

Mountain Iron Fire Department
Call and Mutual Aid Report
2020

Description	Year To Date	Quarter 1			Quarter 2			Quarter 3			Quarter 4		
		Jan	Feb	March	April	May	9-Jun	10-Jun	Aug	1-Sep	2-Sep	Oct	24-Nov
Total Calls	57	4	8	6	4	3	11	8	4	1	8	0	0
Mutual Aid Calls	31	3	3	4	2	2	7	5	1	1	3	0	0
Fire Hours	93	9	13	0	6	5	21	19	6	3	11	0	0
Mt Iron Call Man Hours	124	3	13	9	16	14	30	6	5	0	28	0	0
Mutual Aid Man Hours	243	28	40	17	7	8	41	56	12	6	28	0	0
Total Call Man Hours	367	31	53	26	23	22	71	62	17	6	56	0	0
Mutual Aid Hour %	66%	90%	75%	65%	30%	36%	58%	90%	71%	100%	50%		

Mountain Iron Fire Department
Call and Response Report
2020

Description	Year To Date	Quarter 1			Quarter 2			Quarter 3			Quarter 4		
		Jan	Feb	March	April	May	9-Jun	10-Jun	Aug	1-Sep	2-Sep	Oct	24-Nov
Total Calls	57	4	8	6	4	3	11	8	4	1	8	0	0
False/Canceled Alarms	21	0	7	1	1	1	7	2	1	0	1		
Working Calls	36	4	1	5	3	2	4	6	3	1	7	0	0
FF/Working Calls	141	19	6	18	12	10	12	16	8	2	38		
FF/False/Canc. Alarms	62	0	17	2	3	3	28	6	2	0	1		
Total Responders	303	19	23	20	15	13	40	22	10	2	34	0	0
FF per Call	3.48	4.75	2.88	3.33	3.75	4.33	3.64	2.75	2.50	2.00	4.88		
FF per Working Call	3.91	4.75	6.00	3.60	4.00	5.00	3.00	2.67	2.67	2.00	5.43		
% Member Response	30%	37%	46%	28%	31%	38%	23%	21%	21%	15%	42%		

FF = Firefighter

Roster Total = 13

Craig Wainio

From: Mark Madden
Sent: Tuesday, October 27, 2020 5:32 PM
To: Craig Wainio
Subject: Fwd: MTR OCT 1 - OCT 27 2020.xlsx

First responders report for Council agenda.

Get [Outlook for Android](#)

From: James Hipple <jhipple84@gmail.com>
Sent: Tuesday, October 27, 2020 5:29:53 PM
To: Jim Hipple <jhippie@ci.mountain-iron.mn.us>
Cc: Mark Madden <mmadden@ci.mountain-iron.mn.us>
Subject: MTR OCT 1 - OCT 27 2020.xlsx

Caution: This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Dispatched to 22 responded to 4.

Jim Hipple

COUNCIL LETTER 110220-VIIA

ADMINISTRATION

RESOLUTION NUMBER 24-20

DATE: October 29, 2020

FROM: Craig J. Wainio
City Administrator

Resolution Number 24-20 Authorizing the sale of the G.O. Water Revenue Bonds Series 2020A. The proceeds from the bond sale will be used for the City portions of Well Number 3, Water Tower Refurbishing and Water Filter Replacement. Market conditions along with staff's efforts to raise the City's bond rating have made the issuance of the bonds economically viable.

It is recommended that the City Council adopt Resolution Number 24-20 Authorizing Sale of Bonds as presented.



CITY OF MOUNTAIN IRON

"TACONITE CAPITAL OF THE WORLD"

PHONE: 218-748-7570 • FAX: 218-748-7573 • www.mtniron.com
8586 ENTERPRISE DRIVE SOUTH • MOUNTAIN IRON, MN • 55768-8260

RESOLUTION NUMBER 24-20

APPROVING THE ISSUANCE OF GENERAL OBLIGATION WATER REVENUE BONDS, SERIES 2020A

**BE IT RESOLVED BY THE CITY COUNCIL OF MOUNTAIN IRON,
MINNESOTA** (herein, the "City"), as follows:

1. The City Council hereby finds and declares that it is necessary and expedient for the City to sell and issue its fully registered general obligation water revenue bonds in the total aggregate principal amount not to exceed \$1,350,000 (herein, the "Bonds"). The proceeds of the Bonds will be used to finance a water treatment filter project and a water tower rehabilitation project and to finance the costs of issuing the Bonds.
2. The City Council desires to proceed with the sale of the Bonds by direct negotiation with Northland Securities, Inc. (herein, "NSI"). NSI will purchase the Bonds in an arm's-length commercial transaction with the City.
3. The Mayor and City Administrator are hereby authorized to approve the sale of the Bonds in an aggregate principal amount not to exceed \$1,350,000 and to execute a bond purchase agreement for the purchase of the Bonds with NSI, provided the true interest cost is less than 2.50%.
4. Upon approval of the sale of the Bonds by the Mayor and the City Administrator, the City Council will take action at its next regularly scheduled or special meeting thereafter to adopt the necessary approving resolutions as prepared by the City's bond counsel.
5. NSI is authorized to prepare an Official Statement related to the sale of the Bonds.
6. If the Mayor and the City Administrator have not approved the sale of the bonds to NSI and executed the related bond purchase agreement by April 30, 2021, this resolution shall expire.

