

Procurement Department

495 Upper Falls Blvd Rochester, NY 14605 585-329-2012 procurementRHA@rochesterhousing.org

IFB139043 Fire Pump Replacement at University Tower

ADDENDUM NO. 1
February 2, 2017
This Addendum consists of six (6) pages: this acknowledgement and five (5) pages of information.
Acknowledgement:
I have received this Addendum # 1 and have used it in the calculation/preparation of this proposal.
Firm

This acknowledgement must be submitted with your proposal or it may be rendered invalid.



Rochester Housing Authority University Tower Fire Pump Replacement HUNT 2285-051

The following Addendum (Addenda) shall be considered a part of the contract documents prepared by HUNT ENGINEERS, ARCHITECTS & LAND SURVEYORS, P.C. dated January 23, 2017.

Architectural ADDENDUM No. 1

Date: February 1, 2017

Documents Issued by this Addendum:

Recent fire pump test on existing system.

Clarifications issued by this Addendum:

- Contractor will be responsible for all coordination with RG&E if electrical shutdown is required. All feasible RG&E fees will be paid for by Rochester Housing Authority.
- Harold Zink Contact information for building access (585) 370-7074
- Contractor will provide new electrical connection between fire pump and fire alarm panel located in first floor lobby. Wire to be ran in ½" conduit for protection.
- Refer to Figure 3 in Attachment A: Existing 6" check valve will remain.

End of Addendum



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Hamel Powerflow, LLC P.O. Box 495 Ontario, NY 14519 TEL (585) 737-6782 FAX (585) 672-6157

E-MAIL: chamel@hpflow.com

F M APPROVED

ANNUAL FIRE PUMP INSPECTION AND TEST REPORT

SERVICE ORDER #: 2016176 DATE: 8/19/16

CUSTOMER: Rochester Housing Authority CONTACT: Mark Polfleit

ADDRESS : University Tower

625 University Ave. PHONE: (585) 232-5555 Rochester, NY 14607 FAX: (585) 232-7827

CONTRACT P/O #: F60809012-1-JCW E-MAIL: <u>mapolfleit@ryanservice.com</u>

PUMP	Aurora	3-481-10	71-80510
DRIVER	Louis Allis	COG4B 25HP/256T/200V	219195-2
CONTROL	Clark	10663	258389-1-1
GEAR DRIVE	NA	NA	NA
JOCKEY PUMP	Aurora	I4-BF	C71-10282
DRIVER	Marathon	9K145TTDR7926ABW	915617
CONTROL	Clark	10661	258389-2-1

START/ STOP PRESSURE SETTINGS: RUN PERIOD TIMER:

FIRE PUMP: ON @ 89 PSI OFF @ 95 PSI ENABLED @ 10 MINUTES

JOCKEY PUMP: ON @ 103 PSI OFF @ 118 PSI NA

SYSTEM: Sprinkler LOCATION: Pump Room

PUMP DESIGN: 500 GPM @ 136.2 TDH 59 PSI 3520 RPM 23 BHP

MAX BHP

ightharpoons

UL LISTED

SUPPLY PRESSURE: 52.6 PSI SOURCE: Municipal DRIVER TYPE: Electric

25.7

COMMENTS:

B 1.0 - Pump packing leaking excessively - recommend rebuilding rotating assembly.

PSI @ 150 %

B 2.0 - Vibration from pump.

69.8 PSI @ CHURN

- B 3.0 Pump casing relief valve not operating consistently pump casing and packing at risk for overheating.
- B 6.0 Auto air release valve leaking.
- B 7.3 Pump suction control valve located in adjacent trash room valve location should be tagged on pump suction line.
- C 2.0 Power available pilot lamp out on main controller. Run period timer wiring disconnected and capped off (disabled). Max temp 149 deg. F @Pump thrust bearing (normal) - Amb. Temp - 84 deg. F.

COMPLETED BY: Chuck Hamel DATE: 8/19/16 PAGE 1

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FIRE PUMP INSPECTION AND MAINTENANCE REPORT

COMPLETED TASK CHECKLIST

ALL "NO" ENTRIES FULLY EXPLAINED UNDER COMMENTS

YES	NO	N/A	DESCRIPTION
			A. PUMP ROOM INSPECTION :
V			1.0 PUMP ROOM SECURED
<u> </u>			2.0 PUMP ROOM TEMPERATURE ABOVE 40 F / 70 F DIESEL WITHOUT HEATER
			3.0 VENT LOUVERS OPERATE PROPERLY
		V	3.1 VENT LOUVERS INTAKE CLEAN
□			4.0 ADEQUATE LIGHTING
			B. PUMP / PIPING SYSTEM INSPECTION :
П	V		
	<u>.</u>		1.0 SHAFT SEALS DRIPPING WATER AT PROPER RATE (30-60 DROPS/MIN.)2.0 SYSTEM FREE OF VIBRATION AND UNUSUAL NOISE
□			
	□		3.0 PACKING, BEARINGS AND PUMP CASING FREE OF OVERHEATING 4.0 CASING RELIEF VALVE OPERATIONAL
			4.0 CASING RELIEF VALVE OPERATIONAL 4.1 SYSTEM PRESSURE RELIEF VALVE PROPERLY ADJUSTED :
Ш	Ш	Ľ	
V			SET @ PSI 5.0 PUMP OPERATIONAL WITHOUT ABNORMALITIES
Ш	¥	Ш	6.0 VALVES, FITTINGS AND PIPING LEAK TIGHT
			7.0 SYSTEM VALVE CONDITION:
~			7.1 CONTROL VALVES SEALED IN CORRECT POSITION
		✓	7.2 BYPASS OPEN
	~		7.3 VALVES ACCESSIBLE
V			7.4 VALVES IDENTIFIED
		~	8.0 LUBRICATION OF SHAFT COUPLING PERFORMED
			LUBRICANT ID :
~			9.0 LUBRICATION OF PUMP BEARINGS PERFORMED
			LUBRICANT ID Lithium EP2
V			10.0 LUBRICATION OF ELECTRIC MOTOR BEARINGS PERFORMED
			LUBRICANT ID Exxon Polyrex EM
		V	11.0 LUBRICATION OF RIGHT ANGLE GEAR PERFORMED
			LUBRICANT ID

