

**SUBMITTAL TO THE BOARD OF SUPERVISORS
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA**

319



FROM: TLMA – Transportation Department

SUBMITTAL DATE:
July 8, 2014

SUBJECT: Analysis of Transportation Department Contract Change Orders - July 2012 through June 2013. All/All Districts; [\$0]

RECOMMENDED MOTION: That the Board of Supervisors receive and file this analysis of the Contract Change Orders completed by the Transportation Department in this time period.

BACKGROUND: On May 16, 1995 (Agenda Item 3-25), the Board of Supervisors requested periodic reports regarding the Change Order rates from the Transportation Department (Department). At that time, the Department set a goal to obtain an average annual Change Order rate not to exceed 4%. Attachment 1 illustrates the trend of contract statistics over the past 22 fiscal years, indicating the Change Order rates for that time period. From the beginning of the 1995/1996 fiscal year (when the Department had fully established the project manager form of project delivery and began implementing procedures to control the Contract Change Order rate) through the end of the 2012/2013 fiscal year, the overall average rate to date is 4.46%.

Departmental Concurrence

Patricia Romo
Assistant Director of Transportation
for Juan C. Perez
Director of Transportation and Land Management

FINANCIAL DATA	Current Fiscal Year:	Next Fiscal Year:	Total Cost:	Ongoing Cost:	POLICY/CONSENT (Per Exec. Office)
COST	\$ 0	\$ 0	\$ 0	\$ 0	Consent <input type="checkbox"/> Policy <input checked="" type="checkbox"/>
NET COUNTY COST	\$ 0	\$ 0	\$ 0	\$ 0	
SOURCE OF FUNDS: There are no General Funds used for this item.				Budget Adjustment:	N/A
				For Fiscal Year:	14/15

C.E.O. RECOMMENDATION:

APPROVE

BY:
Tina Grande

County Executive Office Signature

MINUTES OF THE BOARD OF SUPERVISORS

Positions Added
 Change Order

A-30
 4/5 Vote

Prev. Agn. Ref.: 5/16/95, Item 3-25 | **District:** All/All | **Agenda Number:**

3-112

BACKGROUND:
Summary (continued)

This report presents the construction contract cost data and Change Order rates for fiscal year 2012/2013. There are currently numerous ongoing multi-year construction projects on the Interstate 10 corridor in the desert area, the Interstate 215 corridor, the Interstate 15 corridor, the State Route 79 corridor, and one bridge replacement project across the Santa Ana River, for which Notices of Completion have not yet been filed, that are not reflected in the contract amounts shown in this report. In fiscal year 2012/2013, the Department filed Notices of Completion on 19 road construction contracts totaling \$20,830,261. The Change Orders for these projects issued as part of the normal course of construction totaled \$742,398, a rate of 3.6%, which is below our 4% target. About 42% of the projects (eight) had no Change Orders, and there were three projects with Change Orders that exceeded 10% of the original contract bid amount. The three projects with a Change Order rate that exceeded 10% were the Rancho California Road Roundabout, the Washington Street and 41st Avenue Traffic Signal, and the Old Elsinore Road/Clark Street/Rider Street Traffic Signal with six Change Orders, totaling \$263,805.

On the Rancho California Road Roundabout Project, the primary Change Order amount (\$103,622) was due to a request from the Eastern Municipal Water District to install a casing under the new improvements so that the future sewer force main that will serve the Wine Country will not impact the newly constructed improvements. Another \$62,772 in Change Orders was necessary to modify the intersection geometrics to enhance its use by trucks. This was the first roundabout designed and constructed by the Department, and future roundabouts will incorporate these fine-tuned design features

The Washington Street and 41st Avenue Traffic Signal Project had an interconnect conduit installation along 41st Avenue that required a significant amount of potholing to avoid conflicts with the water, sewer, gas, cable, and telephone services for the adjacent residences.

The Old Elsinore Road/Clark Street/Rider Street Traffic Signal Project illustrates the difficulty in retrofitting an old and oddly shaped intersection to provide signalization for vehicular, pedestrian, and equestrian traffic. The drainage also proved difficult to address. The Change Orders for this project required field modification to improve drainage and enhance equestrian and pedestrian access to address these challenges, which added \$47,411 to the overall project cost, a 12.22% increase.

The Department continues to strive to minimize Change Orders through incorporating lessons-learned on past projects into future designs, performing more constructability reviews, and implementing a third-party independent quantity review to help address some of the major avoidable type changes. A listing of projects with the descriptions and reasons for the entire contract Change Orders for fiscal year 2012/2013 is available from the Department.

Impact on Residents and Businesses

The completed projects have improved congestion and safety for residents and businesses.

SUPPLEMENTAL:
Additional Fiscal Information

N/A

Contract History and Price Reasonableness

The construction contract costs are comparable to statewide averages of similar projects.

ATTACHMENTS:

- A. Construction Contracts Change Order Rates for the Period of July 1991 through June 2012



Riverside County Transportation Construction Contracts Change Order Rates

Summary of Yearly Results for Projects that a Notice of Completion has been Issued:

