



Date: April 21, 2020
To: Village President & Board of Trustees
From: Michael Braiman, Village Manager
Subject: Engineering Program Analysis- Cost Savings for Consideration

At the April 14, 2020 Village Board meeting, staff presented cost saving options for this year's engineering program with the intent that contracts for the annual street resurfacing, alley and brick street maintenance programs would be on the April 28 agenda for approval.

As part of the April 14 discussion, staff identified approximately \$220,000 in recommended engineering program savings that would minimally impact the long-term condition of the Village's infrastructure. As part of the discussion, the Board requested options for additional savings that could be implemented later this year when the financial impact of COVID-19 may be better known. Accordingly, the engineering team has identified \$459,000 in additional savings that can be considered over the course of the next several months.

The table below summarizes the current staff recommendation as well as the additional savings and decision timelines. At this time, staff continues to recommend completing all planned work for the street resurfacing, alley maintenance and brick street maintenance programs with the option to defer portions of the work later this year.

Description	Budget	Rec'd Revised Budget	Rec'd Savings	Potential Add'l Savings	Decision Date on Add'l Savings/Work
Street Resurfacing	2,750,000	2,699,000	51,000	215,000	June 9
Alley Maintenance	450,000	410,000	40,000	172,000	June 9
Brick Maintenance	110,000	72,000	38,000	18,000	July 14
Street Patching	92,000	92,000	-	23,000	July 14
Sidewalk Repclmnt.	70,000	63,000	7,000	18,000	July 14
Pavement Marking	50,000	50,000	-	13,000	July 14
Curb Replacement	25,000	5,000	20,000	-	July 14
Pavement Rejuv.	19,000	-	19,000	-	July 14
Crack Sealing	25,000	25,000	-	-	N/A
Traffic Calming	25,000	1,000	24,000	-	N/A
Road Engineering	170,000	170,000	-	-	N/A
Skokie Valley Trail ¹	N/A	N/A	20,000	-	N/A
Totals	3,786,000	3,587,000	219,000	459,000	

Yellow highlights = Contracts up for approval on April 28

Gray highlights = Contracts already approved

¹ *The Skokie Valley Trail project is predominantly grant funded and the net cost to the Village in 2020 was to be \$20,000; the project has been deferred to 2021

Staff intends for the decision points regarding additional savings to be on the June 6 and July 14 Village Board agendas for consideration.

Additional details regarding the above analysis can be found in the attached table prepared by the engineering team. For the Board's reference, a draft of the street resurfacing and alley/brick street maintenance April 28 agenda items are also attached. Board members with questions regarding the action items for April 28 are encouraged to contact myself or Director of Engineering & Public Works Brigitte Berger.

The construction contracts up for approval on April 28 will not be on the Consent Agenda and will follow a 2020 financial forecast presentation to provide additional context to the Village Board's deliberations.

2020 Engineering Program Cost Saving Options

Description	Budget	Rec'd Revised Budget	Rec'd Savings	Potential Additional Savings (only if needed)	Potential Additional Savings Comments	Construction Timing	Decision Timing
Street Resurfacing	\$2,750,000	\$2,699,000	\$51,000	\$215,000	Defer Sprucewood Lane (alternate 1) at \$88k, Washington Ave (alternate 2) at \$80k and Sprucewood Drive (base bid) at \$47k	May to September	4/28 award & 6/9 decision on additional savings
Alley Maintenance Program	\$450,000	\$410,000	\$40,000	\$172,000	Reduction of full alley at \$118k and/or reduction of 1/2 alley (alternate) at \$54k	June to August	4/28 award & 6/9 decision on additional savings
Brick Street Maintenance	\$110,000	\$72,000	\$38,000	\$18,000	25% contract reduction	September	4/28 award, 7/14 decision on additional savings
Street Patching	\$92,000	\$92,000	\$0	\$23,000	25% contract reduction	May - Phase 1 Early Sept - Phase 2	Awarded 3/10, 7/14 decision on additional savings
Sidewalk Replacment Program	\$70,000	\$63,000	\$7,000	\$18,000	25% contract reduction	April - Phase 1 August Phase 2	Awarded 2/25, 7/14 decision on additional savings
Pavement Marking Program	\$50,000	\$50,000	\$0	\$13,000	25% contract reduction	Late September to Early October	Awarded 3/10, 7/14 decision on additional savings
Curb Replacement	\$25,000	\$5,000	\$20,000	\$0	NA	April - Phase 1 August Phase 2	Awarded 3/25, 7/14 decision to maintain savings
Pavement Surface Rejuvenation	\$19,000	\$0	\$19,000	\$0	NA	August	Contracted, 7/14 decision to cancel contract
Crack Sealing	\$25,000	\$25,000	\$0	\$0	NA	Late April or Early May	Awarded 2/25, proceeding with work
Traffic Calming Program	\$25,000	\$1,000	\$24,000	\$0	NA	NA	NA
Road Program Eng. Services	\$170,000	\$170,000	\$0	\$0	NA	NA	NA
Skokie Valley Bike Trail*	N/A	N/A	\$20,000	\$0	NA	NA	NA
	3,786,000	3,587,000	219,000	459,000			

*The Skokie Valley Trail project is predominantly grant funded and the net cost to the Village in 2020 was to be \$20,000; the project has been deferred to 2021



Engineering & Public Works Department

SUBJECT: 2020 Motor Fuel Tax (MFT) Road Program

MEETING DATE: April 28, 2020

FROM: [Brigitte Berger-Raish](#), P.E. Director of Engineering and Public Works
[Dan Manis](#), P.E., Village Engineer
[Ryan Kearney](#), P.E., Project Manager

BUDGET IMPACT:	Contract Cost:	\$2,344,369
	Budget:	\$2,400,000
	Over/(Under) Budget	(\$55,631)

This item is of an immediate and critical nature to prevent further degradation of the Village's infrastructure; the construction must be performed during warm weather months and approval will provide for the project to start in May and completed by September 2020.

Recommended Motion

Move to approve a contract in an amount not-to-exceed \$2,344,369 with J.A. Johnson Paving Co., Arlington Heights, IL, for the 2020 MFT Road Program.

Background

The purpose of the Road Program is to rehabilitate Village-owned streets that are in very poor condition. The typical scope of work consists of intermittent curb and sidewalk improvements, minor utility repairs, pavement surface removal, pavement patching, hot-mix asphalt (HMA) binder and surface installation, and parkway restoration.

In 2019, the Village Board reviewed funding options for the Road Program and determined that an enhanced budget was necessary to improve the overall pavement condition of Wilmette roadways. As such, the Board committed to a \$2.75 million Road Program for 2020 as follows:

- Asphalt/Concrete Resurfacing: \$2,400,000
- Brick Overlay: \$350,000

Note: The brick overlay work, while funded as part of the annual Road Program, has been bid as part of the alley and brick street maintenance contract which can be found in Agenda Item 6.42.

Additionally, the Village is now budgeting separately for necessary engineering services such as soil sampling and surveying to ensure full funding of the annual Road Program. For 2020, this cost is \$170,000 and is not part of this contract approval.

The chart below displays the total area rehabilitated through this program since 2015:

Road Program History					
Item	2015	2016	2017	2018	2019
Streets* (in square feet)	129,469	123,197 [^]	169,655 [^]	197,301 [^]	86,256
Equivalent Miles ⁺	0.94	0.90	1.24	1.44	0.63

* = These values do not include the roadways rehabilitated by other Village projects.

[^] = The value includes a street where the surface was converted back to brick pavers.

⁺ = At the Village average street width of 26 feet wide.

The total roadway rehabilitation area for this project is approximately 322,097 square feet. Another 14,567 square feet of roadway will be rehabilitated from asphalt to brick as part of the 2020 Alley & Brick Street Reconstruction Program contract (Agenda Item 6.42) for a total area of 336,664 square feet and equivalence of 2.45 miles which represents nearly 4% of the locally maintained non-brick roadway network.

The Road Program is designed and managed by Engineering staff. The Village utilizes pavement evaluation software and field inspections to prioritize roadway rehabilitation needs. The following streets were selected for the 2020 program:

<u>Street</u>	<u>From</u>	<u>To</u>
Greenleaf Ave.	9th St.	4th St.
Greenwood Ave.	Dartmouth Ave.	Hunter Rd.
Kenilworth Ave.	Locust Rd.	Princeton Pl.
Maple Ave.	4th St.	R&R Tracks
Prairie Ave.	15th St.	Wilmette Ave.
Princeton Pl.	End of Pavement	Greenwood Ave.
Sprucewood Dr.	Cul-de-sac	Sprucewood Rd.
Sprucewood Ln. ²	Cul-de-sac	Illinois Rd.
Washington Ave.	8th St.	Sheridan Rd.
Washington Ave. ¹	Sheridan Rd.	Michigan Ave.
Wilshire Dr.	Cul-de-sac	Wilshire Dr. E.
Wilshire Dr. E.	Wilshire Dr. W.	Glenview Rd.
Wilshire Dr. W.	Wilshire Dr. E.	Glenview Rd.

¹ Alternate 1 Bid ² Alternate 2 Bid

Discussion

The bid document for the 2020 MFT Road Program was published on the Village website and advertised in the Illinois Department of Transportation (IDOT) Contractor's Bulletin on March 12, 2020. Bids were opened on April 2, 2020. The project had two (2) qualified bidders. The bid results are summarized below:

Company	Base Bid	Alternate 1	Alternate 2	Base + Alt. 1 + Alt. 2
J.A. Johnson Paving Co.	\$2,177,103.76*	\$79,652.80	\$87,612.07	\$2,344,368.63
Peter Baker & Son Co.	\$2,400,774.90	\$88,847.40	\$101,586.67	\$2,591,208.97
Engineers' Estimate	\$2,390,334.25	\$87,396.50	\$87,557.50	\$2,565,288.25

* As corrected

J.A. Johnson Paving Co. submitted the lowest qualified bid of \$2,344,369 (Base Bid plus Alternate 1 and Alternate 2). J.A. Johnson Paving Co. has previous construction experience in Wilmette, most recently serving as general contractor for the 2018 Road Program. The work at that time was completed to the satisfaction of Engineering staff. Based on their competitive bid and previous work experience, the Engineering and Public Works Department recommends awarding the 2020 MFT Road Program to J.A. Johnson Paving Co.

Schedule

The 2020 MFT Road Program is scheduled to begin early-May and be completed by end-September 2020.

Budget Impact

The 2020 Road Program is allocated to various accounts within the general and motor fuel tax funds. The general fund dollars have dedicated revenues allocated towards the annual road program. Work associated with this contract are a component of the below accounts and are within the FY 2020 budget.

