

**STATE OF CALIFORNIA-DEPARTMENT OF TRANSPORTATION
TRACT CHANGE ORDER MEMORANDUM**

DATE
03/22/10

4903 REV 6/2006 CT# 7541-3544-0

TO JOHN RODRIGUES, CHIEF NORTH REGION CONSTRUCTION			FILE		
FROM RON TOLLISON, RESIDENT ENGINEER			E.A.: 03-3E9604 CO-RTE-KP: Sut-99-40.3 PM FED-NO.: No Fed-Aid		
CCO NO. 06	SUPPLEMENT NO. 0	CATEGORY CODE CBPC	CONTINGENCY BALANCE (including this change) \$ 76,569.40		
CCO AMOUNT \$ 5,084.00		<input checked="" type="checkbox"/> INCREASE <input type="checkbox"/> DECREASE	HEADQUARTERS APPROVAL REQUIRED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
SUPPLEMENTAL FUNDS PROVIDED \$ 0.00		IS THIS REQUEST IN ACCORDANCE WITH ENVIRONMENTAL DOCUMENTS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
Original Contract Working Days: 45 DAY(S)	Time Adjustments this Change: 0 DAY(S)	Previously-Approved CCO Time Adjustments: 0 DAY(S)	Percentage Time Adjusted to Date (including this change) 0 %	Total Number of Unreconciled Deferred-Time CCO's (including This change) 0	

This Change Order Provides For: Compensation to the Contractor for changes to the electrical system.

REASON FOR CHANGE: This change addresses several concerns that were identified with the electrical system:

- A) Traffic Detection Loops were changed per CPD 09-12, "Implementation of Traffic Operations Policy Directive 09-06" to incorporate bicycle and motorcycle detection loops.
- B) The advance detection loops were changed to be in compliance with the current standards.
- C) A new signal-interconnect between this signal, and the proposed signal at Elm Street and SR 99 was added.
- D) Provides for re-sizing of the underground conduits for "A", "B" and "C" above.
- E) Clarifies the installation of electrical facilities at the northeast corner of intersection.

MOD OF PAYMENT: Adjustment of Compensation at Agreed Lump Sum..... \$5,084.00

TIME ADJUSTMENT: This change is not anticipated to affect the contract time; therefore, no increase in working days is anticipated

CONCURRENCES: Steven Wright (Project Engineer), Jaskaran Bopari (Electrical Designer), Ross Foon (Project Manager), Fernando Rivera (Area Construction Engineer), Ron Tollison (Resident Engineer).

CONCURRED BY:		ESTIMATE OF COST		
CONSTRUCTION ENGINEER/BRIDGE ENGINEER: Fernando Rivera <i>F.R.</i>	DATE: 03/22/10	ITEMS	THIS REQUEST	TOTAL TO DATE
PROJECT ENGINEER: Steven Wright	DATE: 01/15/10	FORCE ACCOUNT	\$ 0.00	\$ 0.00
PROJECT MANAGER: Ross Foon	DATE: 01/15/10	ADJUSTMENT	\$ 5,084.00	\$ 5,084.00
FHWA REPRESENTATIVE.:	DATE:	TOTAL	\$ 5,084.00	\$ 5,084.00
ENVIRONMENTAL:	DATE:	FEDERAL PARTICIPATION		
		<input type="checkbox"/> PARTICIPATING <input type="checkbox"/> PARTICIPATING IN PART <input checked="" type="checkbox"/> NONE		
		<input type="checkbox"/> NON-PARTICIPATING (maintenance) <input type="checkbox"/> NON-PARTICIPATING		
OTHER (Specify) Electrical Designer Jaskaran Bopari	DATE: 01/15/10	FEDERAL SEGREGATION (If more than one funding source or P.I.P type)		
	DATE:	<input type="checkbox"/> CCO FUNDED PER CONTRACT <input type="checkbox"/> CCO FUNDED AS FOLLOWS		
		FEDERAL FUNDING SOURCE PERCENT		
HQ OR DISTRICT PRIOR APPROVAL BY:	DATE:			
RESIDENT ENGINEER SIGNATURE: RON TOLLISON	DATE: 03/22/10 <i>R.T.</i>			

ADA NOTICE

For individuals with sensory disabilities, this document is available in alternative formats. For information call (916) 654-6410 or TDD (916) 654-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
CONTRACT CHANGE ORDER

