

ADDENDUM No. 2

ITB No. 4477

Street Surface Treatments - 2017

Bids Due: May 25, 2017 at 2:00 P.M. (local time)

The following changes, additions, and/or deletions shall be made to the Invitation to Bid for Street Surface Treatments - 2017, ITB No. 4478, on which proposals will be received on/or before May 25, 2017, at 2:00 P.M. (local time).

The information contained herein shall take precedence over the original documents and all previous addenda (if any), and is appended thereto. **This Addendum includes 35 pages.**

Bidder is to acknowledge receipt of this Addendum No. 2, including all attachments (if any) in its Bid by so indicating on page ITB-1 of the Invitation to Bid Form. Bids submitted without acknowledgment of receipt of this addendum will be considered nonconforming.

The following forms provided within the ITB Document must be included in submitted bids at bid opening.

- City of Ann Arbor Prevailing Wage Declaration of Compliance
- City of Ann Arbor Living Wage Ordinance Declaration of Compliance
- Vendor Conflict of Interest Disclosure Form
- City of Ann Arbor Non-Discrimination Ordinance Declaration of Compliance

Bids that fail to provide these completed forms listed above upon bid opening will be rejected as non-responsive and will not be considered for award.

I. CORRECTIONS/ADDITIONS/DELETIONS/CLARIFICATIONS

Changes to the Bid documents outlined below are referenced to a page or Section in which they appear conspicuously. The Bidder is to take note in its review of the documents and include these changes as they may affect work or details in other areas not specifically referenced here.

Item #1: Pre-Bid Conference Summary and Attendance Record/Sign-In Sheet pages Addendum-2-3 thru Addendum-2-5.

Item #2: Bid Forms, pages BF-1 thru BF-8; replace these pages with attached pages Addendum-2-6 thru Addendum-2-8.

Item #3: Detailed Specification for General Conditions pages DS-1 to DS-2; replace with attached pages Addendum-2-9 and Addendum-2-10.

Item #4: Detailed Specification for Project Supervision pages DS-3 to DS-6; replace with attached pages Addendum-2-11 thru Addendum-2-14.

Item #5: Insert Detailed Specification for Resident Notification page Addendum-2-15.

Item #6: Detailed Specification for Project Schedule including the “Project Schedule of Streets” pages DS-11 to DS-13; replace with attached pages Addendum-2-16 thru Addendum-2-18.

Item #7: Detailed Specification for Micro-surfacing pages DS-16 to DS-17; replace with attached pages Addendum-2-19 and Addendum-2-20.

Item #8: Replace in Appendix “Project Listing of Streets” pages Addendum-2-21 and Addendum-2-22.

Item #9: Include in Appendix “Project Log” pages Addendum-2-23 and Addendum-2-34.

Item #10: Include in Appendix “Project Map” page Addendum-2-35.

Bidders are responsible for any conclusions that they may draw from the information contained in the Addendum.

Street Surface Treatments – 2017 (ITB No. 4478)

Pre-Bid Conference Agenda

May 12, 2017, 11:00 a.m.,
4th Floor Conference Room, Larcom Building - City Hall

I. Introductions

II. General

a. Project Overview

The proposed project consists of work citywide that comprises approximately 6 miles of major and local streets or approximately 215,000 square yards of treatments. The current project schedule will span a small portion of City's 2017 fiscal year ending June 30, 2017, and all of its 2018 fiscal year from July 1, 2017, through June 30, 2018.

Bid Opening – Project bids are due on Monday, May 22, 2017, by 10:00 a.m., and the responsible low bidder and all subcontractors assigned to the Bid must be MDOT Prequalified in order to receive award of the Contract.

b. Bid Document

i. Construction Specifications (MDOT 2012 Standard Specifications for Construction)

ii. Project Schedule

The project includes two (2) separate phases aligning with the City's fiscal years 2017 and 2018 and the availability of funding. The "Schedule of Streets" shows the proposed work locations and scheduling requirements/restrictions. Below are the timeframes for each phase; the contract will allow the work to roll from Phase 1 directly into Phase 2.

Starting and Completion Dates

➤ Phase 1 – June 15 thru June 30, 2017

➤ Phase 2 – July 1, 2017 thru June 30, 2018

- Hours of Work: 7:00 am – 8:00 pm Monday thru Saturday (Sundays w/approval)

iii. General Conditions

Attention was given to this Detailed Specification, and those in attendance work were advised to review its requirements. Modification to this Detailed Specification are forthcoming to revise certain items as they do or do not apply to this contract. An addendum will address the revised Detailed Specification.

iv. Project Supervision

Attention was given to this Detailed Specification, and those in attendance work were advised to review its requirements.

v. NEW PAY ITEM – Certified Payroll Compliance and Reporting

Attention was given to this Detailed Specification, and those in attendance work were advised to review its requirements. Davis Bacon wages rates will apply unless otherwise specified by the contract. The applicable wage decision is the one in affect 10 days prior to the bid date and it is not in the bid documents.

vi. Project Log/Listing of Streets (Major and Minor/Local Streets by Phase)

The appendix contains a "Project Listing of Streets" applicable to this project. A log identifying the estimated quantities and pay items of work related to each street location is under development. An addendum will address this project log.

Street Surface Treatments – 2017 (ITB No. 4478)

III. Construction

- a. Maintenance of Traffic (lane closures/opening to traffic, local traffic access...)

All work on Major Streets as part this year project will require maintenance of traffic on one lane in both directions or the utilization of flag control. There are no planned detours. The bid documents include the applicable MDOT Maintenance of Traffic Typical.

- b. Permits (Right-of-Way, Lane Closure(s)...))

The successful bidder will obtain a Right-of-Way permit with the City prior to the starting any project work. The City will issue press releases regarding the maintenance of traffic on the major street; however, in special circumstances it may also require the successful bidder to obtain a Lane Closure permit to perform its work.

- c. Special Concerns (pedestrian access, notifications to residents/property owners...)

The successful bidder will maintain access for pedestrians and to residences/businesses at all times to the full extent possible. It will also notify property owners in advance of the work. A Detailed Specification addressing these notifications is under developments for issuance in an addendum.

- d. Crack Treatment Project Coordination

This project will require coordination with the City's Crack Treatment project, which will be occurring at the same time. The proposed crack treatment work on minor (local) streets in Area 1 and Area 2 as shown on the "Project Listing of Streets" will need to occur in advance of any surface treatment work.

IV. Addendum Items

No addenda have been issued to date for this project; however, Addendum 1 is expected to be released by Tuesday, May 16, 2017, or Wednesday, May 17, 2017, at the latest unless other necessary revisions are encountered requiring its release be delayed further. This addendum will address the aforementioned items, the Pre-Bid Conference Summary, a map of the project street locations, and any other items brought to the City's attention. All questions related to the bid are due by 5:00 p.m., Monday, May 15, 2017.

V. Other Items/Questions

- 1. What wage rates will apply to this contract? Davis Bacon wages rates will apply unless otherwise specified by the contract (see Detailed Specification for Certified Payroll Compliance and Reporting). The applicable wage decision is the one in affect 10 days prior to the bid date and it is not in the bid documents.*
- 2. Can project phases could run together consecutively? Yes, the project successful bidder can schedule the work in both phases to run together consecutively although none of the work identified for Phase 2 may start prior to July 1, 2017.*
- 3. Is trap rock required for micro-surfacing? No, the Mirco-Surface, Modified specifies the use of that aggregate material. The contract work does not include this item of work.*
- 4. Will the City permit local street closures? Yes; however, only as required to perform the necessary work, and only after notifying all residents/property owners of the details fo the closure.*

Contact Information:

David Dykman
Project Manager
Phone: (734) 794-6410 ext. 43685
Fax: (734) 994-1744
E-mail: ddykman@a2gov.org

PRE-BID CONFERENCE SIGN-IN SHEET

PROJECT: STREET SURFACE TREATMENTS - 2017 (ITB No. 4478)

DATE: 05/12/2017

PLEASE PRINT

NAME	REPRESENTING	MAILING ADDRESS	TELEPHONE	EMAIL
David Dykman Project Manager	City of Ann Arbor - Project Management	Address: 301 E. Huron Street, P.O. Box 8647 City, State: Ann Arbor, MI Zip: 48107-8647	Office: (734) 794-6410, x43685 Mobile: Fax: (734) 994-1744	ddykman@a2gov.org
Gary Shively Civil Engineering Specialist (Project Inspector)	City of Ann Arbor - Project Management	Address: 301 E. Huron Street, P.O. Box 8647 City, State: Ann Arbor, MI Zip: 48107-8647	Office: (734) 794-6410, x43652 Mobile: Fax: (734) 994-1744	gshively@a2gov.org
David Clemons Supervisor - Civil Engineering Specialists	City of Ann Arbor - Project Management	Address: 301 E. Huron Street, P.O. Box 8647 City, State: Ann Arbor, MI Zip: 48107-8647	Office: (734) 794-6410, x43612 Mobile: Fax: (734) 994-1744	dclemons@a2gov.org
ANDREW FRIEND	STRASER	Address: 1392 DUBEAU RD City, State: COLUMBUS, OH Zip: 43215	Office: (614) 804-8782 Mobile: () Fax No. ()	andrewfriend@a straserconsult.com
		Address: _____ City, State: _____ Zip: _____	Office: () Mobile: () Fax No. ()	
		Address: _____ City, State: _____ Zip: _____	Office: () Mobile: () Fax No. ()	
		Address: _____ City, State: _____ Zip: _____	Office: () Mobile: () Fax No. ()	
		Address: _____ City, State: _____ Zip: _____	Office: () Mobile: () Fax No. ()	