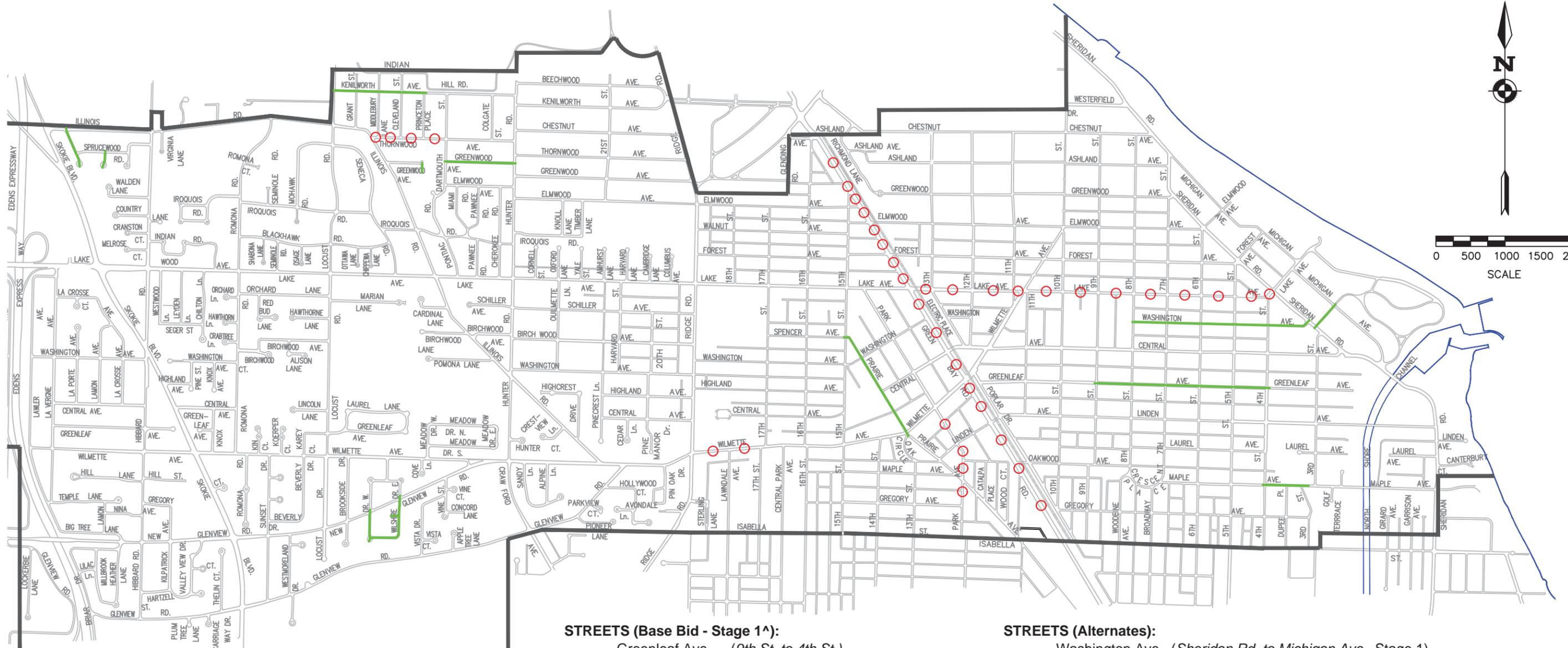
Description	2020 Budget	Contract Amount	Account Number
Street Resurfacing (Dedicated General Fund Revenue)	\$1,200,000	\$1,144,369	11202035-425250
Motor Fuel Tax (MFT)	\$1,200,000	\$1,200,000	22632070-470100
Total	\$2,400,000	\$2,344,369	

As discussed on page one, a portion of the 2020 Road Program is allocated to the Forest Avenue brick overlay which is included in Agenda Item 6.42.

COVID-19 Consideration: The contract award recommendation is for the entire bid amount; however, the Village Board may choose to reduce the scope of work included in the project. In June, staff will prepare options for up to \$215,000 in contract value reductions for Village Board consideration. Options will include deferral of Sprucewood Lane (Alternate 1) at \$88,000, Washington Ave (Alternate 2) at \$80,000 and Sprucewood Drive (base bid) at \$47,000.

Documents Attached

1. Road Program Map
2. Bid Tabulations
3. 2020 CIP Sheets for Road Program



Village of Wilmette 2020 Road Program Location Map

STREETS (Base Bid - Stage 1[^]):

- Greenleaf Ave. (9th St. to 4th St.)
- Maple Ave. (4th St. to R&R Tracks)
- Washington Ave. (8th St. to Sheridan Rd.)
- Wilshire Dr. (Cul-de-sac to Wilshire Dr. E.)
- Wilshire Dr. E. (Wilshire Dr. W. to Glenview Rd.)
- Wilshire Dr. W. (Wilshire Dr. E. to Glenview Rd.)

STREETS (Base Bid - Stage 2[^]):

- Greenwood Ave. (Dartmouth St. to Hunter Rd.)
- Kenilworth Ave. (Locust Rd. to Princeton Pl.)
- Prairie Ave. (15th St. to Wilmette Ave.)
- Princeton Pl. (End of Pave to Greenwood Ave.)
- Sprucewood Dr. (Cul-de-sac to Sprucewood Rd.)

STREETS (Alternates):

- Washington Ave. (Sheridan Rd. to Michigan Ave., Stage 1)
- Sprucewood Ln. (Cul-de-sac to Illinois Rd., Stage 2)

PATCHING*:

- Green Bay Rd. (Isabella St. to Ashland Ave.)
- Lake Ave. (Green Bay Rd. to Sheridan Rd.)
- Park Ave. (Gregory Ave. to Wilmette Ave.)
- Thornwood Ave. (Illinois Rd. to Dartmouth St.)
- Wilmette Ave. (Ridge Rd. to 17th St.)

* = Pavement patching is tentative and subject to available funds. The limits of patching repairs, if any, will be marked out by the Engineer at some or all of the locations identified above during street construction. Patching work shall be completed on or before September 25, 2020.

LEGEND:

- PATCHING* ○
- STREETS —
- VILLAGE LIMIT —

[^] = Stage 1 construction shall occur from April 27 to June 19, 2020; Stage 2 construction shall occur from June 22 to August 21, 2020; all punch list work must be completed by September 25, 2020.

Road Program	2020	\$ TBD	Dedicated/MFT
Streets, Sidewalks, and Alleys	2021	\$ TBD	
	2022	\$ TBD	
	2023	\$ TBD	
	2024	\$ TBD	
X	Critical		
-	Recommended		
-	Contingent on Funding		

Original Purchase Date & Cost

Unknown

Funding History

2019	\$705,657
2018	\$1,460,993
2017	\$2,096,276
2016	\$1,210,511
2015	\$1,164,000
2014	\$ 848,000
2013	\$1,370,000
2012	\$1,002,000



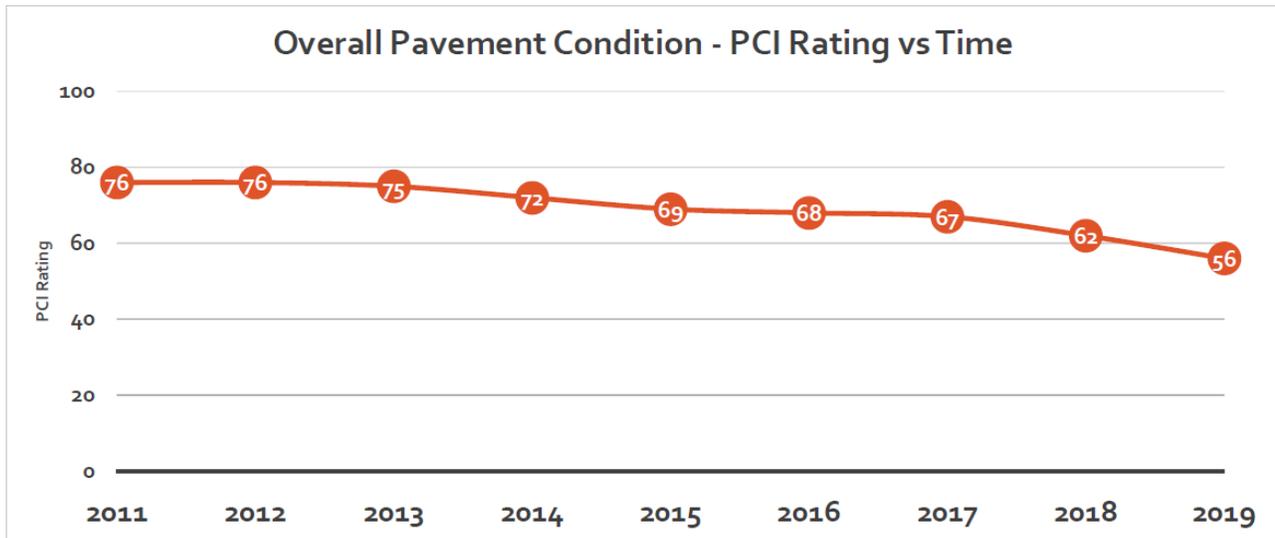
Since 2014, the Village Board has worked to increase annual funding of the road program. With the passage of the .75% increase in Home Rule Sales Tax in 2014, approximately \$300,000 of the proceeds was to the road program.

As part of the FY 2017 Budget, the Village Board committed to an annual \$2 million Road Program and increased the property tax rate by 0.90%, as well as the local gasoline tax by \$0.03 for street improvements. In 2019, the Engineering Division surveyed all non-brick streets in the Village. These ratings are calculated from data obtained during routine in-house field inspections. The table below, developed by the Department, displays the various pavement surface conditions with their corresponding PCI ratings:

Surface Condition	PCI Rating
Excellent	100 - 86
Good	85-71
Fair	70-56
Poor	55-41
Very Poor	40-26
Serious	25-0

The 2019 condition survey found that the condition of the infrastructure has degraded faster than anticipated. The current overall PCI rating is 56, indicating that the average pavement conditions are “fair” to “poor”. This assessment would indicate that the program, as currently funded, is not adequately maintaining the Village’s roadway assets.

State of the Roads in 2019



Given the current condition of the Village’s roadway system, the Village Board is holding a series of public meetings to consider how to improve the condition of the roads. Scenarios under consideration include but are not limited to the following:

Annual Funding Levels*	Average PCI After		
	5 Years	10 Years	10 Years w/ \$1.75M of Retired Debt^
\$3.5 Million (Add. \$1.65M annual funding)	64 (FAIR-MID)	72 (GOOD-LOW)	79 (GOOD-MID)
\$2.75 Million (Add. \$900k annual funding)	60 (FAIR-LOW)	62 (FAIR-MID)	69 (FAIR-HIGH)
\$2.3 Million (Add. \$450k annual funding)	58 (FAIR-LOW)	57 (FAIR-LOW)	63 (FAIR-MID)
\$2.0 Million (Add. \$250k annual funding)	57 (FAIR-LOW)	54 (POOR-HIGH)	60 (FAIR-LOW)

* = Annual funding levels are based on 2019 construction costs; values above do not account for general inflation (+/- 3%), engineering costs (+/- 5%), local share for federal projects (recommend separate in future), other maintenance programs for pavement (separate), and maintenance on brick streets (separate).
 ^ = Annual funding level value + \$1.75M in 2027 and 2028 only.

Project Description & Justification

The purpose of this program is to rehabilitate streets that are owned and maintained by the Village. The Road Program budget funds a variety of construction projects and services, including street resurfacing and reconstruction, surveying, materials testing, and other necessary engineering studies.

Background

The Village currently maintains approximately 64 miles of non-brick public roadways, made up of the following surface types:

Surface Type	Total Miles
Asphalt Cement (AC)	> 47 miles
Asphalt Over Brick (ABR)	> 5 miles
Asphalt Over Concrete (APC)	7 miles
Concrete (PCC)	< 5 miles

Many of the Village's roads were built in the post-World War II development boom. From 1998 to 2008, the Village conducted an accelerated street resurfacing program each year to improve the overall average pavement condition to "good". At the end of the accelerated program in 2008, the Engineering Division recommended reducing the annual funding allocation from \$3.1 million to \$2 million, which was intended to maintain this condition level.

Since 2012, the annual expenditure on street resurfacing has averaged \$1.2 million per year. Part of this funding was allocated to federal projects for the Village's required local contribution (typically 30% of the total construction costs), as well as engineering services necessary for federally-funded street reconstruction projects. This reallocation of funds reduced the number of streets that could be rehabilitated as part of the Road Program. As a result, the overall pavement condition of Village-owned streets has dropped from "good" to "fair/poor". If this trend continues, the overall pavement condition is expected to reach "poor" status within the next five years.