Change Requested by: Engineer Contractor

CCO No. 06	Suppl. No. 0	Contract No. 03-3E9604	Road Sut-99-40.3 PM	Federal Number(s) No Fed-Aid
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To SIERRA NEVADA CONSTRUCTION Contractor

You are directed to make the following changes from the plans and specifications or do the following described work not included in the plans and specifications for this contract. **NOTE: This change order is not effective until approved by the Engineer.**

Description of work to be done, estimate of quantities and prices to be paid. (Segregate between additional work at contract price, agreed price and force account.) Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time. The last percentage shown is the net accumulated increase or decrease from the original quantity in the Engineer's Estimate

ADJUSTMENT OF COMPENSATION AT AGREED LUMP SUM:

- 1) Replace As-Planned Plan Sheets No. 10 (E-3) and No. 11 (E-4), with sheets 2 through 4 of this contract change order.
- 2) Perform the Electrical Work as indicated on sheets 2 through 4 of this contract change order.

Estimated Adjustment of Compensation at Agreed Lump Sum..... + \$5,084.00

For this work the contractor shall receive and accept the agreed lump sum of ~~\$~~\$5,084.00. This sum constitutes full and complete compensation for providing all labor, material, equipment, tools and incidentals, including all markups by reason of this change.

This work is not expected to affect the critical path schedule; therefore, no increase in working days is anticipated.

Estimated Cost: Increase \$5,084.00

By reason of this order the time of completion will be adjusted as follows: None

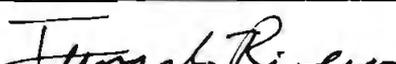
Submitted by

Signature 	(Print name & title) Ron Tollison, Resident Engineer	Date 3-10-10
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Approval Recommended by

Signature	(Print name & title)	Date
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Engineer Approval by

Signature 	(Print name & title) Fernando Rivera, A.C.E.	Date 3/22/2010
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We the undersigned contractor, have given careful consideration to the change proposed and agree, if this proposal is approved, that we will provide all equipment, furnish the materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above. **NOTE: If you, the contractor, do not sign acceptance of this order, your attention is directed to the requirements of the specification as to proceeding with the ordered work and filing a written protest within the time therein specified.**

Contractor Acceptance by

Signature 	(Print name & title) RONALD A. SMITH PROJ. MANAGER	Date 3/19/10
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 OFFICE OF ELECTRICAL DESIGN
 SACRAMENTO

FUNCTIONAL SUPERVISOR

DESIGNED BY

CHECKED BY

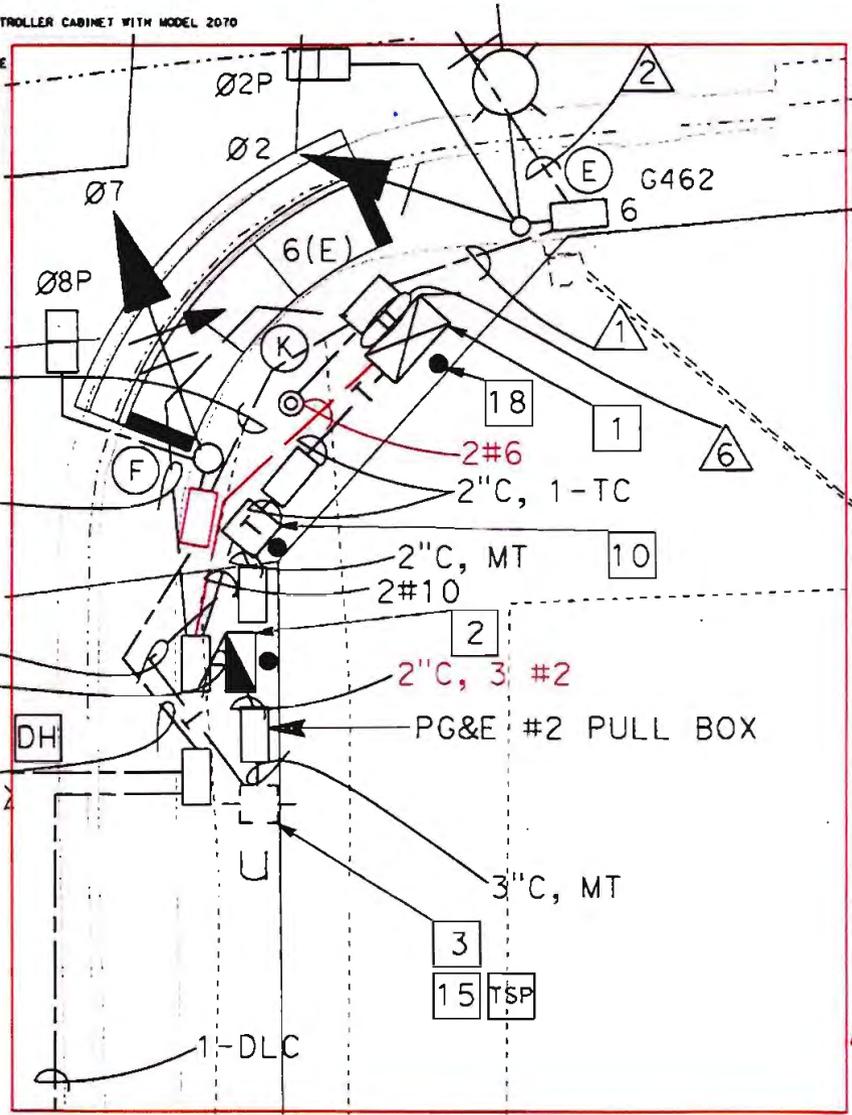
REVISOR: J. BOPARAI, M. CHOHAN, R. J. HANCOCK

