

**AGENDA**  
**PUBLIC WORKS & UTILITIES COMMITTEE**  
**Village of Hoffman Estates**  
**November 26, 2018**

*Immediately Following Finance Committee*

Members:	Anna Newell, Chairperson	Gary G. Stanton, Trustee
	Michael Gaeta, Vice Chairperson	Karen J. Arnet, Trustee
	Gary Pilafas, Trustee	William McLeod, Mayor
	Karen V. Mills, Trustee	

- I. Roll Call**
- II. Approval of Minutes – October 22, 2018**

**NEW BUSINESS**

- 1. Request authorization to waive bidding and purchase one (1) replacement Doosan 100KW portable generator through Sourcewell (formerly NJPA) Contract pricing from Roland Machinery, Bolingbrook, IL in an amount not to exceed \$58,301.
- 2. Energy Performance Contract Update Discussion.

**REPORTS (INFORMATION ONLY)**

- 1. Department of Public Works Monthly Report.
- 2. Department of Development Services Monthly Engineering Report of the Transportation and Engineering Division.

- III. President's Report**
- IV. Other**
- V. Items in Review**
- VI. Adjournment**

*(Further details and information can be found in the agenda packet attached hereto and incorporated herein and can also be viewed online at [www.hoffmanestates.org](http://www.hoffmanestates.org) and/or in person in the Village Clerk's office).*

*The Village of Hoffman Estates complies with the Americans with Disabilities Act (ADA). For accessibility assistance call the ADA Coordinator at 847/882-9100.*

**Village of Hoffman Estates**

**DRAFT  
October 22, 2018**

**PUBLIC WORKS & UTILITIES COMMITTEE  
MEETING MINUTES**

**I. Roll call**

**Members in Attendance:** Trustee Anna Newell, Chairperson  
Trustee Michael Gaeta, Vice Chairperson  
Trustee Karen Mills  
Trustee Gary Stanton

**Members via phone:** Trustee Gary Pilafas

**Members Absent:** Trustee Karen Arnet  
Mayor William McLeod

**Management Team Members  
in Attendance:**

Jim Norris, Village Manager  
Mark Koplín, Asst. Vlg. Mgr. – Dev. Services  
Ted Bos, Police Chief  
Rachel Musiala, Director of Finance  
Monica Saavedra, Director of HHS  
Joe Nebel, Director of Public Works  
Fred Besenhoffer, Director of IS  
Pat Fortunato, Fire Chief  
Patti Cross, Asst. Corporation Counsel  
Alan Wenderski, Village Engineer  
Bruce Anderson, CATV

The Public Works & Utilities Committee meeting was called to order at 7:19 p.m.

**II. Approval of Minutes**

Motion by Trustee Gaeta, seconded by Trustee Stanton, to approve the minutes of the Public Works & Utilities Committee meeting of September 24, 2018. Roll call vote taken. All ayes. Motion carried.

**NEW BUSINESS**

**1. Discussion regarding 2018-2019 Snow/Ice Control Policy and Procedure Manual.**

Mr. Nebel provided comments. No major changes to the plan overall.

**2. Discussion regarding paint color selection and Village Name Orientation for Stonington Water Tower (T-2) and Huntington Water Tower (T-4).**

Mr. Nebel provided a detailed report of options which was discussed at length by the board. Mr. Norris provided additional feedback and information and indicated the board would be presented with renderings in the near future.

**3. Request approval to reject the sole bid received for Public Works Aster Lane Storage Building Roofing and Fascia Replacement.**

Mr. Nebel provided comments.

Motion by Trustee Gaeta, seconded by Trustee Stanton, to reject the sole bid received for Public Works Aster Lane Storage Building Roofing and Fascia Replacement. Roll call vote taken. All ayes. Motion carried.

**4. Request approval of an Ordinance approving the execution of an Intergovernmental Agreement for motor fuel service with the Township of Schaumburg.**

Mr. Norris provided background on the request and further details. Trustee Stanton and Mayor McLeod inquired about options to terminate if desired/needed.

Motion by Trustee Stanton, seconded by Mayor McLeod, to amend Provision 5 of an Ordinance approving the execution of an Intergovernmental Agreement for motor fuel service with the Township of Schaumburg. Roll call vote taken. All ayes. One recusal (Trustee Newell). Motion carried.

Motion by Trustee Gaeta, seconded by Mayor McLeod, to approve an Ordinance approving the execution of an Intergovernmental Agreement for motor fuel service with the Township of Schaumburg. Roll call vote taken. All ayes. One recusal (Trustee Newell). Motion carried.

**5. Request authorization to extend 2017 contract for 2019 Contracted Parkway Tree Trimming Program to Winkler's Tree and Landscaping Inc. La Grange, IL (low bid), in an amount not to exceed \$50,000.**

Motion by Trustee Gaeta, seconded by Mayor McLeod, to extend 2017 contract for 2019 Contracted Parkway Tree Trimming Program to Winkler's Tree and Landscaping Inc. La Grange, IL (low bid), in an amount not to exceed \$50,000. Roll call vote taken. All ayes. Motion carried.

**6. Request authorization to award contract for 2018–2019 Front End Loader winter rentals to Alta Equipment Co., Spring Grove, IL (low bid), in an amount not to exceed \$37,740.00.**

Trustee Stanton noted the price variation among companies. Mr. Nebel provided comment.

Motion by Trustee Gaeta, seconded by Mayor McLeod, to award contract for 2018–2019 Front End Loader winter rentals to Alta Equipment Co., Spring Grove, IL (low bid), in an amount not to exceed \$37,740.00. Roll call vote taken. All ayes. Motion carried.

**7. Request authorization to award contract for State of Illinois joint purchase of 2018-2019 winter road salt to Morton Salt, Inc., Chicago, IL, at a unit price of \$48.97 per ton, in an amount not to exceed \$211,550.**

Motion by Trustee Gaeta, seconded by Mayor McLeod, to award contract for State of Illinois joint purchase of 2018-2019 winter road salt to Morton Salt, Inc., Chicago, IL, at a unit price of \$48.97 per ton, in an amount not to exceed \$211,550. Roll call vote taken. All ayes. Motion carried.

**REPORTS (INFORMATION ONLY)**

**1. Department of Public Works Monthly Report.**

The Public Works Monthly Report was received and filed.

**2. Department of Development Services Monthly Engineering Report of the Transportation and Engineering Division.**

The Department of Development Services Monthly Engineering Report of the Transportation & Engineering Division was received and filed.

**III. President’s Report**

**IV. Other**

**V. Items in Review**

**VI. Adjournment**

Motion by Trustee Gaeta, seconded by Trustee Stanton, to adjourn the meeting at 7:57 p.m. Roll call vote taken. All ayes. Motion carried.

Minutes submitted by:

\_\_\_\_\_  
Jennifer Djordjevic, Director of Operations &  
Outreach / Office of the Mayor and Board

\_\_\_\_\_  
Date

**COMMITTEE AGENDA ITEM  
VILLAGE OF HOFFMAN ESTATES**

**SUBJECT:** Request authorization to waive bidding and purchase one (1) replacement Doosan 100KW portable generator through Sourcewell (formerly NJPA) Contract pricing from Roland Machinery, Bolingbrook, IL in an amount not to exceed \$58,301.

**MEETING DATE:** November 26, 2018

**COMMITTEE:** Public Works & Utilities

**FROM:** Joseph Nebel, Director of Public Works  
Kelly Kerr, Assistant Director of Public Works  
Bob Markko, Fleet Services Supervisor  
Tom Burnitz, Water Operations Supervisor

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**PURPOSE:** This specific purchase is for one (1) Doosan 100KW portable generator to be mounted on a trailer equipped with engine block heater, 120 volt battery charger, drawbar mounted toolbox and camlocks.

**BACKGROUND:** Included in the 2018 budget is a \$63,600 allocation (line account #40407425-4602) to replace current fleet unit #309, a twenty six year old 100KW portable generator used for emergency power at water/sewer facilities and various other needs.

**DISCUSSION:** The Village joined the NJPA (now Sourcewell) in 2010 and has utilized this firm on numerous occasions to secure better pricing on a number of vehicles and various equipment including numerous plow trucks, a grapple truck, backhoes, etc. Sourcewell's awarded contract firm for generator type equipment is Roland Machinery, Bolingbrook, IL. Their discount contract price for outfitting one (1) Doosan 100KW portable generator to \$58,301. Staff research indicates that this is a competitive price for this generator.

**FINANCIAL IMPACT:** \$63,600 allocated versus \$58,301 Doosan 100KW portable generator from Roland Machinery purchase recommendation yields a \$5,299 surplus. This amount will be used to outfit the generator with additional power cables and equipment.

**RECOMMENDATION:** Request authorization to waive bidding and purchase one (1) replacement Doosan 100KW portable generator from Roland Machinery, Bolingbrook, IL in an amount not to exceed \$58,301.