To abate this, staff will focus future grant requests on large-scale resurfacing projects, instead of reconstruction projects like Central Avenue and Locust Road.

Pavement Rehabilitation Strategy

The goal of this program is to rehabilitate streets with the worst pavement surfaces first, as well as to utilize outside funding sources as they become available. In 2013, the Engineering Division began using the pavement evaluation software PAVER™ to help prioritize street rehabilitation needs. This software assigns a numeric value to each street, known as a PCI (pavement condition index) rating, which represents the current condition of the pavement surface.

The Department will conduct full roadway inventory inspections every three years, with more frequent evaluations for streets slated for rehabilitation within three to five years. This process will ensure that the street with the worst pavement conditions are rehabilitated first. The scope of work for the street resurfacing projects will include alternate bid options for area patching and additional blocks in order to maximize the program budget.

Policy for Brick Streets Overlaid with Asphalt

In 2002, the Village adopted a policy on rehabilitating brick streets that have been overlaid with asphalt. If the following requirements are met, the project scope of work would include removing the existing asphalt surface and reconstructing the street in brick, one block at a time:

- The street must contain original clay fired bricks.
- The street segment must be included in an annual rehabilitation program.
- More than 65% of the residents must be in favor of the brick street surface.
- A minimum of a contiguous three block segment must endorse the brick surface.
- The renovation plan be completed in shorter segments so the Road Program budget is not dominated by the rehabilitation of the brick street.

This policy was endorsed by the Municipal Services Committee in 2012, 2015, 2016, and 2019. The 700 block of Forest Avenue is currently proposed for brick rehabilitation in 2020.

Project Update

The Village Board is in the process of reviewing funding for this program.

Project Alternative

The alternative to pavement rehabilitation is patching on an emergency basis. While patching will slow down the progression of potholes, it creates joints in the pavement that will eventually result in further deterioration. The second alternative is not to perform any roadway maintenance, which will result in total pavement failure. Once the roadway base is impacted from lack of maintenance, the road has to be reconstructed typically at three to four times the cost of resurfacing.

The Village Board approved a Special Service Areas (SSA) policy in 2016 which allows residents to petition for their street rehabilitation to be accelerated at a shared cost.

Operating Budget Impact

Is this purchase *routine* X or *non-routine*?

ROUTINE	
Department Budget	General Fund Capital
Account Number Description	Road Program
Account Number	11202035—80100

VILLAGE OF WILMETTE
2020 ROAD PROGRAM (#20023)
SECTION 20-00207-00-PV
BID TABULATION - BASE BID
DATE: APRIL 2, 2020

BASE BID					ENGINEER'S ESTIMATE OF COST		J.A. JOHNSON PAVING CO.		PETER BAKER & SON CO.	
NO.	ITEM NO.	ITEMS	UNIT	QUANTITY	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
1	20100210	TREE REMOV OVER 15	UNIT	29	\$50.00	\$ 1,450.00	\$ 34.00	\$ 986.00	\$ 110.00	\$ 3,190.00
2		TEMPORARY FENCE	EACH	505	\$100.00	\$ 50,500.00	\$ 45.00	\$ 22,725.00	\$ 100.00	\$ 50,500.00
3	20101100	TREE TRUNK PROTECTION	EACH	120	\$85.00	\$ 10,200.00	\$ 85.00	\$ 10,200.00	\$ 150.00	\$ 18,000.00
4		TREE ROOT PRUNING	EACH	505	\$105.00	\$ 53,025.00	\$ 30.00	\$ 15,150.00	\$ 90.00	\$ 45,450.00
5		TREE CANOPY PRUN 1-10	EACH	56	\$90.00	\$ 5,040.00	\$ 75.00	\$ 4,200.00	\$ 46.00	\$ 2,576.00
6		REM & DISP UNS MATL	CU YD	434	\$65.00	\$ 28,210.00	\$ 10.00	\$ 4,340.00	\$ 50.00	\$ 21,700.00
7		TRENCH BACKFILL	CU YD	329	\$44.00	\$ 14,476.00	\$ 15.00	\$ 4,935.00	\$ 1.00	\$ 329.00
8		TOPSOIL F & P VAR DP	CU YD	170	\$37.00	\$ 6,290.00	\$ 10.00	\$ 1,700.00	\$ 24.50	\$ 4,165.00
9		SEEDING, SPECIAL	SQ YD	1,796	\$8.00	\$ 14,368.00	\$ 5.00	\$ 8,980.00	\$ 5.00	\$ 8,980.00
10		SODDING, SPECIAL	SQ YD	3,727	\$13.00	\$ 48,451.00	\$ 13.00	\$ 48,451.00	\$ 14.85	\$ 55,345.95
11	28000510	INLET FILTERS	EACH	157	\$100.00	\$ 15,700.00	\$ 125.00	\$ 19,625.00	\$ 210.00	\$ 32,970.00
12		AGG SUBGRADE IMPROVE	CU YD	184	\$55.00	\$ 10,120.00	\$ 10.00	\$ 1,840.00	\$ 100.00	\$ 18,400.00
13		AGG BASE CSE B	CU YD	367	\$60.00	\$ 22,020.00	\$ 10.00	\$ 3,670.00	\$ 80.00	\$ 29,360.00
14	35800100	PREPARATION OF BASE	SQ YD	333	\$2.50	\$ 832.50	\$ 1.50	\$ 499.50	\$ 6.00	\$ 1,998.00
15	40600275	BT MATLS PR CT	POUND	5,543	\$0.50	\$ 2,771.50	\$ 0.01	\$ 55.43	\$ 0.01	\$ 55.43
16	40600290	BIT MATLS TACK CT	POUND	27,092	\$0.50	\$ 13,546.00	\$ 0.01	\$ 270.92	\$ 0.01	\$ 270.92
17	40600982	HMA SURF REM BUTT JT	SQ YD	333	\$10.00	\$ 3,330.00	\$ 1.00	\$ 333.00	\$ 5.00	\$ 1,665.00
18	40602978	HMA BC IL-9.5 N50 1.5	TON	2,298	\$82.00	\$ 188,436.00	\$ 83.00	\$ 190,734.00	\$ 87.00	\$ 199,926.00
19	40603080	HMA BC IL-19.0 N50 3.0	TON	349	\$75.00	\$ 26,175.00	\$ 80.00	\$ 27,920.00	\$ 87.00	\$ 30,363.00
20	40604060	HMA SC IL-9.5 D N50 1.5	TON	2,298	\$92.50	\$ 212,565.00	\$ 85.00	\$ 195,330.00	\$ 87.00	\$ 199,926.00
21	40604060	HMA SC IL-9.5 D N50 2.0	TON	661	\$98.00	\$ 64,778.00	\$ 85.00	\$ 56,185.00	\$ 87.00	\$ 57,507.00
22	40800050	INCIDENTAL HMA SURF	TON	107	\$150.00	\$ 16,050.00	\$ 51.00	\$ 5,457.00	\$ 100.00	\$ 10,700.00
23	42400200	PC CONC SIDEWALK 5	SQ FT	40,149	\$6.25	\$ 250,931.25	\$ 6.50	\$ 260,968.50	\$ 5.75	\$ 230,856.75
24	42400300	PC CONC SIDEWALK 6	SQ FT	10,038	\$7.25	\$ 72,775.50	\$ 7.25	\$ 72,775.50	\$ 5.95	\$ 59,726.10
25		DETECTABLE WARNINGS	SQ FT	740	\$36.00	\$ 26,640.00	\$ 35.00	\$ 25,900.00	\$ 30.00	\$ 22,200.00
26	44000100	PAVEMENT REM	SQ YD	2,076	\$19.50	\$ 40,482.00	\$ 10.00	\$ 20,760.00	\$ 13.00	\$ 26,988.00
27		HMA SURF REM 0.75	SQ YD	3,824	\$3.00	\$ 11,472.00	\$ 2.05	\$ 7,839.20	\$ 2.20	\$ 8,412.80
28		HMA SURF REM 2.75	SQ YD	27,347	\$4.00	\$ 109,388.00	\$ 4.50	\$ 123,061.50	\$ 5.15	\$ 140,837.05
29		COMB CC&G REM & REPL	FOOT	10,796	\$27.00	\$ 291,492.00	\$ 30.50	\$ 329,278.00	\$ 29.00	\$ 313,084.00
30	44000600	SIDEWALK REM	SQ FT	50,187	\$3.00	\$ 150,561.00	\$ 1.10	\$ 55,205.70	\$ 1.20	\$ 60,224.40
31	44200934	CL B PATCH T2 8	SQ YD	10	\$99.00	\$ 990.00	\$ 80.00	\$ 800.00	\$ 150.00	\$ 1,500.00
32	44200942	CL B PATCH T3 8	SQ YD	20	\$93.00	\$ 1,860.00	\$ 70.00	\$ 1,400.00	\$ 125.00	\$ 2,500.00
33	44200944	CL B PATCH T4 8	SQ YD	123	\$86.00	\$ 10,578.00	\$ 70.00	\$ 8,610.00	\$ 100.00	\$ 12,300.00
34	44201672	CL D PATCH T2 2	SQ YD	59	\$40.00	\$ 2,360.00	\$ 45.00	\$ 2,655.00	\$ 65.00	\$ 3,835.00
35	44201674	CL D PATCH T3 2	SQ YD	77	\$35.00	\$ 2,695.00	\$ 32.50	\$ 2,502.50	\$ 42.00	\$ 3,234.00
36	44201676	CL D PATCH T4 2	SQ YD	349	\$30.00	\$ 10,470.00	\$ 27.50	\$ 9,597.50	\$ 33.00	\$ 11,517.00
37	44201717	CL D PATCH T2 6	SQ YD	28	\$50.00	\$ 1,400.00	\$ 60.00	\$ 1,680.00	\$ 112.00	\$ 3,136.00
38	44201721	CL D PATCH T3 6	SQ YD	78	\$51.00	\$ 3,978.00	\$ 58.00	\$ 4,524.00	\$ 95.00	\$ 7,410.00
39	44201723	CL D PATCH T4 6	SQ YD	304	\$52.00	\$ 15,808.00	\$ 56.00	\$ 17,024.00	\$ 82.00	\$ 24,928.00
40		STORM SEW REM & REPL 10	FOOT	16	\$500.00	\$ 8,000.00	\$ 545.00	\$ 8,720.00	\$ 250.00	\$ 4,000.00
41		STORM SEW REM & REPL 12	FOOT	16	\$525.00	\$ 8,400.00	\$ 565.00	\$ 9,040.00	\$ 265.00	\$ 4,240.00
42		CB TA 4 DIA T1F	EACH	6	\$4,800.00	\$ 28,800.00	\$ 4,700.00	\$ 28,200.00	\$ 3,900.00	\$ 23,400.00
43		MAN TA 4 DIA T1F CL	EACH	1	\$5,000.00	\$ 5,000.00	\$ 6,950.00	\$ 6,950.00	\$ 4,700.00	\$ 4,700.00
44		INLETS TA T1F	EACH	3	\$1,900.00	\$ 5,700.00	\$ 1,750.00	\$ 5,250.00	\$ 2,800.00	\$ 8,400.00
45		FR & GRATES T3	EACH	10	\$650.00	\$ 6,500.00	\$ 425.00	\$ 4,250.00	\$ 925.00	\$ 9,250.00
46		FR & LIDS T1 OL	EACH	6	\$425.00	\$ 2,550.00	\$ 400.00	\$ 2,400.00	\$ 800.00	\$ 4,800.00
47		FR & LIDS T1 CL	EACH	14	\$425.00	\$ 5,950.00	\$ 400.00	\$ 5,600.00	\$ 800.00	\$ 11,200.00
48		COMB CC&G TM2.12	FOOT	164	\$27.00	\$ 4,428.00	\$ 35.00	\$ 5,740.00	\$ 35.00	\$ 5,740.00