DULY ADOPTED BY THE CITY COUNCIL THIS 2nd DAY OF NOVEMBER, 2020.

ATTEST:

Mayor Gary Skalko

City Administrator

COUNCIL LETTER 110220-VIIB

ADMINISTRATION

RESOLUTION 25-20

DATE: October 29, 2020

FROM: Craig J. Wainio
City Administrator

Resolution Number 25-20 approves the plans and call for bids for the refurbishing of the water filter vessel. Plans are included for your consideration.

This project includes the replacement of the drinking water filter vessel. The current vessel is almost 40 years old and has structural failures as outlined in the report. In order to provide clean safe drinking water the deficiencies in the current vessel must be addressed. The City will begin the project as soon as possible upon notifications of funding and completion of the plans and specifications. Background work has been completed through a number of inspections. The City will fund half the project with the IRRRB funding the other half.

It is recommended that the City Council approve Resolution Number 25-20. Once bids are received they will be forwarded to the City Council for consideration.



CITY OF MOUNTAIN IRON

"TACONITE CAPITAL OF THE WORLD"

PHONE: 218-748-7570 • FAX: 218-748-7573 • www.mtniron.com
8586 ENTERPRISE DRIVE SOUTH • MOUNTAIN IRON, MN • 55768-8260

RESOLUTION NUMBER 25-20

APPROVING PLANS AND SPECIFICATIONS AND ORDERING ADVERTISEMENT FOR BIDS

WHEREAS, pursuant to the City Council, the City Engineer has prepared plans and specifications for Improvement Number 19-02, the proposed Filter Vessel improvements and has presented such plans and specifications to the council for approval;

NOW THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF MOUNTAIN IRON, MINNESOTA:

1. Such plans and specifications, a copy of which is attached hereto and made a part hereof, are hereby approved.
2. The City Administrator shall prepare and cause to be inserted in the official paper an advertisement for bids upon the making of such improvement under such approved plans and specifications. The advertisement shall be published for 21 days, shall specify the work to be done, shall state that bids will be received by the City Administrator until 10:00 a.m. on December 4, 2020, at which time they will be publicly opened in the Mountain Iron Room of the Community Center by the City Administrator and engineer, will then be tabulated, and will be considered by the City Council at 6:30 p.m. on December 7, 2020, in the Mountain Iron Room of the Community Center. Any bidder whose responsibility is questioned during consideration of the bid will be given an opportunity to address the council on the issue of responsibility. No bids will be considered unless sealed and filed with the clerk and accompanied by a cash deposit, cashier's check, bid bond or certified check payable to the City Administrator for ten percent of the amount of such bid.

DULY ADOPTED BY THE CITY COUNCIL THIS 2nd DAY OF NOVEMBER, 2020.

Mayor Gary Skalko

ATTEST:

City Administrator

COUNCIL LETTER 110220-VIIC

ADMINISTRATION

CARES FUNDING

DATE: October 29, 2020

FROM: Craig J. Wainio
City Administrator

Staff is requesting authorization to purchase the following items under the CARES Act funding. Justification for these authorization are to limit contact with outside contractors, promote social distancing, working from home and reduce potential contact with contaminated surfaces.

- Truck upgrades for commercial cardboard recycling. \$8,316.80
- 15 refuse cans for parks that can be emptied with a truck. \$7,775.00
- Unity Dr. lift station control panel with remote monitoring. \$25,069.00
- APX4000 radios for distance communications for Fire Dept. \$32,433.00
- No touch light switches for City buildings. \$8,900

This is the conclusion of our cares funding, no funding is left to send to Duluth.



**MACQUEEN
EQUIPMENT**



**MACQUEEN
EMERGENCY**

MacQueen Equipment
1125 7th Street E
St Paul, MN 55106

651-645-5726 • 800-832-6417

Ship To: SAME AS BELOW

Invoice To: CITY OF MOUNTAIN IRON
8586 ENTERPRISE DRIVE SOUTH
MOUNTAIN IRON MN 55768

Branch 01 - ST PAUL MN		
Date 10/21/2020	Time 7:31:00 (O)	Page 1
Account No MOUNT008	Phone No 2187487570	Est No 02 004582
Ship Via SHOP		Purchase Order 4F1020301
Tax ID No		
		Salesperson 159

QUOTE EXPIRY DATE: 11/18/2020

SERVICE ESTIMATE - NOT AN INVOICE

I AM LOOKING INTO LEAD TIMES ON
253-1986-SHP AND 372-6628

Stock #: C034542 4000 REAR LOADER MS #: 4F1020301
Make: HE Model: 4000
Is to have the following work done

INSTALL CONTAINER ROLL BAR AND LIP/LATCH KIT

ADDITIONAL DESCRIPTION:

INSTALL HYDRAULIC ROLL BAR
INSTALL LIP AND LATCH KIT
INSTALL ALL HYDRAULIC COMPONENTS

<u>Part#</u>	<u>Description</u>	<u>Qty</u>	<u>Price</u>	<u>Amount</u>
253-1986-SHP	CONTROL KIT	1		
372-6628	KIT LATCH F4000	1		
031-6267	AUX. VLV SEC	1		
031-3242	RELIEF CARTRIDG	1		
027-4678	TIE ROD KIT	1		

<u>MISCELLANEOUS CHARGES:</u>	<u>Description</u>	<u>Price</u>	<u>Amount</u>
	SHOP SUPPLIES		

Parts:	3213.80
Labor:	4860.00
Miscellaneous:	243.00
TOTAL:	8316.80

Authorization: _____

Tim Satrang

From: Bob Larson <Bob.Larson@macqueengroup.com>
Sent: Wednesday, October 21, 2020 8:28 AM
To: Tim Satrang; Todd Danielson; Steve Brown; Stephen Hudlemeyer; Greg Berg; Bob Larson
Subject: MacQueen Equipment Heil 4000 Lower Bar Install
Attachments: MacQueen Lower bar - Lip Latch Quote.PDF

Caution: This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Tim,

Here is your quote to install lower bar, and Lip& Latch Kit. It's quits the process to cut out for the actual work performed. Parts take about 3-4 weeks to order, and will take about 1 week to perform all of the work.