Hoffman Estates, Illinois  
 4 Year Capital Improvements Program

Information

100KW Portable Generator Unit #309  
 Retain from Previous CIP - Updated Costs  
 2305 Pembroke Avenue

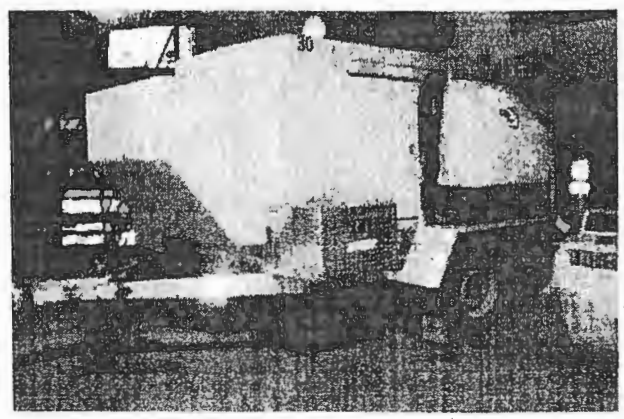
Department: PW - Water & Sewer  
 Project Type: 90 - Non-automotive Equip  
 Acct. Number: 40407425-4602

Other Projects:

1992 DMT 100CA Generator  
 001  
 Date: 1/1/2018  
 Cost: 1,678

Description	2017 Budget	2017 Estimate	2018	2019	2020	2021	2022	2023	2024	2025	Total 2018-2025
Generator	-	-	63,600	-	-	-	-	-	-	-	63,600
<b>TOTAL COSTS</b>	\$ -	\$ -	\$ 63,600	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 63,600
Source of Funds	-	-	63,600	-	-	-	-	-	-	-	63,600
<b>TOTAL FUNDS</b>	\$ -	\$ -	\$ 63,600	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 63,600

This is a 1992 model 100KW portable generator used for emergency power at water/sewer facilities and various other needs. this replacement request entered the CIP in 2011-2015 for 2015. Annual evaluation of unit's current condition pushed replacement recommendation to 2018.





Roland Machinery Company  
 220 E Frontage Rd.  
 Bolingbrook, IL 60440  
 PHONE 630-739-7474



**CUSTOMER QUOTE SUMMARY**

Customer	Village of Hoffman Estates		
Address	2405 Pembroke Ave.		
City	Hoffman Estates	State	IL ZIP 60169
Phone	Bob Markko 847-781-2719		

Date	8/24/2018
Attn:	Bob Markko
Salesman	Tim Stratsinsky
Cell	630-542-6166
FOB	See below

Qty	Description	Unit Price	TOTAL
<b><u>Sourcewell Bid Hoffman Estates account # 36488</u></b>			
1	New Doosan model G125WCU-3A-T4F portable generator equipped with: *** Tier 4 final Cummins diesel engine (169HP) *** Prime output of 100 KW @ 480V-3 phase power *** Road trailer and towing lights *** 3-Position voltage selector switch *** Runtime of 24.5 hours @ 100% load *** Sound level of 68 dba  <b>Options Included:</b> Engine block heater 120 volt battery charger Drawbar mounted toolbox Camlocks  <b>Sourcewell breakdown on pricing:</b>  G125WCU w/ cold start                      List \$86,500.00 Toolbox    List \$767.00 Camlocks    List \$1,167.00 Engine block heater                            List \$367.00 120 volt battery charger                    List \$317.00 Total list    \$89,118.00 Less 36% discount <b>\$57,036.00</b>	\$57,036.00	<b>\$57,036.00</b>
1	Incoming ftt. To Bolingbrook and delivery to Hoffman Estates	\$965.00	<b>\$965.00</b>
1	Pre delivery charge with 20 gallons of fuel	\$300.00	<b>\$300.00</b>
Prices subject to applicable Sales Taxes			

SubTotal	\$ 58,301.00
Shipping	Included
8.5% Tax	not applicable
<b>TOTAL NET DUE</b>	<b>\$ 58,301.00</b>

Acceptance

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Sourcewell #36488

*Thank you for considering Roland Machinery Company for your equipment needs. If you have any questions, please do not hesitate to call me directly @ 630-542-6166.*





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**Quotation  
Caterpillar Electric Power Generator Set**

October 24, 2018

Ref # GK30347401

Submitted to: Robert Markko @ Hoffman estates Public Works

Project Name: Facility Caterpillar Trailer 100kW Generator

We submit to you Patten Power System's quotation for the Caterpillar model engine driven generator set and accessories. This offer is to sell one (1) new Caterpillar Model XQ100 generator set rated 100 kilowatts, Continuous Duty at .8 Power Factor. This system includes the standard accessories provided by Caterpillar with optional peripheral equipment and services as identified in this proposal through our interpretation of the project requirements.

Top-level equipment and services offerings provided under this proposal:

- Caterpillar Diesel Fueled 100 kW MultiVAC Standby Rated Generator
- Tier 4 Final Engine Technologies
- Cables (100 Ft), Box, Camlock quick connects
- Boom LED Job site Lights
- Illinois Legal Registered 2 Axle Trailer
- Start-up and Training

Additionally, we have detailed the equipment configuration and services relative to our understanding of these requirements in the body of this document. Please check it for correctness and completeness to be certain that it meets your needs. Please contact us for any clarifications or refinements that may be necessary to meet the scope of the project, as you understand it.

At the conclusion of this quote you will find the quoted price and additional commercial related information regarding the terms of this sale. Thank you for considering Patten Power Systems and the opportunity to provide your equipment and service needs. We are firmly committed to providing the best possible support and service during the life cycle of this project.

Sincerely,

Greg Klyczek / Sales Engineer  
ALTORFER / Caterpillar

**Grayslake**  
205 South Route 83  
Grayslake, Illinois 60030  
847.548.1177  
847.548.1166 fax

**Oglesby**  
590 Mayer Street  
Oglesby, Illinois 61348  
815.883.3336  
815.883.8043 fax

**1 Rockford**  
5055 South Main St.  
Rockford, Illinois 61102  
815.965.8631  
815.965.1179 fax

**Hammond**  
6400 Indianapolis Blvd.  
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**Standard Equipment Caterpillar 60 kW Trailer Unit:****Engine**

- ✓ One New Caterpillar Model XQ100 diesel engine driven generator set, rated at 100 kW stand-by, .8 power factor, 3 phase, 3 wire, 60 hertz at 1800 rpm
- ✓ Emission control engine, Tier 4F certified
- ✓ Structural steel base
- ✓ Engine mounted air cleaner
- ✓ Oil and fuel filter system
- ✓ Critical type silencer system

**Generator**

- ✓ Caterpillar 100 kW generator, standby rated, engine mounted and tested at the Caterpillar factory, Class H Insulation, 2/3 pitch, Self-excited generator
- ✓ R230 Voltage Regulator

**EMCP 4.2 Digital Control Panel****Instrumentation**

- ✓ LCD display with adjustable contrast and backlight with auto power off
- ✓ AC metering: Volts 3-phase (L-L & L-N); Amps (per phase & average); Frequency; kW (total & per phase); kVA (total & per phase); kVA<sub>r</sub> (total & per phase); Power Factor (overall & per phase); kW hours; kVA<sub>r</sub> hours
- ✓ DC metering: Battery Volts; Engine hours run; Engine Jacket Water Temperature (in °C or °F); Lube oil pressure (in psi, kPa or bar); Engine speed (rpm); Crank attempt counter; Start counter

**Protection**

- ✓ Fail to start shutdown
- ✓ Low oil pressure shutdown
- ✓ High engine temperature
- ✓ Approaching high coolant temperature alarm
- ✓ Approaching low oil pressure alarm
- ✓ Not in auto mode alarm
- ✓ Underspeed/Overspeed
- ✓ Loss of engine speed detection
- ✓ Low/High battery voltage
- ✓ Battery charger failure (if fitted)
- ✓ Under volts, over volts
- ✓ Under frequency, over frequency
- ✓ Overcurrent
- ✓ 4 Spare Channels
- ✓ 20 event fault log (name of event, engine hours at first occurrence of event, time stamp at first occurrence, engine hours at latest occurrence of event, time stamp at latest occurrence, number of occurrences of event)

**Controls**

- ✓ 2 LED status indicators (1 red shutdown, 1 amber warning)

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- ✓ Run key and LED indicator
- ✓ Auto key and LED indicator
- ✓ Stop key and LED indicator
- ✓ Lamp test key
- ✓ Alarm acknowledge key
- ✓ Menu navigation keys
- ✓ Engine and AC metering shortcut keys
- ✓ All control module keys have tactile feedback
- ✓ Lock down emergency stop push button.
- ✓ Real time clock.
- ✓ Service interval counter.
- ✓ CAN 2 accessory data link – for additional modules: remote annunciator, discrete input/output module.
- ✓ Modbus communications on 2 wire half duplex RS485 connection for remote customer monitoring.

