

CONSTRUCTION VALUE ENGINEERING CHANGE PROPOSAL  
MISSOURI DEPARTMENT OF TRANSPORTATION

Date 10/22/08

Contract ID 071221-701

Job No. J7P0769 & J7O2146

County Barry

Route 60

Original Bid Cost \$7,236,141.72

Contractor APAC-Missouri, Inc.

By David Wilkins

Designed By APAC-Missouri, Inc.

Phone 417-868-6700

**VECP 08-95**

1. Description of existing requirements and proposed change(s). Advantages/Disadvantages

The original design on the above referenced project calls for a concrete wearing surface to be placed on the existing bridge deck after it is rehabbed. We are proposing to chip/seal and place 1.75" SP (25C 70-22 over the rehabbed bridge deck in lieu of the concrete wearing surface. This was proposed in an email to MoDOT dated August 8, 2008. The proposal seems more relevant now than ever to eliminate the concrete wearing surface since there have been several references by MoDOT that the substructure of the bridge is in need of major repair and the bridge deck rehab is a band aid. This is a perfect example of where a Cadillac was specified, but a Chevrolet will work. Furthermore, it is a common practice for MoDOT to chip-seal and overlay bridge decks with asphalt.

Note: No engineering fees were included in the above proposal. We are requesting that if any engineering is required, MoDOT perform the engineering at no cost to APAC-Missouri, Inc or this proposal. Superpave bonuses/deducts are not part of the cost savings and will be solely retained by APAC-Missouri, Inc.

The primary advantage is overlaying the existing concrete will serve the same propose as the original design at a lower cost to the taxpayers.

APAC-Missouri, Inc. does not foresee any disadvantages to the above proposal.

The net savings is \$54,271.42. The attached sheet shows the items to be under-run and dollars saved. A new seal course item will have to be created at the unit price shown on the attached sheet.

2. Estimate of reduction in construction costs.

3. Prediction of any effects the proposed change(s) will have on other department costs, such as maintenance and operations.

APAC-Missouri, Inc. foresees no additional costs for MODOT.

4. Anticipated date for submittal of detailed change(s) of items required by Section 104.6 of the Specifications.

Attached  
.....  
(date)

5. Deadline for issuing a change order to obtain maximum cost reduction, noting the effect of contract completion time or delivery schedule.

October 27, 2008  
.....  
(date)

No change to completion date or schedule.  
.....  
(effect)

6. Dates of any previous or concurrent submission of the same proposal.

NA  
.....  
(date and/or dates)

Additional Comments:

**\*\* Portion Below This Line To Be Filled Out by MoDOT \*\***

**Comments:** I do not feel this proposal qualifies as a VE. We are doing this to save money and allow the project to be completed under the budget. In doing this, we realize that our maintenance costs will increase, and are currently working to reprogram a better solution for this bridge. See EPG...104.13, "Ideas that merely cost less initially. ....are usually unacceptable." I do not support this Value Engineering Proposal.

Steven V. Campbell

10-22-08

Submitted By Resident Engineer

Date

**Comments:**

I concur.

- Approval Recommended
- Rejection Recommended

Becky Baritz  
District Engineer

10-23-08  
Date

Comments:

APPROVED AS 75/25. BRIDGE WILL BE RE-PROGRAMMED FOR PERMANENT.

- Approval
- Rejection

David D. Coates

State Construction and Materials Engineer

by [Signature] 11-7-08  
Date

Distribution: Resident Engineer, Project Manager, District Operations Engineer, State Construction and Materials Engineer  
\*Value Engineering Administrator - \*MoDOT, P.O. Box 270, Jefferson City, MO 65102

# RT. 60 BARRY VE SUMMARY SHEET

## Original Contract

Item Number	Item Description	Bid Quantity	Units	Unit Price	Total
1880	ALTERNATE CONCRETE WEARING SURFACE	1492	SSQYD	\$52.00	\$72,904.00
Total					\$72,904.00

## VE Proposal

Item Number	Item Description	Bid Quantity	Units	Unit Price	Total
120	SP15C 70-22	1402	SSQYD	\$6.20	\$8,692.40
201	SEAL COURSE, SINGLE COAT	1402	SSQYD	\$7.08	\$9,940.16
Total					\$18,632.56

Total Savings

554,271.42

\*Wearing limitations of 60 degrees will be waived due to time of year it will be placed. Limestone chips 3/4" only in above price



# Hutchens Construction



Date: 10/21/08  
Bid Date: REVISED

Asphalt Paving - Crushed Limestone  
Arkansas Contractors License #0004640408  
http://www.hutchensconstruction.com

**MAIN OFFICE**  
1007 Main Street  
Cassville, MO 65625  
Phone: (417)847-2489; (888)728-3482  
Fax: (417)847-5561

Since 1961

**SPRINGDALE OFFICE**  
515 Sanders  
Springdale, AR 72764  
Phone: (479)927-0000  
Fax: (479)927-0096

**Proposal Submitted to:**

Name: **APAC**  
Address: 4580 W. CALHOUN P.O. BOX 1187

Job Name:  
Location/Town:

**Job Name \ Description:**  
**BRIDGE HWY 60**  
MONETT MO.

City/State/Zip: SPRINGFIELD MO. 65801  
Attn: DAVID WILKINS  
Phone:  
EMAIL: james.wilkins@apac.com

This quote is based on the plans of:  
MEASUREMENTS BY DAVID WILKINS

Dated:  
ADDENDUMS RFC: NONE

We propose to furnish the described labor, materials & equipment for the performance of the following work in connection with improvements to the following property

**BRIDGE HWY 60**

This property is owned by: **MODOT**

DESCRIPTION	MOBS INCL	QUANTITY	UNIT	PRICE	EXTENSION
Single Chip Seal, Modot Spec. Bridge Deck.		1,402,000	SY	\$6.75	\$9,463.50
<b>Bid Total:</b>					<b>\$9,463.50</b>

3/8" GRADE -C Limestone Chips / CRS2P Oil  
At .35 Rate

PER. STEVE CAMPBELL . BRIDGE CLOSED ,  
KNOW FLAGGERS REQUIRED.

*Bond Included* **10/22**  
**1:30 p.m.**

Final payment to be based on actual quantities or field measurement.

Above prices do not include construction control, saw cutting or removal, testing, ~~grading~~ or construction signs, except for those required in our flagging operations.

The unit prices quoted above are valid for . . . (len if none stated) calendar days from proposal date. Pricing is based upon work being performed before . . . (after 90 calendar days if no date specified. Work performed after this date is subject to renegotiation.

All work is based on one mobilization . . . Additional mobilizations to be charged at \$800 each.

We will accept the paving without the aggregate base, but not the base without the paving.

If the above meets with your acceptance, please sign and return this proposal. Upon receipt of this signed proposal, it is understood this proposal including the conditions and terms set forth on the attached sheet will constitute an agreement between us.

**See the attached Terms & Conditions for additional conditions and signature block.**

Owner/Contractor

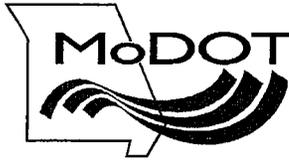
Hutchens Construction Company

Initials: \_\_\_\_\_

Initials: \_\_\_\_\_

Date: \_\_\_\_\_

If signed by anyone other than the owner you must sign as "Agent for the Owner/Contractor"



# MEMORANDUM

Missouri Department of Transportation  
Construction & Materials  
District 7

*Dennis  
Byrant*

**TO:** Dave Ahlvers  
State Construction & Materials Engineer

**FROM:** Michael C. Middleton *M.C.M.*  
District Construction & Materials Engineer

**DATE:** October 24, 2008

**SUBJECT:** Contract 071221-701  
Job No. J7P0769 & J7O2146  
Route 60, Barry County  
Value Engineering Proposal

RECEIVED  
OCT 27 2008  
Construction & Materials - ECR

Attached you will find three copies of a Value Engineering Proposal from APAC-Missouri, Inc. on the above referenced project for your review and signature. I recommend approval of this Value Engineering Proposal.

Please return two copies to my attention, retaining the third copy for your records.

Thank you.



**Springfield Branch Office**

P.O. Box 1187

Springfield, Missouri 65801

(417) 868-6700 • Fax (417) 868-6785

**APAC - Missouri, Inc. • Missouri Division • P.O. Box 1117 • Columbia, Missouri 65205 • (573) 449-0888 • Fax (573) 449-7966**

October 22, 2008

MoDOT Dist. #7  
Attn: Steve Campbell, RE  
1501 Malcolm Mosby Dr.  
Neosho, MO 64580

Re: JOB NO: J7P0789/J7O2146  
Rt. 60, Barry County

Dear Steve,

Attached are four copies of our **REVISED** proposal for changing the concrete wearing surface on the existing bridge deck to a seal course with 1.75" SP125C 70-22 over the top of it. We are submitting this proposal under section 104.6 of the Missouri Standard Specifications for Highway Construction. We feel that the proposal meets the Value Engineering requirements because it reduces the overall cost of the project for the taxpayers. As noted in our proposal, no engineering costs have been added to our proposal. At present, we are scheduled to place the 1.75" SP125C 70-22 on the above project the week of November 3<sup>rd</sup>. The seal course price in the attached proposal is from Hutchens construction and therefore I will have to submit them as a subcontractor on this project. I am requesting a response from MoDOT, in writing, by no later than October 27, 2008.

If you have any questions, feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read 'David Wilkins', is written over the word 'Sincerely,'.

David Wilkins  
Project Engineer

# VALUE ENGINEERING CHECK SHEET

## TYPE OF WORK

(Check one that applies)

- Bridge/Structure/Footings
- Drainage Structures (RCP, RCB, CMP's, ect.)
- TCP/MOT
- Paving (PCCP, ect.)
- Grading/MSE Walls
- Signal/Lighting/ITS
- Misc. \_\_\_\_\_

## SUMMARY OF PROPOSAL

(If needed, condense summary to a couple of lines)

\_\_\_\_\_ Underrun low-slump overlay on bridge rehab and install seal coat and asphalt overlay. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## SCANNING OF DOCUMENT

If the proposal is large, please mark or make note, which pages need to be scanned into the database. If there are special instructions, make note of them here.

\_\_\_\_\_ Scan entire document \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_