You will be responsible for delivery and pick up at MQ.

Please advise,

Thanks,

Bob Larson

Regional Sales Manager | MacQueen Equipment Group | www.macqueeneq.com

D. 612.747.4917 | O. 800.832.6417 E. bob.larson@macqueengroup.com



**MACQUEEN EQUIPMENT
GROUP™**

Tim Satrang

From: Deborah Smith <dsmith@wrpcontainers.com>
Sent: Monday, October 19, 2020 1:51 PM
To: Tim Satrang
Subject: RE: Request a quote

Caution: This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good afternoon Tim,

A quick question for you. We sold you the granite finish brownstone cans last time, because we had them readily available in stock. Do you need the granite finish, or would you prefer the plain HDPE units, which we offer in many colors including tan and dark brown options.

Pricing for the granite finish cans has increased substantially and they are now \$ 555.00 per unit, plus freight. The HDPE cans are now \$ 410.00 per unit, plus freight.

Freight for the 15 units will be about \$2,500 direct truck, or \$ \$1,625 for a combo shipment.

Let me know your preference and I will prepare the formal quote document. Thanks!

Regards,
Deborah Smith

National Account Manager – Refuse Products Division

Cell #: 317-450-0920

E-mail: dsmith@snydernet.com
dsmith@wrpcontainers.com



From: Deborah Smith
Sent: Monday, October 19, 2020 12:03 PM
To: 'Tim Satrang' <tsatrang@ci.mountain-iron.mn.us>
Subject: RE: Request a quote

Good morning Tim,

It's great to hear from you. I'm waiting for the freight quote from my logistics team and should have your quote for you before the end of the day.

Caution: This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.



Colors as shown in this document may differ slightly from the actual product.

dsmith@snydernet.com

dsmith@wrpcontainers.com





Duluth - Superior - Twin Cities

711 Hammond Avenue, Superior, WI 54880

t. 715-392-2911 f. 715-392-2995

ehumphrey@dsccommunications.com

QUOTE

Number 102020-06

Date Oct 20, 2020

Pricing Valid for 30 Days

Sold To

Mountain Iron Fire Department
Gerry Knapper
8586 Enterprise Dr S
Mt Iron, MN 55768

Ship To

Mountain Iron Fire Department
Gerry Knapper
8586 Enterprise Dr S
Mt Iron, MN 55768

Phone (218) 780-9738

Email mtnfd605@gmail.com

Phone (218) 780-9738

Email mtnfd605@gmail.com

Salesperson	P.O. Number	Ship Via	Terms
-------------	-------------	----------	-------

Erik Humphrey

Line	Qty	Description	Unit Price	Ext. Price
1		APX4000 P25 Trunking Portable		
2	12	Portable APX4000 7/800 3 Watts 512 Channels	\$3,728.00	\$44,736.00
3	12	Charger IMPRES Desktop Single Unit	\$76.00	\$912.00
4	10	Speaker Microphone APX 3.5MM Jack Volume Emergency	\$145.00	\$1,450.00
5	2	Remote Speaker Mic APX Wireless Bluetooth	\$300.00	\$600.00
6	1	DSC Promo Valid Until December 31st 2020	-\$15,265.00	-\$15,265.00

Ask us about Managed Services, and how we can help you maintain your radio, camera, access control, squad equipment.

SubTotal	\$32,433.00
Tax	\$0.00
Shipping	\$0.00
Total	\$32,433.00

"Upon acceptance by signature or issuance of a purchase order, DSC Communications is authorized to order the equipment for the purpose of sale and delivery to the company or individual named above. Prices are based on market conditions existing at the time and date of quotation and are subject to change before acceptance of order. Delivery times are an estimate only and are contingent upon availability of manpower, materials, and/or customer provided programming information. A 20% re-stocking fee may be applied to any item that is cancelled or refused after acceptance of order. Payment Terms 50% Downpayment, Remainder NET 10 Days."



800 6th Street NW, New Prague, MN 56071

PH: (952) 292-6008

TO: City of Mountain Iron – Tim Satrang
FAX: (218) 748-7573
SUBJECT: Food & Fuel Lift Station – Replacement Control Panel
DATE: October 21, 2020

Quality Flow Systems is offering to sell equipment and services described in this proposal. Our quotation does not include any applicable sales tax. If these conditions do not satisfy your requirements, we will be pleased to requote you accordingly.