**Sub-base Fuel Tank**

- ✓ UL 142 Double Wall Tank Base Tank
- ✓ 24 hours run @ 100% load
- ✓ Conduit access stub up area below breaker package
- ✓ Level Indicator
- ✓ Low Fuel Level Alarm Switch
- ✓ Fuel In Rupture Basin Switch

**Outdoor Sound Attenuated Enclosure**

- ✓ Compact, critical grade exhaust silencer. Exhaust silencing system includes exhaust pipe and rain cap.
- ✓ Durable weather-resistant finish
- ✓ 14GA steel, Insulated Walls and Exterior
- ✓ Lockable, gasketed doors provide secure access to routine maintenance items — battery, fuel fill, oil, and coolant
- ✓ Stainless steel flush fitting latches and hinges
- ✓ Radiator guard

**Lube System**

- ✓ **Lubricating oil**
- ✓ **Oil filter**
- ✓ **Oil drain line with valve piped to edge of base**
- ✓ **Fumes disposal piped to front of radiator**
- ✓ **Oil Cooler**

**Mounting System**

- ✓ Formed steel base
- ✓ Linear vibration isolators between base and engine-generator

**Starting System**

- ✓ Single 12-volt starting motor
- ✓ 12 V lead acid battery
- ✓ 5 Amps battery charger
- ✓ 65-amp charging alternator

**General**

- ✓ UL listed 80% rated 250A Circuit breaker, unit mounted

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- ✓ Paint, Caterpillar Yellow
- ✓ PGS Test Report @ 0.8 PF as per CAT Factory standards
- ✓ First fill of fuel by others
- ✓ First fill lubricating oil
- ✓ First fill antifreeze, installed
- ✓ Certified Caterpillar tests, non-witnessed at 0.8 power factor per NFPA
- ✓ (1) O & M Manuals

**Additional Equipment**

- Axle capacity 6,800lbs Each
- Torflex Suspension
- Carbon Steel construction
- Full fenders
- Coupler – 3” Lunette Eye (adjustable) & 2-5/16” ball
- Grade 70 safety chains with hooks
- Tongue jack with swivel wheel
- Rear Stabilizer Jacks (2)
- 12 ply Tires (includes spare)
- Trailer jack
- Steel Plate Floor
- DOT trailer wiring
  - Stop
  - Tail
  - Turn
  - License Plate
  - 6 Pin round connector
- License plate bracket
- Finish paint Black

**Technical Field Services to Include:**

Note: Field Services do not include initial fuel fill or replenishment, videotaping, sound measurements, or city permits for load testing on site.

**Installation Audit:**

A pre-start audit is included and to be performed by a Patten Power Systems Project Engineer prior to dispatching our field service technician to perform the equipment start-up. This will insure the equipment is installed per manufactures recommended practices and site work is complete. One (1) day is allocated to this project. These services are to be performed during normal business hours, Monday through Friday 7:30 am to 3:30 pm. Additionally, our local project managers are available for consult during the entire life of the project

**Equipment Start-up:**

One (1) day of on-site start-up testing and a 4-hour load bank test is included for only the equipment purchased through Patten Power Systems. Time allowed for one factory certified technician will be based on accessibility, site preparation and safety concerns for both equipment and personal. This includes systems preparation, equipment start-up and functional operational test utilizing building load only. These services will be performed during normal business hours, Monday through Friday 7:30 am to 3:30 pm. Additional personal

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required or revisits as dictated by the site, will require a written request for services with a change order by an authorized person and will be billed at prevailing rates.

**Training:**

The appropriate Patten personal will provide training on site after the unit has been commissioned and turned over to the owner. Time allotted for this training has been set at 4 hours. If more time is required, or additional sessions are required, arrangements can be negotiated.

**Warranty:**

Caterpillar two (2) year warranty applies unless extended service coverage is purchased. Standard manufacturers warranty applies to all non-Caterpillar equipment. Patten will administer all warranty claims during the appropriate warranty period. All other manufacturers warranty is for components only. Labor associated with these claims will be charged accordingly. Copy of warranty statements will be provided at project submittal.

**Availability:**

**Current factory lead-time is 25 weeks from receipt of released submittals.** Equipment submittal time is to be negotiated.

**Financial Terms:**

Net cash 30 days upon receipt of invoice, with credit approval. Equipment will be invoiced at the contracted amount when ready for shipment. Retainers are not allowed unless previously negotiated and are identified in this proposal. Late charges of 1-1/2% per month will be assessed for late payments and customer will also be responsible for any collection costs and expenses, including reasonable attorney's fees. Equipment storage fees may apply when delivery is not accepted when ready for shipment. Sales tax is **NOT** included in the purchase price and will be charged at the current tax rate, if applicable.

**Additional Terms and Conditions:**

The scope of supply for this quotation is limited to the equipment and services listed in this proposal. The customer is responsible for any and all installation of the above Equipment unless specifically modified by this proposal. All equipment needed to perform any loading or unloading of the Equipment supplied by Patten Power Systems is the responsibility of the customer unless specifically modified by this proposal. Unless specifically listed in our bill of material, equipment not indicated is to be supplied by others. We reserve the right to correct any errors or omissions. Customer's signature on this quotation or the issuance of a purchase order or other acknowledgement by customer for the Equipment shall constitute acceptance of this quotation subject only to the terms and conditions set forth herein notwithstanding any terms and conditions contained in any such purchase order or other acknowledgment or communication from the customer which are different from or in addition to the terms and conditions of this quotation. This quotation is subject to any applicable manufacturer's general terms and conditions of sale. Changes to the terms of this quotation may only be made by the express written agreement of Patten Power Systems. Patten Power Systems shall not be responsible for any consequential, special, indirect or liquidated damages hereunder or for any manufacturer or other delays beyond Patten's control. Patten Power Systems will not be responsible for any labor or material charges by others associated with the start-up and installation of this equipment unless previously agreed upon, in writing by Patten Power Systems. This quotation expires in 30 calendar days or sooner with notice and is subject to prior sale. The prices stated herein are subject to any manufacturer increases if the order is not released for manufacture within 90 calendar days from order date or, if drawings for approval are required, the drawings are not returned and released for manufacture within 30 calendar days of mailing date. For any completed order, scheduled for shipment, that is held, delayed or rescheduled at the request of the Buyer, Seller may, at its sole option, ship to storage, invoice, and transfer title, all at the sole cost and risk of

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loss of the Buyer. Buyer may terminate or cancel an order by written notice and upon payment of appropriate charges based upon a percentage of the quoted sales price at the stage of completion: 10% hold for approval status and 100% released for manufacture status.

**Exceptions and Clarifications:**

- ✓ Quotation is based on the information provided as no specs/drawings were made available. If actual job site conditions/local codes require a change in BOM, all such changes will be quoted and billed accordingly.
- ✓ There is no Cable or Plugs included in this pricing
- ✓ There is no Cable Reel in this pricing

**Total net purchase price for these product and services**

- Caterpillar Diesel Fueled 100 kW MultiVAC Standby Rated Generator
- Tier 4 Final Engine Technologies
- Cables (100 Ft), Box, Camlock quick connects
- Boom LED Job site Lights
- Illinois Legal Registered 2 Axle Trailer
- Start-up and Training

(FOB: Jobsite Tailgate)

**\$ 89,540.00 (plus tax)**

Should you have any questions or comments on this matter, please do not hesitate to contact us.

ACCEPTANCE:

ALTORFER POWER SYSTEMS

Customer Signature \_\_\_\_\_

Greg Klyczek \_\_\_\_\_

Email: klyczekg@pattencat.com

Phone: 630-516-4426

Mobile: 630-918-9362

Sales Engineer, Electric Power Generation

DATE: \_\_\_\_\_

Should you have any questions or comments on this matter, please do not hesitate to contact us.

This information is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law. No waiver of applicable privilege and/or protection against disclosure is intended. If you are not the intended recipient, you are hereby notified that any use of, dissemination, distribution or copy of this communication is strictly

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prohibited. If you receive this communication in error, please notify us immediately by telephone so that we can arrange return of the original message to us at no cost to you.

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Picture shown with optional trailer

**STANDBY  
PRIME**

**100 kW  
90 kW**

**60 Hz**

Voltage	Standby kW (kVA)	Prime kW (kVA)
208/120V	100 (125)	90 (112.5)
480/277V	100 (125)	90 (112.5)
240/139V	100 (125)	90 (112.5)

## FEATURES

### EPA TIER 3 AND CARB CERTIFIED FOR NON-ROAD MOBILE APPLICATIONS

### SOUND ATTENUATED ENCLOSURE

- The fully weatherproof enclosure incorporates an internally mounted exhaust silencer and is of extremely rugged construction in order to withstand the rough handling common on many construction sites.
- Highly corrosion resistant construction.
  - Body made from sheet steel components pretreated with zinc phosphate prior to polyester powder coating at 200° C (392° F)
  - Black stainless steel padlockable latches.
  - Zinc die cast hinges/grab handles.
- Excellent access for maintenance.
  - Two large doors on each side. Rear door for distribution/control panel.
  - Front panel for air discharge box access.
  - Lube oil and cooling water drains piped to exterior of the enclosure.
- Security and safety.
  - Safety glass control panel viewing window in a lockable access door.
  - Cooling fan and battery charging alternator fully guarded.
  - Fuel fill and battery can only be reached through lockable access doors.
- Transportability.
  - Tested and certified single point lifting eye.
  - Lifting points on baseframe.

### ROBUST DESIGN FOR RENTAL ENVIRONMENT

- Packages designed to survive in a rugged environment.