	Total Contracts	Total #CCO's	CCO's = 0	CCO's >10%	Total Bid Amounts	Total C.C.O Amount	Change Order %	Total Project Const. Cost
July 1991 - June 1992:	32	N/A	5	14	\$32,461,870.43	\$4,993,214.43	15.38%	\$37,526,088.18
July 1992 - June 1993:	26	N/A	5	12	\$23,776,027.00	\$4,105,665.18	17.27%	\$27,921,984.28
July 1993 - June 1994:	34	N/A	10	11	\$17,604,995.10	\$1,444,416.66	8.20%	\$18,995,372.77
July 1994 - June 1995:	30	268	3	16	\$33,116,622.75	\$2,994,852.15	9.04%	\$36,491,784.99
July 1995 - June 1996:	28	187	8	3	\$33,111,606.93	\$1,449,114.20	4.38%	\$34,223,630.17
July 1996 - June 1997:	31	54	10	2	\$19,359,692.36	\$528,836.04	2.73%	\$19,600,956.62
July 1997 - June 1998:	24	71	8	1	\$26,312,159.82	\$638,383.47	2.43%	\$27,041,530.97
July 1998 - June 1999:	21	65	5	2	\$17,449,359.09	\$996,241.17	5.14%	\$18,015,711.01
July 1999 - June 2000:	23	56	7	1	\$18,973,174.39	\$170,823.28	0.90%	\$18,995,903.27
July 2000 - June 2001:	25	72	6	2	\$17,268,546.14	\$1,509,103.94	8.74%	\$18,728,304.78
July 2001 - June 2002:	31	34	9	2	\$19,242,582.16	\$254,025.33	1.32%	\$19,015,424.61
July 2002 - June 2003:	16	51	1	1	\$12,122,501.47	\$388,178.25	3.20%	\$12,412,498.37
July 2003 - June 2004:	22	54	5	3	\$13,730,394.75	\$123,424.42	0.90%	\$13,937,898.23
July 2004 - June 2005:	27	42	7	0	\$11,837,051.59	\$213,722.98	1.81%	\$11,679,025.31
July 2005 - June 2006:	18	26	6	1	\$8,990,544.99	\$166,078.31	1.85%	\$8,985,032.83
July 2006 - June 2007:	26	62	9	2	\$28,992,325.65	\$1,531,066.05	5.28%	\$29,932,364.92
July 2007 - June 2008: <small>Developer Requested and Funded Changes on the Newport Road Project 07/08:</small>	21 13	33 13	11 3	3	\$69,114,974.64	\$2,009,888.99	2.91%	\$75,466,950.32
July 2008 - June 2009:	23	54	9	2	\$48,004,799.60	\$1,672,540.29	3.48%	\$48,114,294.24
July 2009 - June 2010:	19	10	14	0	\$12,184,523.30	\$327,164.97	2.69%	\$12,915,067.24
July 2010 - June 2011:	14	25	9	0	\$19,499,204.76	\$782,122.09	4.01%	\$20,779,145.84
July 2011 - June 2012:	23	27	6	3	\$27,338,013.16	\$1,284,987.95	4.70%	\$28,200,512.14
July 2012 - June 2013:	19	27	8	3	\$20,830,260.55	\$742,398.17	3.56%	\$21,715,647.28
Totals for July 1991 through June 2013:	533	1231	161	84	\$531,321,230.63	\$32,468,659.44	6.11%	\$560,605,128.37

*Rate Since Implementation of Project Manager Format of Project Delivery - July 1995 through June 2012

* Rate Excluding the 13 Developer Requested Changes on the Newport Road Project of \$4,242,411.12 =

4.46%

3.46%

Riverside County Transportation Department



Contract Change Order Detail

for the study period of

July 1, 2012 thru June 30, 2013

Contract Change Order Summary

Work Order #: B7-0791 Description: Main St & Michigan Ave Impr

Project Manager: MIKE MUEITING Design Firm: COUNTY Construction Manager: COUNTY
 Engineer's Estimate: \$2,790,650.00 Contractor: MAMCO, INC.
 Bid Amount: \$1,844,164.00 Start Date: 1/17/2012
 Final Amount: \$2,031,903.29 Completion Date: 1/29/2013

CCO #	CCO Date	CCO Amount	CCO Description	Change Order Category	Avoidability
1	9/13/2012	\$24,980.00	This contract change order became necessary to extend the limits of the street improvement on Main St. to mitigate both storm water and landscape drainage. The continuous water flow has also saturated the underlying roadbed which deteriorated the asphalt concrete pavement requiring frequent maintenance. The extended curb and gutter will convey the drainage flow from Highgrove Community Park to the catch basin inlet at the southeasterly corner of Main St. at Michigan Ave. The proposed chain link fence at the top of the retaining wall around the existing drain bubbler adjacent to the park is for pedestrian safety.	Upgrades / Betterments	Avoidable
2	10/29/2012	\$35,500.00	This contract change order became necessary to relocate and/or extend the existing Fire Hydrants to accommodate the widening of the street and various other improvements that affected the existing location of the fire hydrants. The roadway improvement was in conjunction with the construction of Grand Terrace High School. The water facilities relocations and modifications were in accordance with the request of Colton Joint Unified School District and was concurred and inspected by Riverside Highland Water Company. Colton Joint Unified School District has agreed to reimburse the County of Riverside for this additional work.	Outside Agency Mandated	Extra/Others
3	10/29/2012	\$33,223.70	This contract change order became necessary because Colton Joint Unified School District has requested to provide continuous paved school pedestrian access along Main Street adjacent to the existing railroad tracks at the westerly limit of the project. Colton Joint Unified School District has agreed to reimburse the County of Riverside for this additional work.	Outside Agency Mandated	Extra/Others
4	10/29/2012	\$24,629.00	This contract change order became necessary to remove and relocate existing Masonry Block Walls and/or Wrought Fences along Main Street that were in conflict with the new roadway width and sidewalk improvements. The fence relocations were indicated on the approved plans, however, bid items for such work was inadvertently not incorporated in the contract.	Design Omission	Avoidable

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Bid Amount: \$1,844,164.00

Start Date: 1/17/2012

Final Amount: \$2,031,903.29

Completion Date: 1/29/2013

Contractor: MAMCO, INC.

CCO #	CCO Date	CCO Amount	CCO Description	Change Order Category	Avoidability
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Total Change Order Dollars for this Project: \$118,332.70

Total Number of Change Orders on this Project: 4

Percentage of Change Orders on this Project: 6.42%

Avoidable Change Orders = 2 \$49,609.00

Unavoidable Change Orders = 0 \$0.00

Extra/Others Change Orders = 2 \$68,723.70

Contract Change Order Summary

Work Order #: B8-0609 Description: Dillon Road Rehabilitation

Project Manager: CINDI WACHI Design Firm: COUNTY Construction Manager: COUNTY
 Engineer's Estimate: \$768,175.00 Contractor: MATICH CORPORATION
 Bid Amount: \$638,200.00 Start Date: 4/9/2012
 Final Amount: \$674,241.96 Completion Date: 9/11/2012

CCO #	CCO Date	CCO Amount	CCO Description	Change Order Category	Avoidability
1	7/17/2012	\$24,936.00	This contract change order became necessary because the improvement of intersection of Dillon Road and 44th Ave. per plan was modified to provide a dedicated left turn lane and increase the pavement taper on the northbound traveled lane. The modification was in accordance with the request of the cities of Indio and Coachella. The modification of the intersection of Dillon Road and 44th Ave. and alteration of the striping and signage plan for the project resulted in the increase of the traffic striping and signage items. The AC Over Side Drain was deleted because it was not necessary for the roadway drainage	Upgrades / Betterments	Avoidable

Total Change Order Dollars for this Project: \$24,936.00 = 1 \$24,936.00
 Total Number of Change Orders on this Project: 1 = 0 \$0.00
 Percentage of Change Orders on this Project: 3.91% = 0 \$0.00

