

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

Conceptual Proposal       Final Proposal      Date 4/5/2012  
Contract ID 111021-F02      Job No. J6I2026  
County St. Louis      Original Bid Cost 7,333,068.00  
Contractor Millstone Bangert Inc.      By Jason Highley  
Designed By Crawford, Bunte, Brammeier(CBB)      Phone 314-974-4928  
VECP# 12-21 (to be completed by C.O.)      VECP  or PDVECP

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

Current plan entails 3 stages of traffic management for both the eastbound and westbound construction, extending traffic impacts into the 2013 season. Current plan provides for 3 lanes of travel in each direction. Our proposed plan provides for two eastbound lanes, two westbound lanes, and an additional lane westbound during peak travel times to alleviate traffic concerns. This plan allows for all paving to be complete in 2012 by constructing the eastbound and westbound phases concurrently, with a lag start for the eastbound phase. Starting the westbound phase and associated traffic impacts after Memorial Day holiday, will require a release from the August 15<sup>th</sup>, 2012 completion date for the westbound work. All paving lanes to be complete by September 14<sup>th</sup>, 2012. Some additional advantages include: safer workzone for employees and traveling public, shorter construction schedule, minimized traffic impacts, improved driver expectancy, and overall reduction in project cost.

**2. Estimate of reduction in construction costs.**      \$600,000 – \$700,000

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

Revising the current staging can eliminate long term maintenance costs associated with the adverse effects of pavement marking removals, removing anchor bolts from driving surfaces, and minimizing construction joints in new pavements.

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

4/15/2012  
(date)

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

4/15/2012      To prevent any delay in overall construction completion  
(date)      (effect)

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

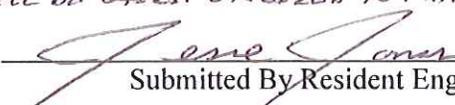
N/A  
(date and/or dates)

**Additional Comments:**

MBI believes that the traffic capacity analysis conducted for this project addresses the concerns conveyed to us by discussions with MoDOT regarding traffic queues. The data indicates that traffic delays of less than 10 minutes are achievable with this revised configuration, assuming normal traffic reductions between 5% and 10%.

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

**Comments:** THE CORE TEAM HAS MET SEVERAL TIMES TO REVIEW THIS PROPOSAL AND HAS COME TO THE COLLECTIVE AGREEMENT THAT THIS PROPOSAL WILL INCREASE SAFETY BY TAKING A TWO YEAR CONSTRUCTION PROJECT DOWN TO A FOUR MONTH CONSTRUCTION WINDOW. THIS PROPOSAL ALSO ELIMINATES ONE STAGE OF HIGHWAY CROSSES OVER TRAFFIC STAGING. THE USE OF A SMART WORKZONE SYSTEM IN CONJUNCTION WITH LAW ENFORCEMENT WILL BE ~~USED~~ UTILIZED TO MANAGE ANY QUEUING THAT WILL OCCUR

 \_\_\_\_\_ 4-12-12  
Submitted By Resident Engineer Date

**Comments:**  
I recommend approval of this concept based on the analysis done by the MoDOT core team for this traffic configuration.