BILL OF MATERIALS

Quality Flow Systems, Inc. is pleased to provide a quotation in accordance with your request and as follows:

Our itemized scope of supply is listed below:

Item-B

Lift Station; Duplex Control Panel; Duplex pump control panel for operation on 240 Volt, 3-Phase, 4-Wire, 60-Hz incoming service. The enclosure is double-door; suitable for pad-mounting, NEMA 3X, 304 Stainless Steel, measuring approximately 48"H x 48"W x 12"D on an 18"H skirted leg stand system. Inner dead-front doors, 3-point pad-lockable handle and steel (painted white) component chassis will be provided. 8" X 8" clear space available for future SCADA radio. The system will provide control for two (2) 20 HP KSB submersible pumps in response to wetwell level as sensed by submersible level transducer (primary) and float switches (back-up).

To include:

<u>Qty</u>	<u>Description</u>
1	CB; Main Disconnect; 3P; 240VAC; 200A; Service Entrance Rated
2	PDB; for interconnection of existing Automatic Transfer Switch
2	CB; Pump Disconnect; 3P; 240VAC; 100A
2	Motor Starter; NEMA; sized for pump load; with solid-state OL Relay
1	Breaker; 1P; 10A; (Control Power)
1	Breaker; 1P; 15A; (Convenience Receptacle)
2	Breaker; 1P; 20A; (Generator Crankcase Heater & Battery Charger)
1	Convenience Receptacle; GFI; 15A
1	Phase/voltage monitor
1	Surge Arrestor; 3-Phase
1	Heater; Fan-forced; 200W; Thermostatically controlled
2	Pump Protective Module (Overtemp & Seal Fail); with socket
2	Light-Pilot; P-T-T; 120VAC FV; LED; Green Fresnel Cap (pump running)
7	Light-Pilot; P-T-T; 120VAC FV; LED; Red Fresnel Cap (pump OT, OL, hi level, lo level & back-up)
2	Light-Pilot; P-T-T; 120VAC FV; LED; Amber Fresnel Cap (pump SF)
3	Push Button; (each pump reset, reset back-up)
3	Runtime meter; non-resettable (each pump & simultaneous)
A/R	Control Relay; 3PDT; 120VAC; w/ Indicating Light (includes socket)
1	Ground Lug; 3-Conductor



800 6th Street NW, New Prague, MN 56071

PH: (952) 292-6008

- 1 PLC; QCI Model 1500ct; pump controller; color touchscreen (Primary)
- 1 Symcom Model ISS-105 float controller with intrinsically safe circuit extensions (Back-up)
- A/R IS Barrier for transducer
- 1 Alarm Light; Red; Strobe; 120VAC; (top mounted)
- A/R Terminal Block; Single; 18-10AWG
- A/R UL 698A Serialized label; (Enclosed Industrial Control Panel with IS Circuits)
- 1 Submersible Transducer; 4-20mA Loop powered; 60 ft cable
- 5 Float Switch; Suspended; Non-mercury; 60 ft cable
- A/R Wiring diagrams, bills of material, equipment data sheets, etc.
- A/R Onsite start-up of pump control panel and instrumentation

Total Sell Price for Item-A is \$21,730.00 (plus any applicable taxes)

Option A; for A-B soft-starters instead of motor starters, add **\$5,890.00** to the above price.

Option B; for Mitsubishi VFDs W/ fan kit instead of motor starters, add **\$3,339.00** to the above price.

Exclusions:

- Installation of Control Panel is not included. QFS will supply (1) Pump and (1) Control technician to assist the City supplied electrician install the pump, float, and transducer cables. QFS supplied electrician available upon request.
- City to pour concrete slab (3' X 6') for control panel to sit on. Pricing for concrete slab installed by QFS available upon request
- Automatic Transfer Switch (ATS) is existing.

Proposed Delivery Schedule:

Drawings: 4 to 6 weeks after receipt of order; Delivery: 4 to 6 weeks after approval

Delivery and Storage:

Freight allowed to job site. Off-loading and storage is the responsibility of others.

The above quotation is firm for 30 days and is offered in accordance with terms and conditions of sale. Should there be any questions on the above described equipment, please feel free to contact us at (952)758-9445.

Sincerely,
Quality Flow Systems, Inc

Kevin Huson



Quality Control & Integration, Inc.

Model 1500ct



Pump Controller

Quality Control & Integration is proud to introduce the 1500ct...



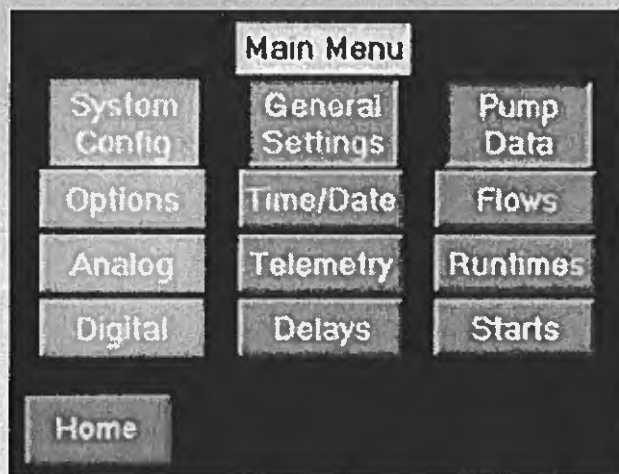
1500ct Home Screen

Feature Summary

- ♦ Large 5.7 inch Touchscreen Color LCD Display
- ♦ Pump Control
- ♦ Historical Trend Data
- ♦ Alarm/Event Log
- ♦ Dynamic I/O
- ♦ Communicates with virtually all PLCs/SCADA Systems
- ♦ VFD Control
- ♦ Security; multi-level
- ♦ Communication Protocols
 - MODBUS
 - Remote Access Utilities
 - Ethernet via TCP/IP
 - GPRS/GSM/SMS Support
 - DF1
 - OPC Server/DDE Server

