

INFORMATION HANDOUT

**For Contract No. 07-3W1204
At 07-LA-1-PM 35.2/59.9**

**Identified by
Project ID 0715000125**

As-Builts

Fiber Optic System As-Built Drawings

CCTV, Loop Detector and Communication System Routing

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1, 105	Var	227	308

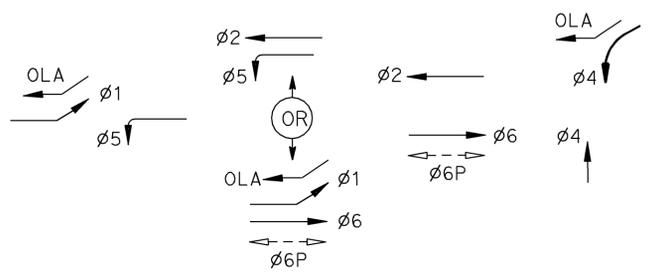
08/06
 REGISTERED ELECTRICAL ENGINEER
 9-25-06
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.
 To get to the Caltrans web site, go to: <http://www.dot.ca.gov>
 CH2M HILL
 3 HUTTON CENTRE DRIVE, SUITE 200
 SANTA ANA, CA 92707



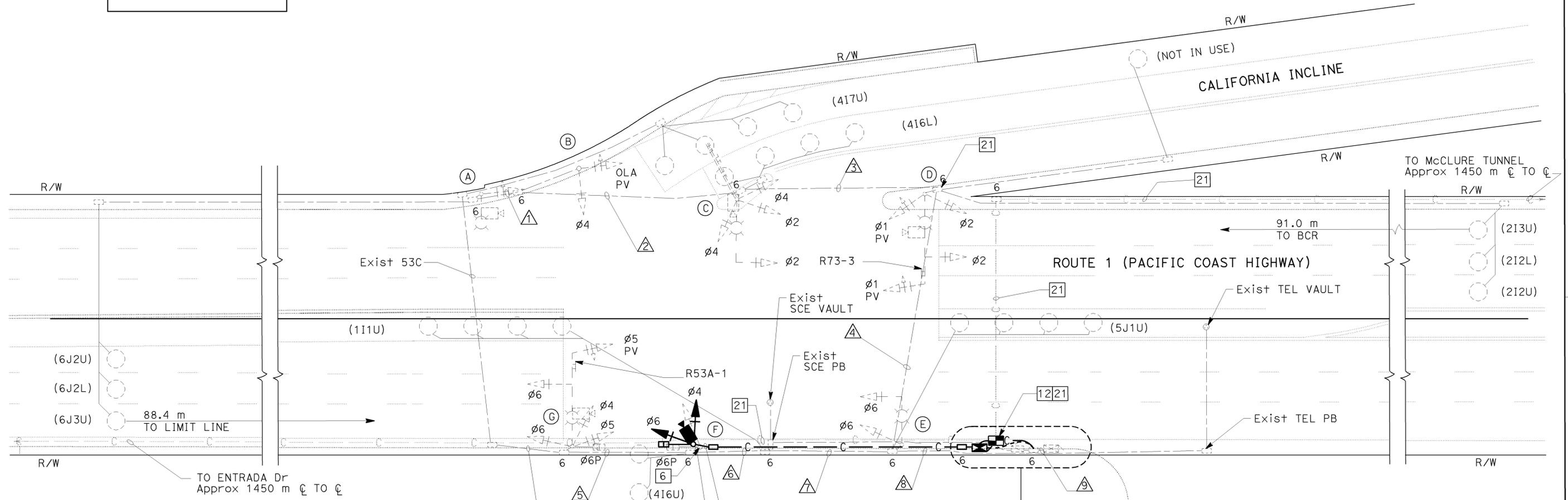
NOTES:

- FOR POLE, CONDUIT AND CONDUCTOR SCHEDULES SEE SHEET E-204.
- SEE SHEET E-245 FOR INSTALLATION OF CCTV CAMERA AND SIGNAL EQUIPMENT ON STATE-FURNISHED CCTV 45 POLE.

EXISTING SIGNAL PHASE DIAGRAM

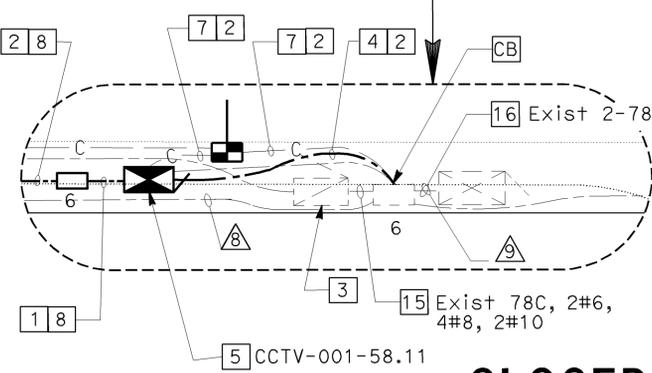


AS-BUILT
 Contract No. 07- **257304**
 Resident Engineer: **AMY MAO**
 Completion Date: **12/12/07**



PROJECT NOTES: (THIS SHEET)

- | | |
|--|---|
| <ol style="list-style-type: none"> INSTALL 2-78C. INSTALL 53C. EXISTING 100 A, 120/240 V, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE, INSTALL 30 A, 120 V, 1P, CB FOR CCTV CAMERA. INSTALL 3#8. INSTALL MODEL 334-TV CABINET ON NEW FOUNDATION. CABINET TO INCLUDE CCTV CAMERA EQUIPMENT. SEE SHEET E-246. RL EXISTING 1-A POLE WITH EXISTING SIGNAL HEADS TO MAINTAIN OPERATION DURING INSTALLATION OF STATE-FURNISHED CCTV-45 POLE. RC 1-A POLE AND EQUIPMENT AFTER INSTALLATION OF NEW STATE-FURNISHED CCTV 45 POLE. INSTALL STATE-FURNISHED CCTV-45 POLE IN EXACT LOCATION AS 1-A POLE UNLESS OTHERWISE NOTED. INSTALL 12SMFO. INSTALL COMPOSITE VIDEO CABLE. | <ol style="list-style-type: none"> INSTALL SPLICE VAULT, FIBER OPTIC SPLICE CLOSURE. ADD 3#8. ADD 12SMFO. INSTALL 12CSC FOR VEHICLE SIGNAL HEADS AND 3CSC FOR PEDESTRIAN SIGNAL HEADS. FOR COMMUNICATION SYSTEM ROUTING SEE SHEET E-235. |
|--|---|



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN
MODIFY SIGNAL AND CLOSED CIRCUIT TELEVISION CAMERA AND COMMUNICATION SYSTEM ROUTING (LOCATION 89) (ROUTE 1/CALIFORNIA INCLINE)
 SCALE 1:200

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.



USERNAME => s123048
 DGN FILE => 725730ua203.dgn

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DESIGN OVERSIGHT
 YEFIM ZABESHINSKY
 CALCULATED/DESIGNED BY
 CHECKED BY
 MR
 KM
 DATE
 4/06
 4/06
 REVISIONS
 BY
 DATE
 REVISIONS
 BY
 DATE



LAST REVISION DATE PLOTTED => 24-OCT-2008
 00-00-00 TIME PLOTTED => 14:12



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	1, 105	Var	227	308

08/06
 REGISTERED ELECTRICAL ENGINEER
 Keene Matsuda
 No. E11758
 Exp. 9/30/06
 REGISTERED PROFESSIONAL ENGINEER
 ELECTRICAL
 STATE OF CALIFORNIA

9-25-06
 PLANS APPROVAL DATE

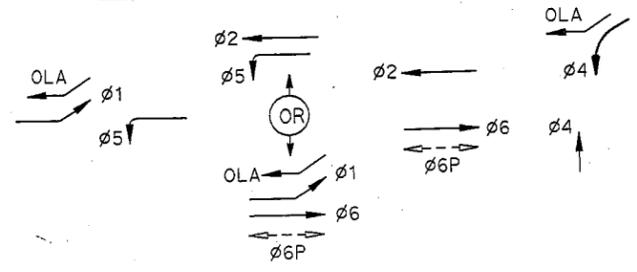
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To get to the Caltrans web site, go to: <http://www.dot.ca.gov>

CH2M HILL
 3 HUTTON CENTRE DRIVE, SUITE 200
 SANTA ANA, CA 92707

- NOTES:**
- FOR POLE, CONDUIT AND CONDUCTOR SCHEDULES SEE SHEET E-204.
 - SEE SHEET E-245 FOR INSTALLATION OF CCTV CAMERA AND SIGNAL EQUIPMENT ON STATE-FURNISHED CCTV 45 POLE.

EXISTING SIGNAL PHASE DIAGRAM



AS-BUILT

Contract No. 07- **257304**

Resident Engineer: **AMY MAO**

Completion Date: **12/12/07**

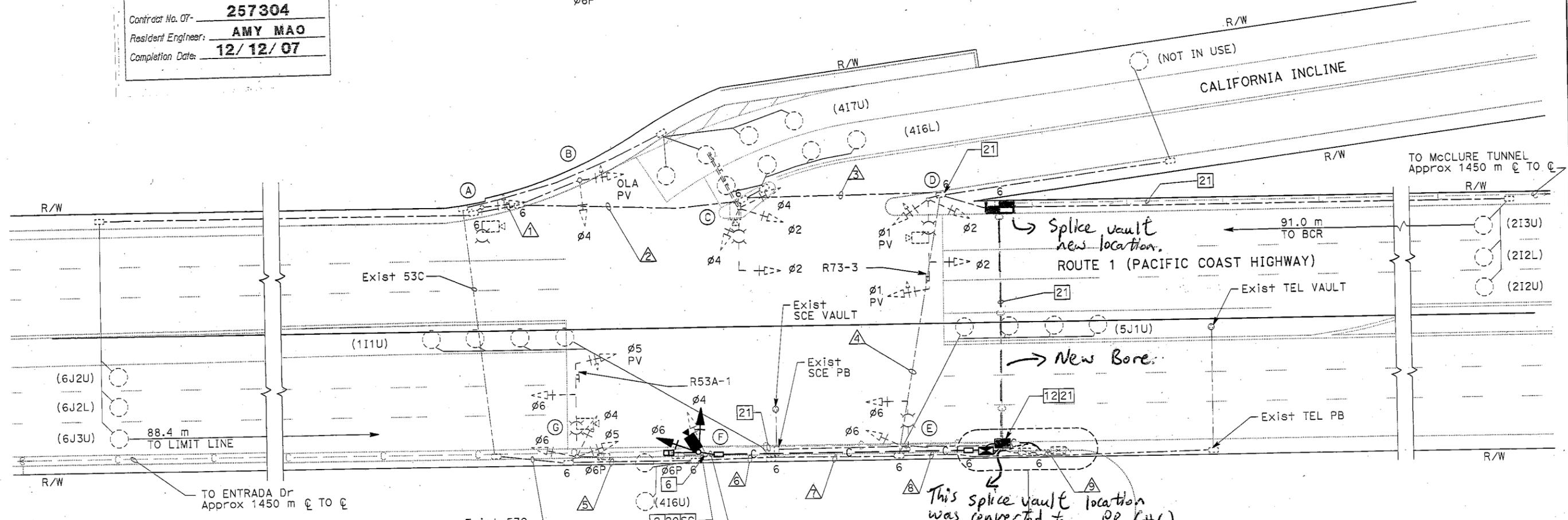
REVISOR
 DATE
 4/06
 4/06

MR
 KM

CALCULATED/
 DESIGNED BY
 CHECKED BY

DESIGN OVERSIGHT
 YEFIM ZABESHINSKY

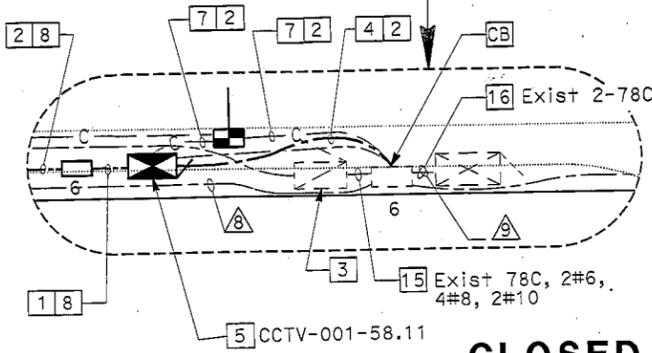
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Caltrans



PROJECT NOTES: (THIS SHEET)

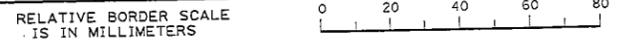
- INSTALL 2-78C.
- INSTALL 53C.
- EXISTING 100 A, 120/240 V, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE, INSTALL 30 A, 120 V, 1P, CB FOR CCTV CAMERA.
- INSTALL 3#8.
- INSTALL MODEL 334-TV CABINET ON NEW FOUNDATION. CABINET TO INCLUDE CCTV CAMERA EQUIPMENT. SEE SHEET E-246.
- EXISTING 1-A POLE WITH EXISTING SIGNAL HEADS TO MAINTAIN OPERATION DURING INSTALLATION OF STATE-FURNISHED CCTV-45 POLE. 1-A POLE AND EQUIPMENT AFTER INSTALLATION OF NEW STATE-FURNISHED CCTV-45 POLE. INSTALL STATE-FURNISHED CCTV-45 POLE IN EXACT LOCATION AS 1-A POLE UNLESS OTHERWISE NOTED.
- INSTALL 12SMFO.
- INSTALL COMPOSITE VIDEO CABLE.

- INSTALL SPLICE VAULT, FIBER OPTIC SPLICE CLOSURE.
- ADD 3#8.
- ADD 12SMFO.
- INSTALL 12CSC FOR VEHICLE SIGNAL HEADS AND 3CSC FOR PEDESTRIAN SIGNAL HEADS.
- FOR COMMUNICATION SYSTEM ROUTING SEE SHEET E-235.



MODIFY SIGNAL AND CLOSED CIRCUIT TELEVISION CAMERA AND COMMUNICATION SYSTEM ROUTING (LOCATION 89) (ROUTE 1/CALIFORNIA INCLINE)

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.



USERNAME => trmartin
 DGN FILE => 7257304a203.dgn

SCALE 1:200

CU 07382

EA 257301

E-203

DATE PLOTTED => 28-SEP-2006
 TIME PLOTTED => 09:48
 LAST REVISION

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN OVERSIGHT
 YEFIM ZABEZHINSKY
 MR KM
 DATE 4/06
 REVISIONS: 4/06, 4/06
 CHECKED BY: KM
 DESIGNED BY: YEFIM ZABEZHINSKY
 REVISIONS: 4/06, 4/06
 CALCULATED/DESIGNED BY: YEFIM ZABEZHINSKY
 CHECKED BY: KM



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1, 105	Var	228	308

08/06
 REGISTERED ELECTRICAL ENGINEER
 Keene Matsuda
 No. E11758
 Exp. 9/30/06
 ELECTRICAL
 STATE OF CALIFORNIA

9-25-06
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To get to the Caltrans web site, go to: <http://www.dot.ca.gov>

CH2M HILL
3 HUTTON CENTRE DRIVE, SUITE 200
SANTA ANA, CA 92707

AS-BUILT

Contract No. 07- **257304**

Resident Engineer: **AMY MAO**

Completion Date: **12/12/07**

EXISTING CONDUIT AND CONDUCTOR SCHEDULE

AWG OR CABLE	CONDUCTOR RUN	CONDUIT RUN								
		1	2	3	4	5	6	7	8	9
28 CONDUCTOR CABLE	Ø1									
	Ø2									
	Ø4									
	Ø6	2	2	2	2	2	2	2	4	4
	Ø6 P									
	SIGNAL COMMON									
	SPARES									
	Ø6 P									
#12	SIGN LIGHTING	-	-	1	1	-	-	-	1	1
2 #12 dlc TYPE A	Ø1 DETECTORS	-	-	-	-	-	-	1	1	1
	Ø2 DETECTORS	-	-	-	3	-	-	-	3	3
	Ø4 DETECTORS	-	-	1	1	1	2	2	3	3
	Ø5 DETECTORS	-	-	-	-	-	-	-	1	1
	Ø6 DETECTORS	3	3	3	3	-	-	-	3	3
	TOTAL	3	3	4	7	1	2	3	11	11
#6	VIDEO DETECTOR CABLE	1	1	2	3	1	1	1	4	4
#6	LUMINAIRE	2	2	2	2	2	2	2	-	-
CONDUIT SIZE (mm)		78	78	78	78	78	78	78	2-78C	2-78C 1-53C

NEW POLE AND EQUIPMENT SCHEDULE

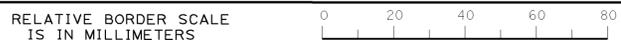
No.	TYPE	STANDARD		VEH SIG MTG		PED SIG MTG	PPB		HPS LUM	SPECIAL REQUIREMENTS
		SMA (m)	LMA (m)	MAST ARM (m)	POLE		Ø	ARROW		
F	CCTV 45	-	-	-	SV-1-TA	SP-1-T	-	-	-	-

EXISTING POLE AND EQUIPMENT SCHEDULE

No.	TYPE	STANDARD		VEG SIG MTG		PED SIG MTG	P		HPS LUMINAIRE (W)	STREET NAME SIGNS
		SMA (m)	LMA (m)	MA	POLE		Ø	ARROW		
A	15	-	3.7	-	SV-1-T	-	-	-	200	-
B	1-A	-	-	-	TV-2-T	-	-	-	-	-
C	SIGN STRUCTURE	5.5	-	MAS	SV-3-TA	-	-	-	-	-
D	19-4-129	9.1	3.7	2-MAS	SV-2-TA	-	-	-	200	-
E	17-2-129	5.5	3.7	MAS	SV-1-T	-	-	-	200	-
F	1-A	-	-	-	TV-1	SP-1-T	-	-	-	-
G	19-4-129	9.1	3.7	2-MAS	SV-3-TA	SP-1-T	-	-	200	-

MODIFY SIGNAL AND CLOSED CIRCUIT TELEVISION CAMERA AND COMMUNICATION SYSTEM ROUTING (LOCATION 89) (ROUTE 1/ CALIFORNIA INCLINE)

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.



USERNAME => s123048
DGN FILE => 725730ua204.dgn

NO SCALE

CU 07382

EA 257301

E-204

LAST REVISION: DATE PLOTTED => 24-OCT-2008
 00-00-00 TIME PLOTTED => 14:12

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN OVERSIGHT
 YEFIM ZABEZHINSKY
 MR KM
 DATE REVISIONS BY
 4/06 4/06 DATE REVISIONS BY
 4/06 4/06 DATE REVISIONS BY

NOTES:

1. FOR POLE, CONDUIT AND CONDUCTOR SCHEDULES, SEE SHEET E-206.
2. FOR MODIFY SIGNAL AND CCTV CONSTRUCTION PLAN, SEE "MODIFY SIGNAL AND CLOSED CIRCUIT TELEVISION CAMERA AND COMMUNICATION SYSTEM ROUTING" SHEET.
3. FOR UTILITIES SEE SHEET U-15.

AS-BUILT

Contract No. 07- **257304**
 Resident Engineer: **AMY MAO**
 Completion Date: **12/12/07**



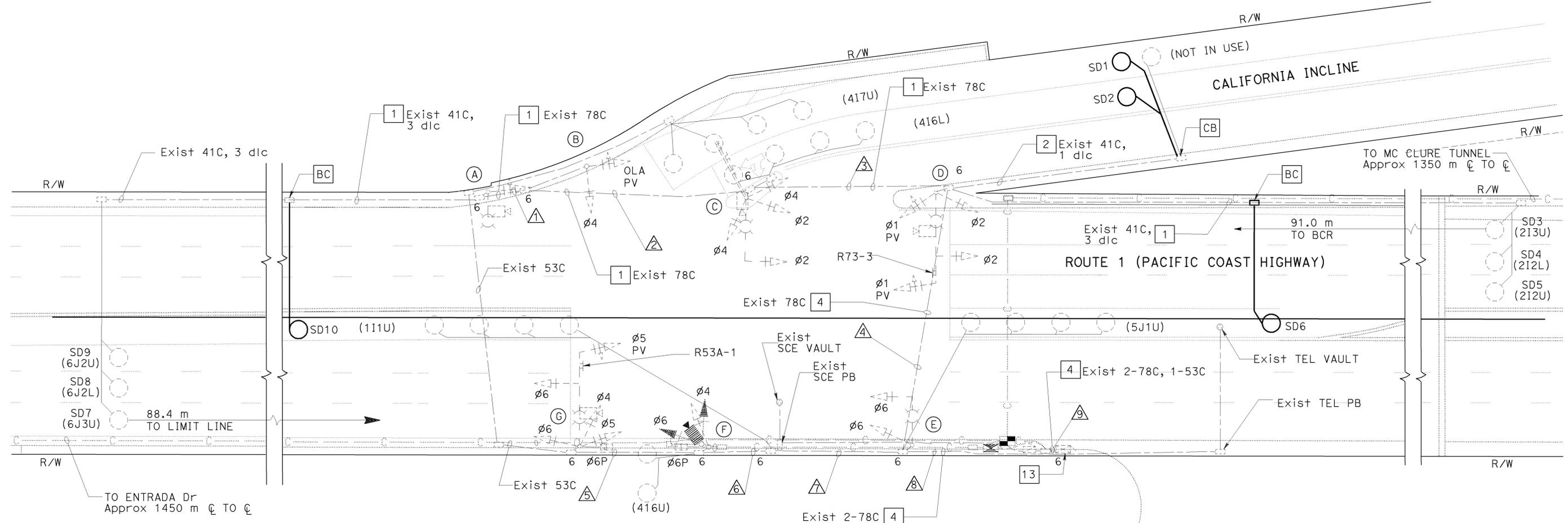
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1, 105	Var	229	308

08/06
 REGISTERED ELECTRICAL ENGINEER
 9-25-06
 PLANS APPROVAL DATE
 Keene Matsuda
 No. E11758
 Exp. 9/30/06
 REGISTERED PROFESSIONAL ENGINEER
 ELECTRICAL
 STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

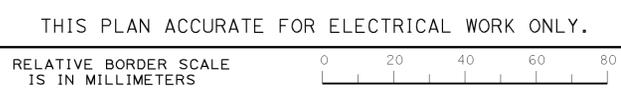
To get to the Caltrans web site, go to: <http://www.dot.ca.gov>

CH2M HILL
 3 HUTTON CENTRE DRIVE, SUITE 200
 SANTA ANA, CA 92707



- PROJECT NOTES: (THIS SHEET ONLY)**
- 1 ADD 1-DLC.
 - 2 ADD 2-DLC.
 - 4 ADD 4-DLC.
 - 13 **RS** EXISTING MODEL 170 CONTROLLER. FURNISH AND INSTALL FOTM, C-MIC, AND STATE-FURNISHED MODEL 2070L CONTROLLER WITH MODEL 2070-6A MODEM AND LOOP DETECTOR SENSOR UNITS IN EXISTING MODEL 332 CONTROLLER CABINET.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN
ADAPTIVE TRAFFIC CONTROL SIGNAL
 (LOCATION 89)
 (ROUTE 1/ CALIFORNIA INCLINE)
 SCALE 1:200



LAST REVISION: DATE PLOTTED => 24-OCT-2008
 00-00-00 TIME PLOTTED => 14:12

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN OVERSIGHT
 YEFIM ZABEZHINSKY
 MR
 KM
 DATE 4/06
 DATE 4/06
 REVISIONS: 4/06, 4/06



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1, 105	Var	230	308

08/06
 REGISTERED ELECTRICAL ENGINEER
 9-25-06
 PLANS APPROVAL DATE
 Keene Matsuda
 No. E11758
 Exp. 9/30/06
 ELECTRICAL
 STATE OF CALIFORNIA
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

AS-BUILT
 Contract No. 07- **257304**
 Resident Engineer: **AMY MAO**
 Completion Date: **12/12/07**

To get to the Caltrans web site, go to: <http://www.dot.ca.gov>
 CH2M HILL
 3 HUTTON CENTRE DRIVE, SUITE 200
 SANTA ANA, CA 92707

EXISTING CONDUIT AND CONDUCTOR SCHEDULE

AWG OR CABLE	CONDUCTOR RUN	CONDUIT RUN								
		1	2	3	4	5	6	7	8	9
28 CONDUCTOR CABLE	Ø1									
	Ø2									
	Ø4									
	Ø5									
	Ø6	2	2	2	2	2	2	2	4	4
	OLA									
	Ø6 P									
	SIGNAL COMMON									
SPARES										
#12	SIGN LIGHTING	-	-	1	1	-	-	-	1	1
2 #2 dlc TYPE A	Ø1 DETECTORS	-	-	-	-	-	-	1	1	1
	Ø2 DETECTORS	-	-	-	3	-	-	-	3	3
	Ø4 DETECTORS	-	-	1	1	1	2	2	3	3
	Ø5 DETECTORS	-	-	-	-	-	-	-	1	1
	Ø6 DETECTORS	3	3	3	3	-	-	-	3	3
	TOTAL	3	3	4	7	1	2	3	11	11
	VIDEO DETECTOR CABLE	1	1	2	3	1	1	1	4	4
#6	LUMINAIRE	2	2	2	2	2	2	2	-	-
	CONDUIT SIZE (mm)	78	78	78	78	78	78	78	2-78C	2-78 1-53

EXISTING POLE AND EQUIPMENT SCHEDULE

No.	STANDARD		VEG SIG MTG		PED SIG MTG	P		HPS LUMINAIRE (W)	STREET NAME SIGNS
	TYPE	SMA (m)	LMA (m)	MA		POLE	Ø		
(A)	15	-	3.7	-	SV-1-T	-	-	200	-
(B)	1-A	-	-	-	TV-2-T	-	-	-	-
(C)	SIGN STRUCTURE	5.5	-	MAS	SV-3-TA	-	-	-	-
(D)	19-4-129	9.1	3.7	2-MAS	SV-2-TA	-	-	200	-
(E)	17-2-129	5.5	3.7	MAS	SV-1-T	-	-	200	-
(F)	1-A	-	-	-	TV-1	SP-1-T	-	-	-
(G)	19-4-129	9.1	3.7	2-MAS	SV-3-TA	SP-1-T	-	200	-

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN
ADAPTIVE TRAFFIC CONTROL SIGNAL
 (LOCATION 89)
 (ROUTE 1/ CALIFORNIA INCLINE)
 NO SCALE

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.



