


PUBLIC WORKS

To: All Interested Bidders and plan holders

From: James Lynn Raynor, PE 

RE: 2018 Street Resurfacing Project, PWD-2018-002
Addendum #1

Date: April 20, 2018

The following items clarify, add to, delete from and/or otherwise change and supersede information previously issued to you in the Bid Documents for the above-referenced project. As such, said items shall be considered part of the contract and receipt of this addendum shall be acknowledged appropriately in the bid package. Please review the following items carefully and adjust your proposal accordingly.

Pre-bid Minutes/Clarifications/Follow-up:

1. **Effective with this addendum, the bid opening date has been adjusted to Tuesday, May 1, 2018, at 10:00 AM.** Location remains the same.
2. See Attachment 1, pre-bid meeting minutes, which as part of this addendum shall be considered part of the contract.
3. See pre-bid minutes, Item 3(f): Due to difficulties with scheduling thermoplastic subcontractors, the Contract Completion Time has been adjusted to add 30 days to accommodate this issue.
 - a. Example #1: Base Bid is 90 Calendar days, plus an additional 30 days to complete thermo markings. The work of thermoplastic pavement markings is the only work that shall extend into the additional 30 day timeframe.
 - b. Example #2: Base bid plus Alternate #1 is 104 Calendar days, plus an additional 30 days to complete thermo markings. The work of thermoplastic pavement markings is the only work that shall extend into the additional 30 day timeframe.
 - c. Bid items for temporary paint pavement markings have been added to the bid list for the following streets:
 - i. Arlington Blvd, from Greenville Blvd to Red Banks Rd: all markings (Base Bid)
 - ii. Red Banks Rd, from Arlington Blvd to Charles Blvd: all markings (Base Bid)
 - iii. Jefferson Dr., from S. Wright Rd to Cedar Lane: "SCHOOL" symbol only (Base Bid)
 - iv. Cedar Lane, from E. 10th St to Street End: "SCHOOL" symbol only (Alternate 2)
 - v. E. 5th St., from S. Holly St to E. 10th St: "SCHOOL" symbols only (Alternate 4)

- d. All streets not listed above shall be pre-marked only prior to thermoplastic, and payment for temporary paint markings shall not apply. Pre-marking will be incidental to the work of thermoplastic pavement markings.
4. See pre-bid minutes, Item 3(k): PSP-5 is clarified to mean initial placement of asphalt, project-wide, not started prior to 1:00 PM shall be suspended for the day. This means the contractor shall not commence paving operations for a given day after 1:00 PM if no other asphalt has been placed on the project that day.
5. See pre-bid minutes, Item 3(r): The contract is hereby updated to reference the 2018 NCDOT Standard Specifications for Roads and Structures in lieu of the 2012 version. As such, all asphalt designated previously as “S9.5B” shall be revised to “S9.5C.”

Changes/Additions to Bid List and Specifications:

1. All bid items for “Asphalt Concrete Surface Course, Type S9.5B” shown on the Bid Form have been updated to be “Asphalt Concrete Surface Course, Type S9.5C”.
2. Items for temporary paint pavement markings have been added to the Base Bid, Alternate 1, Alternate 2, and Alternate 4.
3. Missing quantities for Alternate 4 have been updated in the revised Bid Form.
4. Bidders shall submit the attached revised Bid Form for their bids to be considered responsive.
5. The following Unit Price descriptions shown in Section 1150 of the Detail Specifications have been adjusted as follows for the 2018 NCDOT Standard Specifications:
 - a. Mobilization (5% maximum): The unit price bid for mobilization shall be full compensation for preparing for work and associated operations, including but not limited to project bonds and insurance, the necessary movement of personnel, equipment, supplies, and incidentals to or near the project site; for establishing offices and facilities as may be required for the work; and the subsequent removal of personnel, equipment, supplies, and incidentals for the work site at the completion of the work; and all other costs which the Contractor may incur for the work which are excluded from other bid items. One half the total amount will be paid with first partial payment after construction begins, and the remaining one half with the second partial payment. The total amount for mobilization and bonding shall not exceed 5 percent of the total bid price.
 - b. Asphalt Concrete Surface Course, Type S9.5C: Includes all materials, labor, equipment, and incidentals necessary to satisfactorily place, complete and accepted, asphalt pavement at the thickness noted in the contract. Payment shall be made at the contract unit price for the actual number of tons incorporated into the project. No separate payment will be made for asphalt binder for plant mix.
 - c. Asphalt Plant Mix, Pavement Repair, 4” Deep (or 5” where indicated): Includes all materials, labor, equipment, and incidentals necessary to excavate or otherwise remove unsuitable materials below milled depth, disposal of removed materials, and furnishing, placing, and compacting asphalt plant mix, Type B25.0C. Unsuitable materials may include, but not be limited to, tree roots, soft, wet or otherwise unacceptable soil subgrade, and ABC stone. Payment will be made at the contract unit price for the actual tons of pavement satisfactorily placed.