BID FORM

Section 1 - Schedule of Prices

Street Surface Treatments - 2017

File No. 2016-020

Bid No. 4478

<u>Line No.</u>	<u>Item No.</u>	<u>Item Description</u>	<u>Unit</u>	<u>Estimated Quantity</u>	<u>Unit Price</u>	<u>Total Price</u>
10	1047051	_General Conditions, Max \$15,000.00	LSUM	1.000	\$ _____	\$ _____
15	1047051	_Project Supervision, Max \$25,000.00	LSUM	1.000	\$ _____	\$ _____
20	1047051	_Certified Payroll Compliance and Reporting	LSUM	1.000	\$ _____	\$ _____
25	1047051	_Resident Notification	LSUM	1.000	\$ _____	\$ _____
30	2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	128.000	\$ _____	\$ _____
35	2090001	Project Cleanup	LSUM	1.000	\$ _____	\$ _____
40	50107011	Cold Milling HMA Surface, Modified	Syd	12,080.660	\$ _____	\$ _____
45	5040005	Micro-Surface, Rutfilling	Ton	102.000	\$ _____	\$ _____
50	5047011	Micro-Surface, Single Course	Syd	175,134.111	\$ _____	\$ _____
55	5047011	Micro-Surface, Single Course, Nighttime Work	Syd	30,919.679	\$ _____	\$ _____
60	5057011	Seal, Single Chip, Modified	Syd	83,351.920	\$ _____	\$ _____
65	5067011	Seal, Slurry, Modified	Syd	102,313.705	\$ _____	\$ _____
70	5017031	Hand Patching, Modified	Ton	2,081.124	\$ _____	\$ _____
75	8110049	Pavt Mrkg, Ovly Cold Plastic, Direction Arrow Sym, Bike	Ea	51.000	\$ _____	\$ _____
80	8110058	Pavt Mrkg, Ovly Cold Plastic, Bike, Small Sym	Ea	54.000	\$ _____	\$ _____
85	8110079	Pavt Mrkg, Ovly Cold Plastic, Sharrow Symbol	Ea	3.000	\$ _____	\$ _____
90	8110520	Pavt Mrkg, Wet Retrflc Thermopl, 4 inch, White	Ft	20,005.000	\$ _____	\$ _____
95	8110521	Pavt Mrkg, Wet Retrflc Thermopl, 6 inch, White	Ft	21,819.000	\$ _____	\$ _____
100	8110524	Pavt Mrkg, Wet Retrflc Thermopl, 4 inch, Yellow	Ft	81,551.000	\$ _____	\$ _____
105	8110332	Rem Raised Pavt Marker	Ea	117.000	\$ _____	\$ _____
110	8110343	Rem Spec Mrkg	Sft	6,135.000	\$ _____	\$ _____
TOTAL THIS PAGE						\$ _____

BID FORM

Section 1 - Schedule of Prices

Street Surface Treatments - 2017

File No. 2016-020

Bid No. 4478

<u>Line No.</u>	<u>Item No.</u>	<u>Item Description</u>	<u>Unit</u>	<u>Estimated Quantity</u>	<u>Unit Price</u>	<u>Total Price</u>
115	8117001	_Pavt Mrkg, Wet Retrflec Thermopl, 6 inch, Crosswalk	Ft	500.000	\$ _____	\$ _____
120	8117001	_Pavt Mrkg, Wet Retrflec Thermopl, 12 inch, Crosswalk	Ft	5,789.000	\$ _____	\$ _____
125	8117001	_Pavt Mrkg, Wet Retrflec Thermopl, 12 inch, Cross Hatching, Yellow	Ft	1,290.000	\$ _____	\$ _____
130	8117001	_Pavt Mrkg, Wet Retrflec Thermopl, 24 inch, Stop Bar	Ft	1,157.000	\$ _____	\$ _____
135	8117001	_Pavt Mrkg, Wet Retrflec Thermopl, 4 inch, Parking Sym, White	Ft	56.000	\$ _____	\$ _____
140	8117050	_Pavt Mrkg, Wet Retrflec Thermopl, Lt Turn Arrow Sym	Ea	68.000	\$ _____	\$ _____
145	8117050	_Pavt Mrkg, Wet Retrflec Thermopl, Rt Turn Arrow Sym	Ea	27.000	\$ _____	\$ _____
150	8117050	_Pavt Mrkg, Wet Retrflec Thermopl, Thru Arrow Sym	Ea	14.000	\$ _____	\$ _____
155	8117050	_Pavt Mrkg, Wet Retrflec Thermopl, Thru and Rt Turn Arrow Sym	Ea	8.000	\$ _____	\$ _____
160	8117050	_Pavt Mrkg, Wet Retrflec Thermopl, Thru and Lt Turn Arrow Sym	Ea	4.000	\$ _____	\$ _____
165	8117050	_Pavt Mrkg, Wet Retrflec Thermopl, Only	Ea	46.000	\$ _____	\$ _____
170	8117050	_Pavt Mrkg, Wet Retrflec Thermopl, Railroad Sym	Ea	2.000	\$ _____	\$ _____
175	8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	213.000	\$ _____	\$ _____
180	8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	213.000	\$ _____	\$ _____
185	8120030	Channelizing Device, 42 inch, Furn	Ea	2,448.000	\$ _____	\$ _____
190	8120031	Channelizing Device, 42 inch, Oper	Ea	2,448.000	\$ _____	\$ _____
195	8120140	Lighted Arrow, Type C, Furn	Ea	22.000	\$ _____	\$ _____
200	8120141	Lighted Arrow, Type C, Oper	Ea	22.000	\$ _____	\$ _____
205	8120160	Ltg for Night Work	LSUM	1.000	\$ _____	\$ _____
210	8120210	Pavt Mrkg, Longit, 6 inch or Less Width, Rem	Ft	123,431.000	\$ _____	\$ _____
215	8120211	Pavt Mrkg, Longit, Greater than 6 inch Width, Rem	Ft	8,236.000	\$ _____	\$ _____
TOTAL THIS PAGE						\$ _____

BID FORM

Section 1 - Schedule of Prices

Street Surface Treatments - 2017
File No. 2016-020
Bid No. 4478

<u>Line No.</u>	<u>Item No.</u>	<u>Item Description</u>	<u>Unit</u>	<u>Estimated Quantity</u>	<u>Unit Price</u>	<u>Total Price</u>
220	8120235	Pavt Mrkg, Wet Retrflec, Type NR, Paint, 4 inch, White, Temp	Ft	20,005.000	\$ _____	\$ _____
225	8120236	Pavt Mrkg, Wet Retrflec, Type NR, Paint, 4 inch, Yellow, Temp	Ft	81,551.000	\$ _____	\$ _____
230	8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	1,246.000	\$ _____	\$ _____
235	8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	1,246.000	\$ _____	\$ _____
240	8120280	Raised Pavt Marker, Temp, Type 1, White, Monodirectional	Ea	400.000	\$ _____	\$ _____
245	8120281	Raised Pavt Marker, Temp, Type 1, Yellow, Bidirectional	Ea	1,632.000	\$ _____	\$ _____
250	8120310	Sign Cover	Ea	75.000	\$ _____	\$ _____
255	8120330	Sign, Portable, Changeable Message, Furn	Ea	8.000	\$ _____	\$ _____
260	8120331	Sign, Portable, Changeable Message, Oper	Ea	43.000	\$ _____	\$ _____
265	8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	6,622.000	\$ _____	\$ _____
270	8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	6,622.000	\$ _____	\$ _____
275	8120370	Traf Regulator Control	LSUM	1.000	\$ _____	\$ _____
280	8127050	_No Parking Sign	Ea	125.000	\$ _____	\$ _____
285	8127051	_Minor Traffic Control, Max \$10,000.00	LSUM	1.000	\$ _____	\$ _____
290	8507022	Polymerized Emulsion Pavement Repair	Gal	125.000	\$ _____	\$ _____
TOTAL THIS PAGE						\$ _____
TOTAL FROM PAGE BF-1						\$ _____
TOTAL FROM PAGE BF-2						\$ _____
TOTAL BASE BID						\$ _____

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
GENERAL CONDITIONS

AA:DAD

1 of 2

05/23/17

a. Description. This item shall include all work described and required by the Plans and Specifications at each location for which no item of work is listed in the Bid Form, including but not limited to:

- Scheduling, coordination, and organization of all work, subcontractors, suppliers, testing, inspection, surveying, and staking.
- Coordination of, and cooperation with, other contractors, agencies, departments, and utilities.
- Protection and maintenance of utilities.
- Maintaining drainage.
- Maintaining driveways drive openings, sidewalks, bike paths, mail deliveries, and solid waste/recycle pick-ups. This includes the placement and maintenance of gravel in driveway openings as directed by the Engineer.
- Storing all materials and equipment off lawn areas.
- Temporary relocation and final replacement/re-setting of mailboxes.
- Coordination efforts to furnish various surface treatment mixtures as directed by the Engineer
- Coordination efforts to furnish and operate various-size vehicles/equipment as directed by the Engineer
- Furnishing and operating vacuum-type street cleaning equipment a minimum of once per week or more frequently as directed by the Engineer
- Furnishing and operating vacuum-type utility structure cleaning equipment
- Furnishing and operating both vibratory plate and pneumatic-type (“pogo-stick”) compactors
- Furnishing and operating a backhoe during all work activities
- Furnishing and operating a jackhammer and air compressor during all work activities
- Noise and dust control
- Mobilization(s) and demobilization(s).
- Furnishing submittals and certifications for materials and supplies
- All miscellaneous and incidental items such as overhead, insurance, and permits.
- Meeting all requirements relating to Debarment Certification, Davis Bacon Act, and Disadvantaged Business Enterprise, and providing the necessary documentation.