Details

- ♦ **Telemetry Ready** - with the addition of a radio, cellular modem, or leased phone line, the 1500ct allows you to monitor station status, change pump starts and stop set points, change high and low level alarm set points, acknowledge alarms, and view pump run, fail and performance information remotely.
- ♦ **The 1500ct is an "open" control platform** supporting industry standard communication protocols like Modbus and DF1. This open protocol approach allows the 1500ct to be readily integrated into most new or existing SCADA systems. Two serial communication ports allow for redundant telemetry networks.
- ♦ **Versatile** - The 1500ct can be used to control and monitor up to three constant and / or variable speed pumps in either pump up or pump down mode. This versatility makes the 1500ct able to control even difficult pump applications like pressure / flow controlled booster stations.



Main Menu Screen

Cellular Remote Control - enables operator to receive controller status and acknowledge alarms via cellular text messaging.

Pump Run Data

- ◆ Total runtime
- ◆ Total pump flow
- ◆ Total number of starts
- ◆ Eight continuous days of data

Pump 1	Runtime	Flow	Starts
Today	0.1 Hrs	1.5(KGal)	50
Monday	7.8 Hrs	3.5(KGal)	27
Tuesday	0.8 Hrs	3.6(KGal)	17
Wednesday	1.1 Hrs	4.8(KGal)	20
Thursday	1.0 Hrs	4.1(KGal)	19
Friday	0.9 Hrs	4.2(KGal)	18
Saturday	0.3 Hrs	5.1(KGal)	23
Sunday	1.1 Hrs	5.6(KGal)	38
Total	9.1 Hrs	77897(KGal)	259

Home

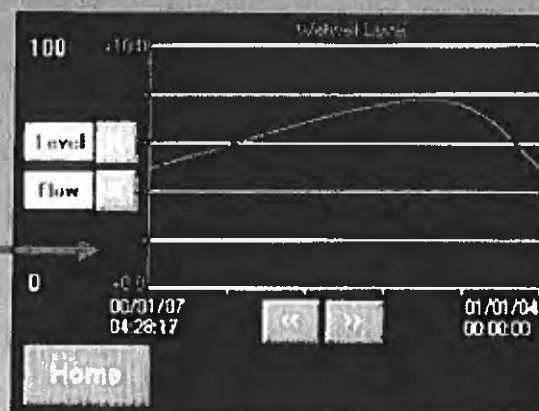
Calculated Flow Statistics

- ◆ Total station flow
- ◆ Average daily flow
- ◆ Maximum daily flow

Individual Pump Data Screen

Trend Data

- ◆ The controller will trend station flow, wet well level, and pump flow performance without a flowmeter.
- ◆ Pump trend data is available for one year.



Volumetric Flow Calculation

The controller can calculate station flows with or without a Flow Meter.

Pump Protection

- ◆ The 1500ct controller will detect failed pumps, and take the failed pump out of service until the failure condition is corrected and reset.

Alarm Control

- ◆ Easily silence audible alarms and reset latching alarm conditions

Time and Date Stamped Alarms

- ◆ Alarm Event Log stores the last 1000 alarm events

Priority	Alarm History	ESC
Group	001	General Collection
ID	015	Pump 1 Fail to Start
Trigger Rise Time	01/11/09 20:37	Duration
Trigger Fall Time	01/11/09 20:37	00:00:05
Ack Time	00/00/00 00:00	
Reset Time	00/00/00 00:00	

...Informative Data; Custom tailored for any Pump Station ...

...Versatile; Allows for control of any Pumping application...

2 Serial ports, Supports MODBUS, and DF1

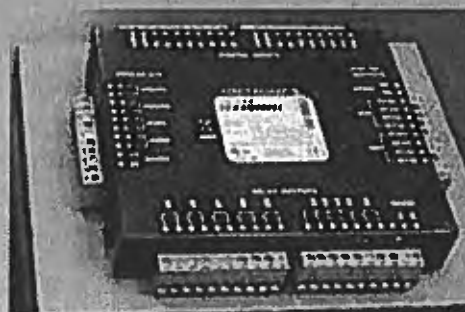
- ♦ Optional Ethernet port

Diagnostics

- ♦ Troubleshoot via the HMI panel- no PC needed

The 1500ct Supports a Wide Variety of Communication Media

- ♦ Ethernet
- ♦ Radio (UHF, VHF, Spread Spectrum, Cellular)
- ♦ Phone line



24 Volt DC Operation

- ♦ Easy to back-up DC power supply with standard batteries

VFD Control and Ramps

- ♦ Control and scale Analog Outputs for virtually any use

Pull-Apart Terminal Blocks

- ♦ For ease of installation & maintenance

Alternation

- ♦ The 1500ct supports multiple modes of operation, configurable through the touchscreen

APPLICATIONS:



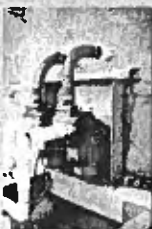
Sewage Lift Pump Station -

Controls pumps based on both level transmitter and float switch control inputs for primary and back up control.



