

AGENDA
SPECIAL TRANSPORTATION AND ROAD IMPROVEMENT COMMITTEE
Village of Hoffman Estates
April 22, 2019

Immediately Following Public Works & Utilities

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

I. Roll Call

NEW BUSINESS

1. Request authorization to award contract for the 2019 Street Revitalization Project to Arrow Road Construction, of Elk Grove Village, IL (low bid) in the amount of \$6,479,463.
2. Request authorization to award contract for materials testing for the 2019 Street Revitalization Project to Applied GeoScience, Inc., of Schaumburg, IL (low proposal estimate) in an amount not to exceed \$160,000.

II. 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 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.

**COMMITTEE AGENDA ITEM
VILLAGE OF HOFFMAN ESTATES**

SUBJECT: Request authorization to award contract for the 2019 Street Revitalization Project to Arrow Road Construction, of Elk Grove Village, IL (low bid), in the amount of \$6,479,463.

MEETING DATE: April 22, 2019

COMMITTEE: Special Transportation and Road Improvement

FROM: Michael Hankey and Alan Wenderski

PURPOSE: The purpose of this item is to present the bids for the 2019 Street Revitalization Project and recommend approval of award of contract for this work.

DISCUSSION: Four bids were received on April 15, 2019 for this year’s project. A copy of the proposed street list and map are attached. The project scope consists of street reconstruction, resurfacing, curb and gutter, storm sewer, sanitary sewer, and sidewalk replacement on various streets. The bids are summarized below. The engineer’s estimate was \$7,229,829 which is explained in more detail below. A summary of the bids received is shown in Table 1.

Table 1 – Bid Summary

Name	Bid Cost
Arrow Road	\$6,479,463
Schroeder Asphalt Services	\$6,964,793
Plote Construction	\$7,171,233
A Lamp Concrete	\$7,394,464

Arrow Road has worked on several previous Village street projects, and has completed all past work in an acceptable manner. Arrow is listed by IDOT as qualified to perform this type of work. In addition to the reconstruction and resurfacing work included with the street contract, other components of the comprehensive revitalization program, such as material testing, are bid separately and are discussed in a later section.

Scope of 2019 Street Revitalization Project

Along with the reconstruction and resurfacing street segments approved as part of the CIP, several separately budgeted projects

DISCUSSION: (Continued)

(stormwater and sanitary sewer) were included within the scope and bid of the Street Revitalization Project as the work was proposed within the same or adjacent locations of proposed streets. Combining these project locations together is intended to take advantage of economies of scale of similar work items.

The reconstruction and resurfacing locations are unchanged from what was proposed in the CIP last fall, however some funding assumptions have changed. At the CIB, it was proposed that CDBG funding would be utilized for the reconstruction of Hassell Drive. After further review, it was determined that Hassell Drive is no longer within an area that is eligible for CDBG funding. However, staff has confirmed that Atlantic Avenue and Pacific Avenue are within an eligible area and that the proposed resurfacing of these streets could be funded with CDBG funds. While resurfacing of Atlantic and Pacific was included in the proposed project as presented to the CIB last fall, CDBG funds will be applied towards this work. There is also an additional \$20,000 available of CDBG funds for street improvements above the approved amount in the 2019 budget, which will apply to the resurfacing of these two streets.

In November 2018, the Village was made aware of the potential availability of additional MFT funds through the Cook County Commissioner's office. Due to the limited amount and use of these funds, two projects were submitted for consideration: Clover Lane resurfacing (\$75,000) and Shoe Factory Road Corridor Bicycle Path – Phase II engineering (\$75,000). The County recently informed the Village that this funding request was approved, pending completion of an Intergovernmental Agreement. As a result, Clover Lane was added to the scope of the 2019 street project. The cost will be covered completely through the County funds.

Two budgeted stormwater projects (Apple Street Culvert and Arizona Boulevard Storm Sewer) are included in the 2019 street project scope. It was decided to include this work with the street project to take advantage of the economies of scale for similar work items. The project locations are also within or adjacent to other proposed street work this year. Additionally, the stormwater budget included funding for various drainage improvement locations within the limits of the street work. Drainage improvements on Northview Lane were included in the 2019 street project bid package.