6. The following Unit Price descriptions are hereby added to Section 1150 of the Detail Specifications:
 - a. Temporary Paint Pavement Markings: This item shall include all equipment, labor, materials, and incidentals necessary to install paint pavement markings in accordance with NCDOT Standard Specifications. Payment will be made at the contact unit prices per unit as shown in the Bid Form.
 - b. Retrofit Existing Wheel Chair Ramp with Truncated Domes: This item shall include all equipment, labor, materials, and incidentals necessary to install a 24"x48" detectable warning tile, black in color, in existing wheel chair ramps at locations as noted in the Bid Form. Payment shall be made at the contract unit price per each for each wheel chair ramp satisfactorily updated with truncated domes.
 - c. GridSmart Traffic Control Equipment, Installation Only: This item shall include all equipment and labor necessary to install GridSmart bell cameras and directional cameras at locations shown in the Bid Form and drawings provided by Traffic Engineering. Work includes, but is not limited to, attachment of cameras, installation of CAT5 cable, and making connections at the controller cabinet. Signal equipment, including cameras, mounting brackets, and CAT5 cable shall be supplied by the City of Greenville Traffic Division. Payment shall be made at the contract unit price per unit satisfactorily installed as shown in the Bid Form.

Any questions regarding this Addendum should be directed to Mr. Lynn Raynor, PE, at telephone 252-329-4620 or email at lraynor@greenvillenc.gov.

ec: Scott Godefroy, PE, City Engineer
Ronnie Donley, Streets Superintendent
Gentry Coward, Asst. Streets Superintendent

Attachment 1

To: Pre-Bid Conference Attendees and Plan holders

From: James Lynn Raynor, PE
City of Greenville PWD

Subject: **2018 Street Resurfacing Project, Pre-bid Minutes**

Date: April 20, 2018

On Tuesday, April 17, 2018 at 10:00 a.m., a Pre-bid conference for the referenced project was held at the Public Works Department Conference Room at 1500 Beatty Street, Greenville, NC. Those in attendance were as follows:

Lynn Raynor - COG
Scott Godefroy – COG
Gentry Coward – COG
Rik DeCesare – COG
Denisha Harris – COG
Ferdinand Rouse – COG
Barry Kass – Barnhill Contracting
Paul Heatherington – S. T. Wooten
Tim Rose – Rose Brothers Paving
Jim Wiggins – Rose Brothers Paving

The following items were discussed during the meeting.

MEETING ITEMS

1. Welcome
 - a. Attendance Sheet
 - b. **Pre-bid conference not mandatory**
 - c. Introductions

2. Legal Requirements
 - a. Bonds/Insurance Certificates – Bid Bond, Payment/Performance Bonds/Insurance Certificate
 - b. MWBE Requirements/**submittal with Bids** - all MWBE subcontractors must be HUB certified, and the City has separate goals for MBE and WBE which must be met separately. Incomplete paperwork could result in rejection of bid. All documentation of contact with MWBE subcontractors must be kept for review should the bidder not meet the goals. For assistance or more information, contact Ferdinand Rouse, MWBE Coordinator, at 252-329-4462 or frouse@greenvillenc.gov.

3. Project Data
 - a. Description – The Street Resurfacing work will consist of milling approximately 110,000 square yards of existing asphalt pavement, placing approximately 12,700 tons of Asphalt Concrete Surface Course, Type S 9.5B, 2,200 tons of Asphalt Concrete Base

repairs/patching, ADA improvements, and making necessary adjustments to valves and manholes. The Project also includes the placement of thermoplastic pavement markings on several streets as well as installation of new signal equipment. The Contractor will install improvements on City of Greenville and NCDOT Rights of Way and will be subject to their associated standards and specifications. A portion of the work must be performed at night. Four alternates are also included with work similar to the items listed above. Alternates may be awarded depending upon available funds.

