

**AGENDA**  
**PUBLIC WORKS & UTILITIES COMMITTEE**  
**Village of Hoffman Estates**  
**August 19, 2019**

***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 – July 22, 2019**

**NEW BUSINESS**

- 1. Request authorization to award contract for the abandonment of Well 9 to Water Well Solutions (low bid), Elburn, IL in an amount not to exceed \$98,309 and rejection of all bids for demolition of the above ground facility at Well 9 site.
- 2. Request authorization to award contract for engineering services for relocation/replacement of 16" water transmission mains along Huntington Roads between Mundhank Road and Lakewood Blvd, to HRGreen, McHenry, IL (low qualified proposal), in an amount not to exceed \$62,904.

**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.*

**PUBLIC WORKS & UTILITIES COMMITTEE  
MEETING MINUTES**

July 22, 2019

**I. Roll call**

**Members in Attendance:**

**Trustee Anna Newell, Chairperson  
Trustee Michael Gaeta, Vice Chairperson  
Trustee Karen Mills  
Trustee Gary Pilafas  
Trustee Gary Stanton  
Trustee Karen Arnet  
Mayor William McLeod**

**Management Team Members  
in Attendance:**

**Dan O'Malley, Deputy Village Manager  
Art Janura, Corporation Counsel  
Alan Wenderski, Village Engineer  
Mark Koplun, Asst. Village Mgr.-Dev. Services  
Kathryn Cawley, Assistant Police Chief  
Pat Fortunato, Fire Chief  
Bev Romanoff, Village Clerk  
Rachel Musiala, Finance Director  
Monica Saavedra, Director of HHS  
Fred Besenhoffer, Director of IS  
Joe Nebel, Director of Public Works  
Patti Cross, Asst. Corporation Counsel  
Doug LaSota, Assoc. Corporation Counsel  
Suzanne Ostrovsky, Asst. to Village Mgr.**

The Public Works & Utilities Committee meeting was called to order at 7:08 p.m.

**II. Approval of Minutes**

Motion by Trustee Gaeta, seconded by Trustee Pilafas, to approve the minutes of the Public Works & Utilities Committee meeting of June 24, 2019. Voice vote taken. All ayes. Motion carried.

**NEW BUSINESS**

- 1. Request approval to enter into a Small Wireless Facilities Master Pole Attachment Agreement with Chicago SMSA Limited Partnership d/b/a Verizon Wireless.**

An item summary sheet from Doug LaSota, Aaron Howe and Peter Gugliotta was presented to Committee.

Doug LaSota addressed the Committee and reported that Verizon Wireless wants to add 5 small wireless facilities within the Village. Two will be on street lights, two will be on ComEd-owned poles and one will be a new, stand-alone pole.

Joseph Farwell, Verizon Manager, was present and answered questions of the Committee. At this time, Verizon will apply for permits at two locations, but did not know the exact locations at this time. He reported that certain areas need more capacity due to demand for voice and data.

Motion by Trustee Gaeta, seconded by Trustee Arnet, to enter into a Small Wireless Facilities Master Pole Attachment Agreement with Chicago SMSA Limited Partnership d/b/a Verizon Wireless. Voice vote taken. All ayes. Motion carried.

- 2. Request approval to reject the sole bid received for the abandonment of Well #9 and demolition of the above ground facility.**

An item summary sheet from Joe Nebel and Haileng Ziao was presented to Committee.

Motion by Trustee Gaeta, seconded by Trustee Pilafas, to reject the sole bid received for the abandonment of Well #9 and demolition of the above ground facility. Voice vote taken. All ayes. Motion carried.

- 3. Request authorization of Change Order #1 to the contract with BP&T Co., Mount Prospect, IL, in an amount not to exceed \$8,606 for additional work required on the Aster Lane Garage Storage Building Siding Replacement project.**

An item summary sheet from Joe Nebel and Paul Petrenko was presented to Committee.

Motion by Trustee Gaeta, seconded by Trustee Arnet, to authorize Change Order #1 to the contract with PB&T Co., Mount Prospect, IL, in an amount not to exceed \$8,606 for additional work required on the Aster Lane garage storage building siding replacement project. Voice vote taken. All ayes. Motion carried.

- 4. Request approval of Change Order #1 to the contract with A Lamp Concrete Contractors, Inc., Schaumburg, IL, for the Oakmont Road storm sewer replacement project in the amount of \$11,153 for a total amount not to exceed \$565,540.**

An item summary sheet from Al Wenderski was presented to Committee.

Motion by Trustee Gaeta, seconded by Trustee Stanton, to approve Change Order #1 to the contract with A Lamp Concrete Contractors, Inc., Schaumburg, IL, for the Oakmont Road storm sewer replacement project in the amount of \$11,153 for a total amount not to exceed \$565,540. Voice vote taken. All ayes. Motion carried.

- 5. Request approval of:**
  - a) Change Order #1 to the contract with Prime Construction, Inc., Hampshire, IL for the 2018 drainage improvements project in the amount of \$7,757; and**
  - b) Change Order #2 to the contract with Prime Construction, Inc., Hampshire, IL, for the 2018 drainage improvements project in the amount of \$4,700.**

An item summary sheet from Al Wenderski was presented to Committee.

Motion by Trustee Gaeta, seconded by Trustee Pilafas, to approve Change Order #1 to the contract with Prime Construction, Inc., Hampshire, IL, for the 2018 drainage improvements project in the amount of \$7,757; and approve change Order #2 to the contract with Prime Construction, Inc., Hampshire, IL, for the 2018 drainage improvements project in the amount of \$4,700. Voice vote taken. All ayes. Motion carried.

6. **Request authorization to extend 2017 contract for 2019-2020 janitorial maintenance service for: Village Hall, Police Station, Susan Kenley-Rupnow Public Works Center and the Fleet Services facility to Eco Clean Maintenance Inc., Elmhurst, IL, for a total contract monthly fee of \$4,941, total contract amount not to exceed \$59,292.**

An item summary sheet from Joe Nebel and Paul Petrenko was presented to Committee.

Motion by Trustee Gaeta, seconded by Trustee Arnet, to extend 2017 contract for 2019-2020 janitorial maintenance services for Village Hall, Police Station, Susan Kenley-Rupnow Public Works Center and the Fleet Services facility to Eco Clean Maintenance Inc., Elmhurst, IL, for a total contract monthly fee of \$4,941, total contract amount not to exceed \$59,292. Voice vote taken. All ayes. Motion carried.

7. **Request authorization to extend 2017 contract for 2019 contracted branch/brush pick-up program to Trees "R" Us, Inc., Wauconda, IL, in an amount not to exceed \$30,000.**

An item summary sheet from Joe Nebel and Nick Lackowski was presented to Committee.

Motion by Trustee Gaeta, seconded by Trustee Pilafas, to extend 2017 contract for 2019 contracted branch/brush pick-up program to Trees "R" Us, Inc., Wauconda, IL, in an amount not to exceed \$30,000. Voice vote taken. All ayes. Motion carried.

8. **Discussion regarding color selection and costs related to the Stonington Water Tower (T-2) Painting Project.**

An item summary sheet from Joe Nebel and Haileng Xiao was presented to Committee.

Joe Nebel addressed the Committee and stated that this item was discussed at a previous Public Works Committee meeting in April. At that time, staff was not aware of the fact that the new color comes only in epoxy coating. This epoxy coating would not work on the exterior of T-2's existing aluminum base coat. The paint of the new color would require revisions to include removal of the existing aluminum base coat by blasting and would increase the cost by \$100,000. The Committee discussed options.

Motion by Trustee Stanton, seconded by Trustee Mills, to delay the blasting of the existing aluminum base coat and just paint it with the metallic paint, using Option #2 that Mr. Nebel showed the Committee. Voice 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 Pilafas, to adjourn the meeting at 7:34 p.m. Voice vote taken. All ayes. Motion carried.

Minutes submitted by:

\_\_\_\_\_  
Debbie Schoop, Executive Assistant

\_\_\_\_\_  
Date

**COMMITTEE AGENDA ITEM  
VILLAGE OF HOFFMAN ESTATES**

**SUBJECT:** Request authorization to award contract for the abandonment of Well 9 to Water Well Solutions (low bid), Elburn, IL in an amount not to exceed \$98,309 and rejection of all bids for demolition of the above ground facility at Well 9 site.

**MEETING DATE:** August 19, 2019

**COMMITTEE:** Public Works and Utilities

**FROM:** Joseph Nebel, Director of Public Works  
Haileng Xiao, Superintendent of Water and Sewer

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**PURPOSE:** To seek authorization to award contract for Well 9 abandonment and rejection of bids for demolition of the above ground facility at the site.