USERNAME => s123048
 DGN FILE => 725730u0206.dgn

CU 07382

EA 257301

E-206

LAST REVISION: 00-00-00
 DATE PLOTTED => 24-OCT-2008
 TIME PLOTTED => 14:12

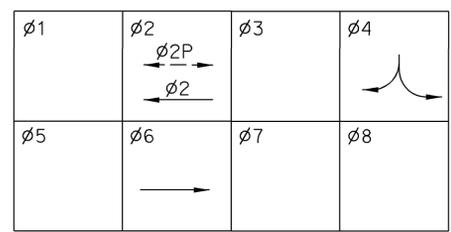
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN OVERSIGHT
 YEFIM ZABEZHINSKY
 MR KM
 CALCULATED/DESIGNED BY
 CHECKED BY
 DATE REVISED BY
 DATE REVISED
 4/06 4/06

PROJECT NOTES: (THIS SHEET ONLY)

- 1 ADD 1-DLC
- 5 INSTALL 53C
- 8 ADD 12SMFO
- 10 INSTALL No. 6(E) PULL BOX WITH 45 DEGREE CONDUIT SWEEPS PER DETAIL A ON SHEET E-256, FIBER OPTIC SPLICE CLOSURE.
- 13 **RS** EXISTING MODEL 170 CONTROLLER, FURNISH AND INSTALL FOTM, C-MIC, AND STATE-FURNISHED MODEL 2070L CONTROLLER WITH MODEL 2070-6A MODEM AND LOOP DETECTOR SENSOR UNITS IN EXISTING MODEL 332 CONTROLLER CABINET.
- 15 INSTALL 1-DLC
- 20 INSTALL 12SMFO.
- 21 FOR COMMUNICATION SYSTEM ROUTING SEE SHEET E-237.

AS-BUILT
 Contract No. 07- **257304**
 Resident Engineer: **AMY MAO**
 Completion Date: **12/12/07**

EXISTING PHASE DIAGRAM



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1, 105	Var	231	308

08/06
 REGISTERED ELECTRICAL ENGINEER
 9-25-06
 PLANS APPROVAL DATE
 Keene Matsuda
 No. E11758
 Exp. 9/30/06
 REGISTERED PROFESSIONAL ENGINEER
 ELECTRICAL
 STATE OF CALIFORNIA
 To get to the Caltrans web site, go to: <http://www.dot.ca.gov>
 CH2M HILL
 3 HUTTON CENTRE DRIVE, SUITE 200
 SANTA ANA, CA 92707

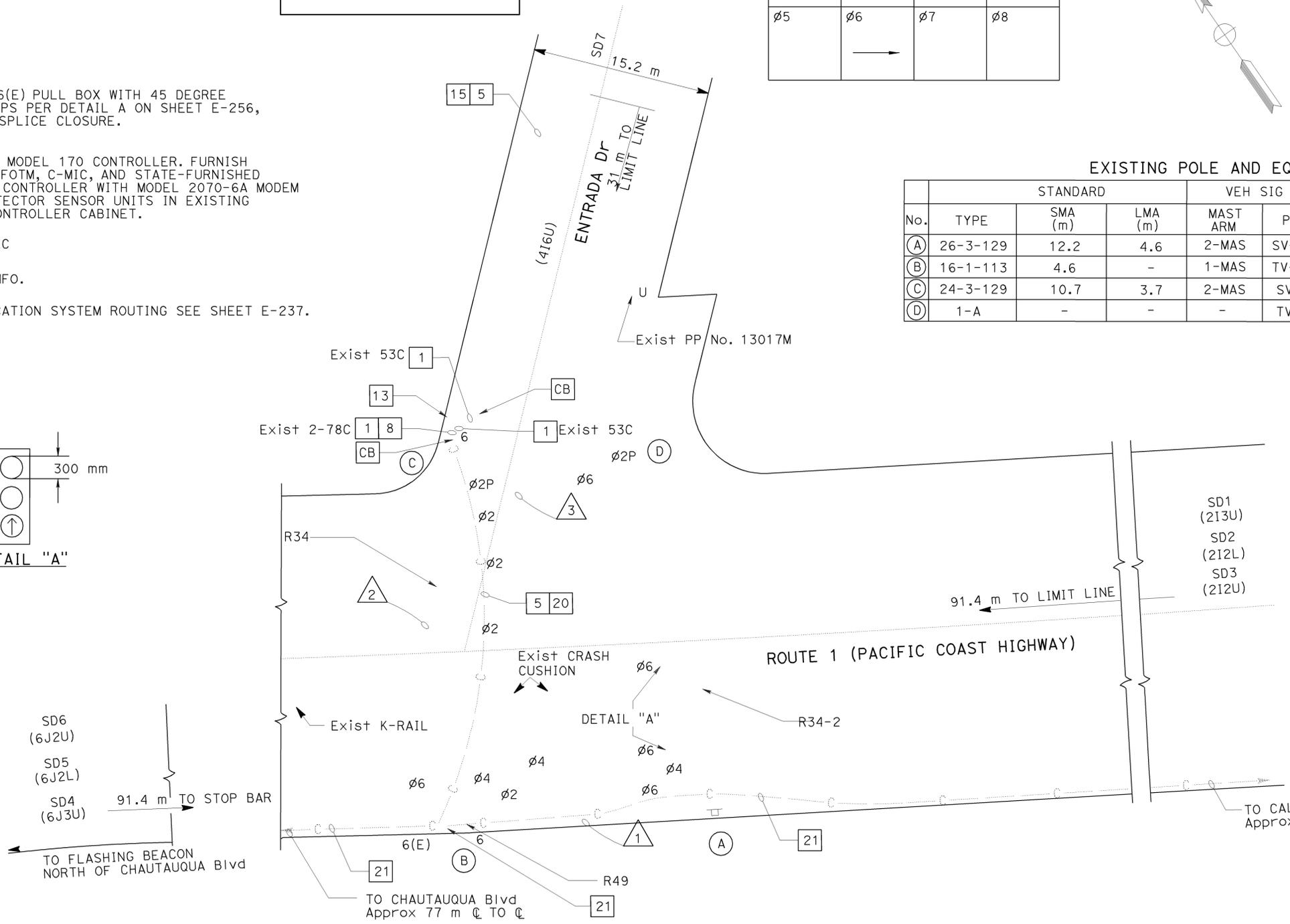
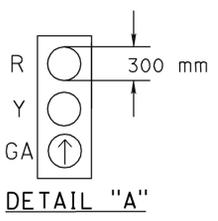
EXISTING POLE AND EQUIPMENT SCHEDULE

No.	TYPE	STANDARD		VEH SIG MTG		PED SIGNAL		PPB		HPS LUMINAIRE (W)
		SMA (m)	LMA (m)	MAST ARM	POLE	MTG	ø	ARROW		
A	26-3-129	12.2	4.6	2-MAS	SV-2-TA	-	-	-	-	200
B	16-1-113	4.6	-	1-MAS	TV-3-TA	-	-	-	-	-
C	24-3-129	10.7	3.7	2-MAS	SV-1-T	SP-1-T	2	-	-	200
D	1-A	-	-	-	TV-1-T	SP-1-T	2	-	-	-

EXISTING CONDUCTOR SCHEDULE

AWG	CONDUCTOR RUN	CIRCUIT RUN		
		1	2	3
#14	ø2	-	3	-
	ø4	3	3	-
	ø6	3	3	3
	ø2P	-	-	2
	ø2 PPB	-	-	2
	SPARES	3	3	3
TOTAL		9	12	10
2#14	ø2C DETECTORS	-	-	3
d/c	ø6C DETECTORS	-	3	-
#10	LUMINAIRES	2	2	-
	SIGNAL COMMON	1	1	1
#8	SERVICE FOR Q LOOPS	-	-	-
	FLASHING BEACON	-	2	-
**	Q DETECTORS	-	1	-
VIDEO DETECTOR CABLE		1	1	-
CONDUIT SIZE (mm)		41	63	53

** -12 PAIR #19 SHIELDED CABLE



THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.



USERNAME => s123048
 DGN FILE => 725730ua207.dgn

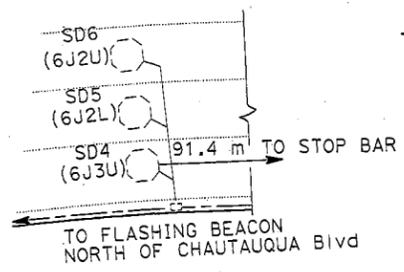
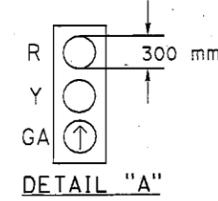
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN
ADAPTIVE TRAFFIC CONTROL SIGNAL AND COMMUNICATION SYSTEM ROUTING
 (LOCATION 90)
 (ROUTE 1/ENTRADA DRIVE)
 SCALE 1:200
E-207

DATE PLOTTED => 24-OCT-2008
 TIME PLOTTED => 14:12
 LAST REVISION: 00-00-00

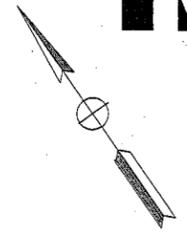
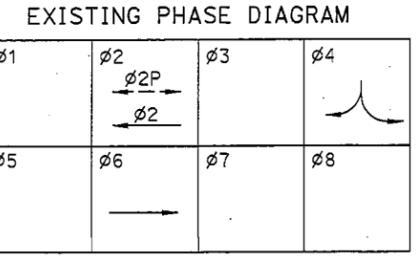
PROJECT NOTES: (THIS SHEET ONLY)

- 1 ADD 1-DLC
- 5 INSTALL 53C
- 8 ADD 12SMFO
- 10 INSTALL No. 6(E) PULL BOX WITH 45 DEGREE CONDUIT SWEEPS PER DETAIL A ON SHEET E-256, FIBER OPTIC SPLICE CLOSURE.
- 13 **RS** EXISTING MODEL 170 CONTROLLER. FURNISH AND INSTALL FOTM, C-MIC, AND STATE-FURNISHED MODEL 2070L CONTROLLER WITH MODEL 2070-6A MODEM AND LOOP DETECTOR SENSOR UNITS IN EXISTING MODEL 332 CONTROLLER CABINET.
- 15 INSTALL 1-DLC
- 20 INSTALL 12SMFO.
- 21 FOR COMMUNICATION SYSTEM ROUTING SEE SHEET E-237.

This setup doesn't exist in the field. Only 1 PB exists in this location.



Splice vault on E-208 was relocated to this location.



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	1, 105	Var	231	308

08/06
 REGISTERED ELECTRICAL ENGINEER
 Keene Matsuda
 No. E11758
 Exp. 9/30/06
 STATE OF CALIFORNIA
 REGISTERED PROFESSIONAL ENGINEER
 ELECTRICAL

9-25-06
 PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To get to the Caltrans web site, go to: <http://www.dot.ca.gov>

CH2M HILL
 3 HUTTON CENTRE DRIVE, SUITE 200
 SANTA ANA, CA 92707

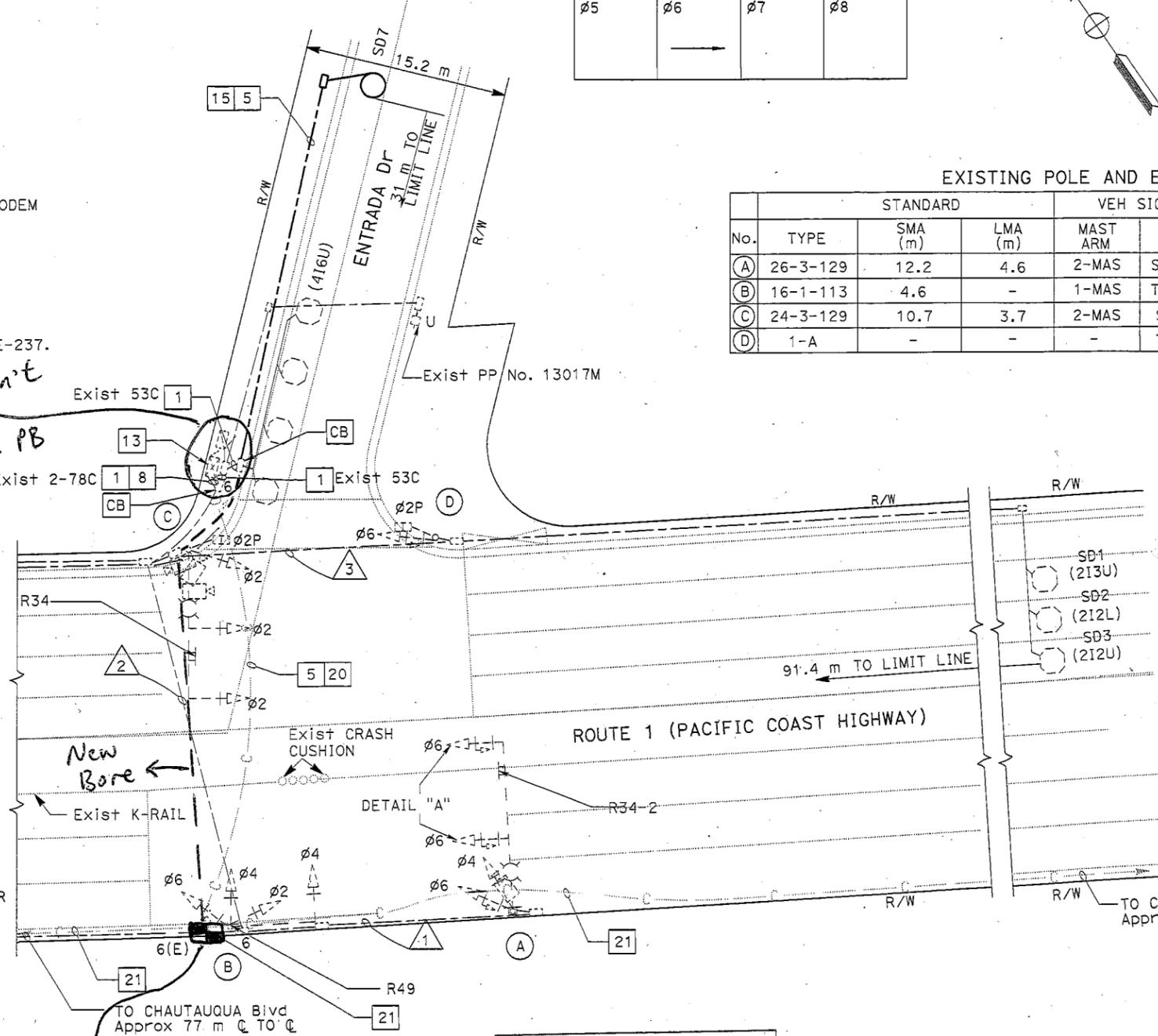
EXISTING POLE AND EQUIPMENT SCHEDULE

No.	TYPE	STANDARD		VEH SIG MTG		PED SIGNAL		PPB	HPS LUMINAIRE (W)
		SMA (m)	LMA (m)	MAST ARM	POLE	MTG	Ø		
A	26-3-129	12.2	4.6	2-MAS	SV-2-TA	-	-	-	200
B	16-1-113	4.6	-	1-MAS	TV-3-TA	-	-	-	-
C	24-3-129	10.7	3.7	2-MAS	SV-1-T	SP-1-T	2	-	200
D	1-A	-	-	-	TV-1-T	SP-1-T	2	-	-

EXISTING CONDUCTOR SCHEDULE

AWG	CONDUCTOR RUN	CIRCUIT RUN		
		1	2	3
#14	Ø2	-	3	-
	Ø4	3	3	-
	Ø6	3	3	3
	Ø2P	-	-	2
	Ø2 PPB	-	-	2
	SPARES	3	3	3
	TOTAL	9	12	10
2#14	Ø2C DETECTORS	-	-	3
d/c	Ø6C DETECTORS	-	3	-
#10	LUMINAIRES	2	2	-
	SIGNAL COMMON	1	1	1
#8	SERVICE FOR Q LOOPS	-	-	-
	FLASHING BEACON	-	2	-
**	Q DETECTORS	-	1	-
	VIDEO DETECTOR CABLE	1	1	-
	CONDUIT SIZE (mm)	41	63	53

** -12 PAIR #19 SHIELDED CABLE



AS-BUILT

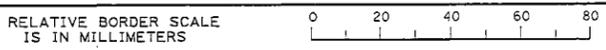
Contract No. 07- **257304**

Resident Engineer: **AMY MAO**

Completion Date: **12/12/07**

ADAPTIVE TRAFFIC CONTROL SIGNAL AND COMMUNICATION SYSTEM ROUTING (LOCATION 90) (ROUTE 1/ENTRADA DRIVE)

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.



USERNAME => trmartin
 DGN FILE => 7257304.dgn

SCALE 1:200

CU 07382

EA 257301

E-207

LAST REVISION DATE PLOTTED => 28-SEP-2006
 00-00-00 TIME PLOTTED => 09:49

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1, 105	Var	232	308

08/06
REGISTERED ELECTRICAL ENGINEER

9-25-06
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To get to the Caltrans web site, go to: <http://www.dot.ca.gov>

CH2M HILL
3 HUTTON CENTRE DRIVE, SUITE 200
SANTA ANA, CA 92707



NOTES:

- FOR POLE, CONDUIT AND CONDUCTOR SCHEDULES, SEE SHEET E-209.
- SEE SHEET E-245 FOR INSTALLATION OF CCTV CAMERA AND SIGNAL EQUIPMENT ON STATE-FURNISHED CCTV 45 POLE.

AS-BUILT

Contract No. 07- **257304**

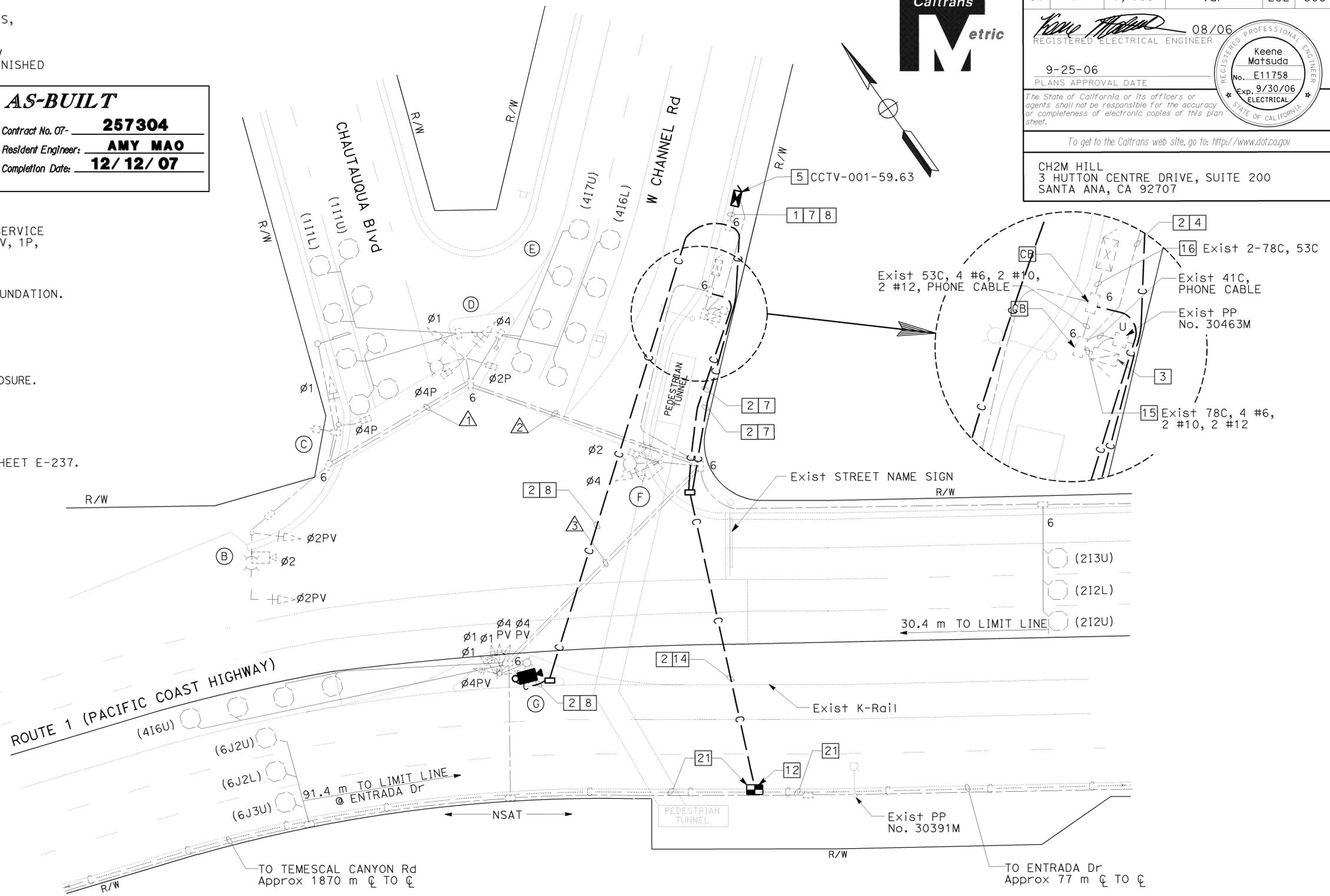
Resident Engineer: **AMY MAO**

Completion Date: **12/12/07**

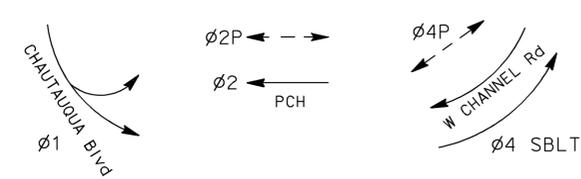
PROJECT NOTES: (THIS SHEET)

- INSTALL 2-78C.
- INSTALL 53C.
- EXISTING 100 A, 120/240 V, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE, INSTALL 30 A, 120 V, 1P, CB FOR CCTV CAMERA.
- INSTALL 3#8.
- INSTALL MODEL 334-TV CABINET ON NEW FOUNDATION. CABINET TO INCLUDE CCTV CAMERA AND VIDEO NODE EQUIPMENT, SEE SHEET E-248.
- INSTALL 12SMFO.
- INSTALL COMPOSITE VIDEO CABLE.
- INSTALL SPLICE VAULT, FIBER OPTIC SPLICE CLOSURE.
- INSTALL 2-12SMFO.
- ADD 3#8.
- ADD 12SMFO.
- FOR COMMUNICATION SYSTEM ROUTING SEE SHEET E-237.

DATE	REVISOR	DATE	REVISOR
4/06	4/06	4/06	4/06
MR	MR	MR	MR
YEFIM ZABEZHINSKY	YEFIM ZABEZHINSKY	YEFIM ZABEZHINSKY	YEFIM ZABEZHINSKY



SIGNAL PHASE DIAGRAM
CHAUTAUQUA Blvd /W CHANNEL Rd



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MODIFY SIGNAL AND CLOSED CIRCUIT TELEVISION CAMERA AND COMMUNICATION SYSTEM ROUTING VIDEO NODE (LOCATION 91) (ROUTE 1/CHAUTAUQUA BOULEVARD)

SCALE 1:200 **E-208**

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.



USERNAME => s123048
DGN FILE => 725730ua208.dgn

CU 07382 EA 257301

LAST REVISION: 00-00-00
DATE PLOTTED => 24-OCT-2008
TIME PLOTTED => 14:12

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET TOTAL No. SHEETS
07	LA	1, 105	Var	232, 308
		08/06 REGISTERED ELECTRICAL ENGINEER Keene Matsuda No. E11758 Exp. 9/30/06 REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA		
9-25-06 PLANS APPROVAL DATE <small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small> To get to the Caltrans web site, go to: http://www.dot.ca.gov				
CH2M HILL 3 HUTTON CENTRE DRIVE, SUITE 200 SANTA ANA, CA 92707				

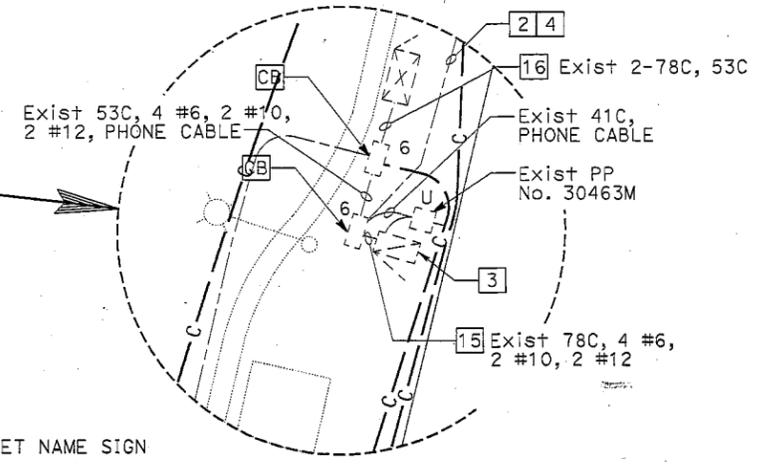
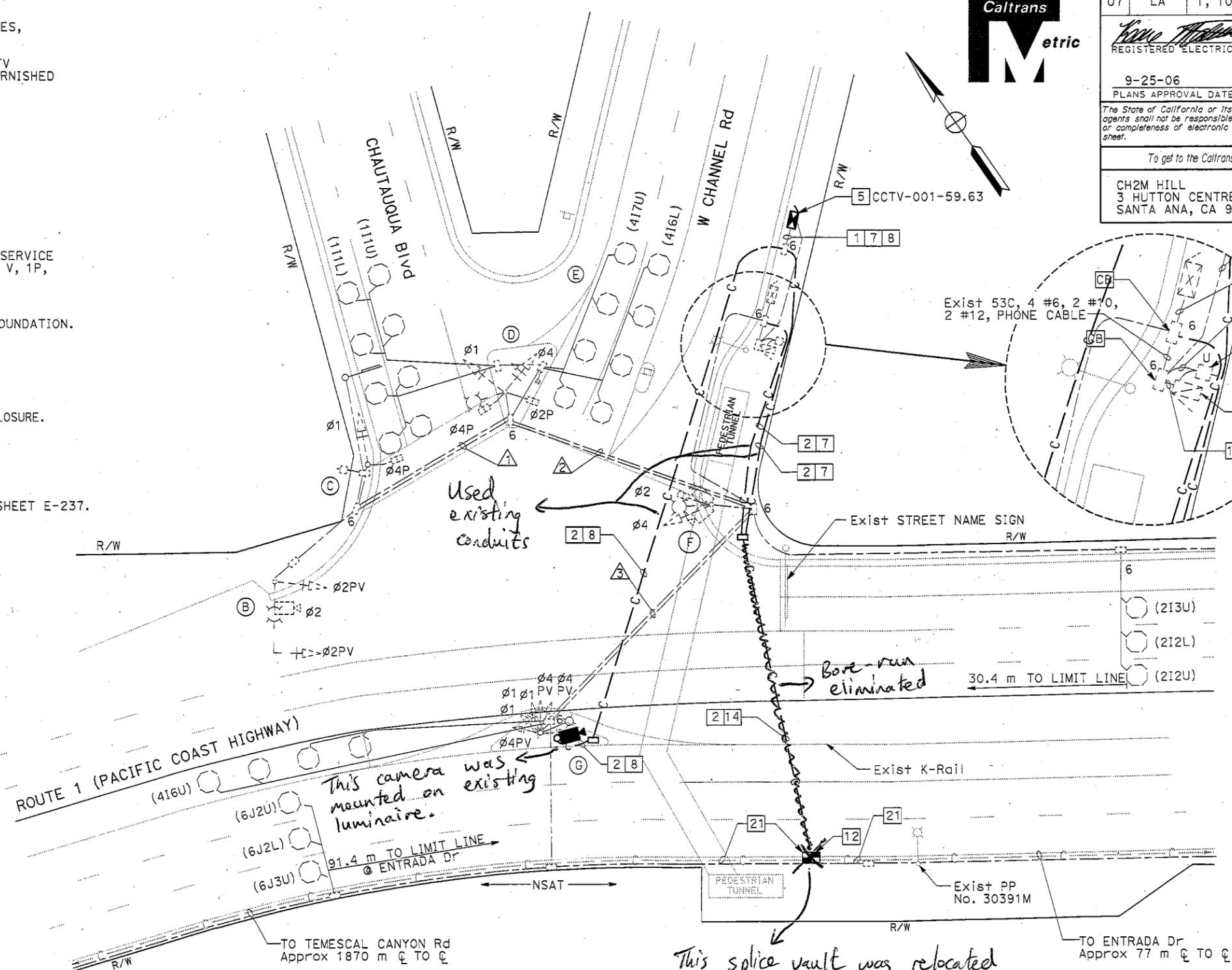
NOTES:

- FOR POLE, CONDUIT AND CONDUCTOR SCHEDULES, SEE SHEET E-209.
- SEE SHEET E-245 FOR INSTALLATION OF CCTV CAMERA AND SIGNAL EQUIPMENT ON STATE-FURNISHED CCTV 45 POLE.