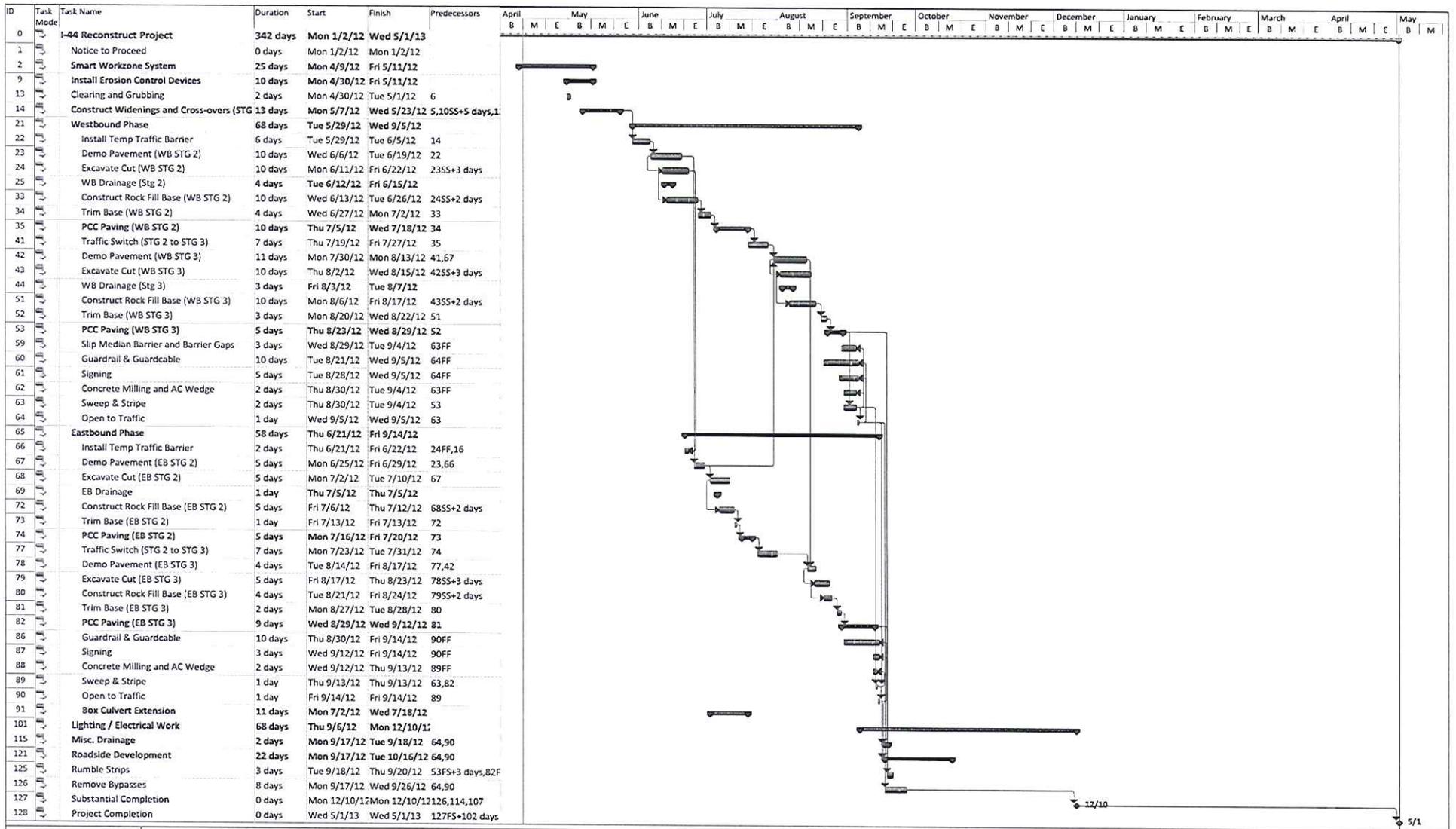
Approval Recommended \_\_\_\_\_  
 Rejection Recommended \_\_\_\_\_  
District Engineer Date

**Comments:**

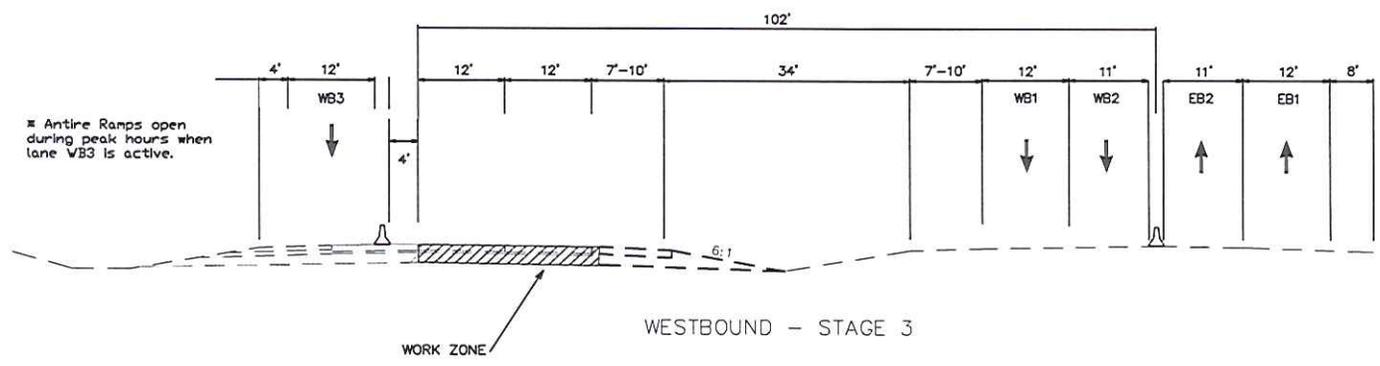
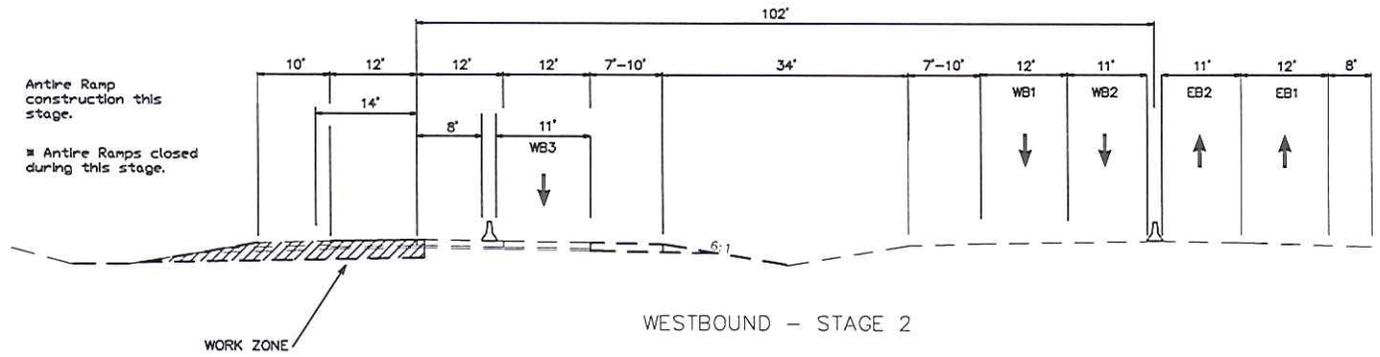
Approval Recommended \_\_\_\_\_  
 Rejection Recommended \_\_\_\_\_  
Federal Highway Administration Date  
Required for FHWA Full Oversight Projects

