



Milwaukee Metropolitan Sewerage District
 260 W. Seeboth Street
 Milwaukee, Wisconsin 53201
 WWW.MMSD.COM

PURCHASE ORDER NUMBER

9671

SHOW THIS NUMBER ON ALL SHIPMENTS, INVOICE, B/L'S AND CORRESPONDENCE. COPIES OF PACKING LIST MUST ACCOMPANY ALL SHIPMENTS AND INVOICES.

Send Invoice To:
 Accounts Payable Department, apinvoice@mmsd.com

Milwaukee Metropolitan Sewerage District
 260 W. Seeboth Street
 Milwaukee, Wisconsin 53201

Ship To:
 MMSD Headquarters
 260 West Seeboth Street
 P.O. Box 3049
 Milwaukee WI 53204-3049

DATE: 07/25/2017

Vendor: 3612

TO CITY OF MILWAUKEE - DPW
 841 NORTH BROADWAY
 ROOM 919
 MILWAUKEE WI 53202

| TERMS | Prepaid and Add | | DATE REQUIRED | PO STATUS | PRICE | TOTAL |
|------------|-----------------|--------|--|-----------|------------|------------|
| FRT TERMS | | | July 26, 2017 | ORIGINAL | | |
| SHIP TERMS | | | Unless Specified by Line | | | |
| ITEM# | QUANTITY | U.O.M. | DESCRIPTION | | | |
| 1 | 1.0000 | SVC | NINE GREEN ALLEYS FUNDING AGREEMENT M03076P54 GREEN SOLUTIONS FUNDING AGREEMENT M03076P54, NINE GREEN ALLEYS AS PER COMMISSION RESOLUTION FILE # 17-057-6, ADOPTED JUNE 26, 2017 AND FUNDING AGREEMENT M03076P54. NOT TO EXCEED: \$636,744.00 THIS AGREEMENT BECOMES EFFECTIVE IMMEDIATELY UPON SIGNATURE BY BOTH PARTIES AND ENDS WHEN MILWAUKEE RECEIVES FINAL PAYMENT FROM THE DISTRICT OR WHEN THE PARTIES TERMINATE THIS AGREEMENT. CITY OF MILWAUKEE CONTACT: SOLOMON BEKELE P 414-286-0507 E sbekel@milwaukee.gov MMSD CONTACT: ANDY KAMINSKI P 414-225-2245 E akaminski@mmsd.com NOTE: THE NOT TO EXCEED AMOUNT SHOWN IS THE LIMIT OF THIS CONTRACT AND IS NOT GUARANTEED. | | 636,744.00 | 636,744.00 |

TOTAL: \$636,744.00

EXEMPT FROM WISCONSIN SALES & USE TAX FID #39-6005534

The District's practice is to pay invoices, assuming they are accurate and there is no dispute, within thirty (30) days. Please email all invoices to apinvoice@mmsd.com.

BUYER NAME: Jen White
 BUYER PHONE: _____
 BUYER EMAIL: _____



Green Solutions Funding Agreement M03076P54

Nine Green Alleys

This Agreement is between the Milwaukee Metropolitan Sewerage District (District), 260 West Seeboth Street, Milwaukee, Wisconsin 53204-1446 and the City of Milwaukee, Department of Public Works (Milwaukee), 841 North Broadway, Milwaukee, Wisconsin 53202.

WHEREAS, Wisconsin law authorizes any municipality to establish an intergovernmental cooperation agreement with another municipality for the furnishing of services (Wis. Stat. sec. 66.0301); and

WHEREAS, the District is responsible for collecting and treating wastewater from locally-owned sewerage systems in the District's service area; and

WHEREAS, during wet weather, stormwater enters the sewerage system, increasing the volume of wastewater the District must collect and treat; and

WHEREAS, during wet weather, stormwater directly enters surface water, increasing pollution levels in those waterways and increasing the risk of flooding; and

WHEREAS, green infrastructure, such as constructed wetlands, rain gardens, green roofs, bioswales, and porous pavement, reduces the volume of stormwater in the sewerage system and the amount of pollutants discharged to surface waters; and

WHEREAS, the District's wastewater discharge permit requires the installation of twelve million gallons of new green infrastructure retention capacity before the end of 2017; and

WHEREAS, the District wants to expedite the amount of green infrastructure installed in its service area; and

WHEREAS, Milwaukee plans to install green infrastructure that supports the District's green infrastructure goals;

Now, therefore, for the consideration of the mutual promises made by the parties to this Agreement, the parties agree as follows.