**BACKGROUND:** Well 9, located at 720 Charleston Lane, was constructed in 1971 by Layne Western Company for the Village's North Zone pressure district. The total depth of the well is 1,392 feet with 20" cemented casing to 501'. In 1985 when the Village started to receive its water supply from Lake Michigan, Well 9 was kept as an emergency backup water supply. In 2009, the well was taken out of service because of drastically decreased output (less than 10 gallon per minute). In 2011, the well pump and column pipe were pulled for repair and rehabilitation and output capacity was restored.

In recent years a new problem occurred: monthly bacteriological samples started to periodically fail during Illinois Environmental Protection Agency (IEPA) standards testing. As time passed, the frequency of those failures increased. As a result, the well was taken out of service as an emergency backup well. Staff, with assistance from consultant engineer and contractors, tried various methods to correct the problem without pulling the pump and pipe. None of the lower cost methods were successful. After many failed efforts, staff concluded that the problem could not be resolved without a major capital expenditure and without any guarantees they would be successful.

Upon reviewing the report submitted by staff on the condition of Well 9, the IEPA gave notice to abandon the well and switch to an alternative backup water supply or violations would be considered.

**BACKGROUND (continued)**

The other two emergency backup wells for the North Zone pressure District (Wells 16 and 18) remain in good condition. In the meantime, staff has been exploring the possibility of water system interconnect with the Village of Palatine through a joint feasibility study with their staff. Initial report by a consulting engineer indicates a system interconnect is not only feasible but also highly beneficial to both Villages. Staff from both Villages are very interested in the construction of a system interconnect. Once the water system interconnect with the Village of Palatine is established, it has the potential to replace all of the wells as an emergency backup water supply for the North Zone pressure district.

Per IEPA's instruction, bid plans and specification documents were prepared to ensure that the well abandonment is in full compliance with the requirements of State Code Title 77: Public Health, Chapter I: Department of Public Health, Subchapter: Water and Sewage, Part 920 Water well Construction Code, Section 920.120 Abandoned Wells. In addition to the well, the station building and its contents along with site features are also to be removed or abandoned. The goal is to make the site suitable for some type of future use or sale.

The project was bid out in late June with a sole bid from Municipal Well & Pump (\$198,185), which exceeds the engineer's estimate of \$163,240.00 by over 20%. As recommended by the engineer, Public Works Committee authorized staff to reject the sole bid at meeting on July 22, 2019.

**DISCUSSION:**

After rejecting the sole bid, staff immediately went out for a rebid to encourage more bidders to participate by adding 20 more days to prepare bids than the first bid opening date allowed. By the new bid opening date of August 8, 2019, the Village received two bids as summarized below:

Item	Unit	Total Units	Engineering Estimates	Municipal Well & Pump	Water Well Solution
1. Mobilization	L SUM	1	\$22,010	\$45,640	\$38,500
2. Well Equipment Removal	L SUM	1	\$33,010	\$36,790	\$30,100
3. Well Abandonment Fill - Grout/Cement	CU YD	45	\$19,800	\$40,050	\$30,600
4. Well Abandonment Fill - Pea Gravel/Limestone	CU YD	60	\$18,660	\$21,480	\$20,820
Sub Total for Well Abandonment			\$93,480	\$143,960	\$120,020
5. Site Demolition & Restoration	L SUM	1	\$16,515	\$43,570	\$83,500
6. Building Demolition	L SUM	1	\$53,245	\$24,750	\$41,250
Sub Total for Above Ground Facility Demolition			\$69,760	\$68,320	\$124,750
<b>Total</b>			<b>\$163,240</b>	<b>\$212,280</b>	<b>\$244,770</b>

**DISCUSSION (continued)**

The proposed costs of all bids received are over 30% above the engineering estimate and even higher than the sole bid received in July 2019.

The critical portion of IEPA's requirement is the abandonment of the well to be completed this year. The demolition of the above ground facility (pump station building) and site utilities can be accomplished at a later time for lower costs. In order to be compliant with the IEPA's requirement, the engineer recommended partial award for Items 1 through 4 for only the well abandonment and rejection of all bids for Items 5 & 6 for demolition of the above ground facility. The lowest responsible bid for well abandonment work of Items 1 through 4 is provided by Water Well Solutions and the bid is also lower in cost than the previous sole bid (\$133,885) received in July. Portion of the Item 1 Mobilization is exclusively for Ground Facility Demolition at a cost of \$21,711 as stated by their clarification letter and is to be deducted from the total cost of Items 1 through 4. Water Well Solutions has completed a project satisfactorily for the Village earlier this year. Both consultant engineer and staff have confidence that the firm will complete well abandonment work for the Village in a satisfactory manner. Staff concurs with the recommendation.

**FINANCIAL IMPACT:**

The total cost for well abandonment only is \$98,309 and will be sufficiently covered within the FY 2019 bond fund.

**RECOMMENDATION:**

Request authorization to award contract for the abandonment of Well 9 to Water Well Solutions (low bid), Elburn, IL in an amount not to exceed \$98,309 and rejection of all bids for demolition of the above ground facility at Well 9 site.





August 14, 2019

Haileng Xiao  
Superintendent of Water & Sewer  
Village of Hoffman Estates  
Department of Public Works  
2305 Pembroke Avenue  
Hoffman Estates, IL 60169

Re: Well #9 Abandonment  
Letter of Recommendation – Rebid Award

Dear Mr. Xiao:

This letter is regarding the Bid Opening that was held for the subject project at the Village of Hoffman Estates, Village Hall on Thursday, August 8, 2019 at 10:30 am. There were two (2) bids received, opened and publicly read. The bids received were from Municipal Well and Pump for \$212,280.00 and Water Well Solutions Illinois Division, LLC for \$244,770.00. The engineer's estimate is \$163,240.00. Copies of the opened bids were provided to Burns & McDonnell for review for completeness and accuracy. The bid tabulation is attached.

This bid was a rebid of bids received on July 10, 2019. The current bid results received were higher than the engineers estimate. Comparing the two bids received, the apparent increase in prices compared to the engineer's estimate varied between the two bidders. The bid from Municipal Well was similar, but higher, to their previous bid of July 10, 2019. The bid from Water Well Solutions was higher for the demolition costs caused by additional risk they perceived for the demolition.

Both bidders are qualified contractors to complete the well abandonment work. With both bidders being well contractors, the demolition work related to the building and site utilities is being subcontracted to demolishing contractors. Water Well Solutions has successfully completed water well related projects in the Chicago metropolitan area based on discussions with clients and contractors.

The critical portion of the project is the abandonment of the well. The pump station and site utilities can be abandoned/demolished on a separate schedule driven by the Village. In comparing the bid items relevant to well abandonment (bid items 1 through 4), the engineers estimate and bid prices are:

- Engineer's Estimate: \$93,480.00
- Water Well Solutions: \$120,020.00
- Midwest Well: \$143,960.00



Haileng Xiao  
Village of Hoffman Estates  
August 14, 2019  
Page 2

The difference between the engineer's estimate and the bids received for the well related bid items occurred in the mobilization costs and the grout/cement unit costs. The largest impact on the unit bid cost for grout/cement was the labor hours and cost for placing the material. The mobilization costs include mobilization of construction equipment and bonding costs which are higher than anticipated.

Reviewing Water Well Solutions bid items and what was included in each, costs specifically for building demolition was identified in the mobilization bid item. Excavation costs and overhead costs were identified as potential reductions. These reductions reduced the mobilization costs by \$21,711, reducing the bid item 1 to \$16,789.00. This reduction results in a total bid amount of \$98,309.00. A letter from Water Well Solutions Illinois Division, LLC (Suez) was received by the Village confirming the reduction in costs.

Our opinion is that the bids received is high. Our recommendations are:

1. Partial award for the well work in the amount of \$98,309.00 to Water Well Solutions.
2. Prepare a bid document that only includes the demolition of the building and equipment along with the site utilities.

This will allow the Village to meet the intent of the original well abandonment commitment with IEPA.

We appreciate the opportunity to serve the Village of Hoffman Estates on this Project. Should you have any questions or require additional information, please feel free to contact me at [cdunkelberg@burnsmcd.com](mailto:cdunkelberg@burnsmcd.com) or (630) 515-4633.

Sincerely,

A handwritten signature in black ink, appearing to read "Claus Dunkelberg".