Contract Change Order Summary

Work Order #: B9-0491

Description: SR-60 @ Valley Way Interchange, B0-0491

Project Manager: JOHN MARCINEK

Design Firm: COUNTY

Construction Manager: COUNTY

Engineer's Estimate: \$6,102,575.00

Bid Amount: \$3,095,174.80

Final Amount: \$3,407,570.51

Start Date: 2/22/2010

Completion Date: 11/27/2012

Contractor: POWELL CONSTRUCTERS

CCO #	CCO Date	CCO Amount	CCO Description	Change Order Category	Avoidability
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1	12/13/2010	\$0.00	This CCO provides for the clarification of the State Standard specification Edition to be used because the Special Provisions specify compliance with Section 39 "Hot Mix Asphalts". The special provisions stipulates that the 1999 standard specifications with 2004 standard plans will be used. However, the 1999 standard specifications do not specify hot mix asphalt. Hot mix asphalt is defined in the section 39 hot mix asphalt amendments of the may 2006 edition of the state of california standard specifications and not in the 1999 standard specifications.	Design Omission	Avoidable
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2	10/12/2010	\$35,534.34	This CCO became necessary for compensating the Contractor for various extra work as follows: The existing property fencing for the Riverside County Sheriff's Forensic Laboratory and Ace Hardware adjacent to the freeway was of chain link and razor wire. It was determined to install razor wire fencing in addition to the chain link. The existing barrier wall / sound wall was 5.1 meters longer than shown on the plans. The 5.1 meters had to be removed to install the new barrier rail/sound wall at the proposed hinge point as shown in the project plans. Removal of existing boulders and rocks protruding above sub-grade elevation on the proposed ramps including; but not limited to; mobilize/demobilize a CAT D9 bulldozer to break and rip the rocks, loading and trucking to haul and dispose the broken rocks. Removal of a section of abandoned steel water line protruding above sub-grade elevation on Mission Blvd.	Changed Field Condition	Unavoidable
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Work Order #: B9-0491

Description: SR-60 @ Valley Way Interchange, B0-0491

Project Manager: JOHN MARCINEK
 Engineer's Estimate: \$6,102,575.00
 Bid Amount: \$3,095,174.80
 Final Amount: \$3,407,570.51

Design Firm: COUNTY
 Construction Manager: COUNTY
 Contractor: POWELL CONSTRUCTERS

Start Date: 2/22/2010
 Completion Date: 11/27/2012

CCO #	CCO Date	CCO Amount	CCO Description	Change Order Category	Avoidability
3	3/31/2010	\$40,779.55	This CCO became necessary for adjusting bid items quantities and compensating the contractor for extra work as follows: The original bid quantity of 68 meters for bid item 90 for 450mm corrugated steel pipe is reduced by 66 meters because only 2 meters was used for drainage system No. 2 in accordance with the project plans. The original bid quantity of 90 meters for bid item no. 91 for 600 corrugated steel pipe is increased by 87 meters was used for drainage system no. 5 and another 21 meters to extend drainage system 5 to daylight the outlet end of the pipe beyond the roadway slope. The original bid quantity of 7 M3 for bid item no. 95 was increased by 9.05 M3 for additional concrete backfill because the proposed profile grade of the 600 mm CSP storm drain did not compliment the finish grade of the proposed roadway. The pipe grade was altered with the concurrence of the Design Engineer to provide clearance from the top of pipe to the final roadway elevation and integral concrete backfill for the storm drain. Rock drilling equipment was necessary to auger through the rock for the CIDH foundation of the overhead sign no. 1 Several locations were explored, rock was encountered. It was decided to install the sign at the original location per plan and the contractor has to be paid extra work for rock drilling. The landscape irrigation controller ICC-A and antenna is shown on the plans to be relocated because of its location being affected by the construction of the freeway ramps. the relocation of this facility is neither included in the contract bid items nor other items of work.	Design Omission	Avoidable
3 S1	3/7/2012	\$18,640.09	This contract change order became necessary to compensate the Contractor for extra work to auger through existing rocks and boulders with rock drilling equipment for the CIDH foundation of the Overhead Sign No. 1. Several sites were explored for an alternate sign location, but rock was encountered at each site. It was decided to install the sign at the original location per plan and the contractor was paid extra work for rock drilling.	Changed Field Condition	Unavoidable

Contract Change Order Summary

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 Bid Amount: \$3,095,174.80
 Final Amount: \$3,407,570.51

Design Firm: COUNTY
 Contractor: POWELL CONSTRUCTERS
 Construction Manager: COUNTY

Start Date: 2/22/2010
 Completion Date: 11/27/2012

CCO #	CCO Date	CCO Amount	CCO Description	Change Order Category	Avoidability
4	12/11/2010	\$33,250.93	This CCO compensates the contractor for relocation of the existing traffic signal controller on Valley Way and Mission Blvd including, but not limited to, concrete foundation for the controller cabinet, installing rigid conduit and rewiring. Other work at force account includes: Install under-sidewalk drain on the north side of Mission Blvd; pothole underground facilities to ascertain the exact location of the man made facilities not shown in the project plans; remove and dispose existing concrete headwall now shown in the project plans located on Mission; locate existing storm drain system and construct concrete drain inlet on Mission Blvd to eliminate water ponding; Readjust proposed sidewalk grade on Valley Way to match existing asphalt pavement; locate and adjust several water valve covers; repair to adjust grade of the newly placed concrete drain inlet on Mission Blvd drainage system no. 11; modify curb and gutter on Mission Blvd; install PVC electrical conduit for Edison service meters on Mission Blvd. at Valley Way; modify and reinstall the reinforcement bars for street lighting on retaining to wall no. 1; stand by time of labor and equipment for potholing to ascertain the exact location of the existing waterline on Mission Blvd.; remove, break haul and dispose rocks and boulders encountered at Mission Blvd.; Re-cut AC pavement and reinstall advance signal loop for northbound Valley Way; remove 78 meters of existing 600 mm RCP storm drain that is in conflict with concrete footing of the proposed retaining wall no. 2.	Changed Field Condition	Unavoidable
5	12/13/2010	\$17,800.00	This CCO compensates the contractor for various extra work as follows: Place and compact backfill material within the gore areas of Lines B & C; change concrete mix design for cross-gutter and spandrels; furnish and install 1 sound wall mounted sign and frame; paint the existing curb red and install "No Parking Anytime" signs on Byrne Rd; sawcut existing curb and gutter for installation of drain outlets and remove/dispose 8 LF of curb and gutter from the on/off ramps for the relocation of bio-swales; remove lean concrete base that was thicker in section than shown on the plans; compact around the water services that were exposed by Jurupa Community Service District located on Mission Blvd.; temporary paint crosswalk and place asphalt ramps for the east leg of Valley Way at Mission Blvd.; encase existing corrugated metal pipe with concrete and reinforcement bars.	Changed Field Condition	Unavoidable