Data pertaining to existing soil borings and pavement sections, which are included in the Appendix of these Contract Documents, are provided to help the Engineer and Contractor determine the soil conditions existing within the construction area. The City in no way

guarantees existing conditions to be the same as shown in the data. The Contractor is solely responsible for any and all conclusions he/she may draw from the data.

Quantities as given are approximate and are estimated for bidding purposes. Quantities are not guaranteed and may vary by any amount. While it is the City's intent to complete the project substantially as drawn and specified herein, quantities may be changed or reduced to zero for cost savings or other reasons. **The City reserves the right to change the quantities, and no adjustment in unit price will be made for any change in any quantity.**

b. Materials. None Specified.

c. Construction. Not specified.

d. Measurement and Payment. The completed work, as described, will be measured and paid for at the contract unit price for the following pay item:

Pay Item

Pay Unit

General Conditions, Max \$_____Lump Sum

This item of work will be paid for on a pro rata basis at the time of each progress payment. Measurement will be based on the ratio between work completed during the payment period and the total contract amount. When all of the work of this Contract has been completed, the measurement of this item shall be 1.0 Lump Sum, minus any deductions incurred for inadequate performance as described herein. This amount will not be increased for any reason, including extensions of time, extras, and/or additional work.

The unit price for this item of work shall include all labor, material, and equipment costs to perform all the work specified in the Standard Specifications and as modified by this Detailed Specification.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
PROJECT SUPERVISION

AA:DAD

1 of 4

05/11/17

a. Description. The Contractor shall provide supervision in accordance with the City of Ann Arbor Standard Specifications, subsections 104.07 and 107.15 of the Michigan Department of Transportation (MDOT) 2012 Standard Specifications for Construction, and as described herein.

The Contractor shall designate a full-time Project Supervisor to act as the Contractor's agent/representative, and to be responsible for scheduling and coordination of all subcontractors, suppliers, other governmental agencies, and all public and private utility companies.

The Project Supervisor shall not be an active crew member of the Contractor, shall not be an active member or employee of any subcontractor's work force, and shall not perform general or specialized labor tasks. The Project Supervisor shall be a full-time employee of the General Contractor and shall have all needed authority to make binding decisions on behalf of the Contractor in all matters pertaining to performance and execution of the work of the project.

The Project Supervisor shall work exclusively on this project, and shall put forth his/her full effort into the organization and coordination of the work of this project.

One week prior to the pre-construction meeting, the Contractor shall designate a proposed Project Supervisor by name, and shall furnish the Engineer with a current, thorough, detailed summary of the proposed Project Supervisor's work history, outlining all previous supervisory experience on projects of a similar size and nature. The detailed work history shall include personal and professional references (names and phone numbers) of persons (previous owners or agents) who can attest to the qualifications and work history of the proposed Project Supervisor. Proposed candidates for Project Supervisor shall have a demonstrated ability to work harmoniously with the Engineer, the City, the public, subcontractors, and all other parties typically involved with work of this nature. The Engineer will have the authority to reject a proposed Project Supervisor whom he/she considers unqualified.

The Project Supervisor shall be available 24 hours-per-day to provide proper supervision, coordination and scheduling of the project for the duration of the Contract. The Contractor shall furnish the City with telephone numbers of the Project Supervisor in order to provide 24 hour-per-day access during business and non-business hours, including weekends and holidays.

The Project Supervisor shall be equipped by the Contractor with a "smart" mobile telephone with "data" and "text" capabilities to provide the City with 24 hour-per-day access to him/her during daily construction activities, during transit to and from the construction site, and during all non-business hours including weekends and holidays.

The Project Supervisor shall be equipped with assistants as necessary to provide project supervision as specified herein, and in accordance with the Contract.

1. Duties and Responsibilities. The Project Supervisor shall work harmoniously with the Engineer, the City, the public, subcontractors, and all other parties typically involved with work of this nature.

The Project Supervisor shall have a thorough, detailed understanding and working knowledge of all construction practices and methods specified elsewhere herein, as well as the handling, placement, testing and inspection of aggregates, aggregate products, bituminous concrete, Portland cement concrete materials, and other such materials and products related to the work of this project.

The Project Supervisor shall be responsible for all of the work of all of the Contractor's, subcontractors' and suppliers' work forces.

The Project Supervisor shall be responsible for proper and adequate maintenance (emissions, safety, and general operation) of all of the Contractor's, subcontractors' and suppliers' equipment and vehicles. The Project Supervisor shall make all needed diligent and good-faith efforts to ensure that all equipment utilized in the performance of the work is properly maintained, safe, and complies with all legal and environmental requirements of the work as set forth in section 107.15 of the MDOT 2012 Standard Specifications for Construction.

The Project Supervisor shall be responsible for the legal, proper and safe parking/storage of all of the Contractor's, subcontractors' and suppliers' equipment, work vehicles, and employee's vehicles.

The Project Supervisor shall schedule and coordinate the work of all parties involved in the project, including utility companies, testing agencies, governmental agencies, all City departments (such as Utilities and Transportation), and City inspectors.

The Project Supervisor shall coordinate and schedule the work of any independent survey crews that may be retained by the Engineer or City to witness and reset existing and new geographic/benchmark monuments. Failure to have existing monuments witnessed and reset may result in delays to the Contractor's work. Costs for such delays will be the Contractor's sole responsibility. The Project Supervisor shall also schedule and complete all needed survey request forms that are needed in order to schedule the services of survey personnel to properly layout all elements of the project work in accordance with the City of Ann Arbor Public Services Area Standard Specifications and the MDOT 2012 Standard Specifications for Construction.

The Project Supervisor shall coordinate and schedule inspection performed by the City and Consultants (including material testing firms) in a timely manner, to assure proper and timely testing and inspection of the work.

The Project Supervisor shall submit to the Engineer, an updated, detailed schedule of the proposed work on a weekly basis, and an update of all proposed changes on a daily basis.

The Project Supervisor and all subcontractors shall attend a weekly progress meeting chaired by the Engineer to discuss the work. Upon the completion of each meeting, the Engineer shall prepare and distribute, to all present, a written summary of the meeting's

minutes. Those in attendance shall review the minutes and, if necessary, comment on any deficiencies or errors prior to or at the next scheduled progress meeting.

2. **Additional Performance Requirements.** If, in the sole opinion of the Engineer, the Project Supervisor is not adequately performing the duties as outlined in this Special Provision, the following system of notices will be given to the contractor with the associated penalties:

First Notice – A warning will be issued in writing to the Contractor detailing the deficiencies in the Project Supervision. The Contractor must respond within 7 calendar days in writing with a plan to correct the stated deficiencies. Failure to respond within 7 calendar days will result in the issuing of a second notice.

Second Notice – A second warning will be issued in writing to the contractor further detailing the deficiencies in the Project Supervision. A deduction of 10%, or \$10,000, whichever is greater, will be made from the original Project Supervision contract amount. The Contractor must respond within 7 calendar days in writing with a plan to correct the stated deficiencies. Failure to respond within 7 calendar days will result in the issuing of a third notice. At this time, the Engineer reserves the right to meet with personnel with the necessary authority within the Contractor's organization to discuss the deficiencies in the Project Supervision.

Third Notice – A third notice will be issued in writing to the Contractor further detailing the deficiencies in the Project Supervision. An additional deduction of 25%, or \$25,000, whichever is greater, will be made from the original Project Supervision contract amount, and the Project Supervisor shall be removed from the project, and replaced immediately with another individual to be approved by the Engineer.

Should, in the sole opinion of the Engineer, the Project Supervisor fail to perform his/her duties and responsibilities as described herein to such a degree that the successful completion of the project is put in jeopardy, the above system of notices may be foregone, and the Contractor shall immediately replace the Project Supervisor upon receipt of written notice. Failure to provide adequate project supervision, as determined by the Engineer, shall be considered basis for the Engineer to suspend work without extension of contract time or additional compensation.

If the original Project Supervision contract amount is insufficient to cover said deductions, the Project Supervision contract amount will be reduced to zero and a contract modification will be written to assess a penalty to cover the difference between the Project Supervision contract amount and the total amount of the deduction(s). It is fully expected however that the Project Supervision contract amount will be sufficient to cover any deductions.

b. Materials. None Specified.

c. Construction. Not specified.

d. Measurement and Payment. The completed work, as described, will be measured and paid for at the contract unit price for the following pay item:

Pay Item

Pay Unit

Project Supervision, Max \$____Lump Sum

The unit price for this item of work shall include all labor, material, and equipment costs to perform all the work specified in the Standard Specifications, and as modified by this Detailed Specification.