VILLAGE OF WILMETTE
2020 ROAD PROGRAM (#20023)
SECTION 20-00207-00-PV
BID TABULATION - BASE BID
DATE: APRIL 2, 2020

BASE BID					ENGINEER'S ESTIMATE OF COST		J.A. JOHNSON PAVING CO.		PETER BAKER & SON CO.	
NO.	ITEM NO.	ITEMS	UNIT	QUANTITY	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
49		COMB CC&G TM MOD	FOOT	185	\$29.00	\$ 5,365.00	\$ 37.00	\$ 6,845.00	\$ 35.00	\$ 6,475.00
50	66900200	NON SPL WASTE DISPOSL	CU YD	337	\$100.00	\$ 33,700.00	\$ 10.00	\$ 3,370.00	\$ 55.00	\$ 18,535.00
51		MOBILIZATION	L SUM	1	\$100,000.00	\$ 100,000.00	\$ 125,000.00	\$ 125,000.00	\$ 153,600.00	\$ 153,600.00
52	70102620	TRAF CONT & PROT 701501	L SUM	1	\$50,000.00	\$ 50,000.00	\$ 89,923.00	\$ 89,923.00	\$ 19,050.00	\$ 19,050.00
53	70102635	TRAF CONT & PROT 701701	L SUM	1	\$150.00	\$ 150.00	\$ 1.00	\$ 1.00	\$ 500.00	\$ 500.00
54	70102640	TRAF CONT & PROT 701801	L SUM	1	\$2,500.00	\$ 2,500.00	\$ 1.00	\$ 1.00	\$ 500.00	\$ 500.00
55	78000100	THPL PVT MK LTR & SYM	SQ FT	165	\$7.50	\$ 1,237.50	\$ 4.25	\$ 701.25	\$ 6.00	\$ 990.00
56	78000200	THPL PVT MK LINE 4	FOOT	590	\$1.25	\$ 737.50	\$ 0.90	\$ 531.00	\$ 1.10	\$ 649.00
57	78000400	THPL PVT MK LINE 6	FOOT	2,557	\$1.50	\$ 3,835.50	\$ 1.21	\$ 3,093.97	\$ 1.50	\$ 3,835.50
58	78000600	THPL PVT MK LINE 12	FOOT	994	\$2.50	\$ 2,485.00	\$ 2.41	\$ 2,395.54	\$ 3.00	\$ 2,982.00
59	78000650	THPL PVT MK LINE 24	FOOT	671	\$5.00	\$ 3,355.00	\$ 4.25	\$ 2,851.75	\$ 6.00	\$ 4,026.00
60		CONSTRUCTION LAYOUT	L SUM	1	\$8,000.00	\$ 8,000.00	\$ 7,500.00	\$ 7,500.00	\$ 14,000.00	\$ 14,000.00
61		DRAINAGE STR RECONST	EACH	3	\$1,500.00	\$ 4,500.00	\$ 1,200.00	\$ 3,600.00	\$ 2,800.00	\$ 8,400.00
62		DRAINAGE STR REMOVED	EACH	10	\$300.00	\$ 3,000.00	\$ 200.00	\$ 2,000.00	\$ 1,500.00	\$ 15,000.00
63		RR PROT LIABILITY INS (CTA)	L SUM	1	\$3,500.00	\$ 3,500.00	\$ 3,000.00	\$ 3,000.00	\$ 5,000.00	\$ 5,000.00
64		RR PROT LIABILITY INS (UP)	L SUM	1	\$3,500.00	\$ 3,500.00	\$ 9,000.00	\$ 9,000.00	\$ 5,000.00	\$ 5,000.00
65		CLEARING & GRUBBING	SQ YD	60	\$60.00	\$ 3,600.00	\$ 20.00	\$ 1,200.00	\$ 20.00	\$ 1,200.00
66		SEWER SERVICE R&R	EACH	8	\$1,900.00	\$ 15,200.00	\$ 2,500.00	\$ 20,000.00	\$ 1,500.00	\$ 12,000.00
67		STRUCTURE ADJ	EACH	71	\$350.00	\$ 24,850.00	\$ 375.00	\$ 26,625.00	\$ 460.00	\$ 32,660.00
68		STRUCTURE ADJ SPL	EACH	95	\$500.00	\$ 47,500.00	\$ 650.00	\$ 61,750.00	\$ 885.00	\$ 84,075.00
69		BYPASS PUMPING SPL	L SUM	1	\$3,000.00	\$ 3,000.00	\$ 5,650.00	\$ 5,650.00	\$ 5,500.00	\$ 5,500.00
70		BRICK PAVER REM & REP	SQ FT	1,375	\$14.00	\$ 19,250.00	\$ 13.00	\$ 17,875.00	\$ 15.00	\$ 20,625.00
71		WOOD FENCE REMOVAL	FT	180	\$10.00	\$ 1,800.00	\$ 15.00	\$ 2,700.00	\$ 15.00	\$ 2,700.00
72		HMA SURF REM VAR DP	SQ YD	936	\$7.00	\$ 6,552.00	\$ 2.00	\$ 1,872.00	\$ 7.00	\$ 6,552.00
73		BRICK DRWY REM & REPL	SQ FT	1,200	\$30.00	\$ 36,000.00	\$ 13.00	\$ 15,600.00	\$ 15.00	\$ 18,000.00
74		PCC DRIVE REM & REPL 6"	SQ YD	570	\$65.00	\$ 37,050.00	\$ 68.00	\$ 38,760.00	\$ 68.00	\$ 38,760.00
75		PCC DRIVE REM & REPL 8"	SQ YD	94	\$80.00	\$ 7,520.00	\$ 72.00	\$ 6,768.00	\$ 72.00	\$ 6,768.00
76		HMA DRIVE REM & REP 3"	SQ YD	516	\$45.00	\$ 23,220.00	\$ 45.00	\$ 23,220.00	\$ 65.00	\$ 33,540.00
77		CONCRETE RIBBON	FOOT	192	\$40.00	\$ 7,680.00	\$ 65.00	\$ 12,480.00	\$ 35.00	\$ 6,720.00
78		COMB SEW REM & REP 12	FOOT	40	\$525.00	\$ 21,000.00	\$ 750.00	\$ 30,000.00	\$ 995.00	\$ 39,800.00
79		SPRINKLER SYSTEM HEAD	EACH	72	\$62.00	\$ 4,464.00	\$ 1.00	\$ 72.00	\$ 100.00	\$ 7,200.00
80		SPRINKLET SYSTEM LINE	FOOT	720	\$12.00	\$ 8,640.00	\$ 1.00	\$ 720.00	\$ 25.00	\$ 18,000.00
81		BRICK PAVT PATCH	SQ FT	384	\$25.00	\$ 9,600.00	\$ 20.00	\$ 7,680.00	\$ 16.50	\$ 6,336.00
BASE BID TOTALS:					\$ 2,390,334.25		\$ 2,177,103.76		\$ 2,400,774.90	
DIFFERENCE BETWEEN ENGINEER'S E.O.C.						0.00%		-8.92%		0.44%

Notes:

* = CORRECTION: The total "Based Bid" value on the bid sheet submitted by J.A. Johnson, \$2,097,700.00, is incorrect. The actual summation is \$2,177,103.76.

VILLAGE OF WILMETTE
2020 ROAD PROGRAM (#20023)
SECTION 20-00207-00-PV
BID TABULATION - ALTERNATE 1
DATE: APRIL 2, 2020

ALTERNATE 1 BID					ENGINEER'S ESTIMATE OF COST		J.A. JOHNSON PAVING CO.		PETER BAKER & SON CO.	
NO.	ITEM NO.	ITEMS	UNIT	QUANTITY	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
2		TEMPORARY FENCE	EACH	16	\$100.00	\$ 1,600.00	\$ 45.00	\$ 720.00	\$ 100.00	\$ 1,600.00
3	20101100	TREE TRUNK PROTECTION	EACH	4	\$85.00	\$ 340.00	\$ 85.00	\$ 340.00	\$ 150.00	\$ 600.00
4		TREE ROOT PRUNING	EACH	16	\$105.00	\$ 1,680.00	\$ 30.00	\$ 480.00	\$ 90.00	\$ 1,440.00
5		TREE CANOPY PRUN 1-10	EACH	4	\$90.00	\$ 360.00	\$ 75.00	\$ 300.00	\$ 46.00	\$ 184.00
6		REM & DISP UNS MATL	CU YD	7	\$65.00	\$ 455.00	\$ 10.00	\$ 70.00	\$ 50.00	\$ 350.00
7		TRENCH BACKFILL	CU YD	7	\$44.00	\$ 308.00	\$ 15.00	\$ 105.00	\$ 1.00	\$ 7.00
8		TOPSOIL F & P VAR DP	CU YD	7	\$37.00	\$ 259.00	\$ 10.00	\$ 70.00	\$ 24.50	\$ 171.50
9		SEEDING, SPECIAL	SQ YD	78	\$8.00	\$ 624.00	\$ 5.00	\$ 390.00	\$ 5.00	\$ 390.00
10		SODDING, SPECIAL	SQ YD	155	\$13.00	\$ 2,015.00	\$ 13.00	\$ 2,015.00	\$ 14.85	\$ 2,301.75
11	28000510	INLET FILTERS	EACH	6	\$100.00	\$ 600.00	\$ 125.00	\$ 750.00	\$ 210.00	\$ 1,260.00
12		AGG SUBGRADE IMPROVE	CU YD	5	\$55.00	\$ 275.00	\$ 10.00	\$ 50.00	\$ 100.00	\$ 500.00
13		AGG BASE CSE B	CU YD	9	\$60.00	\$ 540.00	\$ 10.00	\$ 90.00	\$ 80.00	\$ 720.00
14	35800100	PREPARATION OF BASE	SQ YD	8	\$2.50	\$ 20.00	\$ 1.50	\$ 12.00	\$ 30.00	\$ 240.00
15	40600275	BT MATLS PR CT	POUND	1,783	\$0.50	\$ 891.50	\$ 0.01	\$ 17.83	\$ 0.01	\$ 17.83
16	40600290	BIT MATLS TACK CT	POUND	357	\$0.50	\$ 178.50	\$ 0.01	\$ 3.57	\$ 0.01	\$ 3.57
17	40600982	HMA SURF REM BUTT JT	SQ YD	8	\$10.00	\$ 80.00	\$ 1.00	\$ 8.00	\$ 30.00	\$ 240.00
19	40603080	HMA BC IL-19.0 N50 3.0	TON	134	\$75.00	\$ 10,050.00	\$ 100.00	\$ 13,400.00	\$ 115.00	\$ 15,410.00
21	40604060	HMA SC IL-9.5 D N50 2.0	TON	89	\$98.00	\$ 8,722.00	\$ 100.00	\$ 8,900.00	\$ 115.00	\$ 10,235.00
22	40800050	INCIDENTAL HMA SURF	TON	2	\$150.00	\$ 300.00	\$ 51.00	\$ 102.00	\$ 150.00	\$ 300.00
23	42400200	PC CONC SIDEWALK 5	SQ FT	1,360	\$6.25	\$ 8,500.00	\$ 6.50	\$ 8,840.00	\$ 5.75	\$ 7,820.00
24	42400300	PC CONC SIDEWALK 6	SQ FT	340	\$7.25	\$ 2,465.00	\$ 7.25	\$ 2,465.00	\$ 5.95	\$ 2,023.00
26	44000100	PAVEMENT REM	SQ YD	793	\$19.50	\$ 15,463.50	\$ 13.00	\$ 10,309.00	\$ 13.75	\$ 10,903.75
29		COMB CC&G REM & REPL	FOOT	680	\$27.00	\$ 18,360.00	\$ 30.50	\$ 20,740.00	\$ 29.00	\$ 19,720.00
30	44000600	SIDEWALK REM	SQ FT	1,700	\$3.00	\$ 5,100.00	\$ 1.10	\$ 1,870.00	\$ 1.20	\$ 2,040.00
35	44201674	CL D PATCH T3 2	SQ YD	15	\$35.00	\$ 525.00	\$ 32.50	\$ 487.50	\$ 42.00	\$ 630.00
39	44201721	CL D PATCH T3 6	SQ YD	15	\$51.00	\$ 765.00	\$ 58.00	\$ 870.00	\$ 95.00	\$ 1,425.00
57	78000400	THPL PVT MK LINE 6	FOOT	40	\$1.50	\$ 60.00	\$ 1.21	\$ 48.40	\$ 1.50	\$ 60.00
58	78000650	THPL PVT MK LINE 24	FOOT	10	\$5.00	\$ 50.00	\$ 4.25	\$ 42.50	\$ 6.00	\$ 60.00
67		STRUCTURE ADJ	EACH	2	\$350.00	\$ 700.00	\$ 375.00	\$ 750.00	\$ 460.00	\$ 920.00
70		BRICK PAVER REM & REP	SQ FT	25	\$14.00	\$ 350.00	\$ 13.00	\$ 325.00	\$ 15.00	\$ 375.00
72		HMA SURF REM VAR DP	SQ YD	24	\$7.00	\$ 168.00	\$ 2.00	\$ 48.00	\$ 30.00	\$ 720.00
74		PCC DRIVE REM & REPL 6"	SQ YD	36	\$65.00	\$ 2,340.00	\$ 68.00	\$ 2,448.00	\$ 68.00	\$ 2,448.00
77		CONCRETE RIBBON	FOOT	24	\$40.00	\$ 960.00	\$ 65.00	\$ 1,560.00	\$ 35.00	\$ 840.00
79		SPRINKLER SYSTEM HEAD	EACH	6	\$62.00	\$ 372.00	\$ 1.00	\$ 6.00	\$ 100.00	\$ 600.00
80		SPRINKLET SYSTEM LINE	FOOT	60	\$12.00	\$ 720.00	\$ 1.00	\$ 60.00	\$ 25.00	\$ 1,500.00
81		BRICK PAVT PATCH	SQ FT	48	\$25.00	\$ 1,200.00	\$ 20.00	\$ 960.00	\$ 16.50	\$ 792.00
ALTERNATE 1 TOTALS:						\$ 87,396.50		\$ 79,652.80		\$ 88,847.40
DIFFERENCE BETWEEN ENGINEER'S E.O.C.						0.00%		-8.86%		1.66%