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Construction Manager: COUNTY

Engineer's Estimate: \$6,102,575.00

Bid Amount: \$3,095,174.80

Final Amount: \$3,407,570.51

Start Date: 2/22/2010

Completion Date: 11/27/2012

Contractor: POWELL CONSTRUCTERS

CCO #	CCO Date	CCO Amount	CCO Description	Change Order Category	Avoidability
6	1/17/2011	\$11,500.00	This CCO became necessary for compensating the contractor for various extra work as follow: The existing ramps and curb at two locations on the south side of Mission Blvd. at Valley Way did not meet ADA requirements. The existing ramps and curbs were removed and reconstructed to comply with ADA requirements. The force account estimate includes the following: Construct new ramps and curb complete in place, additional traffic control, trucking and disposal of discarded concrete materials. The sub contractor encountered concrete treated base in the trench excavation to install the 2-inch conduit for line A. Breaker equipment was used to excavate the concrete treated base material. The original bid quantity of 1 each for bid item 40 for remove irrigation controller is decreased by 1 because the irrigation controller was relocated but not removed.	Changed Field Condition	Unavoidable
7	1/17/2011	\$42,471.50	The existing 750mm reinforced concrete pipe for drainage system no. 8 had negative drainage flow and was not functional. Therefore, the existing 750mm pipe was removed and replaced with a combination of 600mm and 750mm reinforced concrete pipes in accordance with the design engineer's recommendation to provide proper drainage flow and adequate cover backfill for the pipes relative to the proposed roadway grades. The original bid quantity of 6M for bid item no. 88 600mm reinforced concrete pipe was increased by 12M. The original bid quantity of 21M for bid item no. 89- 750mm reinforced concrete pipe was increased by 20.5M. The electrical conduit and wiring for the street light at the northwesterly corner of Valley Way and Mission Blvd. was in conflict with the changes for storm drain system no. 8. Due to very limited space in the location of the storm drain, the relocation of the conduit and wiring was necessary in order to install the storm drain at the revised location and construct the GOL storm drain inlet.	Changed Field Condition	Unavoidable

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Bid Amount: \$3,095,174.80

Final Amount: \$3,407,570.51

Start Date: 2/22/2010

Completion Date: 11/27/2012

Contractor: POWELL CONSTRUCTORS

CCO #	CCO Date	CCO Amount	CCO Description	Change Order Category	Avoidability
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8	10/4/2011	\$29,908.93	<p>This contract change order became necessary for compensating the Contractor for various extra work as follows:</p> <ul style="list-style-type: none"> • The existing asphalt pavement on Mission Boulevard at Valley Way was inverted in several locations. These areas were potential hazards due to ponding water and adversely affected the profile of the traveled lanes. To improve the uneven pavement surfacing and mitigate water ponding, the contractor was directed to cold plane beyond the limits shown on the plans and overlay the entire intersection with varying thickness. Additional traffic control was necessary to provide public safety and convenience. • The flow line of the earth channel for Drainage System No. 6 was adjacent to the concrete pavement of on-ramp Line "C" and Caltrans requested the County to line the earth ditch with AC to prevent possible erosion to the PCC pavement. • The 4" PVC pipe underdrains adjoining with Retaining Wall No. 1 were necessary to convey drainage water under the sidewalk and drain to the curb and gutter. This extra work is to prevent dirt erosion to the sidewalk surface which is a potential hazard for pedestrians. • The "No Parking" signs installed on Byrne Road became necessary due to the newly placed traffic striping (installed for the signal improvement) and to avoid any vehicles from parking on the traffic signal loops. • The finish grade alteration of the G-1 inlet located on Mission Boulevard at Valley Way became necessary to match the AC overlay surfacing. • The loops were changed from Type "D" to Type "E" to meet the Traffic Operations Policy Directive dated August 27, 2009 to provide Bicycle and Motorcycle Detection. The two loops on Valley Way at Granite Hill were removed for the Street Improvement work and were not included in the engineer's estimate to be replaced. • The minor retaining wall behind the curb return on the northwest corner of Mission Boulevard at Byrne Road became necessary to prevent erosion from graded slope. The retaining wall will prevent dirt material from encroaching into the sidewalk and causing a potentially hazardous condition for pedestrians. Caltrans requested the wall to be installed as a punch list item. • The traffic signal visors were installed to correct the line of sight for the traveling public. • The existing pre-emption wiring and conduit was not shown on the plans at the intersection of Mission Boulevard at Valley Way was relocated as necessary. • The existing Cable TV pullbox 	Outside Agency Mandated	Unavoidable
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Project Manager: JOHN MARCINEK
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 Final Amount: \$3,407,570.51

Design Firm: COUNTY
 Construction Manager: COUNTY
 Contractor: POWELL CONSTRUCTERS

Start Date: 2/22/2010
 Completion Date: 11/27/2012

CCO #	CCO Date	CCO Amount	CCO Description	Change Order Category	Avoidability
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needed to be raised to match the finish grade of the graded shoulders. • The existing 110v luminaire needed to be removed and replaced with a 240w luminaire to match the newly installed electrical meters at the intersection of Granite Hill/Valley Way. • The hand digging around the signal pole foundation became necessary to avoid damaging the existing buried fiber optic line. The fiber optic line was not identified on the Improvement Plans. The owners of the fiber optic line, Suseys Communications, only allowed hand digging in the close proximity of their line. • The R6-1 signs needed to be removed and replaced with new R6-1 signs because the plans had conflicting signs "called out" on the plans. • The Thermoplastic Pavement Markings and Striping was deleted due to the national shortage of thermoplastic material. Per the directive issued by Caltrans, the contractor was directed to install painted pavement markings and traffic stripe in lieu of the thermoplastic material. • The boring delays were caused by Jurupa Community Services District marking the location of the water line incorrectly and causing the contractor to stop production until the proper location could be determined. • The pedestrian signal head needed to be relocated from pole G to pole H for improved sight distance.