Well Pump Station -

Controls pumps based on pressure/level sensor or remotely monitored tank level.



WWTP Influent or Effluent Pump Station -

Controls pumps based on locally monitored wetwell level. Supports both level transmitter and float switch control inputs for primary and back up control.



Raw Water Pump Station -

Controls pumps based on locally monitored flow rate/pressure/level sensor signal.



Booster Pump Station -

Controls pumps based on locally monitored discharge pressure sensor or remotely monitored tank level.



Transfer Pump Station -

Controls pumps based on locally monitored wetwell level. Supports both level transmitter and float switch control inputs for primary and back up control.

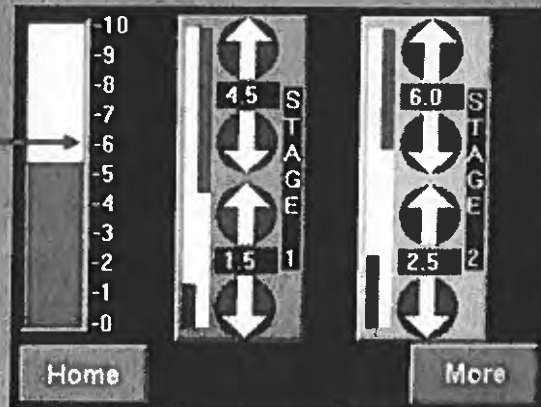


Irrigation Pump Station -

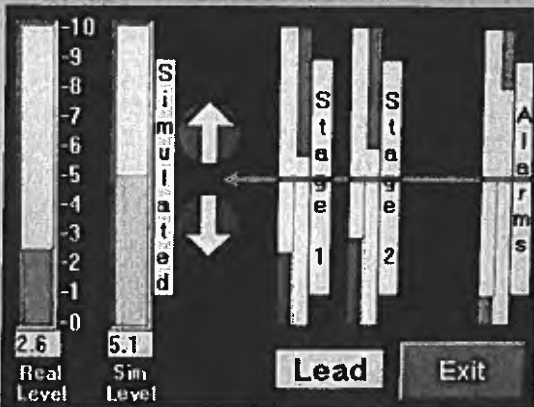
Controls pumps based on local discharge pressure or flow rate.

Custom Scale Ranges

- ♦ Allows you to scale the controller to precisely display the individualized station's data



Setpoints Screen



Simulation Screen

Level Simulation

- ♦ Two simple up/down keys allows an operator to simulate the level and verify proper operation

Security Protection

- ♦ Password Security
- ♦ Prevent unauthorized modification of controller variables
- ♦ Detect unauthorized station access with a door switch input and an operator interface security password
- ♦ Activates local alarm and telemeters unauthorized entry to a central monitoring point

The Security Settings screen shows three password fields: Level 1 Code (1111), Level 2 Code (2222), and Level 3 Code (3333). At the bottom are 'Home' and 'Back' buttons.

Security Screen

...Intuitive, Secure; Straight-forward interface keeps it simple...

...Easy to set-up; Total scalability of Inputs and Outputs

Easy Setup Wizard

- ♦ Guides you, step-by-step, through the basic setup of the 1500ct

Welcome to the 1500CT

This wizard will help guide you through the setup process. Touch the arrow below to begin.



Setup Wizard Screen

Select Number Of Pumps

0

1

2

3



Setup Wizard Screen; Pump Selection

Easy Setup Wizard, cont.

- ♦ Select number of Pumps
- ♦ Choose whether or not pump running inputs and/or pump failure inputs are utilized
- ♦ Setup and scale level sensor

Dynamic Inputs / Outputs

- ♦ Allows the station to be customized to its specific I/O needs
- ♦ Configure 16 inputs from 32 different options
- ♦ Configure 10 outputs from 20 different options