1. Date of Agreement

This Agreement becomes effective immediately upon signature by both parties and ends when Milwaukee receives final payment from the District or when the parties terminate this Agreement according to sec. 12 of this Agreement.

2. District Funding

The District will reimburse Milwaukee for the cost of the project described in the attached project description (Project), up to \$636,744. The District will provide funding after the District receives the Baseline Report and the signed Maintenance Covenant.

3. Location of the Project

The Project is the construction of nine green alleys, as identified in the project description.

4. Baseline Report

After completion of the Project, Milwaukee will provide a Baseline Report using forms provided or approved by the District. The Baseline Report will include:

- (a) a site drawing, showing the Project as completed;
- (b) design specifications for the Project, including rainwater capture capacity (maximum per storm) and other information regarding runoff rate reduction or pollutant capture;
- (c) a legal description of the property where the Project is located;
- (d) photographs of the completed Project;
- (e) a maintenance plan;
- (f) an outreach and education strategy, including a description of events or activities completed or planned;
- (g) an itemization of all construction costs, with supporting documentation;
- (h) a W-9 Tax Identification Number form;
- (i) a Small, Veterans, Women, and Minority Business Enterprise Report; and
- (j) an Economic Impact Report, showing the total number of people and the estimated number of hours worked on design and construction of the Project by Milwaukee's employees, contractors, consultants, and volunteers.

5. Procedure for Payment

Milwaukee will submit an invoice to the District for the amount to be reimbursed. The invoice will document all costs to be reimbursed. Invoices from consultants will provide: their hourly billing rates, if applicable; the hours worked, by individual; and a summary of the tasks accomplished.

Milwaukee will send the Baseline Report and the invoice to:

Andy Kaminski, Civil Engineer
Milwaukee Metropolitan Sewerage District
260 West Seeboth Street
Milwaukee, Wisconsin 53204 – 1446

The District will not provide reimbursement until the Project is complete and the District has received all required deliverables.

6. Changes in the Project and Modifications to the Agreement

Any changes to the Project must be approved by the District in writing in advance. The District will not reimburse for work that is not described in the original project description unless Milwaukee obtains prior written approval from the District.

7. Modifications to this Agreement

Any modifications to this Agreement will be in writing and signed by both parties.

8. Project Maintenance

Milwaukee will maintain the Project for at least ten years. If the Project fails to perform as anticipated or if maintaining the Project is not feasible, then Milwaukee will provide a report to the District explaining the failure of the Project or why maintenance is not feasible. Failure to maintain the Project will make Milwaukee ineligible for future District funding until Milwaukee corrects the maintenance problems.

9. Permits, Certificates, and Licenses

Milwaukee is solely responsible for compliance with all federal, state, and local laws and any required permits, certificates, or licenses.

10. Public Bidding

Milwaukee must select professional service providers according to Milwaukee's ordinances and policies. Milwaukee must procure all non-professional services, such as construction, sewer inspection, and post-construction restoration, according to State of Wisconsin statutes and regulations and Milwaukee's ordinances and policies. Whenever work valued over \$25,000 is procured without the use of a public sealed bidding process, the District may request and Milwaukee must provide an opinion from a licensed attorney representing Milwaukee explaining why the procurement complies with State of Wisconsin law and Milwaukee's ordinances.

11. Responsibility for Work, Insurance, and Indemnification

Milwaukee is solely responsible for planning, design, construction, and maintenance of the Project, including the selection of and payment for consultants, contractors, and materials.

The District will not provide any insurance coverage of any kind for the Project or Milwaukee.

Milwaukee will defend, indemnify, and hold harmless the District and its Commissioners, employees, and agents against all damages, costs, liability, and expenses, including attorney's fees and related disbursements, arising from or connected with the planning, design, construction, operation, or maintenance of the Project.

12. Terminating this Agreement

The District may terminate this Agreement at any time before the commencement of construction. After the commencement of construction, the District may terminate this Agreement only for good cause, including, but not limited to, breach of this Agreement by Milwaukee. Milwaukee may terminate this Agreement at any time, but will not receive any payment from the District if Milwaukee does not complete the Project.

