

CITY OF ANTIGO
PUBLIC WORKS COMMITTEE
MINUTES OF MEETING HELD
AUGUST 24, 2016

Public Works Committee of the City of Antigo met in Regular Meeting on the above date at 6:00 PM in the Multi-Purpose Room, City Hall, Ward 2 Jim Darling presiding.

Attendee Name	Title	Status	Arrived
Joe Kapusta	Ward 1	Absent	
Jim Darling	Ward 2	Present	
Carol Feller Gottard	Ward 5	Present	
Red Turney	Ward 6	Present	
Dan Bauknecht	Ward 9	Absent	

Others in attendance: Bob Piskula, Street Commissioner; Eric Roller, Director of Public Safety; Mark Desotell, Director of Administrative Services; Tommy Horswill, Infrastructure Alternatives; Terry Schulz, Schulz Heating and Cooling; and Jaime Horswill, Utility/Clerical Assistant.

Discussion and Action May Occur on Any of the Following Agenda Items:

1. Request to Waive Bidding Process and to Consider Proposal from Schulz Heating and Cooling for the Replacement of the Existing Air Handling Unit Serving the Lab at the Wastewater Treatment Plant

Mr. Desotell indicated that there is a specific air handler unit not only for heating and cooling but for air exchange. Staff has advised it is time for replacement, not repair.

Mr. Desotell advised that this is not a budgeted item, however it is recommended to transfer the money from the driveway upgrade fund.

Mr. Desotell requested to waive the bidding process as other local contractors were unable to put a proposal forward. The Trane firm was consulted (who completed an energy audit earlier for the City) and was not able to put a proposal together.

Aldersperson Darling advised that he does not like waiving the bidding process, however, he understands there was an attempt for bids. Aldersperson Turney agreed.

Mr. Desotell further advised that staff is currently leaving the door open from the lab, which should be isolated for air quality control. Heating season is quickly approaching and staff would rather not continue to leave the lab door open.

Upon inquiry by Aldersperson Feller Gottard, Mr. Desotell indicated that the heating and cooling system is a replacement, however, the air exchange system is new.

Terry Schulz, Schulz Heating and Cooling, advised that previous systems had an exhaust system that would bring in outside air, which then needs to be heated or cooled. When it is -5 outside it takes a lot of energy to heat that air. Using a heat recovery system would recover 75-80% of the heat back making it affordable to run the ventilation. Hydrogen sulfide would cause corrosion in the building and to help eliminate that, they utilized the exhaust system, which was not affordable to run. The new system has a large and small unit that will make the system more economical to use.

Motion to waive bidding process and approve the proposal from Schulz Heating and Cooling for the replacement of the existing air handling unit serving the lab at the Wastewater Treatment Plant with funding to be transferred from the budgeted Wastewater driveway upgrade fund as presented.

RESULT:	RESOLUTION TO COUNCIL [UNANIMOUS]
	Next: 9/14/2016 6:00 PM
MOVER:	Red Turney, Ward 6
SECONDER:	Carol Feller Gottard, Ward 5
AYES:	Jim Darling, Carol Feller Gottard, Red Turney
ABSENT:	Joe Kapusta, Dan Bauknecht

2. Fleet Farm Meter

Bob Piskula, Street Commissioner, advised that years ago there were numerous places within the City that had hydrant hook ups. This practice has since been stopped except for Fleet Farm. Fleet Farm hooks onto the hydrant for usage within the outside garden center, utilizing a meter, backflow, valve and hose.

Mr. Piskula advised that the City has sent out letters advising that fire hydrants are meant to fight fires. They can be temporarily used, like at the fairgrounds. The fairgrounds are charged \$35 each time they hook up temporarily.

Mr. Piskula noted that Fleet Farm was upset and previously ran a hose from behind their building up over the top of the roof and out to the front outside garden center. They have not fixed the problem and the City has continued to hook up to the fire hydrant. This year there was an incident when the hydrants and fire flows were tested and all of the City's equipment (approximately \$3,000) was gone. It has since been recovered.

Upon inquiry by Alderperson Darling, Mr. Piskula advised that the fire inspection company removed the equipment and informed Mr. Piskula that it should not be on the hydrant.

Mr. Piskula advised that he will be writing a letter to Fleet Farm by spring instructing them that they need to plumb an outside faucet to the front of the building for use at the garden center.