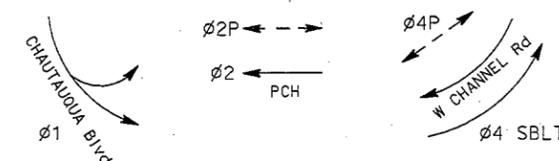
PROJECT NOTES: (THIS SHEET)

- INSTALL 2-78C.
- INSTALL 53C.
- EXISTING 100 A, 120/240 V, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE, INSTALL 30 A, 120 V, 1P, CB FOR CCTV CAMERA.
- INSTALL 3#8.
- INSTALL MODEL 334-TV CABINET ON NEW FOUNDATION. CABINET TO INCLUDE CCTV CAMERA AND VIDEO NODE EQUIPMENT, SEE SHEET E-248.
- INSTALL 12SMFO.
- INSTALL COMPOSITE VIDEO CABLE.
- INSTALL SPLICE VAULT, FIBER OPTIC SPLICE CLOSURE.
- INSTALL 2-12SMFO.
- ADD 3#8.
- ADD 12SMFO.
- FOR COMMUNICATION SYSTEM ROUTING SEE SHEET E-237.

AS-BUILT
 Contract No. 07- 257304
 Resident Engineer: AMY MAO
 Completion Date: 12/12/07



SIGNAL PHASE DIAGRAM
 CHAUTAUQUA Blvd /W CHANNEL Rd

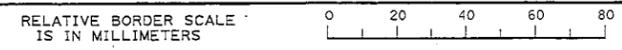


**MODIFY SIGNAL AND
 CLOSED CIRCUIT TELEVISION CAMERA
 AND COMMUNICATION SYSTEM ROUTING
 VIDEO NODE
 (LOCATION 91)
 (ROUTE 1/ CHAUTAUQUA BOULEVARD)**

SCALE 1:200

E-208

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.



USERNAME => trmartin
 DGN FILE => 725730ug208.dgn

CU 07382

EA 257301

LAST REVISION: 00-00-00
 DATE PLOTTED => 27-SEP-2006
 TIME PLOTTED => 16:24

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DESIGN OVERSIGHT
 YEFIM ZABEZHINSKY
 MR KM
 DATE 4/06
 REVISIONS: 4/06 DATE REVISED



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	1, 105	Var	233	308

08/06
 REGISTERED ELECTRICAL ENGINEER
 9-25-06
 PLANS APPROVAL DATE

Keene Matsuda
 No. E11758
 Exp. 9/30/06
 ELECTRICAL
 STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To get to the Caltrans web site, go to: <http://www.dot.ca.gov>

CH2M HILL
 3 HUTTON CENTRE DRIVE, SUITE 200
 SANTA ANA, CA 92707

AS-BUILT
 Contract No. 07- **257304**
 Resident Engineer: **AMY MAO**
 Completion Date: **12/12/07**

EXISTING CONDUIT AND CONDUCTOR SCHEDULE

AWG OR CABLE	CONDUCTOR RUN	CONDUIT RUN			
		1	2	3	4
28 CONDUCTOR CABLE	Ø2				
	Ø4				
	Ø1				
	Ø2P				
	Ø4P				
	Ø2 PPB	2	2	2	4
	Ø4 PPB				
	PPB & DETECTOR COMMON SPARES				
2#12 dlc	Ø4 DETECTORS	-	2	1	3
	Ø1 DETECTORS	-	2	-	2
	TOTAL dlc	-	4	1	8
#10	SIGNAL COMMON	1	1	1	2
	LUMINAIRES	2	2	2	4
	VIDEO DETECTOR CABLE	1	1	1	4
	CONDUIT SIZE (mm)	78	78	78	2-78

NEW POLE AND EQUIPMENT SCHEDULE

No.	TYPE	STANDARD		VEH SIG MTG		PED SIG MTG	PPB		HPS Lum	SPECIAL REQUIREMENTS
		SMA (m)	LMA (m)	MAST ARM (m)	POLE		Ø	ARROW		
Ⓒ	CCTV 45	-	-	-	-	-	-	-	-	-

EXISTING POLE AND EQUIPMENT SCHEDULE

No.	TYPE	STANDARD		VEH SIG MTG		PED SIGNAL MTG	PPB		HPS LUMINAIRE (W)	STREET NAME SIGNS
		SMA (m)	LMA (m)	MAST ARM	POLE		Ø	ARROW		
Ⓐ	15	-	3.7	-	SV-4-TA SV-2-TA(5.5 m)	-	-	-	200	-
Ⓑ	17	6.1	3.7	MAS	SV-1-T	-	-	-	200	-
Ⓒ	1-A	-	-	-	TV-1-T	SP-1-T	4	→	-	-
Ⓓ	X-A	-	3.7	-	SV-2-TA	SP-2-T	4	↔	200	-
Ⓔ	PPB POST	-	-	-	-	-	2	→	-	-
Ⓕ	15	-	3.7	-	SV-1-T	SP-1-T	2	←	200	-

**MODIFY SIGNAL AND
 CLOSED CIRCUIT TELEVISION CAMERA
 AND COMMUNICATION SYSTEM ROUTING
 VIDEO NODE
 (LOCATION 91)
 (ROUTE 1/ CHAUTAUQUA BOULEVARD)
 NO SCALE**

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.



USERNAME => s123048
 DGN FILE => 725730ua209.dgn

CU 07382

EA 257301

E-209

00-00-00 | LAST REVISION | DATE PLOTTED => 24-OCT-2008 | TIME PLOTTED => 14:13

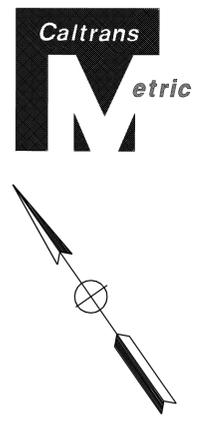
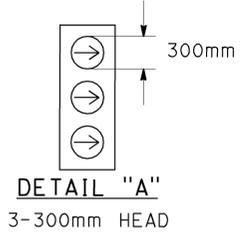
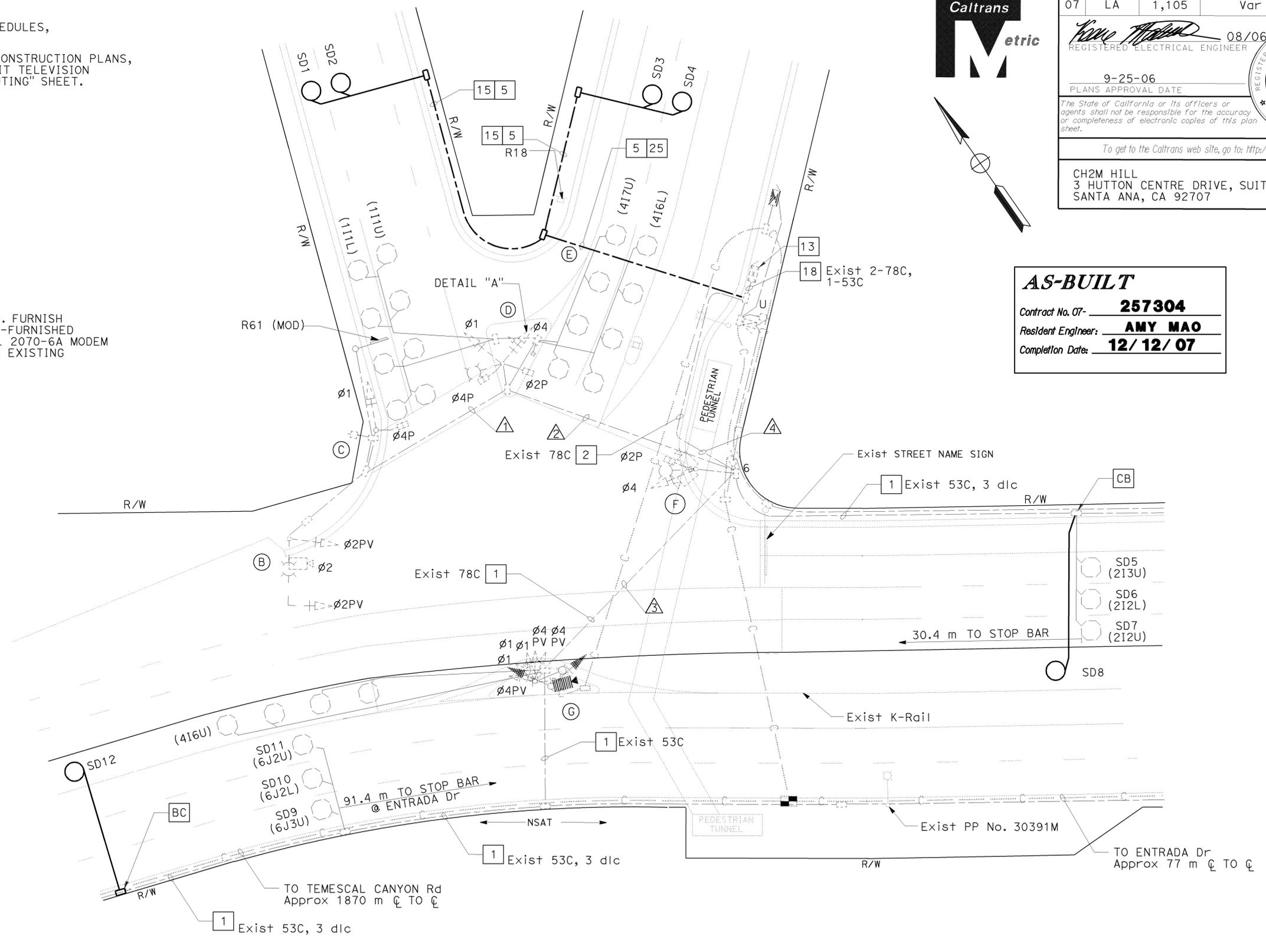
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN OVERSIGHT
 YEFIM ZABEZHINSKY
 MR KM
 DATE REVISIONS BY
 4/06 4/06
 REVISOR BY
 DATE REVISIONS BY
 4/06 4/06
 DESIGNED BY
 CHECKED BY

NOTES:

- FOR POLE, CONDUIT AND CONDUCTOR SCHEDULES, SEE SHEET E-211.
- FOR MODIFY SIGNAL AND CCTV CAMERA CONSTRUCTION PLANS, SEE "MODIFY SIGNAL AND CLOSED CIRCUIT TELEVISION CAMERA AND COMMUNICATION SYSTEM ROUTING" SHEET.
- FOR UTILITIES SEE SHEET U-16.

PROJECT NOTES: (THIS SHEET ONLY)

- 1 ADD 1-DLC
- 2 ADD 2-DLC
- 5 INSTALL 53C
- 13 **RS** EXISTING MODEL 170 CONTROLLER. FURNISH AND INSTALL FOTM, C-MIC, AND STATE-FURNISHED MODEL 2070L CONTROLLER WITH MODEL 2070-6A MODEM AND LOOP DETECTOR SENSOR UNITS IN EXISTING MODEL 332 CONTROLLER CABINET.
- 15 INSTALL 2-DLC
- 18 ADD 6-DLC.
- 25 INSTALL 4-DLC.



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1,105	Var	234	308

08/06
 REGISTERED ELECTRICAL ENGINEER
 Keene Matsuda
 No. E11758
 Exp. 9/30/06
 ELECTRICAL
 STATE OF CALIFORNIA

9-25-06
 PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To get to the Caltrans web site, go to: <http://www.dot.ca.gov>

CH2M HILL
 3 HUTTON CENTRE DRIVE, SUITE 200
 SANTA ANA, CA 92707

AS-BUILT
 Contract No. 07- **257304**
 Resident Engineer: **AMY MAO**
 Completion Date: **12/ 12/ 07**

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN
ADAPTIVE TRAFFIC CONTROL SIGNAL
 (LOCATION 91)
 (ROUTE 1/ CHAUTAUQUA BOULEVARD)
 SCALE 1:200

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.



USERNAME => s123048
 DGN FILE => 725730ua210.dgn

CU 07382

EA 257301

E-210

LAST REVISION DATE PLOTTED => 24-OCT-2008
 TIME PLOTTED => 14:13

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET TOTAL No. SHEETS
07	LA	1,105	Var	234A308

08/06
 REGISTERED ELECTRICAL ENGINEER
 Keene Matsuda
 No. E11758
 Exp. 9/30/06
 ELECTRICAL
 STATE OF CALIFORNIA

9-25-06
 PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To get to the Caltrans web site, go to: <http://www.dot.ca.gov>

CH2M HILL
 3 HUTTON CENTRE DRIVE, SUITE 200
 SANTA ANA, CA 92707

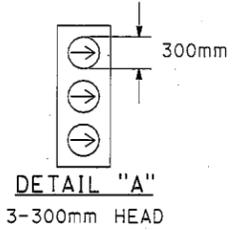
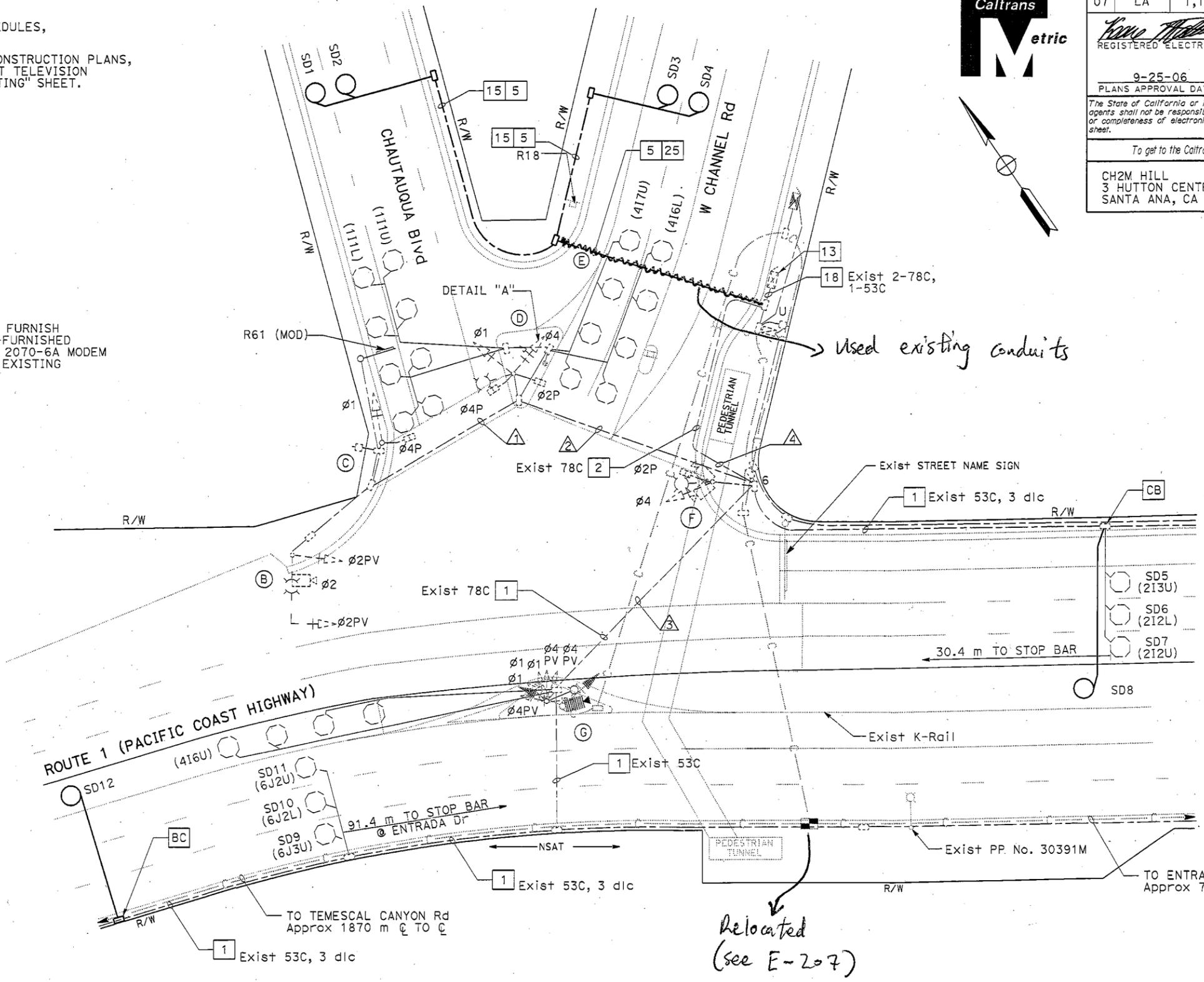


NOTES:

- FOR POLE, CONDUIT AND CONDUCTOR SCHEDULES, SEE SHEET E-211.
- FOR MODIFY SIGNAL AND CCTV CAMERA CONSTRUCTION PLANS, SEE "MODIFY SIGNAL AND CLOSED CIRCUIT TELEVISION CAMERA AND COMMUNICATION SYSTEM ROUTING" SHEET.
- FOR UTILITIES SEE SHEET U-16.

PROJECT NOTES: (THIS SHEET ONLY)

- 1 ADD 1-DLC
- 2 ADD 2-DLC
- 5 INSTALL 53C
- 13 **RS** EXISTING MODEL 170 CONTROLLER. FURNISH AND INSTALL FOTM, C-MIC, AND STATE-FURNISHED MODEL 2070L CONTROLLER WITH MODEL 2070-6A MODEM AND LOOP DETECTOR SENSOR UNITS IN EXISTING MODEL 332 CONTROLLER CABINET.
- 15 INSTALL 2-DLC
- 18 ADD 6-DLC.
- 25 INSTALL 4-DLC.

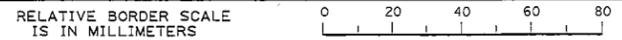


AS-BUILT

Contract No. 07- **257304**
 Resident Engineer: **AMY MAO**
 Completion Date: **12/12/07**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DESIGN OVERSIGHT: YEFIM ZABEZHINSKY
 Caltrans

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.



USERNAME => trkathy
DGN FILE => 725730aa210.dgn

CU 07382

EA 257301

ADAPTIVE TRAFFIC CONTROL SIGNAL
 (LOCATION 91)
 (ROUTE 1/CHAUTAUQUA BOULEVARD)
 SCALE 1:200

E-210

LAST REVISION: DATE PLOTTED => 27-SEP-2006
 00-00-00 TIME PLOTTED => 15:15

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN OVERSIGHT
 YEFIM ZABEZHINSKY
 CALCULATED/DESIGNED BY
 CHECKED BY
 MR
 KM
 DATE 4/06
 DATE 4/06
 REVISED BY
 DATE REVISÉ
 DATE REVISÉ



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1,105	Var	235	308
 08/06 REGISTERED ELECTRICAL ENGINEER					
PLANS APPROVAL DATE: 9-25-06					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					
To get to the Caltrans web site, go to: http://www.dot.ca.gov					
CH2M HILL 3 HUTTON CENTRE DRIVE, SUITE 200 SANTA ANA, CA 92707					

AS-BUILT

Contract No. 07- **257304**
 Resident Engineer: **AMY MAO**
 Completion Date: **12/12/07**

EXISTING CONDUIT AND CONDUCTOR SCHEDULE

AWG OR CABLE	CONDUCTOR RUN	CONDUIT RUN			
		1	2	3	4
28 CONDUCTOR CABLE	Ø2				
	Ø4				
	Ø1				
	Ø2P				
	Ø4P				
	Ø2 PPB	2	2	2	4
	Ø4 PPB				
	PPB & DETECTOR COMMON				
2#12 dlc	Ø4 DETECTORS	-	2	1	3
	Ø1 DETECTORS	-	2	-	2
	TOTAL dlc	-	4	1	8
#10	SIGNAL COMMON	1	1	1	2
	LUMINAIRES	2	2	2	4
	VIDEO DETECTOR CABLE	1	1	1	4
	CONDUIT SIZE (mm)	78	78	78	2-78

EXISTING POLE AND EQUIPMENT SCHEDULE

No.	STANDARD			VEH SIG MTG		PED SIGNAL MTG	PPB		HPS LUMINAIRE (W)	STREET NAME SIGNS
	TYPE	SMA (m)	LMA (m)	MAST ARM	POLE		Ø	ARROW		
(A)	15	-	3.7	-	SV-4-TA SV-2-TA(5.5 m)	-	-	-	200	-
(B)	17	6.1	3.7	MAS	SV-1-T	-	-	-	200	-
(C)	1-A	-	-	-	TV-1-T	SP-1-T	4	→	-	-
(D)	X-A	-	3.7	-	SV-2-TA	SP-2-T	4	↔	200	-
(E)	PPB POST	-	-	-	-	-	2	→	-	-
(F)	15	-	3.7	-	SV-1-T	SP-1-T	2	←	200	-

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN
ADAPTIVE TRAFFIC CONTROL SIGNAL
 (LOCATION 91)
 (ROUTE 1/ CHAUTAUQUA BOULEVARD)

NO SCALE

E-211

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

RELATIVE BORDER SCALE IS IN MILLIMETERS



USERNAME => s123048
 DGN FILE => 725730ua211.dgn

CU 07382

EA 257301

LAST REVISION: 00-00-00
 DATE PLOTTED => 24-OCT-2008
 TIME PLOTTED => 14:13

DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1,105	Var		236	308

<i>Keene Matsuda</i> 08/06	
REGISTERED ELECTRICAL ENGINEER	
9-25-06	
PLANS APPROVAL DATE	
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.	
To get to the Caltrans web site, go to: http://www.dot.ca.gov	
CH2M HILL 3 HUTTON CENTRE DRIVE, SUITE 200 SANTA ANA, CA 92707	



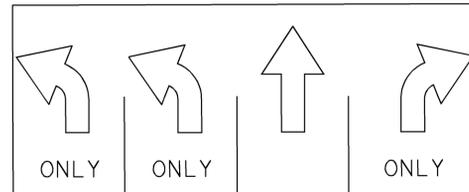
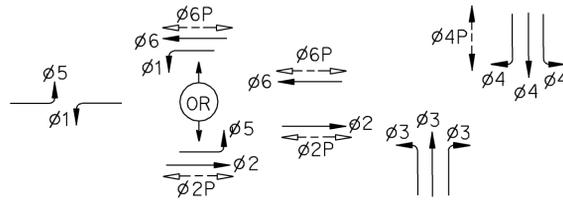
NOTES:

- FOR POLE, CONDUIT AND CONDUCTOR SCHEDULES, SEE SHEET E-213.
- SEE SHEET E-245 FOR INSTALLATION OF CCTV CAMERA AND SIGNAL EQUIPMENT ON STATE-FURNISHED CCTV 45 POLE.