13. Maintenance Covenant

After the completion of construction, the District must receive a Maintenance Covenant from Milwaukee. The Maintenance Covenant will be limited to the Project. The term of the Maintenance Covenant will be ten years.

14. Exclusive Agreement

This Agreement is the entire agreement between Milwaukee and the District.

15. Severability

If a court holds any part of this Agreement unenforceable, then the remainder of the Agreement will continue in effect.

16. Applicable Law

The laws of the State of Wisconsin apply to this Agreement.

17. Resolving Disputes

If a dispute arises under this Agreement, then the parties will try to resolve the dispute with the help of a mutually agreed-upon mediator in Milwaukee County. The parties will equally share the costs and fees associated with the mediation, other than attorney's fees. If the dispute is not resolved within 30 days after it is referred to the mediator, then either party may take the matter to court.

18. Notices

All notices and other communications in connection with this Agreement will be in writing and will be considered given as follows:

- (a) when delivered personally to the recipient's address as stated on this Agreement; or
- (b) three days after being deposited in the United States mail, with postage prepaid to the recipient's address as stated on this Agreement.

19. Independence of the Parties

This Agreement does not create a partnership. Milwaukee does not have authority to make promises binding upon the District or otherwise have authority to enter into contracts on the District's behalf.

20. Assignment

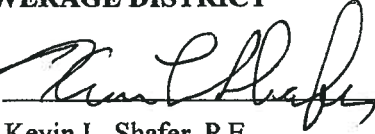
Milwaukee may not assign any rights or obligations under this Agreement without the District's prior written approval.

21. Public Records

Milwaukee will produce any records in the possession of Milwaukee that are subject to disclosure by the District pursuant to the State of Wisconsin's Open Records Law, Wis. Stats. secs. 19.31 to 19.39. Milwaukee will indemnify the District against all claims, demands, or causes of action resulting from Milwaukee's failure to comply with this requirement.

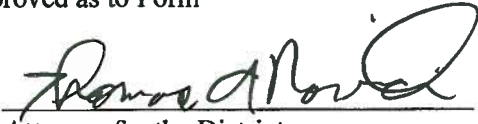
Signatures on Next Page

**MILWAUKEE METROPOLITAN
SEWERAGE DISTRICT**


By: 
Kevin L. Shafer, P.E.
Executive Director

Date: 6/30/17

Approved as to Form

By: 
Attorney for the District

**CITY OF MILWAUKEE
DEPARTMENT OF PUBLIC WORKS**

By: 
Ghassan Korban, P.E.
Commissioner

Date: 6/19/17

Green Solutions Funding Agreement M03076P54

Nine Green Alleys

Project Description

Milwaukee will install permeable pavers in nine alleys bounded by the following streets.

1. West Cleveland Ave, West Montana St, South 49th St and South 50th St
2. West Greenfield Ave, South Layton Blvd, West Scott St and South 28th St
3. West Main St, South 61st St, South 62nd St and lands north
4. West Auer Ave, West Concordia Ave, North 87th St and North 88th St
5. West Keefe Ave, West Nash St, North 99nd St and North 100th St
6. West Chambers St, West Locust St, North 76th St and North 77th St
7. West Keefe Ave, West Medford Ave, West Roosevelt Dr., West Scranton Pl and North 45th St
8. West Fiebrantz Ave, West Hope Ave, North 82nd St and North 83rd St
9. West Auer Ave, West Burleigh St, North 54th St and North 55th St (north/south leg)

The total amount of alley area will be removed and replaced is approximately 96,000 sq. ft. Approximately 18% (17,500 sq. ft.) will be permeable paver area. As part of the paving project, the entire lengths of the alleys will be excavated and removed to install the pavers in the center 4-feet of each alley over a strip of 3/4-inch bedding layer placed over a 2-foot depth of storage area with 2½-inch crushed stone. The stone will be installed to capture and store stormwater. Storm water runoff from garages and surface runoff will percolate through the pavers and into the storage area. The attached tables describe the elements of each alley.

For each green alley, Milwaukee will install 12-inch diameter perforated underdrains within the storage layer and be connected to either side of the existing catch basin located at the end of each alley to remove excess stormwater to the storm sewer system. The existing catch basin will also be used as an overflow structure.