VILLAGE OF WILMETTE
2020 ROAD PROGRAM (#20023)
SECTION 20-00207-00-PV
BID TABULATION - ALTERNATE 2
DATE: APRIL 2, 2020

ALTERNATE 2 BID					ENGINEER'S ESTIMATE OF COST		J.A. JOHNSON PAVING CO.		PETER BAKER & SON CO.	
NO.	ITEM NO.	ITEMS	UNIT	QUANTITY	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
2		TEMPORARY FENCE	EACH	8	\$100.00	\$ 800.00	\$ 45.00	\$ 360.00	\$ 100.00	\$ 800.00
3	20101100	TREE TRUNK PROTECTION	EACH	2	\$85.00	\$ 170.00	\$ 85.00	\$ 170.00	\$ 150.00	\$ 300.00
4		TREE ROOT PRUNING	EACH	8	\$105.00	\$ 840.00	\$ 30.00	\$ 240.00	\$ 90.00	\$ 720.00
5		TREE CANOPY PRUN 1-10	EACH	2	\$90.00	\$ 180.00	\$ 75.00	\$ 150.00	\$ 46.00	\$ 92.00
6		REM & DISP UNS MATL	CU YD	15	\$65.00	\$ 975.00	\$ 10.00	\$ 150.00	\$ 50.00	\$ 750.00
7		TRENCH BACKFILL	CU YD	12	\$44.00	\$ 528.00	\$ 15.00	\$ 180.00	\$ 1.00	\$ 12.00
8		TOPSOIL F & P VAR DP	CU YD	6	\$37.00	\$ 222.00	\$ 10.00	\$ 60.00	\$ 24.50	\$ 147.00
9		SEEDING, SPECIAL	SQ YD	69	\$8.00	\$ 552.00	\$ 5.00	\$ 345.00	\$ 5.00	\$ 345.00
10		SODDING, SPECIAL	SQ YD	138	\$13.00	\$ 1,794.00	\$ 13.00	\$ 1,794.00	\$ 14.85	\$ 2,049.30
11	28000510	INLET FILTERS	EACH	3	\$100.00	\$ 300.00	\$ 125.00	\$ 375.00	\$ 210.00	\$ 630.00
12		AGG SUBGRADE IMPROVE	CU YD	10	\$55.00	\$ 550.00	\$ 10.00	\$ 100.00	\$ 100.00	\$ 1,000.00
13		AGG BASE CSE B	CU YD	20	\$60.00	\$ 1,200.00	\$ 10.00	\$ 200.00	\$ 80.00	\$ 1,600.00
14	35800100	PREPARATION OF BASE	SQ YD	18	\$2.50	\$ 45.00	\$ 1.50	\$ 27.00	\$ 30.00	\$ 540.00
16	40600290	BIT MATLS TACK CT	POUND	1,577	\$0.50	\$ 788.50	\$ 0.01	\$ 15.77	\$ 0.01	\$ 15.77
17	40600982	HMA SURF REM BUTT JT	SQ YD	18	\$10.00	\$ 180.00	\$ 1.00	\$ 18.00	\$ 30.00	\$ 540.00
18	40602978	HMA BC IL-9.5 N50 1.5	TON	148	\$82.00	\$ 12,136.00	\$ 105.00	\$ 15,540.00	\$ 110.00	\$ 16,280.00
20	40604060	HMA SC IL-9.5 D N50 1.5	TON	148	\$92.50	\$ 13,690.00	\$ 105.00	\$ 15,540.00	\$ 110.00	\$ 16,280.00
22	40800050	INCIDENTAL HMA SURF	TON	5	\$150.00	\$ 750.00	\$ 51.00	\$ 255.00	\$ 150.00	\$ 750.00
23	42400200	PC CONC SIDEWALK 5	SQ FT	1,318	\$6.25	\$ 8,237.50	\$ 6.50	\$ 8,567.00	\$ 5.75	\$ 7,578.50
24	42400300	PC CONC SIDEWALK 6	SQ FT	330	\$7.25	\$ 2,392.50	\$ 7.25	\$ 2,392.50	\$ 5.95	\$ 1,963.50
28		HMA SURF REM 2.75	SQ YD	1,752	\$4.00	\$ 7,008.00	\$ 6.50	\$ 11,388.00	\$ 6.75	\$ 11,826.00
29		COMB CC&G REM & REPL	FOOT	462	\$27.00	\$ 12,474.00	\$ 30.50	\$ 14,091.00	\$ 29.00	\$ 13,398.00
30	44000600	SIDEWALK REM	SQ FT	1,648	\$3.00	\$ 4,944.00	\$ 1.10	\$ 1,812.80	\$ 1.20	\$ 1,977.60
34	44201674	CL D PATCH T3 2	SQ YD	18	\$35.00	\$ 630.00	\$ 32.50	\$ 585.00	\$ 42.00	\$ 756.00
37	44201721	CL D PATCH T3 6	SQ YD	18	\$51.00	\$ 918.00	\$ 58.00	\$ 1,044.00	\$ 95.00	\$ 1,710.00
59	78000650	THPL PVT MK LINE 24	FOOT	12	\$5.00	\$ 60.00	\$ 4.25	\$ 51.00	\$ 6.00	\$ 72.00
67		STRUCTURE ADJ	EACH	1	\$350.00	\$ 350.00	\$ 375.00	\$ 375.00	\$ 460.00	\$ 460.00
68		STRUCTURE ADJ SPL	EACH	6	\$500.00	\$ 3,000.00	\$ 650.00	\$ 3,900.00	\$ 885.00	\$ 5,310.00
72		HMA SURF REM VAR DP	SQ YD	53	\$7.00	\$ 371.00	\$ 2.00	\$ 106.00	\$ 30.00	\$ 1,590.00
73		BRICK DRWY REM & REPL	SQ FT	160	\$30.00	\$ 4,800.00	\$ 13.00	\$ 2,080.00	\$ 15.00	\$ 2,400.00
74		PCC DRIVE REM & REPL 6"	SQ YD	18	\$65.00	\$ 1,170.00	\$ 68.00	\$ 1,224.00	\$ 68.00	\$ 1,224.00
76		HMA DRIVE REM & REP 3"	SQ YD	98	\$45.00	\$ 4,410.00	\$ 45.00	\$ 4,410.00	\$ 65.00	\$ 6,370.00
79		SPRINKLER SYSTEM HEAD	EACH	6	\$62.00	\$ 372.00	\$ 1.00	\$ 6.00	\$ 100.00	\$ 600.00
80		SPRINKLET SYSTEM LINE	FOOT	60	\$12.00	\$ 720.00	\$ 1.00	\$ 60.00	\$ 25.00	\$ 1,500.00
ALTERNATE 2 TOTALS:					\$ 87,557.50		\$ 87,612.07		\$ 101,586.67	
DIFFERENCE BETWEEN ENGINEER'S E.O.C.					0.00%		0.06%		16.02%	



Engineering & Public Works Department

SUBJECT: 2020 Alley and Brick Street Reconstruction Program

MEETING DATE: April 28, 2020

FROM: [Brigitte Ann Berger-Raish](#), P.E. Director of Engineering and Public Works
[Dan Manis](#), P.E., Village Engineer
[Jorge Cruz](#), P.E., Assistant Village Engineer
[Ryan Kearney](#), P.E., Project Manager

BUDGET IMPACT:	Contract Cost:	\$845,072
	Budget:	\$939,000
	Over/(Under) Budget	(\$93,928)

This item is of an immediate and critical nature to prevent further degradation of the Village’s infrastructure; the construction must be performed during warm weather months and approval will provide for the project to begin in May and completed by August 2020.

Recommended Motion

Move to approve a contract in an amount not-to-exceed \$845,072 with Schroeder & Schroeder, Inc., Skokie, IL, for the 2020 Alley and Brick Street Reconstruction Program.

Background

Alley Reconstruction Program

The purpose of the Alley Reconstruction Program is to rehabilitate alleys that are in very poor condition. The typical scope of work consists of removing the existing pavement and base and replacement with a new gravel base and 8-inch concrete pavement. The work also includes sewer repairs/installation as needed, driveway apron replacements, intermittent curb and sidewalk repairs, pavement patching and parkway restoration.

The chart below shows the number of alleys constructed per year since 2015.

Number of Alleys Constructed per Year				
2015*	2016	2017	2018	2019
5	4.5	4	4	5

* MWRD grant for 4 green alleys

The Alley Reconstruction Program is designed and managed by Engineering staff. The Village utilizes field inspections to prioritize alley rehabilitation needs. The program goal is to reconstruct four alleys per year. Wilmette has 225 alleys so four alleys represents nearly 2% of the alley system. In 2019, the Village Board determined that an optimized budget for the 2020 Road Program was necessary to help improve the overall pavement condition of Village-owned streets. In order to increase Road Program funding, only three alleys were included in Base Bid Option 1.

