

DATE: January 3, 2017

REQUEST FOR PUBLIC WORKS COMMITTEE ACTION

File Number: 2017-0003

Orig. Department: Village Clerk

File Name: Approval of the December 5, 2016 Public Works Minutes

BACKGROUND:

BUDGET IMPACT:

REQUESTED ACTION:

I move to approve the Minutes of the Regular Meeting of the Public Works of December 5, 2016.

REQUEST FOR PUBLIC WORKS COMMITTEE ACTION

File Number: **2017-0013**
Orig. Department: **Public Works Department**
File Name: **Alternative Fuel Program - Recommendation**

BACKGROUND:

For many years, the Village Board has pursued green initiatives in an effort to promote sustainability. One of these efforts includes the implementation of renewable energy and efficiency initiatives. With regards to fleet vehicles, the Village Board has consistently approved the purchase of fuel efficient vehicles such as the Ford Focus & Escape which run on regular gasoline. Additionally, the Village purchases bio-diesel to fuel diesel engine vehicles and equipment (bio-diesel is more fuel efficient than gasoline). However, due to the continually rising cost of fuel and the international emphasis on reducing carbon emissions, the Village continues to evaluate various alternative fuels that may enable our fleet to be more efficient while producing lower overall emissions that reduce our negative impact (carbon footprint) on the environment.

Over the past year, staff has evaluated a number of alternative fuel options including propane gas and compressed natural gas (CNG) and it has been determined that propane is the most efficient. Propane gas, also known as Liquefied Petroleum Gas (LPG) and Propane Autogas, has been used worldwide as a vehicle fuel for decades. Interest in propane as an alternative transportation fuel stems mainly from its domestic availability, high-energy density, clean-burning qualities, and relatively low cost. It is the world's third most common transportation fuel and is considered an alternative fuel under the Energy Policy Act of 1992.

Propane is stored onboard a vehicle in a tank that is pressurized to roughly 150 pounds per square inch-about twice the pressure of an inflated truck tire. Under this pressure, propane becomes a liquid with an energy density 270 times greater than the gaseous form. Propane has a higher octane rating than gasoline, which reduces instances of engine knock. However, propane has a lower BTU rating than gasoline, so it takes more propane fuel to drive the same distance. Propane is less expensive than regular fuel and its clean burning characteristics allow the vehicle engine to have an increased service life.

In 2015, the Village was approached by Alternative Fuel Supply (AFS), LLC of Schaumburg, Illinois, a Liquid Propane Gas provider, regarding an alternative fuel program. The turnkey program would reduce the Village's need and dependence on gasoline and provide the Village an immediate return on investment with little upfront cost. Staff evaluated AFS and in order to provide a reasonable comparison, compared their proposal to other organizations. The City of Springfield, IL, recommended staff to engage in conversations with ICOM, LLC. ICOM is strictly a conversion kit company that partners with a liquid propane fueling company (Heritage FS) to provide a similar program.

REQUEST FOR PUBLIC WORKS COMMITTEE ACTION

Staff compared each of the companies' proposals and evaluated the options for the Village.

Option 1: Alternative Fuel Supply, LLC

- AFS would absorb nearly all of the upfront infrastructure and conversion costs. The cost to Village will be \$22,000.
- Cost of fuel would be higher than other company but fixed. Cost of propane will be 50 cents less than regular gasoline.
- 42 vehicles within the police department, which has highest gasoline usage, would be converted.
- Village would realize immediate savings.

Option 2: ICOM & Heritage FS, Inc.

- Village to absorb infrastructure and conversion costs.
- Village to work with separate propane provider with an approximate cost of \$30,000.00 which does not include installation cost. Total costs would be \$239,850.00.
- Fuel is less expensive, but would fluctuate based on "Current Fill Price" and as market conditions change.

Due to the minimal upfront cost to the Village and the near immediate return on investment, staff recommends beginning negotiations with AFS, LLC to design an Alternative Fuel Program that best fits the Village needs.

