INFORMATION HANDOUT

For Contract No. 07-3W0904
At 07-LA-5, 10, 60, 101-Var

Identified by
Project ID 0715000042

MATERIALS INFORMATION

Fiber Optic System As-Built Drawings

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5,10	16.9/18.5, 50.0/31.1	69	59

Teri Parola 9/ 8/95
REGISTERED ELECTRICAL ENGINEER Date)

12-30-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER TERI J. PAROLA No. 14898 Exp. 6/30/99 ELECTRICAL STATE OF CALIFORNIA

NATIONAL ENGINEERING TECHNOLOGY
14320 FIRESTONE BLVD., SUITE 100
LA MIRADA, CA 90638

IN ASSOCIATION WITH:

KAWES AND ASSOCIATES, INC.

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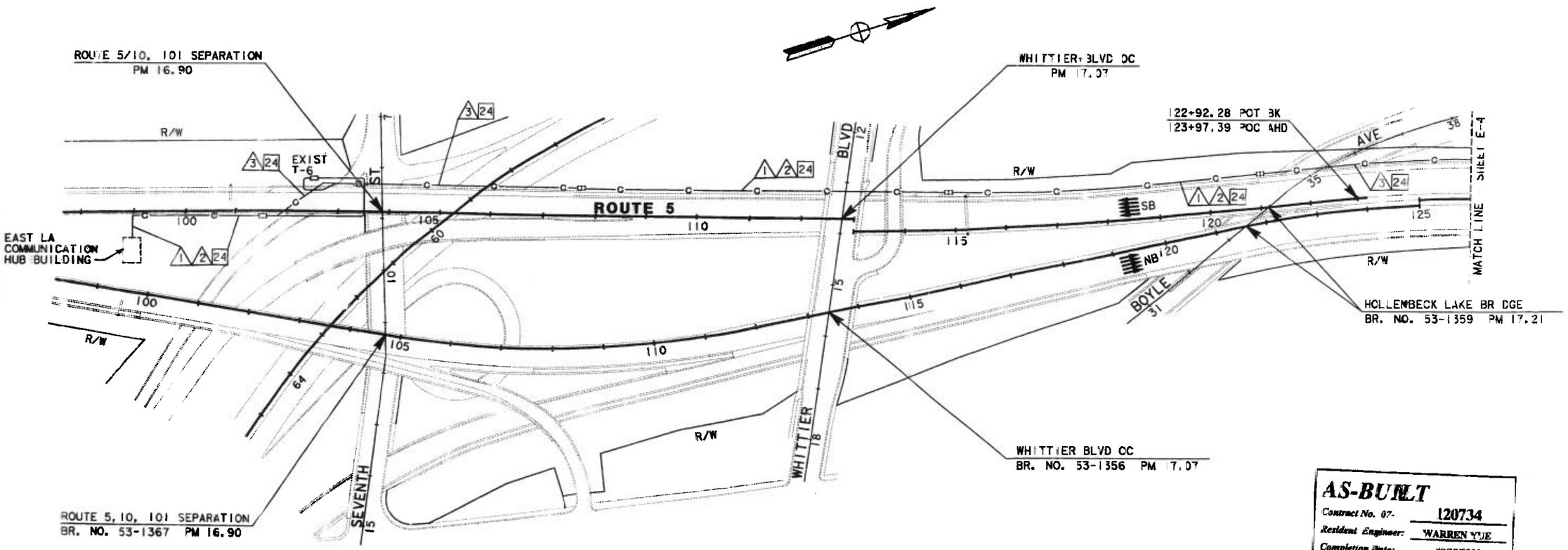
CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUCTOR TYPE	FUNCTION	RUN 1			RUN 2			RUN 3		
72SMFO CABLE	VIDEO /DATA				1			1		
48SMFO CABLE	VIDEO /DATA			1 (E)					1 (E)	
8MMFO CABLE	SHORT HAUL VIDEO		1 (E)							1 (E)
50P22 CABLE	DATA /PHONE	1 (E)						1 (E)		
	INNERDUCT		1¼" (E)	1¼" (E)	1¼"	1¼"	1¼"		1¼" (E)	1¼" (E)
	CONDUIT SIZE		4" (E)			4" (E)			4" (E)	

(E) - EXISTING CONDUIT OR CONDUCTOR

PROJECT NOTES: (THIS SHEET ONLY)
24 ADD CABLES TO EXISTING CONDUIT.



AS-BUILT
Contract No. 07- 120734
Resident Engineer: WARREN YUE
Completion Date: 09/18/2000

COMMUNICATION SYSTEM ROUTING

SCALE: 1"= 00'

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND PROJECT NOTES SEE SHEETS E-1 AND E-2.

