



City of Quincy, Massachusetts
Purchasing Department
1305 Hancock Street
Quincy, MA 02169

Phone: 376-1060
Fax: 376-1074

ADDENDUM NUMBER 2

RE: **BID DUE : February 7, 2013 11:00 a.m.**

BID/RFP TITLE: Trench Repairs - 2013

PLEASE NOTE :

Addendum #2

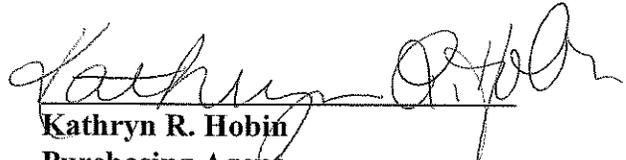
A question has been asked by a potential bidder for clarification:

Q. In the Details of Pavement Repair" under Detail 1 notes #4 and Detail 2 notes #3 reference is made to the new patch is to be infra-red. Although there is no item for Infra-Red in the bid quantities is this work to be performed as incidental to the repair work or performed under separate contract?

A. A correction has been made to the "Trench Repairs-2013" Bid. Please replace the four attached pages with the pages that make reference to "Infra-Red Finishes of Patches"

Thank you.

PLEASE SIGN THIS SHEET AND ATTACH IT TO YOUR BID, AS IT IS NOW A PART OF THE BID.


Kathryn R. Hobin
Purchasing Agent

Date: _____

Bidder's Signature: _____

PERMANENT REPAIRS - PATCHING

The work covered by this section of the specification consists of furnishing all plant, labor, equipment, and materials necessary to perform all operations in connection with the cleaning and patching of bituminous concrete pavements, and vegetation removal where necessary.

The permanent patching on any defective utility trenches, potholes, and/or depressions of bituminous concrete pavements shall be performed in a workmanlike manner substantially to the original condition of the pavement.

Permanent repairs will be performed before infrared finishing. Permanent repairs will consist of pavement cutting, excavation, removal and disposal of debris and replacement of the bituminous concrete in the excavated areas of pavement.

This restoration procedure shall be performed in the following general manner:

1. Area to be repaired shall be precut, in neat, straight lines with a pavement breaker or saw.
2. The area to be excavated will include a cutback of approximately one (1') foot on all sides of the area to be repaired or whatever extended area that may be required to restore the pavement to original condition.
3. The permanent repair will consist of re-excavation to the depth of the sound base.
4. Excavated area shall be adequately protected by barricades, to insure the safety of the traveling public, prior to pavement installation.
5. The contractor shall keep all job sites as clean and neat as possible. All residue resulting from excavation work shall be removed, disposed of in a proper manner, and the area left in an orderly fashion ready to receive paving materials. No additional payment will be made for the disposal of the excavated material.
6. Replacement bituminous concrete will be installed within 24 hours of excavation to the depth, strength, contour, and finish of the original pavement structure unless otherwise directed by an authorized representative, in accordance with Detail 1.
7. The newly cutback vertical face of the pavement opening is to be heavily tack coated with penetrating asphalt emulsion, as per materials Detail 1, before installation of any paving material.
8. Approved base and top gradations of bituminous concrete(s) and/or patching materials(s) strictly conforming to material specified in Detail 1, shall be obtained from separate, thermostatically controlled solid metallic, infrared heated storage units. These individual containers must be capable of maintaining the paving materials at constant temperature throughout the working day by means of an air circulation system as outlined.
9. Each course of paving material is to be placed at a temperature of not less than 200° F, in compacted layers not to exceed two (2") inches, in kind with the existing pavement.

10. Compaction will be achieved by sufficient means to attain a density equal to that of surrounding or adjacent pavement.
11. Resealing with the penetrating emulsion must be performed between each layer if the emulsion breaks prematurely. In any event, the surface of the butted joint must also be sealed.
12. Approved mineral filler(s) shall be broadcast over the completed repair to blot out the emulsion and prevent tracking.
13. The completed permanent patch is to be immediately level with the adjacent surface and opened to traffic.

The completed permanent repair of pavements shall result in a condition substantially equal to the original condition of the pavement.

~~Measurement and Payment:~~

~~Measurement shall be lump sum and per street. Payment shall be at the unit price bid in the proposal and shall be complete payment for the work item including furnishing, preparation and placing of materials, labor and equipment to be used on this project. All work shall be completed to the satisfaction of the Engineer.~~

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INFRA-RED FINISHES OF PATCHES

The work covered by this section of the specification consists of furnishing all plant, labor, equipment, and materials necessary to perform all operations in connection with the process.