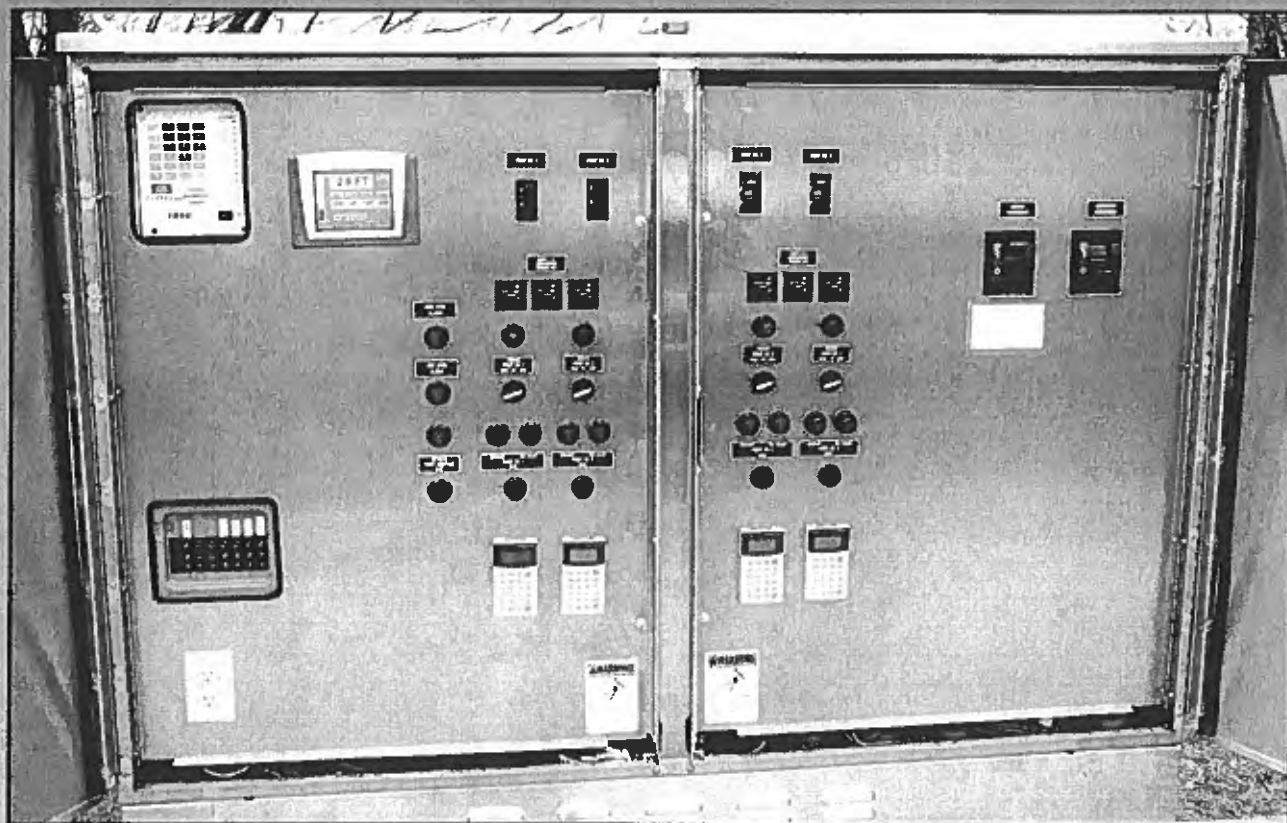
Digital Input 0 [Normally Open] [Change]

P1 Run	P1 Auto	P1 OT	P1 SF
P2 Run	P2 Auto	P2 OT	P2 SF
P3 Run	P3 Auto	P3 OT	P3 SF
Flt Control	Low Float	Off Float	Lead Float
Lag Float	Lag 2 Float	High Float	3 Phase
Cntrl Pwr	Alrm Silnce	Door Sw	Door Ack
Rain Gauge	Gen Run	Gen Alarm	ATS Sw
Pmp Inhibit	P1 Fail	P2 Fail	P3 Fail
Back	Disable	Save	Next

Dynamic Digital Input Screen

Graphic Display Screen	
Display Type	TFT LCD
Colors	256
Display Resolution & Size	320x240 pixels (QVGA), 5.7" active area
Touchscreen	Resistive, analog
Brightness	Adjustable via touchpanel or software
HMI Displays	1024 displays, 500 images per application
Program	
Application Memory	Application Logic: 2MB, Images: 6MB, Fonts: 1MB
Scan Time	9µsec per 1K of typical application
Memory Bits (cells)	4096
Memory Integers (registers)	2048
Long Integers (32 bit)	256
Double Word (32 bit unsigned)	64
Memory Floats	24
Timers	192
Counters	24
Data Tables	120K dynamic data, 192K fixed data
Communication	
RS232/RS485	2 isolated ports, Select RS232 or RS485 via DIP switch
Ethernet	1 port (optional, available separately)
CANbus	1 isolated port
CANopen	CANopen Master, supports PDO, SDO, NMT, CiA DS 301
UniCAN	Multi-master CANbus
MODBUS	Supports MODBUS protocol, Master/Slave
Allen-Bradley DF1	Supports DF1 protocol, Half-duplex Slave
GSM	SMS messages to/from any quantity of phone numbers. Supports programming and data acquisition
GPRS	Use a GPRS modem to establish a data connection via Internet, and transmit IP packets of data over the cellular network, SMS-enabled
General	
PID	Up to 20 independent PID loops, including internal auto-tune, ramp-soak program and bumpless transfer
Info Mode	Troubleshoot, view, and edit system data in real-time - directly from the HMI panel via built-in info mod screens. Supported by remote access
Power Supply	24VDC nominal, 20.4 - 28.8VDC permissible range
Battery back-up	7 years typical at 25°C, back-up for all memory sections & real-time clock (RTC) External battery replacement
Environment	IP65/NEMA4X (for panel, when mounted)
Expansion option	Up to 128 additional I/Os, via plug-in expansion modules (number may vary according to expansion model)
Dimensions	197 x 146.6 x 68.5 mm (7.75" x 5.77" x 2.7")
Standard Snap-in I/O Module	
Digital Inputs (Isolated)	16 (sixteen) pnp/npn Inputs, 24VDC
High-speed (counter) Inputs*	2 (two) 10 kHz pnp/npn Inputs
Analog Inputs	2 (two) 10-bit Inputs, 0-10V, 0-20mA, 4-20mA
Temperature Measurement	Internal
Digital Outputs (Isolated)	4 (four) pnp/npn Outputs, 24VDC
High-speed (PWM) Outputs	2 (two) Transistor Outputs are high-speed outputs, 50 kHz for npn / 2 kHz for pnp
Relay Outputs (Isolated)	10 (ten) SPST-NO relay; 230VAC / 24VDC, 5A resistive; 1A inductive
Analog Outputs	2 (two) 12-bit Outputs, 0-10V, 0-20mA, 4-20mA

*Certain digital inputs can function as high-speed counters, shaft-encoder inputs, frequency measurers



For all of your Pump and Control System needs, contact...