Claus Dunkelberg, P.E.  
Project Manager

Attachment: Bid Tab Summary

Village of Hoffman Estates, Illinois

Well #9 Abandonment  
BASE BID TABULATION

Thursday, August 8, 2019

BASE BID: Well #9 Abandonment

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	ENGINEER'S ESTIMATE OF PROBABLE COST		Midwest Well Services, Inc. aka Municipal Well & Pump Waupun, WI		Water Well Solutions Illinois Divisio, LLC Elburn, IL	
				UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL
1	MOBILIZATION	LUMP SUM	1	\$22,010.00	\$22,010.00	\$45,640.00	\$45,640.00	\$38,500.00	\$38,500.00
2	WELL EQUIPMENT REMOVAL	LUMP SUM	1	\$33,010.00	\$33,010.00	\$36,790.00	\$36,790.00	\$30,100.00	\$30,100.00
3	WELL ABANDONMENT FILL - GROUT/CEMENT	CU. YD.	45	\$440.00	\$19,800.00	\$890.00	\$40,050.00	\$680.00	\$30,600.00
4	WELL ABANDONMENT FILL - PEA GRAVEL/LIMESTONE	CU. YD.	60	\$311.00	\$18,660.00	\$358.00	\$21,480.00	\$347.00	\$20,820.00
5	SITE DEMOLITION & RESTORATION	LUMP SUM	1	\$16,515.00	\$16,515.00	\$43,570.00	\$43,570.00	\$83,500.00	\$83,500.00
6	BUILDING DEMOLITION	LUMP SUM	1	\$53,245.00	\$53,245.00	\$24,750.00	\$24,750.00	\$41,250.00	\$41,250.00
<b>TOTAL BASE BID</b>					\$163,240.00		\$212,280.00		\$244,770.00



August 14, 2019

Village of Hoffman Estates  
2305 Pembroke Ave  
Hoffman Estates, IL 60169

Attn: Mr. Haileng Xiao & Mr. Claus Dunkelberg

**RE: Hoffman Estates Well 9 Abandonment Mobilization Itemization**

Dear Mr. Xiao & Mr. Dunkelberg,

Good afternoon Gentlemen-

Upon your request, the items below are the itemization of the bid items for demo (including cutting casing 12ft below grade) and well abandonment.

- Mobilization ◦ **DEMO Work** (including cutting casing 12ft below grade, and bonds for larger contract amount, etc): \$21,711
- Well abandonment mobilization: \$16,789

That being said, if the demolition scope of work were removed (items 5 & 6 of bid), and the cutting of the casing (percentage of item 1) was removed from the scope and the well is to be filled with the specified materials and quantities and left for another contractor to complete the other work, our total bid price would be (items: partial 1, 2, 3, 4) \$98,309

Please feel free to reach out with any questions. Thank you.

Sincerely,

Ahmad T. Hamdan, E.I.T.  
Project Manager  
SUEZ Advanced Solutions  
*Water Well Solutions Illinois Division, LLC*

**VILLAGE OF HOFFMAN ESTATES  
DEPARTMENT OF PUBLIC WORKS**

**PROPOSAL FORM**

**Well #9 Abandonment**

- Well equipment shall be removed from the pumphouse
- Well #9 shall be abandoned and sealed
- Pumphouse site including utilities and pavement shall be demolished, removed, or abandoned.
- Pumphouse building interior equipment shall be removed from the building.
- Pumphouse building shall be demolished and removed.

Completion Time after Notice to Proceed:

60 Calendar Days – Substantial Completion  
90 Calendar Days – Final Completion

ITEM NO.	ITEM	UNIT	TOTAL UNITS	UNIT COST	TOTAL COST
1	Mobilization	L SUM	1	\$ 45,640. <sup>00</sup>	\$ 45,640. <sup>00</sup>
2	Well Equipment Removal	L SUM	1	\$ 36,790. <sup>00</sup>	\$ 36,790. <sup>00</sup>
3	Well Abandonment Fill - Grout/Cement	CU YD	45	\$ 890. <sup>00</sup>	\$ 40,050. <sup>00</sup>
4	Well Abandonment Fill - Pea Gravel/Limestone	CU YD	60	\$ 358. <sup>00</sup>	\$ 21,480. <sup>00</sup>
5	Site Demolition & Restoration	L SUM	1	\$ 43,570. <sup>00</sup>	\$ 43,570. <sup>00</sup>
6	Building Demolition	L SUM	1	\$ 24,750. <sup>00</sup>	\$ 24,750. <sup>00</sup>

Total Cost: \$ 212,280.<sup>00</sup>

Company: Midwest Well Services, Inc. dba: Municipal Well & Pump

Bidder's Name (print): Donald W. Rens

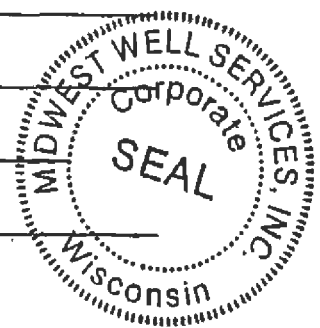
Title: President

Address: 1212 Storbeck Drive

Waupun, WI 53963

Telephone: 920-324-3400 Fax: 920-324-3431

Signature: *Donald W. Rens* Date: 8/5/19



No APPENDUM RECEIVED

**VILLAGE OF HOFFMAN ESTATES  
DEPARTMENT OF PUBLIC WORKS**

**PROPOSAL FORM**

**Well #9 Abandonment**

- Well equipment shall be removed from the pumphouse
- Well #9 shall be abandoned and sealed
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Completion Time after Notice to Proceed:

60 Calendar Days – Substantial Completion  
90 Calendar Days – Final Completion

ITEM NO.	ITEM	UNIT	TOTAL UNITS	UNIT COST	TOTAL COST
1	Mobilization	L SUM	1	\$ 38,500	\$ 38,500
2	Well Equipment Removal	L SUM	1	\$ 30,100	\$ 30,100
3	Well Abandonment Fill - Grout/Cement	CU YD	45	\$ 680	\$ 30,600
4	Well Abandonment Fill - Pea Gravel/Limestone	CU YD	60	\$ 347	\$ 20,820
5	Site Demolition & Restoration	L SUM	1	\$ 83,500	\$ 83,500
6	Building Demolition	L SUM	1	\$ 41,250	\$ 41,250

Total Cost: \$ 244,770


Company: Water Well Solutions Illinois Division LLC

Bidder's Name (print): Ahmad Hamdan

Title: Project Manager

Address: 825 E. North St.  
Elburn, IL 60119

Telephone: 630-365-9099 Fax: 630-365-9089

Signature:  Date: 8/7/19

**COMMITTEE AGENDA ITEM  
VILLAGE OF HOFFMAN ESTATES**

**SUBJECT:** Request authorization to award contract for engineering services for relocation/replacement of approximately 2,500' of 16" water main to HRGreen, McHenry, IL (low qualified proposal), in an amount not to exceed \$62,904.

**MEETING DATE:** August 19, 2019

**COMMITTEE:** Public Works and Utilities

**FROM:** Joseph Nebel, Director of Public Works  
Haileng Xiao, Superintendent of Water and Sewer

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**PURPOSE:** To seek authorization to award contract for the engineering services for 16" water transmission mains relocation and replacement.

**BACKGROUND:** The Village's north water pressure district is supplied by two separate 16" transmission mains along Ela Road and Huntington Road. The total length of the water mains (ductile iron pipes) is about two miles. Since 2001, when staff started to track leaks on the lines, there has been a total of 32 water main breaks on both lines. Engineering studies indicate corrosive soil has caused serious damage to the water main at sites with excessively hot soil, which explains frequent main breaks. Shut-down for repair or replacement of the water main on one line increases the risk of a break on the other line. In order not to trigger another break, staff is required to be very careful when performing repairs on the water mains. In addition to the leak repairs there has been a replacement of a 460' section of the Huntington main and installation of cathodic protection system on approximately 3,000 feet of water mains to try and reduce the amount of corrosion damage and extend the life of the water main.

Staff considers it necessary to relocate and replace the water main starting with a section that's approximately 2,500' and runs through a section of Huntington that doesn't drain. This drainage issue significantly extends the process of repairs as it can take 2-3 days just to drain the areas over the water main to begin the repair. Staff interviewed three engineering firms to seek options and proposals for the work. The interview and detailed discussions outlined the scope of services that the Village is seeking.

**DISCUSSION:**

By early August 2019 all three firms submitted proposals to prepare design, plan and bid documents and, as needed, construction management for the replacement/relocation of the water main. The focus is to minimize the number and duration of shutdowns of this critical north/south system connection through improved design, construction management and control, along with careful selection of pipe material such as Zinc-coated ductile iron pipe or other alternatives. The three proposals are summarized as follows:

<u>Company</u>	<u>Design &amp; Bid Plan</u>	<u>Constructions Management</u>	<u>Total</u>
HRGreen	\$51,064	\$11,840	\$62,904
Clark Dietz	\$53,590	\$36,172	\$89,762
Robinson	\$69,916	\$49,748	\$119,664

Proposals of all three firms satisfied Village requirements. HRGreen provided the lowest costs for both design and construction management. The most significant difference is among the proposed costs for construction management (inspection). After further inquiry with HRGreen, it was explained that the low cost is for critical phase management and inspection only (kick-off meeting, shut-downs/connections, pressure testing, etc.). Staff considers this acceptable and a mean to reduce the cost of the project. Village staff is capable of performing portions of the installation inspections as occurred with water replacement projects at Ela Road and Bode Road (a total of 2,500 feet of water main were replaced without assistance from consultant engineers).

