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**STATE ROUTE 4
BYPASS AUTHORITY**

DATE: October 12, 2006

TO: Board of Directors

FROM: Dale Dennis, Program Manager 

SUBJECT: Approve Segment 1, Construction Package 1, Contract Change Orders Nos. 42 and 43S1.

Recommendation: **APPROVE** Contract Change Orders (CCOs) 42 and 43S1 with Bay Cities Paving and Grading for an estimated cost of \$130,000.00 for Segment 1, Package 1, and **AUTHORIZE** the Secretary or his designee to sign the CCOs.

Discussion:

Contract Change Order 42:

This change compensates the contractor for building a retaining wall on the Laurel Road Extension Project just east of Empire Avenue. This retaining wall is required to protect the property owner's existing water well and pump house. Without the retaining wall, the planned fill slope would have buried the water well and pump house. This work will be paid for as Extra Work at Force Account for an estimated cost of \$35,000.00.

Contract Change Order 43S1:

This change order provides \$95,000.00 in supplemental funds for CCO 43, which overran the original force account estimate. CCO 43 was for the installation of three 610mm PVC sleeves for future sanitary sewer service within the Laurel Road Extension Project.

DD:nw:tr
G:\TransEng\2006\SR4BP\StaffReports\Oct-Dec\dd StaffReport 10-06 S1P1 Change Order 42 43S1.doc

ACTION OF BOARD ON _____ **APPROVED AS RECOMMENDED** ____ **OTHER** _____

VOTE OF DIRECTORS _____
UNANIMOUS (ABSENT _____)
AYES: _____ **NOES:** _____
ABSENT: _____ **ABSTAIN:** _____

I hereby certify that this is a true and correct copy of an action taken and entered on the minutes of the Board of Directors on the date shown.

ATTESTED _____
Secretary to the Authority

An explanation of the overruns is as follows:

- 1) The Engineer's original estimate assumed that the work would be done with equipment and personnel already on-site. This did not happen and equipment / crews had to be mobilized.
- 2) The work was performed on Saturdays and Sundays in order complete the work prior to FCI/DeSilva Gates starting work on the Laurel Road Extension project which resulted in higher labor costs.
- 3) The Engineer's original estimate underestimated the production rates.
- 4) Due to slippage of the trench slopes, the trench was much wider than planned, which resulted in significantly more roadway reconstruction costs.

Attached is a worksheet, prepared by Parsons Brinckerhoff, which shows a summary of the executed change orders to date, as well as the status of several pending change orders. The source for funding contract changes orders comes from three places: Supplemental funds, Authority-furnished materials and the traditional project contingency. Supplemental funds are set aside by the designer to cover items that are anticipated but are undefined until actual project construction. Authority-furnished materials are items that are needed for the project but excluded from the contractor bids. The contingency is for items not anticipated during the design of the project.

STATE ROUTE 4 BYPASS
SEGMENT 1/ PACKAGE 1
CCO LOG
PROJECT NO. 4660-6X4446



Original Bid Amount \$5,596,581.55
Other Contract Items \$531,319.35
Supplemental Funds \$373,500.00
Authority Furnished Items \$70,000.00
Contingency \$369,318.00
Total Available for CCO's \$1,344,137.35
Total Budget \$5,940,718.90

