

VILLAGE OF GERMANTOWN
N112 W17001 MEQUON ROAD
GERMANTOWN, WI 53022

MEETING: **PUBLIC WORKS & HIGHWAY COMMITTEE**

DATE AND TIME: **WEDNESDAY, February 1, 2017** *****5:30 P.M.*****

LOCATION: **Germantown Village Hall Board Room**

- I. **CALL TO ORDER:** This meeting has been given public notice in accordance with Wisconsin Statutes, Section 19.83 and 19.84 in such form that will apprise the general public and news media of subject matter that is intended for consideration and action.
- II. **ROLL CALL:** Chairman Kaminski, Trustees Miller, Warren and Zabel
- III. **APPROVAL OF MINUTES:** December 7, 2016 and January 10, 2017
- IV. **PUBLIC COMMENT:** Please be advised per State Statute Section 19.84(2), information will be received from the public. It is the policy of this municipality that there be a three minute time period, per person, with time extensions per the Chief Presiding Officer's discretion; be further advised that there may be limited discussion on the information received, however, NO ACTION will be taken under public comments.
- V. **NEW BUSINESS:**
 - A. Consideration of Utility Credit – W177 N11527 Blackstone Circle
 - B. Authorization to Purchase – Pick Up Truck – Water Utility
 - C. Authorization to Purchase – Pick Up Truck – Wastewater Utility
 - D. Consideration of Invoice – Well #11 – CTW Corp.
 - E. Consideration of Contract – TAPCO Preventative Maintenance
 - F. Authorization to Contract – Flooring Replacement - Police Department 1st Floor
 - G. Request Authorization to Design and Bid Sanitary Sewer Relay – Main Street
 - H. Award of Contract – Windsor Ct., Castle Dr., Squire Dr. Water Main Relay
 - I. Request to Release Retainer to All-Ways Contractors, Inc. for Catie Vista Storm Relay (Sylvan Circle)
 - J. Finalized List of 2017 Street Projects – Discussion and Possible Action
 - K. Village Labor and Equipment Rates – 2017
- VI. **NEXT MEETING DATE:** Set March, 2017 Meeting Date and Time
- VII. **ANNOUNCEMENTS:**
- VIII. **ADJOURNMENT:**

UPON REASONABLE NOTICE, efforts will be made to accommodate the needs of disabled individuals through appropriate aids and services. For additional information or to request this service please contact the Village Clerk at (262)250-4740 at least 2 days prior to the meeting.

*** Notice is given that a majority of the Village Board may attend this meeting to gather information about an agenda item over which they have decision making responsibility. This may constitute a meeting of the Village Board per State ex rel. Badke v. Greendale Village Board, even though the Village Board will not take formal action at this meeting.

PUBLIC WORKS & HIGHWAY COMMITTEE MEETING MINUTES

December 7, 2016
Village Hall Board Room

CALL: Chm. Kaminski called the meeting to order at 5:30 p.m.

ROLL CALL: Chm. Kaminski, Trustee Members Miller, Warren (absent & excused) and Zabel. Also present were Director Ratayczak, Engr. Laning and Secretary Wick.

PREVIOUS MINUTES: **MOTION made by Miller, seconded by Zabel to approve the minutes of November 2, 2016.**

Motion carried unanimously.

PUBLIC COMMENT: None

MOTION made by Miller, seconded by Zabel to address Item “D” first under New Business of the Public Works and Highway Committee Meeting agenda.

Motion carried unanimously.

APPROVAL OF PERMIT FOR WISCONSIN TECHNOLOGY NETWORKING, LLC TO INSTALL A 120’ UTILITY POLE IN RIGHT OF WAY: Dir. Ratayczak received an application from Wisconsin Technology Networking to construct a 120’ tall galvanized steel pole within the right-of-way on Maple Road on the west side of Fire Station #2. The purpose of the pole is to provide intrastate telecommunications service to telecommunications providers and private-line services. Wisconsin Technology Networking’s application to occupy space within the Village’s right-of-way falls under Section 8.065 of the Germantown Municipal Code. Additional description of services and location maps were provided to the Committee. The permit would stipulate that only four dishes would be allowed on the pole and no additional interference with the Village’s radio signals currently being emitted from Village towers. The Ordinance requires the applicant to register with the Village and the process has already started.

Jay Wendt, Representative of Mobility/WI Technologies, stated they were a backhaul provider in which they take data of the major carriers (AT&T, Verizon, Sprint, etc.) and carry their data out to the internet. The microwave antennas located on the pole are able to transmit data via line of site at rates almost similar to fiber optics. The poles can be placed from 1 to 10 miles with major data transport capability.

Discussion and questions included;

- WI Tech Networking is currently working with Bayside, Kewaukum, Saukville; in all, 2700 jurisdictions throughout the nation;
- Where would be the next pole location? Could be existing cell towers. Mr. Wendt did not have further information. The company has to tie back to fiber. On a lot of the poles, all that is needed is an electrical hookup. Whether there is fiber in the area will determine whether WI Tech will hookup to this particular pole.
- Is the Village looking at additional poles in the future? As network needs, users, and density increase, Mr. Wendt stated it would be possible.

- WI Tech Networking is regulated by the Public Service Commission and certificated as a CLEC (Competitive Local Exchange Carrier) or ATU (Alternate Telecommunications Utility). It allows WI Tech Networking access to the right of way like a utility. WI Tech Networking still has to meet local ordinance and local law. What the State grants is access to the right of way in a non-discriminatory manner.
- The southeast portion of the Village is pretty much under fiber optics which goes to Mequon or Freistadt. At what point in time will WI Tech Networking know if they are going to tie back into that fiber optic network? Mr. Wendt stated it will be based on the needs, approvals, and the understanding of the overall network in the general region.
- Is there anything in the permit process and research that this tower location will not be the best location for WI Tech? Mr. Wendt stated at this time the radio frequency engineering worked and there was no indication that the pole location would change.
- Mr. Wendt stated maintenance of the equipment can be completed with a boom truck from the roadway. Any changes to the WI Tech's maintenance procedures can be openly discussed.