### MULTI-VOLTAGE DISTRIBUTION PANEL

- Simultaneous 3-phase voltage output: 480/277 volt, 208/120 volt and adjustable for 3-phase 240 volt output.\*

### REAR CUSTOMER ACCESS

- Separate control panel and distribution panel access doors.
- Hinged door over main bus connectors.
- Emergency stop on panel.
- Remote start/stop contacts.

### ENVIRONMENTALLY FRIENDLY DESIGN

- EPA Tier 3 off-highway compliant engine.
- UL double walled fuel tank base with 24 hour minimum fuel supply.
- Sound attenuated enclosure for low noise.

### ELECTRONIC GOVERNING

- Isochronous.
- Fully adjustable.

### OPTIONS

- AH1L – Anti-condensation heater 110-120 volt AC.
- WHL – Coolant heater 110-120 volt AC.
- PBC3UL – UL Listed battery charger.
- Tandem Axle Trailers with hydraulic or electric brakes.

\* Refer to distribution panel specifications for details.



## STANDARD FEATURES

### 1. ENGINE

Heavy duty industrial EPA Tier 3 diesel engine.

#### 1.1 Governor

Electronic, compliant with BS5514, Class G2.

#### 1.2 Electrical System

12 volt DC. Energized to run shutdown solenoid. Oil pressure and coolant temperature/level shutdown switches and gauge senders.

#### 1.3 Derates

Genset power derates will be required in accordance with engine manufacturers above 39° C (102° F).

### 2. COOLING RADIATOR

Radiator and cooling fan complete with protection guards, designed to cool the engine in ambient temperatures up to 43° C (110° F) without derate.

### 3. ENGINE FILTRATION SYSTEM

Cartridge type dry air filters with restriction indicator. Dry, 2 stage cyclonic paper element. Cartridge type fuel filters and full flow lube oil filters. All filters have replaceable elements.

### 4. EXHAUST SYSTEM

Critical silencer with flexible connector. All internal pipework lagged.

### 5. ELECTRICAL SYSTEM

12 volt system with 65A battery charging alternator and starter motor on engine, battery rack mounted on the generator set baseframe. Includes a 12V (880 CCA) Cat® brand maintenance free battery. Optional battery charger mounted on control panel.

### 6. GENERATOR

Screen protected and drip-proof, self exciting, self-regulating brushless generator with fully interconnected damper windings, IC06 cooling system and sealed-for-life bearings. Simultaneous multi-voltage output.

#### 6.1 Insulation System

The insulation system is Class H. Windings are impregnated in a triple dip thermo-setting moisture, oil and acid resisting polyester varnish. Heavy coat of anti-tracking varnish for additional protection against moisture or condensation.

#### 6.2 Electrical Characteristics

Electrical design in accordance with BS5000 Part 99, IEC60034-1, EN61000-6, NEMA MG-1.22.

#### 6.3 Automatic Voltage Regulator (AVR)

The fully sealed automatic voltage regulator maintains the voltage within the limits of  $\pm 0.5\%$  at steady state from no load to full load.

Nominal adjustment is by means of a trimmer incorporated in the AVR. The panel door incorporates an additional voltage adjustment potentiometer.

#### 6.3.1 Permanent Magnet Generator

Providing 350% short circuit capabilities, enhanced motor starting and non-linear loading performance.

#### 6.4 Waveform Distortion, THF and TIF Factors

The total distortion of the voltage waveform with open circuit between phases or phase and neutral is in the order of 1.8. On a 3-phase balanced harmonic-free load the total distortion is < 4%. Machines are designed to have a THF less than 2% and a TIF less than 50. A 2/3 pitch factor is standard on all stator windings.

#### 6.5 Radio Interference

Suppression is in line with the provisions of EN61000-6.

### 7. MOUNTING ARRANGEMENT

#### 7.1 Baseframe

The complete generator set is mounted on a heavy duty fabricated steel baseframe. The baseframe includes a UL listed dual wall closed top fuel tank and incorporates specially designed lifting points.

#### 7.2 Coupling

The engine and generator are directly coupled by means of an SAE flange so that there is no possibility of misalignment after prolonged use. The engine flywheel is flexibly coupled to the generator rotor and a full torsional analysis has been carried out to guarantee no harmful vibration will occur in the assembly.

#### 7.3 Anti-Vibration Mounting Pads

Captive anti-vibration pads are affixed between engine/generator feet and the baseframe ensuring complete vibration isolation of the rotating assemblies.

#### 7.4 Safety Guards

The fan, fan drive and optional battery charging alternator drive are fully guarded for personnel protection. Heat guards protect personnel from the exhaust pipe. All guards are to OSHA standards.-

### 8. FUEL SYSTEM

Fuel feed and return lines to the engine are terminated at the baseframe mounted 24 hour extended capacity fuel tank. 3-way valves allow connection of auxiliary fuel tank.

#### 8.1 Primary Fuel Filters

Primary fuel filters in addition to cartridge type fuel filters.

### 9. CONTROL SYSTEM

#### 9.1 Control Panel

EMCP 4.2 in a vibration isolated NEMA 1 sheet steel enclosure with a hinged lockable door.

#### 9.2 DC and AC Wiring Harnesses

DC and AC wiring harnesses utilizing industrial type multi-pin connectors to permit fast fault finding.

### 10. DISTRIBUTION PANEL

#### 10.1 Dual Bus Connections

NEMA 1 enclosure with hinged lockable door and main bus connection studs enclosed with hinged transparent cover for easy access and operator safety.

#### 10.2 Circuit Breakers, Two

3-pole UL/CSA listed molded case circuit breaker with solid neutral (4 wire) and integral trip unit.

#### 10.3 Multiple power receptacles

Receptacles accept industry standard male plugs. Each receptacle is protected by a circuit breaker which also acts as an on/off switch.

### 11. DOCUMENTATION

A full set of operation and maintenance manuals, circuit wiring diagrams, and instruction leaflets is provided.

### 12. SOUND ATTENUATED ENCLOSURES

A noise reducing enclosure surrounds the entire generator set. Combined with a critical engine silencer this provides an overall noise reduction from 65 to 68 dBA at 23 feet through the range.

### 13. FACTORY TESTS

The generator set is load tested before dispatch. All protective devices, control functions and site load conditions are simulated; the generator and its systems checked, proved and then passed for dispatch.

### 14. EQUIPMENT FINISH

All sheet metal components including the enclosure and the base tank are fully degreased, phosphated and chromated for anti-corrosive protection prior to painting with polyester powder. The powder is cured at a temperature of 200° C (392° F) to ensure maximum scuff resistance and durability. All fasteners are electroplated.

### 15. STANDARDS

The equipment meets the following standards: BS4999, BS5000, BS5514, IEC60034, EN61000-6, NEMA MG-1.22.

### 16. WARRANTY

Full manufacturer's warranty.

**STANDBY**  
**PRIME**  
**60 Hz**

**100 kW**  
**90 kW**



**XQ100**

Materials and specifications are subject to change without notice.

Generator Set Technical Data – 1800 rpm/60 Hz			Standby		Prime	
	kW	(kVA)	100	(125)	90	(112.5)
<b>Lubricating System</b> Type: full pressure Oil filter: spin-on, full flow Oil cooler: water cooled Oil type required: API CF-4 Total oil capacity Oil pan	L	(U.S. gal)	8.0	(2.1)	8.0	(2.1)
	L	(U.S. gal)	7.0	(1.8)	7.0	(1.8)
<b>Fuel System</b> Generator set fuel consumption 100% load 75% load 50% load Fuel tank capacity	L/hr	(gal/hr)	29.1	(7.7)	26.9	(7.1)
	L/hr	(gal/hr)	23.5	(6.2)	21.8	(5.8)
	L/hr	(gal/hr)	17.6	(4.6)	16.4	(4.3)
	L	(U.S. gal)	634	(167)	634	(167)
<b>Running Time @ 75%</b>	hours		27		29	
<b>Cooling System</b> Radiator system capacity including engine	L	(U.S. gal)	17.1	(4.49)	17.1	(4.49)
<b>Air Requirements</b> Combustion air flow Maximum air cleaner restriction Radiator cooling air (within enclosure) Generator cooling air	m <sup>3</sup> /min	(cfm)	8.4	(297)	8.5	(300)
	kPa	(in H <sub>2</sub> O)	8.0	(32.2)	8.0	(32.2)
	m <sup>3</sup> /min	(cfm)	230	(8,135)	230	(8,135)
	m <sup>3</sup> /min	(cfm)	26.4	(933)	26.4	(933)
<b>Exhaust System</b> Exhaust flow at rated kW Exhaust temperature at rated kW – dry exhaust	m <sup>3</sup> /min	(cfm)	17.5	(618)	16	(572)
	°C	(°F)	522	(972)	524	(975)
<b>Generator Set Noise Rating*</b> [with enclosure at 7 meters (23 feet)]	dBA		68.2		68.0	