Although HRGreen has not worked on any Village projects in recent history, the interview demonstrated the firm was well prepared and the proposal fully covered desired scope of services. HRGreen also has a good history with this type of work for other municipalities and their work was verified with calls to references (Village of Lake in the Hills and Village of Elk Grove).

**FINANCIAL IMPACT:**

The total cost for the proposed engineering services is \$62,904 and will be sufficiently covered within the FY 2019 bond fund.

**RECOMMENDATION:**

Request authorization to award contract for engineering services for relocation/replacement of approximately 2,500' of 16" water main to HRGreen, McHenry, IL (low qualified proposal), in an amount not to exceed \$62,904.

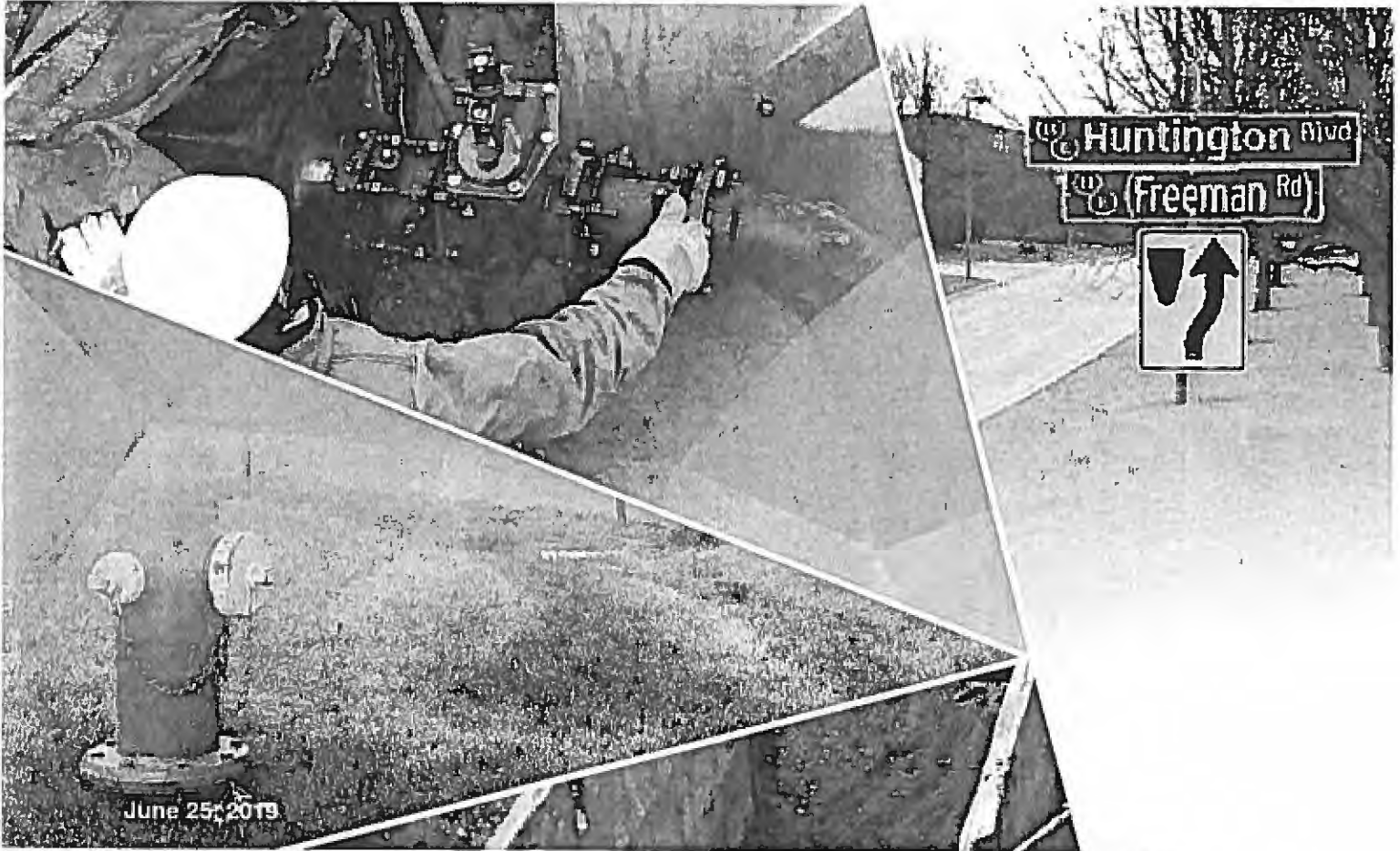
*Note: Proposal documents are in the white Public Works & Utilities Committee binder in the Trustee's Ante Room.*



SUBMITTED BY



HRGreen



## PROFESSIONAL ENGINEERING SERVICES

Huntington Blvd. Water Main Replacement



Proposal For  
VILLAGE OF HOFFMAN ESTATES

**Chad Pieper, PE**

420 N Front Street, Suite 110  
McHenry, Illinois 60051

Direct 815.714.1111 | [cpieper@hrgreen.com](mailto:cpieper@hrgreen.com)

**Sean Murphy, PE**

1100 Huntington Street, Suite 110  
Hoffman Estates, Illinois 60130

Direct 815.714.1111 | [smurphy@hrgreen.com](mailto:smurphy@hrgreen.com)



HRGreen

1470 North Fifth Street, Suite 100, Chicago, IL 60610  
Main 815.305.1778 Fax 815.305.1788

June 25, 2019

Mr. Haileng Xiao  
Superintendent of Sewer and Water  
Village of Hoffman Estates  
Department of Public Works  
2305 Pembroke Avenue  
Hoffman Estates, Illinois 60069

**Re: Engineering Services Proposal – Huntington Blvd. Water Main Replacement**

Dear Mr. Xiao:

HR Green, Inc. (HR Green) is pleased to submit a proposal for the Huntington Blvd. Water Main Replacement Engineering Services opportunity. This project directly aligns with our years of municipal experience and civil engineering services. Our firm has a long history of successful water main replacement projects of varying degree of difficulty, including most recently:

**2017 Water Main Improvements, Lake in the Hills, IL:** Year 16 of a multi-year program in which aging water mains were replaced throughout the older residential section of town. Each year, approximately \$1 million dollars was invested to replace aging water main ranging in size from 6" diameter to 12" diameter and to complete restoration of the affected areas. These projects involved replacement of valves, fire hydrants, services and main, and restoration of yards, roadways, curb and gutter, storm sewers and culverts, sidewalks, driveways, and various landscaping items. These projects utilized open cut and horizontal directional drilling construction methods.

**2015 Water Main Project, Marengo, IL:** Replacement of approximately 20,900 linear feet of 12" water main. The project included the installation of new water mains, valves, fire hydrant services and railroad crossing. Restoration of this project included yards, roadways, curb and gutter, sidewalks, driveways, culverts and various landscape items.

**Route 71 Water Main Relocation, Oswego, IL:** Design and installation of approximately 10,000 feet of 12" and smaller diameter water main via trenchless and open cut methods with new hydrants and valve vaults.

HR Green would be honored to further our relationship and address this imperative need efficiently and in accordance with your budget limitations. If you have questions about our proposal or would like additional information about HR Green, please contact Chad Pieper at 815.759.8346 or Sean Murphy at 815.759.8378.

Thank you for the opportunity to present this proposal. We look forward to continuing our work with the Village.

Sincerely,

HR GREEN, INC

Chad Pieper, PE  
Municipal Service Manager

Sean Murphy, PE  
Project Engineer

# Project Understanding

The Village of Hoffman Estates is looking to replace 2,500 to 3,000 feet of aging water main infrastructure, with a history of corrosion related breaks and repairs, along Huntington Blvd. The project consists of replacing existing 16" water transmission main located on the east side of the street between Mundhank Rd. and Lakewood Blvd.

- The Village considers this project to be maintenance activity. A replacement water main will be installed in the same general alignment as the existing main. Consideration will be given to locations between, and including, the northbound travel lane of Huntington Blvd, and Forest Preserve property just east of the existing pipe.
- Deviations from the Village's ductile iron water main materials requirements will be explored with the Village's water system staff. A primary goal of this project is minimizing the number and duration of shut downs of this critical north/south system connection; installation methods and pipe material selection can have a significant impact with respect to attaining this goal.
- The existing main is on a separate pressure zone than the system pipe network south of Lakewood Blvd. and does not contain interconnects to the adjacent system. Adding an interconnect will be explored with this project.
- Additional information and/or coordination with the Forest Preserve may be necessary, as preliminary research indicates prescriptive right-of-way east of the Huntington Blvd. center line.