The Village will hear a presentation by representatives from AFS of Schaumburg, IL. The presenters will discuss alternative fuels that may be available for a variety of fleet applications in addition to answering any questions regarding their proposal.

BUDGET IMPACT:

None

REQUESTED ACTION:

I move to recommend to the Village Board to Authorize Village staff to proceed with alternative fuel program/implementation negotiations with Alternative Fuel Supply, LLC (AFS) of Schaumburg, IL.

REQUEST FOR PUBLIC WORKS COMMITTEE ACTION

File Number: **2017-0011**
Orig. Department: **Public Works Department**
File Name: **Civic Center Emergency Boiler Repair - Proposal**

BACKGROUND:

The Civic Center uses two redundant boilers that provide heat to the facility during the winter months. During a recent inspection, staff discovered that one of the two 28-year-old boilers was leaking water. The boiler was immediately taken off-line to be evaluated.

Staff contacted Cleaver Brooks of Elk Grove Village, IL, the original manufacturer of the boiler, to evaluate the boiler leak. Cleaver Brooks found that one of the internal water tubes was cracked and needed to be repaired in order to successfully operate the boiler.

Two proposals for repair work were received by staff. Hudson Boiler & Tank Co. of Lockport, IL submitted a proposal for \$5,294.00 to complete the repair work and Cleaver Brooks of Elk Grove Village, IL submitted a proposal for \$7,398.00. Based on the proposals submitted, staff contracted with Hudson Boiler & Tank Co. of Lockport, IL to perform the emergency repair work for \$5,294.00.

The 28-year-old units are approaching the end of useful life. To sample the market with the anticipation of replacing the aged units in the future, staff solicited proposals for replacing the units. From the information received, replacement of the two boilers would range anywhere from \$65,000 to \$95,000. To provide some assurance that boiler repair made more fiscal sense than replacement, staff asked our energy performance contractors, CTS Group of Chicago, IL to offer their analysis of repair vs replacement of the boiler units. CTS confirmed that \$5,294 was an acceptable expense for repairs to this boiler and also mentioned that performing the repair now would allow the Village time to evaluate and select the appropriate replacement boilers in the future.

BUDGET IMPACT:

Sufficient funds are available in the Civic Center budget account 021-1800-443100 to cover the cost for this emergency repair.

REQUESTED ACTION:

I move to recommend to the Village Board to approve a not-to-exceed payment of \$5,294.00 to Hudson Boiler & Tank Co. of Lockport, Illinois, for emergency boiler repair work performed at the Civic Center.

REQUEST FOR PUBLIC WORKS COMMITTEE ACTION

File Number: **2017-0014**
Orig. Department: **Public Works Department**
File Name: **143rd Street Metra Station Stairs - Design Engineering Amendment - Proposal**

BACKGROUND:

The pedestrian platform located at the 143rd Street Metra station provides ADA compliant access for commuters from several directions. However, many pedestrians entering at the north end of the Metra station have continued to access the platform across a steep sloped grassy area between the pedestrian path and the platform. Staff has received calls from resident commuters requesting the construction of stairs across this area to provide more convenient and safer access.

In June of 2015, staff contacted Metra and arranged an on-site meeting to discuss the concept of constructing stairs at this location and the various nuances of the project. In October of 2015, in response to Metra's feedback, the Village engaged Baxter and Woodman, Inc. of Mokena Illinois to deliver engineering and design services at a cost not to exceed \$13,840.00. A plan was prepared and submitted to Metra for review and permitting. Upon Metra's review of the submitted documents, additional revisions were requested. One of the requested revisions would involve the construction of an ADA compliant ramp adjacent to the proposed stairs. This requirement would raise the cost of construction to an impractical amount for the Village. In addition to the increased construction cost of this ramp and the associated retaining walls, introducing ramps into the proposed improvement resulted in the need for additional design and engineering.

Following several months of negotiation, Metra has recently agreed to construct the stairs and ramp, at their expense, contingent on the Village providing complete and approved engineering plans. To facilitate this contingency, staff requested an amended proposal from Baxter and Woodman for revised engineering documents including the adjacent pedestrian ramp and retaining walls.

