

VALUE ENGINEERING CHANGE PROPOSAL  
MISSOURI DEPARTMENT OF TRANSPORTATION

Conceptual Proposal                       Final Proposal                      Date: 8/27/09  
Contract ID 090123-611                      Job No. J6S2027  
County Jefferson Route MM                      Original Bid Cost \$6,523,990  
Contractor Fred Weber, Inc.                      By Brett Lennon  
Designed By MoDOT                      Phone 314-316-6154

VECP# 09-80 (to be completed by C.O.)    VECF     or    PDVECF

1. Description of existing requirements and proposed change(s). Advantages/Disadvantages  
Existing: Existing design calls for retaining wall 09-6S2027-002 to be 2981 square feet.

Proposed: Proposed is to reduce the size of the retaining wall by allowing an exposed rock face to be the lower part of the wall. The new wall will be on top of the exposed rock and will be reduced to 1475 square feet. Advantages of this re-design would be a smaller wall to be constructed and a reduction of unclassified excavation.

2. Estimate of reduction in construction costs.. \$37,770.35

3. Prediction of any effects the proposed change(s) will have on other department costs, such as maintenance and operations. No known cost impact

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

8/27/09  
(date)

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

9/2/09                      Delayed construction of the wall  
(date)                      (effect)

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

N/A  
(date and/or dates)



**COST BREAKDOWN**

PROJECT: Route MM, Jefferson County

DATE : 8/27/2009

MODOT JOB NO.: J6S2027

DESCRIPTION OF WORK : Value Engineering Proposal

FWI JOB NO. : 409594

	<u>Area</u> <u>(SF)</u>	<u>Bid Price</u>	<u>COST</u>
Original Wall	2981.0	\$25.00	\$74,525.00
Proposed Wall	1475.0	\$25.00	\$36,875.00

	<u>Cubic Yards</u>	<u>Bid Price</u>	<u>COST</u>
Saved Unclassified Excavation	865.0	\$10.00	\$8,650.00

Pre-splitting rock face	(see attached breakdown)		<u>COST</u> \$8,529.65
-------------------------	--------------------------	--	---------------------------

TOTAL : \$37,770.35

PROJECT: Route MM, Jefferson County

DATE : 8/27/2009

MODOT JOB NO.: J6S2027

DESCRIPTION OF WORK : Additional time to pre-split rock face

FWI JOB NO. : 409594

<u>LABOR :</u>	<u>TOTAL HOURS</u>	<u>HR RATE</u>	<u>TOTAL OT HOURS</u>	<u>OT RATE</u>	<u>COST</u>
LABORERS	72.0	\$42.43	18.0	\$58.82	\$4,113.72
LAB. GENERAL FOREMAN	24.0	\$43.79	6.0	\$60.84	\$1,415.93
FRINGES INCLUDED					\$5,529.65
<u>EQUIPMENT :</u>			<u>TOT. HR</u>	<u>HR RATE</u>	<u>COST</u>
Tamrock Ranger 700 Rock Drill			30.0	\$100.00	\$3,000.00
					\$3,000.00
TOTAL :					\$8,529.65
					*****
					*****
TOTAL :					\$8,529.65

# 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)

This VE involves reduction of the size of the MSE wall by utilizing the rock face, in place, and building the MSE wall above the rock in lieu of removing the rock.

---

---

---

---

## *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.

---

---

---