Payment for this work will be made with each progress payment, on a pro rata basis, based on the percentage of construction completed. When all of the work of this Contract has been completed, the measurement of this item shall be 1.0 times the Lump Sum bid amount, minus any deductions incurred for inadequate performance as described herein. This amount will not be increased for any reason, including extensions of time, extras, adjustments and/or additional work.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
RESIDENT NOTIFICATION

AA:DAD

1 of 1

05/23/17

a. Description. This work consists of notifying in writing all affected residents and/or property/business owners of any proposed surface treatment work on all major and minor (local) City streets, unless otherwise directed by the Engineer. Provide written notification with the following information:

1. Date of notification to affected residents.
2. The nature and duration of the planned work, disruption, and/or closure.
3. Request resident and/or property/business owner not to park on street during the planned work operation.
4. The name, address and telephone numbers of the Contractor, the Engineer, and appropriate City departments.

At the preconstruction meeting or no later than seven (7) business days prior to commencement of any contract work, submit to the Engineer for approval a notification plan (including the proposed written notification).

No construction will begin for work where written notification to is not complete. The Engineer will not give any consideration to claim(s) for contract extension of time resulting from failure to fulfill the requirements of the detailed specification.

b. Materials. None specified.

c. Construction. At least 48 hours in advance of any crack treatment work distribute approved notices to affected residents and/or property/business owners within the planned work limits.

d. Measurement and Payment. The completed work, as described, will be measured and paid for at the contract price for the following pay item:

<u>Pay Item</u>	<u>Pay Unit</u>
Resident Notification	Lump Sum

The contract price includes all preparation, labor, materials, and equipment needed to accomplish this work.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
PROJECT SCHEDULE

AA:DAD

1 of 2

05/22/17

Complete the entirety of work under this Contract in accordance with, and subject to, the scheduling requirements as outlined below, and all other requirements of the Contract Documents.

Organize, coordinate and diligently execute the work at the locations shown on the Schedule of Streets included herein. This schedule details the requirements, if any, for the Start of Work (on or after dates specified), the Completion of Work (on or before dates specified), Restricted Dates, the Maximum Calendar Days for Completion, and the Liquidated Damages per Calendar Day for each street. For the purpose of this Contract, the "Start of Work" definition is the date when either the "No-Parking" signs or the temporary traffic control measures become effective, whichever occurs first. The definition of the "Completion of Work" is the point in time when all work designated for a project location is complete. This includes, but is not limited to, placement of permanent pavement markings, clean-up, street cleaning, underground utility and utility structure cleaning, the removal of all temporary traffic control devices and "No Parking" signs, and other necessary work and as directed by the Engineer.

The Engineer shall limit the Contractor's work operations to a number of streets that, in the opinion of the Engineer, is reasonable to allow for proper and thorough inspection, and to reduce traffic control and/or safety problems. The contractor shall not have more than two (2) locations "active" at any given time with a maximum of one (1) of those locations being a Major Street. A location is "active" if work on the street has begun, and it has not yet complete. Regard combined streets or an "Area" as shown on the Schedule of Streets as one (1) location.

The City expects to furnish the Contractor with two (2) copies of the Contract, for its execution, on or before **June 1, 2017**. The Contractor shall properly execute both copies of the Contract and return them, with the required Bonds and Insurance documentation, to the City by **June 20, 2017**. The Contractor shall not begin the work before the applicable date(s) as described herein without approval from the Project Engineer, and in no case before the receipt of the fully executed Contract and Notice to Proceed.

By no later than **June 26, 2017**, the Contractor shall submit a detailed schedule of work (project work schedule) for the Engineer's review and approval. This schedule must fully comply with the scheduling requirements contained in this Detailed Specification, and shall include a beginning date and completion date for each phase of the project. The schedule of streets where crack treatments are to be applied will be in a systematic manner. Once work is started it will continue until all available streets scheduled for crack treatments at that time are complete. Work shall not start until the project work schedule is approved in writing by the Engineer. The Contractor shall update the approved project work schedule each week, unless otherwise as directed by the Engineer.

The Contractor shall begin the work of this project on or before **July 5, 2017**, and only upon receipt of the fully executed Contract and Notice to Proceed. Appropriate time extensions shall be granted if the Notice to Proceed is delayed beyond this date.

The entire project shall be complete on or before **June 30, 2018**.

Failure to complete all work as specified, within the times specified, including time extensions granted thereto as determined by the Engineer, shall entitle the City to deduct from the payments due the Contractor **\$500.00** in "Liquidated Damages", and not as a penalty, for each and every calendar day the work remains incomplete beyond the dates specified. Liquidated Damages will be assessed until the required work is completed in the current construction season. If, with the Engineer's approval, work is extended beyond seasonal limitations, the assessment of Liquidated Damages will be discontinued until the work is resumed in the following construction season.

Time is of the essence in the performance of the work of this Contract. The Contractor is expected to mobilize sufficient personnel and equipment, and work throughout all authorized hours to complete the project by the required completion dates. It is anticipated the Contractor may need to make one or more trips within each phase to complete the work in accordance with the approved project work schedule. The Contractor shall provide a minimum of three (3) working notice to the Engineer prior to mobilizing for each trip. Should the Contractor demonstrate that they must work on some Sundays in order to maintain the project schedule, they may only do so with prior approval from the City and only during the hours designated by such approval. There will be no additional compensation due to the Contractor for work performed on Sundays.

The Engineer may delay or stop the work due to threatening weather conditions. The Contractor shall not be compensated for unused materials or downtime due to rain, or the threat of rain. The Contractor is solely responsible for repairing all damages to the work and to the site, including road infrastructures, road subgrades, and any adjacent properties, which are caused as a result of working in the rain.

The Contractor shall not work in the dark except as approved by the Engineer and only when lighting for night work is provided as detailed elsewhere in this contract. The Engineer may stop the work, or may require the Contractor to defer certain work to another day, if, in the Engineer's opinion, the work cannot be completed within the remaining daylight hours, or if inadequate daylight is present to either properly perform or inspect the work. The Contractor will not be compensated for unused materials or downtime, when delays or work stoppages are directed by the Engineer for darkness and/or inadequate remaining daylight reasons. The Contractor is solely responsible for repairing all damages to the work and to the site, including road infrastructures, road subgrades, and any adjacent properties, which are caused as a result of working in the dark.

If the construction contract is not completed within the specified period(s) including any extensions of time granted thereto, at the sole discretion of the City of Ann Arbor, this Contract may be terminated with no additional compensation due to the Contractor, and the Contractor may be forbidden to bid on future City of Ann Arbor projects for a period of at least three (3) years. If the Engineer elects to terminate the Contract, contract items paid for on a Lump Sum basis shall be paid up to a maximum percentage equal to the percentage of the contract work that has been completed.

The City's decision to delete streets, add streets, change the construction limits on streets, or, the City's contribution to a delay of the construction on any one street shall not entitle the Contractor to receive additional compensation for work on any other street(s), nor shall it relieve the Contractor of any responsibilities for completion of work on any other street(s).

Costs for the Contractor to organize, coordinate, and schedule all of the project work will not be paid for separately, but shall be included in the bid price of other pay items under the contract.

Street Surface Treatments – 2017

Project Schedule of Streets

Location (Street)	Limits of Work	Start of Work	Completion of Work	Restricted Dates	Maximum Calendar Days for Completion	Liquidated Damages per Calendar Day
Ann Arbor-Saline Road	W Eisenhower Pkwy/ Brookfield Dr to S Main St			AAAF, LABR, MMRL, UMFB, UMSM	15	\$500.00
North Maple Road	Dexter Ave to Foss St			AAAF, LABR, MMRL	15	\$500.00
Platt Road	Ellsworth Rd to Packard Rd			AAPS, LABR, MMRL	15	\$500.00
South Huron Parkway	Washtenaw Ave to Southerly End of Huron River Bridge			CAA1, LABR, MMRL	30	\$500.00
South Main Street - 1	W Eisenhower Pky to Ann Arbor-Saline Rd			CAA2, LABR, MMRL, UMFB, UMSM	24	\$500.00
South Main Street - 2	Ann Arbor-Saline Rd to E Stadium Blvd/W Stadium Blvd			CAA2, LABR, MMRL, UMFB, UMSM	24	\$500.00
South Main Street - 3	E Stadium Blvd/W Stadium Blvd to E William St/W William St			CAA2, LABR, MMRL, UMFB, UMSM	24	\$500.00
West Stadium Boulevard	Pauline Blvd to S Maple Rd			AAAF, LABR, MMRL,NTW, UMFB, UMSM	24	\$500.00
Area No. 1	See Street Surface Treatments Project Location List and Map			LABR, MMRL	15	\$500.00
Area No. 2	See Street Surface Treatments Project Location List and Map			LABR, MMRL	15	\$500.00
Area No. 3	See Street Surface Treatments Project Location List and Map			LABR, MMRL	10	\$500.00

AAAF – No work permitted from July 20, 2017 thru July 23, 2017 due to the Ann Arbor Street Art Fairs.

AAPS – No work permitted when Ann Arbor Public Schools are in session (before June 19, 2017 or after September 1, 2017).

CAA1 – No work permitted until the City of Ann Arbor Huron Parkway Segmental Block Wall Rehabilitation Project is complete (anticipated by July 30, 2017).

CAA2 – No work permitted until the City of Ann Arbor East Stadium Boulevard construction project is open to traffic (anticipated by August 15, 2017).