The following alleys were selected for the 2020 program:

Alley ID Number	Entrances	Between
212	7th St/6th St	Central Ave/Washington Ave
232	9th St/8th St	Greenleaf Ave/Linden Ave
613	17th St/16th St	Walnut Ave/Forest Ave
620 ¹ (half alley)	Alley/17th St	Forest Ave/Lake Ave

¹ This alley was only included in Base Bid Option 2; the other half the alley was reconstructed in 2016.

Brick Street Reconstruction Program

The purpose of the Brick Street Reconstruction Program is to rehabilitate an existing brick street block that was previously overlaid with asphalt and is rated in very poor condition. The typical scope of work consists of removing the asphalt surface, replacing the stone base, re-laying the existing bricks, replacing the concrete curb, intermittent sidewalk repairs, minor sewer repairs, and parkway restoration. The 700 block of Forest Avenue is scheduled for reconstruction in 2020.

Although this rehabilitation will be completed by this contract, the work is funded from the Road Program – Street Resurfacing account [11202035-425250]. Of the \$2.75 million Road Program for 2020, \$350,000 is committed to brick overlay. Please see the road program information which can be found in Agenda Item 6.41

Brick Street Maintenance Program

The Brick Street Maintenance Program consists of removing and re-laying areas of settled brick pavers at various locations throughout the Village. The purpose of this program is to improve street rideability and safety. The program addresses severe depressions in the brick streets on a “worst-first” basis. The recommended award value includes the full bid amount of nearly 4,400 square feet of brick pavement.

Utility Patching Program

The purpose of the Utility Patching Program is to repair areas that have been temporarily patched by the Engineering and Public Works Department crews after repairing sewer lines or water main breaks. Patching work for brick streets will be conducted by this project.

Discussion

The bid document for the 2020 Alley & Brick Street Reconstruction Program was advertised and published on the Village website on March 12, 2020. Bids were opened April 2, 2020. The project had six (6) qualified bidders. The bid results are summarized below:

Contractor	Base Bid Option 1	Base Bid Option 2
Schroeder & Schroeder, Inc.	\$ 791,444.00	\$ 845,071.50
A Lamp Concrete Contractors	\$ 892,794.00	\$ 977,067.00
Triggi Construction, Inc.	\$ 951,518.00	\$1,013,277.50 *
Landmark Contractors, Inc.	\$ 993,277.85	\$1,061,355.20
Alliance Contractors, Inc.	\$1,046,067.00	\$1,121,014.00
M & J Asphalt Paving Co., Inc.	\$1,419,487.97	\$1,534,412.56 *
Engineers Estimate	\$ 934,683.00	\$ 990,905.00

* As corrected

Schroeder & Schroeder, Inc. submitted the lowest qualified bid of \$845,071.50 (Base Bid Option 2). Schroeder & Schroeder has previous construction experience in Wilmette, serving as general contractor for the Curb and Sidewalk Programs since 2015 and the alley program in 2014, 2016, and 2018. These projects were completed to the satisfaction of Engineering staff. Based on their competitive bid and previous work experience, the Engineering and Public Works Department recommends awarding the 2020 Alley & Brick Street Reconstruction Program Base Bid Option 2, which includes an additional half alley, to Schroeder & Schroeder, Inc.

Schedule

The 2020 Alley and Brick Street Reconstruction Program is scheduled to begin in early-May and be completed by end-August 2020.

Budget Impact

The 2020 Alley and Brick Street Reconstruction Program is allocated to various accounts within the general, water, sewer and motor fuel tax funds. A component of the general fund dollars has dedicated revenues allocated towards brick street resurfacing associated with the annual road program. Work associated with this contract are a component of the below accounts and are within the FY 2020 budget.

Description	2020 Budget	Contract Amount	Account Number
Alley Maintenance Program	\$450,000	\$409,700	11202035-425200
Street Resurfacing (Dedicated Revenue)	\$350,000	\$339,272	11202035-425250
Brick Street Maintenance	\$110,000	\$67,100	11202035-425230
Utility Street Patching - Sewer	\$11,000	\$11,000	40807090-421000
Utility Street Patching - Water	\$18,000	\$18,000	41838090-421000
Total	\$939,000	\$845,072	

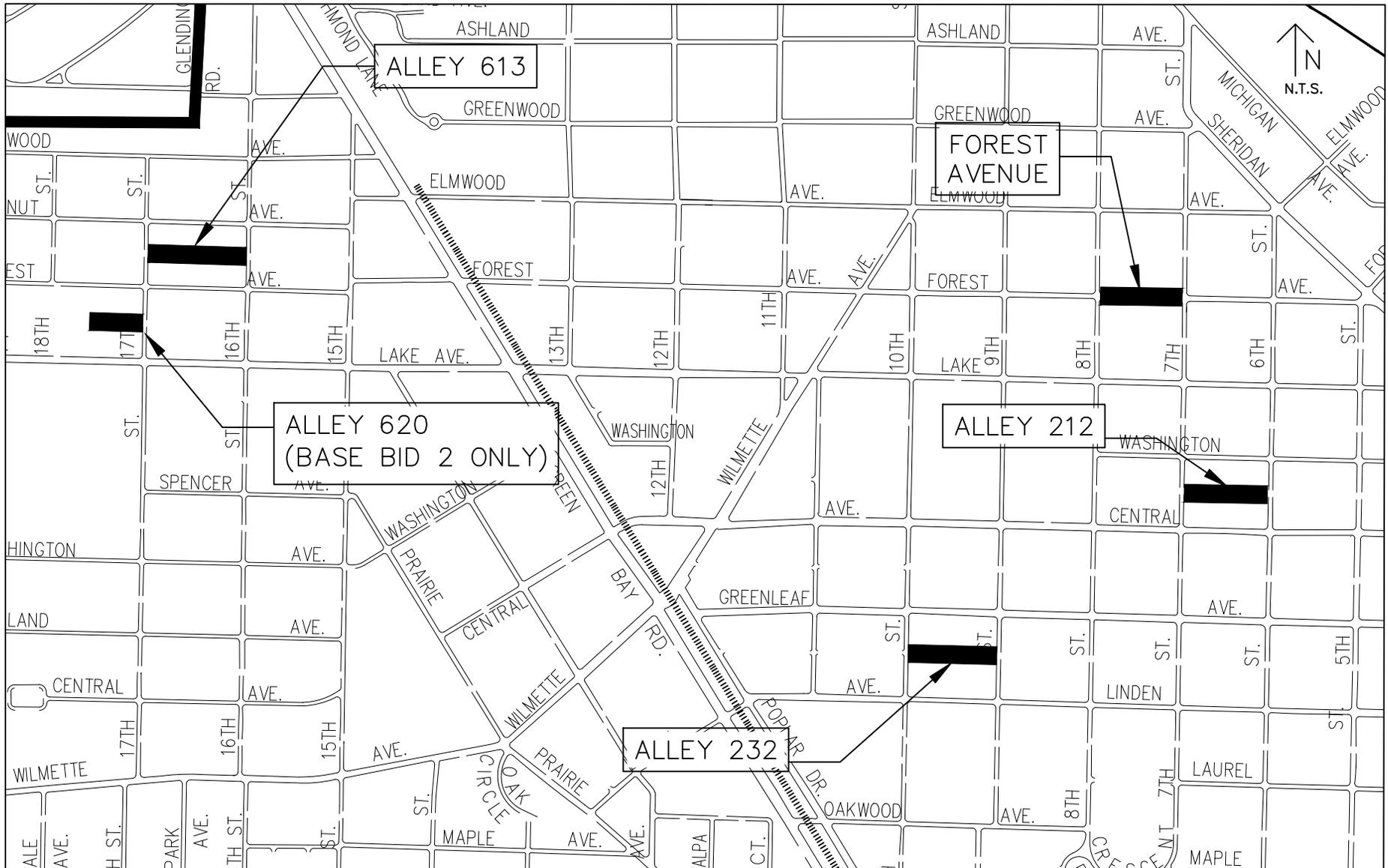
Note: An additional \$20,000 expense will be incurred later this year for the purchase of bricks.

COVID-19 Consideration: The contract award recommendation is for the entire bid amount; however, the Village reserves the right to reduce the amount of work in the awarded contract until early June. At that time, staff will prepare options for up to \$172,000 in contract value reductions for Village Board consideration. Options will include deferral of Alley 212 (full alley) at \$118,000 and/or Alley 620 (half alley) at \$54,000.

Documents Attached

1. Alley Map
2. CIP Sheet – Alley Program
3. CIP Sheet –Road Program
4. Bid Tabulation

2020 ALLEY AND BRICK STREET RECONSTRUCTION PROGRAM



NOTE: BRICK MAINTENANCE PATCHING AND UTILITY PATCHING AT VARIOUS LOCATIONS IN THE VILLAGE AND WILL BE MARKED OUT IN THE FIELD BY ENGINEERING STAFF DURING CONSTRUCTION

DESIGN: DPS
DATE: 4-21-2020
PAGE 1 OF 1
SCALE: NOT TO SCALE

Alley Reconstruction Program Streets, Sidewalks and Alleys	2020	\$550,000	Operating
	2021	\$567,000	
	2022	\$584,000	
	2023	\$602,000	
	2024	\$620,000	

- X Critical
- Recommended
- Contingent on Funding

Original Purchase Date & Cost
Unknown

Funding History

Year	Amount	Source
2019	\$552,100 ¹	Operating
2018	\$529,763	Operating
2017	\$587,670 ²	Operating
2016	\$515,000	Operating
2015	\$836,500 ³	Operating
2014	\$273,000	Operating
2013	\$900,000	Bond
2012	\$355,000	Operating



¹ Storm sewer was installed in 2 of the 5 alleys.

² Storm sewer was installed in 3 of the 4 alleys.

³ Includes \$130,000 from MWRD for green infrastructure improvements.

With the passage of the increased Home Rule Sales Tax in 2014, a portion of the proceeds was dedicated for street, sidewalk, and alley programs. As a result of the increased revenue, the Board allocated approximately \$515,000 annually with the goal of repairing all failed and poor alleys by 2022.

Project Description & Justification

The purpose of this program is to reconstruct alleys owned and maintained by the Village. The Village currently maintains 226 alleys, made up of the following surface types:

Surface Type	Total Alleys
Asphalt Cement (AC)	110
Concrete (PCC)	111
Green Alleys	4
Brick Alleys	1

The scope of work for this program consists of designing new alley pavement sections to extend the service life of the alley, minimize the impact to adjacent properties, and improve the drainage in the public Right-of-Way. All alleys are preferred to drain by overland flow. In cases where overland flow cannot not be achieved, however, the drainage designs will utilize storm sewers. The impact of adding storm sewer is significant in terms of cost, so this feature is used as a last resort.

Pavement Rehabilitation Strategy

This program rehabilitates alleys on a “worst-first” basis. Similar to the road program, each alley is inspected by the Engineering Division periodically and is assigned a pavement condition index (PCI) rating. These ratings corresponds to the following surface conditions:

Surface Condition	PCI Rating
Excellent	100 - 86
Good	85-71
Fair	70-56
Poor	55-41
Very Poor	40-26
Serious	25-0

The Department will conduct full alley inventory inspections every three years, in addition to more frequent inspections of alleys slated for rehabilitation within the next three to five years. This process will ensure that the alleys with the worst pavement conditions are rehabilitated first. Engineering will select three to four alleys per year for the reconstruction program. The scope of work for this program will include alternate bid options for area patching and additional alleys in order to maximize the program budget.

In 2018, the Engineering Division inspected the pavement surfaces of the entire alley inventory. The overall PCI rating was 74, indicating that the average pavement conditions are “good”. This assessment would indicate that the program is adequately managing the Village’s alley assets. At the current funding levels, all “serious” and “very poor” alleys will be completed by 2020. Below is the estimated funding to complete four alleys per year, depending on alley sizes.