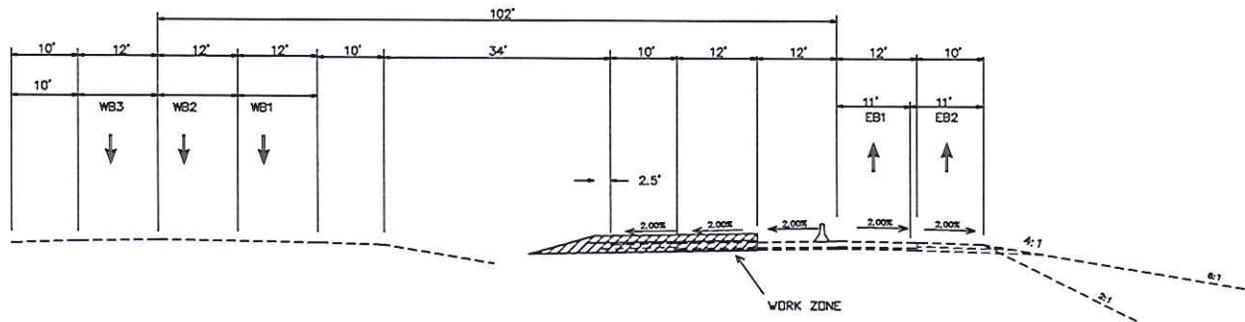
**Comments:**

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

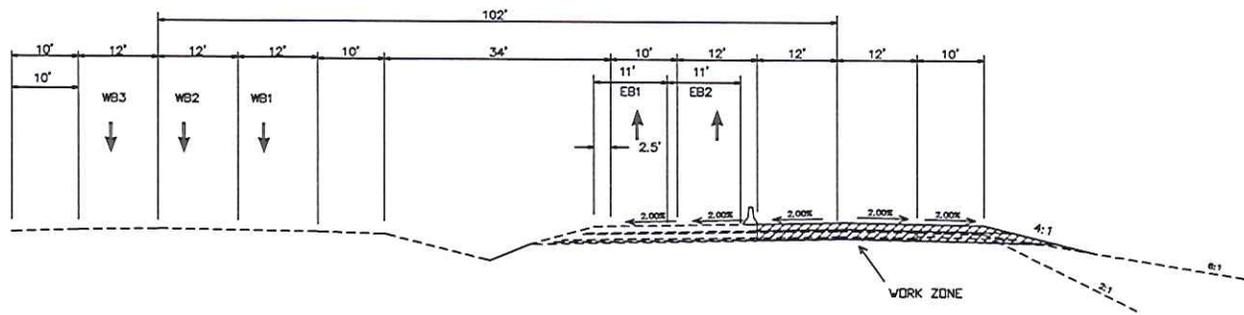


Project: I-44 Reconstruct Project Date: Wed 4/11/12	Task Split	Summary	External Milestone	Inactive Summary	Manual Summary Rollup	Finish-only	Critical Split
Milestone	Project Summary	External Tasks	Inactive Task	Manual Task	Manual Summary	Deadline	Progress
			Inactive Milestone	Duration-only	Start-only	Critical	





EASTBOUND - STAGE 2



EASTBOUND - STAGE 3