LABR – No work during the Labor Day holiday period from 3:00 p.m. September 1 to 7:00 a.m. September 5, 2017.

MMRL – No work during the Memorial Day holiday period from 3:00 p.m. May 26 to 7:00 a.m. May 30, 2017.

NTW – Nighttime Work: Perform all work between the hours of 7:00 p.m. and 6:00 a.m., Monday thru Friday.

UMFB – No work permitted on University of Michigan Football home game days.

Notes:

1. Upon starting work on the Minor (Local) streets in Areas 1, 2, and 3, perform all work in each area until it is complete and before starting work on a new area.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
MICRO-SURFACING

AA:DAD

1 of 2

05/23/17

a. Description. This work consists of preparing existing pavement and providing and placing a micro-surfacing mixture in accordance with section 504 of the Michigan Department of Transportation (MDOT) 2012 Standard Specifications for Construction, as directed by the Engineer, and as described herein.

b. Materials. Provide materials in accordance with subsection 504.02 of the MDOT 2012 Standard Specifications for Construction with the following modification.

1. Add the following to subsection 504.02.A of the MDOT 2012 Standard Specifications for Construction.

A. Screen 2FA fine aggregate used for micro-surfacing at the project site to ensure aggregate being introduced into the micro-surface mixture is not larger than the top size aggregate allowed in the mix design. Screen aggregate directly into the material transport units or micro-surface machine(s). Use aggregate screening unit capable of producing adequate tonnage to maintain project production in accordance with subsection 504.03.

2. Use CSS-1hM asphalt emulsion for micro-surfacing mixtures. The emulsified asphalt must conform to certification procedures described in the MDOT *Materials Quality Assurance Procedures Manual*.

c. Construction. Ensure all construction is in accordance with subsection 504.03 of the MDOT 2012 Standard Specifications for Construction with the following modifications.

1. Add the following to subsection 504.03.C of the MDOT 2012 Standard Specifications for Construction.

A. Use a pick-up sweeper to perform any sweeping required to prepare the existing surface.

2. Add the following to subsection 504.03.D of the MDOT 2012 Standard Specifications for Construction.

A. Take extreme care not to place micro-surface mixture on any concrete curb and gutter.

Conduct nighttime work between the hours of 7:00 p.m. and 6:00 a.m. at the locations shown on the "Project Schedule of Street" and in the "Project Log". The Engineer may allow nighttime work at other locations with seven (7) day notification to the Engineer, and only after authorization by the City.

d. Measurement and Payment. The completed work, as described, will be measured and paid for respectively at the contract unit prices for the following pay items:

Pay Item	Pay Unit
Micro-Surface, Standard	Square Yard
Micro-Surface, Single Course	Square Yard
Micro-Surface, Single Course, Nighttime Work.....	Square Yard

The unit prices for **Micro-Surface**, regardless of the type required, include the cost of surface preparation; applying a bond coat; stationing and the establishment of yield intervals; placing temporary pavement markings; corrective action and any traffic control related to it; any required materials sampling and testing; and documentation.

The unit price for **Micro-Surface, Standard** also includes the cost for all materials, equipment, and labor required to place the micro-surfacing mixtures including the application of a rut filling course, a leveling course, and a surface course for full width coverage.

The unit price for **Micro Surface, Single Course** also includes the cost for all materials, equipment, and labor required to place the micro-surfacing mixtures by applying a single course of mixture for full width coverage.

The unit price for **Micro Surface, Single Course, Nighttime Work** also includes the cost for all materials, equipment, and labor required to place the micro-surfacing mixtures by applying a single course of mixture for full width coverage during the hours of work specified. Lighting to conduct this work will be paid separately at the contract unit price for the pay item **Ltg for Night Work**.

The City will pay separately for temporary traffic control to place any mixture in accordance with the Detailed Specification for Maintaining Traffic, and removing pavement markings in accordance with subsection 812.04 of the MDOT 2012 Standard Specifications for Construction.

Street Surface Treatments - 2017

Project Listing of Streets

Street Name	Limits		Beginning Milepoint	Ending Milepoint	Length (miles)	Area (Syd)	Proposed Surface Treatment
	Beginning	Ending					
MAJOR STREETS							
Ann Arbor-Saline Road	W Eisenhower Pky/Brookfield Dr	S Main St	2.730	3.428	0.698	23,553.493	Micro-Surface, Single Course
North Maple Road	Dexter Ave	Foss St	2.077	3.038	0.961	24,689.222	**Cape Seal
Platt Road	E Ellsworth Rd	Packard Rd	10.160	11.177	0.952	24,169.644	Micro-Surface, Single Course
South Main Street - 1	W Eisenhower Pkwy	Ann Arbor-Saline Rd	0.000	0.805	0.805	20,734.111	**Cape Seal
South Main Street - 2	Ann Arbor-Saline Rd	E Stadium Blvd/W Stadium Blvd	0.000	0.498	0.657	19,944.556	Micro-Surface, Single Course
South Main Street - 3	E Stadium Blvd/W Stadium Blvd	E William St/W William St	0.498	1.454	0.956	24,114.498	Micro-Surface, Single Course
South Huron Parkway	Washtenaw Ave	S'y End of Huron River Bridge	0.389	1.658	1.353	37,928.587	**Cape Seal
West Stadium Boulevard	S Maple Rd	Pauline Blvd	0.000	0.882	0.882	30,919.679	Micro-Surface, Single Course
			MAJOR STREETS SUBTOTAL		7.264		
MINOR (LOCAL) STREETS							
AREA No. 1							
Birchwood Drive	Dhu Varren Rd	Hickory Point Dr/Birchwood Ct	0.000	0.304	0.304	5,890.133	Seal, Slurry, Modified
Birchwood Court	Birchwood Dr	Northerly End of Cul-de-Sac	0.304	0.375	0.071	1,166.293	Seal, Slurry, Modified
Canyon Court	Birchwood Dr	Westerly End of Cul-de-Sac	0.000	0.032	0.032	563.200	Seal, Slurry, Modified
Deer Creek Court	Foxway Dr	Southerly End of Cul-de-Sac	0.000	0.085	0.085	1,446.133	Seal, Slurry, Modified
Eagle Court	Hickory Point Dr	Southerly End of Cul-de-Sac	0.000	0.057	0.114	1,003.200	Seal, Slurry, Modified
Fairhaven Court	Foxway Dr	Northerly End of Cul-de-Sac	0.000	0.081	0.162	1,330.560	Seal, Slurry, Modified
Fawn Meadow Court	Foxway Dr	Northerly End of Cul-de-Sac	0.000	0.103	0.206	1,631.520	Seal, Slurry, Modified
Falcon Court	Hickory Point Dr	Southerly End of Cul-de-Sac	0.000	0.074	0.148	1,258.987	Seal, Slurry, Modified
Featherstone Court	Hickory Point Dr	Northerly End of Cul-de-Sac	0.000	0.053	0.106	870.613	Seal, Slurry, Modified
Foxway Drive	Birchwood Dr	Hickory Point Dr	0.000	0.599	1.198	10,148.160	Seal, Slurry, Modified
Foxway Court	Hickory Point Dr	Northerly End of Cul-de-Sac	0.599	0.652	0.053	870.613	Seal, Slurry, Modified
Hickory Point Drive	Birchwood Dr	Easterly Dead End	0.000	0.522	0.907	15,293.227	Seal, Slurry, Modified
Idlewild Court	Southerly End of Cul-de-Sac	Foxway Dr	0.000	0.040	0.040	657.067	Seal, Slurry, Modified
Indian Creek Circle	Hickory Point Dr	Westerly End of Cul-de-Sac	0.000	0.164	0.164	2,597.760	Seal, Slurry, Modified
Mallard Court	Foxway Dr	Easterly End of Cul-de-Sac	0.000	0.047	0.094	772.053	Seal, Slurry, Modified
Omlesaad Drive	Dhu Varren Rd	Hickory Point Dr	0.110	0.422	0.312	5,304.640	Seal, Slurry, Modified
Otter Creek Court	Hickory Point Dr	Northerly End of Cul-de-Sac	0.000	0.114	0.114	1,805.760	Seal, Slurry, Modified
Pinebluff Court	Hickory Point Dr	Northerly End of Cul-de-Sac	0.000	0.046	0.046	782.613	Seal, Slurry, Modified
Shamrock Court	Hickory Point Dr	Southerly End of Cul-de-Sac	0.000	0.066	0.132	1,084.160	Seal, Slurry, Modified
Spring Hollow Court	Foxway Dr	Northerly End of Cul-de-Sac	0.000	0.074	0.148	1,302.400	Seal, Slurry, Modified
Timbercrest Court	Birchwood Dr	Easterly End of Cul-de-Sac	0.000	0.137	0.274	2,330.827	Seal, Slurry, Modified
White Pine Court	Hickory Point Dr	Northerly End of Cul-de-Sac	0.000	0.034	0.068	558.507	Seal, Slurry, Modified
White Tail Run Court	Foxway Dr	Westerly End of Cul-de-Sac	0.000	0.041	0.082	697.547	Seal, Slurry, Modified
Woodhaven Court	Hickory Point Dr	Westerly End of Cul-de-Sac	0.000	0.058	0.116	952.747	Seal, Slurry, Modified
			Area No. 1 SUBTOTAL		3.552	60,318.720	