Brian Depies, W143 N9867 Ridgewood Lane, appreciated all the work everyone contributed to the potential installation of the telecommunications pole. Mr. Depies works with SEH, Inc. (Short, Elliot, and Hendrickson) who has an entire group dedicated to telecommunications. SEH, Inc. does many leases on water tower telecommunications and are very experienced in the process. Mr. Depies gave a brief history on the telecommunication companies who had looked to various municipalities in SE Wisconsin indicating they were a PSC regulated entity wanting to place a 120 foot telecommunications pole in the right of way within the community. Mr. Depies's concern was the use of a public right of way for any entity whether it's labeled and permitted by right as a PSC entity; that was openly telling people we will provide and be a backhaul provider for the private entities. Mr. Depies's questions included:

- Why and the reasons the pole needed to be in the public right of way;
- Would like to understand the technology;
- Where has the company physically received municipal permits within the State of WI;
- Believed City of Green Bay came up with a Master Land Use Agreement which indicates a Master License Agreement between the community and WI Technology Network for the use of public right of ways. This type of document controls the use of that public right of way not only from the PSC standpoint but what if others (ATT or Verizon) do not want to pay their rates that they say they pay to be located on a tower. Those companies will come before the municipality and ask to put a tower in the right of way possibly creating private entity towers next to each other. Where you have dense populations the provider will start to locate telecommunications on street light poles.

Mr. Depies felt there was a better way to handle the entity. His fear was opening Pandora's Box; by approving one entity you cannot stop other entities after that. He understood the need for the telecommunication towers as more users came on. Mr. Depies's alternative was following the format that the City of Green Bay, City of Wausau and Village of Rothschild was following which was a Master License Agreement between the two entities. As Mr. Depies did not have the opportunity to review the Master License Agreement, he was unable to explain its language. In closing, Mr. Depies felt by allowing the poles in the right of way would set precedence and the Village should protect their best interests. SEH, Inc. was not competitive with WI Technology Networking. Their company represents 100% municipal interests in the State of Wisconsin and Minnesota.

Dir. Ratayczak referred to a suggestion of land uses to include placing the pole on public property and what if public property didn't exist? Mr. Depies stated the current proposed location was next to a Fire Station so let's work with the telecommunication company and keep the pole out of the right of way. Second was the Master License Agreement that should be explored further.

Dir. Ratayczak asked Mr. Depies if any municipality formally, in public, rejected the permit or the ability for WITN to put their tower in the right of way. Mr. Depies stated he wasn't involved that often but stated the Village of Random Lake rejected the permit. Random Lake's Ordinances declared the application was improper and therefore incomplete. Random Lake passed a Resolution indicating why the permit was incomplete and passed an Ordinance indicating what they would expect to see in the future.

Mr. Depies questioned what was WI Tech's FCC license to transfer a signal? Mr. Wendt stated WITN was not licensed with the FCC as they were not a structural provider and did not own spectrum. They do not own a spectrum for the air. Essentially a lot of people go underground with cable.

Water Supt. Jim Driver was asked if there was a limit as to how much could be placed on a water tower. His response was you could put a lot on a water tower and it depended structurally what was being installed. Engineering studies would be recommended to ensure there was no interference with radio communications (SCADA System).

Mr. Wendt, WITN, stated typically when WITN gets into a licensing agreement is when they do attachments on that particular entity's light pole. It is exactly related to the small cell technology. This is not what WITN is asking for. Small cell technology is about densification. By utilizing the right of way, it was Mr. Wendt's opinion the Village could ask for fees in terms of maintaining the database, registrations, etc. From that perspective the Village cannot charge a lease fee inside the right of way. If WITN moved their tower to the Fire Dept. site and within an easement with no fees, they would be willing to operate in that location. WITN would not be interested in paying fees for installing their tower on public ground. It is totally about economics. From a public policy perspective it starts with the FCC working down to the State level which allowed fiber optic, telecom, wet & dry utilities to utilize the right of way for the public good for necessary pieces of infrastructure. Cell phones are necessary pieces of infrastructure. By utilizing the right of way from a public policy perspective makes sense. If we push the towers to private ground, rates go up and citizens pay more through their fees, Mr. Wendt felt utilizing the right of way did make sense economically.

Chm. Kaminski agreed with the installation of a new pole for the data. She stated we need that kind of coverage for the area and it is expected. It is a public service. Chm. Kaminski questioned the Village Ordinance and wondered if it was written in such a way that the Village had to allow every single person coming in.

Trustee Zabel noted the PSC states the Village has to accommodate those who are registered through the PSC within our right of way. In the past it's only been the gas and electric companies. The Village determines the location within the right of way. Trustee Zabel voiced concern with one tower company coming in and the fact they couldn't deal with the other tower company that was already there and now you have two towers. It was his fear when the communication companies come and place a tower in the right of way and the Village does not

have something in Village Codes and AT&T wants to come in and be in the same right of way 100 ft. away from the other tower how do you say no to AT&T? He believed this is where the permitting and licensing comes in. Trustee Zabel wanted to see a copy of the Licensing Agreement from Green Bay be sent to the Village's attorney to determine what the Village could and could not do.

Mr. Wendt questioned Dir. Ratayczak if one of the registration items was the Indemnification Agreement. The answer was yes. Mobility will be entering into that agreement with the Village. Mobility will also need to maintain a certificate of insurance.

MOTION made by Kaminski, seconded by Miller to forward to the Village Board with a positive recommendation authorizing the approval of the Wisconsin Technology Networking LLC application for the installation of a 120' utility pole within the right-of-way on Maple Road just west of Fire Station #2.

Dir. Ratayczak questioned if WITN was licensed by the FCC. Mr. Wendt stated they were not licensed by the FCC and did not need to be. Their equipment needs to be regulated by the FCC but they do not own the spectrum. Mr. Wendt referred to State Statutes 182.017 which essentially stated what could happen inside a right of way, how utilities operate, timelines for applications etc. Statute 66.0404 is the telecom which limits what you can do.

Motion carried 2-1 (Zabel)

AUTHORIZATION TO REPLACE ON-LINE FLUORIDE ANALYZER: Supt. Driver reported an on-line fluoride analyzer used to obtain fluoride readings on weekends and holidays had failed. Staff had purchased a replacement under an emergency situation and requested approval of the invoice from HACH Corporation in the amount of \$5,865.85.

MOTION made by Zabel, seconded by Miller to forward to the Village Board with a positive recommendation to authorize payment of the HACH Corporation invoice in the amount of \$5,865.85 for a replacement on-line fluoride analyzer. Funds to be allocated from Acct. #50-742-530-6770.

Motion carried unanimously.

AUTHORIZATION TO BLANKET PURCHASE ORDER – WATER METERS: Supt. Driver requested authorization to generate a blanket purchase order up to the 2017 budgeted amount of \$150,000 for the purchase of water meters on a time and need basis as part of the meter change-out program.