Budget

Total cost for these projects is estimated be \$1,200,000. The cost for the permeable pavers and associated materials is approximately \$746,376. The attached tables provide cost estimates for each alley.

Schedule

Milwaukee will complete construction before December 31, 2017.

Outreach and Education

Milwaukee will post educational signage at the Project site. This signage will acknowledge District funding for the Project. In addition, Fox Point will describe the Project and its benefits in a community newsletter or web page.

Results

One of the alleys is located in a combined sewer service area. This alley will have the capacity to remove up to approximately 80,000 gallons of storm water runoff. The remaining eight alleys are in the separate storm sewer area and will capture up to 420,000 gallons. Total retention capacity will be 500,000 gallons.

The eight green alleys located within the separate storm sewer area will remove at least 55% of total suspended solids.

Green Alley 1

| Alley bounded by: W. Cleveland Av., W. Montana St., S. 49th St. S. 50th St. | | | | |
|---|------|----------|------------|------------------|
| Item | Unit | Quantity | Unit Price | Estimate |
| Mobilization | L.S. | 1 | \$2,000 | \$2,000 |
| Finishing Roadway | L.S. | 1 | \$500 | \$500 |
| Barricading and Signing | L.S. | 1 | \$500 | \$500 |
| Cutting | C.Y. | 992 | \$24 | \$23,808 |
| Pavement Removal | S.Y. | 1,292 | \$5 | \$6,460 |
| Concrete Walk and/or Driveway Removal | S.Y. | 198 | \$1 | \$198 |
| 5 inch Concrete Walk | S.F. | 78 | \$5 | \$390 |
| 7 inch Concrete Driveway | S.F. | 120 | \$6 | \$720 |
| 7 inch Concrete Alley Pavement | S.F. | 1,052 | \$35 | \$36,820 |
| 4 inch Crushed Stone Base | S.F. | 1,052 | \$7 | \$7,259 |
| 24 inches of 2 & 1/2 inch (ASTM #2) Crushed Stone Base | S.F. | 1,292 | \$25 | \$32,300 |
| 3/4" Bedding Stone | TONS | 73 | \$12 | \$876 |
| 1/4" Bedding Stone | TONS | 20 | \$16 | \$320 |
| Sodding | S.F. | 35 | \$24 | \$840 |
| Topsoil | C.Y. | 2 | \$50 | \$100 |
| Geotextile Fabric, Type DF | S.F. | 1,593 | \$3 | \$4,779 |
| Sealing Pavement Joints and Cracks | S.F. | 1,052 | \$1 | \$1,052 |
| Manhole / Inlet Adjustment Type I | V.F. | 1 | \$250 | \$250 |
| Permeable Pavers | S.F. | 2,160 | \$12 | \$25,920 |
| Erosion Control | L.S. | 1 | \$100 | \$100 |
| Project Total | | | | \$145,192 |
| Project Totals for Green Alley Items | | | | \$88,003 |

Green Alley 2

| Alley bounded by: W. Greenfield Av., S. Layton Bl., W. Scott St., S. 28th St. | | | | |
|---|------|----------|------------|-----------|
| Item | Unit | Quantity | Unit Price | Estimate |
| Mobilization | L.S. | 1 | \$5,000 | \$5,000 |
| Finishing Roadway | L.S. | 1 | \$2,000 | \$2,000 |
| Barricading and Signing | L.S. | 1 | \$1,500 | \$1,500 |
| Cutting | C.Y. | 1,212 | \$25 | \$30,300 |
| Pavement Removal | S.Y. | 1,486 | \$6 | \$8,916 |
| Concrete Walk and/or Driveway Removal | S.F. | 84 | \$1 | \$84 |
| Sawing (Full Depth} | L.F. | 130 | \$2 | \$260 |
| Variable Thickness Concrete Walk and/or Driveway | C.Y. | 1 | \$250 | \$250 |
| 7 inch Concrete Driveway | S.F. | 1,179 | \$35 | \$41,265 |
| Variable Thickness Concrete Base | C.Y. | 1 | \$250 | \$250 |
| Variable Thickness Asphalt Concrete Pavement | TONS | 1 | \$200 | \$200 |
| 4 inch Crushed Stone Base | S.Y. | 1,179 | \$5 | \$5,895 |
| 24 inches of 2 & 1/2 inch (ASTM #2} Crushed Stone Base | S.Y. | 1,486 | \$25 | \$37,150 |
| 3/4" Bedding Stone | TONS | 91 | \$15 | \$1,365 |
| 1/4" Bedding Stone | TONS | 45 | \$15 | \$675 |
| Sodding | S.Y. | 48 | \$25 | \$1,200 |
| Topsoil | C.Y. | 3 | \$50 | \$150 |
| Geotextile Fabric, Type DF | S.V. | 1,920 | \$4 | \$6,720 |
| Sealing Pavement Joints and Cracks | S.V. | 1,179 | \$2 | \$2,004 |
| Manhole / Inlet Adjustment Type I | V.F. | 3 | \$250 | \$750 |
| Permeable Pavers | S.F. | 2,772 | \$15 | \$41,580 |
| Erosion Control | L.S. | 1 | \$500 | \$500 |
| Project Total | | | | \$188,014 |
| Project Totals for Green Alley Items | | | | \$117,790 |