A budgeted sanitary sewer project on Arizona Boulevard, Alhambra Lane, and Avondale Lane is included in the scope of the project. This project was identified during 2018 street project design and the reconstruction of Alhambra Lane was deferred last year to allow for design to be completed. Combining the sanitary sewer improvements and street reconstructions allow for lower overall costs of sewer work and a shorter overall construction duration for area residents.

Each year, the project team looks for opportunities to improve pedestrian and bicycle connections through the street project by furthering the goal of creating Complete Streets per the Village policy. For 2019, two locations for new sidewalk were included in the street project bid package. The nature of the work is consistent with items and unit costs included with the annual street project. The first location is to complete sidewalk connections on Pembroke Avenue east of the Pace Kiss-n-Ride. Pace expects to finish construction this summer, so this sidewalk would improve walking connections and benefit transit users who park on Pembroke Avenue to access the station area. The second location is to install sidewalk on the west side of Eagle Way from Lakewood Boulevard to

DISCUSSION: (Continued)

the Claire's / Siemens driveways. Eagle Way is being extended to Central Road this year as part of the Bystronic Development. This link would greatly improve pedestrian access to the Central Road path (under design), which in turn will link to the Park-n-Ride. In the interim, pedestrian connectivity between Lakewood Boulevard and Central Road, as well as access for the adjacent businesses, will be improved. The 2019 budget included funding for sidewalk improvements which will cover roughly half the estimated cost with the balance available from the overall street project bid being under budget.

A structural overlay of Greenspoint Parkway, along with improved pedestrian connections, are included in the 2019 project scope. Rehabilitation of Greenspoint Parkway was deferred for several years pending the Tollway's completion of their work in this area required by the interchange. The portion of Greenspoint Parkway in the northeast corner of the development was reduced from two to one lane per direction and the median was removed as part of the interchange work. As the single lane per direction in this section has operated effectively, the Greenspoint design reduces the road to one lane per direction from the end of the Tollway work to the Hassell Road extension. South of this point, as well as in other sections, the two lanes per direction will be retained. The reduction in pavement width allows the sidewalk installed with the interchange on Greenspoint to be extended to the Hassell Road extension. The plans also call for linking to the existing sidewalk south of the Hassell Road extension to complete the connection to Higgins Road per Complete Streets policy. Coordination with the Greenspoint property manager occurred during the design phase as they are considering some complementary pedestrian improvements on their property. The cost of the Greenspoint Parkway structural overlay, pavement modifications, and sidewalk work is considerably less than had been estimated under other scenarios where more extensive changes, such as removing the median, were being evaluated.

In total, all the components detailed above, including the scope additions, can be completed for a total cost below the budgeted amount for 2019. The following section provides further explanation of the project funding and budget.

2019 Street Reconstruction and Resurfacing Budget and Costs

Table 2 shows the low bid amount compared to the budgeted amounts for all components of the Street Revitalization Project, including stormwater, sanitary sewer, and sidewalk. The low bid is below the budget amount for reconstruction/resurfacing and stormwater, but above the budgeted amount for sanitary sewer improvements. Some funds for proposed sidewalk improvements were in the 2019 budget and the remainder can be accommodated because the overall project costs for road work are less than estimated.

Table 2 – Estimated Project Related Costs

Item	Budget	Low Bid	Under Budget / (Over Budget)	% Difference
Reconstruction/Resurfacing ¹	\$5,777,270	\$5,390,640	\$386,630	
Stormwater	\$565,000	\$481,191	\$83,809	

Item	Budget	Low Bid	Under Budget / (Over Budget)	% Difference
Sanitary (Alhambra)	\$375,000	\$454,731	(\$79,731)	
Clover Lane - Cook County	\$75,000	\$74,581	\$419	
Sidewalk	\$40,000	\$78,210	(\$38,210)	
Street Contract Total	\$6,832,270	\$6,479,353	\$352,917	-5%
Material Testing	\$125,000	\$160,000	(\$35,000)	
Street Contract plus Testing	\$6,957,270	\$6,639,353	\$317,917	-5%
Preventative Maintenance ²	\$300,000	TBD		
Survey ²	\$25,000	TBD		

¹ – Includes additional \$20,000 from CDBG

² – Project costs are estimated as the need and final costs will be determined later in the year. Preventive maintenance includes crack sealing and surface patching which are done under separate contracts based on needs.