CCO No.	Description	CT Concurrence	To Contractor	From Contractor	To SR4BA	Date Executed	Date Approved By Board	Time Adj.	Supplemental Funds Y/N	Items	Force Account	Agreed Unit Price	Lump Sum	Adj. Of Comp.	CCO or Item Adjustment Estimated Amount	Cost to Date	Remarks
1	Traffic Control	N/A	07/29/04	08/03/04	08/05/04	08/12/04	08/09/04	0	Y		\$20,000.00				\$20,000.00	\$18,257.88	
2	Modify Structural Section to include CTB/ Additional Roadway construction on C-Line 2004	12/17/2004	12/01/04	12/16/04	12/22/04	01/18/05	01/13/05	0	N	(\$73,817.17)		\$363,707.88		\$30,828.08	\$320,518.58	\$298,511.85	
3	Modify Grading limits required by December 31, 2004	03/12/04	07/29/04	08/03/04	08/02/04	08/19/04	08/09/04	0	N/A						\$0.00	\$0.00	
4	Modifications for Erosion Control	9/28/2004	08/20/04	09/22/04	09/27/04	10/14/04	10/14/04	0	Y		\$25,000.00				\$25,000.00	\$25,000.00	
481	Create Stepped Slope/Fossil - Modify Erosion Control	12/21/2004	12/23/04	02/16/05	02/18/05	02/24/05	03/10/05	0	N	(\$8,481.45)	\$15,000.00		(\$10,000.00)		(\$8,481.45)	(\$3,481.45)	
482	Place Erosion Control on Slope w/ Hose	3/17/2005	04/06/05	06/22/05	07/09/05	07/19/05	07/14/05	0	N	\$683.00				\$4,708.00	\$5,371.00	\$5,371.00	
483	Supplement for Erosion Control	see above			07/24/06	07/24/06	08/10/06	0	N		\$42,000.00				\$42,000.00	\$35,184.83	
5	Modifications for Electrical Special Provisions	10/12/04	07/29/04	08/09/04	08/15/04	08/20/04	08/09/04	0	N/A						\$0.00	\$0.00	
6	Change Crank Cushion Arrays	7/8/2004	07/28/04	08/03/04	08/05/04	08/12/04	08/09/04	0	N/A					\$0.00	\$0.00	\$0.00	
7	Retaining Wall Dimensions	09/09/2004	09/07/04	11/02/04	11/09/04	11/16/04	01/13/05	0	N/A						\$0.00	\$0.00	
8	Modifications Drainage System #11	10/6/2004	10/01/04	10/06/04	10/08/04	10/24/04	10/14/04	0	N/A						\$10,000.00	\$10,000.00	
9	Subgrade Preparation under permeable base at wick drain locations	see above	08/25/04	08/30/04	08/02/04	08/16/04	08/09/04	0	N		\$10,000.00				\$10,000.00	\$10,000.00	
9S1	Supplement for Subgrade prep under permeable base at wick drain locations	see above			07/24/06	07/24/06	08/09/04	0	N		\$2,000.00				\$2,000.00	\$842.70	
10	Remove Buried Man made objects	8/5/2004	08/25/04	08/30/04	08/02/04	08/16/04	08/09/04	0	N		\$10,000.00				\$10,000.00	\$8,516.37	
11	Regrade Existing Lane Tree Way Fill	8/12/2004	08/30/04	09/22/04	09/27/04	10/14/04	09/09/04	0	N		\$15,000.00				\$15,000.00	\$3,181.59	
12	Deck Segment 1, Package 2 Alignment	N/A	09/16/04	09/22/04	09/27/04	10/14/04	10/14/04	0	N		\$45,000.00				\$45,000.00	\$45,000.00	
12S1	Supplement for SIP2 Alignment	N/A			07/24/06	07/24/06	08/10/06	0	N		\$10,000.00				\$10,000.00	\$8,125.77	
13	Soffit Flare Change	12/18/2004	11/10/04	12/10/04	12/16/04	12/23/04	01/13/05	0	N	\$2,013.99				\$93.10	\$2,367.09	\$2,367.09	re-issued on 12/18/04
14	Temporary Drainage Modifications, TC1 Line	12/17/2004	10/28/04	12/18/04	12/22/04	01/19/05	01/19/05	0	N		\$20,000.00				\$20,000.00	\$7,778.85	
15	Banker Anesthetic Treatment Details	3/21/2005	03/02/05	03/14/05	03/21/05	03/24/05	04/14/05	0	N				\$21,500.00		\$21,500.00	\$21,500.00	
16	TC1 Line MBGR SFT and/or assembly	12/14/2004	11/10/04	12/10/04	12/16/04	12/23/04	01/13/05	0	N			\$1,284.00			\$1,284.00	\$1,284.00	
17	Polishing support for Package 2 Wetlands Mitigation	N/A	11/23/04	12/03/04	12/07/04	12/16/04	01/13/05	0	N		\$2,000.00				\$2,000.00	\$1,002.17	
18	Remove and Dispose Trash/Debris	N/A	11/30/04	12/02/04	12/07/04	12/16/04	01/13/05	0	Y		\$10,000.00				\$10,000.00	\$10,000.00	
18S1	Supplement for Remove and Dispose Trash/Debris	N/A			07/24/06	07/24/06	03/08/05	0	N		\$3,000.00				\$3,000.00	\$1,595.47	
19	Segment 1 Package 2- Remove and Replace Water Line	N/A	02/18/05	02/25/05	02/28/05	03/08/05	03/10/05	0	N		\$150,000.00				\$150,000.00	\$148,572.86	
20	Additional SWPPP Work	N/A	12/20/04	02/15/05	02/15/05	02/24/05	03/10/05	0	Y		\$7,500.00				\$7,500.00	\$7,367.31	

NOTE: When a CCO is Executed/Modified, highlight the row

503

STATE ROUTE 4 BYPASS
SEGMENT 1/ PACKAGE 1
CCO LOG
PROJECT NO. 4660-6X4446



Original Bid Amount \$5,596,561.55
 *Other Contract Items \$531,319.35
 Supplemental Funds \$373,500.00
 Authority Furnished Items \$70,000.00
 Contingency \$369,318.00
 Total Available for CCO's \$1,344,137.35
 Total Budget \$5,940,718.90