- b. Milling – Bidders should note some streets are identified to be milled only 1” deep. Bidders should check both Base Bid and Alternates marked with a single asterisk.
- c. Asphalt Concrete Base Repairs/patching – Arlington Blvd repair will be 5” deep. All other patching will be 4” deep.
- d. Liquidated Damages - **\$500/day**.
- e. Contract Award – Lowest responsive responsible bidder. Lowest bidder will be required to provide references and financial records, which the City will check prior to moving forward with award. See page IB-1, paragraph (3) in the Instructions to Bidders.
- f. Contract Completion Time is as follows:
 - Base Bid – **90 Calendar Days from Notice to Proceed date.**
 - Alternate #1 – Add 14 Calendar Days to Base Bid
 - Alternate #2 – Add 14 Calendar Days to Base Bid
 - Alternate #3 – Add 14 Calendar Days to Base Bid
 - Alternate #4 – Add 30 Calendar Days to Base Bid
 - Example: should the City award the Base Bid, Alternate #1, and Alternate #2, the contract time would be 118 calendar days (90+14+14).
 - Discussion ensued regarding difficulties with getting thermoplastic subcontractors onsite to complete work. Suggestion was made to consider temporary striping as a pay item or extend the contract time to accommodate longer lead times for thermo. City agreed to review this internally and provide guidance in an addendum.
- g. Contractor is responsible for any necessary surveying, including documentation of existing pavement markings prior to obliteration. Traffic Engineering will provide aerial maps showing pavement markings to be replaced.
- h. Working Hours:
 - Normal Working Hours are 8am-5pm. Bidders should bid the project for all work to be completed during these times due to the proximity to residences, except as noted below.
 - PSP-1. Work on Arlington Blvd and Red Banks Road shall take place between the hours of 7pm and 7am.
 - PSP-1. Hooker Road and York Road must be scheduled at end of Base Bid work.
- i. Contractor shall provide 48 hour notice to the City cancelling nighttime operations for purposes other than inclement weather. Failure to provide this notice shall require the Contractor to reimburse the City for an 8-hour workday at the Inspector’s pay rate, including fringe benefits, and shall be deducted on the next partial pay estimate. Exception to this shall be cancellation of nighttime work due to inclement weather as outlined in the contract documents. Hourly Inspector rate is \$40/hr.
- j. PSP – 2:

- Most streets have on-street parking for residents. Streets with on-street parking that are intended to be milled and resurfaced must be signed “No Parking” at least 72 hours in advance of work commencing. It will be the responsibility of the contractor to obtain and install these signs according to his schedule. Contact information for Traffic Services can be found in PSP-2. Only signs will be provided. Mounting hardware, supports etc. will be the responsibility of the contractor. It is acceptable to mount signs to existing utility or light poles.
 - It is recommended contractors take pictures with date/time stamp when signs are placed to refute claims from citizens that signs were not placed in advance. This will assist with the ability to have remaining vehicles towed.
- k. PSP – 5:
- For daytime operations, any placement of asphalt not started prior to 1:00 PM shall be suspended for the day. Significant discussion of this item ensued. City stated this provision related to not beginning any new streets after 1:00 PM, but may be considered on a case by case basis. City agreed to review this provision and provide guidance in an addendum.
 - For nighttime operations, any placement of asphalt not started prior to 5:00 AM shall be suspended for that operational period. Concrete and signal work required on Arlington Blvd and Red Banks Rd. may be performed during normal daytime hours.
- l. PSP – 6: Public Relations. Contractor shall place door hangers at affected residences at least 24 hours in advance of paving operations. Public Works will prepare door hangers for the contractor’s use and distribution based on the schedules provided by the contractor each week.
- m. An addendum will be sent out with pre-bid minutes and any requests for information received.
- n. Traffic Control – reasonable access to residences and businesses must be maintained. Contractor will be required to provide traffic control plan/construction phasing for each street being resurfaced at the time of the pre-construction meeting.
- o. CMS – paid per sign per week. Example: Use 2 signs each for 3 weeks = 6 bid quantity. Similar scenario for portable lighting.
- p. PSP 26: New signal equipment – GridSmart bell and directional cameras.
- Signal equipment, mounting hardware, etc. will be purchased by Traffic Engineering. Contractor will only provide labor and equipment for installation. No additional conduit should be necessary.
 - Discussion of location and drawings. Traffic Engineering will provide markups showing location of cameras to be installed and CAT 5 cable to be run. These will be issued by addendum prior to bid.
 - Contractor will run cable and make connections at control cabinets. City Traffic personnel will program new equipment.
 - New equipment must be operational prior to milling of loop detection.
- q. Discussion regarding removal of speed cushions. Traffic Services may remove these instead of contractors; however, item will remain in the contract and bid list so a price will be submitted in case Contractors need to perform the work. Contractors were shown one of the speed cushions outside the Public Works building to assist with understanding how they are to be removed.