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Design Firm: COUNTY

Construction Manager: COUNTY

Contractor: POWELL CONSTRUCTORS

Start Date: 2/22/2010

Completion Date: 11/27/2012

CCO #	CCO Date	CCO Amount	CCO Description	Change Order Category	Avoidability
9	10/18/2012	\$37,357.82	<p>This contract change order became necessary for compensating the Contractor for various extra work as follows:</p> <ul style="list-style-type: none"> • The drainage structures began to erode during the heavy rains encountered during the week of December 20, 2010. It became necessary to repair and protect the channel flowlines from further erosion. • Relocation of existing chain link fence conflicting with a proposed traffic sign. The fence relocation is required for public safety and was not specified in the contract documents or shown on the approved plans. • The keyway was installed into the sidewalk to provide additional support for the hand railing. The hand railing was bolted to the sidewalk using lag bolts. • The traffic controller was necessary to relocate to comply with ADA for the wheel chair access ramp on the southeast corner of Valley Way at Mission Blvd. The relocation also provided for additional sight distance for the pedestrians entering the crosswalk. • The protection of the drainage inlets was required by the SWPPP and the Regional Water Board. The engineer estimate did not provide adequate quantities for inlet protection during the course of construction. • The removal of traffic stripe was increased on the SR60 eastbound at the temporary drop lane (westerly end of the project limits). The request was made by Caltrans to remove the existing taper and extend the overall taper length to increase visibility and public safety. • The removal of the temporary pavement markers was increased on the SR60 eastbound at the temporary drop lane (westerly end of the project limits). The request was made by Caltrans to remove the existing taper and extend the overall taper length to increase visibility and public safety. • The reconstruction of the existing irrigation, on the back slope of the Department of Justice building at sound wall No. 106, became necessary after the irrigation lines were removed to construct the slope for the sound wall foundation and the installation of the chain link fencing. The approved plans and special provisions do not provide any provisions for the replacement of the irrigation system. • The erosion control (Type D) was placed per plan and field measured. The engineer estimate did not provide for enough quantities for all of the areas shown on the approved plans. • The seal joint was placed at all joints as required and field measured. The engineer estimate did not provide enough quantities for all of the 	Outside Agency Mandated	Unavoidable

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Design Firm: COUNTY

Construction Manager: COUNTY

Engineer's Estimate: \$6,102,575.00

Contractor: POWELL CONSTRUCTERS

Bid Amount: \$3,095,174.80

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Completion Date: 11/27/2012

CCO #	CCO Date	CCO Amount	CCO Description	Change Order Category	Avoidability
10	10/31/2012	(\$7,917.00)	<p>joints to be sealed. • The installation and maintenance of a temporary flashing beacon became necessary to increase visibility and public safety on the SR60 eastbound at the temporary lane drop (westerly end of the project). The flashing beacon was requested by Caltrans.</p> <p>This contract change order became necessary for compensating the Contractor for various extra work as follows:</p> <ul style="list-style-type: none"> • Caltrans required the removal of debris for drainage systems No. 5, 6, 7, and No. 11 and to mitigate erosion from the drainage systems with the installation of rip rap with filter fabric. • Caltrans required repositioning of the "No Parking" signs for visibility at Byrne Road southerly of Mission Blvd. The reinstallation of chain link fencing on the southwest corner of Byrne Road was necessary to install the proposed guide sign per plan. The painted markings on the off ramp (Line B) were faded due to traffic use, requiring reapplication prior to the acceptance of the project. • The access ramps as indicated on the plans do not meet ADA requirements because of the down slope gradient of the existing roadway on Mission Boulevard and Byrne Road. The ramps were redesigned and replaced to meet ADA requirements and as approved by Caltrans. • The contractor encountered unforeseen buried rocks in constructing the CIDH piles for soundwall No. 106. The contractor had to mobilize (rental) rock drilling equipment and in the drilling process, the loose rocks had to be removed and the sidewalls of the hole caved-in, thereby, increasing the size of the piles requiring additional concrete to be placed. 	Outside Agency Mandated	Unavoidable

Total Change Order Dollars for this Project:	\$259,326.16	=	Avoidable Change Orders	=	2	\$40,779.55
Total Number of Change Orders on this Project:	11	=	Unavoidable Change Orders	=	9	\$218,546.61
Percentage of Change Orders on this Project:	8.38%	=	Extra/Others Change Orders	=	0	\$0.00

Contract Change Order Summary

Work Order #: B9-0957

Description: Rancho California Road Roundabout

Project Manager: CINDI WACHI Design Firm: COUNTY Construction Manager: COUNTY
 Engineer's Estimate: \$2,249,962.50 Contractor: MAMCO, INC.

Bid Amount: \$1,527,163.00 Start Date: 2/27/2012
 Final Amount: \$1,758,209.35 Completion Date: 11/6/2012

CCO #	CCO Date	CCO Amount	CCO Description	Change Order Category	Avoidability
1	7/17/2012	\$103,622.00	This contract change order became necessary because Eastern Municipal Water District (EMWD) requested the installation of the 26" HDPE pipe casing for a future sewer crossing at this intersection. The construction of the casing concurrently with this project will prevent future demolition and repair of portions of the roundabout improvements. This will also alleviate public inconvenience and public safety as the installation of the HDPE casing will be incorporated in the roundabout construction phasing. The total cost of this Contract Change Order including the Transportation's Construction Engineering cost is entirely reimbursable by EMWD. The Board of Directors of EMWD has approved and appropriated \$123,622.02 to cover the amount of this Contract Change Order for \$103,622.00 and \$20,000.02 for Construction Engineering including but not limited to; contract administration, field inspection, compaction testing and survey. Attached is EMWD's letter of consent and concurrence.	Outside Agency Mandated	Unavoidable
2	8/16/2012	\$62,771.67	This Contract Change Order became necessary because: Sections of curb and gutter (365 lf) at four locations are to be modified to provide an undemanding curvature outside of the splitter median islands adjacent to the circle of the roundabout. The curvature modification affected the access ramps and portions of the local depressions were also removed to make uniform and continuous the concrete gutter edge line. Portions of the stamped concrete in the splitter islands were removed to accommodate the revisions in the landscaping and 3inch PVC sleeves were installed in the splitter islands for landscape irrigation. As part of the landscape revision, sections of stamped concrete were replaced with integral colored stamped concrete. The decrease in the contract unit prices of the concrete reinforced boxes was to reflect the change in the reinforcing material integrated in the fabrication of the box culverts. The change (as cost savings to the County) did not affect the structural integrity of the box culverts and was approved by the Engineer. The quantity of the several contract bid items was decreased because the project was completed without utilizing the full amount of the items in the Engineer's estimate.	Changed Field Condition	Unavoidable

Contract Change Order Summary

Work Order #: B9-0957

Description: Rancho California Road Roundabout

Project Manager: CINDI WACHI Design Firm: COUNTY Construction Manager: COUNTY
 Engineer's Estimate: \$2,249,962.50 Contractor: MAMCO, INC.
 Bid Amount: \$1,527,163.00 Start Date: 2/27/2012
 Final Amount: \$1,758,209.35 Completion Date: 11/6/2012