Green Alley 3

| Alley bounded by: W. Main St., S. 61st St., S. 62nd St., Lands north | | | | |
|--|------|----------|------------|-----------------|
| Item | Unit | Quantity | Unit Price | Estimate |
| Mobilization | L.S. | 1 | \$5,000 | \$5,000 |
| Finishing Roadway | L.S. | 1 | \$800 | \$800 |
| Barricading and Signing | L.S. | 1 | \$600 | \$600 |
| Cutting | C.Y. | 510 | \$25 | \$12,495 |
| Pavement Removal | S.Y. | 646 | \$6 | \$3,876 |
| Concrete Walk and/or Driveway Removal | S.F. | 28 | \$1 | \$28 |
| Sawing (Full Depth) | L.F. | 397 | \$2 | \$794 |
| Variable Thickness Concrete Walk and/or Driveway | C.Y. | 1 | \$275 | \$275 |
| 7 inch Concrete Alley Pavement | S.Y. | 514 | \$39 | \$19,789 |
| Variable Thickness Concrete Base | C.Y. | 15 | \$300 | \$4,500 |
| Variable Thickness Asphalt Concrete Pavement | TONS | 11 | \$300 | \$3,300 |
| 4 inch Crushed Stone Base | S.Y. | 514 | \$6 | \$3,084 |
| 24 inches of 2 & 1/2 inch (ASTM #2) Crushed Stone Base | S.Y. | 646 | \$25 | \$16,150 |
| 3/4" Bedding Stone | TONS | 40 | \$12 | \$480 |
| 1/4" Bedding Stone | TONS | 11 | \$18 | \$198 |
| Sodding | S.Y. | 40 | \$24 | \$960 |
| Topsoil | C.Y. | 2 | \$50 | \$100 |
| Geotextile Fabric, Type DF | S.Y. | 832 | \$3 | \$2,621 |
| Sealing Pavement Joints and Cracks | S.Y. | 514 | \$1 | \$720 |
| Manhole /Inlet Adjustment Type I | V.F. | 1 | \$250 | \$250 |
| Permeable Pavers | S.F. | 1,180 | \$12 | \$14,455 |
| Erosion Control | L.S. | 1 | \$200 | \$200 |
| Project Total | | | | \$90,675 |
| Project Totals for Green Alley Items | | | | \$46,399 |