- r. Discussion regarding new 2018 NCDOT specifications for asphalt. Specifications for surface course mixes have changed. Contractors recommended City consider updating to 2018 specs and specify a “C” mix. City agreed to look at this and address in an addendum.
- s. **Bid date – revised to Tuesday, May 1, 2018 at 10:00 AM, 1500 Beatty St. Be sure to include all required documents with bids. (Bid Form, Bid Security, Non-Collusion Affidavit, MWBE documentation)**

4. Contacts

- a. Lynn Raynor, PE, CE II, 252-329-4620, lraynor@greenvillenc.gov
- b. Ferdinand Rouse, MWBE Coordinator, 252-329-4462, frouse@greenvillenc.gov

BID FORM

PROJECT IDENTIFICATION: **2018 Street Resurfacing Project**
 PWD-2018-002
 GREENVILLE, NORTH CAROLINA

THIS BID IS SUBMITTED TO: CITY OF GREENVILLE PUBLIC WORKS DEPARTMENT
 1500 BEATTY STREET
 GREENVILLE, NORTH CAROLINA

1. The undersigned BIDDER proposes and agrees, if this Bid is accepted, to enter into an agreement with OWNER in the form included in the Contract Documents to perform and furnish all Work as specified or indicated in the Contract Documents for the Bid Price and within the Bid Times indicated in this Bid and in accordance with the other terms and conditions of the Contract Documents.
2. BIDDER accepts all of the terms and conditions of the Advertisement or Invitation to Bid and Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for sixty days after the day of Bid opening. BIDDER will sign and deliver the required number of counterparts of the Agreement with the Bonds and other documents required by the Bidding Requirements within ten days after the date of OWNER'S Notice of Award.
3. In submitting this Bid, BIDDER represents, as more fully set forth in the Agreement, that:
 - (a) BIDDER has examined and carefully studied the Bidding Documents and the following Addenda receipt of all, which is hereby acknowledged: (List Addenda by Addendum Number and Date)

<u>Addendum Number</u>	<u>Date</u>

- (b) BIDDER has visited the site and become familiar with and is satisfied as to the general, local and site conditions that may affect cost, progress, performance and furnishing of the Work;
- (c) BIDDER is familiar with and is satisfied as to all federal, state and local Laws and Regulations that may affect cost, progress, performance and furnishing of the Work.
- (d) BIDDER has carefully studied all reports of explorations and tests of subsurface conditions at or contiguous to the site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the site (except Underground Facilities) which have been identified in the Supplementary Conditions as provided in paragraph 4.02 of the General Conditions. BIDDER accepts the determination set forth in paragraph the

- Supplementary Conditions of the extent of the "technical data" contained in such reports and drawings upon which BIDDER is entitled to rely as provided in paragraph 4.02 of the General Conditions. BIDDER acknowledges that such reports and drawings are not Contract Documents and may not be complete for BIDDER'S purposes. BIDDER acknowledges that OWNER and Engineer do not assume responsibility for the accuracy or completeness of information and data shown or indicated in the Bidding Documents with respect to Underground Facilities at or contiguous to the site. BIDDER has obtained and carefully studied (or assumes responsibility for not having done so) all such additional or supplementary examinations, investigations, explorations, tests studies and data concerning conditions (surface, subsurface and Underground Facilities) at or contiguous to the site or otherwise which may affect cost progress, performance or furnishing of the Work or which relate to any aspect of the means, methods, techniques, sequences and procedures of construction to be employed by BIDDER and safety precautions and programs incident thereto. BIDDER does not consider that any additional examinations, investigations, explorations, tests, studies or data are necessary for the determination of this Bid for performance and furnishing of the Work in accordance with the times, price and other terms and conditions of the Contract Documents.
- (e) BIDDER is aware of the general nature of Work to be performed by Owner and others at the site that relates to Work for which this Bid is submitted as indicated in the Contract Documents.
 - (f) BIDDER has correlated the information known to BIDDER, information and observations obtained from visits to the site, reports and drawings identified in the Contract Documents and all additional examinations, investigations, explorations, tests, studies and data with the Contract Documents.
 - (g) BIDDER has given ENGINEER written notice of all conflicts, errors, ambiguities or discrepancies that BIDDER has discovered in the Contract Documents and the written resolution thereof by ENGINEER is acceptable to BIDDER, and the Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performing and furnishing the Work for which this Bid is submitted.
 - (h) This Bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; BIDDER has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; BIDDER has not solicited or induced any person, firm or corporation to refrain from bidding; and BIDDER has not sought by collusion to obtain for itself any advantage over any other BIDDER or over OWNER.
4. BIDDER will complete the Work in accordance with the Contract Documents for the following unit price(s):
- (a) All specific cash allowances are included in the price(s) set forth and have been computed in accordance with paragraph 11.02 of the General Conditions.
 - (b) Unit Prices have been computed in accordance with paragraph 11.03 of the General Conditions.

SCHEDULE OF QUANTITIES FOR BID
2018 Street Resurfacing Project
OWNER: CITY OF GREENVILLE

BID OPENING DATE: May 1, 2018

The unit prices noted herein shall include installing in place, complete and accepted.

