

**VALUE ENGINEERING CHANGE PROPOSAL  
MISSOURI DEPARTMENT OF TRANSPORTATION**

Conceptual Proposal       Final Proposal      Rte. 740      Date 10/9/2013  
Contract ID 130125-D01      Job No. J5S0842B  
County Boone      Original Bid Cost \$12,753,322.53  
Contractor Emery Sapp & Sons, Inc.      By Matthew Oesch  
Designed By Matthew Oesch      Phone 573-489-9216  
VECP# 13-55 (to be completed by C.O.)      VECP  or PDVECP

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

ESS proposes to leave the existing concrete full depth shoulder in place from roughly 26+47 RT to 27+22 RT and 31+17 RT to 36+00 RT, and 28+76 LT to 30+00 LT. At all location the existing pavement is in good condition and is thicker than the 8.5" PCCP that is to replace it. On the RT side a roughly one foot sliver of 7" PCCP will be poured monolithic with the curb & gutter to provide enough room for the storm installation against ext EOP. There is ample right of way to leave the existing pavement in place and still install the curb & gutter and 6 ft sidewalk. Final product will provide more shoulder room and reduced cost with superior final product.

**2. Estimate of reduction in construction costs.**      \$21,131.25

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

NONE; will provide extra shoulder room for bicyclist and storage, will leave in place a thicker base pvmt than what is designed for its replacment; furthmore all joint lines will be covered with UBAWS at end of project eliminating any possilble lane marking confusion from existing pvmt.

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

October 9, 2013  
(date)

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

10/16/13      Scheduling for removals to prevent delaying pipe crew.  
(date)      (effect)

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

N/A  
(date and/or dates)

Additional Comments:

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

Comments: *This proposal is an excellent idea. Not only will it save us both money but will also save construction time. I would approve this V E CP*

*Charles Sullivan* \_\_\_\_\_ *10-11-13*  
Submitted By Resident Engineer Date

Comments: Agree that proposal is a good ideal. Designer has no problems with proposal and drainage is not negatively impacted. Savings will be 50/50 due to this being an equal/better product.

Approval Recommended \_\_\_\_\_ 10/24/13  
 Rejection Recommended \_\_\_\_\_ Date  
District Engineer

Comments: N/A

Approval Recommended \_\_\_\_\_  
 Rejection Recommended \_\_\_\_\_ Date  
Federal Highway Administration  
Required for FHWA Full Oversight Projects

Comments: Approved as a 50/50 VECP.

Approval \_\_\_\_\_  
 Rejection \_\_\_\_\_ Date  
State Construction and Materials Engineer

**Original Contract Items Cost**

Line #	Description	Quantity	Unit	Unit Price	Total Cost
0100	Type 5 Base	488 SY		\$ 7.00	\$ 3,416.00
1100	8 1/2" PCCP	488 SY		\$ 44.50	\$ 21,716.00
Total				\$	\$ 25,132.00

Eliminate 387 SY on west side by UIP existing pvmt, 101 SY on east turn lane taper at Worley  
 Eliminate 387 SY on west side by UIP existing pvmt, 101 SY on east turn lane taper

**VE Proposal Items Cost**

Line #	Description	Quantity	Unit	Unit Price	Total Cost
0030	Removal of Imprv CREDIT	1.00	LS	\$ (3,600.00)	\$ (3,600.00)
0100	Type 5 Base	88.2	SY	\$ 7.00	\$ 617.40
0050	Embankment in Place	370.0	CY	\$ 4.50	\$ 1,665.00
0150	7" PCCP	68.7	SY	\$ 44.00	\$ 3,022.80
0140	UBAWS	295.0	SY	\$ 4.84	\$ 1,427.80
1100	8 1/2" PCCP	19.5	SY	\$ 44.50	\$ 867.75
Total				\$	\$ 4,000.75

Extra 19.5 SY widening at Worley, plus 1' ribbon of pvmt inside Gutter for length along existing pvmt  
 Estimated Extra material required to fill under sidewalk and maintain slopes grades  
 Extra 1' ribbon of pvmt poured mono with Curb&Gutter along existing pvmt to allow room for storm inlet installation  
 Extra UBAWS to cover existing Shoulder area left in place.  
 Extra 19.5 SY widening at Worley

VE Total Savings = \$ 21,131.25