Three of the four bids received, including the low bid, were under the Engineer's Estimate. The other bid was within about 2% of the estimate. Development of the Engineer's Estimate uses historical bid prices which are then checked with results from any recent bid openings. The range of bid costs received reflects a favorable environment for the types of work included in the project scope.

FINANCIAL IMPACT:

As shown in Table 2, the low bid amount is less than the budget included for reconstruction and resurfacing in 2019. Funding for Alhambra Lane sanitary work, which is over the estimated budget amount, will be paid from the balance in the 2017 bond issue. The funds needed to complete the sidewalk sections can be allocated from the 2019 street project budget with the total still being below the budget. Contract amounts for other street revitalization components will be determined through separate contracts later this year. The material testing contract is recommended for approval at a not to exceed amount of \$160,000 which also fits within the budgeted total. Any unused funds from this year's street project budget should be carried to 2020 as the demand for resurfacing streets is expected to be high again. This practice also offers some flexibility if significant unforeseen expenses are incurred.

RECOMMENDATION:

Request authorization to award contract for the 2019 Street Revitalization Project to Arrow Road Construction, of Elk Grove Village, IL (low bid), in the amount of \$6,479,463.

VOHE 2019 Reconstruction Streets

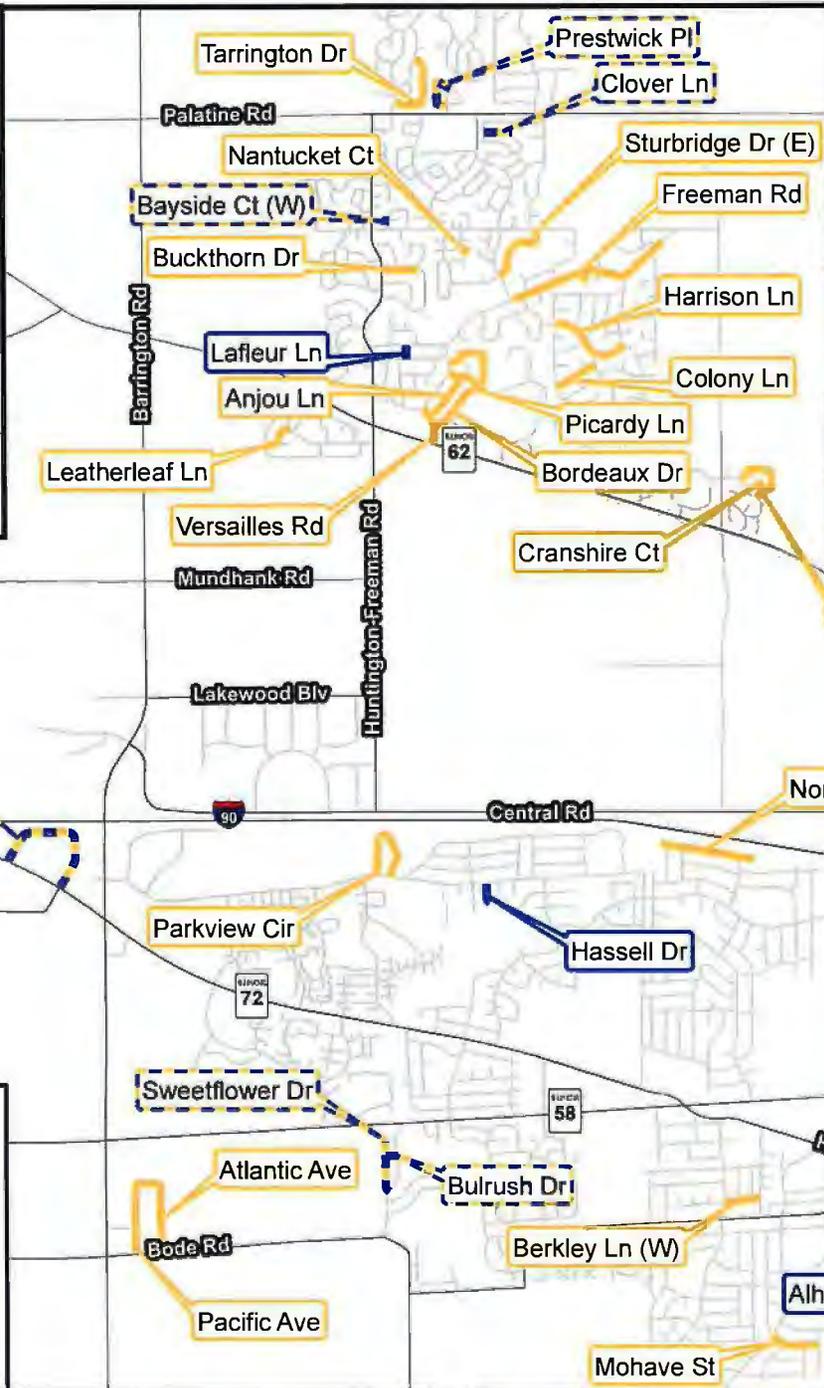
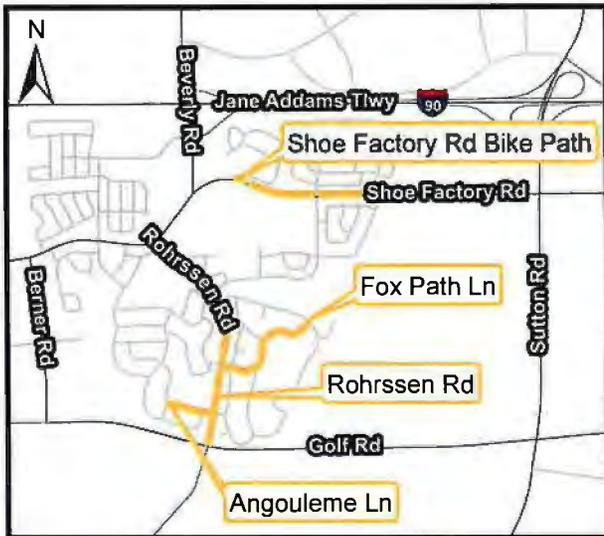
Street	Begin	End
ALHAMBRA LN	ASHLAND ST	ARIZONA BLVD
AVONDALE LN	ALHAMBRA LN	ALMOND LN
HASSELL DR	HASSELL RD	END OF THE ST
LAFLEUR LN	BRITTANY LN	FREEMAN RD