AS-BUILT

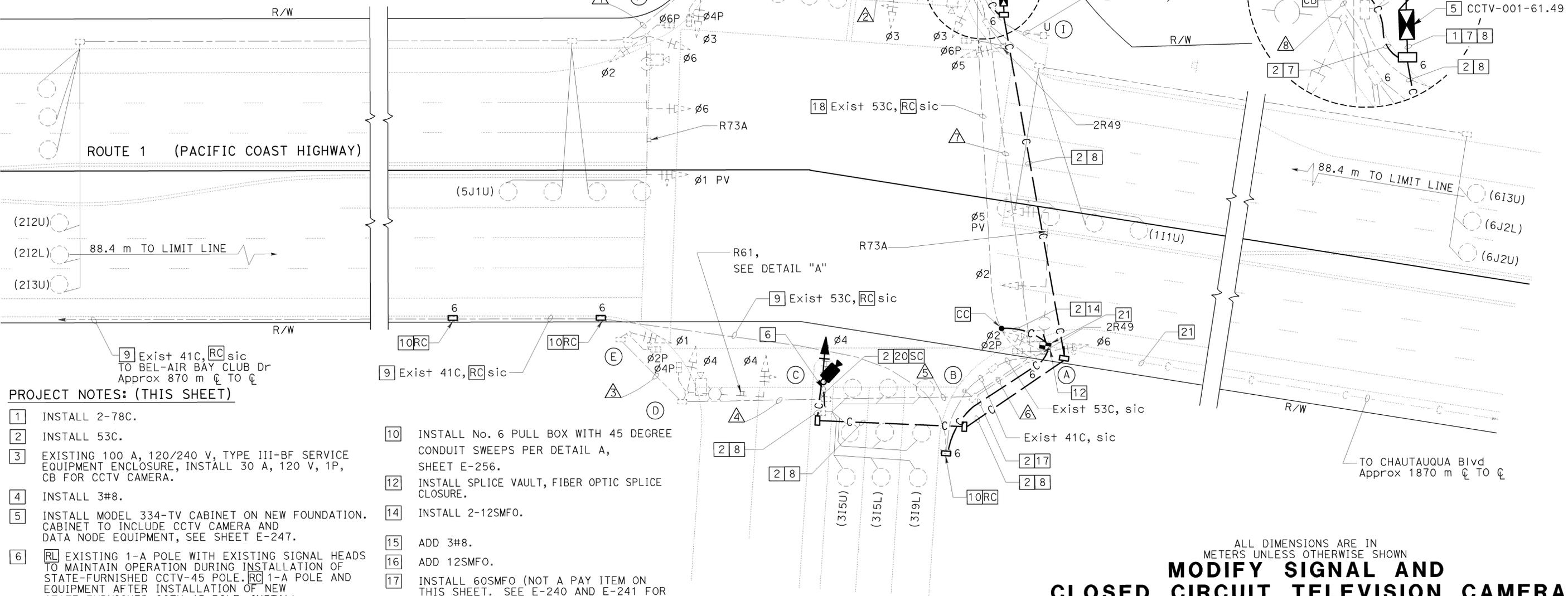
Contract No. 07- **257304**
 Resident Engineer: **AMY MAO**
 Completion Date: **12/12/07**

EXISTING SIGNAL PHASE DIAGRAM



R61 SIGN
DETAIL "A"

DATE	REVISOR	DATE	REVISION
4/06	4/06		
MR	KM		
CALCULATED/DESIGNED BY	CHECKED BY		
DESIGN OVERSIGHT			
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION			



PROJECT NOTES: (THIS SHEET)

- | | |
|---|--|
| <ol style="list-style-type: none"> INSTALL 2-78C. INSTALL 53C. EXISTING 100 A, 120/240 V, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE, INSTALL 30 A, 120 V, 1P, CB FOR CCTV CAMERA. INSTALL 3#8. INSTALL MODEL 334-TV CABINET ON NEW FOUNDATION. CABINET TO INCLUDE CCTV CAMERA AND DATA NODE EQUIPMENT, SEE SHEET E-247. EXISTING 1-A POLE WITH EXISTING SIGNAL HEADS TO MAINTAIN OPERATION DURING INSTALLATION OF STATE-FURNISHED CCTV-45 POLE. RC 1-A POLE AND EQUIPMENT AFTER INSTALLATION OF NEW STATE-FURNISHED CCTV 45 POLE. INSTALL STATE-FURNISHED CCTV-45 POLE IN EXACT LOCATION AS 1-A POLE UNLESS OTHERWISE NOTED. INSTALL 12SMFO. INSTALL COMPOSITE VIDEO CABLE. ADD 60SMFO (NOT A PAY ITEM ON THIS SHEET. SEE E-240 AND E-241 FOR TOTAL QUANTITIES.) | <ol style="list-style-type: none"> INSTALL No. 6 PULL BOX WITH 45 DEGREE CONDUIT SWEEPS PER DETAIL A, SHEET E-256. INSTALL SPLICE VAULT, FIBER OPTIC SPLICE CLOSURE. INSTALL 2-12SMFO. ADD 3#8. ADD 12SMFO. INSTALL 60SMFO (NOT A PAY ITEM ON THIS SHEET. SEE E-240 AND E-241 FOR TOTAL QUANTITIES.) ADD 2-12SMFO. INSTALL 12CSC FOR VEHICLE SIGNAL HEADS AND 3CSC FOR PEDESTRIAN SIGNAL HEADS. FOR COMMUNICATION SYSTEM ROUTING SEE SHEET E-239. |
|---|--|

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

**MODIFY SIGNAL AND
CLOSED CIRCUIT TELEVISION CAMERA
AND COMMUNICATION SYSTEM ROUTING
DATA NODE
(LOCATION 92)
(ROUTE 1/ TEMESCAL CANYON ROAD)**

SCALE 1:200 **E-212**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN OVERSIGHT
 YEFIM ZABEZHINSKY
 CALCULATED/DESIGNED BY
 CHECKED BY
 MR KM
 DATE REVISED BY
 DATE REVISED

NOTES:

- FOR POLE, CONDUIT AND CONDUCTOR SCHEDULES, SEE SHEET E-213.
- SEE SHEET E-245 FOR INSTALLATION OF CCTV CAMERA AND SIGNAL EQUIPMENT ON STATE-FURNISHED CCTV 45 POLE.

AS-BUILT

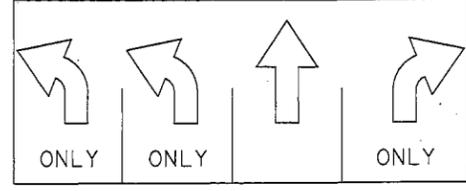
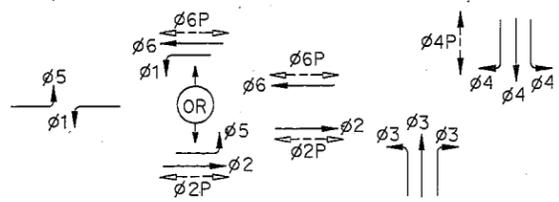
Contract No. 07- **257304**
 Resident Engineer: **AMY MAO**
 Completion Date: **12/12/07**



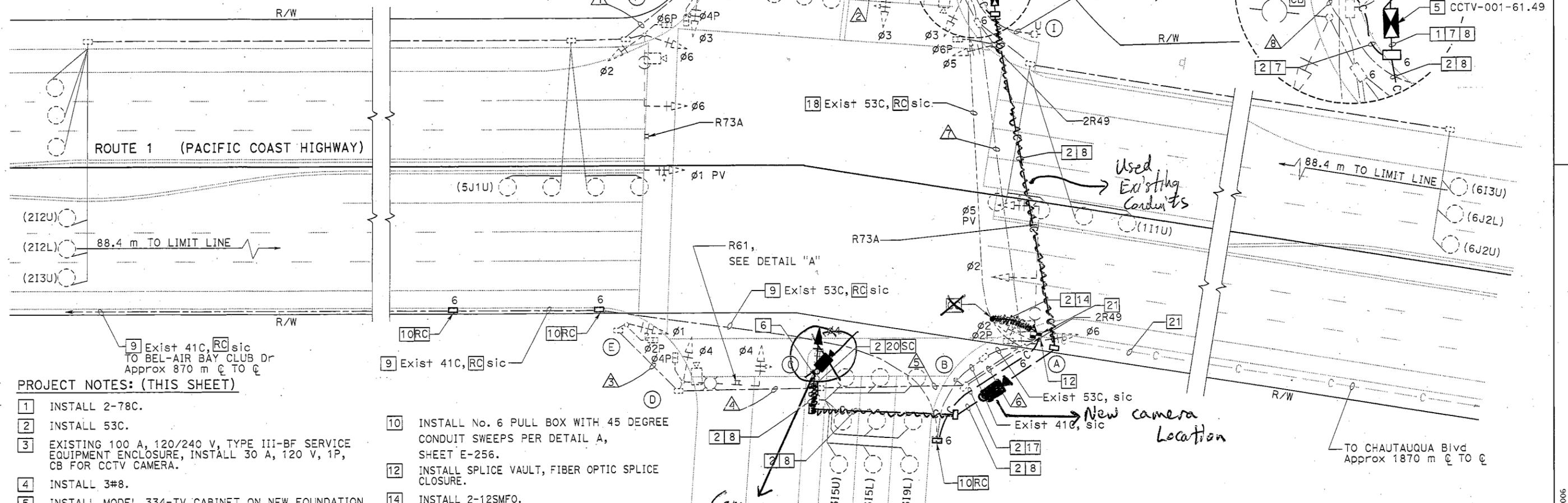
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1,105	Var	236	308

08/06
 REGISTERED ELECTRICAL ENGINEER
 9-25-06
 PLANS APPROVAL DATE
 Keene Matsuda
 No. E11758
 Exp. 9/30/06
 ELECTRICAL
 STATE OF CALIFORNIA
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.
 To get to the Caltrans web site, go to: <http://www.dot.ca.gov>
 CH2M HILL
 3 HUTTON CENTRE DRIVE, SUITE 200
 SANTA ANA, CA 92707

EXISTING SIGNAL PHASE DIAGRAM



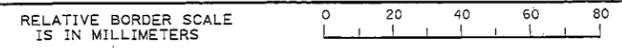
R61 SIGN
 DETAIL "A"



PROJECT NOTES: (THIS SHEET)

- INSTALL 2-78C.
- INSTALL 53C.
- EXISTING 100 A, 120/240 V, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE, INSTALL 30 A, 120 V, 1P, CB FOR CCTV CAMERA.
- INSTALL 3#8.
- INSTALL MODEL 334-TV CABINET ON NEW FOUNDATION. CABINET TO INCLUDE CCTV CAMERA AND DATA NODE EQUIPMENT, SEE SHEET E-247.
- EXISTING 1-A POLE WITH EXISTING SIGNAL HEADS TO MAINTAIN OPERATION DURING INSTALLATION OF STATE-FURNISHED CCTV-45 POLE. 1-A POLE AND EQUIPMENT AFTER INSTALLATION OF NEW STATE-FURNISHED CCTV 45 POLE. INSTALL STATE-FURNISHED CCTV-45 POLE IN EXACT LOCATION AS 1-A POLE UNLESS OTHERWISE NOTED.
- INSTALL 12SMFO.
- INSTALL COMPOSITE VIDEO CABLE.
- ADD 60SMFO (NOT A PAY ITEM ON THIS SHEET. SEE E-240 AND E-241 FOR TOTAL QUANTITIES.)
- INSTALL No. 6 PULL BOX WITH 45 DEGREE CONDUIT SWEEPS PER DETAIL A, SHEET E-256.
- INSTALL SPLICE VAULT, FIBER OPTIC SPLICE CLOSURE.
- INSTALL 2-12SMFO.
- ADD 3#8.
- ADD 12SMFO.
- INSTALL 60SMFO (NOT A PAY ITEM ON THIS SHEET. SEE E-240 AND E-241 FOR TOTAL QUANTITIES.)
- ADD 2-12SMFO.
- INSTALL 12CSC FOR VEHICLE SIGNAL HEADS AND 3CSC FOR PEDESTRIAN SIGNAL HEADS.
- FOR COMMUNICATION SYSTEM ROUTING SEE SHEET E-239.

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN
MODIFY SIGNAL AND CLOSED CIRCUIT TELEVISION CAMERA AND COMMUNICATION SYSTEM ROUTING DATA NODE (LOCATION 92) (ROUTE 1/TEMESCAL CANYON ROAD)
 SCALE 1:200
E-212

DATE PLOTTED => 27-SEP-2006
 TIME PLOTTED => 15:15
 USERNAME => trkghy
 DGN FILE => 725730u0212.dgn

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN OVERSIGHT
 YEFIM ZABEZHINSKY
 DATE REVISED BY
 4/06
 MR
 DATE REVISED
 4/06
 KM
 CHECKED BY



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST No.	SHEET No.	TOTAL SHEETS
07	LA	1,105	Var		237	308

08/06
 Keene Matsuda
 REGISTERED ELECTRICAL ENGINEER
 No. E11758
 Exp. 9/30/06
 ELECTRICAL
 STATE OF CALIFORNIA

9-25-06
 PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To get to the Caltrans web site, go to: <http://www.dot.ca.gov>

CH2M HILL
 3 HUTTON CENTRE DRIVE, SUITE 200
 SANTA ANA, CA 92707

AS-BUILT
 Contract No. 07- **257304**
 Resident Engineer: **AMY MAO**
 Completion Date: **12/12/07**

EXISTING CONDUIT AND CONDUCTOR SCHEDULE

AWG OR CABLE	CONDUCTOR RUN	CONDUIT RUN								
		1	2	3	4	5	6	7	8	9
28 CONDUCTOR CABLE	Ø1									
	Ø2									
	Ø3									
	Ø4									
	Ø5									
	Ø6									
	Ø2 PH	2	2	2	2	2	2	2	2	4
	Ø4 PH									
	Ø6 PH									
	Ø2 PPB									
	Ø4 PPB									
	Ø6 PPB									
	PPB COMMON									
	SIGNAL COM									
SPARES										
#10	LUMINAIRE	2	2	-	2	2	2	2	2	4
	TOTAL	2	2	-	2	2	2	2	2	4
2 #12 TYPE A dic	Ø1 DETECTOR	-	-	-	-	-	-	-	-	1
	Ø2 DETECTOR	3	3	-	-	-	-	-	-	3
	Ø3 DETECTOR	-	-	-	-	-	-	-	-	3
	Ø4 DETECTOR	-	4	-	-	-	-	-	-	4
	Ø5 DETECTOR	1	1	-	-	-	-	-	-	1
	Ø6 DETECTOR	-	-	-	-	-	-	-	-	3
	SAMPLING DETECTORS	3	3	-	-	-	-	-	-	3
	BICYCLE DETECTORS	-	2	-	-	-	-	-	-	2
	TOTAL	7	13	-	-	3	3	3	7	20
#8	VIDEO DETECTOR CABLE	1	1	-	1	1	1	2	2	4
	SIGNAL SERVICE	-	-	-	-	-	-	-	-	-
12 PR#19	INTERCONNECT	-	-	-	-	-	-	-	-	-
	CONDUIT SIZE (mm)	78	78	53	78	78	78	78	78	2-78

NEW POLE AND EQUIPMENT SCHEDULE

No.	TYPE	STANDARD		VEH SIG MTG		PED SIG MTG	PPB		HPS LUM	SPECIAL REQUIREMENTS
		SMA (m)	LMA (m)	MAST ARM (m)	POLE		Ø	ARROW		
Ⓒ	CCTV 45	-	-	-	SV-1-TA	-	2	↔	-	-

EXISTING POLE AND EQUIPMENT SCHEDULE

No.	TYPE	STANDARD		VEH SIG MTG		PED SIGNAL MTG	PPB		HPS LUMINAIRE (W)	STREET NAME SIGNS
		SMA (m)	LMA (m)	MAST ARM	POLE		Ø	ARROW		
Ⓐ	26-4-129	13.7	3.7	2-MAS	SV-1-T	SP-1-T	-	-	250	-
Ⓑ	PPB POST	-	-	-	-	-	2	→	-	-
Ⓒ	1-A	-	-	-	TV-1-T	-	2	↔	-	-
Ⓓ	17-2-129	6.1	3.7	MAS	SV-1-T	SP-1-T	2	↔	250	-
Ⓔ	1	-	-	-	TV-1	SP-1-T	4	→	-	-
Ⓕ	26-4-129	13.7	3.7	2-MAS	SP-1-T	SP-1-T	4	↔	250	-
Ⓖ	1-A	-	-	-	TV-1-T	SP-1-T	6	→	-	-
Ⓗ	17-2-129	6.1	3.7	MAS	SV-1-T	-	6	↔	250	-
Ⓙ	1	-	-	-	TV-1	SP-1-T	-	-	-	-

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN
MODIFY SIGNAL AND CLOSED CIRCUIT TELEVISION CAMERA AND COMMUNICATION SYSTEM ROUTING DATA NODE (LOCATION 92) (ROUTE 1/TEMESCAL CANYON ROAD)
 NO SCALE

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.



USERNAME => s123048
 DGN FILE => 725730ua213.dgn

CU 07382

EA 257301

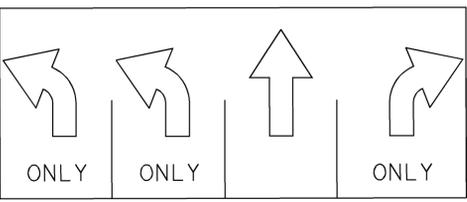
E-213

LAST REVISION 00-00-00
 DATE PLOTTED => 24-OCT-2008
 TIME PLOTTED => 14:13

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN OVERSIGHT: YEFIM ZABEZHINSKY
 CALCULATED/DESIGNED BY: YEFIM ZABEZHINSKY
 CHECKED BY: YEFIM ZABEZHINSKY
 MR: KM
 DATE: 4/06
 REVISED BY: DATE: 4/06
 REVISED BY: DATE: 4/06

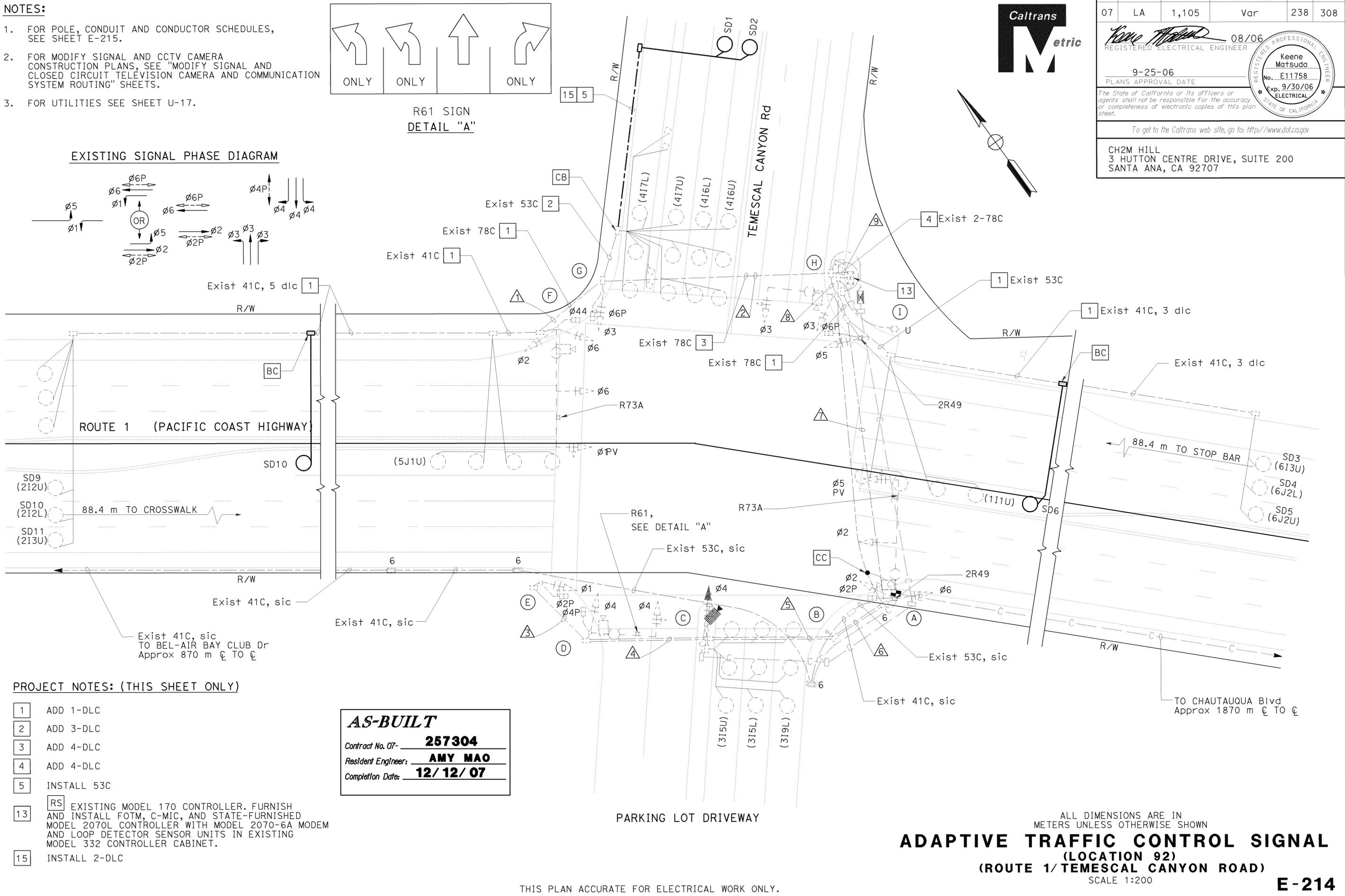
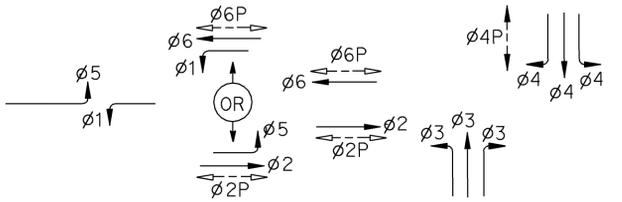
NOTES:

- FOR POLE, CONDUIT AND CONDUCTOR SCHEDULES, SEE SHEET E-215.
- FOR MODIFY SIGNAL AND CCTV CAMERA CONSTRUCTION PLANS, SEE "MODIFY SIGNAL AND CLOSED CIRCUIT TELEVISION CAMERA AND COMMUNICATION SYSTEM ROUTING" SHEETS.
- FOR UTILITIES SEE SHEET U-17.



R61 SIGN
 DETAIL "A"

EXISTING SIGNAL PHASE DIAGRAM



PROJECT NOTES: (THIS SHEET ONLY)

- 1 ADD 1-DLC
- 2 ADD 3-DLC
- 3 ADD 4-DLC
- 4 ADD 4-DLC
- 5 INSTALL 53C
- 13 **RS** EXISTING MODEL 170 CONTROLLER. FURNISH AND INSTALL FOTM, C-MIC, AND STATE-FURNISHED MODEL 2070L CONTROLLER WITH MODEL 2070-6A MODEM AND LOOP DETECTOR SENSOR UNITS IN EXISTING MODEL 332 CONTROLLER CABINET.
- 15 INSTALL 2-DLC

AS-BUILT
 Contract No. 07- **257304**
 Resident Engineer: **AMY MAO**
 Completion Date: **12/12/07**

PARKING LOT DRIVEWAY

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.



ADAPTIVE TRAFFIC CONTROL SIGNAL
 (LOCATION 92)
 (ROUTE 1/TEMESCAL CANYON ROAD)
 SCALE 1:200

DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1,105	Var		238	308

Caltrans
Metric

Keene Matsuda
 REGISTERED ELECTRICAL ENGINEER
 No. E11758
 Exp. 9/30/06
 STATE OF CALIFORNIA

9-25-06
 PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

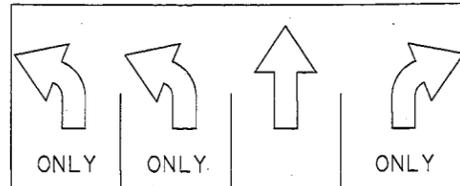
To get to the Caltrans web site, go to: <http://www.dot.ca.gov>

CH2M HILL
 3 HUTTON CENTRE DRIVE, SUITE 200
 SANTA ANA, CA 92707

LAST REVISION: 00-00-00
 DATE PLOTTED => 24-OCT-2008
 TIME PLOTTED => 14:13

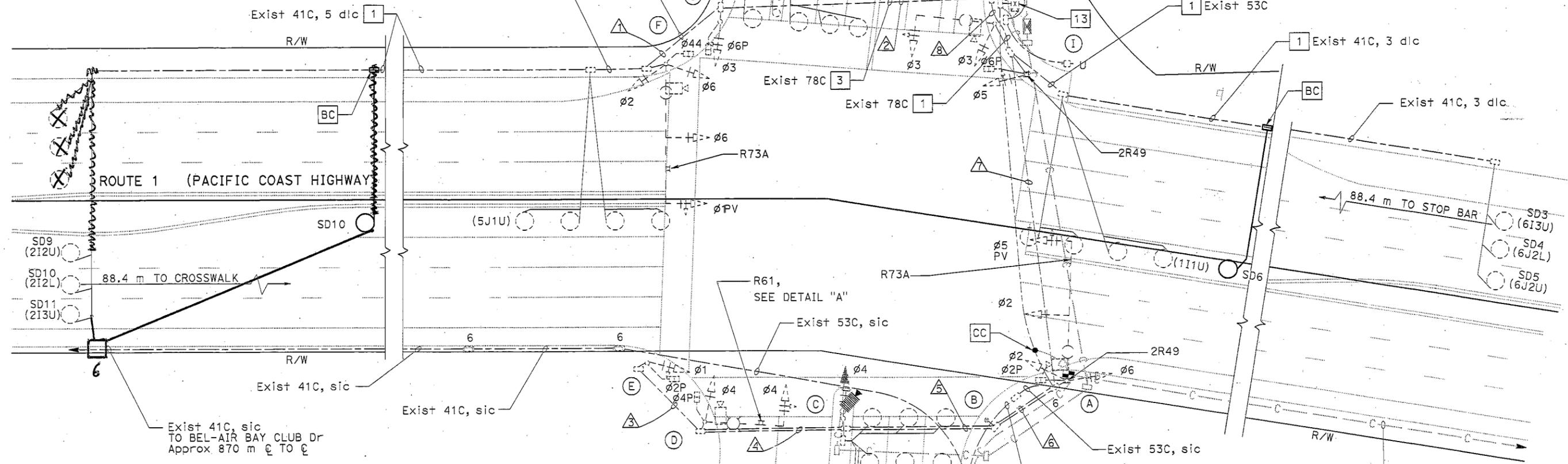
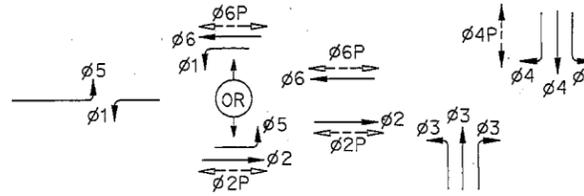
NOTES:

- FOR POLE, CONDUIT AND CONDUCTOR SCHEDULES, SEE SHEET E-215.
- FOR MODIFY SIGNAL AND CCTV CAMERA CONSTRUCTION PLANS, SEE "MODIFY SIGNAL AND CLOSED CIRCUIT TELEVISION CAMERA AND COMMUNICATION SYSTEM ROUTING" SHEETS.
- FOR UTILITIES SEE SHEET U-17.



R61 SIGN
DETAIL "A"

EXISTING SIGNAL PHASE DIAGRAM



PROJECT NOTES: (THIS SHEET ONLY)

- 1 ADD 1-DLC
- 2 ADD 3-DLC
- 3 ADD 4-DLC
- 4 ADD 4-DLC
- 5 INSTALL 53C
- 13 [RS] EXISTING MODEL 170 CONTROLLER. FURNISH AND INSTALL FOTM, C-MIC, AND STATE-FURNISHED MODEL 2070L CONTROLLER WITH MODEL 2070-6A MODEM AND LOOP DETECTOR SENSOR UNITS IN EXISTING MODEL 332 CONTROLLER CABINET.
- 15 INSTALL 2-DLC

AS-BUILT
 Contract No. 07- **257304**
 Resident Engineer: **AMY MAO**
 Completion Date: **12/ 12/ 07**



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1,105	Var	238	308

08/06
 REGISTERED ELECTRICAL ENGINEER
 Keene Matsuda
 No. E11758
 Exp. 9/30/06
 REGISTERED PROFESSIONAL ENGINEER
 ELECTRICAL
 STATE OF CALIFORNIA

9-25-06
 PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To get to the Caltrans web site, go to: <http://www.dot.ca.gov>

CH2M HILL
 3 HUTTON CENTRE DRIVE, SUITE 200
 SANTA ANA, CA 92707

ADAPTIVE TRAFFIC CONTROL SIGNAL
 (LOCATION 92)
 (ROUTE 1/TEMESCAL CANYON ROAD)
 SCALE 1:200

E-214

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.