The infrared finish of permanent patches in bituminous concrete pavements shall be performed in a workmanlike manner substantially to the original condition of the undisturbed pavement. Infrared finish shall be applied to the existing sound patches or patches after the permanent repairs as specified on specification.

This restoration procedure shall be performed in the following general manner.

1. Area to be repaired shall be thoroughly cleaned to eliminate all potential contaminants.
2. The appropriate approved infrared heater as per Specification (B) shall be positioned over the area to be repaired for a period of time required to plasticize the existing pavement to a depth of one and one-half (1-1/2") inches. Oxidation of the pavement caused by improper heating techniques must be avoided. If this condition occurs, all unsuitable material must be reconstituted or discarded, as directed.
3. The softened area shall be inwardly reworked from approximately one foot beyond all sides of the semi-permanent patch or whatever extended area that may be required to restore the pavement to original grade. This designated area shall be treated with a penetrative asphalt emulsion as per Detail 2, uniformly scarified and trenches with jog(s), the reworked area will be extended beyond the outermost jog in a straight line parallel with the opposite outermost jog.
4. Any necessary additional specified mix must be obtained from an appropriate pre-approved solid metallic heated asphalt storage unit required to keep such mix at a near constant temperature throughout the working day. Under no circumstances in any mix to be used that registers a temperature under 200° F.
5. After the paving mixture has been properly admixed and raked to grade, compaction shall be obtained by use of a steel wheeled roller of sufficient weight to establish a uniform density comparable to that of the surrounding pavement surface within the work area. The finished infrared patch shall be level having no depressions retaining water on any of the surface.
6. All seams of the finished perimeter shall be sealed with asphalt emulsion (CRS-2) or approved substitute.
7. A petroleum resin sealant shall be applied consistently to the entire heated area(s), allowing for sufficient absorption. Mineral filler will then be spread over the entire newly patched area and immediately opened to traffic.

Measurement and Payment:

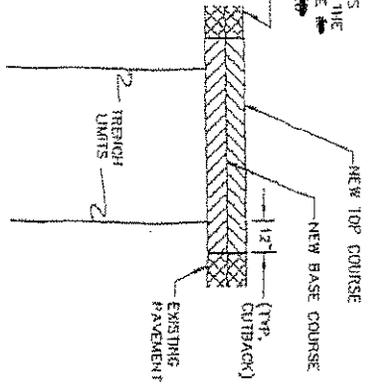
Measurement shall be lump sum and per street. Payment shall be at the unit price bid in the proposal and shall be complete payment for the entire item including furnishing, preparation and placing of materials, labor and equipment to be used on this project. All work shall be completed to the satisfaction of the Engineer.

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DETAILS OF PAVEMENT REPAIR

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THE DEFECTIVE AREAS TO BE EXCAVATED TO THE DEPTH OF SOUND BASE ARE TO BE REPAIRED AS SHOWN.



DETAIL 1

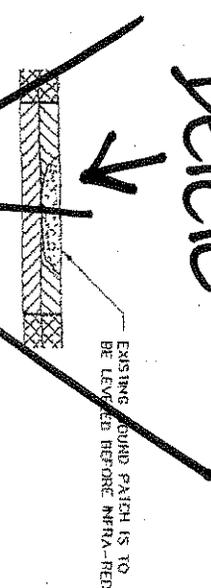
FOR ANY DEFECTIVE AREAS ON PAVEMENT (POT HOLES, DEPRESSIONS, UTILITY TRENCHES ETC.)

- NOTES:
1. MINIMUM 12 INCH CUTBACK ON ALL SIDES.
 2. REMOVE LOOSE MATERIAL BEFORE THE PERMANENT REPAIR.
 3. ALL EXPOSED BRUMMINGS CONCRETE EDGES AND SURFACES IN THE REPAIR AREA TO BE TACK AND/OR PRIME COATED AS SPECIFIED BEFORE PLACEMENT OF NEW BRUMMING CONCRETE MIXES.

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~~DETAIL 2~~

~~FOR ANY EXISTING SOUND PATCHES ON PAVEMENT~~

- ~~NOTES:~~
- ~~1. REMOVE LOOSE MATERIAL AND CLEAN EXISTING PATCH~~
 - ~~2. LEVEL TO THE EXISTING PAVEMENT SURFACE~~
 - ~~3. THE NEW PATCH IS TO BE INFRA-RED.~~

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