

*the City of*  
*Greendale*

2210 Normandy Drive  
Greendale, Missouri 63121

Phone: (314) 383-2577 • Fax: (314) 383-2664

**CITY OF GREENDALE, MISSOURI  
STREET CRACK SEAL PROJECT 2019**

**NOTICE TO BIDDERS**

The City of Greendale is accepting bids for asphalt street crack sealing and your firm is invited to submit a **sealed bid proposal**. All cracks ¼-inch or greater are to be sealed on all City streets per the attached map.

**Bids are due by noon Wednesday, September 11, 2019. Sealed bids may be mailed or delivered in person to the address below and will be publicly opened at 12:10 p.m.**

City of Greendale  
Attn: City Clerk  
2210 Normandy Drive  
Greendale, MO 63121


Specifications and bid sheets are enclosed. Please forward two copies of your proposal on the bid sheet and mark the envelope "PROPOSAL FOR STREET CRACK SEALING 2019."

The City reserves the right to reject any or all bids, to waive informalities or minor defects in any bid, and to reject nonconforming, non-responsive, or conditional bids. Consideration of the quality of past performance will be given for firms who have previously worked for the City of Greendale.

The Missouri Division of Labor Standards Prevailing Wage Law with regard to St. Louis County shall apply.

If you need additional information or have questions, please contact Capital Improvement Committee Chairperson Monica Huddleston, 314-223-9518 (cell).

SIGNED:

  
\_\_\_\_\_  
Tiffany Graham, Mayor

## BIDDING INSTRUCTIONS

- 1) Each bidder represents by their bid that they have read and understand the bid document.
- 2) Each bidder represents by making their bid that they have visited the site and familiarized themselves with the local conditions under which the work is to be performed. The streets being crack-sealed are residential streets and an alley.
- 3) Bidding Procedures:
  - a. Bid must be prepared on the form provided.
  - b. A bid is invalid if it has not been deposited at the designated location prior to the time and date for receipt of bids.
  - c. Each bidder shall state the length of time necessary for substantial completion of the work after receiving notice from the City to proceed with this work.
  - d. Bids received by fax or email will not be considered or openly read.
  - e. Bids for this project will be received in accordance with the invitation for bid directions.
- 4) Award of Contract:
  - a. Contract will be awarded as soon as possible to the responsive bidder submitting the best bid, provided:
    - i. Evidence of the experience, qualifications and financial responsibility of each bidder and their subcontractors, if any, and the time of completion are acceptable to the City.
    - ii. The total of acceptable bid is within the City's financial budget for the project.
    - iii. Work shall begin no later than thirty (20) calendar days after notice to proceed.
    - iv. All crack sealing shall be done between September 1, 2019 and November 1, 2019, dependent upon weather conditions. The City may, at their discretion, extend the project beyond the November 1<sup>st</sup> deadline.
- 5) Performance Bond Required – Prior to starting the work, the winning bidder will have to secure a performance bond in an amount equal to the job quoted price.

## SPECIFICATIONS FOR STREET CRACK SEALING PROJECT 2019

### A. SCOPE OF WORK

The Contractor shall provide all labor, equipment, material and all other work service cost to apply the crack sealant to all street cracks ¼-inch or more in width.

The work and materials to be furnished shall conform to the St. Louis County Specifications for Road and Bridge Construction, Section 406, as updated 8/1/2017 and available on [www.stlouisco.com](http://www.stlouisco.com) (Transportation).

The Contractor is to provide all necessary traffic control measures and signage.

The Contractor is to provide all 'no parking' signs, or notify the city of where such signs will be needed in the event the City can provide such signs, if the Contractor needs for vehicles to be off the streets on any given day. The City requires 3 (three) days notice of the areas/streets to be crack-sealed so notice can be posted for residents to comply.

The Contractor shall clean up and dispose of all debris created from the work done in conformance with the St. Louis County Waste Management code, the ordinances of the City of Greendale and applicable state laws.