BASE BID

STREET RESURFACING, COLD MILLING OF ASPHALT PAVEMENTS, PAVEMENT MARKINGS/SIGNALS

Item No.	Item Description	Scheduled Quantities	Unit	Unit Price	Amount
1	MOBILIZATION	1	LS		
2	ASPHALT CONCRETE SURFACE COURSE, S 9.5C	12,700	TON		
3	ASPHALT PLANT MIX, PAVEMENT REPAIR, 4" DEEP	2,200	TON		
4	ADJUST/REPLACE WATER/GAS VALVE BOXES	9	EA		
5	ADJUST/REPLACE 24" STORM DRAIN/SANITARY SEWER CASTING AND COVER	24	EA		
6	REMOVAL OF EXISTING SPEED HUMPS	5	EA		
7	REMOVAL OF EXISTING SPEED CUSHIONS	6	EA		
8	REMOVAL OF EXISTING CONCRETE CURB AND GUTTER/ 5' SIDEWALK	920	LF		
9	24" CONCRETE CURB AND GUTTER	920	LF		
10	4" THK. CONCRETE SIDEWALK	10	SY		
11	REMOVAL OF EXISTING WHEEL CHAIR RAMPS	2	EA		
12	TYPE 2A CONCRETE WHEELCHAIR RAMP	2	EA		
13	INCIDENTAL SEEDING AND MULCHING	1	LS		
14	BACKFILL OF SHOULDERS/ROADWAY EDGES	1	LS		
15	WORK ZONE TRAFFIC CONTROL	1	LS		
16	CHANGEABLE MESSAGE SIGNS	6	EA/WK		
17	PORTABLE LIGHTING	24	EA/WK		
18	MILLING ASPHALT PAVEMENT, 1" to 3" DEPTH	110,000	SY		
19	4" THERMOPLASTIC WHITE LINE, 120 MILS	13,500	LF		
20	12" THERMOPLASTIC WHITE LINE, 120 MILS	425	LF		
21	24" THERMOPLASTIC WHITE LINE, 120 MILS	250	LF		
22	4" THERMOPLASTIC YELLOW LINE, 120 MILS	9,900	LF		

23	6" THERMOPLASTIC YELLOW LINE, 120 MILS	400	LF		
24	THERMOPLASTIC PAVEMENT MARKING SYMBOLS, ARROWS (STRAIGHT OR TURN)	46	EA		
25	THERMOPLASTIC PAVEMENT MARKING SYMBOLS, COMBINATION ARROWS	6	EA		
26	THERMOPLASTIC PAVEMENT MARKINGS, "SCHOOL"	1	EA		
27	THERMOPLASTIC PAVEMENT MARKING, BIKE LANE (HELMETED CYCLIST)	11	EA		
28	GRIDSMART TRAFFIC CONTROL BELL CAMERA, INSTALLATION ONLY	3	EA		
29	GRIDSMART TRAFFIC CONTROL DIRECTIONAL CAMERA, INSTALLATION ONLY	4	EA		
30	TEMPORARY PAINT PAVEMENT MARKING LINES, 4" WHITE	2,055	LF		
31	TEMPORARY PAINT PAVEMENT MARKING LINES, 12" WHITE	325	LF		
32	TEMPORARY PAINT PAVEMENT MARKING LINES, 24" WHITE	173	LF		
33	TEMPORARY PAINT PAVEMENT MARKING LINES, 4" YELLOW	7,120	LF		
34	TEMPORARY PAINT PAVEMENT MARKING LINES, 6" YELLOW	400	LF		
35	TEMPORARY PAINT PAVEMENT MARKING SYMBOLS, ARROWS (STRAIGHT OR TURN)	40	EA		
36	TEMPORARY PAINT PAVEMENT MARKING SYMBOLS, COMBINATION ARROWS	6	EA		
37	TEMPORARY PAINT PAVEMENT MARKING SYMBOLS, "SCHOOL"	1	EA		

**ALTERNATE #1
STREET RESURFACING, COLD MILLING OF ASPHALT PAVEMENTS, PAVEMENT MARKINGS/SIGNALS**

Item No.	Item Description	Scheduled Quantities	Unit	Unit Price	Amount
1	MOBILIZATION	1	LS		
2	ASPHALT CONCRETE SURFACE COURSE, S 9.5C	2,220	TON		
3	ASPHALT PLANT MIX, PAVEMENT REPAIR, 4" DEEP	1,300	TON		
4	REMOVAL OF EXISTING SPEED HUMPS	2	EA		
5	REMOVAL OF EXISTING CONCRETE CURB AND GUTTER/ 5' SIDEWALK	205	LF		
6	24" CONCRETE CURB AND GUTTER	205	LF		
7	INCIDENTAL SEEDING AND MULCHING	1	LS		
8	WORK ZONE TRAFFIC CONTROL	1	LS		