USERNAME => trkathy
 DGN FILE => 725730uo214.dgn

CU 07382 EA 257301

LAST REVISION DATE PLOTTED => 27-SEP-2006
 00-00-00 TIME PLOTTED => 15:16

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Caltrans

DESIGN OVERSIGHT
 YEFIM ZABEZHINSKY

CALCULATED/DESIGNED BY
 CHECKED BY

MR KM

DATE REVISED BY
 DATE REVISED

DATE 4/06

DATE 4/06



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1,105	Var	239	308

08/06
 REGISTERED ELECTRICAL ENGINEER
 Keene Matsuda
 No. E11758
 Exp. 9/30/06
 ELECTRICAL
 STATE OF CALIFORNIA

9-25-06
 PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To get to the Caltrans web site, go to: <http://www.dot.ca.gov>

CH2M HILL
 3 HUTTON CENTRE DRIVE, SUITE 200
 SANTA ANA, CA 92707

AS-BUILT
 Contract No. 07- **257304**
 Resident Engineer: **AMY MAO**
 Completion Date: **12/12/07**

EXISTING CONDUIT AND CONDUCTOR SCHEDULE

AWG OR CABLE	CONDUCTOR RUN	CONDUIT RUN								
		1	2	3	4	5	6	7	8	9
28 CONDUCTOR CABLE	Ø1	3	3	3	3	3	3	3	3	6
	Ø2	3	3	-	-	-	-	3	3	6
	Ø3	-	3	-	-	-	-	-	-	3
	Ø4	-	-	-	3	3	3	3	3	3
	Ø5	-	-	-	-	-	-	3	3	3
	Ø6	3	3	-	-	-	-	3	3	6
	Ø2 PH	-	-	2	2	2	2	2	2	2
	Ø4 PH	-	2	-	2	2	2	2	2	4
	Ø6 PH	2	2	-	-	-	-	-	-	4
	Ø2 PPB	-	-	-	2	2	2	2	2	2
	Ø4 PPB	2	2	2	2	2	2	2	2	4
	Ø6 PPB	-	2	-	-	-	-	-	-	2
	PPB COMMON	1	1	1	1	1	1	1	1	2
	SIGNAL COM									
	SPARES	3	3	3	3	3	3	3	3	6
TOTAL	17	24	14	18	18	18	27	29	53	
#10	LUMINAIRE	2	2	-	2	2	2	2	2	4
	TOTAL	2	2	-	2	2	2	2	2	4
2 #12 TYPE A dlc	Ø1 DETECTOR	-	-	-	-	-	-	-	1	1
	Ø2 DETECTOR	3	3	-	-	-	-	-	-	3
	Ø3 DETECTOR	-	-	-	-	3	3	3	3	3
	Ø4 DETECTOR	-	4	-	-	-	-	-	-	4
	Ø5 DETECTOR	1	1	-	-	-	-	-	-	1
	Ø6 DETECTOR	-	-	-	-	-	-	-	3	3
	SAMPLING DETECTORS	3	3	-	-	-	-	-	-	3
	BICYCLE DETECTORS	-	2	-	-	-	-	-	-	2
TOTAL	7	13	-	-	3	3	3	7	20	
#8	VIDEO DETECTOR CABLE	1	1	-	1	1	1	2	2	4
#8	SIGNAL SERVICE	-	-	-	-	-	-	-	-	-
12 PR #19	INTERCONNECT	-	-	-	-	-	-	-	-	-
	CONDUIT SIZE (mm)	78	78	53	78	78	78	78	78	2-78

EXISTING POLE AND EQUIPMENT SCHEDULE

No.	TYPE	STANDARD		VEH SIG MTG		PED SIGNAL MTG	PPB		HPS LUMINAIRE (W)	STREET NAME SIGNS
		SMA (m)	LMA (m)	MAST ARM	POLE		Ø	ARROW		
Ⓐ	26-4-129	13.7	3.7	2-MAS	SV-2-T	SP-1-T	-	-	250	-
Ⓑ	PPB POST	-	-	-	-	-	2	→	-	-
Ⓒ	1-A	-	-	-	TV-1-T	-	2	→	-	-
Ⓓ	17-2-129	6.1	3.7	MAS	SV-1-T	SP-1-T	2	→	250	-
Ⓔ	1	-	-	-	TV-1	SP-1-T	4	→	-	-
Ⓕ	19	9.1	3.7	2-MAS	SV-2-T	SP-1-T	4	→	250	-
Ⓖ	1-A	-	-	-	TV-1-T	SP-1-T	6	→	-	-
Ⓗ	17-2-129	-	3.7	MAS	SV-1-T	-	6	→	250	-
Ⓘ	1	-	-	-	TV-1	SP-1-T	-	-	-	-

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN
ADAPTIVE TRAFFIC CONTROL SIGNAL
 (LOCATION 92)
 (ROUTE 1/TEMESCAL CANYON ROAD)
 NO SCALE

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.



USERNAME => s123048
 DGN FILE => T257300a215.dgn

CU 07382

EA 257301

E-215

LAST REVISION: 00-00-00
 DATE PLOTTED => 24-OCT-2008
 TIME PLOTTED => 14:13

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN OVERSIGHT
 YEFIM ZABEZHINSKY
 MR KM
 REVISIONS:
 4/06
 4/06
 DATE
 REVISIONS
 BY
 DATE
 REVISIONS
 BY
 DATE

EXISTING CONDUCTOR AND CONDUIT SCHEDULE

AWG	CONDUCTOR RUN	CONDUIT RUN				
		1	2	3	4	5
#14	∅2	-	-	3	3	3
	∅4	3	3	-	3	3
	∅6	3	3	3	3	3
	∅8	-	-	-	-	-
	∅2P	-	-	2	2	2
	∅4P	2	2	2	2	2
	∅6P	-	2	-	-	-
	∅8P	-	-	-	-	-
	∅2PPB	-	-	-	-	-
	∅4PPB	2	2	2	2	2
	∅6PPB	-	-	-	-	-
	∅8PPB	-	-	-	-	-
	SPARES	3	3	3	3	3
	TOTAL	13	15	15	18	18
2#12 TYPE A dlc	∅2 DETECTORS	-	-	3	3	3
	∅4 DETECTORS	-	3	2	2	2
	∅6 DETECTORS	-	-	-	-	-
	∅8 DETECTORS	-	-	-	-	-
TOTAL	-	3	5	5	5	
#10	INTERCONNECT	-	-	-	-	-
	SIGNAL COMMON	1	1	1	1	1
	LUMINAIRE	2	2	-	-	2
TOTAL	3	3	1	1	3	
#8	SERVICE	-	-	-	-	-
	CONDUIT SIZE (mm)	53	53	53	53	53

PROJECT NOTES: (THIS SHEET ONLY)

- 1 ADD 1-DLC
- 2 ADD 2-DLC
- 5 INSTALL 53C
- 6 ADD 60SMFO (NOT A PAY ITEM ON THIS SHEET. SEE SHEET E-241 FOR TOTAL QUANTITIES.)
- 7 ADD 2-12SMFO
- 8 ADD 12SMFO
- 10 INSTALL No. 6(E) PULL BOX WITH 45 DEGREE CONDUIT SWEEPS PER DETAIL A ON SHEET E-256, FIBER OPTIC SPLICE CLOSURE.
- 11 INSTALL No. 6 PULL BOX WITH 45 DEGREE CONDUIT SWEEPS PER DETAIL A, SHEET E-256.
- 13 **RS** EXISTING MODEL 170 CONTROLLER. FURNISH AND INSTALL FOTM, C-MIC, AND STATE-FURNISHED MODEL 2070L CONTROLLER WITH MODEL 2070-6A MODEM AND LOOP DETECTOR SENSOR UNITS IN EXISTING MODEL 332 CONTROLLER CABINET.
- 19 INSTALL 60SMFO (NOT A PAY ITEM ON THIS SHEET. SEE SHEET E-241 FOR TOTAL QUANTITIES.)

AS-BUILT

Contract No. 07- **257304**
 Resident Engineer: **AMY MAO**
 Completion Date: **12/12/07**



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1,105	Var	240	308

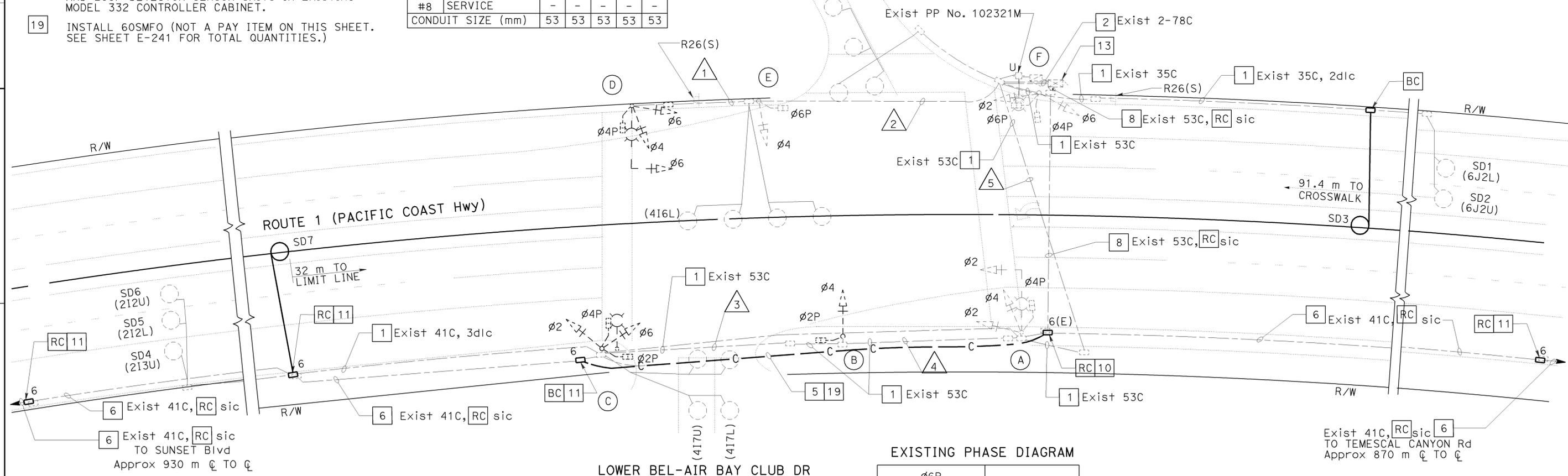
08/06
 REGISTERED ELECTRICAL ENGINEER
 Keene Matsuda
 No. E11758
 Exp. 9/30/06
 ELECTRICAL
 STATE OF CALIFORNIA

9-25-06
 PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To get to the Caltrans web site, go to: <http://www.dot.ca.gov>

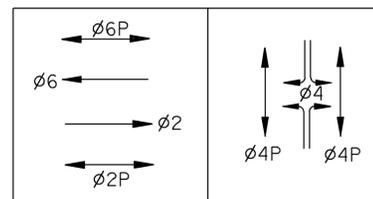
CH2M HILL
 3 HUTTON CENTRE DRIVE, SUITE 200
 SANTA ANA, CA 92707



EXISTING POLE AND EQUIPMENT SCHEDULE

No.	TYPE	STANDARD		VEH SIG MTG		PED SIGNAL MTG	PPB ∅	HPS LUMINAIRE (W)	SPECIAL REQUIREMENTS
		SMA (m)	LMA (m)	MAST ARM	POLE				
(A)	17-2-129	6.1	3.7	MAS	SV-2-TB	SP-1-T	4	200	
(B)	1-A				TV-1	SP-1-T			
(C)	1-A				TV-2-T	SP-2-T	4		
(D)	17-2-129	6.1	3.7	MAS	SV-2-TB	SP-1-T	4	200	
(E)	1-A				TV-1	SP-1-T			
(F)	1-A				TV-2-T	SP-2-T	4		

EXISTING PHASE DIAGRAM



THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.



ADAPTIVE TRAFFIC CONTROL SIGNAL AND COMMUNICATION SYSTEM ROUTING

(LOCATION 93)
 (ROUTE 1/BEL-AIR BAY CLUB DRIVE)

SCALE 1:200

E-216

LAST REVISION DATE PLOTTED => 24-OCT-2008
 00-00-00 TIME PLOTTED => 14:13

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN OVERSIGHT: YEFIM ZABEZHINSKY
 CALCULATED/DESIGNED BY: [Blank]
 CHECKED BY: [Blank]
 MR: [Blank] KM: [Blank]
 DATE REVISED BY: [Blank] DATE REVISED: [Blank]
 DATE 4/06 DATE 4/06



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1,105	Var	240	A308

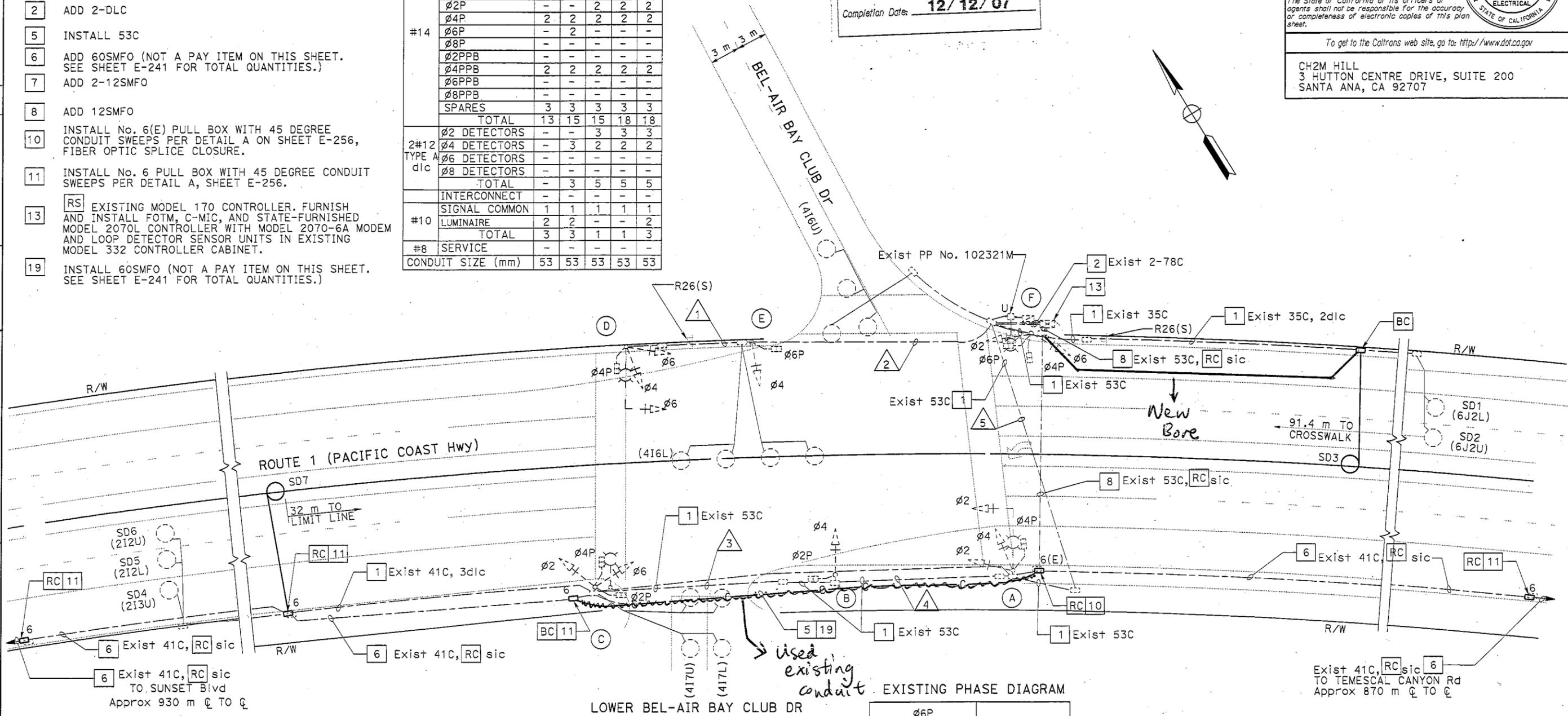
08/06
 REGISTERED ELECTRICAL ENGINEER
 Keene Matsuda
 No. E11758
 Exp. 9/30/06
 STATE OF CALIFORNIA
 REGISTERED PROFESSIONAL ENGINEER
 PLANS APPROVAL DATE: 9-25-06
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.
 To get to the Caltrans web site, go to: <http://www.dot.ca.gov>
 CH2M HILL
 3 HUTTON CENTRE DRIVE, SUITE 200
 SANTA ANA, CA 92707

EXISTING CONDUCTOR AND CONDUIT SCHEDULE

AWG	CONDUCTOR RUN	CONDUIT RUN				
		1	2	3	4	5
#14	Ø2	-	-	3	3	3
	Ø4	3	3	-	3	3
	Ø6	3	3	3	3	3
	Ø8	-	-	-	-	-
	Ø2P	-	-	2	2	2
	Ø4P	2	2	2	2	2
	Ø6P	-	2	-	-	-
	Ø8P	-	-	-	-	-
	Ø2PPB	-	-	-	-	-
	Ø4PPB	2	2	2	2	2
	Ø6PPB	-	-	-	-	-
	Ø8PPB	-	-	-	-	-
	SPARES	3	3	3	3	3
	TOTAL	13	15	15	18	18
2#12 TYPE A dlc	Ø2 DETECTORS	-	-	3	3	3
	Ø4 DETECTORS	-	3	2	2	2
	Ø6 DETECTORS	-	-	-	-	-
	Ø8 DETECTORS	-	-	-	-	-
	TOTAL	-	3	5	5	5
#10	INTERCONNECT	-	-	-	-	-
	SIGNAL COMMON	1	1	1	1	1
	LUMINAIRE	2	2	-	-	2
	TOTAL	3	3	1	1	3
#8	SERVICE	-	-	-	-	-
	CONDUIT SIZE (mm)	53	53	53	53	53

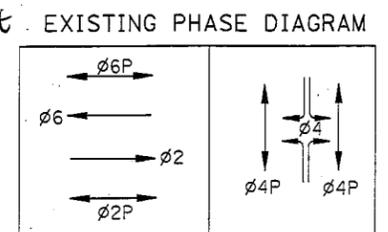
AS-BUILT
 Contract No. 07-257304
 Resident Engineer: AMY MAO
 Completion Date: 12/12/07

- PROJECT NOTES: (THIS SHEET ONLY)
- ADD 1-DLC
 - ADD 2-DLC
 - INSTALL 53C
 - ADD 60SMFO (NOT A PAY ITEM ON THIS SHEET. SEE SHEET E-241 FOR TOTAL QUANTITIES.)
 - ADD 2-12SMFO
 - ADD 12SMFO
 - INSTALL No. 6(E) PULL BOX WITH 45 DEGREE CONDUIT SWEEPS PER DETAIL A ON SHEET E-256, FIBER OPTIC SPLICE CLOSURE.
 - INSTALL No. 6 PULL BOX WITH 45 DEGREE CONDUIT SWEEPS PER DETAIL A, SHEET E-256.
 - EXISTING MODEL 170 CONTROLLER. FURNISH AND INSTALL FOTM, C-MIC, AND STATE-FURNISHED MODEL 2070L CONTROLLER WITH MODEL 2070-6A MODEM AND LOOP DETECTOR SENSOR UNITS IN EXISTING MODEL 332 CONTROLLER CABINET.
 - INSTALL 60SMFO (NOT A PAY ITEM ON THIS SHEET. SEE SHEET E-241 FOR TOTAL QUANTITIES.)



EXISTING POLE AND EQUIPMENT SCHEDULE

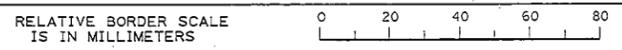
No.	STANDARD TYPE	SMA (m)	LMA (m)	VEH SIG MTG		PED SIGNAL MTG	PPB Ø	HPS LUMINAIRE (W)	SPECIAL REQUIREMENTS
				MAST ARM	POLE				
A	17-2-129	6.1	3.7	MAS	SV-2-TB	SP-1-T	4	200	
B	1-A				TV-1	SP-1-T			
C	1-A				TV-2-T	SP-2-T	4		
D	17-2-129	6.1	3.7	MAS	SV-2-TB	SP-1-T	4	200	
E	1-A				TV-1	SP-1-T			
F	1-A				TV-2-T	SP-2-T	4		



ADAPTIVE TRAFFIC CONTROL SIGNAL AND COMMUNICATION SYSTEM ROUTING
 (LOCATION 93)
 (ROUTE 1/BEL-AIR BAY CLUB DRIVE)

SCALE 1:200
E-216

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.



USERNAME => trrkathy
 DGN FILE => 725730u216.dgn

CU 07382

EA 257301

LAST REVISION: 00-00-00
 DATE PLOTTED => 27-SEP-2006
 TIME PLOTTED => 16:06

DATE REVISED BY: 4/06 4/06 DATE REVISED: 4/06 4/06
 MR: KM
 CALCULATED/DESIGNED BY: YEFIM ZABEZHINSKY
 CHECKED BY:
 DESIGN OVERSIGHT: YEFIM ZABEZHINSKY
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Caltrans

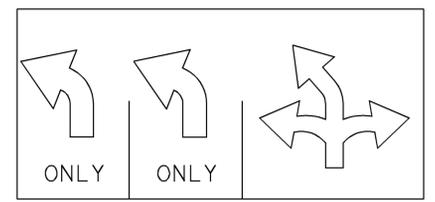
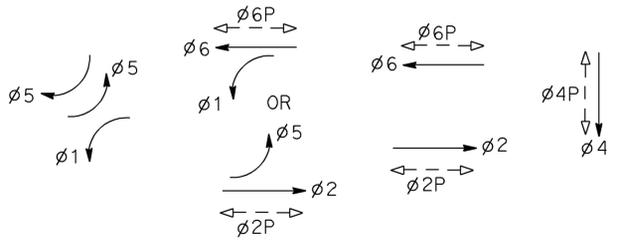
NOTES:

- FOR POLE, CONDUIT AND CONDUCTOR SCHEDULES, SEE SHEET E-218.
- SEE SHEET E-245 FOR INSTALLATION OF CCTV CAMERA AND SIGNAL EQUIPMENT ON STATE-FURNISHED CCTV 45 POLE.

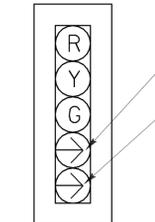
PROJECT NOTES: (THIS SHEET)

- INSTALL 2-78C.
- INSTALL 53C.
- EXISTING 100 A, 120/240 V, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE, INSTALL 30 A, 120 V, 1P, CB FOR CCTV CAMERA.
- INSTALL 3#8.
- INSTALL MODEL 334-TV CABINET ON NEW FOUNDATION. CABINET TO INCLUDE CCTV CAMERA EQUIPMENT. SEE SHEET E-246.
- INSTALL 12SMFO.
- INSTALL COMPOSITE VIDEO CABLE.
- ADD 60SMFO (NOT A PAY ITEM ON THIS SHEET. SEE E-240 AND E-241 FOR TOTAL QUANTITIES.)
- INSTALL No. 6 PULL BOX WITH 45 DEGREE CONDUIT SWEEP PER DETAIL A, SHEET E-256.
- INSTALL SPLICE VAULT, FIBER OPTIC SPLICE CLOSURE.
- INSTALL 2-12SMFO.
- ADD 3#8.
- ADD 12SMFO.
- ADD 2-12SMFO.

EXISTING PHASE DIAGRAM



DETAIL "A"



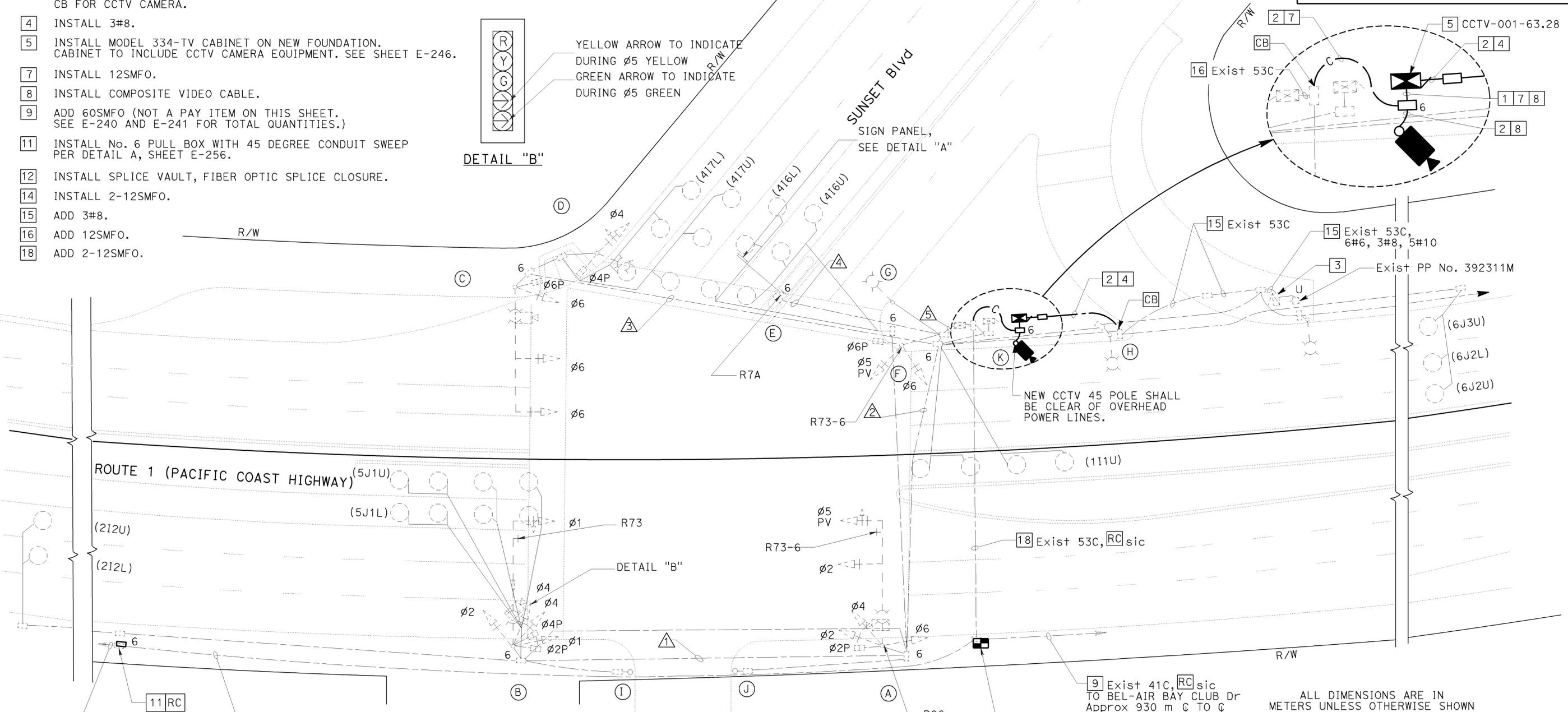
DETAIL "B"

YELLOW ARROW TO INDICATE DURING phi 5 YELLOW
 GREEN ARROW TO INDICATE DURING phi 5 GREEN



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1,105	Var	241	308

08/06
 REGISTERED ELECTRICAL ENGINEER
 9-25-06
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.
 To get to the Caltrans web site, go to: <http://www.dot.ca.gov>
 CH2M HILL
 3 HUTTON CENTRE DRIVE, SUITE 200
 SANTA ANA, CA 92707



9 Exist 41C, RC sic TO PORTO MARINA WAY Approx 790 m C TO C

9 Exist 41C, RC sic

9 Exist 41C, RC sic TO BEL-AIR BAY CLUB Dr Approx 930 m C TO C

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

AS-BUILT
 Contract No. 07- **257304**
 Resident Engineer: **AMY MAO**
 Completion Date: **12/12/07**

MODIFY SIGNAL AND CLOSED CIRCUIT TELEVISION CAMERA AND COMMUNICATION SYSTEM ROUTING (LOCATION 94) (ROUTE 1/SUNSET BOULEVARD) E-217
 SCALE 1:200

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

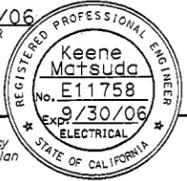


USERNAME => s123048
 DGN FILE => 725730ua217.dgn

LAST REVISION: DATE PLOTTED => 24-OCT-2008
 00-00-00 TIME PLOTTED => 14:13

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET TOTAL SHEETS
07	LA	1,105	Var	241/308

08/06
 REGISTERED ELECTRICAL ENGINEER
 9-25-06
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.
 To get to the Caltrans web site, go to: <http://www.dot.ca.gov>



CH2M HILL
 3 HUTTON CENTRE DRIVE, SUITE 200
 SANTA ANA, CA 92707

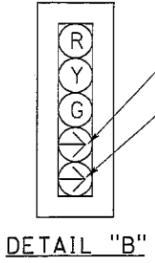
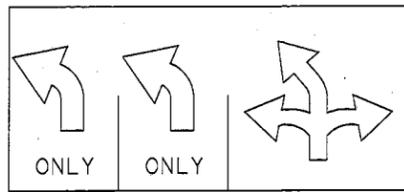
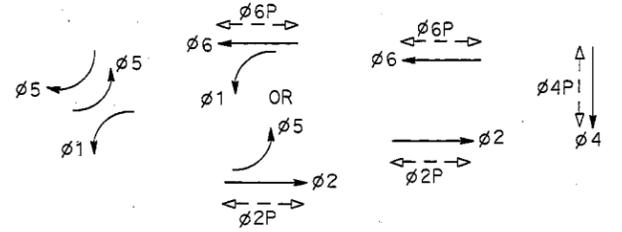
NOTES:

- FOR POLE, CONDUIT AND CONDUCTOR SCHEDULES, SEE SHEET E-218.
- SEE SHEET E-245 FOR INSTALLATION OF CCTV CAMERA AND SIGNAL EQUIPMENT ON STATE-FURNISHED CCTV 45 POLE.