Where necessary, the contractor shall adjust existing manhole covers/frames, water and gas valves to grade, and shall be responsible for notifying and locating all utilities as needed in the work areas prior to performing work. The contractor shall take all necessary precautions to prevent damage to pavements (driveway aprons, sidewalks, streets, curbs, handicap accessible ramps) adjoining the work areas and will, at no cost to the City, be responsible for repairing any damage to same.

The Contractor shall provide all necessary signage, barricades and cones (including message board signage as needed) and maintain traffic control measures at all times.

Emergency service vehicles (police, fire, ambulance) must have resident access at all times during the project. The contractor is to notify all residents within the project area at least 3 working days prior to any access interruption. The Contractor must also provide access to Waste Management refuse vehicles on Wednesdays, all day.

The Contractor is to always leave the project site accessible after each day's work and on weekends and holidays. The contractor shall provide access into and out of residential areas.

The Contractor is to use only paved surfaces for laydown areas if needed. The Contractor is prohibited from using any grassed areas or yards for storage of equipment, vehicles or materials. Suggested laydown area is at the south end of Rockdale, near the gates/creek area as it is lit at night and there are security cameras.

The Contractor must not start/operate any noisy equipment or work before 8:00 a.m. Monday through Friday as the City has a noise ordinance.

Should there be delays and extensions of project time in the progress of the work, by any neglect of the City or of its agents, or by any other contractor hired by the City, or by changes ordered in the work or by strikes, lockouts, fire, inclement weather, unusual delaying transportation, unavoidable casualties, or any causes beyond the Contractor's control, the City will consider justification of the delay. Then the time of completion may be extended by the City. Requests for delay approval must be made in writing by the Contractor to the Mayor, City of Greendale, 2210 Normandy Drive, 63121.

#### B. CRACK SEALING LOCATIONS

A map of the City of Greendale streets is attached. The streets where sealing of all cracks  $\frac{1}{4}$  inch in width and wider must take place are:

- a. Alley parallel with St. Charles Rock Road, beginning at Normandy Drive and ending behind Hill and Sons contractors building, at Zion Cemetery property. It crosses Atwater and Colfax.
- b. Leadale
- c. Atwater
- d. Colfax
- e. Boswell
- f. Rockdale
- g. Marillac
- h. Hillsdale
- i. Greendale Dr

### C. EXCLUDED AREAS

There are some areas of most Greendale streets that require more extensive repairs like asphalt dig-out and patching and/or mill and pave. **These areas have been visibly paint-marked off and should not be crack sealed.** The contractor is to exclude these areas from the bid price submitted.

### D. NO ADDITIONAL CHARGE ITEMS:

There shall be no additional charge to the City for the Contractor to provide labor, equipment and materials for:

- Protecting work from rain and flood damage
- Clean streets and public safety concerns
- Necessary construction zone signage, barricades, cones and flagpersons
- Contractor's damage (if any) to pavements or private property adjoining the designated work areas, including city tree lawns, curbs, driveway aprons and residential driveways.
- Replacement of vandalized equipment, material or crack sealant
- Protection of homeowners flowers, city trees and shrubs that abut pavement and the replacement of such damaged items as required
- Disposal of material
- All other miscellaneous work as necessary to provide a complete and satisfactory job

Failure by the contractor to undertake work for the protection and welfare of the general public can result in the City forces undertaking the work and back charging the contractor at prevailing wage rates.

### E. INTERPRETATION OF BID DOCUMENT

Any interpretation or correction of the bid request document will be made only by addendum duly issued by the city, and a copy of such Addendum will be posted to the City web site, [www.greendale-mo.us](http://www.greendale-mo.us). The City will not be required to mail addenda to anyone. It is the responsibility of each bidder to review the City website for any addenda prior to submitting their response. The City will not be responsible for any other explanation or interpretation of the Bid Request/RFP.

## F. GUARANTEE

All work on this project shall be guaranteed to be free from defects in workmanship and materials for a period of one year from the date of completion of the entire project. This is not a maintenance guarantee. The Contractor shall repair any defective areas within ten (10) days after receiving notice of this defect. Should repair work not be done by the Contractor, the City will make necessary repairs and back charge the Contractor.