HR Green, Inc (COMPANY) will be providing Phase II design services with limited bidding assistance and construction services for this project, as indicated during discussions with the Village.

Permitting for this project may include obtaining an IEPA construction permit, depending on the ultimate design location of the replacement main. Based on the Village's desire to construct this project as a maintenance activity, permitting will not be included in the COMPANY's scope of work, although, hours/costs will be provided as a separate line item for Village consideration should the ultimate design indicate that IEPA permits will be required. The Village has provided information indicating that the local soil conditions are less than ideal, and therefore budget is included for geotechnical exploration to provide soil profile information and the necessary CCDD paperwork for soils along the proposed water main route. The CCDD procedure will consist of soil pH testing and completion of the LPC-663 form; HR Green will utilize a specialty sub-consultant firm to complete this work. A storm water permit application will be prepared following all of MWRD's requirements.

As discussed during the pre-proposal meeting, the critical nature and history of emergency repairs required on the subject section of main has made this project vital to the Village's ability to maintain water service to a portion of the Village and construction completion before the end of calendar year 2019 is desired.

## Proposed Scope of Services

HR Green (COMPANY) will prepare construction documents for the replacement of 2,500 to 3,000 feet of water main along Huntington Blvd. between Mundhank Rd. and Lakewood Blvd. These documents will include Final Engineering Plans, Project Specifications Manual (utilizing Village front end contract documents), and executed CCDD forms. Required stormwater permit applications will be made ready for Village signature and submitted and Final Engineer's Opinion of Probable Construction Costs (EOPC) will be provided.



Professional Engineering Services

1. Huntington Blvd Water Main Replacement

HRGreen

## 1. Data Gathering, Survey and Preliminary Project Coordination

COMPANY will coordinate a project kick-off meeting with the Village upon receipt of the Notice to Proceed. The purpose of this meeting is to review the Village's preferences for materials, proposed main locations, and anticipated project schedule. COMPANY will provide meeting minutes.

### Right of Way Survey

COMPANY will recover existing right of way evidence for approximately 2,500 – 3,000 feet of Huntington Blvd. from Mundhank Rd. to Lakewood Blvd. in Hoffman Estates, Illinois. COMPANY will calculate the existing right-of-way as shown on provided Plat of Dedication/right-of-way maps and recorded subdivision plats to include on the base map.

### Roadway Topographic Survey

The existing roadway will be surveyed at 100 foot cross-section intervals including the area extending from the west edge of pavement to 40 feet east of the centerline of Huntington Blvd. Survey will include existing visible features and improvements including topography lying within the limits as described above. Existing utilities will be surveyed from visible flags or markings. Storm, sanitary sewer and watermain structures will be surveyed, including rim elevation, invert pipe size, direction and elevation as observed at unlocked manhole including one structure upstream and downstream of the survey limits. Survey will reference existing NGS control stations, Illinois State Plane Coordinate System East Zone NAD83(2011). Elevations will be based upon NAVD88 or local benchmarks.

### Site Topography Survey Base Map

COMPANY will generate a MicroStation V8 SS4 drawing of the existing features collected along the roadway according to IDOT standards. One (1) foot contours will be generated with the elevations referenced to NAVD88 (U.S. Survey Feet). COMPANY will provide a MicroStation V8 SS4 drawing with existing features and improvements within the project limits to be shown. Topographic Survey base map will show tags to existing visible utilities and features.

### Concept Design

Upon completion of field survey, COMPANY will investigate the three (3) options discussed at the preliminary design meeting, including different installation methods and construction materials. These concept level designs will have an EOPC developed and a list of any design challenges associated with each. These concepts will be presented to the Village for review and discussion. It is anticipated that the Village will select one (1) of these options to continue with design.

### Data Gathering

It is COMPANY's understanding that there are no sanitary sewer facilities within the project area.

COMPANY will coordinate with utility companies to obtain maps of utilities within the project limits and place this information on the Final Engineering Plans.

COMPANY will coordinate with a sub-consultant to collect soils information to be used for the design of the project and preparation of the IEPA Certification Report. This will include seven (7) water main alignment soil borings to be screened for volatiles with a Photo Ionization Detector (PID) and selecting and submitting three (3) samples to an analytical laboratory for completing a LPC-663 form.



Items not included as part of the survey scope, but available under a separate contract include: Plat of Easement; Plats of Highways; Plat of Topography; and Tree Survey.

## **2. Design Guidelines**

The engineering and contract documents will be developed according to current AWWA Standards, the Village of Hoffman Estates Municipal Code requirements, and applicable local requirements. These include the following:

- a. Standard Specification for Water and Sewer Main Construction in Illinois;
- b. MWRD Stormwater Ordinance;
- c. Recommended Standards for Water Works (10 States Standards); and
- d. Illinois Department of Transportation Standard Specifications for Road and Bridge Construction (current version)

## **3. Design Engineering**

COMPANY will prepare Preliminary and Final Engineering plans and specifications for the Village to use for bidding purposes for the project. It is the COMPANY's understanding that the Village will provide their template contract document sections to be modified to meet the project requirements.

It is anticipated that the set of contract plans and specification will contain the following information:

1. Title Sheet/Plan Notes
2. Summary of Quantities
3. Material & Project Specifications
4. Plan Sheets
5. Construction Details

Engineering plans will provide proposed line and grade of the proposed water main, recommended locations for valves, fire hydrants, and reconnections to the existing water main. Recommended restoration limits will be shown for both paved and un-paved areas. Material specifications, based on the codes and ordinances, will be provided for all materials used in the project.

COMPANY will provide a project manual that will include all necessary bidding documents, agreement forms, insurance requirements, material specifications, special provisions and construction forms based on the Village's template documents.

COMPANY will provide internal QA/QC during this phase ensuring that the project is on schedule and budget, and that proper design guidelines are being followed.

A design review meeting will be held at both the preliminary submittal stage and the final submittal stage. COMPANY will review the plans, specifications and EOPC with Village staff. Each submittal will consist of two (2) full size (22"x34") plan sets, two (2) project specifications manuals, and two (2) copies of the EOPC. A PDF copy of each document will be provided as well. COMPANY will provide one (1) staff member at each meeting. COMPANY will provide meeting minutes.

COMPANY requests that the Village staff review the documents and provide any written comments in a timely manner. An exact timeline for review will be set at each design review meeting.



#### 4. Permitting

Based on the pre-proposal meeting with Village staff, it is COMPANY's understanding that the Village desires to replace the water main as a maintenance project and does not anticipate IEPA permitting. Should an IEPA permit be necessary, based on Village direction and the ultimate water main location, COMPANY will provide completed IEPA construction permits with Schedule A and B for the Village's signature. COMPANY will submit applications to the Illinois Environmental Protection Agency (IEPA) for review and approval. It is currently anticipated that the IEPA requires 60 days for review and processing of each permit submittal.

Based on preliminary review of the proposed project site by the COMPANY, it is anticipated that no Wetland impacts will occur and therefore no permitting will be required.

COMPANY will provide a Stormwater Permit Application for the Village to sign, and will submit to MWRD for approval.

#### 5. Bidding Assistance and Construction Support

During the bidding process, COMPANY will assist the Village staff in responding to contractors' requests for information and will assist with the issuance of addenda, as required. It is assumed that the Village will provide all other bidding services as are typically performed during publically bid in-house projects.

During the construction phase, COMPANY will provide shop drawing review, as necessary. It is anticipated that the shop drawings will consist of material cut sheets.

COMPANY will assist the Village staff with providing answers to contractors' requests for information during the construction phase. COMPANY staff will be available to review unforeseen field conditions. As indicated in the preliminary project proposal meeting, the Village will be providing all other construction engineering services using in-house staff.

COMPANY will attend meetings, as necessary, during the construction phase, anticipating two (2) meetings for project coordination. COMPANY will provide one (1) staff member for each meeting anticipating one (1) hour for each meeting. COMPANY will provide meeting minutes for attended meetings.

## Project Schedule

COMPANY will coordinate with the Village staff at the project kick-off meeting to determine dates for project milestones. Determining if the project will be a maintenance project or require an IEPA submittal will affect the schedule.



# Compensation

COMPANY offers the following man-hour estimate and Time and Material, Not to Exceed project cost.

