

## **RESOLUTION NO. 12-410**

**BE IT RESOLVED** by the City Council of the City of Decatur, in the State of Alabama, that the bid of Smith Service Corporation, having been the lowest responsible and responsive bidder submitting a bid in compliance with the specifications for Bid No. 13-003 for HVAC Removal and Replacement at the Decatur Public Library, be accepted in the amount of \$348,800.00.

The Purchasing Agent is hereby authorized to issue the appropriate purchase order with the understanding that the budget is so amended.

Adopted this 19th day of November, 2012



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**Bid Tabulation for Decatur Public Library**

**Ceiling Tile Replacement**

<i>Company</i>	<i>Base Bid</i>	<i>Notes</i>	<i>Description</i>	<i>Add. Alt.</i>	<i>Deduct Alt.</i>	<i>YES</i>	<i>NO</i>
<b>Jennings Interior</b>	\$51,246.00	Grid \$1.75 Tile \$2.30/sqft	Replace tile				
	\$5595.00	Demolition	Remove tile				
			Remove Lights, camera etc, where 12"x 12" ceiling is removed and reinstall in new ceiling	+2,400.00			
			Support 80 devices at \$30/ea.	+2,400.00			
			Dune #1774 tile		-\$2,280.00		
			Square edge tile		-\$7,600.00		
			Fine Fissured #1732 tile		-\$4,180.00		
<b>F.L. Crane</b>	\$106,000		Replace tile				
			Flat tile		-\$2900.00		

<b>McDonald Richard Company, Inc.</b>	<b>Backed out of bidding; no reason given</b>
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**HVAC Replacement**

<b>Company</b>	<b>Base Bid</b>	<b>Notes</b>	<b>Description</b>	<b>Add. Alt.</b>	<b>Deduct Alt.</b>	<b>YES</b>	<b>NO</b>
<b>Smith Service Corp.</b>	348,800.00	10 weeks after order	HVAC replacement				
			Demolition of the air handling unit		-\$1,650.00		
			Demolition of the coils and dampers of the existing VAV boxes		-\$ 800.00		
			Removing chiller to location within 10 miles		-\$ 396.00		
			Removing chiller piping		-\$ 396.00		
			Rooftop HVAC Equipment Replacement (*See Notes)	+11,672.00			
<b>Pettus Mechanical</b>	\$361,800.00	4-6 weeks after order					
<b>Early Svcs.</b>	\$404,000.00	60 days					

**Window Tint**

<i>Company</i>	<i>Base Bid</i>	<i>Comments</i>	<i>Description</i>	<i>Add. Alt.</i>	<i>Deduct Alt.</i>	<i>YES</i>	<i>NO</i>
<b>The Window Tinting Co.</b>	\$14,705.00	5-year film INVALID BID	Installation of 3M LE35AMARL Low-E solar control window film to designated windows.				
<b>North Alabama Glass</b>	\$31,461.00	-New bid was offered after original submittal of \$37,400.00 -Bidder can supply the other films with shorter warranties at a significantly reduced price. That new price would be slightly higher because of insurance, bid bond, licenses, etc.					
<b>Solar Shield</b>	\$14,210.00	10-year film INVALID BID					

**Asbestos Removal**

<i>Company</i>	<i>Base Bid</i>	<i>Comments</i>	<i>Description</i>	<i>Add. Alt.</i>	<i>Deduct Alt.</i>	<i>YES</i>	<i>NO</i>
<b>Hardiman Remediation Services</b>	14,600.00		Asbestos Removal	n/a	n/a		

**Fire Alarm Upgrade**

<i>Company</i>	<i>Base Bid</i>	<i>Description</i>	<i>Add. Alt.</i>	<i>Deduct Alt.</i>	
<b>BBC</b>	3,043.00	Fire Alarm System			

The following was outside the base scope of work.

**Rooftop HVAC Equipment Replacement**

<i>Company</i>	<i>Base Bid</i>	<i>Description</i>	<i>Add. Alt.</i>	<i>Deduct Alt.</i>	
<b>Stephen Ward Associates, Inc.</b>	1,500.00	Forensic inspection and assessment of roof			
				<b>TOTAL</b>	<b>1,500.00</b>

**Notes:**

1. Window Tint rebate has a minimum of \$6,000.00; energy savings projected to be \$6,000.00. Saved approximately four (4) tons in cooling equipment. 3.74 tons cooling equipment x \$3500/ton = \$13,090.00. In addition, 26.7 kw of heating capacity was deleted due to film. \$2,000-3,000 equipment cost, savings)
2. HVAC equipment has changed somewhat, but anticipated savings in the \$20,000-30,000 range, based on 10¢/kwh rebate

### HVAC SAVINGS CALCULATIONS

3. We do not know how much of current kilowatt usage is HVAC.
  - a. CASE 1: If we guess that it is 70% of 776, 640 kwh, or 543,648 kwh/yr. We are projecting new HVAC equipment uses 192,333 kwh/yr. Then we should see a savings of 351,315 kwh. Per your utility bill, the cost per kwh is .086, then:
    - i.  $.086 \times 351,315\text{kwh} = \$30,213.09$  (Savings per year)
  - b. CASE 2: If we guess that it is 50% of 776,640 kwh, or 388,320 kwh/yr, then  $388,320 - 192,333 = 195,987$  kwh/yr.
    - i.  $.086 \times 195,987 = \$16,854.88$  (savings per year)
4. HVAC energy rebate is based on 10¢/kwh saved. However, TVA does not allow you to use equipment as old as the library has as the base case. They use a reference of the 2007 ASHRAE energy code standard. 1972 Standard was a 7.0 minimum “EER”, in 2007, 9.2 EER minimum. Basically, buildings constructed in 2007, had to have a minimum efficiency better than buildings constructed in 1972. Savings will be based on the 2007 requirements for building energy usage.
5. All energy rebates have to be submitted to TVA before construction begins.