## G. INSURANCE/BONDING REQUIREMENTS

The contractor shall purchase and maintain such insurance as will protect them and the City as an additional insured from claims set forth below which may arise out of or result from the contractor's execution of the work, whether such execution be by her/himself or by a subcontractor or by anyone directly or indirectly employed by anyone for whose acts any of them may be liable:

- Claims under Workmen's Compensation disability benefit and other similar employees' benefit acts.
- Claims for damages because of bodily injury, sickness or disease, or death of any person other than his employees.
- Claims for damages because of bodily injury, occupational sickness or disease, or death of his employees.
- Claims for damages insured by personal injury coverage which are sustained by any person as a result of an incident directly or indirectly related to the employment of such person by the contractor, or by any other person.
- Claims for damages because of injury to or destruction of tangible property, including loss of use resulting therefore.

The contractor shall provide Certificates of Insurance acceptable to the City prior to commencement of the work. Certificates shall contain a provision that coverage afforded under the policies will not be cancelled unless at least fifteen (15) days prior written notice has been given to the City.

The contractor shall procure and maintain, at his own expense, during the contract time, general public liability and property damage insurance, including vehicle coverage. Insurance shall be written with a liability limit of not less than \$2,000,000 for all damages arising out of bodily injury, including death, at any time resulting there from sustained by any one person in any one accident; and limit of liability of not less than \$2,000,000 aggregate for any such damages sustained by two or more persons in any one accident; not

less than \$500,000 liability limit for any such damage sustained by any one person or two or more persons in any one accident.

#### H. BID SUBMISSION AND COMPLIANCE

Bid documents include the following affidavits that are required before and/or after the work has been completed:

- Affidavit of Work Authorization – RSMo.285.530
- Affidavit of OSHA Training Compliance – RSMo.292.675
- Affidavit of Compliance with the Prevailing Wage Law – RSMo.290.10
- Affidavit of American Products Purchase – RSMo.575.040
- Final Pay Affidavit
- Non Collusion Affidavit
- E-Verify

The above list is not intended to be exhaustive. The compliance requirement of this provision is continuing and must be satisfied during the entirety of the bid process and any future agreement. It is the sole responsibility of the successful bidder to ensure that this provision is satisfied, and the City assumes no liability or responsibility for the failure to comply.

Each bid must be accompanied by a certified check, a cashier's check, or bid bond payable to the City of Greendale in the amount of ten percent (10%) of the amount of the bid as a guarantee that the successful bidder will enter into contract within ten (10) days after award is made. The City will return the bond/check to unsuccessful bidders in a timely manner.

Two hard copies of the bid must be submitted in a sealed envelope with the words "**PROPOSAL FOR STREET CRACK SEALING 2019**" clearly printed on the envelope.

**Bids are due by noon Wednesday, September 11, 2019. Sealed bids may be mailed or delivered in person to:**

City of Greendale  
Attn: City Clerk  
2210 Normandy Drive  
Greendale, MO 63121

Bids received by fax or email will not be considered or openly read.

Any person or firm may withdraw their bid by written request at any time prior to the scheduled time of the bid opening. All bids submitted must remain valid for a least 90 days after submittal date. A separate contract between the City and the chosen Contractor will be required/signed and presented within ten (10) days of award of contract.



PROPOSAL/BID FORM  
CITY OF GREENDALE, MISSOURI  
**STREET CRACK SEAL PROJECT 2019**

PROPOSAL OF:

\_\_\_\_\_  
(Company Name)

\_\_\_\_\_  
(Address)

\_\_\_\_\_  
(City, State, Zip Code)

\_\_\_\_\_  
(Email Address)

\_\_\_\_\_  
(Phone)

The bidder hereby agrees to perform the work in accordance with the specifications, provide insurance as specified, and understands the quantities of work may be increased or decreased at the option of the City.

