

AN ORDINANCE TO AUTHORIZE THE DIRECTOR OF PUBLIC SERVICE TO ADVERTISE FOR BIDS AND FOR THE MAYOR AND DIRECTOR OF FINANCE TO ENTER INTO AGREEMENTS FOR THE RESURFACING OF 6.61 MILES, MORE OR LESS, OF VILLAGE STREETS; AND DECLARING AN EMERGENCY.

Be It Ordained by the Council of the Village of Richfield, Ohio:

- Section 1: The Director of Public Service is authorized and directed to advertise for bids for the resurfacing of 6.61 miles, more or less, of Village Roadway.
- Section 2: The agreements for (1) asphalt resurfacing of 3.88 miles, and (2) surface heater recycling for 2.73 miles shall be let in two separate agreements as set forth in the specifications.
- Section 3: The plans and specifications for each separate resurfacing project, now on file in the office of the Director of Public Service, are hereby approved.
- Section 4: The Mayor and Director of Finance are authorized and directed to enter into a separate agreement with the lowest and best bidder for each resurfacing project after advertising according to law.
- Section 5: This Ordinance is determined to be an emergency measure necessary for the immediate preservation of the public peace, health or safety for the reason the resurfacing is needed for the proper roadways and, provided this Ordinance receives the affirmative vote of two-thirds of the members elected or appointed, it shall take effect and be in force from and after its approval by the Mayor; otherwise, it shall take effect and be in force from and after the earliest date provided by law.

Passed:

2/17/87

David W. Howard
President of Council

David W. Howard
Mayor - ACTING

Dated: 2-17-87

Attest:

Mary L. Hegley
Clerk of Council

DETAILED SPECIFICATIONS

ASPHALT RESURFACING FOR VARIOUS STREETS

Prior to the start of the project the Village of Richfield shall be given sufficient time to patch all holes and seal the cracks.

ITEM 1.01 TACK COAT:

- (a) The contractor shall clean the existing pavement surface with a power sweeper prior to the application of the tack coat.
- (b) The bituminous tack coat material shall be Item 702, applied at the rate of 0.10 to .020 gallons per square yard.
- (c) The bituminous tack coat material and construction shall conform to the State of Ohio Department of Transportation Construction and Material Specifications, Item 407, except that no cover aggregate would be used.

ITEM 1.02 PAYMENT:

- (a) Payment for this item shall include all material and labor for the actual number of gallons of bituminous material applied.

ITEM 2.01 ASPHALT CONCRETE LEVELING MATERIAL:

- (a) This item shall consist of constructing a new leveling course of 18-foot wide pavement. The quantities of leveling material to be used will approximate the amount of material used in the surface course.
- (b) The material and construction shall conform to the State of Ohio Department of Transportation Construction and Materials Specifications, Item 401 and 403. Aggregate shall be limestone with a dry sodded weight of between 90 and 100# per cubic foot.
- (c) Streets to receive a level course are Creche Drive and Gelding Lane.

ITEM 2.02 PAYMENT:

- (a) Certified weight bills must be presented to and approved by the Engineer of the Village of Richfield, Ohio, at the time of application.
- (b) Payment for this item shall be at the bid price per ton and shall include all labor and material necessary for the leveling course.

DETAILED SPECIFICATIONSItem 3.01 ASPHALT CONCRETE SURFACE MATERIAL:

- (a) This item shall consist of constructing a new three/quarter inch (3/4") thick wearing course for 18-foot wide pavement.
- (b) The material and construction shall conform to the State of Ohio Department of Transportation Construction and Material Specifications, Items 401 and 404. Aggregate shall be limestone of dry sodded weight of between 90 and 100# per cubic foot.
- (c) Streets to receive a wearing course are High Street, Mill Street, Grant Street, Humphrey Road, Amelia Drive, Donna Drive, Monica Drive, Paula Drive, Richlawn Drive, Creche Lane and Gelding Lane.

ITEM 3.02 PAYMENT:

- (a) Certified weight bills must be presented to and be approved by the Engineer of the Village of Richfield, Ohio, at the time of application.
- (b) Payment for this item shall be at the price bid per ton and shall include all labor and material necessary for the surface wearing course.

DETAILED SPECIFICATIONS

ALTERNATE ADDITION - SHOULDER WORK

ITEM 4.01 Description

- (a) This item shall consist of furnishing a road widener machine and operator at an hourly rate to lay berm material supplied and hauled by Village personnel
- (b) Payment for rates quoted shall be from starting time and ending time at the job site within the Village of Richfield.

ITEM 5.01 Description

- (a) This item shall consist of furnishing a minimum tandem size dump truck and driver at an hourly rate to haul berm material supplied by the Village of Richfield.
- (b) Payment for rates quoted shall be from starting time and ending time at the job site within the Village of Richfield.

STANDARD SPECIFICATIONS
FOR
SURFACE HEATER-RECYCLING
OF
ASPHALTIC CONCRETE PAVEMENTS

SURFACE HEATER RECYCLING

SHR-1

SCOPE

This work shall consist of furnishing all labor, equipment, material, etc., necessary to heater recycle and place rejuvenating agent on existing asphaltic concrete pavements which are designated to be recycled, in accordance with the specifications, applicable drawings and subject to the terms and conditions of the contract.