Mr. Piskula has spoken to Roger Musolff, Building Inspector, who also advised that this is not code and further noted that it should not be a difficult task as the bathrooms are located in the front of the store as well.

INFORMATION ONLY

3. Request for Four Way Stop Sign at Seventh Avenue and Dorr Street

Alderperson Feller Gottard is concerned with this intersection as children live in the area and walk to and from elementary schools for band class. She is requesting a four way stop at Seventh Avenue and Dorr Street.

Upon inquiry by Alderperson Darling, Eric Roller, Director of Public Safety, advised that there have been three accidents at this corner within the past five years. There have been six accidents on Edison Street and Dorr Street and three accidents at Clermont Street and Seventh Avenue during the same five year time period. The school is more interested in a four way stop at Clermont Street and Seventh Avenue. Chief Roller believes if anything is to be done, that it would be more beneficial for a four way stop sign at Edison Street and Seventh Avenue as it is more congested at this location. Even at this location, six accidents within the past five years is not a significant amount. He is against the Dorr Street and Seventh Avenue location as he does not believe this will help.

Mr. Desotell suggested waiting until school is back in session so the Police Department and the school will have time to review the situation.

Chief Roller advised that he or staff meet with the schools quarterly to discuss safety concerns. Last year the Police Department gave old hand held stop signs to the teachers at the middle school for use for traffic control before and after school as needed.

RESULT:	TABLED [UNANIMOUS]
	Next: 10/26/2016 6:00 PM
AYES:	Jim Darling, Carol Feller Gottard, Red Turney
ABSENT:	Joe Kapusta, Dan Bauknecht

Any Other Matters Authorized by Law to be Considered

NONE

Adjournment

1. **Motion to:** Adjourn at 6:20 pm

RESULT:	CARRIED [UNANIMOUS]
MOVER:	Jim Darling, Ward 2
SECONDER:	Red Turney, Ward 6
AYES:	Jim Darling, Carol Feller Gottard, Red Turney
ABSENT:	Joe Kapusta, Dan Bauknecht

Jim Darling, Chairperson

Date



To: Mayor and City Council

From: Mark Desotell, Director of Administrative Services

Date: August 24, 2016

Re: Request to Waive Bidding Process and to Consider Proposal from Schulz Heating and Cooling for the Replacement of the Existing Air Handling Unit Serving the Lab at the Wastewater Treatment Plant

The existing 5-ton roof-mounted air handling unit serving the lab at the wastewater treatment plant needs to be replaced as it currently has failed. Estimates for its repair along with its age/condition dictate the replacement of the unit. In researching our replacement options, it was noted that the design criteria for the lab requires exchanging the air for quality purposes at a rate of 1 cubic foot per minute (cfm) per square foot of floor space (Approximately 700 cfm required based on the size of the lab). The existing HVAC system is inefficient as there is no heat recovery capability and the exchange rate for air quality causes air in the lab space to be “turned over” at a rate of +/- 8 times per hour.

Staff from IAI and the City engaged several local contractors to research a system that would continue to address the air quality standards while providing greater energy efficiency. Additionally, we also engaged an outside vendor to solicit an engineered solution; they were unable to meet the time-frame needed to get the unit replaced prior to the upcoming heating season. One vendor declined due to current workload; another was not able to provide a 2-stage unit and the third provided a systems engineer to visit the plant. The system being proposed by staff from IAI and the City is the engineered solution option.

The proposed system will convert the design from a roof top mounted unit to a gas-fired plenum mounted unit above the suspended ceiling near the lab. A condenser will remain on the roof. The proposed replacement will be more efficient, provide a heat recovery system and operate with lab occupancy sensors reducing the overall amount of energy consumed. This system will also help to assure compliance with an additional criteria required for maintaining lab temperatures at a constant rate with only a degree or two of fluctuation. Continued reliance on the building’s boiler to provide re-heat through a coil was ineffective at balancing lab temperatures. Finally, an air exchange rate of 200 cfm during unoccupied periods in the lab will help reduce the corrosive effects to other features.

I am asking the Committee to provide an exception to the bidding process under the Special Purpose portion of the City’s Purchasing Policy, to transfer the 2016 budgeted Wastewater CIP funds of \$20,000 (Item WWI-16 Driveway Upgrade) for this purpose and to approve the quote (see attached) from Schulz Heating and Cooling in the amount of \$18,150 to replace the current system.