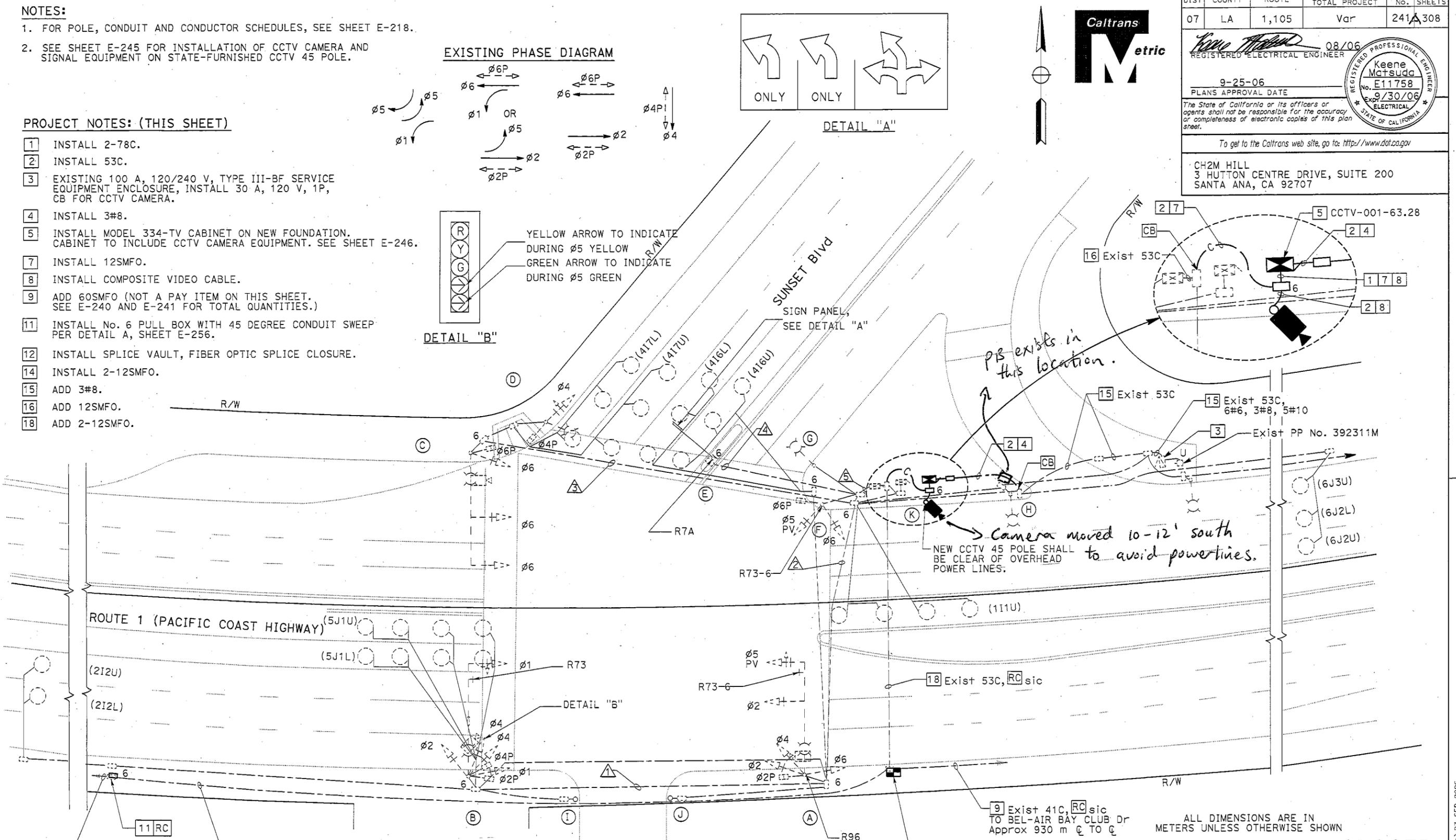
PROJECT NOTES: (THIS SHEET)

- INSTALL 2-78C.
- INSTALL 53C.
- EXISTING 100 A, 120/240 V, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE, INSTALL 30 A, 120 V, 1P, CB FOR CCTV CAMERA.
- INSTALL 3#8.
- INSTALL MODEL 334-TV CABINET ON NEW FOUNDATION. CABINET TO INCLUDE CCTV CAMERA EQUIPMENT. SEE SHEET E-246.
- INSTALL 12SMFO.
- INSTALL COMPOSITE VIDEO CABLE.
- ADD 60SMFO (NOT A PAY ITEM ON THIS SHEET. SEE E-240 AND E-241 FOR TOTAL QUANTITIES.)
- INSTALL No. 6 PULL BOX WITH 45 DEGREE CONDUIT SWEEP PER DETAIL A, SHEET E-256.
- INSTALL SPLICE VAULT, FIBER OPTIC SPLICE CLOSURE.
- INSTALL 2-12SMFO.
- ADD 3#8.
- ADD 12SMFO.
- ADD 2-12SMFO.

EXISTING PHASE DIAGRAM



YELLOW ARROW TO INDICATE DURING ø5 YELLOW
 GREEN ARROW TO INDICATE DURING ø5 GREEN



9 Exist 41C, RC sic TO PORTO MARINA WAY Approx 790 m C TO C

AS-BUILT
 Contract No. 07- 257304
 Resident Engineer: AMY MAO
 Completion Date: 12/ 12/ 07

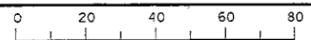
9 Exist 41C, RC sic TO BEL-AIR BAY CLUB Dr Approx 930 m C TO C

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MODIFY SIGNAL AND CLOSED CIRCUIT TELEVISION CAMERA AND COMMUNICATION SYSTEM ROUTING

(LOCATION 94)
 (ROUTE 1/ SUNSET BOULEVARD) E-217
 SCALE 1:200

RELATIVE BORDER SCALE IS IN MILLIMETERS



USERNAME => trkathy
 DGN FILE => 7257300d217.dgn

CU 07382

EA 257301

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DESIGN OVERSIGHT
 YEFIM ZABEZHINSKY
 DATE REVISIONS BY DATE REVISED
 4/06 4/06
 MR KM
 CALCULATED/DESIGNED BY CHECKED BY
 Caltrans

DATE PLOTTED => 27-SEP-2006
 TIME PLOTTED => 16:06
 LAST REVISION 00-00-00



DIST	COUNTY	ROUTE	KILOMETER TOTAL	POST PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1,105	Var		242	308

08/06
 REGISTERED ELECTRICAL ENGINEER
 9-25-06
 PLANS APPROVAL DATE
 Keene Matsuda
 No. E11758
 Exp. 9/30/06
 ELECTRICAL
 STATE OF CALIFORNIA
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.
 To get to the Caltrans web site, go to: <http://www.dot.ca.gov>
 CH2M HILL
 3 HUTTON CENTRE DRIVE, SUITE 200
 SANTA ANA, CA 92707

EXISTING CONDUIT AND CONDUCTOR SCHEDULE

AWG OR CABLE	CONDUCTOR RUN	CONDUIT RUN				
		▲	▲	▲	▲	▲
28 CONDUCTOR CABLE	ø1					
	ø2					
	SPECIAL GREEN AND YELLOW ARROW					
	ø4					
	ø5					
	ø6					
	ø2 P	2	2	2	1	4
	ø4 P					
	ø6 P					
	ø2 PPB					
	ø4 PPB					
	ø6 PPB					
	SPARES					
	TOTAL					
2 #12 CABLE	ø1 DETECTORS	-	-	-	-	1
	ø2 DETECTORS	2	2	-	-	2
	ø4 DETECTORS	-	-	2	-	4
	ø5 DETECTORS	2	2	-	-	2
	ø6 DETECTORS	-	-	-	-	3
TOTAL	4	4	2	-	12	
12 PR #19	INTERCONNECT	-	-	-	-	-
#12	SIGN LIGHTING	-	-	-	2	-
	INTERNALLY ILLUMINATED STREET NAME SIGN	-	2	2	2	-
TOTAL	-	2	2	4	-	
#10	SIGNAL COMMON	1	1	1	1	1
#8	LUMINAIRE	2	2	2	-	-
	SERVICE	-	-	-	-	2
	VIDEO DETECTOR CABLE	1	2	1	-	3
	CONDUIT SIZE (mm)	78	78	78	78	2-78

AS-BUILT
 Contract No. 07- **257304**
 Resident Engineer: **AMY MAO**
 Completion Date: **12/12/07**

NEW POLE AND EQUIPMENT SCHEDULE

No.	TYPE	STANDARD		VEH SIG MTG		PED SIG MTG	PPB		HPS LUM	SPECIAL REQUIREMENTS
		SMA (m)	LMA (m)	MAST ARM (m)	POLE		ø	ARROW		
(K)	CCTV 45	-	-	-	-	-	-	-	-	-

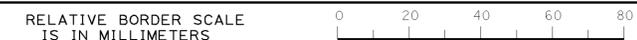
EXISTING POLE AND EQUIPMENT SCHEDULE

No.	TYPE	STANDARD		VEH SIG MTG		PED SIG MTG	PPB			HPS LUMINAIRE (W)	STREET NAME SIGN	SPECIAL REQUIREMENTS
		SMA (m)	LMA (m)	MAST ARM (m)	POLE		ø	QUAD	ARROW			
(A)	26-4-113	12.2	3.7	2 - MAS	SV-1-T SV-2-TB	SP-1-T	-	-	-	250	SUNSET BLVD (IISNS)	-
(B)	26-4-113	12.2	3.7	1 - MAS	SV-1-T SV-3-TB	SP-2-T	4	-	←	250	SUNSET BLVD (IISNS)	-
(C)	26-4-113	12.2	3.7	2 - MAS	SV-1-T	SP-1-T	4	-	→	250	-	-
(D)	15	-	3.7	-	SV-1-T	SP-1-T	6	-	→	250	-	-
(E)	SIGN POST	-	-	-	-	-	6	-	↔	-	-	-
(F)	15	-	3.7	-	SV-2-TB	SP-1-T	6	-	←	250	-	-
(G)	15	-	3.7	-	-	-	-	-	-	250	-	-
(H)	15	-	3.7	-	-	-	-	-	-	250	-	-
(I)	PPB POST	-	-	-	-	-	2	-	→	-	-	-
(J)	PPB POST	-	-	-	-	-	2	-	←	-	-	-

IISNS = INTERNALLY ILLUMINATED STREET NAME SIGN

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN
MODIFY SIGNAL AND CLOSED CIRCUIT TELEVISION CAMERA AND COMMUNICATION SYSTEM ROUTING (LOCATION 94) (ROUTE 1/SUNSET BOULEVARD)
 NO SCALE **E-218**

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.



USERNAME => s123048
 DGN FILE => 725730uq218.dgn

CU 07382

EA 257301

LAST REVISION: DATE PLOTTED => 24-OCT-2008
 TIME PLOTTED => 14:13

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

DESIGN OVERSIGHT
 YEFIM ZABEZHINSKY

REVISOR
 DATE
 MR
 KM

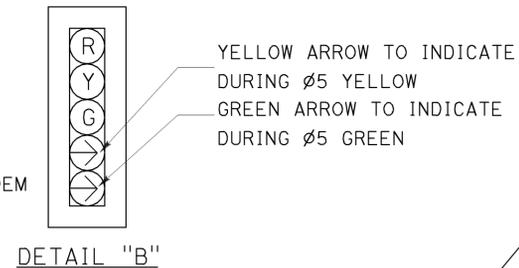
REVISOR
 DATE
 MR
 KM

NOTES:

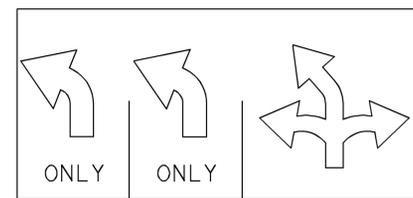
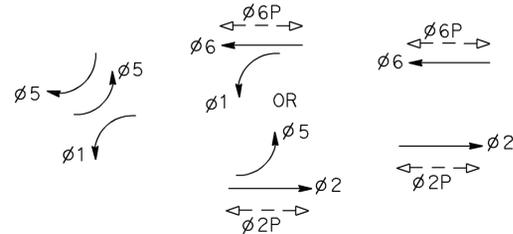
- FOR POLE, CONDUIT AND CONDUCTOR SCHEDULES, SEE SHEET E-220.
- FOR MODIFY SIGNAL AND CCTV CAMERA CONSTRUCTION PLANS, SEE "MODIFY SIGNAL AND CLOSED CIRCUIT TELEVISION CAMERA AND COMMUNICATION SYSTEM ROUTING" SHEETS.
- FOR UTILITIES SEE SHEET U-18.

PROJECT NOTES: (THIS SHEET)

- 2 ADD 2-DLC
- 3 ADD 3-DLC
- 5 INSTALL 53C.
- 6 ADD 6-DLC
- 13 **RS** EXISTING MODEL 170 CONTROLLER. FURNISH AND INSTALL FOTM, C-MIC, AND STATE-FURNISHED MODEL 2070L CONTROLLER WITH MODEL 2070-6A MODEM AND LOOP DETECTOR SENSOR UNITS IN EXISTING MODEL 332 CONTROLLER CABINET.
- 15 INSTALL 1-DLC
- 16 INSTALL 3-DLC



EXISTING PHASE DIAGRAM



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1,105	Var	243	308

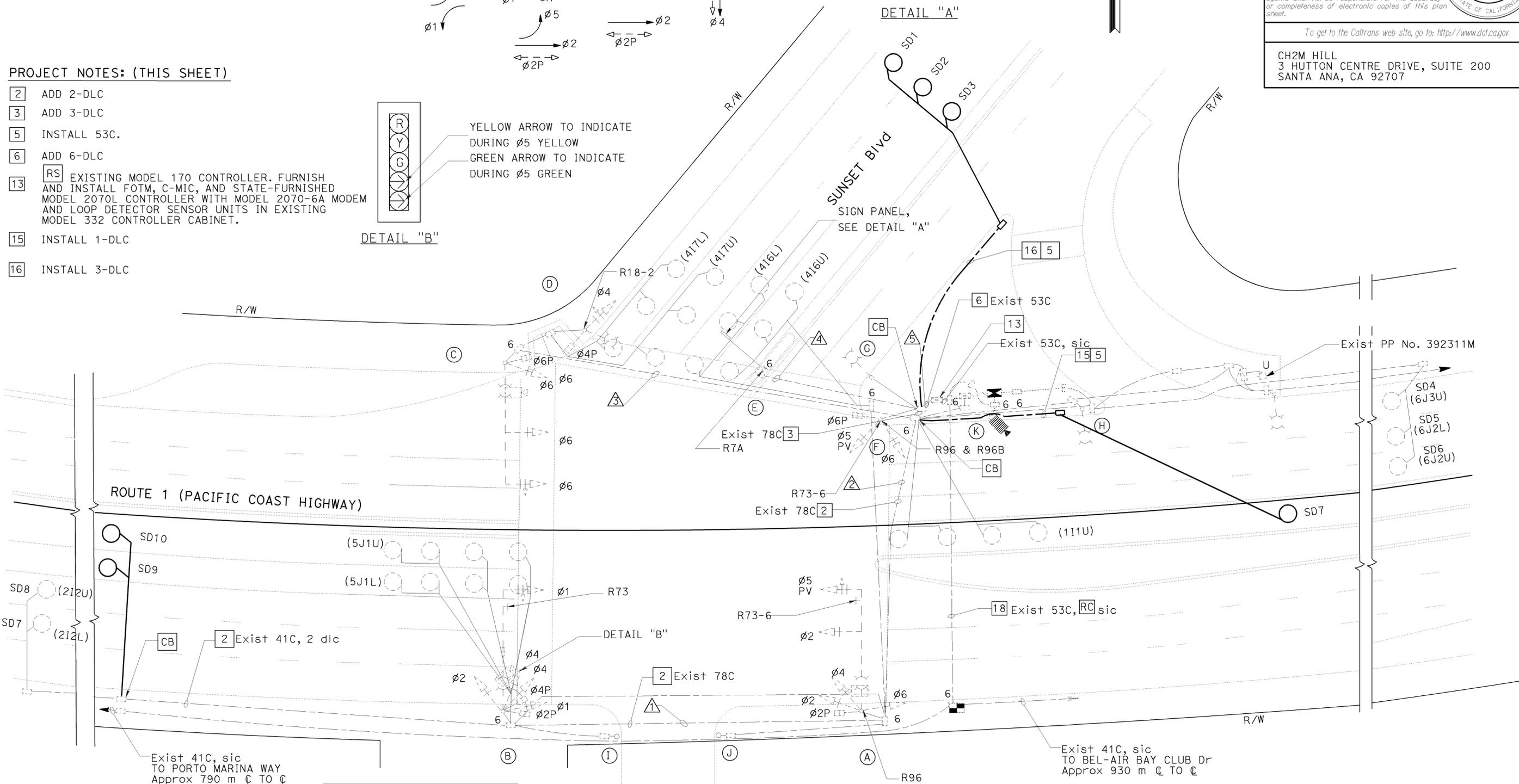
08/06
 REGISTERED ELECTRICAL ENGINEER
 Keene Matsuda
 No. E11758
 Exp. 9/30/06
 ELECTRICAL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE: 9-25-06

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To get to the Caltrans web site, go to: <http://www.dot.ca.gov>

CH2M HILL
 3 HUTTON CENTRE DRIVE, SUITE 200
 SANTA ANA, CA 92707



AS-BUILT
 Contract No. 07- **257304**
 Resident Engineer: **AMY MAO**
 Completion Date: **12/ 12/ 07**

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN
ADAPTIVE TRAFFIC CONTROL SIGNAL
 (LOCATION 94)
 (ROUTE 1/ SUNSET BOULEVARD)
 SCALE 1:200

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.



USERNAME => s123048
 DGN FILE => 725730ua219.dgn

CU 07382 EA 257301

E-219

LAST REVISION: 00-00-00
 DATE PLOTTED => 24-OCT-2008
 TIME PLOTTED => 14:13



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1,105	Var	244	308

08/06
 Keene Matsuda
 REGISTERED ELECTRICAL ENGINEER

9-25-06
 PLANS APPROVAL DATE

Keene Matsuda
 No. E11758
 Exp. 9/30/06
 REGISTERED PROFESSIONAL ENGINEER
 ELECTRICAL
 STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To get to the Caltrans web site, go to: <http://www.dot.ca.gov>

CH2M HILL
 3 HUTTON CENTRE DRIVE, SUITE 200
 SANTA ANA, CA 92707

EXISTING CONDUIT AND CONDUCTOR SCHEDULE

AWG OR CABLE	CONDUCTOR RUN	CONDUIT RUN				
		▲	▲	▲	▲	▲
28 CONDUCTOR CABLE	Ø1					
	Ø2					
	SPECIAL GREEN AND YELLOW ARROW					
	Ø4					
	Ø5					
	Ø6					
	Ø2 P	2	2	2	1	4
	Ø4 P					
	Ø6 P					
	Ø2 PPB					
	Ø4 PPB					
	Ø6 PPB					
	SPARES					
	TOTAL					
2 #12 CABLE	Ø1 DETECTORS	-	-	-	-	1
	Ø2 DETECTORS	2	2	-	-	2
	Ø4 DETECTORS	-	-	2	-	4
	Ø5 DETECTORS	2	2	-	-	2
	Ø6 DETECTORS	-	-	-	-	3
TOTAL	4	4	2	-	12	
12 PR #19	INTERCONNECT	-	-	-	-	-
#12	SIGN LIGHTING	-	-	-	2	-
	INTERNALLY ILLUMINATED STREET NAME SIGN	-	2	2	2	-
TOTAL	-	2	2	4	-	
#10	SIGNAL COMMON	1	1	1	1	1
#8	LUMINAIRE	2	2	2	-	-
	SERVICE	-	-	-	-	2
	VIDEO DETECTOR CABLE	1	2	1	-	3
	CONDUIT SIZE (mm)	78	78	78	78	2-78

AS-BUILT

Contract No. 07- **257304**
 Resident Engineer: **AMY MAO**
 Completion Date: **12/12/07**

EXISTING POLE AND EQUIPMENT SCHEDULE

No.	TYPE	STANDARD		VEH SIG MTG		PED SIG MTG	PPB			HPS LUMINAIRE (W)	STREET NAME SIGN	SPECIAL REQUIREMENTS
		SMA (m)	LMA (m)	MAST ARM (m)	POLE		Ø	QUAD	ARROW			
(A)	26-4-113	12.2	3.7	2 - MAS	SV-1-T SV-2-TB	SP-1-T	-	-	-	250	SUNSET BLVD (IISNS)	-
(B)	26-4-113	12.2	3.7	1 - MAS	SV-1-T SV-3-TB	SP-2-T	4	-	←	250	SUNSET BLVD (IISNS)	-
(C)	26-4-113	12.2	3.7	2 - MAS	SV-1-T	SP-1-T	4	-	→	250	-	-
(D)	15	-	3.7	-	SV-1-T	SP-1-T	6	-	→	250	-	-
(E)	SIGN POST	-	-	-	-	-	6	-	↔	-	-	-
(F)	15	-	3.7	-	SV-2-TB	SP-1-T	6	-	←	250	-	-
(G)	15	-	3.7	-	-	-	-	-	-	250	-	-
(H)	15	-	3.7	-	-	-	-	-	-	250	-	-
(I)	PPB POST	-	-	-	-	-	2	-	→	-	-	-
(J)	PPB POST	-	-	-	-	-	2	-	←	-	-	-

IISNS = INTERNALLY ILLUMINATED STREET NAME SIGN

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN
ADAPTIVE TRAFFIC CONTROL SIGNAL
 (LOCATION 94)
 (ROUTE 1/SUNSET BOULEVARD)
 NO SCALE

E-220

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.



USERNAME => s123048
 DGN FILE => 725730ua220.dgn

CU 07382

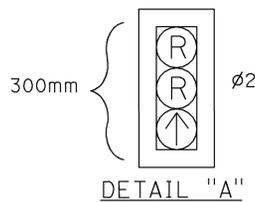
EA 257301

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN OVERSIGHT
 YEFIM ZABEZHINSKY
 CALCULATED/DESIGNED BY
 CHECKED BY
 MR KM
 REVISIONS:
 DATE 4/06
 REVISIONS:
 DATE 4/06

PROJECT NOTES: (THIS SHEET ONLY)

- 1 ADD 1-DLC
- 5 INSTALL 53C.
- 6 ADD 60SMFO (NOT A PAY ITEM ON THIS SHEET. SEE SHEET E-241 FOR TOTAL QUANTITIES.)
- 8 ADD 12SMFO
- 10 INSTALL No. 6(E) PULL BOX WITH 45 DEGREE CONDUIT SWEEPS PER DETAIL A ON SHEET E-256, FIBER OPTIC SPLICE CLOSURE.
- 11 INSTALL No. 6 PULL BOX WITH 45 DEGREE CONDUIT SWEEPS PER DETAIL A, SHEET E-256.

- 13 **RS** EXISTING MODEL 170 CONTROLLER. FURNISH AND INSTALL FOTM, C-MIC, AND STATE-FURNISHED MODEL 2070L CONTROLLER WITH MODEL 2070-6A MODEM AND LOOP DETECTOR SENSOR UNITS IN EXISTING MODEL 332 CONTROLLER CABINET.
- 19 INSTALL 60SMFO (NOT A PAY ITEM ON THIS SHEET. SEE SHEET E-241 FOR TOTAL QUANTITIES.)