CCO #	CCO Date	CCO Amount	CCO Description	Change Order Category	Avoidability
Total Change Order Dollars for this Project: \$166,393.67					
Total Number of Change Orders on this Project: 2					
Percentage of Change Orders on this Project: 10.90%					
				Avoidable Change Orders =	0
				Unavoidable Change Orders =	2
				Extra/Others Change Orders =	0
					\$0.00
					\$166,393.67
					\$0.00

Contract Change Order Summary

Work Order #: B9-0996 2 Description: T/S Battery Backup System, Phase 2

Project Manager: DOWLING TSAI Design Firm: COUNTY Construction Manager: COUNTY
 Contractor: REPUBLIC ITS

Engineer's Estimate: \$235,083.50 Start Date: 6/12/2012
 Bid Amount: \$249,954.00 Completion Date: 1/15/2013
 Final Amount: \$245,185.00

CCO #	CCO Date	CCO Amount	CCO Description	Change Order Category	Avoidability
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Total Change Order Dollars for this Project:					
				Avoidable Change Orders	= 0 \$0.00
Total Number of Change Orders on this Project:				Unavoidable Change Orders	= 0 \$0.00
Percentage of Change Orders on this Project:				Extra/Others Change Orders	= 0 \$0.00

Contract Change Order Summary

Work Order #: B9-0998

Description: Old Elsinore Rd & Clark St & Rider Street T/S

Project Manager: DOWLING TSAI

Design Firm: COUNTY

Construction Manager: COUNTY

Engineer's Estimate: \$395,760.00

Bid Amount: \$388,000.00

Final Amount: \$427,336.37

Start Date: 8/30/2011

Completion Date: 10/2/2012

Contractor: COMPETITIVE EDGE ELECTRIC

CCO #	CCO Date	CCO Amount	CCO Description	Change Order Category	Avoidability
1	1/18/2012	\$15,252.00	This contract change order became necessary because the southeasterly access ramp required modification to provide an equestrian crossing. The design change required the modification to an existing drainage channel, widening of two access ramps, modification of two signal poles, and addition of two equestrian push buttons, including associated electrical conduit and wiring. The inclusion of the equestrian crossing through the south leg of the intersection was requested and approved by the County's Traffic Division.	Upgrades / Betterments	Extra/Others
2	5/7/2012	\$23,459.28	The traffic striping was increased because the quantity provided in the bid item was not sufficient to complete the striping as indicated in the plans. The striping was installed in accordance with the approved project plans. Asphalt concrete was used for pre-leveling and overlay at various locations within the intersection in order to provide a recommended transverse crossfall. The gradient of existing pavement relative to the proposed curb and gutter was in excess of 5% to 10%. In order to provide a recommended varying crossfall grade of 2% to 5%, it was determined by staff that the overlay of the existing pavement section would be less expensive than complete pavement removal. The overlay option also minimized the inconvenience to pedestrian and vehicle school traffic.	Design Omission	Avoidable
3	6/5/2012	\$8,700.00	This contract change order became necessary because: • The existing AC pavement required additional grinding at various locations within the project limits prior to the placement of the final A/C pavement. • 25 lf of an existing driveway CSP culvert at 20051 Old Elsinore Rd. was required to be removed and replaced to provide positive drainage and match the proposed dirt channel grades. • The existing CSP culvert crossing at Station 165+50 affected by the roadway widening had to be extended to provide for the construction of the proposed dirt pedestrian walkway (as indicated in the approved plans) and to align drainage with an existing dirt channel. • The existing chain link swing gate at Station 166+25 along Old Elsinore Rd. required relocation since the existing location of the gate and the driveway in relation to proposed improvements created unsafe property access. At the new gate location, the dirt driveway had to be graded to tie-in with the widened roadway.	Design Omission	Avoidable

Contract Change Order Summary

Work Order #: B9-0998

Description: Old Elsinore Rd & Clark St & Rider Street T/S

Project Manager: DOWLING TSAI

Design Firm: COUNTY

Construction Manager: COUNTY

Engineer's Estimate: \$395,760.00

Bid Amount: \$388,000.00

Final Amount: \$427,336.37

Start Date: 8/30/2011

Completion Date: 10/2/2012

Contractor: COMPETITIVE EDGE ELECTRIC

CCO #	CCO Date	CCO Amount	CCO Description	Change Order Category	Avoidability
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Total Change Order Dollars for this Project:	\$47,411.28	Avoidable Change Orders	=	2	\$32,159.28
Total Number of Change Orders on this Project:	3	Unavoidable Change Orders	=	0	\$0.00
Percentage of Change Orders on this Project:	12.22%	Extra/Others Change Orders	=	1	\$15,252.00

Contract Change Order Summary

Work Order #: C0-0538

Description: Washington St. and 41st T/S

Project Manager: DOWLING TSAI

Design Firm: COUNTY

Construction Manager: COUNTY

Engineer's Estimate: \$265,860.00

Bid Amount: \$235,832.00

Final Amount: \$284,806.20

Start Date: 1/18/2011

Completion Date: 1/29/2013

Contractor: STIENY & COMPANY

CCO #	CCO Date	CCO Amount	CCO Description	Change Order Category	Avoidability
1	11/27/2012	\$50,000.00	This contract change order became necessary because exact locations of various utilities had to be determined prior to the boring operation to install the interconnect conduit for approximately one mile on Washington St. from Hovley Lane to Harris Lane. The contractor potholed all the utilities whether shown or not shown in the plans. The presence of multiple utilities not shown in the plans prevented the contractor to proceed with the installation of the interconnect system without incurring extra cost and additional time. The City of Palm Desert encroachment permit required the removal of all USA markings for the various utilities at multiple locations. The contract required the contractor to obtain the encroachment permit. However, the removal of the utility markings was an additional cost to the contractor's contracted work. The payment to remove the utility markings required by the encroachment permit included the necessary temporary traffic control for lane closures to pressure wash the markings on the curb and gutter and AC pavement.	Changed Field Condition	Unavoidable

Total Change Order Dollars for this Project: \$50,000.00

Total Number of Change Orders on this Project: 1

Percentage of Change Orders on this Project: 21.20%

Avoidable Change Orders = 0 \$0.00
 Unavoidable Change Orders = 1 \$50,000.00
 Extra/Others Change Orders = 0 \$0.00

Contract Change Order Summary

Work Order #: C0-0543

Description: T/S LED Retrofit ISNS & Yellow

Project Manager: DOWLING TSAI
 Engineer's Estimate: \$632,975.00
 Bid Amount: \$522,160.00
 Final Amount: \$504,257.79

