



City of Prineville

387 NE THIRD STREET ♦ PRINEVILLE, OREGON 97754

DEPARTMENT OF PUBLIC WORKS

ENGINEERING DEPARTMENT

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City of Prineville 2011 Seal Coat Project

The City of Prineville is seeking services related to the sealing of approximately 120,136 square feet (sq. ft.) of City Streets. The following streets shall have the existing asphalt wearing surface cleaned and have two coats of seal coat applied by squiddy or buggy.

- NW Meadow Lakes Dr. from NW 2nd St to the gate at Meadow Lakes Golf Course.
 - 77,520 sq. ft.
- NW Fairway Court
 - 17,962 sq. ft.
- NW Ivy Court
 - 24,654 sq. ft.

Bids will be received on this form until 2:00 PM PDST on the 10th day of June, 2011. Proposals shall be addressed as follows:

Scott Smith
City of Prineville
City Hall
387 NE 3rd St
Prineville, OR 97754

Bids will be received via hand deliver, mail or by fax to (541) 447-5628. Please contact Scott Smith, City of Prineville Street Superintendent at 541-419-3165 with any questions.

Bids will be publicly opened at 2:00 PM PDST on the 10st day of June, 2011 and the apparent low bidder will be determined. The start date for this project shall be no sooner than the 20th day of June, 2011 with a completion date of no later than the 30th day of June, 2011. The successful bidder will be required to enter into a contract with the City of Prineville.

All work and materials must comply with the adopted City of Prineville Standard Specifications except as superseded in the following special conditions. Copies of the Standard Specifications are available at the City of Prineville Planning Department, City Hall for \$80.00. The Standard Specifications are also available on the City of Prineville website www.cityofprineville.com

Special Conditions:

- All work shall comply with the attached Recommended Performance Guidelines for Rubber Surface Seal Specifications.
- Access must remain open to the Meadow Lakes Golf Course at all times.

<u>Item No.</u>	<u>Quantity and Description</u>	<u>Unit of Measure</u>	<u>Unit Price</u>	<u>Total Price</u>
1.	Crack seal and seal coat 120,136 sq. ft	sq. ft.	_____	_____
2.	Traffic Control	Lump Sum	_____	_____
3.	Mobilization	Lump Sum	_____	_____
			Total Price:	_____

Company: _____

Address: _____

By: _____
(Signature of Authorized Official)

Date: _____

By: _____
(Type or Print Name)

Phone: _____

**RUBBER SURFACE SEAL SPECIFICATIONS FOR APPLICATION ON
COUNTY/CITY PUBLIC RIGHT-OF-WAY**

00225.01(c) Standards

Follow the Sign Policy and Guidelines, the Manual on Uniform Traffic Control Devices (MUTCD), these specifications and special provisions and ODOT Standard Drawing Numbers RD900, RD905, RD910, and RD935 in designing, applying, installing, maintaining and removing traffic control devices.

00225.05 Contractors Traffic Control Plan (TCP)

Proposed TCP for the project area showing all TCM plus either 1) proposed changes to the detour plan shown on the project plans or 2) written acceptance of the detour plan.

00225.80 General

Delete paragraph (b) of this subsection and add the following paragraph:

(b) There will be no separate measurement for temporary protection and direction of traffic, temporary signing, temporary barricades, temporary traffic delineation and pilot cars.

00225.81 through 00225.86 and 00225.88

Delete these subsections.

00225.90 General

Delete the entire contents of this subsection and add the following paragraphs:

No separate payment will be made for temporary protection and direction of traffic, temporary signing, temporary barricades, temporary traffic delineation and pilot cars; the costs for these items, if any are provided, will be included in the payments at the contract unit prices per square yard for Rubber Surface Seal@ \$ _____

When the bid schedule indicates separate payment for flaggers, the accepted quantities, measured as provided in 00225.87, will be paid for according to 00225.97. When the bid schedule does not indicate separate payment for flaggers, no separate payment will be made; the cost for flaggers, if any are provided, will be included in the payments at the contract unit prices per square yard for Rubber Surface Seal@ \$ _____

The accepted quantities, measured as provided in 00225.87 through 00225.88, will be paid for at the contract lump sum amount or contract unit price per unit of measurement for each of the pay quantities listed in the Bid Schedule and in approved change orders. Payment will be payment in full for furnishing, installing, moving, operating, maintaining, and removing the materials and devices, and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work as specified.

00225.91 through 00225.96 and 00225.98

Delete these subsections.