Green Alley 4

| Alley bounded by: W Auer Ave, W Concordia Ave, N 87th St, N 88th St. | | | | |
|--|------|----------|------------|-----------|
| Item | Unit | Quantity | Unit Price | Estimate |
| Mobilization | L.S. | 1 | \$4,000 | \$4,000 |
| Finishing Roadway | L.S. | 1 | \$2,200 | \$2,200 |
| Barricading and Signing | L.S. | 1 | \$1,800 | \$1,800 |
| Cutting | C.Y. | 859 | \$25 | \$21,475 |
| Pavement Removal | S.Y. | 1,333 | \$6 | \$7,998 |
| Concrete Walk and/or Driveway Removal | S.F. | 26 | \$1 | \$26 |
| Sawing (Full Depth) | L.F. | 10 | \$2 | \$20 |
| Variable Thickness Concrete Walk and/or Driveway | C.Y. | 1 | \$250 | \$250 |
| 7 inch Concrete Driveway | S.F. | 0 | \$5 | \$0 |
| 7 inch Concrete Alley Pavement | S.Y. | 1,144 | \$35 | \$40,040 |
| Variable Thickness Concrete Base | C.Y. | 0 | \$240 | \$0 |
| Variable Thickness Asphalt Concrete Pavement | Tons | 0 | \$200 | \$0 |
| 4 inch crushed stone base | S.Y. | 1,144 | \$5 | \$5,720 |
| 24 inches of 2 & 1/2 inch (ASTM #2) Crushed Stone | S.Y. | 1,068 | \$25 | \$26,700 |
| 3/4" Bedding Stone | TONS | 68 | \$15 | \$1,020 |
| 1/4" Bedding Stone | TONS | 16 | \$15 | \$240 |
| Sodding | S.Y. | 30 | \$25 | \$750 |
| Topsoil | C.Y. | 2 | \$50 | \$100 |
| Geotextile Fabric, Type DF | S.Y. | 1,316 | \$4 | \$4,606 |
| Sealing Pavement Joints and Cracks | S.Y. | 1,333 | \$2 | \$2,266 |
| Manhole / Inlet Adjustment Type I | V.F. | 1 | \$250 | \$250 |
| Permeable Pavers | S.F. | 1,700 | \$15 | \$25,500 |
| Erosion Control | L.S. | 1 | \$100 | \$100 |
| Project Total | | | | \$145,061 |
| Project Totals for Green Alley Items | | | | \$79,541 |

Green Alley 5

| Alley bounded by: W Keefe Ave,W Nash St,N 99th St N I00th St | | | | |
|--|------|----------|------------|-----------|
| Item | Unit | Quantity | Unit Price | Estimat |
| Mobilization | L.S. | 1 | \$2,000 | \$2,000 |
| Finishing Roadway | L.S. | 1 | \$500 | \$500 |
| Barricading and Signing | L.S. | 1 | \$500 | \$500 |
| Cutting | C.Y. | 928 | \$24 | \$22,272 |
| Pavement Removal | S.Y. | 1,192 | \$5 | \$5,960 |
| Concrete Walk and/or Driveway Removal | S.Y. | 108 | \$1 | \$108 |
| 7 inch Concrete Driveway | S.F. | 108 | \$6 | \$648 |
| 7 inch Concrete Alley Pavement | S.F. | 948 | \$35 | \$33,180 |
| 4 inch Crushed Stone Base | S.F. | 948 | \$7 | \$6,541 |
| 24 inches of 2 & 1/2 inch (ASTM #2) Crushed Stone Base | S.Y. | 1,192 | \$25 | \$29,800 |
| Variable Thickness Crushed Stone | S.Y. | 2 | \$35 | \$70 |
| 3/4" Bedding Stone | TONS | 75 | \$12 | \$900 |
| 1/4" Bedding Stone | TONS | 20 | \$16 | \$320 |
| Sodding | S.Y. | 23 | \$24 | \$552 |
| Topsoil | C.Y. | 1 | \$50 | \$50 |
| Geotextile Fabric.Type OF | S.Y. | 1,501 | \$3 | \$4,503 |
| Sealing Pavement Joints and Cracks | S.Y. | 948 | \$1 | \$948 |
| Manhole /Inlet Adjustment Type I | V.F. | 2 | \$250 | \$500 |
| Permeable Pavers | S.F. | 2,200 | \$12 | \$26,400 |
| Erosion Control | L.S. | 1 | \$100 | \$100 |
| Project Total | | | | \$135,852 |
| Project Totals for Green Alley Items | | | | \$84,195 |