Year	Construction¹	Engineering²	Total
2020	\$524,000	\$26,000	\$550,000
2021	\$540,000	\$27,000	\$567,000
2022	\$556,000	\$28,000	\$584,000
2023	\$573,000	\$29,000	\$602,000
2024	\$590,000	\$30,000	\$620,000

¹ Construction funding increases 3% annually to account for inflation.

² Engineering (land survey, environmental, geotechnical, and construction material testing services) is estimated at 5% (alleys require more construction material testing than roads)

Green Alleys

In 2015 the Village of Wilmette received a grant from the Metropolitan Water Reclamation District of Greater Chicago (MWRD) to build four green alleys. Upon review of the project details, cost estimate, and storm water storage benefits, MWRD determined that the project would reduce flooding and the

burden on the combined sewer system during rain events. A grant was awarded in the amount of \$130,000 to partially fund the installation of green alleys in Wilmette. The grant contribution of \$130,000 reflected the cost differential to incorporate green infrastructure improvements compared to the conventional concrete alley design.

The Municipal Services Committee (MSC) discussed the success of the 2015 program which has performed very well during rain events. Residents have reported the green alleys have significantly better drainage than the original asphalt or concrete alleys. The MSC recommended staff seek additional green infrastructure grant funds from MWRD, however staff is still evaluating the operational costs associated with properly maintaining green alleys to ensure they continue to perform optimally.

Project Update

The Engineering Division revised the CIP content and updated funding amounts for 2020-2024.

Project Alternative

The alternative is to temporarily patch the alleys with cold-mix asphalt, however this material needs to be replaced on a bi-annual or more frequent basis. A hot-mix asphalt or concrete patching program would provide another intermediate option to repair and extend the service life of the alley pavement. The asphalt patching should last about five to ten years on a stable base, whereas the concrete patching lifespan can be decades.

Operating Budget Impact

Is this purchase *routine* X or *non-routine*?

ROUTINE	
Department Budget	Engineering
Account Number Description	Alley Replacement Program
Account Number	11202035-425200

Brick Street Repairs	2020	\$110,000	Operating
Streets, Sidewalks and Alleys	2021	\$113,000	
	2022	\$116,000	
	2023	\$119,000	
	2024	\$123,000	

X Critical
 - Recommended
 - Contingent on Funding

Types of Maintenance



Original Purchase Date & Cost

Unknown

Funding History

2019	\$140,000	Operating
2018	\$136,000	Operating
2017	\$136,000	Operating
2016	\$136,000	Operating
2015	\$50,000	Dedicated revenues
2014	\$40,000	Dedicated revenues
2013	\$40,000	Dedicated revenues
2012	\$132,000	Dedicated revenues

Project Description & Justification

This is an annual maintenance program to repair and relay brick pavers that have settled in various locations throughout the Village. In addition, the areas where the edge of pavement has fallen below the gutter line will be repaired. This settlement creates trip hazards, drainage problems, and vehicle damage.

In 2020, Village staff will be conducting a condition evaluation of the entire brick street inventory to update patching and complete renovation schedules.

Project Update

The funding request for 2020 has been decreased from \$140,000 to \$110,000 and, \$123,000 has been added to 2024. Costs have been updated to reflect an annual 3% price index.

Project Alternative

The alternative is to defer maintenance that can lead to increased liability resulting from car damage caused by settled pavers.

Operating Budget Impact

Is this purchase *routine* X or *non-routine* _____?

ROUTINE	
Department Budget	Engineering
Account Number Description	Brick Street Repair
Account Number	11202035-425230

Village of Wilmette Bid No. 20030
2020 Alley Brick Reconstruction Bid Tab - Base Bid 1 and 2