E-3

CALCULATED/ DESIGNED BY	TP	DATE 9/95	REVISED BY
CHECKED BY	JZ	9/95	DATE REVISED

DESIGN OVERSIGHT
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

DATE PLOTTED -> 26-Mar-2001
TIME PLOTTED -> 10:54

FORM DC-OE-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => HHuynh
DGN FILE => 712073-0326105436

CU 07396

EA 12073

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5, 0	8.9/18.5, 0.0/31.1	73	159

Teri Parola 9/ 8/95
REGISTERED ELECTRICAL ENGINEER (Date)

12-30-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER TERI J. PAROLA No. 14898 Exp. 6/30/99 ELECTRICAL STATE OF CALIFORNIA

NATIONAL ENGINEERING TECHNOLOGY
4320 F RESTONE BLVD., SUITE 100
LA M RADA, CA 90638
IN ASSOCIATION WITH:
KAWES AND ASSOCIATES, INC.

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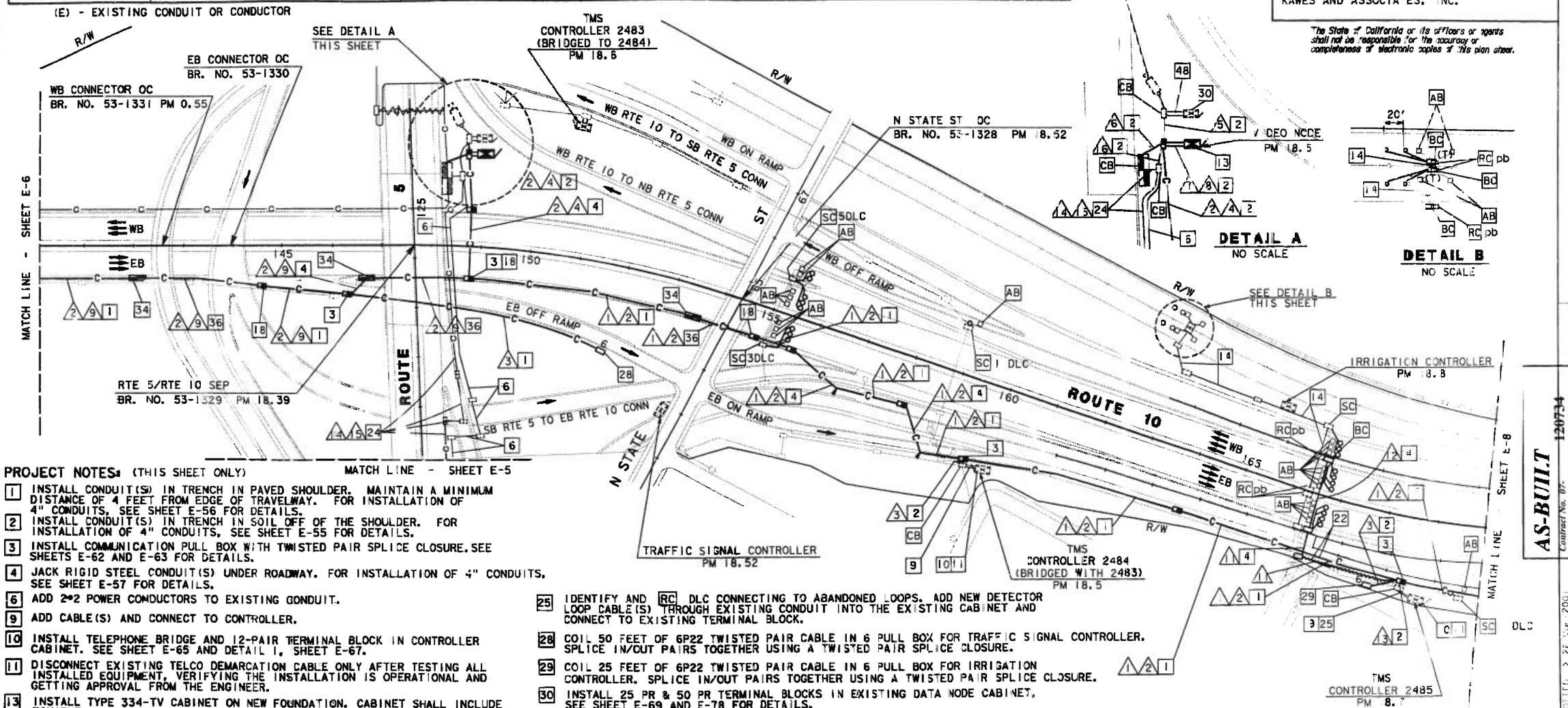
CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUCTOR TYPE	FUNCTION	RUN 1	2	3	4	5	6	7	8	9	11	12	13	14	15	16
50P22 CABLE	DATA /PHONE	1		1		1								1 (E)		
6P22 CABLE	DATA /PHONE			1									1			
72SMFO CABLE	DATA / VIDEO	1			1		1								1	
12SMFO CABLE	SH VIDEO		1		1			1								
2SMFO CABLE	VIDEO / DATA						1	1								
25P22 CABLE	DATA / PHONE			1		1				1						
8MMFO	SH VIDEO													1 (E)		
48SMFO	VIDEO / DATA														1 (E)	
2#2	POWER								2							2
DLC	RAMP/COUNT										15	11	15			
	INNERDUCT	1¼" 1¼"			1¼" 1¼"					1¼" 1¼"				1¼" (E) 1¼" (E)	1¼" 1¼" 1¼"	
	CONDUIT SIZE	4"	4"	2"	4"	3"	3"	3"	3"	4"	3"	2"	2"	4" (E)	4" (E)	2"