9	MILLING ASPHALT PAVEMENT, 1" to 3" DEPTH	19,650	SY		
10	24" THERMOPLASTIC WHITE LINE, 120 MILS	30	LF		

**ALTERNATE #2
STREET RESURFACING, COLD MILLING OF ASPHALT PAVEMENTS, PAVEMENT MARKINGS/SIGNALS**

Item No.	Item Description	Scheduled Quantities	Unit	Unit Price	Amount
1	MOBILIZATION	1	LS		
2	ASPHALT CONCRETE SURFACE COURSE, S 9.5C	1,375	TON		
3	ASPHALT PLANT MIX, PAVEMENT REPAIR, 4" DEEP	15	TON		
4	REMOVAL OF EXISTING SPEED HUMPS	4	EA		
5	REMOVAL OF EXISTING CONCRETE CURB AND GUTTER/ 5' SIDEWALK	60	LF		
6	24" CONCRETE CURB AND GUTTER	60	LF		
7	4" THK. CONCRETE SIDEWALK	0	SY		
8	REMOVAL OF EXISTING WHEEL CHAIR RAMPS	13	EA		
9	TYPE 1 CONCRETE WHEELCHAIR RAMP	10	EA		
10	TYPE 1A CONCRETE WHEELCHAIR RAMP	3	EA		
11	INCIDENTAL SEEDING AND MULCHING	1	LS		
12	WORK ZONE TRAFFIC CONTROL	1	LS		
13	MILLING ASPHALT PAVEMENT, 1" to 3" DEPTH	12,200	SY		
14	4" THERMOPLASTIC WHITE LINE, 120 MILS	75	LF		
15	24" THERMOPLASTIC WHITE LINE, 120 MILS	55	LF		
16	THERMOPLASTIC PAVEMENT MARKING SYMBOLS, ARROWS (STRAIGHT OR TURN)	4	EA		
17	THERMOPLASTIC PAVEMENT MARKINGS, "SCHOOL"	1	EA		
18	TEMPORARY PAINT PAVEMENT MARKING SYMBOLS, "SCHOOL"	1	EA		

**ALTERNATE #3
STREET RESURFACING, COLD MILLING OF ASPHALT PAVEMENTS, PAVEMENT
MARKINGS/SIGNALS**

Item No.	Item Description	Scheduled Quantities	Unit	Unit Price	Amount
1	MOBILIZATION	1	LS		
2	ASPHALT CONCRETE SURFACE COURSE, S 9.5C	1,425	TON		
3	ASPHALT PLANT MIX, PAVEMENT REPAIR, 4" DEEP	170	TON		
4	ADJUST/REPLACE WATER/GAS VALVE BOXES	2	EA		
5	ADJUST/REPLACE 24" STORM DRAIN/SANITARY SEWER CASTING AND COVER	9	EA		
6	REMOVAL OF EXISTING CONCRETE CURB AND GUTTER/ 5' SIDEWALK	20	LF		
7	24" CONCRETE CURB AND GUTTER	20	LF		
8	INCIDENTAL SEEDING AND MULCHING	1	LS		
9	WORK ZONE TRAFFIC CONTROL	1	LS		
10	MILLING ASPHALT PAVEMENT, 1" to 3" DEPTH	12,350	SY		

**ALTERNATE 4
STREET RESURFACING, COLD MILLING OF ASPHALT PAVEMENTS, PAVEMENT
MARKINGS/SIGNALS**

Item No.	Item Description	Scheduled Quantities	Unit	Unit Price	Amount
1	MOBILIZATION	1	LS		
2	ASPHALT CONCRETE SURFACE COURSE, S 9.5C	4,250	TON		
3	REMOVAL OF EXISTING CONCRETE CURB AND GUTTER/ 5' SIDEWALK	0	LF		
4	24" CONCRETE CURB AND GUTTER	0	LF		
5	4" THK. CONCRETE SIDEWALK	0	SY		
6	REMOVAL OF EXISTING WHEEL CHAIR RAMPS	16	EA		
7	TYPE 1 CONCRETE WHEELCHAIR RAMP	6	EA		
8	TYPE 1A CONCRETE WHEELCHAIR RAMP	5	EA		
9	TYPE 2 CONCRETE WHEELCHAIR RAMP	0	EA		
10	TYPE 2A CONCRETE WHEELCHAIR RAMP	1	EA		
11	TYPE 3 CONCRETE WHEELCHAIR RAMP	0	EA		
12	TYPE 4 CONCRETE WHEELCHAIR RAMP	0	EA		