Green Alley 6

| Alley bounded by: W. Chambers St., W Locust St, N 76 th St, N 77 th St. | | | | |
|---|------|----------|------------|------------------|
| Item | Unit | Quantity | Unit Price | Estimate |
| Mobilization | L.S. | 1 | \$2,000 | \$2,000 |
| Finishing Roadway | L.S. | 1 | \$500 | \$500 |
| Barricading and Signing | L.S. | 1 | \$500 | \$500 |
| Cutting | C.Y. | 907 | \$24 | \$21,768 |
| Pavement Removal | S.Y. | 1,210 | \$5 | \$6,050 |
| Concrete Walk and/or Driveway Removal | S.F. | 432 | \$1 | \$432 |
| Sawing (Full Depth) | L.F. | 408 | \$2 | \$816 |
| Variable Thickness Concrete Walk and/or Driveway | C.Y. | 1 | \$250 | \$750 |
| 7 inch Concrete Driveway | S.F. | 108 | \$6 | \$648 |
| 7 inch Concrete Alley Pavement | S.F. | 980 | \$35 | \$34,300 |
| Variable Thickness Concrete Base | C.Y. | 7 | \$235 | \$1,645 |
| Variable Thickness Asphalt Concrete Pavement | TONS | 4 | \$230 | \$800 |
| 4 inch Crushed Stone Base | S.Y. | 980 | \$7 | \$6,762 |
| 24 inches of 2 & 1/2 inch (ASTM #2) Crushed Stone Base | S.Y. | 1,210 | \$25 | \$30,250 |
| 3/4" Bedding Stone | TONS | 70 | \$12 | \$840 |
| 1/4" Bedding Stone | TONS | 19 | \$16 | \$304 |
| Sodding | S.Y. | 19 | \$24 | \$456 |
| Topsoil | C.Y. | 1 | \$50 | \$50 |
| Geotextile Fabric, Type DF | S.Y. | 1,523 | \$3 | \$4,569 |
| Sealing Pavement Joints and Cracks | S.Y. | 980 | \$1 | \$980 |
| Manhole/Inlet Adjustment Type I | V.F. | 1 | \$250 | \$250 |
| Permeable Pavers | S.F. | 2,074 | \$12 | \$24,888 |
| Erosion Control | L.S. | 1 | \$100 | \$100 |
| Project Total | | | | \$139,158 |
| Project Totals for Green Alley Items | | | | \$82,619 |

Green Alley 7

| Alley bounded by: W. Keefe Av., W. Medford Av., W. Roosevelt Dr., W. Scranton Pl., N. | | | | |
|---|------|----------|------------|------------------|
| Item | Unit | Quantity | Unit Price | Estimate |
| Mobilization | L.S. | 1 | \$2,000 | \$2,000 |
| Finishing Roadway | L.S. | 1 | \$500 | \$500 |
| Barricading and Signing | L.S. | 1 | \$500 | \$500 |
| Cutting | C.Y. | 969 | \$24 | \$23,256 |
| Pavement Removal | S.Y. | 1,273 | \$5 | \$6,365 |
| Concrete Walk and/or Driveway Removal | S.F. | 174 | \$1 | \$174 |
| Sawing (Full Depth) | L.F. | 163 | \$2 | \$326 |
| Variable Thickness Concrete Walk and/or Driveway | C.Y. | 3 | \$250 | \$750 |
| 7 inch Concrete Alley Pavement | S.F. | 1,075 | \$35 | \$37,625 |
| Variable Thickness Concrete Base | C.Y. | 1 | \$250 | \$250 |
| Variable Thickness Asphalt Concrete Pavement | TONS | 1 | \$230 | \$230 |
| 4 inch Crushed Stone Base | S.Y. | 1,267 | \$7 | \$8,742 |
| 24 inches of 2 & 1/2 inch (ASTM #2) Crushed Stone Base | S.Y. | 1,273 | \$25 | \$31,825 |
| Variable Thickness Crushed Stone | TONS | 5 | \$35 | \$175 |
| 3/4" Bedding Stone | TONS | 60 | \$12 | \$720 |
| 1/4" Bedding Stone | TONS | 17 | \$16 | \$272 |
| Sodding | S.Y. | 86 | \$24 | \$2,064 |
| Topsoil | C.Y. | 5 | \$50 | \$250 |
| Geotextile Fabric, Type DF | S.Y. | 1,603 | \$3 | \$4,809 |
| Sealing Pavement Joints and Cracks | S.Y. | 1,267 | \$1 | \$1,267 |
| Manhole/Inlet Adjustment Type I | V.F. | 2 | \$250 | \$500 |
| Permeable Pavers | S.F. | 1,776 | \$12 | \$21,312 |
| Erosion Control | L.S. | 1 | \$100 | \$100 |
| Project Total | | | | \$144,012 |
| Project Totals for Green Alley Items | | | | \$82,194 |

