

VALUE ENGINEERING CHANGE PROPOSAL  
MISSOURI DEPARTMENT OF TRANSPORTATION

Date 03/26/10

Contract ID 100122-508  
County Boone Route WW  
Contractor APAC-Missouri, Inc.  
Designed By MoDOT  
VECP # 10-33

Job No. J5S0010E  
Original Bid Cost 1,132,026.64  
By Casey Castrop  
Phone 573-449-0886  
VECP  or VECPP/PDU

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

Plans call for 1.5" of surface leveling asphalt at concrete widening locations at LM 2.35 to LM 2.758 and at LM 3.67 to LM 4.378. This plan as proposed would overlay structurally sound concrete widening @ both locations. From our past experiences this process of a single lift overlay of concrete could lead to probable "joint bumps". APAC proposes to mill/fill these areas with 1.5" of surface leveling, thus not surfacing the concrete and eliminating any reflective bumps on the concrete. "

This Value Engineering Proposal will eliminate the need for a third pass at these locations, thus speeding up the construction operation. This will also eliminate the need for wedging the driveways along the concrete providing a smoother transition for traffic entering the roadway. As mentioned this proposal will have less impact to the traveling public by expediting the construction process, along with a shared job savings of ~~\$27,920.87~~ \$50,118.34

Please see the attached cost factor sheet.

2. Estimate of reduction in construction costs. ~~-\$27,920.87~~ \$50,118.34

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

None anticipated

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

\_\_\_\_\_  
(date)

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

April 2, 2010

(date)

(effect)

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

(date and/or dates)

Additional Comments:

Original proposed on 3/26/10. Counter proposed on April 1, 2010. Contractor agreed to counter proposal and submitted new cost savings data.

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

Comments: Counter proposed a 1" mill and fill in these areas listed. APAC Agreed. I have changed the new proposed savings on the first sheet of proposal. I have attached the new savings breakdown sheet to the original proposal. I believe we should move forward with proposed VE.

*[Signature]*

4/1/10

Submitted By Resident Engineer

Date

Comments:

Agree with comments above.

- Approval Recommended
- Rejection Recommended

*Roger Schwartz*

District Engineer

4/1/10

Date

Comments:

Agree w/ RE and District.

Approval

Rejection

David D. Coates

State Construction and Materials Engineer

4-1-10

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. WW Boone  
J5S0010E  
ID# 100122-508

VE #1 - Substitute 1.5" Overlay With Surface Leveling for a 1" Mill/Fill With Surface Leveling Adjacent To The Concrete @ LM 2.35 to LM 2.758 and LM 3.67 to LM 4.378

**Original**  
1.5" Surface Leveling  
Tack Coat

2,436.61 Tons @ \$47.93/ton  
1,475.62 Gallons @ \$0.10/gal

**Total**

\$116,786.72  
\$147.56  
\$116,934.28

**Additional**  
1.0" Surface Leveling  
Tack Coat  
Coldmilling

886 Tons @ \$47.93/ton  
828.62 Gallons @ \$0.10/gal  
16,970 SY @ \$1.43/SY

**Total**

\$42,465.98  
\$82.86  
\$24,267.10  
\$66,815.94

**Total Savings**

\$50,118.34

**Total Savings MODOT**

\$25,059.17

**Total Savings APAC**

\$25,059.17

# 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)

Contractor proposal is to not overlay existing concrete pavement that is in good condition and instead mill and fill the asphalt surface abutting the concrete pavement with 1" surface leveling. This is a VECP and a 50/50 split.

## **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.

---

---

---