BID PRICE OF TOTAL PROJECT: \$ \_\_\_\_\_

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Title)

\_\_\_\_\_  
(Printed Name)

\_\_\_\_\_  
(Date)

(Corporate Seal, if Bid is by a corporation)

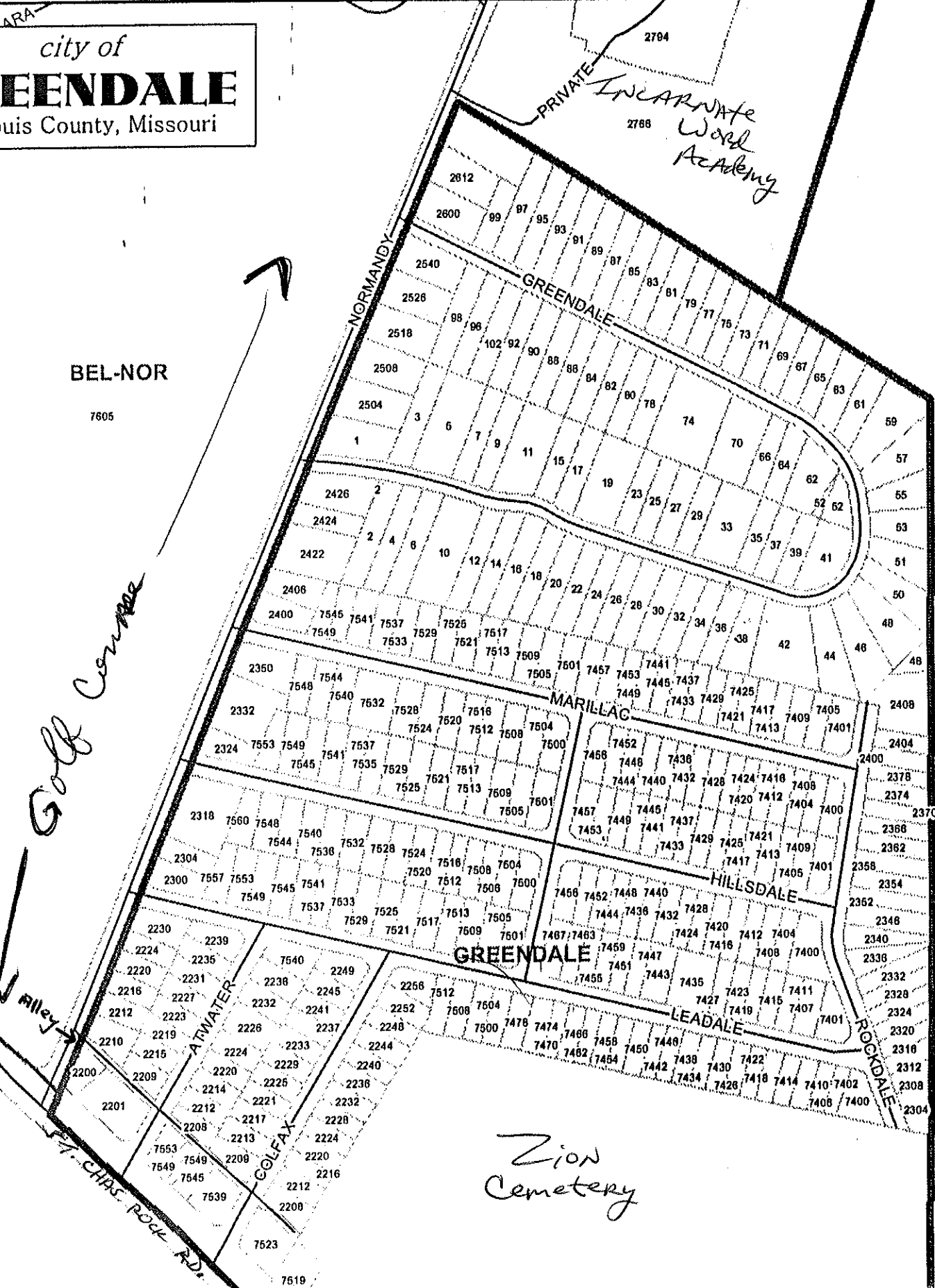
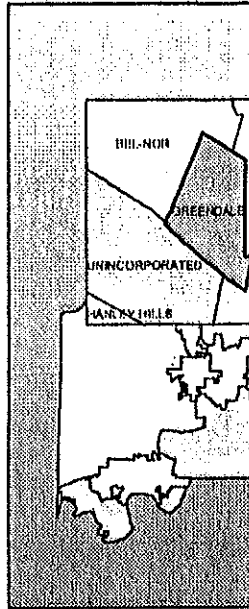
## CITY OF GREENDALE STREET DIMENSIONS