Task	Hours	Cost
Data Gathering, Survey and Preliminary Project Coordination		
Survey/Base Plan Development	52	\$7,488.00
Soil Boring/CCDD	Direct Cost	\$11,156.00
Project Administration & Coordination	2	\$450.00
Concept Design	40	\$7,400.00
Design Engineering		
Utility Design	32	\$5,920.00
CADD	100	\$11,250.00
Quantities/EOPC	12	\$2,220.00
QA/QC	4	\$740.00
Project Administration & Coordination	8	\$1,480.00
Permitting	16	\$2,960.00
Bidding Assistance & Construction Support		
Bidding Assistance	8	\$1,480.00
Construction Observation	40	\$7,400.00
Material Submittal Review	16	\$2,960.00
<b>Not to Exceed Project Total:</b>	<b>330</b>	<b>\$62,904.00</b>





# VILLAGE OF HOFFMAN ESTATES

## DEPARTMENT OF PUBLIC WORKS

### July 2019 MONTHLY REPORT

SUBMITTED TO: Public Works Committee

August 2019

  
Joseph Nebel  
Director of Public Works

  
Kelly Kerr  
Assistant Director of Public Works

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#### MAJOR PROJECT STATUS

##### 2019 Valve Assessment Program

Project kick-off meeting was held on July 30, 2019 with M.E. Simpson for the exercise and assessment of 800 valves and concurrent leak survey. Work started on the same day. Before the end of July, 74 valves located in Parcel A were exercised and/or mapped with GPS coordinates determined. The concurrent leak survey covered 74 valves and 50 hydrants. Boxes/vaults of the completed valves have been pumped down by staff.

##### 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, which was completed in October, 2018 and covered all High Risk Areas (12 sub-basins with a total of 133,133 feet of sewer mains) per MWRD standards. Review of the final report is completed and 4 areas have been identified for further dye water testing to determine point of source of infiltration and inflow into the sanitary sewer system. Camera inspection of remaining 173 manholes. By the end of May 2019, all manholes in High Risk Areas is complete inspection is complete. Plans are being prepared for dye water testing in June to locate point sources of infiltration and inflow. Annual compliance report to MWRD is complete. A list of critical sewer repairs has been submitted for approval and planned work is to start in October or November pending a Village policy decision. MWRD is reviewing the Private Sector Program (PSP) and the Long Term Operation and Maintenance Program (LTOMP) submitted by staff.

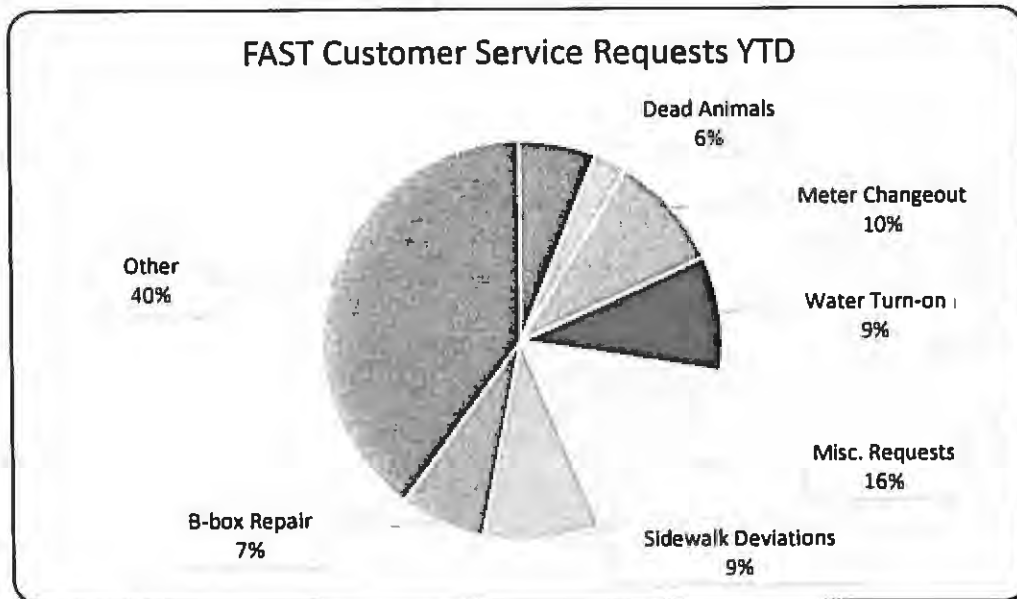


## Customer Services

### Fast Action Service Team (FAST):

1. Continued salt dome roller replacement project;
2. Began sidewalk replacement program.

Fast Action Service Team (FAST)												
Customer Service Requests												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
116	106	159	206	210	251	235						1283



### Customer Service Team:

1. Installed 2" compound meters at 570 Hill and 1075 Valley.

Customer Service Team												
Water Billing - Customer Service Appointments												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
40	45	63	56	68	47	47						366
Finance-generated Water Meter Readings												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
233	411	296	349	280	271	234						2074
Delinquent Water Accounts												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
139	106	115	107	88	101	101						757
New Construction Inspections												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
8	6	4	4	5	5	3						35

Customer Service Requests - Gov Q&A/Meter Repairs												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
19	34	32	21	43	20	27						196
Siding Permit Inspections												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
0	0	0	0	0	0	0						0
B-box Repairs												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
0	2	4	1	0	2	0						9
MIU Installations/Replacements												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
16	15	43	18	15	36	57						200

**Utility Locates Team:**

1. Continued program to locate b-boxes not currently located within system;
2. Provided water and sanitary sewer service line locates for Alhambra sanitary sewer reconstruction project;
3. Assisted with locates for the 2019 road reconstruction program.

Utility Locates Team												
JULIE Locates												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
176	172	677	800	889	746	639						4099
Emergency JULIE Locates												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
9	14	23	42	47	52	28						215
Utility Joint Meets												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
4	3	6	5	7	9	7						41

**Facilities**

1. Coordinated contracted dock repairs at Village Hall;
2. Performed general maintenance at Village Hall throughout building.

Facilities												
Preventative Maintenance Program - staff hours												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
98	102	112	116	106	91	90						715

**Fleet Services**

1. Appointed new Fleet Services Supervisor;
2. Continued Ford recall on Explorers for emissions;
3. Warranty repairs performed on unit #E22 and FT22.

Fleet Services												
Preventative Maintenance Program - Number of Repairs												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
19	22	22	29	17	20	16						145
Vehicles Sent for Warranty Repair												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
3	3	2	4	7	2	17						38

## Forestry

1. Performed stump grinding at various locations;
2. Coordinated repairs at the CAC butterfly garden;
3. Responded to service requests resulting from storm damage;
4. Performed sidewalk clearance tree trimming along Village-maintained state routes.

Forestry												
Customer Service Requests												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
11	9	20	28	66	82	98						314

## Maintenance & Construction

### Storm Sewer Team:

1. Completed major storm pipe repair on Algonquin Road;
2. Conducted concrete restoration at various water and sewer excavation sites;
3. Performed IEPA required monthly outflow inspections.

Storm Sewer Team												
Feet of Storm Sewer Flushed												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2,390	1,940	2,907	970	540	200	0						8,947
Catch Basin Rebuilds												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
0	0	0	4	4	5	5						18

### Construction/Maintenance Team:

- 1) Performed in-house leak detection with Gutermann equipment;
- 2) Investigated leak at Assembly restaurant;
- 3) Performed (2) water main repairs on Plum Grove Road;
- 4) Clear cut vegetation from water utilities on Shoe Factory Road.

Construction/Maintenance Team												
B-box Repair/Replacement												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1	4	9	4	3	12	4						37

Hydrant Replacement												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1	0	0	2	1	2	0						6
Valve Repair/Replacement												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1	1	2	1	2	3	1						11
Water Main/Service Line Leak Repairs												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2	3	4	3	2	2	3						19

## Traffic Operations

### Pavement Maintenance Team:

1. Coordinated monthly tailgate, JSA, and fork lift training and audiogram testing;
2. Continued in-house pavement marking program;
3. Completed pavement project at Village Green.

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	14.0	29.0	37.0	64.5						144.5
Tons of Cold Asphalt Installed												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
7.0	19.5	14.5	5.5	4.0	5.5	1.5						57.5

### Sign Team:

1. Performed type-I sign reposting on Angouleme Lane;
2. Assisted Pavement Team installing temporary lane shut down configuration equipment on Prairie Stone Parkway.

Sign Team												
Repaired/Replaced Signs												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
20	12	24	14	11	4	4						89
Signs Fabricated and Installed												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
40	100	167	150	80	134	16						687

### Street Light Team:

1. Assisted Pavement Maintenance Team with asphalt repairs at various locations;
2. Cleared tree branches obstructing street light fixtures throughout the Village;
3. Notified ComEd of (1) light out under their jurisdiction.

Street Light Team												
Customer Service Requests												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
13	7	12	6	6	9	8						61
Street Lights Repaired												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
27	18	31	15	40	79	24						234

## Water Operations

### Operations Team:

1. Installed new starter and calibrated chlorine reader at Abbey Wood pumping station;
2. Pulled, inspected, and cleaned pumps #1 and #2 at Eric lift station;
3. Pulled wiring at Police Department for EOC monitors;
4. Installed (2) new pumps at University lift station;
5. Continued valve exercising program;
6. Installed rebuilt pump #1 at Moon Lake lift station;
7. Replaced stop float at WDA lift station.