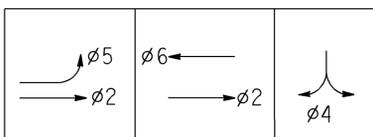


EXISTING CONDUIT AND CONDUCTOR SCHEDULE

AWG	CONDUCTOR RUN	CONDUIT RUN			
		1	2	3	4
#14	ø2				
	ø4				
	ø5				
	ø6				
	SPARES				
	TOTAL				
#10	SIGNAL COMMON	1	1	1	1
	ø2 DETECTORS	-	-	3	3
	ø4 DETECTORS	-	1	1	1
	ø5 DETECTORS	-	-	1	1
	ø6 DETECTORS	-	-	-	-
	TOTAL	-	1	5	5
#10	LUMINAIRE	-	2	2	2
#8	SIGNAL SERVICE	-	-	2	2
**	INTERCONNECT	-	-	-	-
	CONDUIT SIZE (m)	78	78	78	78

** 12 PAIR #19 SHIELDED CABLE

EXISTING PHASE DIAGRAM

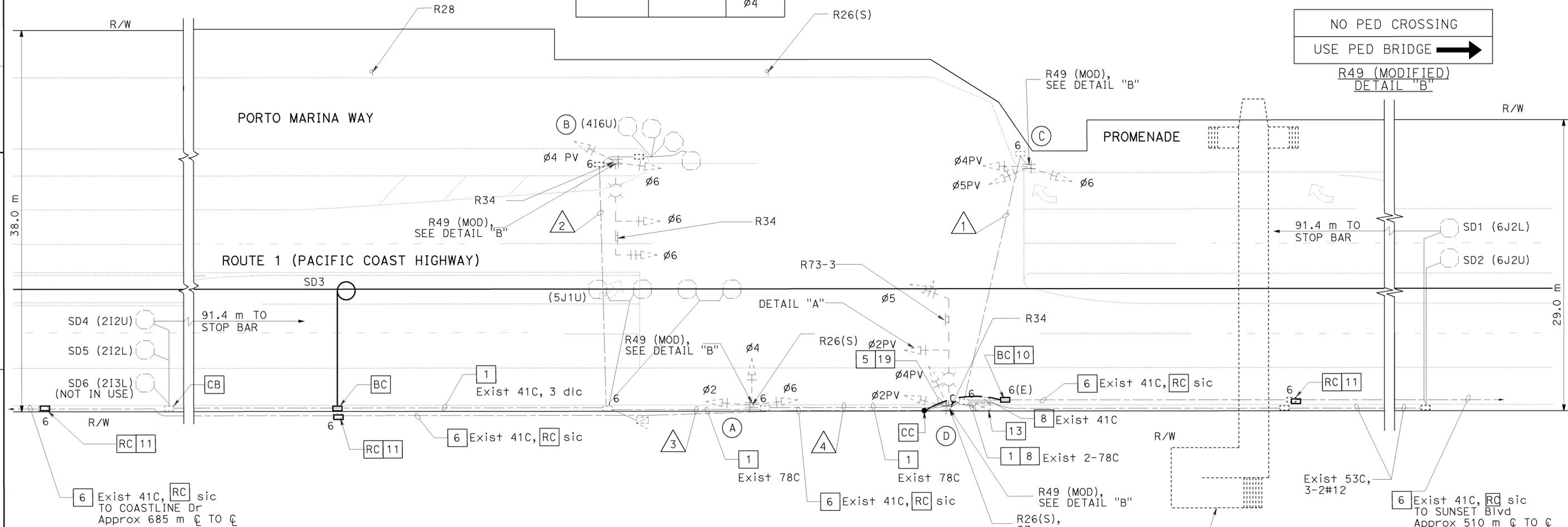


DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	1,105	Var		245	308

08/06
 REGISTERED ELECTRICAL ENGINEER
 9-25-06
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.
 To get to the Caltrans web site, go to: <http://www.dot.ca.gov>
 CH2M HILL
 3 HUTTON CENTRE DRIVE, SUITE 200
 SANTA ANA, CA 92707

NO PED CROSSING
 ← USE PED BRIDGE

NO PED CROSSING
 USE PED BRIDGE →



EXISTING POLE AND EQUIPMENT SCHEDULE

No.	STANDARD		VEH SIG MTG		PED SIGNAL	PPB	HPS LUMINAIRE W/O GLARE SHIELD (W)	SPECIAL REQUIREMENTS
	TYPE	SMA (m)	LMA (m)	MAST ARM				
(A)	1-A	-	-	-	TV-3-T	-	-	-
(B)	19	9.1	3.7	MAT MAS	SV-2-TA	-	200	-
(C)	1-A	-	-	-	TV-3-T	-	-	-
(D)	24A	10.7	4.6	2-MAS	SV-2-TB	-	200	-

AS-BUILT
 Contract No. 07- **257304**
 Resident Engineer: **AMY MAO**
 Completion Date: **12/12/07**

ADAPTIVE TRAFFIC CONTROL SIGNAL AND COMMUNICATION SYSTEM ROUTING

(LOCATION 95)
 (ROUTE 1/PORTO MARINA WAY)
 SCALE 1:200

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.



USERNAME => s123048
 DGN FILE => 7257304u221.dgn

CU 07382

EA 257301

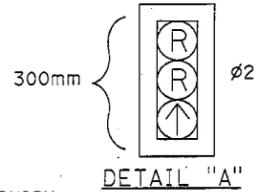
DATE PLOTTED => 24-OCT-2008
 TIME PLOTTED => 14:13

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

PROJECT NOTES: (THIS SHEET ONLY)

- 1 ADD 1-DLC
- 5 INSTALL 53C.
- 6 ADD 60SMFO (NOT A PAY ITEM ON THIS SHEET. SEE SHEET E-241 FOR TOTAL QUANTITIES.)
- 8 ADD 12SMFO
- 10 INSTALL No. 6(E) PULL BOX WITH 45 DEGREE CONDUIT SWEEPS PER DETAIL A ON SHEET E-256, FIBER OPTIC SPLICE CLOSURE.
- 11 INSTALL No. 6 PULL BOX WITH 45 DEGREE CONDUIT SWEEPS PER DETAIL A, SHEET E-256.

- 13 **RS** EXISTING MODEL 170 CONTROLLER. FURNISH AND INSTALL FOTM, C-MIC, AND STATE-FURNISHED MODEL 2070L CONTROLLER WITH MODEL 2070-6A MODEM AND LOOP DETECTOR SENSOR UNITS IN EXISTING MODEL 332 CONTROLLER CABINET.
- 19 INSTALL 60SMFO (NOT A PAY ITEM ON THIS SHEET. SEE SHEET E-241 FOR TOTAL QUANTITIES.)

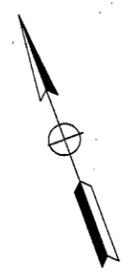
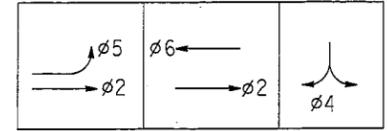


EXISTING CONDUIT AND CONDUCTOR SCHEDULE

AWG	CONDUCTOR RUN	CONDUIT RUN			
		1	2	3	4
#14	Ø2				
	Ø4				
	Ø5				
	Ø6				
	SPARES				
	TOTAL	2	2	2	2
#10	SIGNAL COMMON	1	1	1	1
2#12	Ø2 DETECTORS	-	-	3	3
	Ø4 DETECTORS	-	1	1	1
	Ø5 DETECTORS	-	-	1	1
TYPE A dlc	Ø6 DETECTORS	-	-	-	-
	TOTAL	-	1	5	5
#10	LUMINAIRE	-	2	2	2
#8	SIGNAL SERVICE	-	-	2	2
**	INTERCONNECT	-	-	-	-
**	CONDUIT SIZE (m)	78	78	78	78

** 12 PAIR #19 SHIELDED CABLE

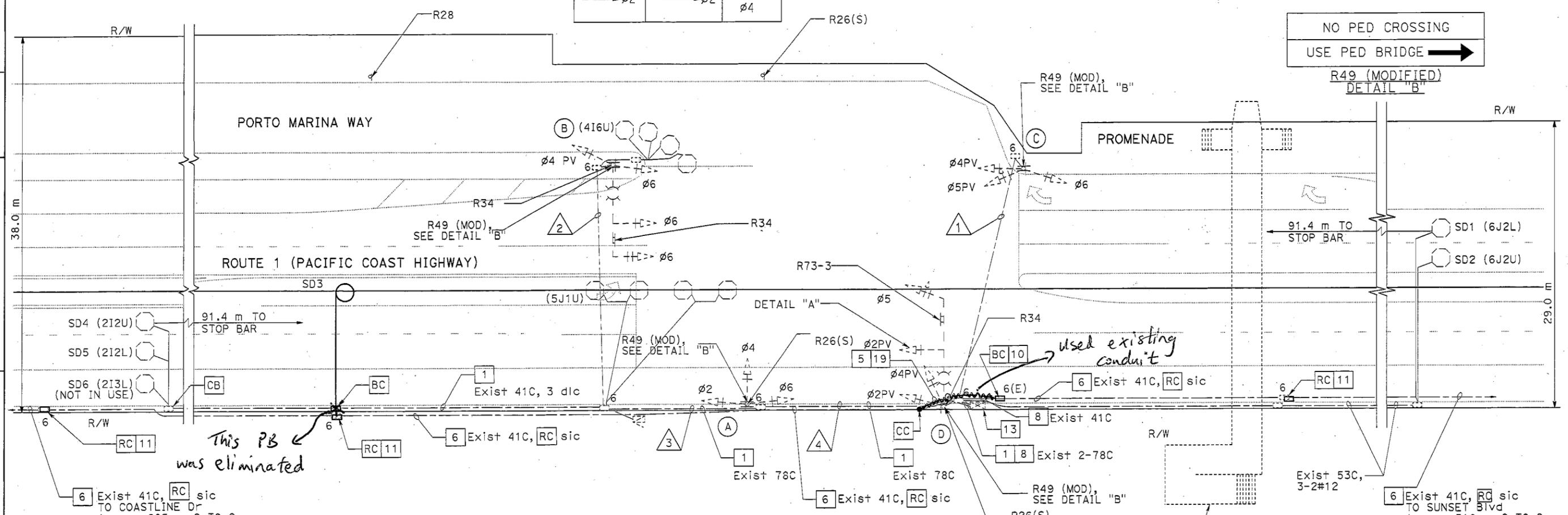
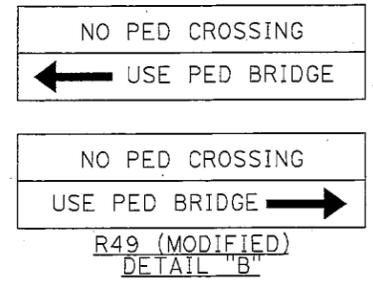
EXISTING PHASE DIAGRAM



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1,105	Var		245	A308

08/06
 REGISTERED ELECTRICAL ENGINEER
 9-25-06
 PLANS APPROVAL DATE
 Keene Matsuda
 No. E11758
 Exp. 9/30/06
 ELECTRICAL
 STATE OF CALIFORNIA

CH2M HILL
 3 HUTTON CENTRE DRIVE, SUITE 200
 SANTA ANA, CA 92707



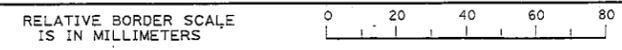
EXISTING POLE AND EQUIPMENT SCHEDULE

No.	TYPE	STANDARD		VEH SIG MTG		PED SIGNAL	PPB	HPS LUMINAIRE W/O GLARE SHIELD (W)	SPECIAL REQUIREMENTS
		SMA (m)	LMA (m)	MAST ARM	POLE	MTG	O		
(A)	1-A	-	-	-	TV-3-T	-	-	-	-
(B)	19	9.1	3.7	MAT MAS	SV-2-TA	-	-	200	-
(C)	1-A	-	-	-	TV-3-T	-	-	-	-
(D)	24A	10.7	4.6	2-MAS	SV-2-TB	-	-	200	-

AS-BUILT
 Contract No. 07-257304
 Resident Engineer: AMY MAO
 Completion Date: 12/12/07

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN
ADAPTIVE TRAFFIC CONTROL SIGNAL AND COMMUNICATION SYSTEM ROUTING
 (LOCATION 95)
 (ROUTE 1/PORTO MARINA WAY)
 SCALE 1:200
E-221

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.



USERNAME => trkathy
 DGN FILE => 725730uo221.dgn

CU 07382

EA 257301

LAST REVISION DATE PLOTTED => 27-SEP-2006
 00-00-00 TIME PLOTTED => 16:06

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1,105	Var	246	308

08/06
 REGISTERED ELECTRICAL ENGINEER
 Keene Matsuda
 No. E11758
 Exp. 9/30/06
 ELECTRICAL
 STATE OF CALIFORNIA

9-25-06
 PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

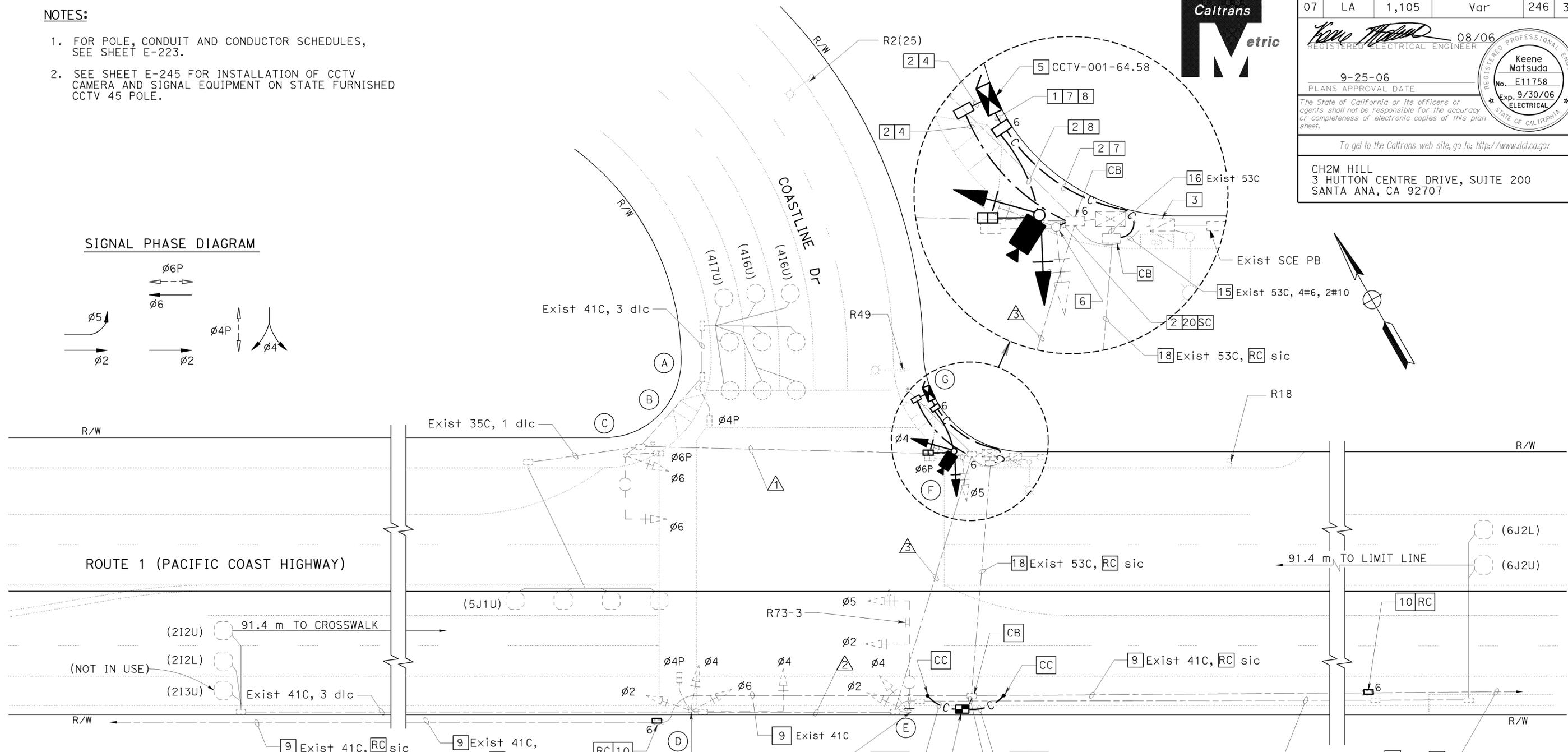
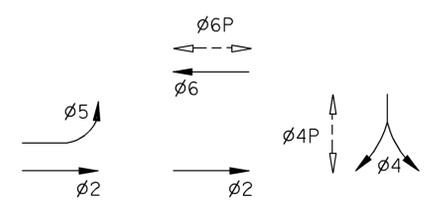
To get to the Caltrans web site, go to: <http://www.dot.ca.gov>

CH2M HILL
 3 HUTTON CENTRE DRIVE, SUITE 200
 SANTA ANA, CA 92707

NOTES:

- FOR POLE, CONDUIT AND CONDUCTOR SCHEDULES, SEE SHEET E-223.
- SEE SHEET E-245 FOR INSTALLATION OF CCTV CAMERA AND SIGNAL EQUIPMENT ON STATE FURNISHED CCTV 45 POLE.

SIGNAL PHASE DIAGRAM



PROJECT NOTES: (THIS SHEET)

- INSTALL 2-78C.
- INSTALL 53C.
- EXISTING 100 A, 120/240 V, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE, INSTALL 30 A, 120 V, 1P, CB FOR CCTV CAMERA.
- INSTALL 3#8.
- INSTALL MODEL 334-TV CABINET ON NEW FOUNDATION. CABINET TO INCLUDE CCTV CAMERA EQUIPMENT. SEE SHEET E-246.
- RL** EXISTING 1-A POLE WITH EXISTING SIGNAL HEADS TO MAINTAIN OPERATION DURING INSTALLATION OF STATE-FURNISHED CCTV-45 POLE. **RC** 1-A POLE AND EQUIPMENT AFTER INSTALLATION OF NEW STATE-FURNISHED CCTV 45 POLE. INSTALL STATE-FURNISHED CCTV-45 POLE IN EXACT LOCATION AS 1-A POLE UNLESS OTHERWISE NOTED.
- INSTALL 12SMFO.
- INSTALL COMPOSITE VIDEO CABLE.

- ADD 60SMFO (NOT A PAY ITEM ON THIS SHEET. SEE E-240 AND E-241 FOR TOTAL QUANTITIES.)
- INSTALL No. 6 PULL BOX WITH 45 DEGREE CONDUIT SWEEPS PER DETAIL A, SHEET E-256.
- INSTALL SPLICE VAULT, FIBER OPTIC SPLICE CLOSURE.
- INSTALL 2-12SMFO.
- ADD 3#8.
- ADD 12SMFO.
- INSTALL 60SMFO (NOT A PAY ITEM ON THIS SHEET. SEE E-240 AND E-241 FOR TOTAL QUANTITIES.)
- ADD 2-12SMFO.
- INSTALL 12CSC FOR VEHICLE SIGNAL HEADS AND 3CSC FOR PEDESTRIAN SIGNAL HEADS.

AS-BUILT

Contract No. 07- **257304**

Resident Engineer: **AMY MAO**

Completion Date: **12/12/07**

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

MODIFY SIGNAL AND CLOSED CIRCUIT TELEVISION CAMERA AND COMMUNICATION SYSTEM ROUTING (LOCATION 96) (ROUTE 1/ COASTLINE DRIVE)

E-222

SCALE 1:200

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.



USERNAME => s123048
 DGN FILE => 725730ua222.dgn

CU 07382 EA 257301

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DESIGN OVERSIGHT
 YEFIM ZABEZHINSKY
 MR KM
 DATE REVISION BY
 4/06 4/06 DATE REVISION BY
 CALCULATED/DESIGNED BY
 CHECKED BY



LAST REVISION DATE PLOTTED => 24-OCT-2008
 00-00-00 TIME PLOTTED => 14:13

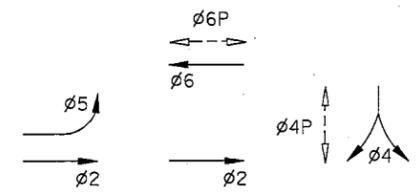
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN OVERSIGHT
 YEFIM ZABEZHINSKY
 REVISIONS:
 NO. DATE BY
 1 4/06 MR
 2 4/06 KM
 3 4/06
 4 4/06
 5 4/06
 6 4/06
 7 4/06
 8 4/06
 9 4/06
 10 4/06
 11 4/06
 12 4/06
 13 4/06
 14 4/06
 15 4/06
 16 4/06
 17 4/06
 18 4/06
 19 4/06
 20 4/06
 21 4/06
 22 4/06
 23 4/06
 24 4/06
 25 4/06
 26 4/06
 27 4/06
 28 4/06
 29 4/06
 30 4/06
 31 4/06
 32 4/06
 33 4/06
 34 4/06
 35 4/06
 36 4/06
 37 4/06
 38 4/06
 39 4/06
 40 4/06
 41 4/06
 42 4/06
 43 4/06
 44 4/06
 45 4/06
 46 4/06
 47 4/06
 48 4/06
 49 4/06
 50 4/06
 51 4/06
 52 4/06
 53 4/06
 54 4/06
 55 4/06
 56 4/06
 57 4/06
 58 4/06
 59 4/06
 60 4/06
 61 4/06
 62 4/06
 63 4/06
 64 4/06
 65 4/06
 66 4/06
 67 4/06
 68 4/06
 69 4/06
 70 4/06
 71 4/06
 72 4/06
 73 4/06
 74 4/06
 75 4/06
 76 4/06
 77 4/06
 78 4/06
 79 4/06
 80 4/06
 81 4/06
 82 4/06
 83 4/06
 84 4/06
 85 4/06
 86 4/06
 87 4/06
 88 4/06
 89 4/06
 90 4/06
 91 4/06
 92 4/06
 93 4/06
 94 4/06
 95 4/06
 96 4/06
 97 4/06
 98 4/06
 99 4/06
 100 4/06

NOTES:

- FOR POLE, CONDUIT AND CONDUCTOR SCHEDULES, SEE SHEET E-223.
- SEE SHEET E-245 FOR INSTALLATION OF CCTV CAMERA AND SIGNAL EQUIPMENT ON STATE FURNISHED CCTV 45 POLE.

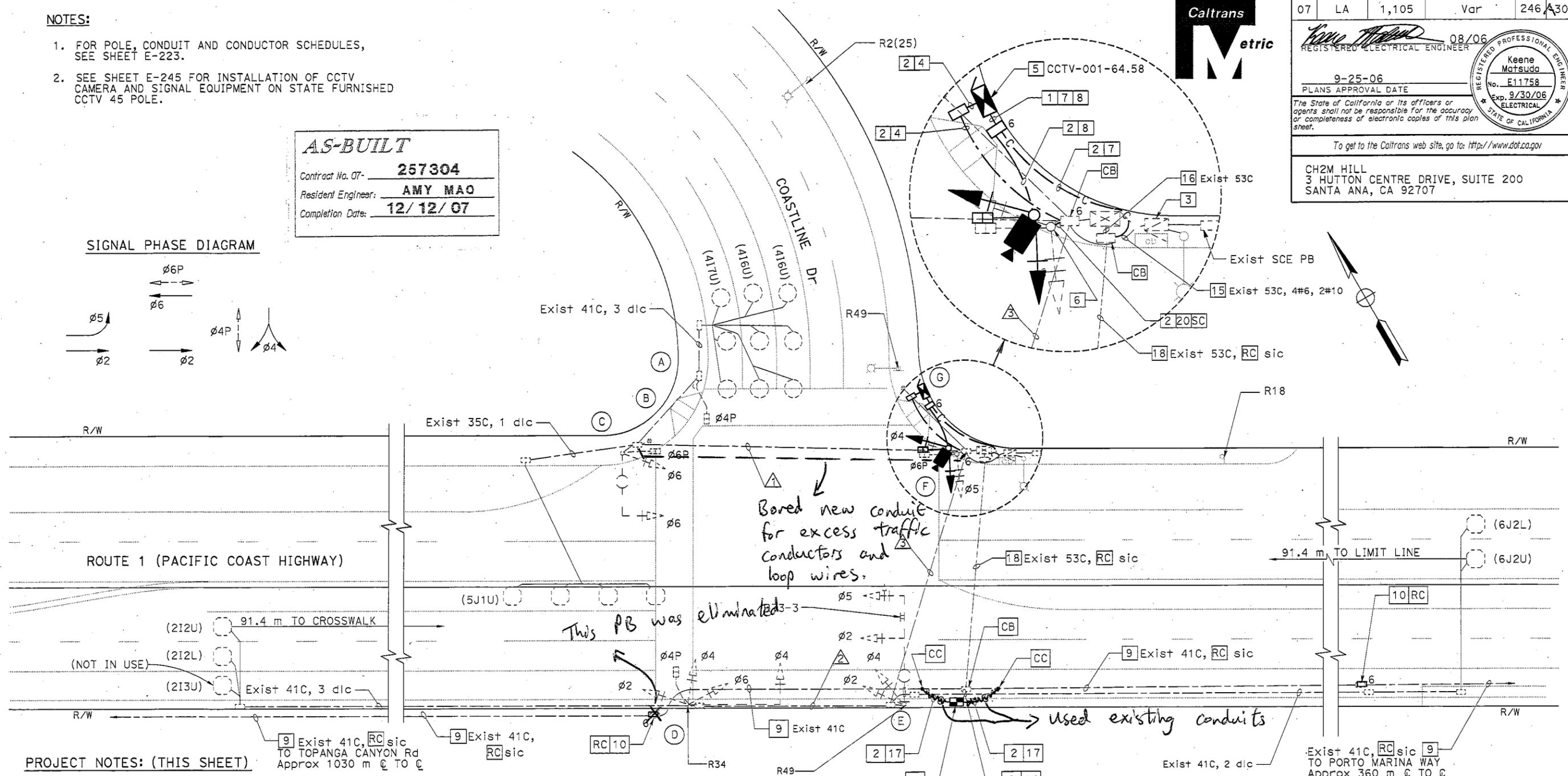
AS-BUILT
 Contract No. 07- 257304
 Resident Engineer: AMY MAO
 Completion Date: 12/12/07

SIGNAL PHASE DIAGRAM



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	1,105	Var	246	308

08/06
 REGISTERED ELECTRICAL ENGINEER
 9-25-06
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.
 To get to the Caltrans web site, go to: <http://www.dot.ca.gov>
 CH2M HILL
 3 HUTTON CENTRE DRIVE, SUITE 200
 SANTA ANA, CA 92707

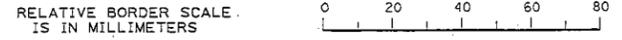


PROJECT NOTES: (THIS SHEET)

- | | |
|---|---|
| <ol style="list-style-type: none"> INSTALL 2-78C. INSTALL 53C. EXISTING 100 A, 120/240 V, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE, INSTALL 30 A, 120 V, 1P, CB FOR CCTV CAMERA. INSTALL 3#8. INSTALL MODEL 334-TV CABINET ON NEW FOUNDATION. CABINET TO INCLUDE CCTV CAMERA EQUIPMENT. SEE SHEET E-246. EXISTING 1-A POLE WITH EXISTING SIGNAL HEADS TO MAINTAIN OPERATION DURING INSTALLATION OF STATE-FURNISHED CCTV-45 POLE. RC 1-A POLE AND EQUIPMENT AFTER INSTALLATION OF NEW STATE-FURNISHED CCTV 45 POLE. INSTALL STATE-FURNISHED CCTV-45 POLE IN EXACT LOCATION AS 1-A POLE UNLESS OTHERWISE NOTED. INSTALL 12SMFO. INSTALL COMPOSITE VIDEO CABLE. | <ol style="list-style-type: none"> ADD 60SMFO (NOT A PAY ITEM ON THIS SHEET. SEE E-240 AND E-241 FOR TOTAL QUANTITIES.) INSTALL No. 6 PULL BOX WITH 45 DEGREE CONDUIT SWEEPS PER DETAIL A, SHEET E-256. INSTALL SPLICE VAULT, FIBER OPTIC SPLICE CLOSURE. INSTALL 2-12SMFO. ADD 3#8. ADD 12SMFO. INSTALL 60SMFO (NOT A PAY ITEM ON THIS SHEET. SEE E-240 AND E-241 FOR TOTAL QUANTITIES.) ADD 2-12SMFO. INSTALL 12CSC FOR VEHICLE SIGNAL HEADS AND 3CSC FOR PEDESTRIAN SIGNAL HEADS. |
|---|---|

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN
MODIFY SIGNAL AND CLOSED CIRCUIT TELEVISION CAMERA AND COMMUNICATION SYSTEM ROUTING
 (LOCATION 96)
 (ROUTE 1/COASTLINE DRIVE)
 SCALE 1:200
E-222

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.