CCO No.	Description	CT Concurrence	To Contractor	From Contractor	To SR4BA	Date Executed	Date Approved By Board	Time Adj.	Supplemental Funds Y/N	Items	Force Account	Agreed Unit Price	Lump Sum	Adj. Of Comp.	CCO or Item Adjustment Estimated Amount	Cost to Date	Remarks
21	Diets Undertrain	2/14/2005	02/01/05	02/10/05	02/15/05	02/22/05	02/10/05	0	N	(\$5,248.50)					(\$5,248.50)	(\$5,248.50)	
22*	Abandon Gas Line	N/A	02/08/05	02/17/05	02/17/05	02/25/05	02/10/05	0	N		\$15,000.00				\$15,000.00	\$15,000.00	
22S1*	Supplement for Abandoned Gas Line	N/A			07/24/06	07/24/06			N		\$7,000.00				\$7,000.00	\$5,152.84	
23*	Abandon Existing Water Well STA: BL 54-44	N/A	02/08/05	02/15/05	02/28/05	03/09/05	03/10/05	0	N		\$5,000.00				\$5,000.00	\$5,000.00	
23S1*	Supplement for Abandon existing Water Well	N/A			07/24/06	07/24/06			N		\$4,000.00				\$4,000.00	\$3,865.00	
24	Eliminate Permanent Erosion Control at LTW	N/A	02/18/05	02/18/05	03/29/05	03/31/05	04/14/05	0	N	(\$59,880.91)					(\$59,880.91)	(\$59,880.91)	University process
25	Added CTE Removal	N/A	09/01/05	09/01/05	08/02/05	10/10/05	12/08/05	0	N				\$1,500.00		\$1,500.00	\$1,500.00	
26	Modify Drainage System #11	N/A	05/03/05	06/22/05	10/28/05	11/02/05	07/14/09	0	N	\$22,732.80					\$22,732.80	\$22,732.80	
27*	Phase 900mm RCP for Laurel Extension	N/A	04/22/05	05/18/05	06/07/05	06/15/05	05/12/05	0	N		\$40,000.00				\$40,000.00	\$38,205.38	
28	Best 2 Piles	4/28/2005	11/18/05	12/08/05	12/14/05	12/15/05	12/08/05	0	N	(\$1,795.93)				\$28,615.07	(\$1,795.93)	(\$1,795.93)	SR4 retained unassigned - meet budget
29*	SBC Conduit South of CCWD Canal	N/A	09/01/05	09/02/05	09/22/05	09/28/05	09/28/05	0	N		\$10,000.00				\$10,000.00	\$10,000.00	
29S1*	Supplement for South of CCWD Canal	N/A			07/24/06	07/24/06			N		\$6,000.00				\$6,000.00	\$6,022.25	
30*	Fencing at Celisla Ranch	N/A	09/01/05	09/01/05	09/23/05	09/28/05	07/14/08	0	N		\$25,000.00				\$25,000.00	\$25,000.00	
30S1*	Supplement for Fencing at Celisla Ranch	N/A			07/24/06	07/24/06	01/12/06	0	N		\$5,000.00				\$5,000.00	\$2,856.18	
31*	CCWD lateral T.1 Abandonment	N/A	09/16/05	09/23/05	10/14/05	10/24/05	08/17/05	0	N				\$30,319.35		\$20,319.35	\$20,319.35	
32*	CCWD lateral T.1 Abandonment (Tap Machine)	N/A	09/16/05	09/23/05	10/14/05	10/24/05	12/08/05	0	N		\$25,000.00				\$25,000.00	\$20,505.31	
33*	Ditching of Segment 3 Right-of-Way	N/A	11/23/05	12/02/05	12/14/05	12/15/05	11/10/05	0	N		\$25,000.00				\$25,000.00	\$0.00	
34	Extend east end conform grinding	N/A	11/18/05	12/02/05	12/19/05	12/21/05	12/08/05	0	N		\$5,000.00				\$5,000.00	\$5,000.00	
34S1*	Supplement for east end conform grinding	N/A			07/24/06	07/24/06		0	N		\$1,000.00				\$1,000.00	\$393.86	
35*	Shallow Netting	N/A	11/23/05	12/02/05	12/14/05	12/15/05	12/08/05	0	N		\$15,000.00				\$15,000.00	\$1,809.92	SR4 retained unassigned - meet budget
36	MBGR Change	N/A	08/26/06	07/20/06	03/27/06	03/30/06	01/12/06	0	N	(\$546.00)					\$14,454.00	\$14,159.44	
37*	Lindsay Basin Ditching (50' outside work limits)	N/A	01/04/06	01/04/06	01/09/06	01/10/06	01/12/06	0	N		\$10,000.00				\$10,000.00	\$3,105.00	
38	WITHDRAWN														\$0.00		
38	LTW Sink Holes	N/A	03/08/06	03/13/06	03/27/06	03/30/06	03/09/06	deferred	N		\$75,000.00				\$75,000.00	\$75,000.00	
39S1*	Supplement for LTW Sink Holes	N/A			03/27/06	03/30/06	03/09/06	deferred	N		\$89,000.00				\$89,000.00	\$83,372.40	
40	Boarding Windows / Doors @ Laurel Road Extension	N/A	03/05/06	03/13/06	03/27/06	03/30/06	04/13/06	0	N		\$5,000.00				\$5,000.00	\$2,006.09	