Design Firm: COUNTY
 Construction Manager: COUNTY
 Contractor: REPUBLIC ITS

Start Date: 5/31/2011
 Completion Date: 10/16/2012

CCO #	CCO Date	CCO Amount	CCO Description	Change Order Category	Avoidability
1	10/31/2011	\$1,778.79	This contract change order became necessary because the installed drivers for the ISNS as specified in the plans and Special Provisions for the existing 9 traffic signals at various locations caused false calls to the detection cards in the controllers. The installation of the High Frequency Drivers eliminated the false calls. The change to the High Frequency Drivers was concurred by the Project Manager and Traffic Signal Supervisor.	Changed Field Condition	Unavoidable

Total Change Order Dollars for this Project: \$1,778.79

Total Number of Change Orders on this Project: 1

Percentage of Change Orders on this Project: 0.34%

Avoidable Change Orders = 0 \$0.00

Unavoidable Change Orders = 1 \$1,778.79

Extra/Others Change Orders = 0 \$0.00

Contract Change Order Summary

Work Order #: CI-0433

Description: Camino Campanero & 66th Ave SW, CI-0434

Project Manager: MIKE MUETING

Design Firm: COUNTY

Construction Manager: COUNTY

Engineer's Estimate: \$540,000.00

Bid Amount: \$478,435.00

Final Amount: \$464,303.52

Start Date: 12/12/2011

Completion Date: 7/3/2012

Contractor: DESERT CONCEPTS, INC.

CCO #	CCO Date	CCO Amount	CCO Description	Change Order Category	Avoidability
1	5/7/2012	\$3,682.25	This contract change order became necessary because the removal of the existing metal beam guardrail on 66th Ave. is indicated in the project plans; however, there is no payment provision in the contract or the special provisions. The increases in quantity for Bid Item No.10 - Plane Asphalt Concrete Pavement and Bid Item No. 21 - Paint Traffic Stripe (2-coats) became necessary because the bid quantities did not provide a sufficient amount to facilitate cold planning of the existing pavement and the installation of traffic striping per plan. An additional under sidewalk drain was required at 15020 Via Montana to provide positive drainage for an existing residence, which resulted in an increase in Bid Item No.23 - Under sidewalk Drain. Bid Item No. 15 - Retaining Wall (Masonry Wall) was deleted because it was not necessary to complete the project. Bid Item No. 22 - Pavement Markers (Reflective) was reduced because the quantity provided by the bid item is more than sufficient to cover the striping as indicated in the approved plans.	Design Omission	Avoidable

Total Change Order Dollars for this Project:	\$3,682.25	=	1	\$3,682.25
Total Number of Change Orders on this Project:	1	=	0	\$0.00
Percentage of Change Orders on this Project:	0.77%	=	0	\$0.00

Contract Change Order Summary

Work Order #: CI-0503 Description: Camino Real Resurfacing

Project Manager: MIKE MUETTING Design Firm: COUNTY
 Contractor: ALL AMERICAN ASPHALT
 Engineer's Estimate: \$1,700,000.00 Start Date: 9/11/2012
 Bid Amount: \$1,570,000.00 Completion Date: 1/15/2013
 Final Amount: \$1,573,516.31

CCO #	CCO Date	CCO Amount	CCO Description	Change Order Category	Avoidability
				Avoidable Change Orders	= 0 \$0.00
				Unavoidable Change Orders	= 0 \$0.00
				Extra/Others Change Orders	= 0 \$0.00

Total Change Order Dollars for this Project:
 Total Number of Change Orders on this Project:
 Percentage of Change Orders on this Project:

Contract Change Order Summary

Work Order #: C1-0534 Description: Skyview Road Reconstruction

Project Manager: MIKE MUETTING Design Firm: COUNTY Construction Manager: COUNTY
 Engineer's Estimate: \$270,000.00 Start Date: 9/10/2012 Contractor: HARDY & HARPER, INC.
 Bid Amount: \$234,000.00 Completion Date: 2/5/2013
 Final Amount: \$249,999.73

CCO #	CCO Date	CCO Amount	CCO Description	Change Order Category	Avoidability
Total Change Order Dollars for this Project: = 0 \$0.00 Total Number of Change Orders on this Project: = 0 \$0.00 Percentage of Change Orders on this Project: = 0 \$0.00					

Contract Change Order Summary

Work Order #: C1-0624

Description: Ramona Expressway & Lakeview Ave T/S

Project Manager: DOWLING TSAI

Design Firm: COUNTY

Construction Manager: COUNTY

Engineer's Estimate: \$233,945.00

Contractor: PTM GENERAL ENGINEERING

Bid Amount: \$209,902.00

Start Date: 4/9/2012

Final Amount: \$207,254.60

Completion Date: 10/16/2012

CCO #	CCO Date	CCO Amount	CCO Description	Change Order Category	Avoidability
1	8/16/2012	\$2,000.00	This contract change order became necessary because the contract items did not include the import material to construct the embankment of the proposed access ramps and to backfill the shoulders for the traffic signal at the intersection of Ramona Expressway and Lakeview Avenue.	Design Omission	Avoidable

Total Change Order Dollars for this Project: \$2,000.00

Avoidable Change Orders = 1 \$2,000.00

Total Number of Change Orders on this Project: 1

Unavoidable Change Orders = 0 \$0.00

Percentage of Change Orders on this Project: 0.95%

Extra/Others Change Orders = 0 \$0.00

Contract Change Order Summary

Work Order #: C1-0646 Description: Mecca Street Phase 3

Project Manager: CATHY WAMPLER **Design Firm:** COUNTY
Engineer's Estimate: \$1,672,600.00
Bid Amount: \$1,448,525.00 **Start Date:** 9/23/2011
Final Amount: \$1,510,687.76 **Completion Date:** 8/28/2012
Construction Manager: COUNTY
Contractor: HAZARD CONSTRUCTION

CCO #	CCO Date	CCO Amount	CCO Description	Change Order Category	Avoidability
1	5/7/2012	\$33,837.34	This Contract Change Order became necessary because the proposed grades at the existing Boys and Girls Club driveways, including the parkways behind sidewalk, did not match the approved Street Improvements Plan grades. The existing driveways required removal from curb face to approximately 50 ft onto private property for proper access and drainage. The existing grades differed from the street improvement plan grades by approximately 1.25 to 2.25 feet in vertical elevation. In addition, the parkway required additional backfill material behind sidewalk and was graded to a 4:1 slope to County right of way. The additional work was performed at the request of EDA (Economic Development Agency)	Design Omission	Avoidable

Total Change Order Dollars for this Project: \$33,837.34 **Avoidable Change Orders** = 1 **\$33,837.34**
Total Number of Change Orders on this Project: 1 **Unavoidable Change Orders** = 0 **\$0.00**
Percentage of Change Orders on this Project: 2.34% **Extra/Others Change Orders** = 0 **\$0.00**

Contract Change Order Summary

Work Order #: C2-0006

Description: Slurry Seal FY 11/12, Dist 1 & 3, C2-0008

Project Manager: MIKE MUETING

Design Firm: COUNTY

Construction Manager: COUNTY

Engineer's Estimate: \$2,040,000.00

Bid Amount: \$2,038,506.50

Final Amount: \$2,166,097.72

Start Date: 10/10/2012

Completion Date: 4/30/2013

Contractor: AMERICAN ASPHALT SOUTH, INC.

