

## **REQUEST FOR PROPOSALS PARKING LOT**

Sussex County is requesting proposals for pavement surface treatment, striping, and the painting of handicap markings at the Woodland Park in Seaford, Delaware. Woodland Park is located at the site of the former Woodland Golf Park at 27866 Woodland Road, Seaford, DE (Tax Map ID 5-31.00-15.00 Parcel 21). Interested parties should have a minimum of five (5) years' experience performing pavement sealcoating for public and commercial parking facilities.

A site plan and drawings are included as part of this solicitation.

### **MATERIALS**

- A. Coal Tar Pitch Emulsion.
  - 1. Coal Tar Pitch Emulsion must be in compliance with the ASTM Specification D3320.
  - 2. The material shall be prepared from the straight run high temperature coke-oven tar meeting the requirement of ASTM D-490.
    - a. Petroleum tar and oil and water gas tars shall not be used even though they comply with ASTM D-490.
  - 3. The material shall be homogeneous and show no separation or coagulations of components that cannot be redispersed with moderate stirring.
  - 4. The material shall be capable of application and complete coverage by squeegee, brush, or by approved mechanical methods to the bituminous surface at a spreading rate of 0.18 to 0.20 gallons (undiluted) per square yard in 2 coats application.
  
- B. Crack Filler:
  - 1. Must be certified by the supplier for compatibility with the sealcoating material. Cold pour crack fillers, STAR STA-FLEX and premium grade STA-FLEX SUPREME or equal, are recommended.
    - a. Hot pour rubberized crack fillers may also be used.
  
- C. Primers: Must be certified by the sealcoat manufacturer for compatibility with the sealcoating material.
  - 1. Oil Spot Primers: Must be certified by the sealcoat manufacturer for compatibility with the sealcoating material. STAR S.O.S. Primer/Sealer is recommended. Other oil spot primers of equivalent quality may also be used.
  - 2. Specialty Coatings/Primers may be recommended by the manufacturer for problematic areas, e.g. rust streaks in the pavement, excessive surface contamination with oil, grease, fat etc. STAR ONE STEP, pre-diluted with water (in 1:2 volume ratio; product: water) is recommended. It is also recommended for fresh laid asphalt patches and polished aggregate.
  
- D. Sand shall be clean hard and irregular silica sand which is free of clay, dust, salt, and organic matter.
  
- E. Water shall be clean and potable within a temperature of 50-80 deg F.

## RECOMMENDED MIX DESIGN

- F. If Bulk STAR-SEAL SUPREME pavement sealer is used, it shall be diluted at a 25-30% with clean potable water.
- G. Additionally, three (3) lbs. sand per gallon of bulk sealer shall be added to STAR- SEAL pavement sealer for each coat (equaling 6 lbs sand per gallon bulk applied to the surface).
  - 1. Sand Slurry Preparation
  - 2. Add the required amount of water to the sealer in the mixing tank and mix thoroughly.
  - 3. Keep the mixer running at a moderate rate.
  - 4. Add the sand in a steady stream of about one (100 lbs.) bag/min.
  - 5. After adding all the sand, close the lid of the mixing tank and raise the speed of the mixer to "high" setting.
  - 6. Mix for ten minutes to allow the contents of the tank to mix thoroughly and break any sand clumps.
  - 7. Reduce the agitator speed to moderate setting and keep running. If the mixer is shut off during transport to the job site, it must be restarted and contents mixed for at least 10 minutes before the application begins. Keep the agitator running during the entire application period.