MOTION made by Kaminski, seconded by Miller to forward to the Village Board with a positive recommendation to approve the allocation of \$150,000 in the form of a blanket purchase order for the continuing purchase of water meters on a time and need basis. Funds to be allocated from the 2017 Capital Budget Acct. #50-180-183-3460.

Trustee Zabel asked that funds not be expended until 2017.

Motion carried 2-1 (Zabel)

REQUEST TO RELEASE RETAINER TO TP CONCRETE INC. FOR FIRE STATION #2 CONCRETE PAVEMENT REPLACEMENT: Engr. Laning reported the project was successfully completed in 2015 and has passed the one year warranty period. All contract requirements have been met.

MOTION made by Miller, seconded by Zabel authorizing the release of a contract retainer in the amount of \$1,311.25 to T.P. Concrete, Inc. which was held during the one year warranty period for the south concrete driveway approach replacement at Fire Station #2.

Motion carried unanimously.

PRESENTATION OF THE FINALIZED DRAFT OF THE FIVE YEAR ROAD IMPROVEMENT PROGRAM: Engr. Laning presented the finalized draft of the Village's Five Year Road Improvement Program which had been modified to reflect recommendations and suggested changes provided by the Committee. A map was provided for viewing and Engr. Laning highlighted the following:

- Added resurfacing/repair costs to highlighter areas, subdivisions, or grouping of streets;
- Added nominal Paser Rating below the costs;
- Need to finalize the 2017 road projects within the next two months in order to bid in a timely fashion;
- Woodland Drive was added to the 2017 list as it was in poor shape but asked the Committee to consider utilities installation prior to road repairs;

Committee comments included;

- Were there any issues with testing of wells in the Woodland Drive area? Trustee Zabel was aware of one resident.
- Wells should be tested prior to road repairs; Wells are required to be permitted every five years in areas where municipal water is available.
- Municipal water is available east of Woodland Drive and south along Goldendale. Water can be looped.
- Water is nearby Woodland Drive but the Village did not want to improve roads if municipal water was necessary.
- Trustee Zabel was not of the intent that the water main had to be under the pavement.
- Dir. Ratayczak did not have issue with putting water main off the road if it was justified to do so.
- Engr. Laning spoke on priority of roads. You don't always do the worst roads first. Roadway usage and priority must also be taken into consideration. Woodland Drive fit well in the 2017 program.
- Should sanitary sewer be considered on Woodland Drive? Staff should first send a survey letter to the affected residents to see if they want sanitary sewer and water and include a rough estimate of the costs to do so.
- Chm. Kaminski noted sanitary sewer and water main installation should be investigated further and highly considered prior to repairing Woodland Drive as it would be smart planning for the future.
- Concord Road repairs have been moved to year 2019. It was suggested a survey letter be sent to those residents asking if they would be interested in municipal water. Trustee Zabel did not want to see water mains installed if there was no requirements/timeframe to connect.

- Engr. Laning referred to Page 2 of the spreadsheet presented at the meeting noting the summary of construction costs for 2017 showed \$1.6 million which was a construction estimate. Through careful bidding, the 2017 road projects should be complete for the Village's budgeted amount of \$1.5 million. If bids exceeded the budgeted amount, Engr. Laning would scale back the projects.
- "Proposed" roads to be repaired should be placed on the Village's website noting "Subject to Change";
- Engr. Laning was requested to provide a final calculation of all costs to complete the two mile stretch of the Donges Bay Road project.

NEXT MEETING DATE: The next Public Works and Highway Committee meeting will be held Tuesday, January 10, 2017 at 5:30 p.m.

ANNOUNCEMENTS: None

ADJOURNMENT: There being no further business, the meeting was adjourned at 6:50 p.m.



Janice Wick, Recording Secretary

PUBLIC WORKS & HIGHWAY COMMITTEE MEETING MINUTES

January 10, 2017
Village Hall Board Room

CALL: Chm. Kaminski called the meeting to order at 5:30 p.m.

ROLL CALL: Chm. Kaminski, Trustee Members Miller, Warren and Zabel. Also present were Director Ratayczak, Engr. Laning and Secretary Wick.

PUBLIC COMMENT: None

AUTHORIZATION TO PURCHASE – DUMP TRUCK FOR WATER UTILITY: On behalf of the Water Superintendent, Supt. Zimmerman requested authorization to spend up to the approved budgeted amount for a used quad axle dump truck. The truck would be used for hauling spoils, backfilling material, and could also be utilized at the Recycling Center to haul yard waste to a remote location. Supt. Zimmerman was aware of two trucks available through bank repossession and believed he would be able to acquire one for an amount not to exceed \$85,000.

MOTION made by Warren, seconded by Miller to forward to the Village Board with a positive recommendation authorizing the purchase of one used quad-axle dump truck for an amount not to exceed \$85,000 for the Water Utility Dept. Funds to be allocated from the 2017 Budget Acct. #50-180-185-3920.

Motion carried unanimously.

AUTHORIZATION FOR BLANKET PURCHASE ORDER – MATERIAL PROCESSING – RECYCLING CENTER: Supt. Zimmerman requested approval to generate a blanket purchase order with a single vendor for continued material processing at the Recycling Center for year 2017.

MOTION made by Miller, seconded by Warren to forward to the Village Board with a positive recommendation to approve the allocation of an amount not to exceed \$15,000 in the form of a blanket purchase order for the continuing material processing by Max R Recovery at the Recycling Center.

Motion carried unanimously.

DEVELOPER AGREEMENT – PRESBYTERIAN HOMES – REVIEW AND POSSIBLE ACTION: Dir. Ratayczak presented for Committee review the Presbyterian Homes draft Developer Agreement for two structures proposed to be developed two years apart on Mequon Road west of Division Road. The Developer Agreement covers the construction of water main, sanitary sewer and storm water infrastructure within the right of way and in a utility easement. Dir. Ratayczak noted the Development Agreement was drafted as it was tied to the purchase of the property. Dir. Ratayczak further explained the utility connections and Mequon Road re-alignment. Staff has reviewed plans and utilities for compliance. The water main will create a loop in the system. Committee comments and suggestions included;

- Section 1.07 – Site plan approval date should be changed to the actual date in year 2016;

- Section 8.04 – It was recommended the Sunset Clause date be terminated in four (4) years vs. two (2) due to the fact there will be two separate phases and the second building may not be complete within the two year timeframe.

Lisa Albain, Representative for Senior Living Partners, stated there was no time frame as to when the second phase of the development would be completed as it would be dependent on a market evaluation. She believed a four year sunset clause would be attainable.