ROAD SEGMENT	LIMITS FROM - TO	WIDTH	LENGTH	AREA	UNIT COST	F
Leadale Dr	Normandy - Rockdale	29	1766	5497		
Alley	Normandy - Atwater	18	230	460		
Alley	Atwater - end of maint	18	400	800		
Colfax Ave	Rock Road - Leadale	29	705	2272		
Atwater Ave	Rock Road - Leadale	29	570	1837		
Hillsdale Dr	Normandy - Boswell	29	810	2610		
Hillsdale Dr	Boswell - Rockdale	29	640	2062		
Boswell Dr	Leadale - Marillac	29	590	1801		
Greendale Dr	Normandy - Normandy	22	2710	6624		
Marillac Dr	Normandy - Rockdale	29	1410	4543		
Rockdale Dr	dead end - dead end	29	945	3045		
TOTALS		290	10716	345293		

# St. Louis County OFFICIAL MAP

## CITY OF GREENDALE

city of  
**GREENDALE**  
St. Louis County, Missouri



SE. Vincent Park

Zion Cemetery

BEL-NOR

7605

BEL-NOR

GREENDALE

UNINCORPORATED

HARKYVILLE

7619

**STANDARD SPECIFICATIONS**  
**FOR ROAD AND BRIDGE**  
**CONSTRUCTION**



**St. Louis County, Missouri**  
**Department of Transportation**

October 1, 2018

## **Section 406     Joint and Cracksealing**

**406.1 Description.** Joint and cracksealing asphalt and concrete pavements, curbs and driveways.

**406.1.1** This item shall consist of the thorough cleaning with suitable tools designed for neatly cleaning and sealing existing cracks and joints and new sawed joints in both asphalt and concrete pavements, curbs and driveways. This work shall include the proper cleaning of joints and cracks with the use of:

- 1) Handwire or mechanically powered wire brush systems;
- 2) Routers;
- 3) Sand Blasting;
- 4) Power Driven Concrete Saw;
- 5) Air Compressor equipped with heat wand.

**406.1.2** This work shall also include removal of all waste material produced in the joint or crack sealing process. A polymer based hot poured crumb rubber elastic-type liquid sealer in accordance with these specifications shall be furnished and installed by the contractor.

**406.1.3** For concrete replacement operations, streets scheduled for joint and crack sealing shall consist of all those being repaired under the slab removal and replacement items of the contract, regardless of the amount of slab replacement work performed. All pavement joints, both new and existing, and all existing cracks are to be cleaned, dried and sealed within the limits indicated in the contract.

**406.2 Materials.** Sealant material shall be in accordance with Section 1057.5, Joint and Crack Sealer, Hot-Poured Elastic Type.

**406.3 Equipment.** Sealing equipment shall be in accordance with Section 502.13.7.3, Equipment.

### **406.4 Construction Requirements.**

**406.4.1 Preparation of Cracks and Joints.** Immediately before installation of the sealant, the joints shall be thoroughly routed and cleaned until all laitance, curing compound, filler and protrusions of hardened concrete are removed from the sides and upper edges of the joint spaces to be sealed. After this cleaning and immediately prior to filling, the joints shall be blown out with compressed air and left completely free of loose pavement, dust, debris, oil and water.

**406.4.2** Non-compressible and foreign materials shall be hand-loosened in the existing concrete and asphalt joints to a minimum depth of  $\frac{3}{4}$  inch by the use of handwires and mechanical brush systems. A heat lance will be required to remove all forms of moisture ahead of the sealing operation. The Contractor shall provide adequate details, explaining and showing the extent of the clean out work he proposes to do at the existing joints and cracks, along with the methods, equipment and construction procedures he intends to employ. It is not intended to limit the method of joint and crack cleaning to the use of handwires and mechanical brush systems. Other cleaning systems may be necessary to

thoroughly clean and dry cracks and joints. All joints and cracks shall be blown out with an approved air compressor.