\*dBA levels are for guidance only

**SPECIFICATIONS**

**GENERATOR**

Voltage regulation ..... ± 0.5% at steady state  
from no load to full load  
Frequency regulation ..... ± 0.25% for constant load from  
no load to 100% load  
Waveform distortion ..... THD < 4%  
Radio interference ..... Compliance with EN61000-6  
Telephone interference ..... TIF < 50, THF < 2%  
Overspeed limit ..... 2250 rpm  
Insulation ..... Class H  
Temperature rise ..... Within Class H limits  
Available voltages ..... Simultaneous 3-phase voltage output:  
480/277 volt, 208/120 volt and  
adjustable for 3-phase 240 volt output  
Deration ..... Consult factory for available outputs  
Ratings ..... At 30° C (86° F), 152.4 m (500 ft)  
60% humidity, 0.8 pf

**ENGINE**

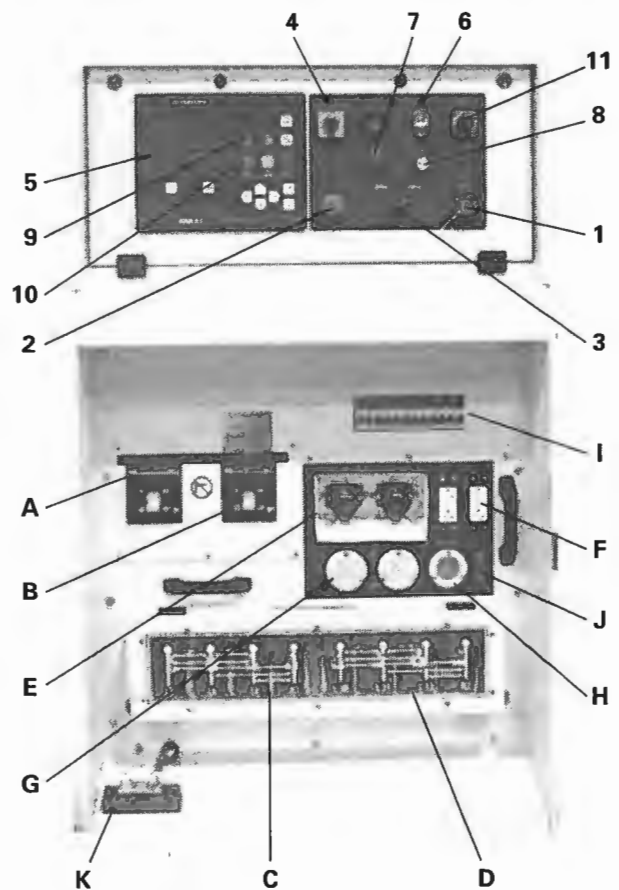
Manufacturer ..... Caterpillar  
Model ..... C 4.4  
Type ..... 4-cycle  
Aspiration ..... Turbocharged  
Cylinder configuration ..... In-line 4  
Displacement – L (cu in) ..... 4.4 (269)  
Bore – mm (in) ..... 105 (4.13)  
Stroke – mm (in) ..... 127.0 (5.0)  
Compression ratio ..... 18.3:1  
Governor  
Type ..... Fully Electronic  
Class ..... ISO 8528-5 G2  
Piston speed – m/sec (ft/sec) ..... 7.62 (25.0)  
Engine speed – rpm ..... 1800  
Maximum power at rated rpm – kW (hp)  
Standby ..... 117.0 (156.0)  
Prime ..... 106.0 (142.0)  
BMEP – kPa (psi)  
Standby ..... 1612 (233)  
Prime ..... 1771 (257)  
Regenerative power – kW (hp) ..... 13.8 (18.5)

**CONTROL PANEL – EMCP 4.2**

- 1 Electronic Service Tool Link.
- 2 Red emergency stop push button.
- 3 AC sensing selector switch.
- 4 Panel on/off switch.
- 5 Digital display for AC/DC metering.
- 6 EMCP Disconnect Switch.
- 7 Fuel View Switch.
- 8 Voltage adjust potentiometer.
- 9 Shutdowns: high coolant temperature/low coolant level, low oil pressure, overcrank, overspeed.
- 10 Run/auto/stop pushbuttons.
- 11 Panel light on/off switch.

**DISTRIBUTION PANEL**

- A 400 amp main circuit breaker for 208/120 volt bus connections.
- B 250 amp main circuit breaker for 480/277 volt bus connections.
- C Separate bus connection studs for 480/277 volt and 208/120 volt, 3-phase simultaneous output.\*
- D 240/139 volt, 3-phase available from 208/120 volt bus bar connections with voltage adjustment.\*\*
- E 2 – single phase – California style Twistlocks, 50 amps @ 208 volt phase to phase, 120 volt phase to neutral or 240 volt phase to phase, 139 volt phase to neutral.
- F 2 – single phase – GFCI Duplex receptacles, 20 amps @ 120 volts.\*\*\*
- G 2 – three phase – NEMA locking receptacles, 20 amps @ 208/120 volts.\*\*\*
- H 1 – single phase – NEMA locking inlet receptacle for 125 volt, 30 amp rated auxiliary supply.
- I Individual circuit breaker protection for receptacles. Also act as on/off switches.
- J Two wire remote start connection terminals.
- K Neutral ground connection.



\* Either set of bus bars is capable of supplying up to full rating. Total load from bus bars and receptacles cannot exceed rating of generator set. Generator is wye connected in all cases.  
 \*\* High voltage bus connections not useable with low voltage adjusted to 240 volts.  
 \*\*\* Receptacles not for use with low voltage adjusted to 240 volts.

**STANDBY**  
**PRIME**  
**60 Hz**

**100 kW**  
**90 kW**

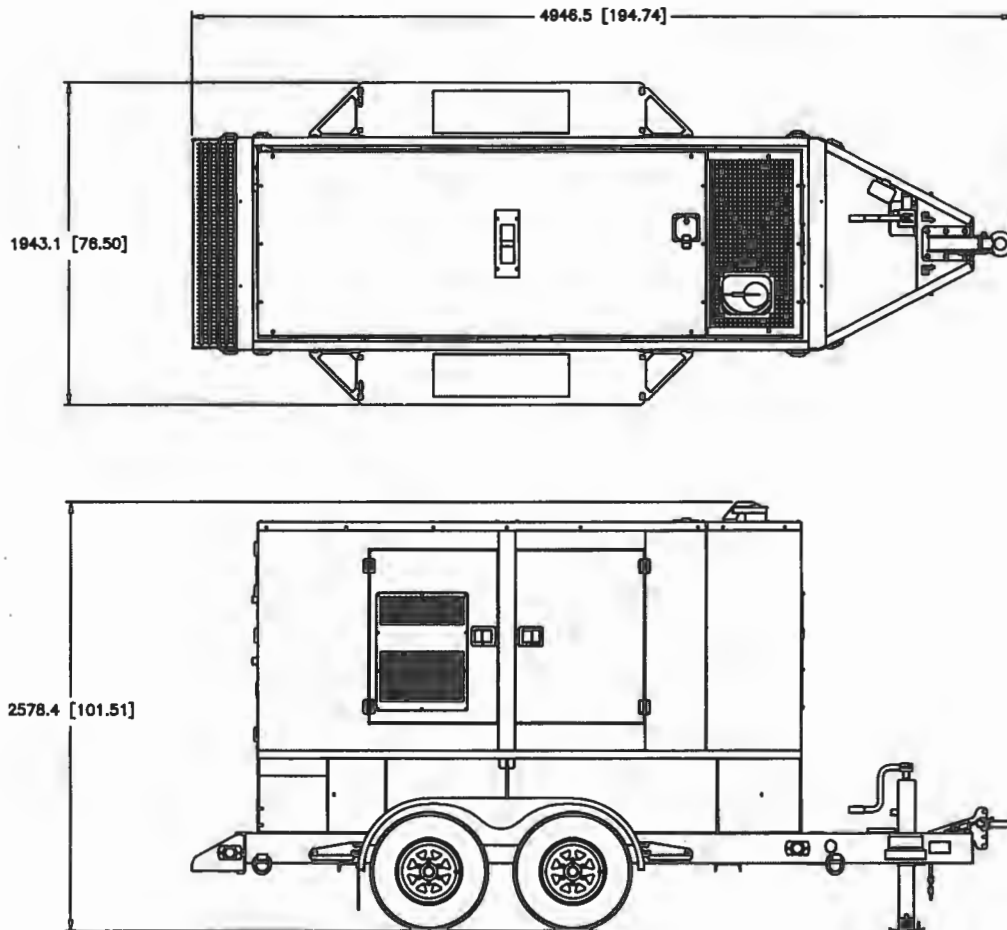


Model	Length mm (in)	Width mm (in)	Height mm (in)	Weight	
				With Lube Oil and Coolant kg (lb)	With Fuel, Lube Oil and Coolant kg (lb)
XQ100	3280 (129.1)	1130 (44.5)	1870 (73.6)	2495 (5,501)	3032 (6,684)
XQ100 w/trailer	4946.5 (194.74)	1943.1 (76.5)	2578.4 (101.5)	3214 (7,086)	3751 (8,269)

**RATING DEFINITIONS**

**Standby** - Applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings. The generator on the generator set is peak prime rated (as defined in ISO8528-3) at 30° C (86° F).

**Prime** - Applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and the generator set can supply 10% overload power for 1 hour in 12 hours.