- Soil borings are out for bid. Building construction start date is March/April, 2017.
- Dir. Ratayczak submitted to the Committee a revised “Exhibit A” which was adjusted with updated impact and connection figures based on the independent residential units and assisted/memory care commercial units.
- Trustee Zabel suggested separate tax key numbers as there was a firewall that separated the independent units and assisted/memory units.
- Dir. Ratayczak commented on “Exhibit A-1” of the Developer Agreement which was in reference to the future building on the parcel. Impact and connection figures were estimated as a place holder and would be adjusted when necessary.

MOTION made by Zabel, seconded by Warren to forward to the Village Board with a positive recommendation the Presbyterian Homes Developer Agreement to include the following modifications:

- Section 1.07; site plan approval date to be revised to actual date;
- Section 8.04; Sunset clause date to be extended to four (4) years;
- Updated Exhibit “A” of the Developers Agreement to be verified by the Developer.

Motion carried unanimously.

NEXT MEETING DATE: The next Public Works and Highway Committee meeting will be held Wednesday, February 1, 2017 at 5:30 p.m.

ANNOUNCEMENTS: None

ADJOURNMENT: There being no further business, the meeting was adjourned at 6:00 p.m.



Janice Wick, Recording Secretary

**BUSINESS OF THE PUBLIC WORKS & HIGHWAYS COMMITTEE
GERMANTOWN, WI**

MEETING DATE: February 1, 2017

AGENDA ITEM: New Business A

ITEM TITLE: Consideration to Adjust 4th Quarter Sewer & Water Invoice for James Voigt, W177 N11527 Blackstone Circle

SUBMITTED BY: Lawrence W Ratayczak, P.E., Director of Public Works

SUMMARY EXPLANATION:

James Voigt resides at W177 N11527 Blackstone Circle. James Voigt brought this to the Villages attention by email & telephone (email attached) on December 19, 2016. The email describes James finding an outside hose bib leaking in November. The Voigt's are estimating that the faucet was running for about a week. The Voigt house was built in 2014 with the lawn installed in the later part of the year causing the 4th quarter of 2014 reflecting the new lawn irrigation.

Normal average water usage for the 4th Quarter is 12,000 gallons for 2014. The water use for the 4th Quarter of 2016 was 22,000 gallons. The over average use was 8,000 gallons. The cost for the over average water use is \$2.29/1,000 gallons times 8,000 gallons or \$18.32. The cost for the over average sewer use is \$6.913/1,000 gallons times 8,000 gallons or \$55.30.

ATTACHMENT: ORDINANCE_____ RESOLUTION_____ OTHER X

Email from James Voigt

RECOMMENDATION:

Staff is looking to the Public Works Committee for direction with regard to allow a reduction in the 4th Quarter sewer & water invoice for James Voigt, W177 N11527 Blackstone Circle.

COMMITTEE ACTION:

Proper parliamentary procedure to deny a request is to have a motion made in the affirmative and by voting NAY would deny the request if a majority vote.

Possible Utility Credit

Lawrence Ratayczak

From: voigtfam@gmail.com
Sent: Monday, December 19, 2016 1:45 PM
To: Lawrence Ratayczak
Subject: FW: Fourth Quarter Water Bill

I was a little dyslexic on the first email...

Sent from Mail for Windows 10

From: voigtfam@gmail.com
Sent: Monday, December 19, 2016 1:34 PM
To: lratayczak@village.germantown.wi.us
Subject: Fourth Quarter Water Bill

Good Afternoon Larry,

I have not received my fourth quarter water bill, but know I will have a large one. I found my outside hose bib leaking in early November. My guess is that it was leaking for about a week. In reviewing the water bill back in mid November, it appears that I had already used about 20 thousand gallons, and my typical 4th quarter water use is 12 thousand gallon range. I realize that I used the water (though not intentionally) so I have no issue with paying the water bill. I am just hoping that I can avoid the sewer bill, as I am guessing 10 – 12 thousand gallons soaked into my lawn and didn't go to the MMSD.

My address is W177 N11527 Blackstone Circle
Account Number 0021403100-00

The billing department told me I had to talk to you about this directly, let me know your thoughts.

Hope all is well with you, and that you have a Merry Christmas, and Happy New Year!

Respectfully,

Jim Voigt
414.559.8656

Sent from Mail for Windows 10

**BUSINESS OF THE PUBLIC WORKS AND HIGHWAY COMMITTEE
GERMANTOWN, WI**

MEETING DATE: February 1, 2017

AGENDA ITEM: New Business B

ITEM TITLE: Consideration of Purchase-2017 Chevrolet 2500 truck

SUBMITTED BY: Scott Weigand, Designated Operator

SUMMARY EXPLANATION:

The Water Utility is requesting authorization to purchase a 2017 truck from Ewald Chevy of Oconomowoc who was the lowest bidder. Four bids were solicited and only three bids were returned. The results are as follows.

Ewald Chevy	Oconomowoc, WI	\$41,913.00
Bob Fish	West Bend, WI	\$44,099.00
Holz Motors	Hales Corners, WI	\$44,751.00

ATTACHMENT: ORDINANCE_____ RESOLUTION_____ OTHER X

RECOMMENDATION:

Staff recommends purchasing the 2017 Chevy 2500 from Ewald Chevy as they are the low bidder.

Staff recommends allocating \$41,913.00 from the 2017 capital budget (50-180-185-3920)

COMMITTEE ACTION:

Proper parliamentary procedure to deny a request is to have a motion made in the affirmative and by voting NAY would deny the request if a majority vote.

**BUSINESS OF THE PUBLIC WORKS AND HIGHWAY COMMITTEE
GERMANTOWN, WI**

MEETING DATE: February 1, 2017

AGENDA ITEM: New Business 

ITEM TITLE: Authorization to Purchase – Pickup Truck – Wastewater Utility

SUBMITTED BY: Tim Zimmerman, Wastewater Utility Superintendent

SUMMARY EXPLANATION:

Quotes were not available at the time backup submittals were due. Quotes will be received Monday, January 30th and an update will be emailed to all Trustees.

ATTACHMENT: ORDINANCE_____ RESOLUTION_____ OTHER X

RECOMMENDATION:

COMMITTEE ACTION:

Proper parliamentary procedure to deny a request is to have a motion made in the affirmative and by voting NAY would deny the request if a majority vote.