An amended proposal was received from Baxter & Woodman, Inc. of Mokena, Illinois in the amount of \$23,500.00 for additional design and engineering. After reviewing the proposal, staff has determined that Baxter & Woodman would provide thorough and professional service along with continued valuable experience working with Metra on this project. As such, staff recommends approving the proposal from Baxter & Woodman for an amended amount not to exceed \$37,340.00 (\$13,840.00 plus \$23,500.00).

BUDGET IMPACT:

Funds for this engineering and design work are available in the Capital Fund 282-0000-471250.

REQUESTED ACTION:

I move to recommend to the Village Board to accept the proposal from Baxter &

DATE: January 3, 2017

REQUEST FOR PUBLIC WORKS COMMITTEE ACTION

Woodman, Inc. of Mokena, Illinois for the 143rd Street Metra Station Stairs - Design Engineering Amendment, in an amended amount not to exceed \$37,340.00.

DATE: January 3, 2017

REQUEST FOR PUBLIC WORKS COMMITTEE ACTION

File Number: **2017-0006**
Orig. Department: **Public Works Department**
File Name: **Silver Lake Country Club Water Main Break Emergency Repair - Payment**

BACKGROUND:

On December 6, 2016, staff responded to a water main break at the Silver Lake Country Club in the golf course near the intersection of 88th Avenue and 147th Street. Due to the water main's large 20-inch diameter size, its location and depth, the decision was made to engage Airy's, Inc. of Tinley Park, Illinois to assist with this emergency repair. The total cost for this work is \$5,638.15.

A contract is in place between the Village and Airy's, Inc. to perform this type of repair work on an emergency basis.

BUDGET IMPACT:

Sufficient funds are available in the Utilities budget account 031-6002-443800 to cover the cost for this emergency repair.

REQUESTED ACTION:

I move to recommend to the Village Board to approve the payment of \$5,638.15 to Airy's, Inc. of Tinley Park, Illinois, for Silver Lake Country Club Water Main Break Emergency Repair.

REQUEST FOR PUBLIC WORKS COMMITTEE ACTION

File Number: **2017-0005**
Orig. Department: **Public Works Department**
File Name: **Annual JULIE and Irthnet Assessment - Payments**

BACKGROUND:

The Joint Utility Locating Information for Excavators (JULIE), of Bedford Park, IL, is the One-call Locator System in Illinois which serves our area. JULIE was formed in August 1974, and initially only served Will County. Since December 1, 1980, JULIE has provided one-call service to the entire state with the exception of the City of Chicago. Effective July 1, 1991, a new law entitled "Illinois Underground Utility Facilities Damage Prevention Act" required all owners and/or operators of underground facilities to join JULIE. Our underground utilities include water, storm sewer, sanitary sewer, storm sewer, street lights, fiber optic, etc.

The JULIE, Inc. Board of Directors approved a new method for invoicing members that took effect January 2011. This billing method, successfully used by several other one-call industry centers, is designed to assist members with their annual budgeting and tracking processes.

In September, JULIE communities receive their Annual Contribution Assessment Notifications showing the number of tickets their organization received from July 1 through June 30 and their proposed cost for the upcoming year. In January of 2017, each member organization will receive an Annual Assessment Invoice based on the number of tickets processed during the previous year. The Village of Orland Park received its 2017 annual assessment of \$16,637.59 for 14,351 JULIE request tickets issued from July 2015 to June 2016.

To enhance staff's ability to process JULIE requests, the Village uses software purchased from Irth Solutions, LLC of Columbus, Ohio to receive, review, track, process and complete locate tickets using an online/web based format. Similar to the JULIE billing format, Irth Solutions also bills annually based on the number of software users and the anticipated number of processed tickets based on the prior year. Irth Solutions, LLC submitted a 2017 annual invoice for \$6,024.15.

BUDGET IMPACT:

Funds are available in FY17 Budget accounts 031-6001-432800 and 010-5001-432800 for these services.