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**COMMITTEE AGENDA ITEM  
VILLAGE OF HOFFMAN ESTATES**

**SUBJECT:** Energy Performance Contract Update Discussion

**MEETING DATE:** November 26, 2018

**COMMITTEE:** Public Works and Utilities

**FROM:** Joseph Nebel, Director of Public Works  
Aaron Howe, Management Analyst

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**PURPOSE:** To provide an update on the various components of the Energy Performance Contract.

**DISCUSSION:** Performance contracting is a method of completing large-scale energy saving projects without incurring major capital costs. This allows major upgrades to Village infrastructure and/or operating processes without major impacts to the budget. Performance contracted projects begin with an investment-grade audit of relevant facilities/utilities to provide the energy service company and the Village data as to the efficacy of a given project, including projected return on investment. Completed projects may have a performance guarantee that protects the Village from potential loss if projected savings are not realized in a given year, in which case the contracted firm would pay the Village an amount equal to the shortfall. This performance guarantee would be for a contractually agreed upon term based on the warranty or useful life of the projects actually performed. The main components currently being considered for inclusion in the audit are water meters, street lights, and various smaller facility upgrades. We are open to reviewing other energy savings projects that may be proposed through the process.

The following is a timeline of events relevant to the Village Energy Performance Contract request for proposals:

- On April 23, 2018, the Department of Public Works made a formal request to the Public Works & Utilities Commission to explore performance contracted energy and water management related projects via request for proposals.
- The Village posted a request for proposals for Energy Performance Contracting in May, 2018. This RFP directed respondents to focus on water meter replacement, LED street light conversion, Advanced Metering Infrastructure (AMI)

- installation, and other improvements at the respondent's discretion;
- The Department coordinated a Selection Committee including the Deputy Village Manager, Finance Director, Director of Public Works, Water & Sewer Superintendent, Superintendent of Facilities and Arena Maintenance, and Public Works Management Analyst to review all proposals received prior to the final deadline – August 20, 2018.
  - The Selection Committee met to determine which firms would be interviewed as a part of the selection process. It was determined that three of the five submissions were superior in their content and construction, qualifying those firms for an interview. Interviews were scheduled for the week of October 22, 2018.
  - Following interviews with each finalist, the Selection Committee chose Siemens Industry, Inc. as the firm that will best serve the interests of the Village for this project. Selection was made Friday, October 26, 2018.

#### *Investment-Grade Audit*

As the selected firm, Siemens will soon begin the investment-grade audit process. This includes a review of internal documentation from the Village's water billing software, bench-testing a sample of water meters from randomly selected residences, analysis of utility bills, GIS mapping data, and other energy-related review functions, as needed to create specific project proposals with ROI and, if the Village so chooses, performance guarantee. Siemens will also meet with staff to get ideas on items to include in the audit process. The audit is performed by Siemens with no financial obligation to the Village aside from material cost of meters changed out for audit related testing (annually a number of meters are already changed out by staff).

Upon completion of the investment-grade audit, Siemens will propose projects individually for selection by the Village. Project proposals will include specific details on the method of completion, anticipated cost, ROI, and other necessary details. The Village will then select only those projects that are deemed adequately beneficial to the Village. The Village also maintains the right to deny all proposed projects. Again the Village has no financial obligation, aside from the cost to replace the residential meters used for testing, throughout the audit process. The Village is not under any obligation until final projects are selected and contract terms are agreed upon (should they be).

#### *Project Implementation*

At the completion of the energy audit, project implementation will be determined by which projects, if any, are selected. Performance contracting provides an option for a turn-key, savings guaranteed process that protects the Village from loss while ensuring project completion within a single year, project dependent. Once the audit is completed these details will be reviewed by staff and those that seem beneficial will be brought to the Commission for review. Project financing, return on investment, and other impacts of project selection will be outlined and discussed as well.

#### **FINANCIAL IMPACT:**

Distribution of the RFP, selection of a firm, and the upcoming investment-grade audit have had no financial impact on the Village. The Village reserves the right to accept or reject any or all future project proposals received following the investment-grade audit.

Audit results and project proposals will be used in preparation of supporting documents and project recommendations for review at a later date.

**RECOMMENDATION:**

This item is for discussion purposes only. Staff is not requesting action at this time.



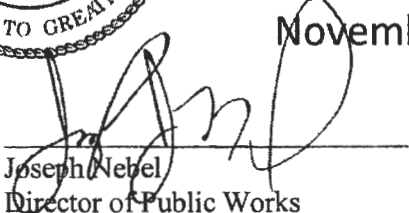
## VILLAGE OF HOFFMAN ESTATES

### DEPARTMENT OF PUBLIC WORKS

### October 2018 MONTHLY REPORT

SUBMITTED TO: Public Works Committee

November 2018

  
Joseph Nebel  
Director of Public Works

  
Kelly Kerr  
Assistant Director of Public Works

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#### MAJOR PROJECT STATUS

##### Village-wide Water Distribution System Leak Survey

Notice to proceed was issued to the contractor, Water Services, on October 9, 2018. Project kick-off meeting was held on October 11, 2018 and the work started the following day. By the end of October 40% of the Village's water distribution system excluding WDA, has been surveyed and a total of 7 leaks were found, including three hidden leaks on public system. Repair of 5 leaks is complete. The remaining two leaks have been stopped and repair is being planned as part of the replacement of 1,600 feet of water mains.

##### MWRD IICP Engineering

On July 2, 2018 the Village Board approved a contract with Baxter & Woodman Consulting Engineers for engineering and field services required for compliance with MWRD' Infiltration/Inflow Control Program (IICP). The services will cover the following areas:

1. Conduct a prioritized condition assessment of high risk public sanitary sewer system infrastructure through various inspection and testing methods.
2. Begin rehabilitation of major defects within three years of identification.
3. Utilize inspections to catalog illegal connections in high risk areas for disconnection in Private Sector Program (PSP).
4. Develop and implement a Private Sector Program (PSP).
5. Develop and submit annual reports under the Short Term Requirements and Long Term Operation and Maintenance Program (LTOMP)

Project Kick off meeting was held on August 8, 2018 with planning of the immediate task of smoke testing of all sanitary sewer in high risk areas. **Smoke testing started on September 17 in Parcel B (Sub-Basin 6).**

**By the end of October all High Risk Areas (12 sub-basins with a total of 133,133 feet of sewer mains) have been completed per MWRD standards. The final report is currently being reviewed by staff.**

##### Phase II Sanitary Sewer Repair at Manchester & Higgins

On June 4, 2018 the Village Board approved a contract with Insituform Technologies for Phase II Sanitary Sewer Repair at Higgins, which is the rehabilitation of the rest of damaged sanitary sewer mains along Higgins Road (starting at west of Manchester and proceeding to Oakmont Intersection) and Oakmont Road, approximately 4,600 feet of 20" and 14" pipe.



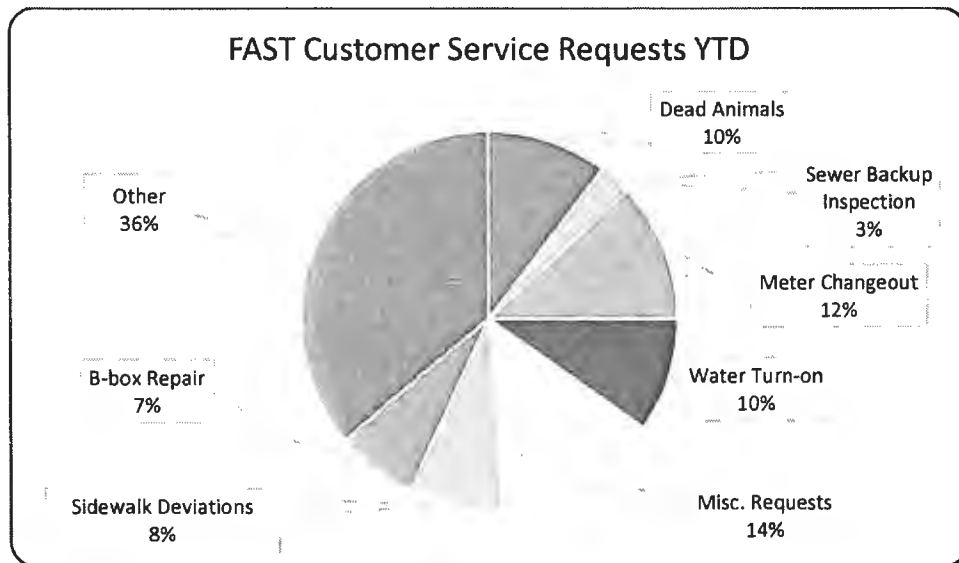
Pre-Construction meeting was held on July 12, 2018. Pre-lining pipe cleaning and inspection of all 4,600 feet were completed in August. Lining through CIPP (Cured-in-Place Pipe) started and completed in September. A total of 4,432' of 20" and a total of 175' of 14" sanitary sewer were rehabilitated by lining through CIPP. Staff has reviewed and accepted the inspection footage and the project is to be closed pending the final invoice.