For further information, contact:

Quality Control & Integration, Inc.
 800 6th Street N.W.
 New Prague, MN 56071
Tel: 952-758-9445
Fax: 952-758-9661

Web: www.qc2i.com

Represented by:


Quality Flow Systems, Inc.
 800 6th Street N.W.
 New Prague, MN 56071
Tel: 952-758-9445
Fax: 952-758-9661

Web: www.qfsi.net



**QUALITY CONTROL
&
INTEGRATION, INC.**

Web: www.qc2i.com



QUALITY FLOW SYSTEMS, INC.

800 6th Street North West
 New Prague, MN 56071

PROPOSAL



BID No.	6004MI
DATE	10/28/2020
CUSTOMER ID	CITYOFMTIRON
EXPIRATION DATE	30 Days

www.hometownelectricinc.com

Tim Satrang

[illegible]

SUBTOTAL	\$ 8,900.00
TAX RATE	
SALES TAX	
OTHER	
TOTAL	\$ 8,900.00

To accept this quotation, sign here and return:

DATE _____

COUNCIL LETTER 110220-VIID

ADMINISTRATION

MEETINGS

DATE: October 29, 2020

FROM: Craig J. Wainio
City Administrator

Staff is requesting that the following meetings be scheduled:

- Special Meeting to Canvass Election Results on either Nov 12 or 13.
- COW Meeting to review 2021 Budget prior to December 7, 2020.
- COW Meeting to receive input on the Shared Services presentation.



INDEPENDENT SCHOOL DISTRICT NO. 712

MOUNTAIN IRON-BUHL PUBLIC SCHOOLS

8659 Unity Drive, Mountain Iron, MN 55768

Office (218)735-8271 Fax (218)741-1930

www.MIB.k12.mn.us

Superintendent, Dr. Reggie Engebritson
Director of Teaching and Learning, Kristi Berlin
Principal, Adam Nelson | Dean of Students, Don Burke

September 30th, 2020

Hello, my name is Lilly Hall and I am a student in the Mountain Iron - Buhl Journalism class. In this class we create the MIB yearbook *The Laurentian*. In order to help finance this book, so we are able to keep it at a reasonable price for students, we seek community members to sponsor a page or pages of our book. This is a great way to support our students as well as advertise your business in our book. Sponsoring pages in our book is a great way to show that you care about our community and our school. Your name will appear at the bottom of the page or pages that you'd like to sponsor: "Proudly Sponsored by..."

Due to the current situation in our world with COVID-19, we are trying to be as safe as possible and will not have students personally canvas the community and enter your business to ask for your support. We also know that all businesses and community members are not able to support us at this time. We understand this and thank you for all that you do for our community.

If you are able, we'd love to have your business be part of our yearbook. The cost to sponsor is \$75.00 per page. If you are interested, please send a check written to Mountain Iron-Buhl Yearbook along with the enclosed contract. Thank you for your time and hopefully we will hear from you and your support soon. If you have any questions, please contact my teacher, Mrs. Cathy O'Malley at the information below.

Sincerely,

Lilly Hall

Lilly Hall

MIB Laurentian Yearbook Staff Member

Cathy O'Malley, Yearbook Teacher

Mountain Iron-Buhl High School

8659 Unity Drive

Mountain Iron, MN 55768

218-735-8271, ext. 1040

comalley@isd712.org

SCHOOL BOARD

Chuck Bainter | Jason Gellerstedt | Jeremy Jesch | Lisa Kvas | Jennifer Tiedeman | Jesse White |
Amy Winans



INDEPENDENT SCHOOL DISTRICT NO. 712

MOUNTAIN IRON-BUHL PUBLIC SCHOOLS

8659 Unity Drive, Mountain Iron, MN 55768

Office (218)735-8271 Fax (218)741-1930

www.MIB.k12.mn.us

Superintendent, Dr. Reggie Engebritson

Director of Teaching and Learning, Kristi Berlin

Principal, Adam Nelson | Dean of Students, Don Burke



MIB Journalism Class Members:

Grade 10: Samantha Hoff, Braylen Keith, Adrien Knapper, Lena Morgan, Alix Swanson

Grade 12: Tessa Couture, Owen Frosaker, Lukas Madson, Aric Marks, Sidney Mattila, Paris Pontinen, Hunter Shaleen, Hanna Suomala, Ebony VanAnda

Distance Learners: Grade 11-Lilly Hall, Grade 10-Kaylee Chessier, and Jakson Meffert

SCHOOL BOARD

**Chuck Bainter | Jason Gellerstedt | Jeremy Jesch | Lisa Kvas | Jennifer Tiedeman | Jesse White |
Amy Winans**



INDEPENDENT SCHOOL DISTRICT NO. 712

MOUNTAIN IRON-BUHL PUBLIC SCHOOLS

8659 Unity Drive, Mountain Iron, MN 55768

Office (218)735-8271 Fax (218)741-1930

www.MIB.k12.mn.us

Superintendent, Dr. Reggie Engebritson

Director of Teaching and Learning, Kristi Berlin

Principal, Adam Nelson | Dean of Students, Don Burke



Thank you!

SCHOOL BOARD

Chuck Bainter | Jason Gellerstedt | Jeremy Jesch | Lisa Kvas | Jennifer Tiedeman | Jesse White |
Amy Winans