NOTE: When a CCO is Executed/Withdrawn, highlight the row



STATE ROUTE 4 BYPASS
SEGMENT 1/ PACKAGE 1
CCO LOG
PROJECT NO. 466D-SX4446



Original Bid Amount \$5,596,581.55
Other Contract Items \$531,319.35
Supplemental Funds \$373,500.00
Authority Furnished Items \$70,000.00
Contingency \$269,318.00
Total Available for CCO's \$1,344,137.35
Total Budget \$5,940,718.90

CCO COST ESTIMATE BREAKDOWN																		
CCO No.	Description	CT Concurrency	To Contractor	From Contractor	To SRBA	Date Executed	Date Approved By Board	Time Adj.	Supplemental Funds Y/N	Items	Force Account	Agreed Unit Price	Lump Sum	Adj. Of Comp.	CCO or Item Adjustment Estimated Amount	Cost to Date	Remarks	
41	LEM Excavation NOPC 1 Rehabilitation	N/A	04/19/08	05/29/08	08/02/08	05/05/08	08/03/08	0	N	\$48,755.60					\$48,755.60	\$48,755.60		
42	Retaining Wall	N/A	05/09/08					0	N		\$35,000.00				\$35,000.00	\$28,842.00		
43	PVC Sleeves for Sanitary Sewer	N/A	05/08/05	05/29/08	06/01/08	06/09/08	06/09/08	0	N		\$15,000.00				\$15,000.00	\$15,000.00		
43S*	Supplement	N/A						0	N		\$95,000.00				\$95,000.00	\$91,874.32		
															SUB-TOTAL	\$1,279,615.92	\$1,128,553.92	

Item No.	Contract Item Overrun (Underrun)	Units	Engineer's Quantity	CCO Increases/Decreases	Total Qty. to Date	Price per Unit	Engineer's Est.	Actual Quantity to Date	Total Cost to Date	Quantity Overrun (Underrun)	Total Percent to Date	Percent Overrun (Underrun)	Amount of Overrun (Underrun)	Remarks									
SUB-TOTAL															\$0.00								

TOTAL ADDITIONAL COST TO DATE = \$1,128,553.92
ORIGINAL BID AMOUNT = \$5,996,581.55
REVISED PROJECT COST (INCLUDING PENDING AND EXECUTED CCO'S) = \$6,725,135.47
REMAINING BUDGET = \$215,583.43

**STATE ROUTE 4
BYPASS AUTHORITY**

DATE: October 12, 2006

TO: Board of Directors

FROM: Dale Dennis, Program Manager 

SUBJECT: Approve Segment 1, Construction Package 2, Contract Change Orders

Recommendation: **APPROVE** Contract Change Order (CCO) No. 59 with De Silva Gates Construction/FCI Constructors JV, for an estimated cost increase of \$25,000.00 for Segment 1, Package 2, and **AUTHORIZE** the Secretary or his designee to sign the CCO.

Discussion

Contract Change Order #59

This change order is for contract number 4460-6X4450, Segment 1, Package 2.

This change increases the column flare gap from 50mm to 100mm for the Contra Costa Canal Bridges. This change was mandated by a Caltrans directive to designers to increase gaps between column flares and bridge soffit. Caltrans determined that the 2-inch (50mm) specified flare gap may lead to an increase in the demands on the bent cap due to gap closure. Accordingly, all flared column details shall incorporate a 4-inch (100mm) gap between the column flare and the bridge soffit where practicable. Since the bridge soffit has been placed at the Laurel Road overcrossing and the Lone Tree Way undercrossing, Caltrans has determined that this change is not practicable at these locations, and therefore does not need to be modified. Since the columns have been placed at Contra Costa Canal Bridges, but not covered by the soffit, it is practical to remove 50mm of concrete on the flares to comply with the new design directive.

DD:nw:tr

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ACTION OF BOARD ON _____ **APPROVED AS RECOMMENDED** ___ **OTHER** ___

VOTE OF DIRECTORS

_____ **UNANIMOUS (ABSENT** _____)
AYES: _____ **NOES:** _____
ABSENT: _____ **ABSTAIN:** _____

I hereby certify that this is a true and correct copy of an action taken and entered on the minutes of the Board of Directors on the date shown.

ATTESTED _____
Secretary to the Authority

There is an estimated cost increase of \$25,000.00 by reason of this change. This change was written as Extra Work at Force Account. The contract time for this change is being deferred until after the work is completed. This work is not on the critical path for the project and there should be no time extension due to this change order.

Attached is a worksheet, prepared by Parsons Brinckerhoff, which shows a summary of the executed change orders to date, as well as the status of several pending change orders. The source for funding contract changes orders comes from three places: Supplemental funds, Authority-furnished materials and the traditional project contingency. Supplemental funds are set aside by the designer to cover items that are anticipated but are undefined until actual project construction. Authority-furnished materials are items that are needed for the project but excluded from the contractor bids. The contingency is for items not anticipated during the design of the project.