**Customer Services**

**Fast Action Service Team (FAST):**

1. Repaired CaCl piping at de-icing liquid fill station;
2. Completed inventory of salt currently in dome.

Fast Action Service Team (FAST)												
Customer Service Requests												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
117	128	144	166	218	162	158	177	201	181			1652



**Customer Service Team:**

Customer Service Team												
Water Billing - Customer Service Appointments												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
64	45	72	49	47	44	65	56	48	56			546
Finance-generated Water Meter Readings												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
496	227	198	260	268	268	263	314	277	223			2794
Delinquent Water Accounts												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110	124	93	113	97	74	109	111	112	116			1059

New Construction Inspections												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
6	5	8	9	12	5	10	10	12	6			83
Customer Service Requests - Gov Q&A/Meter Repairs												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
51	20	21	22	21	15	42	35	20	34			281
Siding Permit Inspections												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
4	6	0	0	0	4	2	0	0	0			16
B-box Repairs												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
0	0	0	0	4	2	1	1	0	0			8

**Utility Locates Team:**

1. Made preparations for MCI North Hoffman fiber installation along Algonquin Road.

Utility Locates Team												
JULIE Locates												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
257	116	681	828	738	809	674	842	728	805			6478
Emergency JULIE Locates												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
23	7	9	26	32	9	31	23	42	46			248
Utility Joint Meets												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
6	3	2	8	6	6	9	8	7	6			61

**Facilities**

1. Completed repairs to brick wall at Fire Station 23;
2. Winterized all equipment and relevant systems;
3. Completed replacement of boilers at Fleet Services facility;
4. Assisted IS Department with mounted wireless access points at several Village facilities;
5. Coordinated project at Sears Centre Arena to level sections of floor in the concourse area.

Facilities												
Preventative Maintenance Program - staff hours												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
97	94	110	109	108	88	87	93	108	135			1030

**Fleet Services**

1. Accepted delivery of new PW units #33 and #97 and began preparing for service;
2. Continued snow and ice preparations on plow vehicles;
3. Began new vehicle preparation on new FD engine #24.

Fleet Services												
Preventative Maintenance Program - Number of Repairs												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
27	31	18	23	18	26	26	27	24	31			251
Vehicles Sent for Warranty Repair												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
4	3	24	3	4	4	3	4	2	5			56

## Forestry

1. Completed fall brush pick-up program;
2. Began fall contractor tree planting program;
3. Prepared Greve Cemetery for re-dedication ceremony;
4. Assisted with the Community Pride recognition event;
5. Removed tree at Sunderlage House;
6. Participate in IPWMAN callout in Lake in the Hills.

Forestry												
Customer Service Requests												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
19	10	27	44	72	71	55	80	64	38			480

## Maintenance & Construction

### Storm Sewer Team:

1. Adjusted manhole frames to grade at 1890 Shorewood Drive, 1896 Driftwood Court, and 1898 Driftwood Court;
2. Provided contractor oversight for storm sewer work on Oakmont Lane;
3. Performed mandatory IEPA monthly outflow checks.

Storm Sewer Team												
Feet of Storm Sewer Flushed												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
4,519	0	1,371	0	405	0	0	1,061	273	0			7,629
Catch Basin Rebuilds												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
0	0	0	7	5	4	6	5	0	0			27

### Construction/Maintenance Team:

- 1) Repaired water main leaks at 2501 Barrington Road, 3711 Huntington Boulevard, and two leaks on Bode Road;
- 2) Continued repairs to various fire hydrants with minor issues identified during the annual hydrant flushing program.

Construction/Maintenance Team												
B-box Repair/Replacement												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
0	0	1	7	4	7	9	8	7	3			46

Hydrant Replacement												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1	0	0	1	0	2	2	4	2	1			13
Valve Repair/Replacement												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
0	1	0	0	0	1	0	2	0	0			4
Water Main/Service Line Leak Repairs												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2	2	1	2	2	1	1	1	2	4			18

## **Traffic Operations**

### **Pavement Maintenance Team:**

1. Coordinated monthly tailgate, JSA, unit 50 yard man, snow and ice, and semi-dump low boy training;
2. Assisted Road Reconstruction Program with driveway rehabilitation;
3. Continued in-house pavement marking program.

Pavement Maintenance Team												
Tons of Hot Asphalt Installed												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
0.0	0.0	0.0	3.0	61.0	47.5	24.0	62.5	33.5	27.0			258.5
Tons of Cold Asphalt Installed												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
8.5	7.0	7.5	6.0	1.5	2.0	2.0	2.5	1.5	2.0			40.5

### **Sign Team:**

1. Performed type-I sign reposting on Bardwick Court, Garnet Circle, Opal Drive, Westbridge Court, Dirftwood Court, Larchmont Road, Lafayette Lane, Dresden Drive, and Alder Court;
2. Installed Open House signs for Fire Department at Fire Stations 21, 23, and 24.

Sign Team												
Repaired/Replaced Signs												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
11	13	9	10	11	6	4	6	5	3			78
Signs Fabricated and Installed												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
24	36	20	35	147	41	129	215	118	132			897

### **Street Light Team:**

1. Notified ComEd of 2 street lights out under their jurisdiction;
2. Installed flag pole light at Village Green;
3. Installed street light pole at Tower #5;
4. Oversaw Village-wide street sweeping program.

Street Light Team												
Customer Service Requests												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
7	9	5	3	11	9	6	5	6	8			69
Street Lights Repaired												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
51	23	10	45	18	67	23	44	21	61			363

## Water Operations

### Operations Team:

1. Completed tuck pointing project at Abbey Wood pumping station;
2. Completed driveway sealing at water sites;
3. Installed new cathodic protection system at Tower #6;
4. Surveyed cathodic protection at all water tanks and lift stations;
5. Completed disinfection treatment at Well #9;
6. Completed smoke testing in MWRD designated high-risk areas.

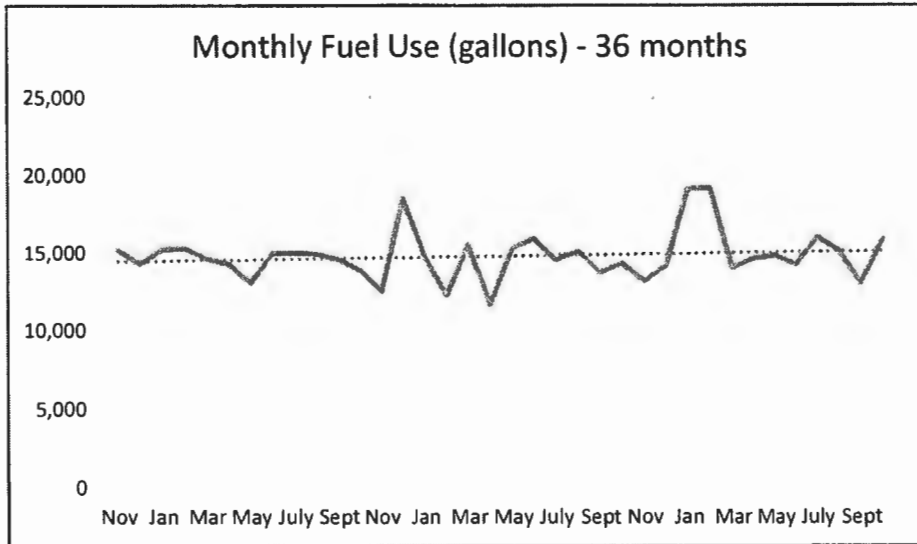
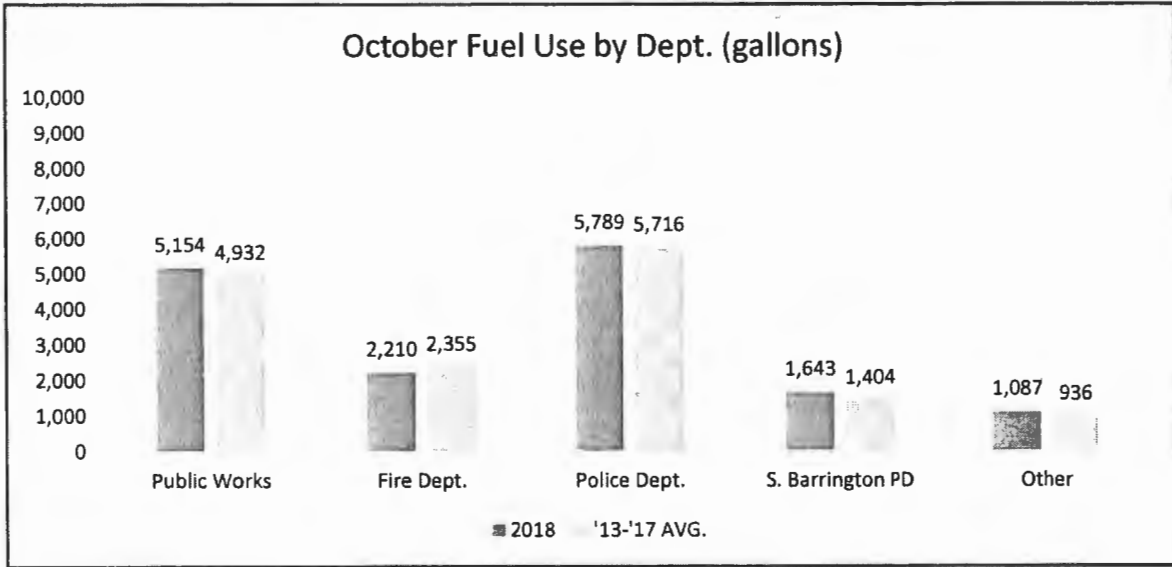
Operations Team												
Resident Water Quality Tests												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1	1	0	1	3	4	2	0	0	0			12

### Sanitary Sewer Flow Management Team:

1. Completed quarterly trouble spot list;
2. Identified buried manholes for Road Reconstruction Program;
3. Monitored and assisted with smoke testing and manhole inspections.