CCO #	CCO Date	CCO Amount	CCO Description	Change Order Category	Avoidability
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Total Change Order Dollars for this Project:

Total Number of Change Orders on this Project: 0

Percentage of Change Orders on this Project:

Avoidable Change Orders	=	0	\$0.00
Unavoidable Change Orders	=	0	\$0.00
Extra/Others Change Orders	=	0	\$0.00

Contract Change Order Summary

Work Order #: C2-0009

Description: Slurry Seal FY 11/12, Dist 4 & 5, C2-0010

Project Manager: MIKE MUETTING
 Engineer's Estimate: \$1,271,800.00
 Bid Amount: \$1,509,635.00
 Final Amount: \$1,423,280.77

Design Firm: COUNTY

Construction Manager: COUNTY

Contractor: AMERICAN ASPHALT SOUTH

Start Date: 4/9/2012

Completion Date: 9/11/2012

CCO #	CCO Date	CCO Amount	CCO Description	Change Order Category	Avoidability
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Total Change Order Dollars for this Project:

Total Number of Change Orders on this Project: 0

Percentage of Change Orders on this Project:

Avoidable Change Orders	=	0	\$0.00
Unavoidable Change Orders	=	0	\$0.00
Extra/Others Change Orders	=	0	\$0.00

Contract Change Order Summary

Work Order #: C2-0013 Description: Brown Street Improvements

Project Manager:	SCOTT STALEY	Design Firm:	COUNTY	Construction Manager:	COUNTY
Engineer's Estimate:	\$237,080.00	Start Date:	9/19/2012	Contractor:	PANORAMA GENERAL ENGINEERING
Bid Amount:	\$177,466.00	Completion Date:	1/15/2013		
Final Amount:	\$171,414.21				
CCO #	CCO Date	CCO Amount	CCO Description	Change Order Category	Avoidability

Total Change Order Dollars for this Project:

Total Number of Change Orders on this Project: 0

Percentage of Change Orders on this Project:

Avoidable Change Orders	=	0	\$0.00
Unavoidable Change Orders	=	0	\$0.00
Extra/Others Change Orders	=	0	\$0.00

Contract Change Order Summary

Work Order #: C2-0135 Description: Mission Blvd. Rehabilitation

Project Manager: MIKE MUEJTING	Design Firm: COUNTY	Construction Manager: COUNTY			
Engineer's Estimate: \$250,000.00		Contractor: ALL AMERICAN ASPHALT			
Bid Amount: \$226,069.00	Start Date: 9/10/2012				
Final Amount: \$193,456.60	Completion Date: 2/26/2013				
CCO #	CCO Date	CCO Amount	CCO Description	Change Order Category	Avoidability

Total Change Order Dollars for this Project:

Total Number of Change Orders on this Project: 0

Percentage of Change Orders on this Project:

Avoidable Change Orders	=	0	\$0.00
Unavoidable Change Orders	=	0	\$0.00
Extra/Others Change Orders	=	0	\$0.00

Contract Change Order Summary

Work Order #: C2-0160

Description: Cahuilla Hills Resurfacing

Project Manager: CINDI WACHI

Design Firm: COUNTY

Construction Manager: COUNTY

Engineer's Estimate: \$446,880.00

Bid Amount: \$370,074.25

Start Date: 10/29/2012

Contractor: PANORAMA GENERAL ENGINEERING

Final Amount: \$415,490.05

Completion Date: 3/12/2013

CCO #	CCO Date	CCO Amount	CCO Description	Change Order Category	Avoidability
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Total Change Order Dollars for this Project:

Total Number of Change Orders on this Project: 0

Percentage of Change Orders on this Project:

Avoidable Change Orders	=	0	\$0.00
Unavoidable Change Orders	=	0	\$0.00
Extra/Others Change Orders	=	0	\$0.00

Contract Change Order Summary

Work Order #: XX-1005

Description: Mecca Streets Phase 2

Project Manager: CATHY WAMPLER **Design Firm:** COUNTY
Engineer's Estimate: \$5,700,325.00
Bid Amount: \$4,067,000.00 **Start Date:** 1/24/2011
Final Amount: \$4,006,635.54 **Completion Date:** 8/28/2012
Construction Manager: COUNTY
Contractor: HAZARD CONSTRUCTION

CCO #	CCO Date	CCO Amount	CCO Description	Change Order Category	Avoidability
1	2/27/2012	\$34,699.98	As specified in the Special Provisions; the adjustment in compensation due to price index fluctuations of paving asphalt shall apply. The California Statewide Paving Asphalt Price Index was at a lower index at the time of bid (May 2010) vs. the months and year when the asphalt was placed (June, August, September and October, 2011) which resulted in increased compensation to the Contractor.	Anticipated Force Account	Unavoidable

Total Change Order Dollars for this Project: \$34,699.98

Total Number of Change Orders on this Project: 1

Percentage of Change Orders on this Project: 0.85%

Avoidable Change Orders = 0 \$0.00
Unavoidable Change Orders = 1 \$34,699.98
Extra/Others Change Orders = 0 \$0.00

Contract Change Order Summary

For the Study Period of: July 1, 2012 thru June 30, 2013

Total Contract Bid Amount for All Projects	=	\$20,830,260.55	
Total Change Order Dollars for All Projects	=	\$742,398.17	3.56%
<i>Avoidable Change Orders for these Projects</i>	=	\$187,003.42	0.90%
<i>Unavoidable Change Orders for these Projects</i>	=	\$471,419.05	2.26%
<i>Extra/Others Change Orders for these Projects</i>	=	\$83,975.70	0.40%
Total Number of Change Orders on All Projects	=	27	
<i>Number of Avoidable Change Orders</i>	=	10	37.04%
<i>Number of Unavoidable Change Orders</i>	=	14	51.85%
<i>Number of Extra/Others Change Orders</i>	=	3	11.11%
Total Final Contract Amount for All Projects	=	\$21,715,647.28	3.42%
Number of Contracts in the Study Period	=	19	
Number of Contracts with No Change Orders	=	8	42.11%
Number of Contracts with Change Orders > 10%	=	3	15.79%