**BUSINESS OF THE PUBLIC WORKS AND HIGHWAY COMMITTEE
GERMANTOWN, WI**

MEETING DATE: February 1, 2017

AGENDA ITEM: New Business D

ITEM TITLE: Consideration of Invoice – Well #11 – CTW Corp.

SUBMITTED BY: Scott Weigand, Designated Operator

SUMMARY EXPLANATION:

The water utility is requesting authorization to pay invoice from CTW Corporation for emergency repair of well 11 motor bearings. Invoice 2497 is for the removal, repair and installation to the motor. Further use of the well without repair would have caused catastrophic damage to the motor and possibly the well itself.

ATTACHMENT: ORDINANCE____ RESOLUTION____ OTHER X

RECOMMENDATION:

Staff recommends paying invoice from CTW Corporation for the emergency repair of the motor at well 11.

Staff recommends using the money from account 50-742-530-6770

COMMITTEE ACTION:

Proper parliamentary procedure to deny a request is to have a motion made in the affirmative and by voting NAY would deny the request if a majority vote.

C T W CORPORATION
21500 W GOOD HOPE RD
LANNON WI 53046-9720
(262) 253-6613

INVOICE

24297

Page 1 of 1

Date: 1/11/2017
Due Date: 2/10/2017

Bill To:

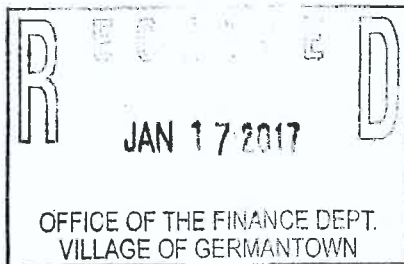
VILLAGE OF GERMANTOWN
DEPT OF PUBLIC WORKS
PO BOX 337

GERMANTOWN WI 53022

PO #: JIM DRIVER

JOB NO:GTWN-7263

Description	Quantity	Unit Price	Ext. Price
DECEMBER 2016 WELL#11 ELECTRIC MOTOR SERVICING			
WELL #11 ELECTRIC MOTOR SERVICING - PROPOSAL LETTER COVERING MOTOR SERVICE WORK DATED 12/14/16 APPROVED BY JIM DRIVER. ADDED \$275 FOR RE-PLATING MOTOR BEARING JOURNALS APPROVED BY JIM VERBALLY 12/27/16.			
MOTOR REPAIRS FROM L&S ELECTRIC, SHOP GENERATED REPORT TO FOLLOW	1.00	4,024.00	4,024.00
LABOR FOR PUMP RIG, OPERATOR & PUMP TECHNICIAN AS QUOTED	1.00	2,100.00	2,100.00
REMOVE AND SERVICE STUFFING BOX - BRONZE BUSHING, PACKING, "O" RING	1.00	220.00	220.00



VENDOR #	03015
ACCT. #	50-742530-6770 SW
DISC. \$	
APPROVAL	<i>[Signature]</i>

Thank You For Your Business!

SUBTOTAL: 6,344.00

TAX BASE: 0.00

SALES TAX: 0.00

TERMS: NET 30 DAYS

TOTAL AMOUNT DUE: 6,344.00

**BUSINESS OF THE PUBLIC WORKS & HIGHWAYS COMMITTEE
GERMANTOWN, WI**

MEETING DATE: February 1, 2017

AGENDA ITEM: New Business E

ITEM TITLE: Consideration of Contract- TAPCO Preventative Maintenance

SUBMITTED BY: Jay Olszewski, Highway Superintendent

SUMMARY EXPLANATION:

Staff is presenting for Committee review the "Traffic Signal Preventative Maintenance Contract" between the Village and TAPCO. This contract covers the 15 current controlled intersections under Village jurisdiction. Some highlights of the contract include verifying proper operation of control equipment, maintaining signal plan charts, cabinet blueprints and timing plan charts, verifying proper operation of the NEMA Conflict monitor units, AC power feeds, signal head alignment, proper operation of all loop detectors, correct "flash" operation, and lastly that TAPCO will respond for maintenance and/or design modifications as requested by the Village. The hourly rate for TAPCO is \$100/hr standard, \$150/hr. non business, and \$200/hr Sunday and holiday. The total cost for PM portion of the contract is \$2,250. The village will pay that full amount and invoice Fleet Farm \$150 (1/15th) for their portion of the agreement.

ATTACHMENT: ORDINANCE _____ RESOLUTION _____ OTHER x

RECOMMENDATION:

Staff recommends entering into this contract with TAPCO. Funds for the cost shall be allocated from Highway Line Item account 10-542-530-3540.

COMMITTEE ACTION:

Proper parliamentary procedure to deny a request is to have a motion made in the affirmative and by voting NAY would deny the request if a majority vote.

TRAFFIC SIGNAL PREVENTIVE MAINTENANCE CONTRACT

The "PRO-TECH" Contract

This contract is between the Village of Germantown, the customer and Traffic and Parking Control Company, Inc. 5100 W. Brown Deer Rd., Brown Deer, Wisconsin (TAPCO), the contractor.

This contract covers the period of time from midnight, December 1st, 2016 to midnight, November 30th, 2017.

The intersections covered by this contract are listed in Exhibit A, accompanying this contract.

The contractor (TAPCO) agrees to provide full preventive maintenance under the following terms and conditions;

TAPCO shall inspect the covered signalized intersection(s) and their control equipment to verify proper operation. This inspection shall take place once a year.

TAPCO shall check the following items at the covered signalized intersection(s). These checks have been developed by employing current engineering practices. These professional standards will be applied to not only the signal maintenance but signal timing and traffic operations as well.

1.) Verify proper operation of the Controller Unit. This shall consist of verifying that the controller is correctly programmed per the controller database records and that the controller is correctly executing its program.

2.) TAPCO will maintain the intersection documentation consisting of signal plan charts, cabinet blueprints and timing plan charts.

3.) Verify proper operation of the NEMA Conflict Monitor Unit. This shall consist of testing the NEMA Conflict Monitor on an automatic NEMA monitor test set. The test set shall be capable of testing all aspects of monitor operation for conformance with NEMA specifications.