Street Surface Treatments - 2017

Project Log of Streets

Ann Arbor-Saline Road

<u>Line No.</u>	<u>ItemCode</u>	<u>Item Description</u>	<u>Unit</u>	<u>Quantity</u>
40	50107011	Cold Milling HMA Surface, Modified	Syd	811.333
50	5047011	Micro-Surface, Single Course	Syd	23,553.493
70	5017031	Hand Patching, Modified	Ton	140.564
80	8110058	Pavt Mrkg, Ovly Cold Plastic, Bike, Small Sym	Ea	3.000
85	8110079	Pavt Mrkg, Ovly Cold Plastic, Sharrow Symbol	Ea	3.000
90	8110520	Pavt Mrkg, Wet Retrflec Thermopl, 4 inch, White	Ft	2,234.000
100	8110524	Pavt Mrkg, Wet Retrflec Thermopl, 4 inch, Yellow	Ft	7,477.000
110	8110343	Rem Spec Mrkg	Sft	476.000
120	8117001	_Pavt Mrkg, Wet Retrflec Thermopl, 12 inch, Crosswalk	Ft	368.000
125	8117001	_Pavt Mrkg, Wet Retrflec Thermopl, 12 inch, Cross Hatching, Yellow	Ft	126.000
130	8117001	_Pavt Mrkg, Wet Retrflec Thermopl, 24 inch, Stop Bar	Ft	65.000
140	8117050	_Pavt Mrkg, Wet Retrflec Thermopl, Lt Turn Arrow Sym	Ea	4.000
150	8117050	_Pavt Mrkg, Wet Retrflec Thermopl, Thru Arrow Sym	Ea	1.000
165	8117050	_Pavt Mrkg, Wet Retrflec Thermopl, Only	Ea	5.000
175	8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	15.000
180	8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	15.000
185	8120030	Channelizing Device, 42 inch, Furn	Ea	237.000
190	8120031	Channelizing Device, 42 inch, Oper	Ea	237.000
195	8120140	Lighted Arrow, Type C, Furn	Ea	2.000
200	8120141	Lighted Arrow, Type C, Oper	Ea	2.000
210	8120210	Pavt Mrkg, Longit, 6 inch or Less Width, Rem	Ft	9,711.000
215	8120211	Pavt Mrkg, Longit, Greater than 6 inch Width, Rem	Ft	559.000
220	8120235	Pavt Mrkg, Wet Retrflec, Type NR, Paint, 4 inch, White, Temp	Ft	2,234.000
225	8120236	Pavt Mrkg, Wet Retrflec, Type NR, Paint, 4 inch, Yellow, Temp	Ft	7,477.000
230	8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	61.000
235	8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	61.000
240	8120280	Raised Pavt Marker, Temp, Type 1, White, Monodirectional	Ea	45.000
245	8120281	Raised Pavt Marker, Temp, Type 1, Yellow, Bidirectional	Ea	150.000
260	8120331	Sign, Portable, Changeable Message, Oper	Ea	4.000
265	8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	646.000
270	8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	646.000

Street Surface Treatments - 2017

Project Log of Streets

North Maple Road

<u>Line No.</u>	<u>ItemCode</u>	<u>Item Description</u>	<u>Unit</u>	<u>Quantity</u>
30	2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	35.000
40	50107011	Cold Milling HMA Surface, Modified	Syd	1313.330
50	5047011	Micro-Surface, Single Course	Syd	24689.222
60	5057011	Seal, Single Chip, Modified	Syd	24689.222
70	5017031	Hand Patching, Modified	Ton	227.534
75	8110049	Pavt Mrkg, Ovly Cold Plastic, Direction Arrow Sym, Bike	Ea	5.000
80	8110058	Pavt Mrkg, Ovly Cold Plastic, Bike, Small Sym	Ea	5.000
90	8110520	Pavt Mrkg, Wet Retrflec Thermopl, 4 inch, White	Ft	2314.000
95	8110521	Pavt Mrkg, Wet Retrflec Thermopl, 6 inch, White	Ft	2763.000
100	8110524	Pavt Mrkg, Wet Retrflec Thermopl, 4 inch, Yellow	Ft	10802.000
110	8110343	Rem Spec Mrkg	Sft	453.000
120	8117001	_Pavt Mrkg, Wet Retrflec Thermopl, 12 inch, Crosswalk	Ft	640.000
125	8117001	_Pavt Mrkg, Wet Retrflec Thermopl, 12 inch, Cross Hatching, Yellow	Ft	206.000
130	8117001	_Pavt Mrkg, Wet Retrflec Thermopl, 24 inch, Stop Bar	Ft	139.000
140	8117050	_Pavt Mrkg, Wet Retrflec Thermopl, Lt Turn Arrow Sym	Ea	5.000
150	8117050	_Pavt Mrkg, Wet Retrflec Thermopl, Thru Arrow Sym	Ea	2.000
165	8117050	_Pavt Mrkg, Wet Retrflec Thermopl, Only	Ea	4.000
175	8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	25.000
180	8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	25.000
185	8120030	Channelizing Device, 42 inch, Furn	Ea	336.000
190	8120031	Channelizing Device, 42 inch, Oper	Ea	336.000
195	8120140	Lighted Arrow, Type C, Furn	Ea	2.000
200	8120141	Lighted Arrow, Type C, Oper	Ea	2.000
210	8120210	Pavt Mrkg, Longit, 6 inch or Less Width, Rem	Ft	15879.000
215	8120211	Pavt Mrkg, Longit, Greater than 6 inch Width, Rem	Ft	985.000
220	8120235	Pavt Mrkg, Wet Retrflec, Type NR, Paint, 4 inch, White, Temp	Ft	2314.000
225	8120236	Pavt Mrkg, Wet Retrflec, Type NR, Paint, 4 inch, Yellow, Temp	Ft	10802.000
230	8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	349.000
235	8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	349.000
240	8120280	Raised Pavt Marker, Temp, Type 1, White, Monodirectional	Ea	46.000
245	8120281	Raised Pavt Marker, Temp, Type 1, Yellow, Bidirectional	Ea	216.000
260	8120331	Sign, Portable, Changeable Message, Oper	Ea	6.000
265	8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	926.000
270	8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	926.000

Street Surface Treatments - 2017

Project Log of Streets

Platt Road

<u>Line No.</u>	<u>ItemCode</u>	<u>Item Description</u>	<u>Unit</u>	<u>Quantity</u>
40	50107011	Cold Milling HMA Surface, Modified	Syd	880.003
50	5047011	Micro-Surface, Single Course	Syd	24169.644
70	5017031	Hand Patching, Modified	Ton	152.461
75	8110049	Pavt Mrkg, Ovly Cold Plastic, Direction Arrow Sym, Bike	Ea	21.000
80	8110058	Pavt Mrkg, Ovly Cold Plastic, Bike, Small Sym	Ea	21.000
90	8110520	Pavt Mrkg, Wet Retrflc Thermopl, 4 inch, White	Ft	735.000
95	8110521	Pavt Mrkg, Wet Retrflc Thermopl, 6 inch, White	Ft	2650.000
100	8110524	Pavt Mrkg, Wet Retrflc Thermopl, 4 inch, Yellow	Ft	11082.000
110	8110343	Rem Spec Mrkg	Sft	1205.000
120	8117001	_Pavt Mrkg, Wet Retrflc Thermopl, 12 inch, Crosswalk	Ft	783.000
125	8117001	_Pavt Mrkg, Wet Retrflc Thermopl, 12 inch, Cross Hatching, Yellow	Ft	78.000
130	8117001	_Pavt Mrkg, Wet Retrflc Thermopl, 24 inch, Stop Bar	Ft	24.000
140	8117050	_Pavt Mrkg, Wet Retrflc Thermopl, Lt Turn Arrow Sym	Ea	10.000
145	8117050	_Pavt Mrkg, Wet Retrflc Thermopl, Rt Turn Arrow Sym	Ea	4.000
150	8117050	_Pavt Mrkg, Wet Retrflc Thermopl, Thru Arrow Sym	Ea	5.000
155	8117050	_Pavt Mrkg, Wet Retrflc Thermopl, Thru and Rt Turn Arrow Sym	Ea	4.000
165	8117050	_Pavt Mrkg, Wet Retrflc Thermopl, Only	Ea	5.000
175	8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	29.000
180	8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	29.000
185	8120030	Channelizing Device, 42 inch, Furn	Ea	353.000
190	8120031	Channelizing Device, 42 inch, Oper	Ea	353.000
195	8120140	Lighted Arrow, Type C, Furn	Ea	2.000
200	8120141	Lighted Arrow, Type C, Oper	Ea	2.000
210	8120210	Pavt Mrkg, Longit, 6 inch or Less Width, Rem	Ft	14467.000
215	8120211	Pavt Mrkg, Longit, Greater than 6 inch Width, Rem	Ft	885.000
220	8120235	Pavt Mrkg, Wet Retrflc, Type NR, Paint, 4 inch, White, Temp	Ft	735.000
225	8120236	Pavt Mrkg, Wet Retrflc, Type NR, Paint, 4 inch, Yellow, Temp	Ft	11082.000
240	8120280	Raised Pavt Marker, Temp, Type 1, White, Monodirectional	Ea	15.000
245	8120281	Raised Pavt Marker, Temp, Type 1, Yellow, Bidirectional	Ea	222.000
260	8120331	Sign, Portable, Changeable Message, Oper	Ea	6.000
265	8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	646.000
270	8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	646.000