SECTION 309 - RUBBER SURFACE SEAL

Section 309, which is not in the Standard Specifications, is included in this project by special provision.

309.01.00 Description

The work consists of surface preparation including but not limited to street cleaning, curb line cleaning, trimming vegetation, moss removal and then application of a Rubber Surface seal emulsion.

The streets to be sealed are shown on the maps and in the Project Summary List (attached).

309.1.01 Surface Preparation

The Contractor shall sweep, back pack power blow, flush, and remove all vegetation on all streets not more than 24 hours in advance of beginning work on the streets. All vegetation overhanging the curb line, including vegetation obstructing the vertical clearance, shall be trimmed by County/City crews and removed to facilitate the application of the surface seal.

Immediately prior to applying the surface seal product, the surface including the curb line shall be cleaned of all loose material, silt spots, vegetation, moss, oil/diesel spotted areas and other deleterious material by Contractor. Any standard cleaning method used to clean pavements will be acceptable, except for water flushing which will not be permitted in areas where considerable cracks are present in the pavement surface.

309.2.00 Materials

309.2.01 Rubber Surface Seal

Rubber Surface Seal shall meet the following requirements:

(1)

ASPHALT CEMENT TESTING (Rubber Surface Seal)		
Solubility % 3-set average	ASTM D 5	MIN - 98.5 MAX - NONE
PENETRATION 77% 100g 5 Sec. Dmm	ASTM D 5	MIN - 15 MAX - 55
Softening Point, Degrees Fahrenheit	ASTM D 36	MIN - 130 MAX - 160
Ground Whole Rubber Tire Rubber Percent (%)	Must submit certification	Min - 5% Max - 15%

(2)

PERFORMANCE CRITERIA TESTING		
Wet Track Abrasion	ISSA (TB-100)	Less than 5%
Accelerated Weathering Test	ASTM G 154	PASS
Fuel Resistant	ASTM D 2939.25	25
Rubber Surface Seal Consistency	T106	2 - 3 cm
Wet Stripping	T114	Pass
Compatibility	T115	Pass
Cohesion Test	T139	20 kg-cm within 1 hour

- (3) WATER AND ADDITIVES - Water shall be of such quality that the asphalt will not separate from the emulsion before the surface seal is in place. If necessary for workability, a set-control agent, that will not adversely affect the Surface seal, may be used.
- (4) MIX DESIGN - At least 7 working days before Rubber Surface seal placement commences, the contractor shall submit to the county/city representative for approval a laboratory report of tests and proposed mix designs covering the specific materials to be used on the project. The percentage of asphaltic

emulsion proposed in the mix design shall be within the percentage range specified in subsection 309.2.01(6) "Proportioning".

- (a) The mixing test must pass at the maximum expected air temperature at the project site during application.
- (b) The tests must use project source asphalt emulsion and set-control agents if used.

The original laboratory report shall be certified and signed by the laboratory that performed the tests and mix design and shall show the results of the tests on individual materials, comparing their value to those required by the specifications. The report shall clearly show the proportions of filler (min. and max.), water (min. and max.), asphalt solids, as well as the percent of ground whole tire rubber. Previous laboratory reports covering the same materials may be acceptable provided they are made during the same calendar year.

Once the proportions of materials to be used are approved by the county/city representative, no substitution of other materials will be permitted unless the materials proposed for substitution are first tested and a laboratory report is submitted for the substituted design as specified above. Substituted materials shall not be used until the mix design for those materials is approved by the county/city representative.

- (5) PROPORTIONING - Asphalt emulsion, water, whole tire rubber, and additives, including set-control agent, if used, shall be proportioned by volume utilizing the mix design approved by the county/city representative.

309.3.00 Construction

309.3.01 Application Rate

The surface seal mixture shall be spread at a rate of between .15 to .30 per sq. yd. The exact rate will be determined by the county/city representative for each street and can vary from one street to another. The quantity of asphalt emulsion to be used in the Rubber Surface seal

mixture will be determined from the design asphalt binder content, as approved by the County/City representative, and the asphalt solids content of the asphalt emulsion furnished.

External gauges allowing constant monitoring of the rate of material application, which are readable by the operator and from the ground, are required. The Contractor, at the preconstruction conference, shall submit a plan to be approved by the County/City representative for the monitoring of all materials. Alternate methods of determining compliance with mix design limits may be used only with written permission of the County/City representative.

309.3.02 Application

Rubber Surface seal shall not be placed before 8:00 AM or after 2:30 p.m. unless authorized by the County/City representative.

Surface seal shall not be placed when the existing pavement temperature is below 60 degrees Fahrenheit or during unsuitable weather.