				BASE BID 1+2 TOTAL Qnty	Contractors													
NO.	ITEM NO.	ITEMS	UNIT	QUANTITY	Enq. Estimate		Schroeder & Schroeder, Inc.		A Lamp Concrete Contractors		Triggi Construction, Inc.		Landmark Contractors, Inc.		Alliance Contractors, Inc.		M & J Asphalt Paving Co., Inc.	
					Unit Price	Cost	Unit Price	Cost	Unit Price	Cost	Unit Price	Cost	Unit Price	Cost	Unit Price	Cost	Unit Price	Cost
1	20100210	TREE REMOV OVER 15	EACH	1	\$ 2,500.00	\$ 2,500.00	\$ 2,250.00	\$ 2,250.00	\$ 3,480.00	\$ 3,480.00	\$ 1,500.00	\$ 1,500.00	\$ 2,900.00	\$ 2,900.00	\$ 2,900.00	\$ 2,900.00	\$ 3,386.16	\$ 3,386.16
2	20101000	TEMPORARY FENCE	FOOT	1900	\$ 5.00	\$ 9,500.00	\$ 5.00	\$ 9,500.00	\$ 1.00	\$ 1,900.00	\$ 5.00	\$ 9,500.00	\$ 9.60	\$ 18,240.00	\$ 5.00	\$ 9,500.00	\$ 7.01	\$ 13,319.00
3	20101100	TREE TRUNK PROTECTION	EACH	34	\$ 175.00	\$ 5,950.00	\$ 100.00	\$ 3,400.00	\$ 20.00	\$ 680.00	\$ 200.00	\$ 6,800.00	\$ 200.00	\$ 6,800.00	\$ 200.00	\$ 6,800.00	\$ 233.53	\$ 7,940.02
4	20101200	TREE ROOT PRUNING	EACH	28	\$ 150.00	\$ 4,200.00	\$ 100.00	\$ 2,800.00	\$ 20.00	\$ 560.00	\$ 125.00	\$ 3,500.00	\$ 90.00	\$ 2,520.00	\$ 90.00	\$ 2,520.00	\$ 105.08	\$ 2,942.24
5	20200100	EARTH EXCAVATION	CU YD	1059	\$ 47.00	\$ 49,773.00	\$ 35.00	\$ 37,065.00	\$ 46.50	\$ 49,243.50	\$ 50.00	\$ 52,950.00	\$ 77.10	\$ 81,648.90	\$ 30.00	\$ 31,770.00	\$ 37.83	\$ 40,061.97
6	20900110	POROUS GRAN BACKFILL	CU YD	46	\$ 40.00	\$ 1,840.00	\$ 32.00	\$ 1,472.00	\$ 50.00	\$ 2,300.00	\$ 50.00	\$ 2,300.00	\$ 57.75	\$ 2,656.50	\$ 60.00	\$ 2,760.00	\$ 52.17	\$ 2,399.82
7	21001000	GEOTECH FAB F/GR STAB	SQ YD	4278	\$ 1.50	\$ 6,417.00	\$ 1.00	\$ 4,278.00	\$ 2.00	\$ 8,556.00	\$ 1.00	\$ 4,278.00	\$ 1.70	\$ 7,272.60	\$ 1.00	\$ 4,278.00	\$ 1.95	\$ 8,342.10
8	21101600	TOPSOIL F & P VAR DP	CU YD	60	\$ 50.00	\$ 3,000.00	\$ 50.00	\$ 3,000.00	\$ 35.00	\$ 2,100.00	\$ 50.00	\$ 3,000.00	\$ 70.00	\$ 4,200.00	\$ 55.00	\$ 3,300.00	\$ 56.05	\$ 3,363.00
9		SEEDING, SPECIAL	SQ YD	182	\$ 7.00	\$ 1,274.00	\$ 2.00	\$ 364.00	\$ 5.00	\$ 910.00	\$ 15.00	\$ 2,730.00	\$ 12.00	\$ 2,184.00	\$ 31.50	\$ 5,733.00	\$ 3.50	\$ 637.00
10		SODDING, SPECIAL	SQ YD	1468	\$ 15.00	\$ 22,020.00	\$ 12.50	\$ 18,350.00	\$ 14.00	\$ 20,552.00	\$ 25.00	\$ 36,700.00	\$ 23.10	\$ 33,910.80	\$ 34.00	\$ 49,912.00	\$ 16.35	\$ 24,001.80
11	28000510	INLET FILTERS	EACH	15	\$ 100.00	\$ 1,500.00	\$ 150.00	\$ 2,250.00	\$ 10.00	\$ 150.00	\$ 150.00	\$ 2,250.00	\$ 270.00	\$ 4,050.00	\$ 25.00	\$ 375.00	\$ 175.15	\$ 2,627.25
12	30300001	AGG SUBGRADE IMPROVE	CU YD	140	\$ 33.00	\$ 4,620.00	\$ 36.00	\$ 5,040.00	\$ 45.00	\$ 6,300.00	\$ 50.00	\$ 7,000.00	\$ 54.50	\$ 7,630.00	\$ 60.00	\$ 8,400.00	\$ 68.90	\$ 9,646.00
13	35101500	AGG BASE CSE B	CU YD	997	\$ 43.00	\$ 42,871.00	\$ 36.00	\$ 35,892.00	\$ 25.00	\$ 24,925.00	\$ 75.00	\$ 74,775.00	\$ 60.40	\$ 60,218.80	\$ 53.00	\$ 52,841.00	\$ 126.41	\$ 126,030.77
14	42000300	PCC PVT 8	SQ YD	2611	\$ 70.00	\$ 182,770.00	\$ 65.00	\$ 169,715.00	\$ 70.00	\$ 182,770.00	\$ 60.00	\$ 156,660.00	\$ 60.00	\$ 156,660.00	\$ 69.00	\$ 180,159.00	\$ 162.86	\$ 425,227.46
15	42300200	PCC DRIVEWAY PAVT 6	SQ YD	665	\$ 50.00	\$ 33,250.00	\$ 54.00	\$ 35,910.00	\$ 66.50	\$ 44,222.50	\$ 55.00	\$ 36,575.00	\$ 73.75	\$ 49,043.75	\$ 66.00	\$ 43,890.00	\$ 86.18	\$ 57,309.70
16	42400200	PC CONC SIDEWALK 5	SQ FT	2406	\$ 6.00	\$ 14,436.00	\$ 6.00	\$ 14,436.00	\$ 6.50	\$ 15,639.00	\$ 6.50	\$ 15,639.00	\$ 7.40	\$ 17,804.40	\$ 6.50	\$ 15,639.00	\$ 10.74	\$ 25,840.44
17	42400300	PC CONC SIDEWALK 6	SQ FT	1036	\$ 7.00	\$ 7,252.00	\$ 6.50	\$ 6,734.00	\$ 7.00	\$ 7,252.00	\$ 7.50	\$ 7,770.00	\$ 8.30	\$ 8,598.80	\$ 7.25	\$ 7,511.00	\$ 11.40	\$ 11,810.40
18	42400800	DETECTABLE WARNINGS	SQ FT	120	\$ 31.00	\$ 3,720.00	\$ 37.00	\$ 4,440.00	\$ 35.00	\$ 4,200.00	\$ 35.00	\$ 4,200.00	\$ 26.75	\$ 3,210.00	\$ 15.00	\$ 1,800.00	\$ 37.31	\$ 4,477.20
19	44000100	PAVEMENT REM	SQ YD	2940	\$ 14.00	\$ 41,160.00	\$ 12.00	\$ 35,280.00	\$ 11.00	\$ 32,340.00	\$ 10.00	\$ 29,400.00	\$ 10.90	\$ 32,046.00	\$ 44.00	\$ 129,360.00	\$ 25.80	\$ 75,852.00
20	44000200	DRIVE PAVEMENT REM	SQ YD	692	\$ 14.00	\$ 9,688.00	\$ 6.00	\$ 4,152.00	\$ 10.00	\$ 6,920.00	\$ 15.00	\$ 10,380.00	\$ 18.55	\$ 12,836.60	\$ 20.00	\$ 13,840.00	\$ 27.13	\$ 18,773.96
21	44000500	COMB CURB GUTTER REM	FOOT	1879	\$ 6.00	\$ 11,274.00	\$ 2.00	\$ 3,758.00	\$ 4.00	\$ 7,516.00	\$ 8.00	\$ 15,032.00	\$ 12.25	\$ 23,017.75	\$ 20.00	\$ 37,580.00	\$ 11.03	\$ 20,725.37
22	44000600	SIDEWALK REM	SQ FT	3442	\$ 1.00	\$ 3,442.00	\$ 1.00	\$ 3,442.00	\$ 1.50	\$ 5,163.00	\$ 1.75	\$ 6,023.50	\$ 2.00	\$ 6,884.00	\$ 3.00	\$ 10,326.00	\$ 1.80	\$ 6,195.60
23	44200929	CL B PATCH T1 8	SQ YD	20	\$ 200.00	\$ 4,000.00	\$ 175.00	\$ 3,500.00	\$ 250.00	\$ 5,000.00	\$ 250.00	\$ 5,000.00	\$ 468.50	\$ 9,370.00	\$ 150.00	\$ 3,000.00	\$ 227.73	\$ 4,554.60
24	44200934	CL B PATCH T2 8	SQ YD	20	\$ 150.00	\$ 3,000.00	\$ 90.00	\$ 1,800.00	\$ 150.00	\$ 3,000.00	\$ 200.00	\$ 4,000.00	\$ 466.00	\$ 9,320.00	\$ 150.00	\$ 3,000.00	\$ 227.73	\$ 4,554.60
25	44200942	CL B PATCH T3 8	SQ YD	70	\$ 125.00	\$ 8,750.00	\$ 90.00	\$ 6,300.00	\$ 125.00	\$ 8,750.00	\$ 175.00	\$ 12,250.00	\$ 188.60	\$ 13,202.00	\$ 150.00	\$ 10,500.00	\$ 227.73	\$ 15,941.10
26	44200944	CL B PATCH T4 8	SQ YD	50	\$ 120.00	\$ 6,000.00	\$ 80.00	\$ 4,000.00	\$ 100.00	\$ 5,000.00	\$ 150.00	\$ 7,500.00	\$ 242.50	\$ 12,125.00	\$ 150.00	\$ 7,500.00	\$ 227.73	\$ 11,386.50
27	44201670	CL D PATCH T1 2	SQ YD	5	\$ 67.00	\$ 335.00	\$ 45.00	\$ 225.00	\$ 200.00	\$ 1,000.00	\$ 105.00	\$ 525.00	\$ 36.00	\$ 180.00	\$ 109.00	\$ 545.00	\$ 381.01	\$ 1,905.05
28	44201672	CL D PATCH T2 2	SQ YD	20	\$ 50.00	\$ 1,000.00	\$ 35.00	\$ 700.00	\$ 150.00	\$ 3,000.00	\$ 65.00	\$ 1,300.00	\$ 34.00	\$ 680.00	\$ 59.00	\$ 1,180.00	\$ 123.75	\$ 2,475.00
29	44201674	CL D PATCH T3 2	SQ YD	20	\$ 45.00	\$ 900.00	\$ 30.00	\$ 600.00	\$ 80.00	\$ 1,600.00	\$ 60.00	\$ 1,200.00	\$ 32.00	\$ 640.00	\$ 59.00	\$ 1,180.00	\$ 89.88	\$ 1,797.60
30	44201676	CL D PATCH T4 2	SQ YD	20	\$ 35.00	\$ 700.00	\$ 30.00	\$ 600.00	\$ 70.00	\$ 1,400.00	\$ 55.00	\$ 1,100.00	\$ 30.00	\$ 600.00	\$ 59.00	\$ 1,180.00	\$ 89.88	\$ 1,797.60
31	44201713	CL D PATCH T1 6	SQ YD	5	\$ 105.00	\$ 525.00	\$ 125.00	\$ 625.00	\$ 225.00	\$ 1,125.00	\$ 165.00	\$ 825.00	\$ 69.00	\$ 345.00	\$ 150.00	\$ 750.00	\$ 318.13	\$ 1,590.65
32	44201717	CL D PATCH T2 6	SQ YD	20	\$ 91.00	\$ 1,820.00	\$ 90.00	\$ 1,800.00	\$ 150.00	\$ 3,000.00	\$ 135.00	\$ 2,700.00	\$ 67.00	\$ 1,340.00	\$ 125.00	\$ 2,500.00	\$ 123.63	\$ 2,472.60
33	44201721	CL D PATCH T3 6	SQ YD	97	\$ 82.00	\$ 7,954.00	\$ 80.00	\$ 7,760.00	\$ 85.00	\$ 8,245.00	\$ 125.00	\$ 12,125.00	\$ 65.00	\$ 6,305.00	\$ 125.00	\$ 12,125.00	\$ 94.76	\$ 9,191.72
34	44201723	CL D PATCH T4 6	SQ YD	94	\$ 70.00	\$ 6,580.00	\$ 70.00	\$ 6,580.00	\$ 80.00	\$ 7,520.00	\$ 105.00	\$ 9,870.00	\$ 63.00	\$ 5,922.00	\$ 125.00	\$ 11,750.00	\$ 96.97	\$ 9,115.18
35	48101202	AGGREGATE SHLDS B	CU YD	80	\$ 75.00	\$ 6,000.00	\$ 38.00	\$ 3,040.00	\$ 40.00	\$ 3,200.00	\$ 75.00	\$ 6,000.00	\$ 135.80	\$ 10,864.00	\$ 60.00	\$ 4,800.00	\$ 99.67	\$ 7,973.60
36	60108206	PIPE UNDERDRAINS T1 6	FOOT	200	\$ 50.00	\$ 10,000.00	\$ 58.00	\$ 11,600.00	\$ 30.00	\$ 6,000.00	\$ 60.00	\$ 12,000.00	\$ 55.00	\$ 11,000.00	\$ 60.00	\$ 12,000.00	\$ 67.73	\$ 13,546.00
37	60200105	CB TA 4 DIA T1F	EACH	1	\$ 3,650.00	\$ 3,650.00	\$ 6,950.00	\$ 6,950.00	\$ 3,000.00	\$ 3,000.00	\$ 6,950.00	\$ 6,950.00	\$ 3,185.90	\$ 3,185.90	\$ 7,500.00	\$ 7,500.00	\$ 8,115.12	\$ 8,115.12
38	60206905	CB TC T1F OL	EACH	2	\$ 2,000.00	\$ 4,000.00	\$ 2,350.00	\$ 4,700.00	\$ 2,500.00	\$ 5,000.00	\$ 2,350.00	\$ 4,700.00	\$ 2,295.00	\$ 4,590.00	\$ 3,500.00	\$ 7,000.00	\$ 2,743.96	\$ 5,487.92
39	60218400	MAN TA 4 DIA T1F	EACH	1	\$ 5,000.00	\$ 5,000.00	\$ 8,959.00	\$ 8,959.00	\$ 4,000.00	\$ 4,000.00	\$ 8,959.00	\$ 8,959.00	\$ 7,387.80	\$ 7,387.80	\$ 7,500.00	\$ 7,500.00	\$ 10,450.41	\$ 10,450.41
40	60234200	INLETS TA T1F	EACH	4	\$ 1,800.00	\$ 7,200.00	\$ 2,150.00	\$ 8,600.00	\$ 2,000.00	\$ 8,000.00	\$ 2,150.00	\$ 8,600.00	\$ 1,970.75	\$ 7,883.00	\$ 3,500.00	\$ 14,000.00	\$ 2,510.44	\$ 10,041.76
41	60406000	FR & LIDS T1 OL	EACH	8	\$ 350.00	\$ 2,800.00	\$ 400.00	\$ 3,200.00	\$ 400.00	\$ 3,200.00	\$ 400.00	\$ 3,200.00	\$ 545.75	\$ 4,366.00	\$ 500.00	\$ 4,000.00	\$ 467.06	\$ 3,736.48
42	60406100	FR & LIDS T1 CL	EACH	4	\$ 350.00	\$ 1,400.00	\$ 400.00	\$ 1,600.00	\$ 400.00	\$ 1,600.00	\$ 400.00	\$ 1,600.00	\$ 545.75	\$ 2,183.00	\$ 500.00	\$ 2,000.00	\$ 467.06	\$ 1,868.24
43	60600605	CONC CURB TB	FOOT	200	\$ 32.00	\$ 6,400.00	\$ 32.00	\$ 6,400.00	\$ 45.00	\$ 9,000.00	\$ 35.00	\$ 7,000.00	\$ 35.35	\$ 7,070.00	\$ 29.00	\$ 5,800.00	\$ 37.27	\$ 7,454.00
44	60603800	COMB CC&G TB6.12	FOOT	779	\$ 26.00	\$ 20,254.00	\$ 35.00	\$ 27,265.00	\$ 28.00	\$ 21,812.00	\$ 25.00	\$ 19,475.00	\$ 36.90	\$ 28,745.10	\$ 31.50	\$ 24,538.50	\$ 41.73	\$ 32,507.67
45	60604400	COMB CC&G TB6.18	FOOT	1100	\$ 29.00	\$ 31,900.00	\$ 35.00	\$ 38,500.00	\$ 30.00	\$ 33,000.00	\$ 25.00	\$ 27,500.00	\$ 24.95	\$ 27,445.00	\$ 33.50	\$ 36,850.00	\$ 44.09	\$ 48,499.00
46	67100100	MOBILIZATION "BASE BID 1"	L SUM		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
46	67100100	MOBILIZATION "BASE BID 2"	L SUM	1	\$ 30,000.00	\$ 30,000.00	\$ 8,000.00	\$ 8,000.00	\$ 40,000.00	\$ 40,000.00	\$ 26,250.00	\$ 26,250.00	\$ 49,450.00	\$ 49,450.00	\$ 70,000.00	\$ 70,000.00	\$ 10,697.69	\$ 10,697.69
47		TRAFFIC CONT & PROT "BASE BID 1"	L SUM		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
47		TRAFFIC CONT & PROT "BASE BID 2"	L SUM	1	\$ 20,000.00	\$ 20,000.00	\$ 17,000.00	\$ 17,000.00	\$ 50,000.00	\$ 50,000.00	\$ 15,000.00	\$ 15,000.00	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	\$ 8,714.18	\$ 8,714.18
48		CLEARING AND GRUBBING	SQ YD	40	\$ 40.00	\$ 1,600.00	\$ 25.00	\$ 1,000.00	\$ 24.00	\$ 960.00	\$ 50.00	\$ 2,000.00	\$ 60.00	\$ 2,400.00	\$ 20.00	\$ 800.00	\$ 29.04	\$ 1,161.60
49		HMA SURF REM VAR DP	SQ YD	1667	\$ 5.00	\$ 8,335.00	\$ 3.00	\$ 5,001.00	\$ 6.00	\$ 10,002.00	\$ 10.00	\$ 16,670.00	\$ 20.00	\$ 33,340.00	\$ 10.00	\$ 16,670.00	\$ 9.45	\$ 15,753.15
50		BRICK PAVT REMOVAL	SQ FT	15000	\$ 3.00	\$ 45,000.00	\$ 3.00	\$ 45,000.00	\$ 3.30	\$ 49,500.00	\$ 3.00	\$ 45,000.00	\$ 3.00	\$ 45,000.00	\$ 1.00	\$ 15,000.00	\$ 2.63	\$ 39,450.00
51		BRICK PAVT INSTALL	SQ FT	15000	\$ 7.00	\$ 105,000.00	\$ 5.85	\$ 87,750.00	\$ 6.50	\$ 97,500.00	\$ 6.00	\$ 90,000.00	\$ 5.85					