- 4.) Check AC power feed at the control cabinet. Record measured voltage from Hot to Neutral, from Hot to Ground, and from Neutral to Ground. Record measured current flowing in the Hot, Neutral, and Ground conductors.
- 5.) Check and record current drawn, at the control cabinet, from each loadswitch circuit by the field lamp loads.
- 6.) Check and record inductance, series resistance and leakage resistance for each loop detector circuit at the control cabinet. Verify the proper operation associated with each detector amplifier.
- 7.) Check all terminal screws in the control cabinet for tightness.
- 8.) Verify operation of control cabinet heater and fan. Verify correct settings of their respective thermostats.
- 9.) Verify correct flash operation at the control cabinet. Also verify operation of any control switches in the control cabinet.
- 10.) Verify operation of all pedestrian pushbuttons and check for the presence and orientation of the pushbutton signs.
- 11.) Check all signal head indications for proper aiming and proper operation.
- 12.) TAPCO shall visually inspect the control cabinet, meter pedestal, pull boxes, signal poles, signal bases, and signal heads for any signs of damage or vandalism.
- 13.) TAPCO will check operation of the lighting control circuit if housed within the traffic signal cabinet and check luminaires for proper operation.
- 14.) TAPCO shall replace the control cabinet air filter element, vacuum inside the cabinet, and lubricate the cabinet door hinges and locks once per year.
- 15.) TAPCO will verify proper operation of optical preemption, and if installed, confirmation lights.
- 16.) TAPCO shall check for proper grounding of unused conductors within the traffic control cabinet.

17.) TAPCO will verify proper operation of vehicle detection systems to include video detection, microwave detection, and wireless sensors.

18.) TAPCO will provide, where necessary, firmware upgrades to video, microwave, and wireless vehicle detection systems.

19.) TAPCO shall supply the customer completed documentation of all preventive maintenance performed.

If loaner equipment is required to restore the intersection to proper operation until equipment is discovered to be malfunctioning, can be repaired and returned to service, that loaner equipment shall be charged for. The rental rate for loaner equipment shall not exceed 10% of list price per month pro-rated weekly. Loaner equipment is subject to availability.

TAPCO shall perform recommended preventive maintenance on electromechanical controller unit(s) at covered signalized intersection(s). This shall consist of cleaning, lubricating and adjusting the controller unit(s) and their terminal facilities. Parts shall be replaced as needed. Parts replaced shall be charged for according to the manufacturer's current price list.

The contractor (TAPCO) agrees to provide preventive maintenance under the terms of this contract during normal business hours. Normal business hours are defined as 8:00 a.m. to 5:00 p.m., Monday through Friday, excluding Saturdays, Sundays and Holidays.

TAPCO shall invoice the customer the amount of \$2250.00 for preventive maintenance, once per year, after work is completed. The customer agrees to pay invoice within 30 days of receipt.

The contractor (TAPCO) further agrees to provide response maintenance and/or design modification maintenance, as authorized by the customer.

Response maintenance, under the terms of this contract, will be limited to "at random failures", accidents or "knockdowns" or vandalism, or acts of God such as lightning damage, flood, etc.

Design modification maintenance, under the terms of this contract, will include, but not be limited to changes in signal sequence or timings that are required or desired.

TAPCO shall provide response maintenance and/or design modification maintenance under the terms of this contract during normal business hours. The regular hourly rate for these services

shall be \$100.00 per hour, portal-to-portal. Any parts required will be charged for according to the manufacturer's current price list.

Current engineering practices and professional standards shall be applied to not only the response maintenance, but to the design modification maintenance as well.

Should design modification maintenance be desired or emergency response maintenance be required outside of normal business hours, such service will be billed at time and a half the regular hourly rate or \$150.00 per hour. An hourly rate of \$200.00 per hour will be charged on Sundays and Holidays.

No additional charges will be made for the use of regular service vehicles or service equipment.

TAPCO shall supply the customer completed documentation of all response maintenance and/or design modification maintenance performed. Copies of this documentation shall be kept in a unique intersection file at TAPCO.

If loaner equipment is required to restore the intersection to proper operation until equipment is discovered to be malfunctioning, can be repaired and returned to service, that loaner equipment shall be charged for. The rental rate for loaner equipment shall not exceed 10% of list price per month pro-rated weekly. Loaner equipment is subject to availability.

Limitation of Liability-TAPCO shall have no liability with respect to its obligations under this agreement or otherwise for consequential, compensatory, exemplary, special, indirect, incidental or punitive damages even if it has been advised of the possibility of such damages. In any event, the liability of TAPCO to customer for any reason and upon any cause of action or claim in contract, tort or otherwise with respect to the services shall be limited to the amount paid to TAPCO by customer hereunder for such services. This limitation applies to all causes of action or claims in the aggregate, including without limitation, breach of contract, breach of warranty, negligence. Strict liability, misrepresentation, claims for failure to exercise due care in the performance of services hereunder and any other torts. Further, no cause of action which accrued more than one year prior to the filing of a suit alleging such cause of action may be asserted against TAPCO. Both parties understand and agree that the limitations and exclusions set forth herein represent the parties agreement as to the allocation of risk between the parties in connection with TAPCO's obligations under this agreement. The fees payable to TAPCO hereunder reflect, and are set in reliance upon, the allocation of risk set forth herein and the exclusion of the damages described herein and limitations of liability set forth in this agreement.

Accepted by:

Name and Title:

(TAPCO) Traffic and Parking Control Company, Inc.

By:

Name and Title: Tim Felhofer - Signal Service Technician

Exhibit A

List of covered Signalized Intersections

- 1.) C.T.H. Q & FLEET FARM
- 2.) C.T.H. Q & RIVERCREST
- 3.) PILGRIM & DONGES BAY RD.
- 4.) STH 167 & Pilgrim
- 5.) STH 167 & Squire Drive
- 6.) STH 167 & Western Avenue
- 7.) STH 167 & Division Rd.
- 8.) STH 167 & River Lane
- 9.) STH 167 & Maple Rd.
- 10.) RIVER LANE & HS DRIVE
- 11.) 175 & Maple
- 12.) 175 & County Line
- 13.) STH 167 & Legend
- 14.) Division Rd. & County Line Rd.
- 15.) County Line & Buffalo Wild Wings

**BUSINESS OF THE PUBLIC WORKS & HIGHWAYS COMMITTEE
GERMANTOWN, WI**

MEETING DATE: February 1, 2017

AGENDA ITEM: New Business F

ITEM TITLE: Authorization to Contract Flooring Replacement- PD
Lieutenants Office, Hallways, Kitchen, Jail area,
Evidence Room, and various 1st Floor areas

SUBMITTED BY: Jay Olszewski, Highway Superintendent

SUMMARY EXPLANATION:

Staff is presenting for Committee review the quotes provided by local Carpet Contractors for the removal of existing tile/carpet flooring and replacement. A combination of new luxury vinyl tile (LVT) and carpet will be installed in the areas listed above. Staff solicited quotes from 5 area flooring contractors. Two submitted proposals and the other 3 did not for various reasons. Please see included materials.