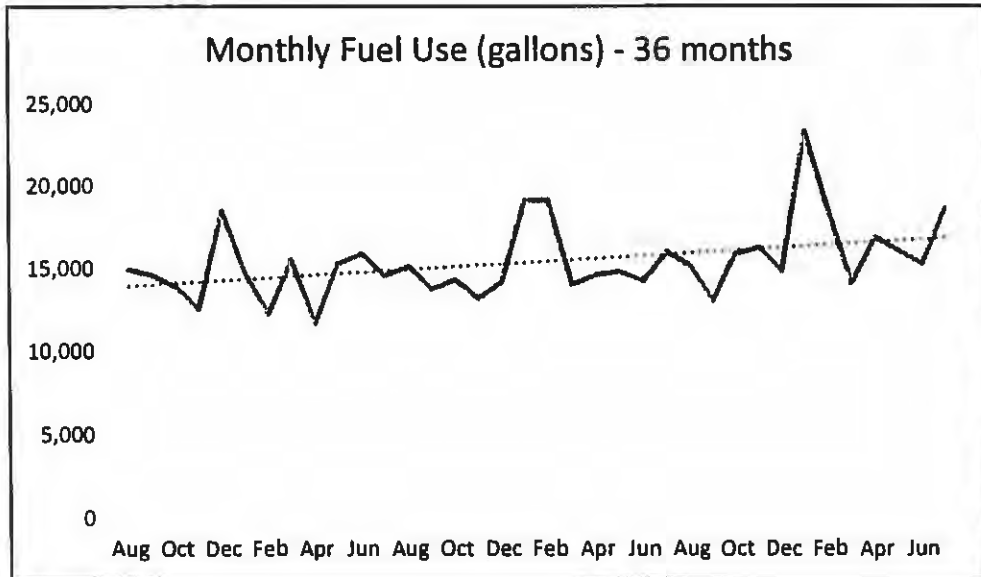
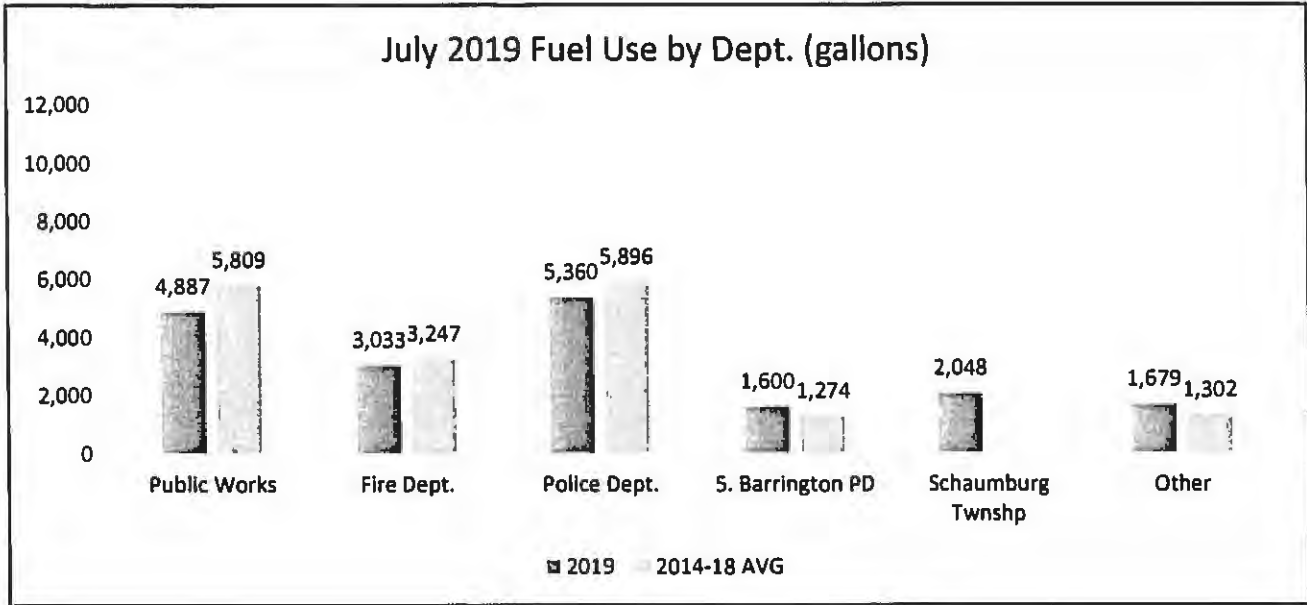
Operations Team												
Resident Water Quality Tests												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1	0	2	1	1	0	1						6

### Sanitary Sewer Flow Management Team:

1. Performed storm sewer inspections on Brittany Lane;
2. Completed restaurant and quarterly trouble spot lists;
3. Assisted Operations Team with wet well maintenance.

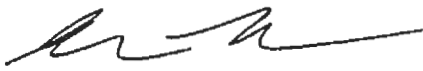
Sanitary Sewer Flow Management Team												
Sewer Lines Flushed (feet)												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
3,337	0	5,254	350	1,168	1,372	14,654						26,135
Sanitary Main Inspections (feet)												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
0	355	4,747	3,965	394	282	0						9,743

## Fuel Use Report



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

Attached is the Monthly Engineering Report of the Transportation and Engineering Division in the Department of Development Services for the period ending August 16, 2019.



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Alan Wenderski, P.E.  
Village Engineer

**MISCELLANEOUS**

Summary of miscellaneous items:

- 71 permit inspections
- 10 residential drainage investigations
  - 2 related surveys
- 1 floodplain inquiry
- Engineering plan review for:
  - Fountain Crossing Center – Concept
  - 1400 Gannon Drive
  - 1650 Moon Lake – Amita Behavioral Health
  - Adesa Phase 3 - Geometry
- Reviewed permits for:
  - 7 – Drainage
  - 2 – Retaining Wall
  - 3 – Detached Garage
  - 3 – Patio
  - 1 – Single-Family Residential
- Plan/permit review related to residential development:
  - 2 – Permit Plats
  - 3 – Top of Foundation
  - 17 – Final Grading
  - 11 – Certificates of Occupancy

**PROJECT STATUS**

<b>VILLAGE PROJECTS</b>	
<b>PROJECT NAME</b>	<b>DESCRIPTION</b>
<b>2019 Drainage Project</b>	Preliminary design ongoing. Locations to be selected after Stormwater Management Committee and Public Works & Utilities Committee September meetings. Village Project Manager: Shelley Walenga
<b>2019 Preventative Maintenance Project</b>	Project out to bid as of August 16 <sup>th</sup> . Bid opening scheduled for September 3 <sup>rd</sup> . Village Project Manager: Shelley Walenga
<b>2019 Street Revitalization Project</b>	See attached for current project status/schedule. Village Project Manager: Andy LoBosco
<b>Almond/Audubon Culvert Replacement</b>	Design work ongoing. Target bid opening in early fall and late fall construction. Chastain serving as design engineer. Village Project Manager: Shelley Walenga



<b>VILLAGE PROJECTS</b>	
<b>PROJECT NAME</b>	<b>DESCRIPTION</b>
<b>Prairie Stone Stormwater Management Plan</b>	Contract with V-3 to revise/update the 2004 Prairie Stone Stormwater Management Plan. Met with MWRD to discuss future permitting requirements within Prairie Stone on May 20 <sup>th</sup> . Village Project Manager: Alan Wenderski
<b>Stonegate Pond Basin</b>	Work complete. W-T completed review of as-built pond grading. 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	Punch list items completed. Compiling documents for public acceptance. Village Project Manager: Terry White
<b>Aldi</b> 375 West Higgins Road	Work complete. Awaiting as-built drawings. Village Project Manager: Terry White
<b>Buona Beef</b> 2250-2360 West Higgins Road	Approved by Village Board on February 25 <sup>th</sup> . Prior to start of work, awaiting and project guarantee. Village Project Manager: Alan Wenderski
<b>Bystronic/Eagle Way Extension</b> 2200 Central Road	Site work and building work ongoing. Clearing for Eagle Way completed. Staff reviewing plans for grading on north lot. Village Project Manager: Terry White
<b>Greenspoint Amenities</b> 2800 West Higgins Road 2300 Barrington Road	Exterior site improvements. Approved by Village Board on June 17 <sup>th</sup> . Awaiting engineer's estimate for project guarantee. Village Project Manager: Alan Wenderski
<b>Hoffman Plaza</b> Higgins and Roselle	Completion of detention basin improvements from Phase I schedule to be completed by end of summer. Reviewing project guarantee for Outlot 4. Village Project Manager: Alan Wenderski / Terry White
<b>Holiday Inn Express</b> 5235 Prairie Stone Parkway	Building work ongoing. Retaining wall construction and additional storm sewer installation scheduled to begin this month. Village Project Manager: Terry White
<b>Mercedes-Benz of Hoffman Estates</b> 1000 West Golf Road	Sidewalk and curb & gutter work complete. Permeable pavement work not yet completed. Village Project Manager: Terry White