REQUESTED ACTION:

I move to recommend to the Village Board to approve payment to JULIE Inc., of Bedford Park, IL for the Annual Assessment invoice of \$16,637.59;

And

DATE: January 3, 2017

REQUEST FOR PUBLIC WORKS COMMITTEE ACTION

Recommend to approve payment to Irth Solutions, LLC of Columbus, Ohio for their annual invoice of \$6,024.15.

REQUEST FOR PUBLIC WORKS COMMITTEE ACTION

File Number: **2017-0007**
Orig. Department: **Public Works Department**
File Name: **KONE Elevator Maintenance Contract Amendment - Proposal**

BACKGROUND:

The U.S. Communities Government Purchasing Alliance (USCGPA) offers participating public agencies the ability to make purchases through existing, competitively solicited contracts between suppliers and public agencies. On December 1, 2014, the Village Board approved the Village's participation in a US Communities contract with KONE, a Corporation of Lombard, IL. for elevator maintenance services. KONE Inc. provides maintenance services to all of the elevators located in Village-owned facilities. The Village desires to amend the current maintenance service agreement to include the two elevators at the newly constructed parking structure and the single elevator servicing the recently acquired Orland Park Health & Fitness Center.

The single hydraulic elevator located at the Orland Park Health & Fitness Facility is currently under a maintenance agreement with Colley Elevator Co. of Bensenville, IL. After the review of the Colley Elevator service contract by the Village attorney, a letter was sent to Colley Elevator Co. cancelling the contract effective January 3, 2017. The hydraulic elevator located at the Orland Park Health & Fitness Center, 15430 West Avenue, Orland Park, IL. will be added to the Village's monthly billing at a rate of \$150.00/month (consistent with current elevator billing rate) effective January 3, 2017.

The two elevators servicing the newly constructed parking facility will also be added to the KONE agreement. All existing elevators that service Village facilities are classified as hydraulic elevators with solid state controllers. The two new KONE ECODisc traction elevators at the parking facility are a new technology with microprocessor controls, requiring a higher level of maintenance. Currently, both elevators are covered under the manufacturer's maintenance for 1-year following installation. The two KONE ECODisc elevators located at 9650 S.143rd Street, Orland Park, IL. will be added to the Village's monthly billing at a rate of \$285.00/per elevator/per month effective November 10, 2017.

BUDGET IMPACT:

Funding to cover these elevator maintenance amendments is available in the FY17 approved budget (010-1700-442910).

REQUESTED ACTION:

I move to recommend to the Village Board to accept the maintenance contract amendment from KONE Corporation of Lombard, IL for the single hydraulic elevator located at the Orland Park Health & Fitness Center at a billing rate of \$150.00/month effective January 3, 2017, and for the two KONE ECODisc elevators servicing the new parking deck at a monthly billing rate of \$285.00/per elevator/per month effective November 10, 2017.

REQUEST FOR PUBLIC WORKS COMMITTEE ACTION

File Number: **2017-0015**
Orig. Department: **Public Works Department**
File Name: **Emergency Traffic Signal Controller Cabinet Replacement - Payment**

BACKGROUND:

On November 6, 2016, a two car accident within the intersection of 143rd Street and John Humphrey Drive caused major damage to the traffic light controller cabinet located at the intersection.

The controller cabinet is critical to the proper flow of intersection traffic and contains the relevant components and circuitry necessary to control the traffic signals in the immediate area.

To facilitate this work, the Police Department immediately contacted the Village's traffic signal electrical maintenance company, MEADE of McCook, Illinois to perform emergency repairs on the damaged controller cabinet.

The totally damaged cabinet was replaced with a new TS2 Eagle cabinet with full equipment.

BUDGET IMPACT:

Funds needed to complete these repairs are available in the insurance fund, account 092-0000-452210.

REQUESTED ACTION:

I move to recommend to the Village Board to approve payment to MEADE of McCook, Illinois for the emergency replacement of the traffic signal controller cabinet at the intersection of 143rd Street and John Humphrey Drive for a not-to-exceed cost of \$21,911.08.