Carpet City	\$12,597.00
Carpetland	\$18,235.00
Premier Flooring	Chose Not to Bid
Taylor Made Floors	Couldn't match product
Carpet Town	Too Busy

ATTACHMENT: ORDINANCE _____ RESOLUTION _____ OTHER x

RECOMMENDATION:

Staff recommends contracting with Carpet City in the amount not to exceed \$12,597. Staff would also appreciate authorization to use the remaining funds available (\$2,400) to be used for additional flooring at the PD. If approved funds shall be allocated from Major Building Repair account 10-519-570-8221.

COMMITTEE ACTION:

Proper parliamentary procedure to deny a request is to have a motion made in the affirmative and by voting NAY would deny the request if a majority vote.

Scott Anderson

From: Jonathan Werner <jwerner@carpet-town.com>
Sent: Tuesday, January 17, 2017 10:23 AM
To: Scott Anderson
Subject: Measure/Quote

Hi Scott,

Thank you for the opportunity to bid on your project.

Unfortunately, Carpet Town is unable to send someone out and quote by the deadline provided.

Thank you for thinking of us.

Thank you,

Jonathan Werner

Phone: 414-774-2220 x218

Fax: 414-774-1048

Hours:

Monday 10-5

Tuesday 10-5

Wednesday OFF

Thursday 11-8

Friday 10-5

Saturday OFF

Sunday 12-3

Scott Anderson

From: Taylor-Made Floors-Sales <sales@taylormadeflooring.com>
Sent: Tuesday, January 17, 2017 11:07 AM
To: Scott Anderson
Subject: lvt flooring

Good morning Scott,

Thank you for giving us the opportunity to bid on your project. However, I am sorry to say that we are unable to get the LVT flooring that you are looking for. Please keep us in mind for future projects.

Sincerely,

Sandy
Taylor-Made Floors
262-677-2404 EXT. 222

**BUSINESS OF THE PUBLIC WORKS & HIGHWAYS COMMITTEE
GERMANTOWN, WI**

MEETING DATE: February 1, 2017

AGENDA ITEM: New Business 

ITEM TITLE: Request Authorization to Design and Bid Sanitary Sewer Relay - Main Street

SUBMITTED BY: Lawrence Ratayczak, P.E.- Director of Public Works

SUMMARY EXPLANATION:

The sanitary sewer on Main Street has been previously approved to be relayed from the near eastern end of Gehls (@ Gehls discharge location) to Park Avenue. The Sanitary sewer was then planned to turn south and connect with the existing 30" sanitary interceptor sewer. This sewer would have been constructed through the proposed Saxony Village project. Currently, the section through Saxony Village is in discussion with the developer and Gehls Foods but the issue of an indeterminable cost to construct the pipe through the area of contaminated soil is posing a road block. The Committee might remember that this section was determined to require public bidding by the Village Attorney and therefore staff looked at Gehl Foods paying for this section. Staff estimates that the same result of that proposed relay could be obtained by relaying the sanitary sewer to Division Road. Staff feels that the estimated cost to the Village would be near that of construction through the Saxony Village site and therefore, staff is requesting that the Public Works and Highway Committee consider giving approval for staff to develop the required plans & specifications to go out for bids and come back to the Committee with the bid results for consideration. Staff estimates the cost of the sanitary sewer to Division Road to be approximately \$750,000.00.

In discussion with Gehl Foods they remain committed to their original commitment toward the cost of the sanitary sewer relay.

ATTACHMENT: ORDINANCE _____ RESOLUTION _____ OTHER x

None

RECOMMENDATION:

Staff recommends Public Works & Highway Committee give approval for the Engineering Department to develop plans/specifications and advertise for bids to relay the existing sanitary sewer on Main Street.

COMMITTEE ACTION:

Proper parliamentary procedure to deny a request is to have a motion made in the affirmative and by voting NAY would deny the request if a majority vote.

**BUSINESS OF THE PUBLIC WORKS & HIGHWAY COMMITTEE
GERMANTOWN, WI**

MEETING DATE: February 1, 2017

AGENDA ITEM: New Business H

ITEM TITLE: Award Contract – Windsor-Castle-Squire Water Main Relay

SUBMITTED BY: John A. Laning, P.E., Village Engineer

SUMMARY EXPLANATION:

1. Bids for this project were opened January 31, 2017, and therefore not available at the time backup submittals were due for publishing. As time is of the essence with this project, staff did not wish to wait until the next meeting to bring this item forward for the committee's review. Prior to the commencement of the Committee Meeting, an exhibit providing results from the bid opening will be provided to the committee.
2. Bids received: Please refer to handout.
3. The budgeted amount for this project is \$307,000. The Village will fund this project from Acct. #50-180-183-3430, a 2016 project.

ATTACHMENTS:

1. List of Contractors who submitted bids, along with their respective bids.

STAFF RECOMMENDATION TO COMMITTEE:

Recommend to Village Board to award contract to the lowest responsible bidder.

Proper parliamentary procedure to deny a request is to have a motion made in the affirmative and by voting NAY would deny the request if a majority vote.

**BUSINESS OF THE PUBLIC WORKS AND HIGHWAY COMMITTEE
GERMANTOWN, WI**

MEETING DATE: February 1, 2017

AGENDA ITEM: New Business 

ITEM TITLE: Request to Release Retainer to All-Ways Contractors, Inc. for Catie Vista Storm Sewer Relay (Sylvan Circle)

SUBMITTED BY: John Laning, P.E., Village Engineer

SUMMARY EXPLANATION:

All-Ways Contractors, Inc. was contracted in 2015 to construct approximately 900 feet of storm sewer with the intent to mitigate a history of flooding in the aforementioned area. The project was successfully completed in 2015 and has now passed the one year warranty period. All contract requirements have been met; The Village of Germantown is holding \$5,174.95 in project retainage at this time.

ATTACHMENT: ORDINANCE _____ RESOLUTION _____ OTHER X

RECOMMENDATION:

Staff recommends the Public Works Committee approve the release of the contract retainer in the amount of \$5,174.95 to All-Ways Contractors, Inc. which was held during the one year warranty period for the Catie Vista Storm Sewer Relay Project. This action will officially close out the above referenced contract.

COMMITTEE ACTION:

Proper parliamentary procedure to deny a request is to have a motion made in the affirmative and by voting NAY would deny the request if a majority vote.