Street Surface Treatments - 2017

Project Log of Streets

South Huron Parkway

<u>Line No.</u>	<u>ItemCode</u>	<u>Item Description</u>	<u>Unit</u>	<u>Quantity</u>
30	2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	54.000
40	50107011	Cold Milling HMA Surface, Modified	Syd	2409.667
50	5047011	Micro-Surface, Single Course	Syd	37928.587
60	5057011	Seal, Single Chip, Modified	Syd	37928.587
70	5017031	Hand Patching, Modified	Ton	417.475
90	8110520	Pavt Mrkg, Wet Retrflec Thermopl, 4 inch, White	Ft	4754.000
100	8110524	Pavt Mrkg, Wet Retrflec Thermopl, 4 inch, Yellow	Ft	19580.000
110	8110343	Rem Spec Mrkg	Sft	464.000
120	8117001	_Pavt Mrkg, Wet Retrflec Thermopl, 12 inch, Crosswalk	Ft	634.000
125	8117001	_Pavt Mrkg, Wet Retrflec Thermopl, 12 inch, Cross Hatching, Yellow	Ft	352.000
130	8117001	_Pavt Mrkg, Wet Retrflec Thermopl, 24 inch, Stop Bar	Ft	176.000
140	8117050	_Pavt Mrkg, Wet Retrflec Thermopl, Lt Turn Arrow Sym	Ea	8.000
165	8117050	_Pavt Mrkg, Wet Retrflec Thermopl, Only	Ea	6.000
175	8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	22.000
180	8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	22.000
185	8120030	Channelizing Device, 42 inch, Furn	Ea	454.000
190	8120031	Channelizing Device, 42 inch, Oper	Ea	454.000
195	8120140	Lighted Arrow, Type C, Furn	Ea	2.000
200	8120141	Lighted Arrow, Type C, Oper	Ea	2.000
210	8120210	Pavt Mrkg, Longit, 6 inch or Less Width, Rem	Ft	24334.000
215	8120211	Pavt Mrkg, Longit, Greater than 6 inch Width, Rem	Ft	1162.000
220	8120235	Pavt Mrkg, Wet Retrflec, Type NR, Paint, 4 inch, White, Temp	Ft	4754.000
225	8120236	Pavt Mrkg, Wet Retrflec, Type NR, Paint, 4 inch, Yellow, Temp	Ft	19580.000
230	8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	109.000
235	8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	109.000
240	8120280	Raised Pavt Marker, Temp, Type 1, White, Monodirectional	Ea	95.000
245	8120281	Raised Pavt Marker, Temp, Type 1, Yellow, Bidirectional	Ea	392.000
260	8120331	Sign, Portable, Changeable Message, Oper	Ea	5.000
265	8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	526.000
270	8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	526.000

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South Main Street - 1

<u>Line No.</u>	<u>ItemCode</u>	<u>Item Description</u>	<u>Unit</u>	<u>Quantity</u>
30	2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	39.000
40	50107011	Cold Milling HMA Surface, Modified	Syd	3889.113
50	5047011	Micro-Surface, Single Course	Syd	20734.111
60	5057011	Seal, Single Chip, Modified	Syd	20734.111
70	5017031	Hand Patching, Modified	Ton	673.789
75	8110049	Pavt Mrkg, Ovly Cold Plastic, Direction Arrow Sym, Bike	Ea	9.000
80	8110058	Pavt Mrkg, Ovly Cold Plastic, Bike, Small Sym	Ea	9.000
90	8110520	Pavt Mrkg, Wet Retrflc Thermopl, 4 inch, White	Ft	1737.000
95	8110521	Pavt Mrkg, Wet Retrflc Thermopl, 6 inch, White	Ft	7791.000
100	8110524	Pavt Mrkg, Wet Retrflc Thermopl, 4 inch, Yellow	Ft	9766.000
110	8110343	Rem Spec Mrkg	Sft	997.000
120	8117001	_Pavt Mrkg, Wet Retrflc Thermopl, 12 inch, Crosswalk	Ft	506.000
125	8117001	_Pavt Mrkg, Wet Retrflc Thermopl, 12 inch, Cross Hatching, Yellow	Ft	322.000
130	8117001	_Pavt Mrkg, Wet Retrflc Thermopl, 24 inch, Stop Bar	Ft	87.000
140	8117050	_Pavt Mrkg, Wet Retrflc Thermopl, Lt Turn Arrow Sym	Ea	9.000
145	8117050	_Pavt Mrkg, Wet Retrflc Thermopl, Rt Turn Arrow Sym	Ea	11.000
155	8117050	_Pavt Mrkg, Wet Retrflc Thermopl, Thru and Rt Turn Arrow Sym	Ea	2.000
160	8117050	_Pavt Mrkg, Wet Retrflc Thermopl, Thru and Lt Turn Arrow Sym	Ea	2.000
165	8117050	_Pavt Mrkg, Wet Retrflc Thermopl, Only	Ea	6.000
175	8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	17.000
180	8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	17.000
185	8120030	Channelizing Device, 42 inch, Furn	Ea	262.000
190	8120031	Channelizing Device, 42 inch, Oper	Ea	262.000
195	8120140	Lighted Arrow, Type C, Furn	Ea	2.000
200	8120141	Lighted Arrow, Type C, Oper	Ea	2.000
210	8120210	Pavt Mrkg, Longit, 6 inch or Less Width, Rem	Ft	19294.000
215	8120211	Pavt Mrkg, Longit, Greater than 6 inch Width, Rem	Ft	915.000
220	8120235	Pavt Mrkg, Wet Retrflc, Type NR, Paint, 4 inch, White, Temp	Ft	1737.000
225	8120236	Pavt Mrkg, Wet Retrflc, Type NR, Paint, 4 inch, Yellow, Temp	Ft	9766.000
230	8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	99.000
235	8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	99.000
240	8120280	Raised Pavt Marker, Temp, Type 1, White, Monodirectional	Ea	35.000
245	8120281	Raised Pavt Marker, Temp, Type 1, Yellow, Bidirectional	Ea	195.000
260	8120331	Sign, Portable, Changeable Message, Oper	Ea	4.000
265	8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	726.000
270	8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	726.000

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Project Log of Streets

South Main Street - 2

<u>Line No.</u>	<u>ItemCode</u>	<u>Item Description</u>	<u>Unit</u>	<u>Quantity</u>
40	50107011	Cold Milling HMA Surface, Modified	Syd	173.330
45	5040005	Micro-Surface, Rutfilling	Ton	60.000
50	5047011	Micro-Surface, Single Course	Syd	19944.556
70	5017031	Hand Patching, Modified	Ton	30.029
90	8110520	Pavt Mrkg, Wet Retrflc Thermopl, 4 inch, White	Ft	2655.000
100	8110524	Pavt Mrkg, Wet Retrflc Thermopl, 4 inch, Yellow	Ft	6906.000
105	8110332	Rem Raised Pavt Marker	Ea	70.000
110	8110343	Rem Spec Mrkg	Sft	618.000
120	8117001	_Pavt Mrkg, Wet Retrflc Thermopl, 12 inch, Crosswalk	Ft	176.000
125	8117001	_Pavt Mrkg, Wet Retrflc Thermopl, 12 inch, Cross Hatching, Yellow	Ft	206.000
130	8117001	_Pavt Mrkg, Wet Retrflc Thermopl, 24 inch, Stop Bar	Ft	140.000
140	8117050	_Pavt Mrkg, Wet Retrflc Thermopl, Lt Turn Arrow Sym	Ea	9.000
150	8117050	_Pavt Mrkg, Wet Retrflc Thermopl, Thru Arrow Sym	Ea	2.000
155	8117050	_Pavt Mrkg, Wet Retrflc Thermopl, Thru and Rt Turn Arrow Sym	Ea	2.000
165	8117050	_Pavt Mrkg, Wet Retrflc Thermopl, Only	Ea	7.000
175	8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	10.000
180	8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	10.000
185	8120030	Channelizing Device, 42 inch, Furn	Ea	150.000
190	8120031	Channelizing Device, 42 inch, Oper	Ea	150.000
195	8120140	Lighted Arrow, Type C, Furn	Ea	2.000
200	8120141	Lighted Arrow, Type C, Oper	Ea	2.000
210	8120210	Pavt Mrkg, Longit, 6 inch or Less Width, Rem	Ft	9561.000
215	8120211	Pavt Mrkg, Longit, Greater than 6 inch Width, Rem	Ft	522.000
220	8120235	Pavt Mrkg, Wet Retrflc, Type NR, Paint, 4 inch, White, Temp	Ft	2655.000
225	8120236	Pavt Mrkg, Wet Retrflc, Type NR, Paint, 4 inch, Yellow, Temp	Ft	6906.000
230	8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	35.000
235	8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	35.000
240	8120280	Raised Pavt Marker, Temp, Type 1, White, Monodirectional	Ea	53.000
245	8120281	Raised Pavt Marker, Temp, Type 1, Yellow, Bidirectional	Ea	138.000
260	8120331	Sign, Portable, Changeable Message, Oper	Ea	6.000
265	8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	500.000
270	8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	500.000