SHR-2

SURFACE PREPARATION

Before commencing with the surface recycling operation, all loose dirt, clay and other objectionable material shall be removed from the pavement surface with a broom, blower or other suitable tools. All pot holes and large depressions in the existing surface shall be filled with approved hot mix asphalt. Said repaired areas, shall be compacted to $\frac{1}{4}$ " above the existing pavement surface. NOTE: Patch and repair work will be done by the Village of Richfield.

SHR-3

HEATER RECYCLING

The existing pavement shall be heated with heating equipment so constructed to produce the required radiant type heat without direct flame coming in contact with the pavement surface. This shall be accomplished through the use of acceptable shielding screens, ceramic material or radiating matrix. The heating unit shall be capable of being cycled on and off, when directed by the Engineer, to allow the heat to penetrate to the required depth without raising the surface to combustion temperature. In no case shall ignition of the pavement surface be allowed. The equipment used shall burn propane or butane for heating fuel to prevent sooting or oil coating of aggregate or asphaltic materials. Federal, State and local air pollution laws shall

be complied with. Following the heating of the pavement to sufficient temperature, the surface shall be recycled to a depth of one inch, as required by the Engineer, through a series of scarifying teeth. The teeth shall be so designed and positioned to thoroughly scarify and tumble the heated pavement to the specified depth in an even uniform pattern and in such a way that no area will be untouched by the scarifying teeth. The recycling machine shall be capable of operating at variable rate of forward speed. Said forward speed shall be accurately controllable so as to be compatible with the heat output of the recycling machine to prevent burning of the pavement surface.

In the event that two separate heating units are used in tandem, the first unit shall only heat the pavement without applying the scarifying rakes so as not to open the pavement, thus subjecting it to in depth damage by the second heater.

The equipment used for the heater recycling shall be in good condition and repair to ensure maximum safety for both workmen and the general public. The heater unit shall be equipped with a clearly marked and easily operated safety shut-off switch for the heat exchanger, which can be controlled both from the ground and from the operator's station. Said safety shut-off switch shall be so designed to instantaneously turn off the heat exchanger and fuel supply.

The recycling machine shall be equipped with a heated screed assembly. Said screed shall have parabolic crown adjustment and height adjustment capabilities. The recycled surface will be checked with straight edges and/or rolling straight edges by the Engineer. The variation of the recycled surface from the testing edge of the 10' straight edge shall not exceed $\frac{1}{4}$ ". The lead edge of the screed shall have an auger or other approved device which will mix the

recycled material and move said material from one side of the screed or from the center to either side as directed by the Engineer. The minimum temperature of recycled material shall be 220° F, as it leaves the screed assembly. All oils used in the various power units and other systems on the heater recycling machine shall be a non-flammable type.

SHR-4

DAMAGE TO EXISTING FACILITIES

The Contractor shall be solely responsible for any damage caused by his equipment, employees, sub-contractors, etc., or any curbs, tree lawns, shrubs, etc., so damage shall be replaced as required at the Contractor's sole expense and prior to final payment. Heat damage to trees abutting and/or overhanging the work limits WILL NOT BE TOLERATED. Any equipment not conforming to this requirement shall be excluded from use under this contract.

SHR-5

COMPACTION OF RECYCLED ASPHALT

Following heater-recycling of the existing pavement the recycled mat shall be compacted with a roller closely behind the recycling machine or screed. Traffic shall not be allowed on the remixed and compacted pavement until it has cooled sufficiently to prevent dislodging of the aggregate as determined by the Engineer.

SHR-6

DEMONSTRATION CLAUSE

In the event that the Engineer is not familiar with the equipment, and/or process, of any bidder, he may require a field demonstration of said equipment prior to any contract award. Said demonstration shall be at the sole cost of the bidder.

SHR-7

ASPHALT REJUVENATING AGENT

The asphalt rejuvenating agent shall be composed of a petroleum resin oil base uniformly emulsified with water. The material shall have a record of satisfactory service as an asphalt rejuvenating agent. Said satisfactory service being based on the capability of the material to increase the

ductility, penetration value and durability of the asphalt binder in the recycled asphalt. The rate of application of asphalt rejuvenating agent shall be 0.10 gallon per square yard minimum, or as required by the Engineer. The rejuvenating agent shall be applied at the required rate by an asphalt distributor to the recycled surface following compaction. In no case shall the rejuvenating agent be added prior to compaction. A check of distributor rate and uniformity of distribution shall be made by the Engineer.

SHR-7A

Designated streets are to receive a second application of rejuvenating agent meeting specifications of SHR-7, except sand shall be applied at the rate of 3 lb. per square yard. Sand shall be furnished by the Village of Richfield. Labor and equipment to apply sand shall be furnished by the Contractor.

SHR-8 BASIS OF PAYMENT

The quantities under this contract shall be measured by the Engineer and shall be paid under the unit price bid for the item. Heater-recycling shall be paid for at the unit price per square of yard of asphalt surface recycled. Asphalt rejuvenating agent shall be paid for by the unit price of gallon applied. The unit price for all contract items shall include all labor, materials and equipment, etc., necessary to complete the items as specified and required and shall be full compensation for work as so performed.