

FHWA REG. NO.	STATE	PROJECT NO.	YEAR	SHEET NUMBER	TOTAL SHEETS
7	KANSAS	15-87 U-2192-01	2010	4	16

**BID PROPOSAL:**

*Work on Project:* Asphalt mill and overlay, concrete base repair, pavement markings and shoulder repair.

**Temperature Restrictions:** Work on this project shall not begin until the air temperature as measured in the shade reaches a minimum of 50°F for a minimum of three (3) consecutive days or the Engineer has given prior permission to begin work. Working days will not be charged until the outside air temperature allows work on the project by meeting the 50°F temperature requirements as stated previously.

**The Mill and Overlay** work on this project consists of cold milling a nominal 2 inches (unless otherwise noted) of asphalt street surface and 2 feet of both adjacent asphalt shoulders. All milled surfaces will have 2 inches of BMI-B (PG70-28) asphalt overlaid on the locations shown in the table "Locations and Scope of Work" found on this page. All asphalt millings shall be salvaged to the West or North City Sub-station. Details will be discussed at the Pre-bid Meeting. Any milling on the turn lanes shall be considered as part of the regular mill and overlay work.

**Concrete Base Repairs** includes the removal and replacement of base pavement, as directed by the Engineer. It will consist of complete removal and replacement of the concrete base to a level of below the asphalt surface or flush with any milled surface. Concrete base shall be tied in all sides to existing base using No. 4 bars 2'-0" in length, spaced 2' on centers. **Dowels must be set with epoxy and shall not be hammered into a smaller diameter hole.** Joint spacing shall be no greater than 12 feet, nor less than 6 feet. Base repair shall conform to section 500 of the City's standard specifications. All base repairs, regardless of location, require full-depth saw cuts. All saw cutting will be considered subsidiary to the other bid items. **The cost of cuts and fill up to 2" and flag person for working near rail road crossing shall be incidental to other bid items.**

**Asphalt Shoulder or Base Repairs.** The Contractor shall perform full-depth asphalt shoulder or base repairs as directed by the Engineer. Work consists of sawing and removing the full asphalt pavement thickness, removal of 4" of sub-grade, replacing sub-grade with crushed concrete, and replacing asphalt with city BM-2 (PG 64-22 max 35% RAP) base hot mix. Asphalt repairs shall be compacted in a minimum of two lifts where the maximum lift thickness is 3" to 95% density. The full-depth asphalt repair shall be a minimum of three-feet (3') in width and paid by ton of asphalt. Any asphalt shoulder repair will be marked by the Engineer prior to the repair.

**Thermo-Plastic pavement markings** are to be placed as part of this project. All thermo-plastic pavement markings shall be placed within 5 working days of placement of asphalt surface course. The Contractor shall be liable to the City of Wichita liquidated damages of \$200 per day for each working day pavement markings remain incomplete.


**To prevent delays in construction** and more quickly resolve traffic issues, work shall commence within two (2) working days of traffic control being set up, unless operations are delayed due to weather or any other unforeseen circumstances and must be approved by the Engineer. Mill and overlay operations are to commence the day after the base repair concrete cures, unless operations are delayed due to weather or any other unforeseen circumstances and must be approved by the Engineer. The Contractor will reimburse to the City liquidated damages of \$200 per day for each calendar day that work has not started beyond the 2 working day grace period.

**To protect underlying pavement** layers and limit disruption of traffic, it is imperative that all milled asphalt surfaces be overlaid with asphalt as soon as possible. Therefore, unless the overlaying operations are delayed due to cure time of concrete base patches, or otherwise approved by the Engineer, all milled surfaces shall be covered with new asphalt within **three (3)** working days of the initiation of milling operations on a particular location. The Contractor will reimburse to the City liquidated damages of \$200 per day for each calendar day that milled surfaces remain unfinished beyond the three (3) working day grace period.

**All attempts shall be made to keep traffic off of milled surfaces** prior to being overlaid with new asphalt. Transition tapers will be provided at the start and finish of each milled area if traffic is allowed on the milled surface. All manholes, water valves, gas valves, and any other utility manholes or ducts shall also have tapers provided. Tapers shall be maintained while traffic is allowed on any milled surface and shall be cleaned up prior to being overlaid. All tapers shall be incidental to the various bid items of work.

**Traffic Control** shall be set up and maintained according to latest MUTCD standards and all traffic control devices shall have enough reflectivity to be seen in the dark by motorists with their high beams at night a minimum distance of 300 feet. All traffic devices not adhering to this shall be removed and replaced within 4 hours of notification. The Contractor will reimburse to the City liquidated damages of \$200 per day for each calendar day that traffic devices are not replaced within 4 hours of notification. A traffic control contact person must be available on a 24-hour a day basis. On residential streets each home in the neighborhood needs to be notified of the approximate dates of construction and scope of the project and there should be traffic signs warning drivers of construction and slow down signs while construction takes place. Traffic control and notices shall be incidental to all other bid items.

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 <p>CITY OF <b>WICHITA</b> PUBLIC WORKS &amp; UTILITIES ENGINEERING DIVISION</p>	2010 KLINK SB K-15, I-135 TO KTA		
	CITY ENGINEER JAMES L. ARMOUR, P.E., L.S.		
	PROJECT NUMBER 472-84897	OCA NUMBER 707016	DATE 12/2010
	CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		DESIGN DRAWN A.P.ROSAS SHEET 4 of 16