**406.4.3** All longitudinal, transverse, edge and/or entrance joints and all interslab cracks shall be sealed with a polymer based hot poured crumb rubber elastic-type liquid crack sealer meeting the requirements as specified in the Materials section of this Special Provision. These joints and cracks shall be clean, dry and dust-free prior to applying sealer.

**406.4.4 Separating and Blocking Media.** At wide joints or cracks with openings in excess of  $\frac{3}{4}$  inch or when voids are evident below these joints or cracks, the Contractor shall provide the labor, equipment and material to install an approved filler material. This material shall be readily compressible, non-shrinkable, non-reactive with the sealant and non-absorptive, such as extruded butyl or polychloroprene foam rubber. The blocking medium shall not melt or soften at the pouring temperature of the sealant, shall fit snugly in the reservoir and shall not be stretched during insertion into the joint. Placement of the separating or blocking media, when required, shall be placed with a double-wheeled, steel roller to the depth below the joint surface of the pavement equal to the width of the cleaned joint or as directed by the Engineer.

**406.4.5 Rate of Progress.** The stages of joint preparation include cleaning of joint faces, air pressure cleaning of joints, and placement of separating or blocking media. Any joints routed and not sealed the same day shall be subject to re-cleaning and drying.

**406.4.6** Joint sealing shall include all joints and cracks in the concrete or asphalt pavement, including those joints through the curb; the joints at the back of the curb at approaches; the joints at the back of curb at abutting sidewalks; the joints at the radius return abutting pavement of non-sealed intersecting streets; at joints between inlet sumps and sills; the joint at the intersection of the base of curbs and top of bituminous asphalt pavement and at all locations where expansion joint filler material has been placed, such as between new approaches and pavement, between new approaches and sidewalk, and across pavement where full-width pavement replacement is occurring. No bridge deck joints will be sealed.

**406.4.7** The Contractor shall be responsible for the daily cleanup of old blown-out material and debris and for the final cleanup of excess or unused material or debris from the right-of-way within forty-eight (48) hours after the completion of a project site, or as directed by the Engineer. Failure to comply with this specification will result in the suspension of work, the charging of working days while work is suspended, and the application of liquidated damages as specified by the contract if the charging of work days or completion date exceeds the contract or change order amount.

**406.4.8** The Contractor shall provide, install and maintain temporary advisory signing as required by the most recent edition of the Manual of Uniform Traffic Control Devices (MUTCD) or as directed by the Engineer. The Contractor shall provide protective measures to prevent tracking of sealant material onto private and personal property. Failure to comply with this specification shall result in the suspension of work, the charging of working days while work is suspended, and the application of liquidated damages as specified by the contract if the charging of work days or completion date exceeds the contract or change order amount.

**406.4.9 Application of Crack Sealing Material.** Hot poured liquid crack sealant material shall not be installed until the cleaned and dried joints or cracks to be sealed have been inspected and approved by the Engineer. The sealant application temperature shall be as recommended by the sealant manufacturer, but the temperature does not exceed the safe

heating temperature. The temperature within the joint wall shall be a minimum of 50°F and rising at the time of application of the material. All joints and cracks must be dry, clean and free of moisture. The sealant shall not be applied when the following weather conditions exist:

- 1) In fog or on damp pavement;
- 2) When the air and pavement temperature in the shade is less than 40°F unless permitted by the Engineer.

**406.4.10** If approved by the Engineer, application of sealing material may continue when pavement or air temperature is between 32°F and 40°F. The contractor, at no additional cost to the County, shall perform the following additional steps prior to crack or joint sealing under these conditions:

- 1) Apply a heat lance that puts no direct flame on the pavement to warm the pavement joint or crack to a minimum crack or joint temperature of 50°F at the time of sealing;
- 2) Maintain product temperature at the maximum safe heating temperature;
- 3) Insure that the joints or cracks are clean, dry and free from ice and other contaminants at the time sealant is applied.