STATE ROUTE 4 BYPASS
SEGMENT 1/PACKAGE 2
CCO LOG
PROJECT NO. 4660-SX4450, 4660-6X4374, 4660-6X4451



Original Bid Amount \$1,245,500.00
Supplemental Funds \$277,000.00
Authority Furnished Items \$2,791,433.78
Contractor Contingency \$4,036,933.78
Total Available for CCO's \$8,350,867.56

CCO COST ESTIMATE BREAKDOWN

CCO No.	Description	CT Concurrence	To Contractor	From Contractor	To SM/BA	Date Approved by SM/BA Manager	Date Approved by Board	Time Adj.	Supplemental Funds Y/N	Items	Force Account	Agreed Unit Price	Lump Sum	Adj. Of Comp.	CCO or Item Adj. Estimated Amount	Remarks
1	Traffic Control	N/A	07/10/05	08/23/05	08/14/05	08/28/05	09/08/05	0	Y		25,000.00				\$25,000.00	
1S1	Traffic Control Supplemental Funds	N/A	1/30/2006	2/29/2006 (unsigned)	03/27/06	03/30/06	04/13/06	0	Y		10,000.00				\$10,000.00	issued unilaterally
1S2	Supplemental Funds	N/A	4/4/06	N/A	08/10/06	08/10/06	08/10/06	0	Y		\$1,000.00				\$5,000.00	
2	CPM Software	N/A	07/28/05	08/23/05	08/14/05	08/28/05	09/08/05	0	N				(\$2,000.00)		(\$2,000.00)	
3	Modify Traffic Handling @ LTW	N/A	07/20/05	08/23/05	08/14/05	08/28/05	09/08/05	0	N				\$0.00		\$0.00	
4	Piercing	N/A	08/09/05	08/23/05	08/14/05	08/28/05	09/08/05	0	Y		10,000.00				\$10,000.00	
5	Additional Temp Fence at the CCMD Canal	N/A	08/18/05	08/23/05	08/23/05	08/28/05	09/08/05	0	N		2,000.00				\$2,000.00	
6	Debris Removal on the ROW	N/A	08/18/05	08/23/05	08/23/05	08/28/05	09/08/05	0	Y		15,000.00				\$15,000.00	
7	Nelson Ranch - Deductive Credit	N/A	08/18/05	10/18/05	10/31/05	11/02/05	09/08/05	0	N				(\$61,392.50)		(\$61,392.50)	
8	Weedand Modifications: Seed mixes, pesticides	N/A	08/23/05	11/05/05	11/17/05	11/23/05	10/13/05	0	N		12,000.00		\$0.00		\$12,000.00	
9	PM Welding Specification	N/A	08/23/05	08/23/05	08/23/05	08/28/05	10/13/05	0	N				\$7,800.00		\$40,752.00	
10	Sound Wall #2 Mod	N/A	6/22/06	6/26/06 - unsigned			08/10/06	0	N						\$25,000.00	
11	LR3 Sign Removal	N/A	8/2/06	8/2/06 (returned unsigned)			10/13/05	Deferred	N		25,000.00				\$25,000.00	unilateral - 11/15/05
11S1	LR3 Sign Removal (supplemental funds)	N/A	11/15/05 (resub)	10/18/2005 (returned unsigned)			10/13/05	Deferred	N		200,000.00				\$200,000.00	unilateral - 11/18/05
12	Swallow Nest Removal - WITHDRAWN	N/A	8/13/05	12/05/05	12/14/05	12/15/05	10/13/05	Deferred	N		20,000.00				\$20,000.00	
13	Removed Built Man-made objects	N/A	8/7/2005 (resub)					Deferred	N						\$0.00	10/20/05 returned for resubmit 10/28/05 resub returned UNDER PROTEST.
14	LTW Temp Signal Modification	N/A	10/05/05 - resub 1/27/06 - resub	9/29/2005 - unsigned 2/7/06 - unsigned	01/17/06	01/17/06	02/05/06	Deferred	N						\$10,000.00	
15	Relocation of CI #14	N/A	11/10/05 (resub)	12/08/05	12/14/05	12/15/05	10/13/05	0	N		10,000.00				\$10,000.00	
15S1	Relocation of CI #14 (Supplemental)	N/A	11/10/05 (resub)					0	N		10,000.00				\$10,000.00	
16	Modification of DU #13	N/A	08/23/05	11/15/05	11/17/05	11/23/05	10/13/05	0	N		20,000.00				\$20,000.00	
17	Package A Temporary Mutch Changes	N/A	10/32/005 original transmitt	11/10/05	11/15/05	11/21/05	10/13/05	0	N			(\$43,200.00)			(\$43,200.00)	
18	Package C Temporary Mutch Changes	N/A	10/03/05	11/07/05	11/09/05	11/21/05	10/13/05	0	N			(\$5,000.00)			(\$5,000.00)	
19	Bid Schedule B Access - Owner Float - WITHDRAWN	N/A	2/22/06	5/23/06	04/13/06	04/13/06	03/10/06	Deferred	N		800,000.00				\$80,000.00	
20	Electrical Modification	N/A	3/24/2006	01/25/06	04/13/06	04/13/06	05/11/06	0	N		(\$49,083.00)		\$13,785.00		\$10,242.00	4-14-06 - unilateral
21	Various Drainage Modifications	N/A	4/18/06	03/10/06	03/17/06	03/20/06	04/13/06	0	N				\$0.00		\$0.00	originally sent 11/08/05
22	Leak Tree Way Thruway Deck Truss Bus	N/A	11/08/05	03/14/06	03/17/06	03/20/06	04/13/06	Deferred	N		1,200.00		\$3,152.00		\$4,352.00	originally sent 12/18/05, resub 1/10/06
23	Early Access for Bid B tree Removal	N/A	02/18/06	01/10/06	01/12/06	01/18/06	02/09/06	0	N				\$0.00		\$0.00	
24	LTW - Prestress Dimension Changes	N/A	1/27/06	2/7/2006	05/08/06	05/10/06	05/11/06	0	N				\$0.00		\$0.00	
25	Wake resubbing and asking backcharges	N/A	2/22/2006	4/28/06 (resub 5/20/06)	03/27/06	03/30/06	04/13/06	0	N		\$5,000.00				\$5,281.00	issued unilaterally
26	LTW Resubbing	N/A	4/08 - resub					0	N		\$1,281.00				\$6,281.00	issued unilaterally