Street Surface Treatments - 2017

Project Log of Streets

South Main Street - 3

<u>Line No.</u>	<u>ItemCode</u>	<u>Item Description</u>	<u>Unit</u>	<u>Quantity</u>
40	50107011	Cold Milling HMA Surface, Modified	Syd	593.887
45	5040005	Micro-Surface, Rutfilling	Ton	42.000
50	5047011	Micro-Surface, Single Course	Syd	24114.498
70	5017031	Hand Patching, Modified	Ton	102.891
90	8110520	Pavt Mrkg, Wet Retrflc Thermopl, 4 inch, White	Ft	2953.000
95	8110521	Pavt Mrkg, Wet Retrflc Thermopl, 6 inch, White	Ft	65.000
100	8110524	Pavt Mrkg, Wet Retrflc Thermopl, 4 inch, Yellow	Ft	5157.000
105	8110332	Rem Raised Pavt Marker	Ea	47.000
110	8110343	Rem Spec Mrkg	Sft	810.000
120	8117001	_Pavt Mrkg, Wet Retrflc Thermopl, 12 inch, Crosswalk	Ft	1467.000
130	8117001	_Pavt Mrkg, Wet Retrflc Thermopl, 24 inch, Stop Bar	Ft	356.000
135	8117001	_Pavt Mrkg, Wet Retrflc Thermopl, 4 inch, Parking Sym, White	Ft	56.000
140	8117050	_Pavt Mrkg, Wet Retrflc Thermopl, Lt Turn Arrow Sym	Ea	6.000
145	8117050	_Pavt Mrkg, Wet Retrflc Thermopl, Rt Turn Arrow Sym	Ea	2.000
150	8117050	_Pavt Mrkg, Wet Retrflc Thermopl, Thru Arrow Sym	Ea	4.000
160	8117050	_Pavt Mrkg, Wet Retrflc Thermopl, Thru and Lt Turn Arrow Sym	Ea	2.000
165	8117050	_Pavt Mrkg, Wet Retrflc Thermopl, Only	Ea	8.000
170	8117050	_Pavt Mrkg, Wet Retrflc Thermopl, Railroad Sym	Ea	2.000
175	8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	37.000
180	8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	37.000
185	8120030	Channelizing Device, 42 inch, Furn	Ea	353.000
190	8120031	Channelizing Device, 42 inch, Oper	Ea	353.000
195	8120140	Lighted Arrow, Type C, Furn	Ea	2.000
200	8120141	Lighted Arrow, Type C, Oper	Ea	2.000
210	8120210	Pavt Mrkg, Longit, 6 inch or Less Width, Rem	Ft	8231.000
215	8120211	Pavt Mrkg, Longit, Greater than 6 inch Width, Rem	Ft	1823.000
220	8120235	Pavt Mrkg, Wet Retrflc, Type NR, Paint, 4 inch, White, Temp	Ft	2953.000
225	8120236	Pavt Mrkg, Wet Retrflc, Type NR, Paint, 4 inch, Yellow, Temp	Ft	5157.000
230	8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	297.000
235	8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	297.000
240	8120280	Raised Pavt Marker, Temp, Type 1, White, Monodirectional	Ea	59.000
245	8120281	Raised Pavt Marker, Temp, Type 1, Yellow, Bidirectional	Ea	103.000
260	8120331	Sign, Portable, Changeable Message, Oper	Ea	4.000
265	8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	1246.000
270	8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	1246.000

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Project Log of Streets

West Stadium Boulevard

<u>Line No.</u>	<u>ItemCode</u>	<u>Item Description</u>	<u>Unit</u>	<u>Quantity</u>
40	50107011	Cold Milling HMA Surface, Modified	Syd	209.997
55	5047011	Micro-Surface, Single Course, Nighttime Work	Syd	30919.679
70	5017031	Hand Patching, Modified	Ton	36.382
75	8110049	Pavt Mrkg, Ovly Cold Plastic, Direction Arrow Sym, Bike	Ea	16.000
80	8110058	Pavt Mrkg, Ovly Cold Plastic, Bike, Small Sym	Ea	16.000
90	8110520	Pavt Mrkg, Wet Retrflec Thermopl, 4 inch, White	Ft	2623.000
95	8110521	Pavt Mrkg, Wet Retrflec Thermopl, 6 inch, White	Ft	8550.000
100	8110524	Pavt Mrkg, Wet Retrflec Thermopl, 4 inch, Yellow	Ft	10781.000
110	8110343	Rem Spec Mrkg	Sft	1112.000
120	8117001	_Pavt Mrkg, Wet Retrflec Thermopl, 12 inch, Crosswalk	Ft	1215.000
130	8117001	_Pavt Mrkg, Wet Retrflec Thermopl, 24 inch, Stop Bar	Ft	170.000
140	8117050	_Pavt Mrkg, Wet Retrflec Thermopl, Lt Turn Arrow Sym	Ea	17.000
145	8117050	_Pavt Mrkg, Wet Retrflec Thermopl, Rt Turn Arrow Sym	Ea	10.000
165	8117050	_Pavt Mrkg, Wet Retrflec Thermopl, Only	Ea	5.000
175	8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	22.000
180	8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	22.000
185	8120030	Channelizing Device, 42 inch, Furn	Ea	303.000
190	8120031	Channelizing Device, 42 inch, Oper	Ea	303.000
195	8120140	Lighted Arrow, Type C, Furn	Ea	2.000
200	8120141	Lighted Arrow, Type C, Oper	Ea	2.000
205	8120160	Ltg for Night Work	LSUM	1.000
210	8120210	Pavt Mrkg, Longit, 6 inch or Less Width, Rem	Ft	21954.000
215	8120211	Pavt Mrkg, Longit, Greater than 6 inch Width, Rem	Ft	1385.000
220	8120235	Pavt Mrkg, Wet Retrflec, Type NR, Paint, 4 inch, White, Temp	Ft	2623.000
225	8120236	Pavt Mrkg, Wet Retrflec, Type NR, Paint, 4 inch, Yellow, Temp	Ft	10781.000
230	8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	221.000
235	8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	221.000
240	8120280	Raised Pavt Marker, Temp, Type 1, White, Monodirectional	Ea	52.000
245	8120281	Raised Pavt Marker, Temp, Type 1, Yellow, Bidirectional	Ea	216.000
260	8120331	Sign, Portable, Changeable Message, Oper	Ea	4.000
265	8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	806.000
270	8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	806.000

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Area 1

<u>Line No.</u>	<u>ItemCode</u>	<u>Item Description</u>	<u>Unit</u>	<u>Quantity</u>
65	5067011	Seal, Slurry, Modified	Syd	28538.985
175	8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	10.000
180	8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	10.000
195	8120140	Lighted Arrow, Type C, Furn	Ea	2.000
200	8120141	Lighted Arrow, Type C, Oper	Ea	2.000
230	8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	25.000
235	8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	25.000
260	8120331	Sign, Portable, Changeable Message, Oper	Ea	1.000
265	8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	200.000
270	8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	200.000

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Area 2

<u>Line No.</u>	<u>ItemCode</u>	<u>Item Description</u>	<u>Unit</u>	<u>Quantity</u>
65	5067011	Seal, Slurry, Modified	Syd	60318.720
175	8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	20.000
180	8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	20.000
195	8120140	Lighted Arrow, Type C, Furn	Ea	2.000
200	8120141	Lighted Arrow, Type C, Oper	Ea	2.000
230	8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	25.000
235	8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	25.000
260	8120331	Sign, Portable, Changeable Message, Oper	Ea	2.000
265	8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	200.000
270	8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	200.000

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Project Log of Streets

Area 3

<u>Line No.</u>	<u>ItemCode</u>	<u>Item Description</u>	<u>Unit</u>	<u>Quantity</u>
65	5067011	Seal, Slurry, Modified	Syd	13456.000
175	8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	6.000
180	8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	6.000
195	8120140	Lighted Arrow, Type C, Furn	Ea	2.000
200	8120141	Lighted Arrow, Type C, Oper	Ea	2.000
230	8120260	Plastic Drum, High Intensity, Lighted, Furn	Ea	25.000
235	8120261	Plastic Drum, High Intensity, Lighted, Oper	Ea	25.000
260	8120331	Sign, Portable, Changeable Message, Oper	Ea	1.000
265	8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	200.000
270	8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	200.000

Street Surface Treatments - 2017

Project Log of Streets

Miscellaneous - Project Wide

<u>Line No.</u>	<u>ItemCode</u>	<u>Item Description</u>	<u>Unit</u>	<u>Quantity</u>
10	1047051	_General Conditions, Max \$15,000.00	LSUM	1.000
15	1047051	_Project Supervision, Max \$25,000.00	LSUM	1.000
20	1047051	_Certified Payroll Compliance and Reporting	LSUM	1.000
25	1047051	_Resident Notification	LSUM	1.000
35	2090001	Project Cleanup	LSUM	1.000
40	50107011	Cold Milling HMA Surface, Modified	Syd	1800.000
70	5017031	Hand Patching, Modified	Ton	300.000
115	8117001	_Pavt Mrkg, Wet Retrflc Thermopl, 6 inch, Crosswalk	Ft	500.000
250	8120310	Sign Cover	Ea	75.000
255	8120330	Sign, Portable, Changeable Message, Furn	Ea	8.000
275	8120370	Traf Regulator Control	LSUM	1.000
280	8127050	_No Parking Sign	Ea	125.000
285	8127051	_Minor Traffic Control, Max \$10,000.00	LSUM	1.000
290	8507022	Polymerized Emulsion Pavement Repair	Gal	125.000