Sanitary Sewer Flow Management Team												
Sewer Lines Flushed (feet)												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
0	478	5,375	6,688	7,801	27,576	24,930	33,334	7,892	30,096			144,170
Sanitary Main Inspections (feet)												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
3,019	974	3,382	7,792	0	1,797	330	367	464	337			18,462

## Fuel Use Report





9010 Haligus Road  
Lake in the Hills, IL 60156

(847) 960-7500  
Fax: (847) 960-7501  
[www.lith.org](http://www.lith.org)

October 2, 2018

Mr. Joseph Nebel  
Director of Public Works  
Village of Hoffman Estates  
2305 Pembroke Ave.  
Hoffman Estates, IL 60169

Dear Joseph,

On behalf of the Village of Lake in the Hills, I want to extend to you and your community our gratitude for your generous storm cleanup response. On September 25, our community experienced a severe straight line wind event that resulted in widespread damage due to downed trees and tree debris. Over 3,000 homes in Lake in the Hills suffered a power outage. Managing the cleanup effort on our own would have taken months.

Although Lake in the Hills has taken part in mutual aid efforts through the Illinois Public Works Mutual Aid Network (IPWMAN) as a responder agency in the past, this is the first time we have needed to receive aid. The Village of Hoffman Estates was one of the agencies to respond to our call for need. I cannot tell you how grateful we are for your assistance. Instead of our crews going it alone to perform months of cleanup work, your agency and others assisted us to make short work of the removal effort, helping to remove all downed trees and tree debris within a week and a half. The silver lining in this unfortunate event is having a newfound appreciation of the value of IPWMAN, and a profound gratitude in knowing we have municipal neighbors like the Village of Hoffman Estates who are willing to help out when called upon. Please know that Lake in the Hills will be proud to return the favor if ever your need arises. Thank you again for your assistance.

Sincerely,

A handwritten signature in black ink that reads "Dan Kaup". The signature is written in a cursive style.

Dan Kaup  
Public Works Director

**ENGINEERING REPORT OF THE  
TRANSPORTATION AND ENGINEERING DIVISION  
DEPARTMENT OF DEVELOPMENT SERVICES  
NOVEMBER MONTHLY REPORT**

Attached is the Monthly Engineering Report of the Transportation and Engineering Division in the Department of Development Services for the period ending November 23, 2018.



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Alan Wenderski, P.E.  
Village Engineer



**MISCELLANEOUS**

Summary of miscellaneous items:

- 79 permit inspections
- 2 residential drainage investigations
- Processed 1 FOIA requests
- 1 Floodplain inquiry
- Reviewed RFQ's for Invest in Cook Beverly Road Phase I Engineering Services
- Engineering plan review for:
  - 2595 W Golf Road
  - 2352 W Higgins Road
- Reviewed permits for:
  - 6 – Drainage
  - 3 – Detached Garage
  - 1 – Single-Family Residential
- Plan/permit review related to residential development:
  - 6 – Permit Plats
  - 8 – Top of Foundations
  - 4 – Final Grading
  - 4 – Certificate of Occupancies

**PROJECT STATUS**

<b>VILLAGE PROJECTS</b>	
<b>PROJECT NAME</b>	<b>DESCRIPTION</b>
<b>2018 Drainage Improvements Project</b>	All locations complete. Punch list inspection ongoing. Village Project Manager: Oscar Gomez
<b>2018 Street Revitalization Project</b>	Project and punch list complete. Landscape restoration to be inspected in spring 2019. Village Project Manager: Marty Salerno
<b>2018 Surface Patching Project</b>	Work completed. Minor punch list work remains. Village Project Manager: Greg Burkey
<b>Oakmont Road Storm Sewer Replacement</b>	Storm sewer installation work completed. Concrete restoration and pavement patching work scheduled to begin week of November 26 <sup>th</sup> . Village Project Manager: Andy LoBosco / Oscar Gomez
<b>Prairie Stone Stormwater Management Plan</b>	Contract with V-3 to revise/update the 2004 Prairie Stone Stormwater Management Plan. Survey work scheduled to begin in December. Village Project Manager: Alan Wenderski

<b>VILLAGE PROJECTS</b>	
<b>PROJECT NAME</b>	<b>DESCRIPTION</b>
<b>Stonegate Pond Basin</b>	Design work ongoing. Contract awarded to Copenhaver on November 5 <sup>th</sup> . Preconstruction meeting held on November 8 <sup>th</sup> . Work scheduled to begin in early December with an approximate duration of 2 months. W-T Group serving as construction engineer.  Village Project Manager: Alan Wenderski

<b>COMMERCIAL PROJECTS</b>	
<b>PROJECT NAME</b>	<b>DESCRIPTION</b>
<b>Adesa Auto Auction</b> 5407 Trillium Boulevard	Revised as-built drawings reviewed and approved. Final inspection to be scheduled (weather dependent). Village Project Manager: Terry White
<b>Aldi</b> 375 West Higgins Road	Village board approval for building expansion received on August 6 <sup>th</sup> . Awaiting receipt of engineering plan review and inspection fee and project guarantee. Village Project Manager: Alan Wenderski
<b>Bystronic/Eagle Way Extension</b> 2200 Central Road	Mass grading underway. Preconstruction meeting for site work held on October 31 <sup>st</sup> . Underground construction schedule to begin by week of November 26 <sup>th</sup> . Village Project Manager: Terry White
<b>Culvers</b> Prairie Stone 4665 Hoffman Boulevard	Awaiting as-built drawing revisions. Village Project Manager: Terry White
<b>Enclave Apartments Clubhouse</b> 750 Salem Drive	Work complete. Awaiting final inspection with MWRD. Village Project Manager: Terry White
<b>Hoffman Plaza</b> Higgins and Roselle	As-built plans reviewed for Phase 1. Plan review comments sent for 2 East Higgins (Phase 2). Village Project Manager: Alan Wenderski/ Terry White
<b>Holiday Inn Express</b> 5235 Prairie Stone Parkway	Underground utility installation complete. Building work ongoing. Village Project Manager: Terry White
<b>Petro Auto</b> 1300 West Higgins Road	Site work ongoing. Village Project Manager: Terry White
<b>Shell – Ricky Rocket’s</b> 2590 West Golf Road	Site utility work complete. Building work ongoing. Village Project Manager: Terry White
<b>Silesia</b> Prairie Stone 5250 Prairie Stone Parkway	Site work complete. Final inspection with MWRD completed. Awaiting as-built drawings. Village Project Manager: Terry White

<b>RESIDENTIAL PROJECTS</b>	
<b>PROJECT NAME</b>	<b>DESCRIPTION</b>
<b>Airdrie Estates</b> NE Corner of McDonough Road and Rohrssen Road	Staff has reviewed and approved permit plat submittal for Lot 2.  Village Project Manager: Terry White / Oscar Gomez
<b>Amber Meadows</b> NE Corner of Essex Drive and Beacon Pointe Drive	Multiple lots under construction. Exterior work is limited due to start of winter conditions. All streets completed to binder level.  Village Project Manager: Terry White / Oscar Gomez
<b>Bergman Pointe</b> NW Corner of Ela Road and Algonquin Road	Home building ongoing. Exterior work is limited due to start of winter conditions. Ela Road path and adjacent grading work completed. Signal modifications at Ela/Algonquin substantially complete.  Village Project Manager: Terry White
<b>Devonshire Woods</b> SW Corner of Shoe Factory Road and Essex Drive	Home building ongoing. Exterior work is limited due to start of winter conditions. Subdivision nearing completion. It is expected to begin final inspections in spring 2019.  Village Project Manager: Terry White / Oscar Gomez

## Marquelle Cnota

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**From:** PublicWorks  
**Sent:** Tuesday, November 20, 2018 2:32 PM  
**To:** RoadConstruction  
**Subject:** FW: Thank you!

Happy resident at 1150 Dresden!

Public Works Department  
Village of Hoffman Estates  
2305 Pembroke Ave. , Hoffman Estates, IL 60169  
Phone: (847) 490-6800 | Email: PublicWorks@HoffmanEstates.org

-----Original Message-----

From: Janet [mailto:jazzjan@aol.com]  
Sent: Monday, November 19, 2018 6:43 PM  
To: PublicWorks <PublicWorks@hoffmanestates.org>  
Subject: Thank you!

Our street, Dresden, and sidewalks were improved in an efficient and timely manner. Thank you!

Sincerely,  
Janet Simmons

Sent from my iPad