Original Bid Amount \$1,245,500.00
Supplemental Funds \$274,800.00
Authority Furnished Items \$2,791,433.78
Authority Furnished by CCOs \$4,036,933.78
Total Available for CCOs \$6,036,933.78
Total Budget \$2,151,465.98

CCO COST ESTIMATE BREAKDOWN

CCO No.	Description	Bid Schedule	CT Concurrence	To Contractor	From Contractor	To SR46A	Date Approved by SR4 Program Manager	Date Approved By Board	Time Adj.	Supplemental Funds Y/N	Items	Force Account	Agreed Unit Price	Lump Sum	Adj. Of Comp.	CCO or Item Adjustment Estimated Amount	Remarks
27	UPRR Right of Entry	B	N/A	1/5/2006	4/5/06 - NCP		03/27/06	04/13/06	0	N		\$1,000.00				\$1,000.00	Issued unilaterally
27S1	UPRR Right of Entry	B	N/A	3/27/06 issued		enabled	06/28/06		0	N		\$10,000.00				\$10,000.00	
28	Bid Schedule B Various Changes	B	N/A	2/1/2006	4/28/06 (Issued)		04/13/06	05/11/06	0	N	(\$17,600.00)	\$35,000.00		\$0.00	\$15,000.00	\$32,100.00	returned unassigned - NCP #FS
29	Aerial Photos	A	N/A	4/14/06 unissued	5/2/06	03/17/06	03/20/06	04/13/06	0	N		\$5,000.00				\$5,000.00	
30	Lone Tree Way Abutment 3 Shielding	A	N/A	2/1/06 issued	01/5/06	03/17/06	03/27/06	04/13/06	0	N		\$5,000.00		\$0.00		\$5,000.00	Issued unilaterally
30S1	Supplemental Funds for Lone Tree Way Abutment 3 Shielding	A	N/A	4/11/2006			08/10/06			N		\$2,000.00				\$2,000.00	
31	Fence Modifications at Country Hills	A	N/A	8/14/06 - unissued					0	N	\$892.00					\$892.00	Issued unilaterally
32	Access to I-74 South Embankment - MITHOCANN	A	N/A							N						\$0.00	
33	Laurel Road OH Abutment 1 Footing Re-design (sewer conflict)	B	N/A							N						\$0.00	
34	LR3 Slide Repair	A	3/23/2006	03/13/06	03/24/06	03/14/06	03/05/06	03/05/06	0	N		\$225,000.00				\$225,000.00	Issued unilaterally - returned unassigned and under contract
34S1	Supplemental funds for LR3 Slide Repair	A	3/23/2006	03/17/06	03/24/06	03/13/06	03/16/06	03/08/06	0	N	\$598,837.00	\$100,000.00				\$100,000.00	Issued unilaterally - returned unassigned and under contract
35	Structural Section Modifications	A	3/23/2006	04/14/06			04/13/06	04/13/06	0	N						\$598,837.00	Issued unilaterally - returned unassigned and under contract
35S1	Structure Section Modifications	A	3/23/2006	3/27/2006 unissued	4/5/2006 unassigned	03/24/06	03/27/06	04/13/06	0	N	\$20,254.00					\$20,254.00	
36	Bid C Modifications	C	N/A						0	N	(\$255,058.00)	\$85,000.00				(\$170,058.00)	Issued unilaterally returned unassigned
37	Jeffery Way Underground Moth	A	N/A						0	N						\$0.00	
38	Temporary Water Control for Bid Schedule C	C	N/A	4/10/2006	8/15/06	8/15/06 unassigned	08/10/06	08/10/06	0	N		\$100,000.00				\$100,000.00	Issued unilaterally
39	Bid Schedule C Asphalt Removal	C	N/A	8/22/06 (revised) 8/14/06 - unissued	8/15/06 unassigned	8/15/06 unassigned	08/10/06	08/10/06	0	N	(\$7,350.00)	\$30,000.00				\$22,650.00	Issued unilaterally
40	CCWD Access Road - Back Gate	A	N/A							N						\$0.00	
41	Package 1 Stage 2 Access	A	N/A	05/28/06	05/28/06	05/21/06	08/08/06	08/08/06	0	N	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
42	LTW GCA / COB Logo Removal	A	N/A	8/14/06 - unissued	8/28/06 unassigned	8/15/06 unassigned	08/10/06	08/10/06	0	N	(\$65,000.00)				\$25,000.00	(\$40,000.00)	Issued unilaterally
43	Added Driveway - J Line	A	N/A	8/12/06	9/19/06 - unassigned		08/10/06	08/10/06	0	N	\$7,068.00			\$250.00		\$7,318.00	Issued on 9/26/06
44	Remove Buried Man Made Objects Bid Schedule C	C	N/A	5/9/2006	8/25/06 unassigned	8/25/06 unassigned	08/10/06	08/10/06	0	N		\$20,000.00				\$20,000.00	Issued unilaterally
45	ADL Clarification	A	N/A	8/21/06 - unissued	03/24/06	10/27/06			0	N	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
46	Minor Profile Change LR2, TOR1, OL1 Lines	A	N/A	7/25/06						N						\$0.00	
47	Drainage System 10	C	N/A							N						\$0.00	
48	Concrete Cap for DU 23 h	A	N/A							N						\$0.00	
49	40mm Wasteline adjustments	A	N/A	07/07/06	8/24/06 - unassigned				0	N		\$20,000.00				\$20,000.00	
50	Soundwall Block Color Change	A	N/A							N						\$0.00	
51	Various Drainage Modifications	A	N/A							N						\$0.00	
52	AC Binder (PG for AR	A	8/23/2006	08/22/06						N						\$0.00	