Green Alley 8

| Alley bounded by: W. Fiebrantz Av. W. Hope Av., N. 82nd St., N. 83rd St. | | | | |
|--|------|----------|------------|------------------|
| | Unit | Quantity | Unit Price | Estimate |
| Mobilization | L.S. | 1 | \$2,000 | \$2,000 |
| Finishing Roadway | L.S. | 1 | \$500 | \$500 |
| Barricading and Signing | L.S. | 1 | \$500 | \$500 |
| Cutting | C.Y. | 965 | \$24 | \$23,160 |
| Pavement Removal | S.Y. | 1,280 | \$5 | \$6,400 |
| Concrete Walk and/or Driveway Removal | S.F. | 110 | \$1 | \$110 |
| 5 inch Concrete Walk | S.F. | 10 | \$5 | \$50 |
| 7 inch Concrete Driveway | S.F. | 100 | \$6 | \$600 |
| 7 inch Concrete Alley Pavement | S.Y. | 1,046 | \$35 | \$36,610 |
| 4 inch Crushed Stone Base | S.Y. | 1,046 | \$7 | \$7,217 |
| 24 inches of 2 & 1/2 inch (ASTM#2) Crushed Stone Base | S.Y. | 1,280 | \$25 | \$32,000 |
| 3/4" Bedding Stone | TONS | 71 | \$12 | \$852 |
| 1/4" Bedding Stone | TONS | 19 | \$16 | \$304 |
| Sodding | S.Y. | 56 | \$24 | \$1,344 |
| Topsoil | C.Y. | 3 | \$50 | \$150 |
| Geotextile Fabric, Type DF | S.Y. | 1,578 | \$3 | \$4,734 |
| Sealing Pavement Joints and Cracks | S.Y. | 1,046 | \$1 | \$1,046 |
| Manhole / Inlet Adjustment Type I | V.F. | 1 | \$250 | \$250 |
| Permeable Pavers | S.F. | 2,104 | \$12 | \$25,248 |
| Erosion Control | L.S. | 1 | \$100 | \$100 |
| Project Total | | | | \$143,175 |
| Project Totals for Green Alley Items | | | | \$ 86,298 |

Green Alley 9

| Alley bounded by: W Auer Ave, W Burleigh St, N 54th St, N 55th St (n-s leg) | | | | |
|---|------|----------|------------|------------------|
| Item | Unit | Quantity | Unit Price | Estimate |
| Mobilization | L.S. | 1 | \$5,000 | \$5,000 |
| Finishing Roadway | L.S. | 1 | \$700 | \$700 |
| Barricading and Signing | L.S. | 1 | \$540 | \$540 |
| Cutting | C.Y. | 735 | \$25 | \$18,375 |
| Pavement Removal | S.Y. | 918 | \$7 | \$6,426 |
| Concrete Walk and/or Driveway Removal | S.F. | 429 | \$1 | \$429 |
| Sawing (Full Depth) | L.F. | 196 | \$2 | \$392 |
| Variable Thickness Concrete Walk and/or Driveway | C.Y. | 6 | \$250 | \$1,500 |
| 7 inch Concrete Driveway | S.F. | 159 | \$5 | \$795 |
| 7 inch Concrete Alley Pavement | S.Y. | 747 | \$35 | \$26,145 |
| Variable Thickness Concrete Base | C.Y. | 1 | \$240 | \$240 |
| Variable Thickness Asphalt Concrete Pavement | TONS | 1 | \$200 | \$200 |
| 4 inch Crushed Stone Base | S.Y. | 747 | \$4 | \$2,988 |
| 24 inches of 2 & 1/2 inch (ASTM#2) Crushed Stone | S.Y. | 918 | \$25 | \$22,950 |
| 3/4" Bedding Stone | TONS | 52 | \$11 | \$572 |
| 1/4" Bedding Stone | TONS | 14 | \$19 | \$266 |
| Sodding | S.Y. | 28 | \$30 | \$840 |
| Topsoil | C.Y. | 2 | \$100 | \$200 |
| Geotextile Fabric, Type DF | S.Y. | 1,164 | \$4 | \$4,074 |
| Sealing Pavement Joints and Cracks | S.Y. | 747 | \$1 | \$934 |
| Manhole/Inlet Adjustment Type I | V.F. | 1 | \$225 | \$225 |
| Permeable Pavers | S.F. | 1,540 | \$15 | \$23,100 |
| Erosion Control | L.S. | 1 | \$150 | \$150 |
| Project Total | | | | \$117,041 |
| Project Totals for Green Alley Items | | | | \$69,337 |