13	TYPE 4A CONCRETE WHEELCHAIR RAMP	4	EA		
14	TYPE 5 CONCRETE WHEELCHAIR RAMP	0	EA		
15	RETROFIT EXISTING WHEELCHAIR RAMP WITH TRUNCATED DOMES	3	EA		
16	INCIDENTAL SEEDING AND MULCHING	1	LS		
17	WORK ZONE TRAFFIC CONTROL	1	LS		
18	CHANGEABLE MESSAGE SIGNS	6	EA/WK		
19	MILLING ASPHALT PAVEMENT, 1" to 3" DEPTH	37,000	SY		
20	4" THERMOPLASTIC WHITE LINE, 120 MILS	14,450	LF		
21	6" THERMOPLASTIC WHITE LINE, 120 MILS	150	LF		
22	12" THERMOPLASTIC WHITE LINE, 120 MILS	200	LF		
23	24" THERMOPLASTIC WHITE LINE, 120 MILS	650	LF		
24	4" THERMOPLASTIC YELLOW LINE, 120 MILS	21,400	LF		
25	6" THERMOPLASTIC YELLOW LINE, 120 MILS	640	LF		
26	THERMOPLASTIC PAVEMENT MARKING SYMBOLS, ARROWS (STRAIGHT OR TURN)	29	EA		
27	THERMOPLASTIC PAVEMENT MARKING SYMBOLS, COMBINATION ARROWS	14	EA		
28	THERMOPLASTIC PAVEMENT MARKINGS, "SCHOOL"	2	EA		
29	THERMOPLASTIC PAVEMENT MARKINGS, "XING"	2	EA		
30	THERMOPLASTIC PAVEMENT MARKING, BIKE LANE (HELMETED CYCLIST)	50	EA		
31	THERMOPLASTIC PAVEMENT MARKING, BICYCLE SHARROW (BICYCLE W/ DOUBLE CHEVRON)	10	EA		
32	GRIDSMART TRAFFIC CONTROL BELL CAMERA, INSTALLATION ONLY	2	EA		
33	GRIDSMART TRAFFIC CONTROL DIRECTIONAL CAMERA, INSTALLATION ONLY	2	EA		
34	TEMPORARY PAINT PAVEMENT MARKING SYMBOLS, "SCHOOL"	2	EA		

BASE BID:

ALTERNATE 1:

ALTERNATE 2:

ALTERNATE 3:

ALTERNATE 4:

Contractor

License No.

Signature

Date

STREET LISTING/ESTIMATES FOR ASPHALT AND MILLING – BASE BID

***Streets marked by asterisk will be milled only 1” deep**

**** Base repair on E. Arlington Blvd. will be 5” deep**

Street Name	From	To	Milling (SY)	Estimated 4” Base Repair (Tons)**	Resurfacing (Tons)	Thickness (inches)
Bluff View Ct*	Paladin Dr.	Cul-de-sac	1,720*	10	200	2
Bluff View Dr.*	Paladin Dr.	Richard Dr.	3,610*	10	410	2
Boone Ct.*	Richard Dr.	Cul-de-sac	1,040*	0	120	2
Carlson St.	Westwood Dr.	Patrick St.	1,170	0	135	2
Lindbeth Dr.	Dickinson Ave.	Cul-de-sac	2,670	10	305	2
Paladin Dr.*	W. 5 th St.	Cul-de-sac	5,850*	10	675	2
Patrick St.	Westwood Dr.	Carlson St.	2,470	0	285	2
Richard Dr.*	Paladin Dr.	Cul-de-sac	4,530*	0	520	2
Sweet Gum Ct.*	Bluff View Dr.	Cul-de-sac	430*	0	50	2
Hooker Rd.	Greenbrier Dr.	Horseshoe Dr.	7,130	0	820	2
Westwood Dr.	Dickinson Ave.	Carlson St.	3,380	0	150	2
Jefferson Dr.	S. Wright Rd.	Cedar Ln.	13,980	180	1,600	2
N. Woodlawn Ave.	E. 1 st St.	Willow St.	2,070	25	240	2
Park Dr.	N. Woodlawn Ave.	N. Woodlawn Ave.	1,410	70	165	2
E. Rock Spring Rd.	E 10 th St.	Alley	690	0	80	2
Alley	E. Rock Spring Rd.	Street End	0	0	40	2
E. Arlington Blvd.**	SE Greenville Blvd.	Red Banks Rd.	11,470	1600**	1,325	2
Red Banks Rd.	E. Arlington Blvd.	Charles Blvd.	9,750	0	1,100	2
Willow St.	N. Jarvis St.	N. Harding St.	2,620	0	305	2
York Rd.	Sir Raleigh Ct.	Oxford Rd.	1,200	0	135	2
Club Pines Dr.	S. Memorial Dr.	Greenwood Dr.	8,840	125	1,020	2
Crestline Blvd.	Club Pines Dr.	SW Greenville Blvd.	20,560	125	2,360	2
Harmony St.	Placid Way	Lindenwood Dr.	3,410	35	390	2