## EXECUTION

- Clean the surface thoroughly to remove all foreign debris (dirt, gravel, silt, etc.) using air blowers or by flushing with water. Embedded dirt and silt shall be removed with steel bristle hand brooms. Any grass shall be removed from all cracks and edges.
- Treat all grease and oil spots by scraping off the excess oil and dirt away with a wire bristle and coat with an oil spot primer.
- Install cold patch material to minor potholes.
- Seal cracks with crack sealant:
  - The sealant should be applied at a minimum surface and air temperature of 50 deg F.
  - Routing - If applicable.
    - a. Cracks are routed to a minimum width of 3/8 in. and a minimum depth of 1/2 in.
  - Cracks or joints should be cleaned to be free from all foreign debris using mechanical wire brushes.
  - To ensure dryness of the crack and to guarantee adhesion of the sealant to the crack wall, a heat lance using 3000 F compressed air will be used.
  - Install backer rod when necessary to ensure seal.
  - Install crack sealant using pour pots or speed banders whichever is appropriate.
  - Apply sand to surface of crack sealant in high traffic conditions so that no tracking will occur.

## APPLICATION

- The agitator of the sealer tank should be kept on to keep the material in suspension at all times. The machine should be equipped with a fog bar to be used for pre-dampening if the pavement temperature exceeds 90 F.

- Coat the edges first. Pour a continuous ribbon of STAR-SEAL mix along the pavement edge 6-12 inches from curbing.
- Draw STAR-SEAL mix away from the pavement edge by pulling a squeegee or brush perpendicular through the ribbon of material at a slight angle. Walk parallel to the pavement edge. Repeat the process in reverse direction pulling the excess material toward the center of the pavement. For best results use squeegees followed by a brush.
- After trimming (5.3) apply sealer over the remaining area using either a squeegee or spray application. A self-propelled machine that squeegees and brushes the sealer into the pores of the pavement is recommended but not always available.
- Allow the first coat to dry sufficiently to take light traffic scuffing. It will take a few hours under ideal drying conditions (75-80 Deg. F. & 50% relative humidity).
- After trimming (5.3) use machine with spray wand or spray bar apparatus that deposits the material according the coverage rates recommended for the specified job. The spray application will take out any squeegee marks and give a uniform appearance and is recommended for the second coat.
- The completed application shall be allowed to cure at least for 24 hours and then tested for traffic ability prior to opening for regular use.
- Quantities of the material will vary according to porosity and texture of the pavement. The guideline quantities expressed as the amount of undiluted STAR-SEAL are as below:
  - 1st coat - 0.10-0.12 gal/sq.yd.
  - 2nd coat - 0.06-0.08 gal/sq.yd.

#### PAVEMENT MARKING

- Do not apply pavement-marking paint until for at least 72 hours after seal coat application is complete.

#### COMPLETION OF WORK

- Work area shall be cleared of all construction debris and the area left clean upon completion of work.

#### **INSTRUCTIONS TO BIDDERS:**

- Bids shall be submitted to Ms. Juel Gibbons on or before **2pm EST, Monday, March 21, 2016**, Third Floor, Sussex County Administration Building, 2 The Circle, P.O. Box 589, Georgetown, DE 19947, ATTN: Juel Gibbons. Bids may also be submitted by email ([jjibbons@sussexcountyde.gov](mailto:jjibbons@sussexcountyde.gov)), or via fax to 302-855-7799.
- All bids shall remain valid for 30 calendar days from the time set for bid opening. A bidder may withdraw their bid after it has been submitted, only if the request to do so has been submitted in writing and received prior to the time set for bid opening.

- All bidders are hereby notified that Sussex County Engineering Department reserves the right to reject any or all bids, and to waive informalities at its discretion.
- A Bid Bond, Performance Bond and Payment Bond are not required for this project. In lieu of the aforementioned bonds, a Maintenance Bond for one (1) year following Substantial Completion of the project shall be required. The Maintenance Bond is for the one year warranty period, starting at Substantial Completion date.

**SCHEDULE:**

A purchase order will be provided to the vendor after the proposal is awarded. The work must be completed within **four (4) weeks** from Return Receipt of Approved Submittals.

**BID FORM:**

LINE #	QTY	Units	DESCRIPTION	UNIT PRICE	LINE TOTAL
1	21,200	S.F.	PAVEMENT SURFACE TREATMENT		
2	2,500	L.F.	PARKING LOT- PAINT STRIPING		
3	3	Each	PARKING LOT - PAINT HANDICAP MARKING		
			TOTAL BID:		