<b>COMMERCIAL PROJECTS</b>	
<b>PROJECT NAME</b>	<b>DESCRIPTION</b>
<b>Shell – Ricky Rocket’s</b> 2590 West Golf Road	Building work ongoing. Exterior work substantially complete.  Village Project Manager: Terry White
<b>Schaumburg Township Parking Lot Expansion</b> 1 Illinois Boulevard	Site work ongoing. Storm sewer installation complete. Curb & gutter complete. Parking lot stone base installed and graded.  Village Project Manager: Terry White

<b>RESIDENTIAL PROJECTS</b>	
<b>PROJECT NAME</b>	<b>DESCRIPTION</b>
<b>Amber Meadows</b> NE Corner of Essex Drive and Beacon Pointe Drive	Home building ongoing.  Village Project Manager: Terry White
<b>Bergman Pointe</b> NW Corner of Ela Road and Algonquin Road	Home building ongoing. Signal modifications at Ela/Algonquin substantially complete. Final inspection for public improvements ongoing.  Village Project Manager: Terry White
<b>Devonshire Woods</b> SW Corner of Shoe Factory Road and Essex Drive	Home building ongoing. Final inspection for subdivision acceptance completed. Punch list work ongoing.  Village Project Manager: Terry White/Oscar Gomez

**From:** Arthur A. Fumarolo  
**To:** RoadConstruction  
**Subject:** Thank You and request  
**Date:** Friday, July 19, 2019 12:13:07 PM

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THANK YOU for the work on Fox Path Lane and Rhorsen; we are happy with the final product. We're appreciative of the consideration and work done by the Public Works crew on our driveway connection.

Now that the Fox Path and Rhorsen work is completed, please remove me from the weekly progress/work reports. They were informative and helpful.

Arthur Fumarolo

## 2019 Street Revitalization Project Schedule Update: (August 9, 2019)

RECONSTRUCTION STREETS	Start Date <sup>1</sup>	Pre-Construction			Construction											Landscaping		Percent Complete	
		Layout	Tree Root Pruning	Sawcutting	Concrete Removal	Asphalt Removal	Earth Excavation	Sub base Backfill	Storm Sewer	Curb & Gutter	Driveway Aprons	Sidewalks	Fine Grading	Asphalt Binder	Asphalt Surface	Striping	Backfill Topsoil		Sod & Seed
1 ALHAMBRA LANE: Ashland St to Arizona Blvd	8/19/2019																		
2. AVONDALE LANE: Alhambra Ln to Almond Ln	8/19/2019																		
3 HASSELL DRIVE: Hassell Rd to End of Street	9/3/2019																		
4 LAFLEUR LANE: Brittany Ln to Freeman Rd	9/3/2019																		
													Completed			In Progress			

<sup>1</sup> Tentative / Actual

**Definition of Construction Steps**

- Layout: Village engineers evaluate existing conditions, determine removals, and complete construction staking
- Tree Root Pruning: A circular saw machine cuts tree roots to reduce damage to the tree during construction.
- Saw Cutting: A circular saw machine cuts the concrete and asphalt at construction joints
- Concrete Removal: The contractor removes existing sidewalk, curb and gutter, and driveway aprons that will be replaced.
- Asphalt Removal: The contractor either uses a backhoe or milling machine to remove existing asphalt layers.
- Earth Excavation: Removal of the all materials located below the existing road to a stabilized subgrade
- Sub base Backfill: The installation of stone to a depth of 8"-12" with a layer of geotextile fabric.
- Storm Sewer: Repair and replacement of existing storm sewer structures and pipes
- Curb & Gutter: The installation of concrete curb & gutter utilizing mechanical equipment or hand tools
- Driveway Aprons: The replacement of asphalt and concrete driveway aprons
- Sidewalks: The replacement of concrete public sidewalks
- Fine Grading: The shaping of the stone sub base to ensure drainage, compaction, and elevation
- Asphalt Binder: The first layer of asphalt
- Asphalt Patching: Repair of localized pavement failures on resurficing streets
- Asphalt Surface: The final layer of asphalt
- Striping: Completion of permanent pavement striping
- Backfill Topsoil: Placement of topsoil to areas that have been disturbed during construction
- Sod & Seed: Placement of sod and seed to areas that have been disturbed during construction

**2019 Street Revitalization Project Schedule Update: (August 9, 2019)**

RESURFACING STREETS	Start Date <sup>1</sup>	Pre-Construction		Construction										Landscaping		Percent Complete	
		Layout	Sawcutting	Concrete Removal	Asphalt Removal	Storm Sewer	Curb & Gutter	Driveway Aprons	Sidewalks	Asphalt Binder	Asphalt Patching	Asphalt Surface	Striping	Backfill Topsoil	Sod & Seed		
1 ANGOULEME LANE Bison Ln to Rohrsen Rd	5/20/2019							n/a									100%
2 ANJOU LANE Versailles Rd to Picardy Ln	7/31/2019																
3 APPLE STREET Higgins Rd to Golf Rd	9/2/2019																
4 ATLANTIC AVENUE Bode Rd to Pacific Ave	5/23/2019											n/a					100%
5 BAYSIDE COURT W Bayside Cir to End of Street	10/14/2019																
6 BERKLEY LN W Washington Blvd to Spring Mill Dr	6/24/2019											n/a					97%
7 BORDEAUX DRIVE Versailles Rd to Charlemagne Dr	8/19/2019																
8 BUCKTHORN DRIVE Huntington Blvd to Lombardy Ln	8/5/2019																
9 BULRUSH DRIVE Sweetflower Dr to Harmon Blvd	6/11/2019											n/a					82%
10 CLOVER LANE Old Timber Ln to Sunflower Ln	10/21/2019																
11 COLONY LANE Firestone Dr to Lexington Dr	7/25/2019																
12 CRANSHIRE COURT Regent Dr to End of Street	7/15/2019					n/a						n/a					60%
13 FOX PATH LANE Rohrsen Rd to Mallard Ln	5/20/2019								n/a			n/a					100%
14 FREEMAN ROAD Mumford Dr to Park Ln	9/30/2019																
15 GREENSPPOINT PARKWAY Higgins Rd to Higgins Rd	9/16/2019																
16 HARRISON LANE Firestone Dr to Winston Dr	7/26/2019																
17 LEATHERLEAF LANE Alder Dr (N) to Whispering Trails Dr	8/15/2019																
18 MOHAVE STREET Illinois Blvd to Lincoln St	8/26/2019																
19 NANTUCKET COURT Stone Harbor Dr to End of Street	10/14/2019																
<sup>1</sup> Tentative / Actual										Completed		In Progress					
All resurfacing streets to be completed within 30 days of start date																	

**2019 Street Revitalization Project Schedule Update: (August 9, 2019)**

RESURFACING STREETS	Start Date	Pre-Construction		Construction										Landscaping		Percent Complete	
		Layout	Sawcutting	Concrete Removal	Asphalt Removal	Storm Sewer	Curb & Gutter	Driveway Aprons	Sidewalks	Asphalt Binder	Asphalt patching	Asphalt Surface	Striping	Backfill Topsoil	Sod & Seed		
20. NORTHVIEW LANE Shepard Rd to End of Street	9/9/2019																
21. PACIFIC AVENUE Bode Rd to Atlantic Ave	5/22/2019											n/a					100%
22. PARKVIEW CIRCLE Hassell Rd to Hassell Rd	9/3/2019																
23. PICARDY LANE Charlemagne Dr to End of Street	8/1/2019																
24. PRESTWICK PLACE Chambers Dr to Chambers Dr	10/28/2019																
25. REGENT DRIVE Wilshire Dr to Wilshire Dr	6/28/2019																67%
26. ROTHSSEN ROAD Golf Rd to 400 feet N of McDonough Rd	5/21/2019					n/a		n/a									100%
27. SHOE FACTORY BIKE PATH Ivy Ridge Dr to CN Railroad	TBD																
28. STURBRIDGE DRIVE E Mumford Dr to Westbury Dr	10/7/2019																
29. SWEETFLOWER DRIVE Harmon Blvd to End of Street	6/11/2019											n/a		n/a			100%
30. TARRINGTON DRIVE Castaway Ln to Dukesberry Ln	11/4/2019																
31. VERSAILLES ROAD Algonquin Rd to Charlemagne Dr	8/19/2019																
<i>Tentative / Actual</i>											Completed		In Progress				

All resurfacing streets to be completed within 30 days of start date