Schulz Heating & Cooling Ltd.
Commercial, Industrial, Farm & Home

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*Member of the Wisconsin Geothermal Association
 International Ground Source Heat Pump Association (IGSHPA) Accredited
 North American Technician Excellence (NATE) Certified in Ground Source Heat Pumps*

Mark Desotell
 Director of Administrative Services
 700 Edison Street
 Antigo, WI 54409

25 July 2016

Waste Water Treatment Plant Office Lab HVAC;

We propose to provide a highly efficient system for this area and alleviate problems with the current system. The first problem listed was the corrosion present that is associated with the waste water treatment plant. The previous ventilation systems relied solely on exhaust with outside air being pulled into the lab, but this system was not used, either due to the high cost of operating the exhaust, and, or the inability of the system to handle the temperature variations of the outside air being introduced into the small 750 sq. ft. lab. Some corrosion is present in the area, attributable to lack of ventilation into the lab/office area. Designing large amounts of exhaust/fresh air is non-productive if the costs of operation or temperature swings in the occupied area are not reasonable.

To provide adequate ventilation, we are proposing to provide a 700 cfm air to air Heat Recovery Ventilator that can recover up to 80% of the temperature difference between outgoing and incoming air. This heat recovery unit, HRV, will operate as the occupied ventilation, either by timer or light switch for the 1 cfm per square foot during occupied times. During unoccupied times, ventilation will switch to a 200 cfm HRV to maintain 24 hour, 7 days a week ventilation which will prevent buildup of corrosive fumes in the lab area.

Heating and cooling will be provided by a very high efficiency 2 stage 95% furnace mounted above the ceiling of the break area/restrooms with the high efficiency condenser on the roof. The current RTU has a gas efficiency of less than 80% and a cooling efficiency of an estimated 8 SEER, while the new cooling unit will be a 17 SEER unit, consuming less than half the electricity. New insulated metal duct will replace the dilapidated and ill-fitting fiberglass duct present. Existing grilles and registers will be cleaned and installed back in place.

We will remove the existing RTU and install a permanent insulated cap over the curb. The required openings for fresh air will be installed through this cap and existing exhaust curbs will be utilized as necessary.

Installed cost of new system and duct; \$18,150.00.

This system is very similar to the system we designed and installed at the street department several years ago. The problem with that system was the office was extremely negative on air,

Attachment: Antigo Waste Water Plant Lab, HVAC Replacement - August 2016 (1110 : WWTP Air Handling Unit Replacement)

which pulled the vehicle exhaust and dirt in from the truck and equipment garage, resulting in the office walls and ceiling tile needing to be cleaned, painted, and tiles replaced on an annual or every few year basis. By providing a balanced intake exhaust ratio, purposely keeping the office slightly in positive pressure, the problem was alleviated. By using the heat exchange, and utilizing high efficiency equipment, estimated heating savings was in excess of 30%.

Corrosion is a major concern in this application; employee welfare is also, as always a consideration. With this system, both issues are addressed as well as efficiency. The operation of the exhaust and fresh air will be economical to operate at the 700cfm level, when the lab is in use, plus the second, smaller 200cfm HRV will maintain fresh air and exhaust on a lower level when the 700cfm HRV is not operating. Both HRV's recover approximately 80% of the energy or heat being removed from the interior area into the Make Up Air.

Acceptance of Proposal;

The above price, specifications, and conditions are satisfactory and are hereby accepted. I understand that a payment of 50% of the entire installation cost is due before work will begin. I also understand that payment of the balance is due in full upon completion of the installation, if payment is not made in full I will be subject to finance charges and/or legal fees and/or be pursued through all legal measures to collect the balance due. I understand the aforementioned and approve the installation by Antigo Refrigeration & Heating Ltd. D.B.A. Schulz Heating & Cooling Ltd.

Signature Approving Installation: _____ Date:_____



To: Mayor and City Council
From: Bob Piskula, Street Commissioner
Date: August 24, 2016
Re: Fleet Farm Meter

Water meter hook up at fleet farm against pse rules was told in the past to allow. We have been doing it. We have not allowed it for others and this year we had some thing happen would suggest we stop hooking up and they would have to add correct plumbing