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Addendum 1 IFB139043 Page 4 of 6



FIRE PUMP INSPECTION AND MAINTENANCE REPORT

COMPLETED TASK CHECKLIST

ALL "NO" ENTRIES FULLY EXPLAINED UNDER COMMENTS

YES	NO	N/A	DESCRIPTION	
			C. GENERAL CONTROLLER INSPECTION :	
		~	1.0 EMERGENCY SOURCE ISOLATION SWITCH CLOSED	
	~		2.0 NORMAL PHASE ROTATION OR POWER AVAILABLE PILOT LIGHT (ON
		V	3.0 ALARM INDICATING PILOT LIGHTS OFF	
V			4.0 AUTOMATIC START FUNCTION:	
V			4.1 PRESSURE DROP	
		V	4.2 FLOW SWITCH	
		V	4.3 DELUGE / PREACTION	
~			4.4 AUTOMATIC STOP FUNCTION	
~			5.0 MANUAL START FUNCTION	
~			5.1 MANUAL STOP FUNCTION	
		V	6.0 REMOTE START FUNCTION	
		V	6.1 REMOTE STOP FUNCTION	
~			7.0 EMERGENCY MECHANICAL START	
			D. DIESEL ENGINE SYSTEM INSPECTION :	
		V	1.0 BATTERIES FULLY CHARGED	
			BATTERY # 1: VOLTS BATTERY # 2:	VOLTS
		~	1.1 OIL LEVEL AND PRESSURE NORMAL	PSI
		V	1.2 COOLANT LEVEL AND TEMPERATURE NORMAL	Deg. F
		V	1.3 COOLING WATER FLOW AND PRESSURE NORMAL	PSI
		V	1.4 ELECTROLYTE LEVEL IN BATTERIES NORMAL	
		~	2.0 FUEL LEVEL 2.1 FUEL PRESSURE	PSI
		~	3.0 BATTERY PILOT LIGHTS ON AND FAILURE ALARM LIGHTS OFF	
		~	4.0 ENGINE FREE OF FLUID LEAKS	
		V	5.0 ENGINE RUN TIME METER WORKING	HRS:
			E. JOCKEY PUMP	
		V	1.0 PILOT LIGHTS OPERATIONAL	
_			2.0 AUTOMATIC START FUNCTION	
▽			2.1 AUTOMATIC STOP FUNCTION	
<u> </u>			3.0 MANUAL START FUNCTION	
▽			3.1 MANUAL STOP FUNCTION	
~			4.0 PUMP OPERATIONAL WITHOUT ABNORMALITIES	
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FIRE PUMP PERFORMANCE DATA

SYSTEM: Sprinkler LOCATION: Pump Room

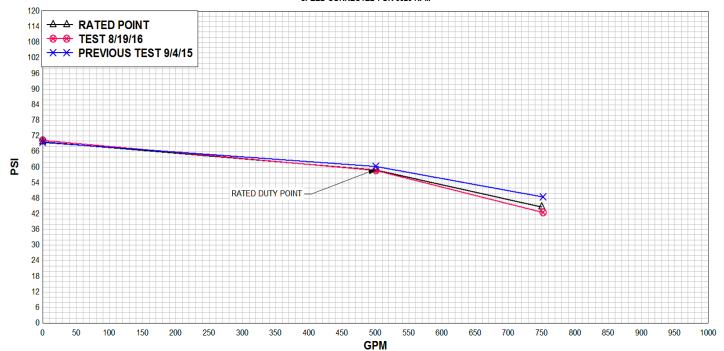
PUMP DESIGN: 500 GPM @ 136.2 TDH 59 PSI 3520 RPM 23 BHP

69.8 PSI @ CHURN 44.6 PSI @ 150 % 25.7 MAX BHP ☑ UL LISTED ☑ F M APPROVED

SUPPLY PRESSURE: 52.6 PSI SOURCE: Municipal DRIVER TYPE: Electric

TEST METHOD: Hose Stream NOZZLE SIZE: 1-3/4"

SPEED CORRECTED FOR 3520 RPM



GPM	0	501	752
# OF NOZZLES	0	1	2
PITOT PSI	0	32	18
SUCTION PSI	52.2	48.2	43.8
DISCHARGE PSI	122.5	106.9	86.3
NET PSI	70.3	58.7	42.5
NET TDH	162.3	135.5	98.1
RPM	3562.4	3514.4	3493.1
VOLTS (AB-BC-AC)	209	208	208
AMPS (L1,L2,L3)	34.5	65.3	73.8
	CHURN	50%	100%



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