DATE REVISED: 01-11-10, 01-13-10, 02-18-10

CC0004, CC0006, CC0008

PROJECT NOTES: (THIS SHEET ONLY)

- 1 INSTALL STATE-FURNISHED MODEL 332 CONTROLLER CABINET WITH MODEL 2070 CONTROLLER ASSEMBLY WITH BBS.
- 2 TYPE III-AP SERVICE EQUIPMENT ENCLOSURE I.D. No. 03180990040250.
- 3 INSTALL PG&E SERVICE ON Existing PG&E Service Pole.
- 4 INSTALL TYPE B TELEPHONE DECARBINATION CABINET, TC No. 515.
- 5 INSTALL TYPE H SERVICE FOR TELEPHONE SERVICE.
- 6 INSTALL 3 GUARD POSTS INSIDE CALTRANS R/W AS DIRECTED BY THE ENGINEER.



DIST	COUNTY	ROUTE	POST MILEY TOTAL PROJECT	DATE	TOTAL SHEETS
03	Sut	99	40.3		

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA ON ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRICAL WORK UNLESS IT IS SHOWN OTHERWISE ON ANY PLAN SHEET.

3\"/>

2\"/>

2\"/>

2\"/>

5-DLC

3
15 TSP

Jaskaran Singh Boparai
 REGISTERED ELECTRICAL ENGINEER



CCO #06
 3 of 4

MODIFY SIGNAL AND LIGHTING
 ROUTE 99 AND PENNINGTON ROAD
 NO SCALE

E-3A

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE
 15 IN INCHES

USERNAME => j7970
 BIN FILE => 33x88a_cad32applet0r100-18-10.dwg

CU 03391

EA 3E9601

DATE PLOTTED 02-18-10 10:48:09 AM
 THE PLOTTED 02-18-10

Sheet	03	County	Sut	Route	99	Post Miles	40.3	Sheet	11	Total	95
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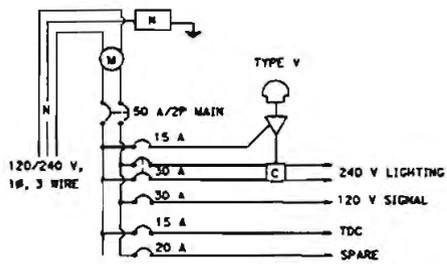
Jaskaran Singh Boparan
 REGISTERED ELECTRICAL ENGINEER
 No. 41905
 Exp. 02/21/11
 STATE OF CALIFORNIA
 3-30-09
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICIALS OR AGENCIES SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRICIAN COPIES OF THIS PLAN SHEET.