**406.4.11** The Engineer may suspend and reject work when the joint is not clean, dry or when the sealant material fails to adhere to the crack or joint.

**406.4.12** The crack and joint seal material shall be applied with an appropriate applicator with a disk attachment specifically designed for this type of work. The applicator shall be operated in such a manner so as to assure that:

- 1) Joints shall be filled from the bottom up to within level of the pavement surface, plus or minus 1/8 inch, as shown on the Construction Details when included in the plans, or as directed by the Engineer.
- 2) Cracks shall be filled to a slightly overfilled condition and then immediately leveled to a concave shape with a U- or V- shaped squeegee to provide a "band-aid" type effect not to exceed 1/8 inch high above the pavement surface and with the edges feathered out to extend no greater than 2 inches and no less than 1 inch beyond each crack/joint edge.
- 3) The procedure for routing, cleaning and sealing longitudinal random cracks will be the same, except the crack reservoir shall be sealed flush rather than providing an over sealed or "band-aid" type effect.
- 4) Excess or spilled sealant material on the pavement surfaces shall be promptly removed and discarded. Material that remains in the applicator at the end of the day's operations shall be withdrawn and wasted.

**406.4.13** Traffic shall not be permitted over newly sealed pavement joints or cracks until the sealant is cured to a tack free condition or until authorized by the Engineer. When necessary to prevent vehicle or pedestrian tracking, the completed sealant surface shall be treated with one of the following:

- 1) Dusted with fine sand, Portland cement, or mineral filler;
- 2) Covered with a biodegradable surfactant with a minimum water content of 80% (such as CRAFCO'S DETACK, or approved equal; or
- 3) Covered with tissue paper.

**406.4.14 Crack Sealing Quality Control.**

- 1) Joints or cracks which, when filled with sealant material, indicate the presence of non-visible water, shall be resealed at the Contractor's expense when the joint is properly cleaned and dried.
- 2) Band-aid applications that exceed the height and width specified shall be removed, the joint or crack re-cleaned and resealed at the Contractor's expense.
- 3) The Contractor, at his expense, shall promptly remove excess or spilled sealant material on the pavement surfaces. The Contractor's removal method shall be submitted to the Engineer for review, revision and approval. The County will withhold payment, of up to 100%, of the affected areas until excess or spilled sealant is removed to the satisfaction of the Engineer.
- 4) The Contractor, at his expense, shall reapply sealant to low areas where sealant has settled or where too little material was applied within the height and width specified.
- 5) The Engineer will check adhesion randomly by pulling up the cooled sealant. The Contractor, at his expense, shall remove, clean, dry and reseal all unbonded areas to the height and width specified.

**406.4.15 Seasonal Sealant Limitations.** When joint and crack cleaning and sealing operations are being performed in conjunction with concrete repairs, those operations will not be permitted on any site until after all work has been completed on that site. Unless otherwise approved by the Engineer, the Contractor shall be responsible for arranging his manpower and equipment efforts to finish all work including crack sealing on each site before continuing to the next site. In addition, it is required that any streets where concrete repairs are complete, be crack sealed on or before November 15<sup>th</sup> unless specific authorization is granted by the Engineer to work beyond that date.

**406.4.16 Method of Measurement.** Measurement of individual joints and cracks will not be made. The ordered and accepted cleaning, separating or blocking media, and sealing of pavement joints and cracks will be measured along the centerline roadway surface to the nearest 0.01 mile.

**406.4.17 Basis of Payment.** The quantity of cleaning and sealing of pavement joints and cracks ordered and accepted, measured as noted above, will be paid for, to the nearest 0.1 mile, at the contract unit price. This shall be full compensation for the furnishing of labor, equipment, materials, tools, personal protective equipment, traffic control, cleanup, providing and placing filler material, drying and resealing, separating or blocking media, and incidentals necessary to clean and seal, as required, all designated asphalt and Portland Cement Concrete joints and cracks.