INTERSECTION LISTING FOR CONCRETE WORK – BASE BID

Intersection	Corner	Work to be Completed
E. Arlington at Wall St.	NE	Remove existing WCR, Install Type 2A WCR
E. Arlington at Wall St.	NW	Remove existing WCR, Install Type 2A WCR
E. Arlington at Greenville Blvd.	SE	Install 10 SY of 4" Sidewalk behind ramps

INTERSECTION LISTING FOR SIGNAL WORK

Intersection	GridSmart Bell Camera	GridSmart Advance Directional Camera
E. Arlington at Red Banks Rd.	1	2
Red Banks at Charles Blvd.	2	2

STREET LISTING/ESTIMATES FOR ASPHALT AND MILLING – ALTERNATE 1

Street Name	From	To	Milling (SY)	Estimated 4" Base Repair (Tons)	Resurfacing (Tons)	Thickness (inches)
Ellsworth Dr.	Spring Forest Rd.	Briarcliff Dr.	12,380	970	1,400	2
Trey Dr.	Ellsworth Dr.	Street End	7,270	330	820	2

STREET LISTING/ESTIMATES FOR ASPHALT AND MILLING – ALTERNATE 2

Street Name	From	To	Milling (SY)	Estimated 4" Base Repair (Tons)	Resurfacing (Tons)	Thickness (inches)
Cedar Lane	E. 10 th St.	Street End	12,200	15	1375	2

INTERSECTION LISTING FOR CONCRETE WORK – ALTERNATE 2

Intersection	Corner	Work to be Completed
Cedar at Jefferson	NW, SW	Remove existing WCR ea. corner, Install Type 1 WCR ea. corner
Cedar at Rose	NW, SW	Remove existing WCR ea. corner, Install Type 1 WCR ea. corner
Cedar at Crockett	NW, SW	Remove existing WCR ea. corner, Install Type 1 WCR ea. corner
Cedar at Tryon	NW, SW	Remove existing WCR ea. corner, Install Type 1 WCR ea. corner
Cedar at S. Wright	NW, SW	Remove existing WCR ea. corner, Install Type 1A WCR ea. corner
Cedar at Golden	E	Remove existing WCR, install Type 1A WCR
Cedar at Park Entrance	N, W	Remove existing WCR ea. corner, Install Type 1 WCR ea. corner

STREET LISTING/ESTIMATES FOR ASPHALT AND MILLING – ALTERNATE 3

Street Name	From	To	Milling (SY)	Estimated 4" Base Repair (Tons)	Resurfacing (Tons)	Thickness (inches)
Jackson Dr.	Jefferson Dr.	Jefferson Dr.	5,450	0	625	2
Summerhaven Dr.*	E. Firetower Rd.	Holden Dr.	6,900*	170	800	2

STREET LISTING/ESTIMATES FOR ASPHALT AND MILLING – ALTERNATE 4

Street Name	From	To	Milling (SY)	Estimated 4" Base Repair (Tons)	Resurfacing (Tons)	Thickness (inches)
E. 5 th St.	S. Holly St.	E. 10 th St.	37,000	0	4,200	2

**INTERSECTION LISTING FOR SIGNAL WORK
ALTERNATE 4**

Intersection	GridSmart Bell Camera	GridSmart Advance Directional Camera
E. 5 TH St. at E. 10 th St.	2	2

INTERSECTION LISTING FOR CONCRETE WORK – ALTERNATE 4

Intersection	Corner	Work to be Completed
E. 5 TH at S. Oak	NW, NE, SW	Remove existing WCR ea. corner Install: Type 4A at NW, Type 1 at NE, Type 4A at SW
E. 5 th at S. Ash	NE	Remove existing WCR, Install Type 1
E. 5 th at Forest Hill	NW, NE	Retrofit existing WCR with truncated domes
E. 5 th at Hilltop	NW, NE	Remove existing WCR ea. corner Install: Type 1 ea. corner
E. 5 th at Brownlea	NW, NE, SE	Remove existing WCR ea. corner Install: Type 1 at NW, Type 4A at NE, Type 1A at SE
E. 5 th at Hickory	NW, NE	Remove existing WCR ea. corner Install: Type 1 at NW, Type 4A at NE
E. 5 th at Hickory	SE	Retrofit existing WCR with truncated domes
E. 5 th at Laurel	NW, NE	Remove existing WCR ea. corner Install: Type 1A at NW, Type 2A at NE
E. 5 th at Sycamore	NW, NE	Remove existing WCR ea. corner Install: Type 1A at NW, Type 1A at NE
E. 5 th at Beech	NW	Remove existing WCR Install: Type 1A

THIS PAGE INTENTIONALLY LEFT BLANK