504



Original Bid Amount \$8,517,511.61
 Supplemental Funds \$1,245,500.00
 Authority Furnished Items \$7,271,031.78
 Contingency \$4,036,933.78
 Total Available for CCOs \$4,036,933.78
 Total Budget \$2,631,865.38

CCO No.	Description	Bid Schedule	CT Concurrence	To Contractor	From Contractor	To SRBA	Date Approved by SRM Program Manager	Date Approved by Board	Time Adj.	Supplemental Funds Y/N	Items	Force Account	Agreed Unit Price	Lump Sum	Adj. Of Comp.	CCO or Item Adjustment Estimated Amount	Remarks
53	Protection of 400mm wall/line on Laurel Road	A								N						\$0.00	
54	Revised Striping / Crash Cushions @ CNB6 Line	B		08/28/08						N	\$12,418.00			\$2,310.00		\$14,728.00	
55	Early Access Bid B	B		08/14/2008 resort - 10/2/06	08/19/08 - unassigned					N					\$0.00	\$0.00	
56	Standard Section at TOR1 Conform Line	A								N						\$0.00	
57	Laurel Road Underdrain Charges	A								N						\$0.00	
58																\$0.00	
59	Increase of Column Flares	A		08/13/06					deferred	N		\$25,000.00				\$25,000.00	
60	Column Flare Changes	A		09/14/06					0	N				\$0.00		\$0.00	
SUB-TOTAL																\$1,391,153.50	

Item No.	Contract Item Overrun (Underrun)	Units	Engineer's Quantity	CCO Increases/Decreases	Total Qty. to Date	Price per Unit	Engineer's Est.	Actual Quantity to Date	Total Cost to Date	Quantity Overrun (Underrun)	Total Percent to Date	Percent Overrun (Underrun)	Amount of Overrun (Underrun)	Remarks	
SUB-TOTAL															\$0.00


TOTAL ADDITIONAL COST TO DATE = \$1,391,153.50
 ORIGINAL BID AMOUNT = \$8,517,511.61
 REVISED PROJECT COST (INCLUDING PENDING AND EXECUTED CCO'S) = \$9,908,665.10
 REMAINING BUDGET (includes SFM) = \$2,631,865.38

505

**STATE ROUTE 4
BYPASS AUTHORITY**

DATE: October 12, 2006

TO: Board of Directors

FROM: Dale Dennis, Program Manager 

SUBJECT: Segment 3 Construction Support Services by Parsons Brinckerhoff, Parikh, Richard Loewke and Fehr and Peers

Recommendation: **APPROVE** Consulting Services Agreement amendments with the following consultants for on-call support services during the construction of Segment 3 as directed by Authority staff, and **AUTHORIZE** the Secretary or his designee to sign them on behalf of the Authority.

1. Parsons Brinckerhoff (PB) – Construction inspection, management of ground squirrels in the amount of \$50,400.00 for a not-to-exceed contract amount of \$3,714,485.00 and extend the term of the contract to December 31, 2008.
2. Parikh Consultants – On-call geotechnical and environmental site assessment services in the amount of \$76,944.14 for a not-to-exceed contract amount of \$636,418.24 and extend the term to June 30, 2008.
3. Richard Loewke – Regulatory agency environmental permit compliance and construction monitoring, as well as riparian Mitigation and Monitoring Plan (MMP) implementation in the amount of \$209,890.00 for a not-to-exceed amount of \$705,840.00 and extend the term to December 31 2007.
4. Fehr and Peers – Technical Support for Signal and Electrical Issues in the amount of \$8,600.00 for a not-to-exceed contract amount of \$170,900.00 and extend the term to June 30, 2008.