USERNAME => trmikesi
 DGN FILE => 725730u0222.dgn

CU 07382 EA 257301

LAST REVISION DATE PLOTTED => 28-SEP-2006
 00-00-00 TIME PLOTTED => 09:04



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1,105	Var	247	308
 08/06 REGISTERED ELECTRICAL ENGINEER				Keene Matsuda No. E11758 Exp. 9/30/06 REGISTERED PROFESSIONAL ENGINEER ELECTRICAL STATE OF CALIFORNIA	
PLANS APPROVAL DATE: 9-25-06 <small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					
To get to the Caltrans web site, go to: http://www.dot.ca.gov					
CH2M HILL 3 HUTTON CENTRE DRIVE, SUITE 200 SANTA ANA, CA 92707					

AS-BUILT
 Contract No. 07- **257304**
 Resident Engineer: **AMY MAO**
 Completion Date: **12/12/07**

EXISTING CONDUIT AND CONDUCTOR SCHEDULE

AWG OR CABLE	CONDUCTOR RUN	CONDUIT RUN		
		1	2	3
#14	Ø2	-	3	3
	Ø4	-	3	3
	Ø5	-	-	3
	Ø6	3	3	3
	Ø4P	2	2	2
	Ø6P	2	-	-
	Ø4PPB	2	2	2
	Ø6PPB	2	-	-
	SPARES	3	3	3
	TOTAL	14	16	19
#12	SIGN LIGHTING	2	-	2
2#12 dlc	Ø2 DETECTOR	-	3	3
	Ø4 DETECTOR	3	-	-
	Ø5 DETECTOR	1	-	-
	Ø6 DETECTOR	-	-	2
	TOTAL	4	3	5
**	INTERCONNECT	-	-	-
#10	LUMINAIRE	2	-	2
	SIGNAL COMMON	1	1	1
	TOTAL	3	1	3
#8	SIGNAL SERVICE	-	-	-
CONDUIT SIZE (mm)		53	53	53

** 12 PAIR #19 SHIELDED CABLE

NEW POLE AND EQUIPMENT SCHEDULE

No.	TYPE	STANDARD		VEH SIG MTG		PED SIG MTG	PPB		HPS Lum	SPECIAL REQUIREMENTS
		SMA (m)	LMA (m)	MAST ARM (m)	POLE		Ø	ARROW		
Ⓕ	CCTV 45	-	-	-	SV-2-TA	SP-1-T	-	-	-	-

EXISTING POLE AND EQUIPMENT SCHEDULE

No.	TYPE	STANDARD		VEG SIG MTG		PED SIG MTG	PPB		HPS LUMINAIRE (W)	SPECIAL REQUIREMENTS
		SMA (m)	LMA (m)	MA	POLE		Ø	ARROW		
Ⓐ	1-A	-	-	-	-	TP-1-T	6	→	-	-
Ⓑ	PPB POST	-	-	-	-	-	4	←	-	-
Ⓒ	17	6.1	3.7	MAS	SV-1-T	SP-1-T	-	-	200	COASTLINE (IISNS) →
Ⓓ	16	6.1	-	MAS	SV-3-TA	SP-1-T	4	←	-	-
Ⓔ	24	10.7	3.7	2-MAS	SV-2-TA	-	-	-	200	COASTLINE (IISNS)
Ⓕ	1-A	-	-	-	TV-2-T	SP-1	-	-	-	-
Ⓖ	PPB POST	-	-	-	-	-	6	←	-	-

IISNS - INTERNALLY ILLUMINATED STREET NAME SIGN.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN
MODIFY SIGNAL AND CLOSED CIRCUIT TELEVISION CAMERA AND COMMUNICATION SYSTEM ROUTING
 (LOCATION 96)
 (ROUTE 1/ COASTLINE DRIVE)

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.



USERNAME => s123048
 DGN FILE => 725730ua223.dgn

NO SCALE

CU 07382

EA 257301

E-223

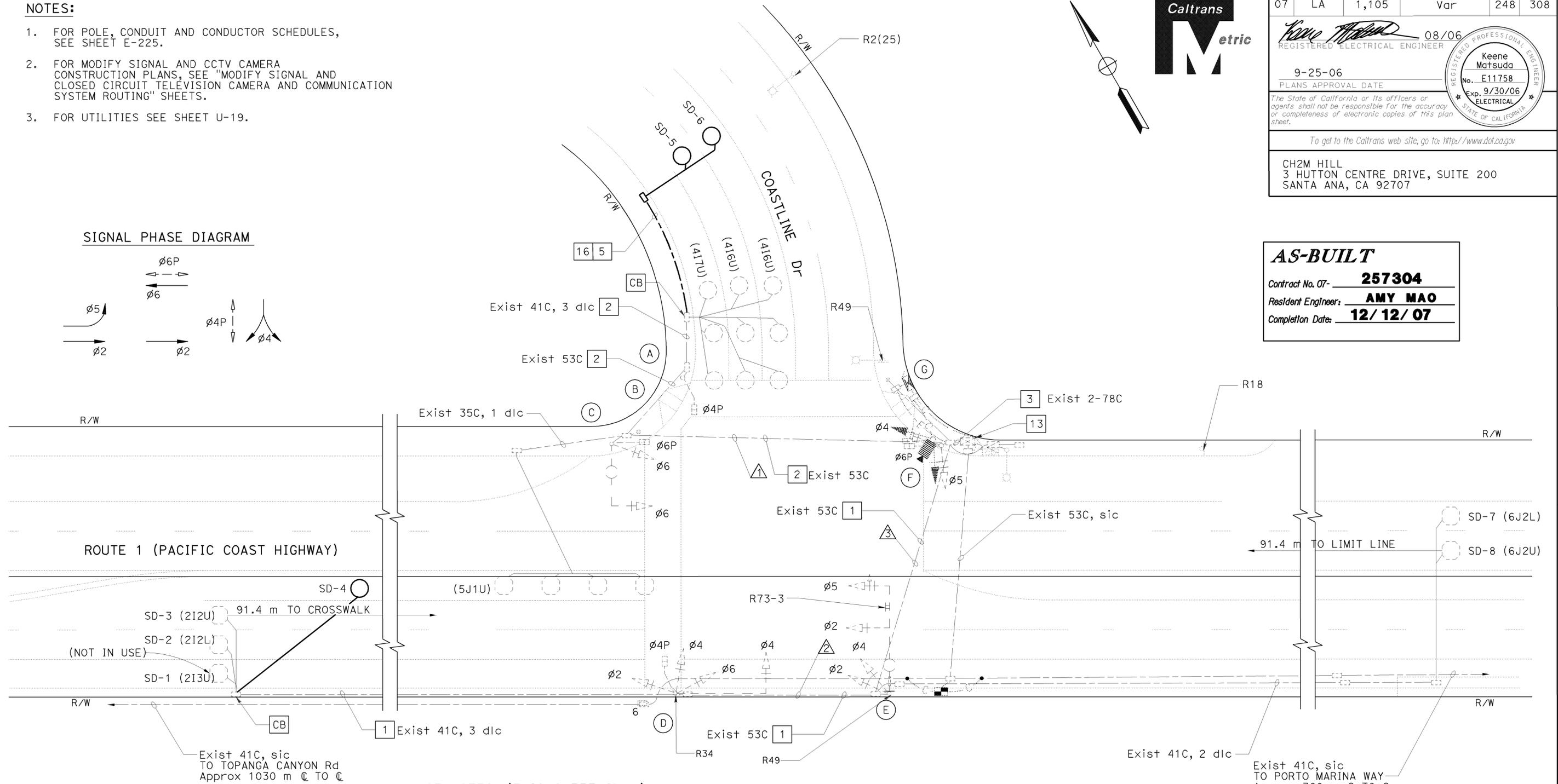
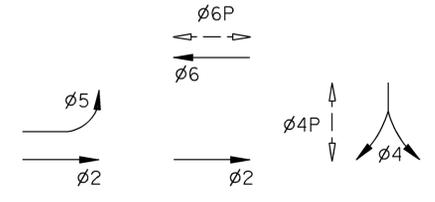
00-00-00 | TIME PLOTTED => 14:14
 00-00-00 | DATE PLOTTED => 24-OCT-2008

DATE REVISED BY: 4/06 4/06
 MR KM
 CALCULATED/DESIGNED BY: YEFIM ZABEZHINSKY
 CHECKED BY:
 DESIGN OVERSIGHT: YEFIM ZABEZHINSKY
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Caltrans

NOTES:

- FOR POLE, CONDUIT AND CONDUCTOR SCHEDULES, SEE SHEET E-225.
- FOR MODIFY SIGNAL AND CCTV CAMERA CONSTRUCTION PLANS, SEE "MODIFY SIGNAL AND CLOSED CIRCUIT TELEVISION CAMERA AND COMMUNICATION SYSTEM ROUTING" SHEETS.
- FOR UTILITIES SEE SHEET U-19.

SIGNAL PHASE DIAGRAM



PROJECT NOTES: (THIS SHEET ONLY)

- 1 ADD 1-DLC
- 2 ADD 2-DLC
- 3 ADD 3-DLC
- 5 INSTALL 53C
- 13 [RS] EXISTING MODEL 170 CONTROLLER. FURNISH AND INSTALL FOTM, C-MIC, AND STATE-FURNISHED MODEL 2070L CONTROLLER WITH MODEL 2070-6A MODEM AND LOOP DETECTOR SENSOR UNITS IN EXISTING MODEL 332 CONTROLLER CABINET.
- 16 INSTALL 2-DLC

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.



ADAPTIVE TRAFFIC CONTROL SIGNAL
 (LOCATION 96)
 (ROUTE 1/ COASTLINE DRIVE)
 SCALE 1:200

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1,105	Var	248	308

08/06
 REGISTERED ELECTRICAL ENGINEER
 9-25-06
 PLANS APPROVAL DATE
 Keene Matsuda
 No. E11758
 Exp. 9/30/06
 ELECTRICAL
 STATE OF CALIFORNIA
 To get to the Caltrans web site, go to: <http://www.dot.ca.gov>
 CH2M HILL
 3 HUTTON CENTRE DRIVE, SUITE 200
 SANTA ANA, CA 92707

AS-BUILT
 Contract No. 07- **257304**
 Resident Engineer: **AMY MAO**
 Completion Date: **12/12/07**

LAST REVISION: DATE PLOTTED => 24-OCT-2008
 TIME PLOTTED => 14:14
 00-00-00



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1,105	Var		249	308

Keene Matsuda 08/06
 REGISTERED ELECTRICAL ENGINEER

9-25-06
 PLANS APPROVAL DATE

Keene Matsuda
 No. E11758
 Exp. 9/30/06
 REGISTERED PROFESSIONAL ENGINEER
 ELECTRICAL
 STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To get to the Caltrans web site, go to: <http://www.dot.ca.gov>

CH2M HILL
 3 HUTTON CENTRE DRIVE, SUITE 200
 SANTA ANA, CA 92707

AS-BUILT

Contract No. 07- **257304**

Resident Engineer: **AMY MAO**

Completion Date: **12/12/07**

EXISTING CONDUIT AND CONDUCTOR SCHEDULE

AWG OR CABLE	CONDUCTOR RUN	CONDUIT RUN		
		1	2	3
#14	Ø2	-	3	3
	Ø4	-	3	3
	Ø5	-	-	3
	Ø6	3	3	3
	Ø4P	2	2	2
	Ø6P	2	-	-
	Ø4PPB	2	2	2
	Ø6PPB	2	-	-
	SPARES	3	3	3
	TOTAL	14	16	19
#12	SIGN LIGHTING	2	-	2
dlc	Ø2 DETECTOR	-	3	3
	Ø4 DETECTOR	3	-	-
	Ø5 DETECTOR	1	-	-
	Ø6 DETECTOR	-	-	2
	TOTAL	4	3	5
**	INTERCONNECT	-	-	-
#10	LUMINAIRE	2	-	2
	SIGNAL COMMON	1	1	1
	TOTAL	3	1	3
#8	SIGNAL SERVICE	-	-	-
CONDUIT SIZE (mm)		53	53	53

** 12 PAIR #19 SHIELDED CABLE

EXISTING POLE AND EQUIPMENT SCHEDULE

No.	TYPE	STANDARD		VEG SIG MTG		PED SIG MTG	PPB		HPS LUMINAIRE (W)	SPECIAL REQUIREMENTS
		SMA (m)	LMA (m)	MA	POLE		Ø	ARROW		
Ⓐ	A-1	-	-	-	-	TP-1-T	6	→	-	-
Ⓑ	PPB POST	-	-	-	-	-	4	←	-	-
Ⓒ	17	6.1	3.7	MAS	SV-1-T	SP-1-T	-	-	200	COASTLINE (IISNS) →
Ⓓ	16	6.1	-	MAS	SV-3-TA	SP-1-T	4	←	-	-
Ⓔ	24	10.7	3.7	2-MAS	SV-2-TA	-	-	-	200	COASTLINE (IISNS)
Ⓕ	A-1	-	-	-	TV-2-T	SP-1	-	-	-	-
Ⓖ	PPB POST	-	-	-	-	-	6	←	-	-

IISNS - INTERNALLY ILLUMINATED STREET NAME SIGN.

ADAPTIVE TRAFFIC CONTROL SIGNAL
 (LOCATION 96)
 (ROUTE 1/ COASTLINE DRIVE)
 NO SCALE

E-225

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

RELATIVE BORDER SCALE IS IN MILLIMETERS



USERNAME => s123048
 DGN FILE => 725730ua225.dgn

CU 07382

EA 257301



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1,105	Var	251	308
 08/06 REGISTERED ELECTRICAL ENGINEER				No. E11758 Exp. 9/30/06 ELECTRICAL	
PLANS APPROVAL DATE: 9-25-06					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					
To get to the Caltrans web site, go to: http://www.dot.ca.gov					
CH2M HILL 3 HUTTON CENTRE DRIVE, SUITE 200 SANTA ANA, CA 92707					

AS-BUILT
 Contract No. 07- **257304**
 Resident Engineer: **AMY MAO**
 Completion Date: **12/12/07**

EXISTING CONDUIT AND CONDUCTOR SCHEDULE

AWG OR CABLE	CONDUCTOR RUN	CONDUIT RUN				
		1	2	3	4	5
28 CONDUCTOR CABLE	Ø2					
	Ø6					
	Ø8					
	SPECIAL GREEN ARROW & YELLOW ARROW					
	Ø5	2	2	2	2	4
	Ø6 P					
	Ø8 P					
	Ø6 PPB					
	Ø8 PPB					
	SPARES					
SIGNAL COMMON	-	-	-	-	-	
dlc	Ø2 DETECTORS	-	-	3	3	3
	Ø6	-	-	-	-	-
	Ø8	-	-	1	3	3
	Ø5	1	1	-	-	1
EB SAMPLING DETECTORS	-	-	-	-	-	
TOTAL	-	-	4	6	7	
**	INTERCONNECT	-	-	-	-	-
#8	LUMINAIRES	-	2	2	2	2
	ILLUMINATED SIGN	-	-	2	2	-
#8	SERVICE	-	2	-	-	2
	VIDEO DETECTOR CABLE	1	1	1	1	2
CONDUIT SIZE (mm)		78	78	78	78	2-78

NEW POLE AND EQUIPMENT SCHEDULE

No.	TYPE	STANDARD		VEH SIG MTG		PED SIG MTG	PPB		HPS LUM	SPECIAL REQUIREMENTS
		SMA (m)	LMA (m)	MAST ARM (m)	POLE		Ø	ARROW		
F	CCTV 45	-	-	-	SV-1-TA	SP-1-T	6	→	-	-

EXISTING POLE AND EQUIPMENT SCHEDULE

No.	TYPE	STANDARD		VEH SIG MTG		PED SIGNAL		PPB		HPS LUMINAIRE (W)	STREET NAME SIGNS
		SMA (m)	LMA (m)	MAST ARM	POLE	MTG	Ø	ARROW			
A	24	10.7	3.7	2-MAS	SV-2-TA	-	-	-	200	TOPANGA Cyn Blvd (REFL)	
B	16	6.1	-	MAS	SV-3-TA	SP-1-T	8	←	-	-	
C	17-2-129	6.1	3.7	*	SV-1-T	SP-2-T	8	←	200	TOPANGA Cyn Blvd (REFL)	
D	SIGN POST	-	-	-	SV-1-T	-	6	→	-	-	
E	SIGN POST	-	-	-	SV-1-T	-	6	←	-	-	
F	1-A	-	-	-	TV-1-T	SP-1-T	6	→	-	-	
G	15	-	3.7	-	-	-	-	-	200	-	

REFL = REFLECTIVE STREET NAME SIGN
 * = Exist SPECIAL MOUNTING

MODIFY SIGNAL AND CLOSED CIRCUIT TELEVISION CAMERA AND COMMUNICATION SYSTEM ROUTING (LOCATION 97) (ROUTE 1/TOPANGA CANYON BOULEVARD)

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.



USERNAME => s123048
 DGN FILE => 725730ua227.dgn

NO SCALE

CU 07382

EA 257301

E-227

NOTES:

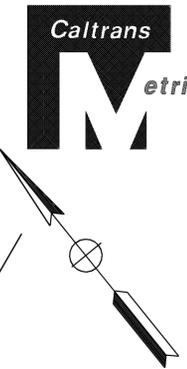
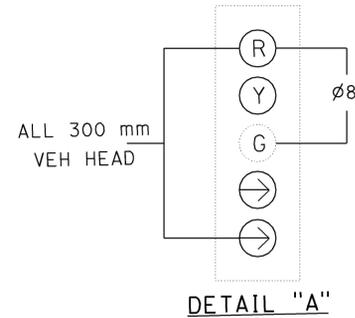
- FOR POLE, CONDUIT AND CONDUCTOR SCHEDULES, SEE SHEET E-229.
- FOR MODIFY SIGNAL AND CCTV CAMERA CONSTRUCTION PLANS, SEE "MODIFY SIGNAL AND CLOSED CIRCUIT TELEVISION CAMERA" SHEETS.
- FOR UTILITIES SEE SHEET U-20.

AS-BUILT

Contract No. 07- **257304**
 Resident Engineer: **AMY MAO**
 Completion Date: **12/12/07**

PROJECT NOTES: (THIS SHEET ONLY)

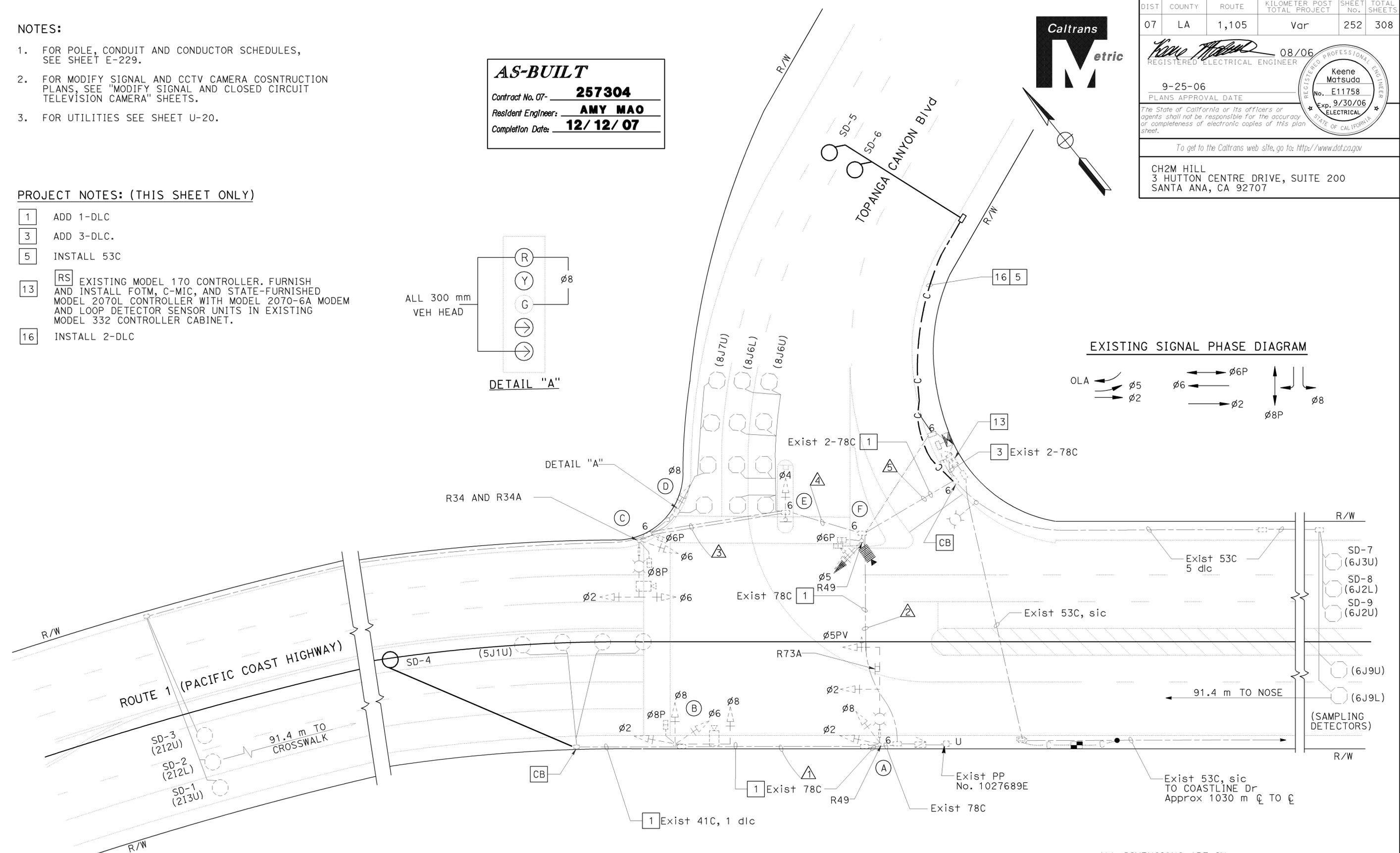
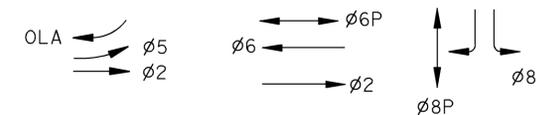
- 1 ADD 1-DLC
- 3 ADD 3-DLC.
- 5 INSTALL 53C
- 13 **RS** EXISTING MODEL 170 CONTROLLER. FURNISH AND INSTALL FOTM, C-MIC, AND STATE-FURNISHED MODEL 2070L CONTROLLER WITH MODEL 2070-6A MODEM AND LOOP DETECTOR SENSOR UNITS IN EXISTING MODEL 332 CONTROLLER CABINET.
- 16 INSTALL 2-DLC



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1,105	Var	252	308

08/06
 REGISTERED ELECTRICAL ENGINEER
 9-25-06
 PLANS APPROVAL DATE
 Keene Matsuda
 No. E11758
 Exp. 9/30/06
 ELECTRICAL
 STATE OF CALIFORNIA
 To get to the Caltrans web site, go to: <http://www.dot.ca.gov>
 CH2M HILL
 3 HUTTON CENTRE DRIVE, SUITE 200
 SANTA ANA, CA 92707

EXISTING SIGNAL PHASE DIAGRAM



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ADAPTIVE TRAFFIC CONTROL SIGNAL
 (LOCATION 97)
 (ROUTE 1/TOPANGA CANYON BOULEVARD)
 SCALE 1:200
E-228

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

RELATIVE BORDER SCALE IS IN MILLIMETERS



USERNAME => s123048
 DGN FILE => 7257304uad228.dgn

CU 07382

EA 257301

DATE PLOTTED => 24-OCT-2008
 TIME PLOTTED => 14:14
 LAST REVISION
 00-00-00



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	1,105	Var	253	308

08/06
 REGISTERED ELECTRICAL ENGINEER

9-25-06
 PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To get to the Caltrans web site, go to: <http://www.dot.ca.gov>

CH2M HILL
 3 HUTTON CENTRE DRIVE, SUITE 200
 SANTA ANA, CA 92707



EXISTING CONDUIT AND CONDUCTOR SCHEDULE

AWG OR CABLE	CONDUCTOR RUN	CONDUIT RUN				
		1	2	3	4	5
28 CONDUCTOR CABLE	Ø2					
	Ø6					
	Ø8					
	SPECIAL GREEN ARROW & YELLOW ARROW					
	Ø5	2	2	2	2	4
	Ø6 P					
	Ø8 P					
	Ø6 PPB					
	Ø8 PPB					
	SPARES					
SIGNAL COMMON						
dlc	Ø2 DETECTORS	-	-	3	3	3
	Ø6	-	-	-	-	-
	Ø8	-	-	1	3	3
	Ø5	1	1	-	-	1
	E/B SAMPLING DETECTORS	-	-	-	-	-
**	TOTAL	-	-	4	6	7
**	INTERCONNECT	-	-	-	-	-
#8	LUMINAIRES	-	2	2	2	2
	ILLUMINATED SIGN	-	-	2	2	-
	SERVICE	-	2	-	-	2
	VIDEO DETECTOR CABLE	1	1	1	1	2
	CONDUIT SIZE (mm)	78	78	78	78	2-78

** -12 PAIR #19 SHIELDED CABLE

AS-BUILT

Contract No. 07- **257304**

Resident Engineer: **AMY MAO**

Completion Date: **12/12/07**

EXISTING POLE AND EQUIPMENT SCHEDULE

No.	STANDARD			VEH SIG MTG		PED SIGNAL	PPB	HPS LUMINAIRE (W)	STREET NAME SIGNS
	TYPE	SMA (m)	LMA (m)	MAST ARM	POLE	MTG	Ø ARROW		
(A)	24	10.7	3.7	2-MAS	SV-2-TA	-	-	200	TOPANGA Cyn Blvd (REFL)
(B)	16	6.1	-	MAS	SV-3-TA	SP-1-T	8	-	-
(C)	17-2-129	6.1	3.7	*	SV-1-T	SP-2-T	8	200	TOPANGA Cyn Blvd (REFL)
(D)	SIGN POST	-	-	-	SV-1-T	-	6	-	-
(E)	SIGN POST	-	-	-	SV-1-T	-	6	-	-
(F)	1-A	-	-	-	TV-1-T	SP-1-T	6	-	-
(G)	15	-	3.7	-	-	-	-	200	-

REFL = REFLECTIVE STREET NAME SIGN
 * = Exist SPECIAL MOUNTING

ADAPTIVE TRAFFIC CONTROL SIGNAL
 (LOCATION 97)
 (ROUTE 1/ TOPANGA CANYON BOULEVARD)
E-229

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.



USERNAME => s123048
 DGN FILE => 725730ua229.dgn

NO SCALE

CU 07382

EA 257301