The street surface shall be fogged with water directly preceding the spreader if the county/city representative deems it necessary.

The surface seal mixture shall be uniformly spread on the existing surfacing within the rate specified without spotting, re-handling or otherwise shifting of the mixture.

Unless permitted otherwise by the County/City representative, longitudinal joints shall correspond with the edges of traffic lanes and all through traffic lanes shall be spread in full-lane width pulls only. Longitudinal joints, common to two-driving lanes, shall be butt joints with overlaps not to exceed 3 inches.

Building paper shall be placed at transverse joints as well as all starting & stopping points over previously placed Rubber Surface seal, or other suitable methods used to avoid double placement/thickness of the surface seal. Hand tools and a clean water supply shall be available to remove splashes & spillage. Ridges or bumps in the finished surface will not be permitted. The mixture shall be uniform and homogeneous after spreading on the street surface.

The rate of curing of the surface seal shall be such that the area may be open to traffic within a maximum of 3 hours after application without tracking or damage to the surface. Newly surfaced sealed areas shall be opened only when approved by the agency representative. The County/City will

not be responsible for any damage to the surface seal prior to specific notice to open the area. Any damage to the newly placed surface shall be repaired to the satisfaction of the County/City representative at no additional cost to the County/City. **Street closures and the maintaining of the street closures are the sole responsibilities of the contractor.**

All utility covers located in the work area shall be covered. These covers shall be cleaned as quickly as possible after the application of the surface seal. This cleaning shall be done prior to final cure of the surface seal. All non-painted traffic control devices, such as buttons, reflectors, and plastic pavement markings, shall be protected by the Contractor from coating of the surface seal.

All incidental work, such as surfacing of driveway & road connections as well as returns and radius's where required, shall be done concurrently with the surfacing of the street proper.

The edges of the limits of the surface seal application on both sides of the street shall be maintained in a neat and uniform line. Surface seal may **NOT** be applied over concrete gutters. The Contractor shall furnish and maintain in good operating condition tools and equipment necessary to do the work with a minimum on inconvenience to the public and shall employ sufficient personnel to operate all equipment efficiently and skillfully. Acceptable crew size shall be deemed appropriate by the county/city representative before each application day begins.

309.3.03 Mixing And Spreading Equipment

All equipment, tools, and machines used in the performance of this work shall be maintained in satisfactory working order at all times. Descriptive information on the surface seal mixing and application equipment to be used shall be submitted for approval by the County/City representative at the preconstruction conference.

The surface seal mixture shall be spread by means of a motorized distributor to insure uniform application on super-elevated sections and low-lying areas of the roadway. Intersection radius' and cul-de-sac bulbs may be shot by hand where motorized distributors can not reach.

Necessary cleanup of the distributor during application of Rubber Surface shall have any clumps or unwanted waste, as determined by the County/City representative, removed prior to finish coat of surface seal. **At no**

time shall the seal placing equipment be cleaned on a public street without a suitable material barrier placed below it. Any excess material that falls off the surface seal equipment during transit on a public street, shall be cleaned up and removed to the agency's representatives satisfaction before contractor is permitted to continue with any scheduled surface seal lay down.

Contractor shall not use diesel fuel or other solvents of any kind for cleaning tools and equipment in such a manner that will result in spillage of diesel fuel or solvent on public or private property (including, but limited to, new or existing pavement, curbs and gutters).

No excessive buildup, nor unsightly appearance shall be permitted on longitudinal of transverse joints or along the street gutter at the curb line where applications overlap each other.

Care shall be exercised so that the handwork shall not be left with any unsightly appearances. Any punch list shall be completed before contractor is considered finished for that day.

309.4.00 Measurement

309.4.01 Rubber Surface Seal

Rubber Surface seal will be measured by the square yard of surface area of pavement on which the Rubber Surface seal is placed.

309.4.02 Surface Preparation

There will be no separate measurement of surface preparation.

309.5.00 Payment

309.5.01 Rubber Surface Seal

The accepted quantities of Rubber Surface seal will be paid for at the contract unit prices per square yard for the item Rubber Surface Seal.

Payment will be for payment in full for the furnishing and placing of the Rubber Surface seal, including all materials, equipment, tools, labor and incidentals necessary to complete the work as specified.

309.5.02 Surface Preparation

No separate payment will be made for surface preparation, including but not limited to, cleaning, sweeping, flushing and vegetation removal; the costs for this work will be included in the payments at the contract unit prices per square yard for the Rubber Surface Seal.