VOHE 2019 Resurfacing Streets

Street	Begin	End
ANGOULEME LN	BISON LN	ROHRSEN RD
ANJOU LN	VERSAILLES RD	PICARDY LN
APPLE ST	HIGGINS RD	GOLF RD
ATLANTIC AVE	BODE RD	PACIFIC AVE
BERKLEY LN W	WASHINGTON BLVD	SPRING MILL DR
BORDEAUX DR	VERSAILLES RD	CHARLEMAGNE DR
BUCKTHORN DR	HUNTINGTON BLVD	LOMBARDY LN
COLONY LN	FIRESTONE DR	LEXINGTON DR
CRANSHIRE CT	REGENT DR	END OF THE ST
FOX PATH LN	ROHRSEN RD	MALLARD LN
FREEMAN RD	MUMFORD DR	PARK LN
HARRISON LN	FIRESTONE DR	WINSTON DR
LEATHERLEAF LN	ALDER DR (N)	WHISPERING TRAILS DR
MOHAVE ST	ILLINOIS BLVD	LINCOLN ST
NANTUCKET CT	STONE HARBOR DR	END OF THE ST
NORTHVIEW LN	SHEPARD RD	END OF THE ST
PACIFIC AVE	BODE RD	ATLANTIC AVE
PARKVIEW CIR	HASSELL RD	HASSELL RD
PICARDY LN	CHARLEMAGNE DR	END OF THE ST
REGENT DR	WILSHIRE DR	WILSHIRE DR
ROHRSEN RD	GOLF RD	SHOE FACTORY RD
SHOE FACTORY BP	IVY RIDGE DR	CN RAILROAD
STURBRIDGE DR E	MUMFORD DR	WESTBURY DR
TARRINGTON DR	CASTAWAY LN	DUKESBERRY LN
VERSAILLES RD	ALGONQUIN RD	CHARLEMAGNE DR