POLE AND EQUIPMENT SCHEDULE

No.	STANDARD			VEH SIG MTC	PED SIGNAL	PPB	HPS LUMINAIRE	SPECIAL REQUIREMENTS
	TYPE	SMA	LMA					
A	24A-4-100	35'	15'	1 6 MAT MAS	SV-1-T	SP-1-T	310 W	
B	15TS		15'	3	SV-1-T	SP-1-T	200 W	NS
C	1B-4-100	30'		2 6 MAT MAS	SV-1-T	SP-1-T		
D	1-B			5 6	TY-2-T	SP-1-T		
E	29A-5-100	50'	15'	2 5 MAT MAS	SV-1-T	SP-1-T	310 W	INSTALL RELOCATED EVD
F	1-B			7	TY-1-T	SP-1-T		
G	19A-4-100	30'	15'	4 7 MAT MAS	SV-1-T	SP-1-T	310 W	INSTALL RELOCATED EVD
H	1-B			1,2	TY-2-T	SP-1-T		
I	PPBP						4 6	→
J	PPBP						6 8	→
K	PPBP						8 2	→
L	PPBP						2 4	→

CONDUCTOR AND CONDUIT SCHEDULE

CABLE TYPE	S t d	PHASE	PHASE								
			1	2	3	4	5	6	7		
VEH-PED 12CSC	A	1,6,6P	1	1	1	1	1	1	1	1	
	B	3,4P	1	1	1	1	1	1	1	1	
	C	3,8,8P	1	1	1	1	1	1	1	1	
	D	5,6,6P	1	1	1	1	1	1	1	1	
	E	2,5,2P	1	1	1	1	1	1	1	1	
	F	7,8P	1	1	1	1	1	1	1	1	
	G	4,7,4P	1	1	1	1	1	1	1	1	
PPB 3CSC	H	1,2,2P	1	1	1	1	1	1	1	1	
	I	4,6	X	X	X	X	X	X	X	X	
	J	6,8	X	X	X	X	X	X	X	X	
	K	2,8	X	X	X	X	X	X	X	X	
	L	2,4	X	X	X	X	X	X	X	X	
	TOTAL CABLES 12/3 CONDUCTORS			3	3	3	3	3	3	3	3
	CONTROLLER-POWER										
#8	LIGHTING		2	2	2	2	2	2	2	2	
#10	R R PRE-EMPTION		2	2	2				2		
TYPE B DLC	#1		X	2	X	2			X	2	
	#2		X	4	X	4	X	4	X	4	
	#3		X	3	X	3	X	3	X	3	
	#4		X	2	X	2	X	2	X	2	
	#5		X	4	X	4	X	4	X	4	
	#6		X	2	X	2	X	2	X	2	
	#7		X	2	X	2	X	2	X	2	
	#8		X	4	X	4	X	4	X	4	
COUNT LOOP			X	4	X	4	X	4	X	4	
TOTAL DLC'S PER RUN			X	21	X	21	X	21	X	21	
EVC			X	2	1	1	1	1	2	1	
CONDUIT SIZE			2-3"	2-3"	2-3"	2-3"	2-3"	2-3"	2-4"	2-3"	
#8 BOND			2	2	2	2	2	2	2	1	
SIC			1	1	1	1	1	1	1	1	



LEGEND FOR SCHEMATIC DIAGRAM:

- (M) METER SOCKET
- (C) CONTACTOR
- ▽ AUTO TEST SWITCH
- ☉ PHOTOELECTRIC UNIT

120/240 V SERVICE SCHEMATIC DIAGRAM
SERVICE No. 03180990040250



Jaskaran Singh Boparan
REGISTERED ELECTRICAL ENGINEER
DATE 02-18-10

CCO *06
4 of 4

POLE AND EQUIPMENT SCHEDULE
MODIFY SIGNAL AND LIGHTING
ROUTE 99 AND PENNINGTON ROAD
NO SCALE

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 OFFICE OF ELECTRICAL DESIGN
 SACRAMENTO
 FUNCTIONAL SUPERVISOR
 MELSON LEE
 CALCULATED-DESIGNED BY
 JASKARAN SINGH BOPARAN
 CHECKED BY
 CHANKALP SINGH DHARTI
 REVISIONS
 REVISION NO. 1
 REVISION BY
 J. BOPARAN
 DATE REVISED
 01-11-10
 02-18-10
 CCO#06

DATE PLOTTED 02-18-10
 PLOTTED BY 03-09-09 THE PARTNER AT 11:21