**BUSINESS OF THE PUBLIC WORKS AND HIGHWAY COMMITTEE
GERMANTOWN, WI**

MEETING DATE: February 1, 2017

AGENDA ITEM: New Business J

ITEM TITLE: Request for Approval of the Finalized List of Proposed 2017 Street Projects

SUBMITTED BY: John Laning, P.E., Village Engineer

SUMMARY EXPLANATION:

Staff will hand out at the meeting, the proposed list of roads to be improved as part of the Village's Annual 2017 Road Improvements Project; scheduled for bidding in March, 2017. The roads proposed for construction are part of the Village's Five Year Road Improvements Plan and slated for construction in 2017. Staff seeks approval of these roads as the finalized list to be bid and constructed this year.

ATTACHMENT: ORDINANCE _____ RESOLUTION _____ OTHER X

RECOMMENDATION:

Staff recommends approval of the proposed roads, as presented, for bidding and construction in 2017.

COMMITTEE ACTION:

Proper parliamentary procedure to deny a request is to have a motion made in the affirmative and by voting NAY would deny the request if a majority vote.

**BUSINESS OF THE PUBLIC WORKS & HIGHWAYS COMMITTEE
GERMANTOWN, WI**

MEETING DATE: February 1, 2017

AGENDA ITEM: New Business K

ITEM TITLE: Village Labor & Equipment Rates - 2017

SUBMITTED BY: Lawrence W Ratayczak, P.E., Director of Public Works

SUMMARY EXPLANATION:

As the Village may be requested for personnel or equipment to assist in a project, staff typically prepares a list of rates to be charged for labor and equipment. For 2017 staff is recommending a 2% rate increase for labor and a 3% rate increase for equipment.

ATTACHMENT: ORDINANCE_____ RESOLUTION_____ OTHER X

Suggested Labor and Equipment Rates for 2017.

RECOMMENDATION:

Staff recommends that the Public Works Committee forward on to the Village Board with a positive recommendation for approval.

COMMITTEE ACTION:

Proper parliamentary procedure to deny a request is to have a motion made in the affirmative and by voting NAY would deny the request if a majority vote.

LABOR RATES -- 2017

VILLAGE OF GERMANTOWN

POSITION DESCRIPTION	Annual Hourly Rates	
	2016	2017
Director of Public Works	\$72.21	\$73.65
Village Engineer	\$60.83	\$62.05
Project Engineer	\$52.40	\$53.45
Engineer Tech III / Land Surveyor	\$45.97	\$46.89
Land Surveyor/Survey Crew w/Robot	\$133.66	\$136.33
Highway Superintendent	\$52.09	\$53.13
Zoning Administrator/Planner	\$59.18	\$60.36
Civil Engineer	\$38.79	\$39.57
Record Drawing Documentation Preparation	\$46.14	\$47.06
Construction Inspection	\$46.14	\$47.06
Highway Maintenance Worker II	\$43.70	\$44.57
Highway Operators (Traffic Signals)	\$50.74	\$51.75
Water Superintendent	\$52.09	\$53.13
Waste Water Superintendent	\$52.09	\$53.13
Utility Operator	\$44.83	\$45.73
Clerical	\$35.34	\$36.05

NOTE: 2017 rates reflect a 2% increase to the 2016 wages.

EQUIPMENT RATES -- 2017

VILLAGE OF GERMANTOWN

Annual Hourly Rates

EQUIPMENT DESCRIPTION	2016	2017
Cruz-Air	\$62.20	\$64.07
Case Backhoe & Loader	\$36.72	\$37.82
Michigan Loader	\$46.92	\$48.33
Case/John Deer Loader/Snow Plow	\$79.56	\$81.95
Case/John Deer Loader/Snow Blower	\$108.12	\$111.36
Single Axle Dump Truck (5yd)	\$33.66	\$34.67
Single Axle Dump Truck w/Plow/Aux. Wing/Sander (5 yd)	\$54.06	\$55.68
Tandem Axle Dump Truck	\$44.88	\$46.23
Tandem Axle Dump Truck w/Plow/Aux. Wing/Sander	\$66.30	\$68.29
4 Wheel Oshkosh w/Plow/Wing/Sander	\$108.12	\$111.36
1-Ton Patrol Truck (2-3 yd)	\$25.50	\$26.27
1-Ton Truck w/Plow	\$31.62	\$32.57
Truck w/Water Jetter w/Aux. Power Unit	\$51.00	\$52.53
Aerial Lift Truck	\$63.24	\$65.14
Pickup Truck	\$19.89	\$20.49
Pickup Truck w/Plow	\$28.56	\$29.42
Self Propelled Vibrating Roller	\$38.76	\$39.92
Self Propelled Non-Vibratory Roller	\$35.70	\$36.77
185 cfm Air Compressor (Portable)	\$28.56	\$29.42
Street Sweeper 40 Hp w/Front Mounted Broom	\$37.74	\$38.87
Vacuum Sweeper	\$83.64	\$86.15
Vac All	\$87.72	\$90.35
Sewer line Televising Truck	\$118.32	\$121.87
Combination Sewer Machine (pipe jetter & vac)	\$142.80	\$147.08
Mini Excavator	\$50.00	\$51.50
Skid Steer Loader w/Bucket	\$32.64	\$33.62
Skid Steer Loader w/Snow Blower/Broom	\$35.70	\$36.77
Tar Kettle	\$34.68	\$35.72
Motorized Mower (24" & Under)	\$13.52	\$13.93
Motorized Mower (25"-47")	\$18.87	\$19.44
Motorized Mower (48" & larger)	\$21.93	\$22.59
Tractor w/Sickle or Flail Mower	\$46.92	\$48.33

Chain Saw	\$12.50	\$12.88
Hydraulic Saw	\$12.50	\$12.88
Hydraulic Pruner	\$12.50	\$12.88
Chipper	\$40.80	\$42.02
Generator (225 Kw)	\$58.14	\$59.88
Generator (Under 10 Kw)	\$25.50	\$26.27
Trailer Mounted Vacuum Excavator	\$85.68	\$88.25
6 " Pump/Hose	\$31.62	\$32.57
4" Pump/Hose	\$26.52	\$27.32
3" Pump/Hose	\$21.93	\$22.59
Barricades-----DAILY COST	\$3.06	\$3.15
Traffic Control Signs-----DAILY COST	\$1.53	\$1.58
NOTE: 2017 rates reflect a 3% increase of 2016 rates		