VOHE 2019 Structural Overlay Streets

Street	Begin	End
BAYSIDE CT W	BAYSIDE CIR	END OF THE ST
BULRUSH DR	SWEETFLOWER DR	HARMON BLVD
CLOVER LN	OLD TIMBER LN	SUNFLOWER LN
GREENSPOINT PKWY	HIGGINS RD	HIGGINS RD
PRESTWICK PL	CHAMBERS DR	CHAMBERS DR
SWEETFLOWER DR	HARMON BLVD	END OF THE ST



TRANSPORTATION
& ENGINEERING DIVISION

**PROPOSED
2019 STREET PROJECT**

Legend

- RECONSTRUCTION
- RESURFACING
- STRUCTURAL OVERLAY

**COMMITTEE AGENDA ITEM
VILLAGE OF HOFFMAN ESTATES**

SUBJECT: Request authorization to award contract for materials testing for the 2019 Street Revitalization Project to Applied GeoScience, Inc., of Schaumburg, IL (low proposal estimate) in an amount not to exceed \$160,000.

MEETING DATE: April 22, 2019

COMMITTEE: Special Transportation and Road Improvement

FROM: Michael Hankey and Alan Wenderski

PURPOSE: To present the proposals for materials testing for the 2019 Street Revitalization Project and recommend approval of award of contract for materials testing.

DISCUSSION: The Village received nine qualified proposals for professional services for the testing portion of this year's street project. The proposals are summarized below. Note the estimated cost in Table 1 was not specifically listed in the proposals. Rather, it was calculated based on the estimated numbers of tests by type based on unit costs provided in the proposals.

Table 1: Proposal Summary

Firm	Estimated Cost
Applied GeoScience, Inc.	\$144,205.00
Construction & Geotechnical Material Testing, Inc.	\$151,325.00
Soil & Material Consultants	\$188,145.00
Rubino Engineering, Inc.	\$190,508.13
NASHnal Soil Testing	\$227,862.90
Geocon	\$236,940.00
Geo Services, Inc.	\$242,374.85
Chicago Testing Lab	\$246,870.00
Testing Service Corp	\$249,503.15

DISCUSSION: (Continued)

As part of the request for proposal information, staff estimated the amount of hours and testing needed for the 2019 Street Project. Actual quantities of asphalt and concrete testing from previous years were applied to the proposed scope of work for the 2019 project. In addition, the number of pavement cores completed in 2018 was used for this year's testing scope. The data from the cores assist staff in the design of streets in future years. The estimated hours in the Village estimate were then applied to the submitted proposals to estimate the project cost. Applied GeoScience, Inc. provides the lowest total cost based on estimated units of work. This company has performed these tasks on a number of Village street projects and has done an exceptional job.

It should be noted that the estimated cost is calculated by applying the unit costs for various tests and services in the proposals to the estimated quantities likely to occur over the course of the project. Variations in these quantities are possible depending on the daily progress of the street project contractor.

For this year's project, the recommendation is to award the testing contract at a not to exceed amount about 10% higher than the estimated cost. This approach allows some flexibility and contingency if unexpected circumstances are encountered that require additional testing. Environmental testing for other stormwater projects, such as the Almond and Audubon storm sewer work now planned for 2019, can be incorporated in this one contract. Collecting a number of pavement cores this year for future streets will enable staff to have data in time to advance design work. As a reference during 2018, the scope of the material testing contract expanded to include items which were not initially identified through the budget process last year, such as analysis needed for storm sewer and surface patching.

FINANCIAL IMPACT:

The 2019 budget included \$125,000 for material testing. However, the scope of the increased number of reconstruction, structural overlay, and resurfacing streets, combined with the stormwater and sanitary projects in 2019, means that the cost for needed material testing will be higher than the budget amount. The material testing will be funded through the Capital Revenues. The staff recommendation is to award this contract at a not to exceed amount of \$160,000. As the low bid for the street project, presented in a separate item this month, is significantly less than the 2019 budget amount, there are adequate funds to cover the not to exceed cost recommendation for material testing.

RECOMMENDATION:

Request authorization to award the contract for materials testing for the 2019 Street Revitalization Project to Applied GeoScience, Inc. of Schaumburg, IL (low proposal estimate) in an amount not to exceed \$160,000.