Parsons Brinckerhoff – It is proposed to amend PB's contract to assist Authority staff to manage the ground squirrel population in Segment 3. There are ground squirrel burrows located throughout the Segment 3 mainline right-of-way with two locations of particularly dense squirrel population (old Gun Club site south to Fairview Avenue and the large hill south of Marsh Creek Road) where the majority of the embankment

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ACTION OF BOARD ON _____

APPROVED AS RECOMMENDED ___ **OTHER** ___

VOTE OF DIRECTORS
UNANIMOUS (ABSENT _____)
AYES: _____ **NOES:** _____
ABSENT: _____ **ABSTAIN:** _____

I hereby certify that this is a true and correct copy of an action taken and entered on the minutes of the Board of Directors on the date shown.

ATTESTED _____
Secretary to the Authority

material will be obtained. Staff also recommends implementing a pest control plan to reduce the likelihood of burrowing owls establishing new nests using a combination of methods, including fumigation by a pest control operator licensed by the County Agricultural Department. The proposed amendment, in the amount of \$50,400.00, is described in more detail in the letter dated October 4, 2006 from PB.

Parikh Consultants – Parikh Consultants was retained by the Authority in 2001 to provide geotechnical engineering services and supporting documentation required for the design of Segment 3. This work is complete and Staff now recommends amending the existing contract with Parikh to include on-call geotechnical services, estimated at \$65,097.14, that may be needed during the construction of Segment 3.

It is also recommended to include the work by Geocon, a sub-consultant to Parikh, for construction related environmental site assessment services. In 2003, Geocon prepared a Site Investigation Report for the old Gun Club site documenting the elevated levels of lead contamination due to the presence of lead shot and identified elevated concentrations of petroleum hydrocarbons from broken skeet targets (clay pigeons) used by the previous owners. This report was the basis for the Removal Action Workplan (RAW) approved by the Department of Toxics Substance Control (DTSC) which describes the plan for the contaminated material. The material will be left in place and covered by approximately 8 to 10 meters of fill (26 to 33 feet) with the new Segment 3 roadway passing directly over the contaminated area. This approach has been approved by Caltrans and will require additional field work and documentation by Geocon estimated at \$11,874.00 (which includes Parikh's 10% markup). The work is described in more detail in the attached letter from Parikh dated October 5, 2006 and the total contract increase is \$76,944.14.

Richard Loewke – Richard Loewke has worked with staff since the summer of 2003 on permits and mitigation requirements for Segment 3. All of the permits have now been issued and have strict terms and conditions which must be adhered to and documented during construction, including construction monitoring and weekly surveying during the first year of the project. In addition, a riparian Mitigation and Monitoring Plan (MMP) needs to be implemented. Staff proposes to amend Loewke's contract to include this work estimated at \$209,890.00. The work is described by task in the attached letter from Loewke dated October 4, 2006.

Fehr and Peers – This firm designed the Concord Avenue/Walnut Boulevard signal and provided technical support for the remaining Segment 3 signals for the Authority. It is now proposed to amend the existing contract by \$8,600.00 to provide on-call construction support for any signal or electrical issues that may arise during construction. The work is described in more detail in the attached letter from Fehr and Peers dated October 2, 2006.

5E3



**Parsons
Brinckerhoff**
3260 Lone Tree Way, Ste. 104
Antioch, CA 94509

October 4, 2006

Mr. Dale Dennis
State Route 4 Bypass Authority
255 Glacier Drive
Martinez, CA 94553

SUBJECT: AMENDMENT NO. 3 REQUEST – GROUND SQUIRREL CONTROL PROGRAM
SR4 Bypass, Segment 3

Dear Mr. Dennis,

Per your request, PB will provide the Ground Squirrel Control Program as detailed by the project Biologist.

Although the details of the program are subject to change by the Biologist, we estimate the initial cost to be approximately \$5,000 per month (based on cost estimates from a similar program that was originally outlined for Segment 1). It is anticipated that the program will be needed until the mass grading is well under way for the entire project. The costs will decrease as the area of undisturbed land decreases. Furthermore, we estimate that a one-year period will elapse before the contractor has begun or completed grading for the entire project.


Based on the above, we recommend an average budget of \$4,000 per month for 12 months. This equates to **\$50,400**, including PB's standard 5% markup.

It is imperative that we proceed with this program prior to the nesting season for the burrowing owl. As soon as the details of the program are completely detailed, I will submit a detailed scope and cost estimate for your review.

Thank you for consideration of this request. If you have any questions, please contact me at 925-756-2382 / littell@pbworld.com.

Sincerely,

Parsons Brinckerhoff Construction Services, Inc.


Bart Littell, PE
Vice President / Construction Manager