(E) - EXISTING CONDUIT OR CONDUCTOR



PROJECT NOTES: (THIS SHEET ONLY)

1. INSTALL CONDUIT(S) IN TRENCH IN PAVED SHOULDER. MAINTAIN A MINIMUM DISTANCE OF 4 FEET FROM EDGE OF TRAVELWAY. FOR INSTALLATION OF 4" CONDUITS, SEE SHEET E-56 FOR DETAILS.
2. INSTALL CONDUIT(S) IN TRENCH IN SOIL OFF OF THE SHOULDER. FOR INSTALLATION OF 4" CONDUITS, SEE SHEET E-55 FOR DETAILS.
3. INSTALL COMMUNICATION PULL BOX WITH TWISTED PAIR SPLICE CLOSURE. SEE SHEETS E-62 AND E-63 FOR DETAILS.
4. JACK RIGID STEEL CONDUIT(S) UNDER ROADWAY. FOR INSTALLATION OF 4" CONDUITS, SEE SHEET E-57 FOR DETAILS.
6. ADD 2#2 POWER CONDUCTORS TO EXISTING CONDUIT.
9. ADD CABLE(S) AND CONNECT TO CONTROLLER.
10. INSTALL TELEPHONE BRIDGE AND 12-PAIR TERMINAL BLOCK IN CONTROLLER CABINET. SEE SHEET E-65 AND DETAIL 1, SHEET E-67.
11. DISCONNECT EXISTING TELCO DEMARCATION CABLE ONLY AFTER TESTING ALL INSTALLED EQUIPMENT, VERIFYING THE INSTALLATION IS OPERATIONAL AND GETTING APPROVAL FROM THE ENGINEER.
13. INSTALL TYPE 334-TV CABINET ON NEW FOUNDATION. CABINET SHALL INCLUDE EQUIPMENT AT VIDEO NODE. SEE SHEETS E-68 AND E-69 FOR DETAILS.
14. RC EXIST DLC. INSTALL NEW DLC IN THE EXISTING CONDUIT.
18. INSTALL COMMUNICATION PULL BOX 15 FEET FROM EDGE OF STRUCTURE.
22. INSTALL CONDUITS IN THE SAME TRENCH. SEE SHEETS E-55 AND E-56 FOR DETAILS.
24. ADD CABLES TO EXISTING CONDUIT.
25. IDENTIFY AND RC DLC CONNECTING TO ABANDONED LOOPS. ADD NEW DETECTOR LOOP CABLE(S) THROUGH EXISTING CONDUIT INTO THE EXISTING CABINET AND CONNECT TO EXISTING TERMINAL BLOCK.
28. COIL 50 FEET OF 6P22 TWISTED PAIR CABLE IN 6 PULL BOX FOR TRAFFIC SIGNAL CONTROLLER. SPLICE IN/OUT PAIRS TOGETHER USING A TWISTED PAIR SPLICE CLOSURE.
29. COIL 25 FEET OF 6P22 TWISTED PAIR CABLE IN 6 PULL BOX FOR IRRIGATION CONTROLLER. SPLICE IN/OUT PAIRS TOGETHER USING A TWISTED PAIR SPLICE CLOSURE.
30. INSTALL 25 PR & 50 PR TERMINAL BLOCKS IN EXISTING DATA NODE CABINET, SEE SHEET E-69 AND E-78 FOR DETAILS.
34. INSTALL SPLICE VAULT 15 FEET FROM EDGE OF STRUCTURE, WITHOUT TWISTED PAIR AND FIBER OPTIC SPLICE CLOSURES. FIGURE 8 100 FEET OF ALL CABLES IN THE SPLICE VAULT.
36. INSTALL RIGID STEEL CONDUIT(S) IN TRENCH IN PAVED SHOULDER. CONDUIT(S) SHALL BE INSTALLED AS CLOSE TO THE EDGE OF TRAVELWAY AS POSSIBLE.
48. INSTALL 50P22 AND 25P22 TWISTED PAIR CABLES IN THE EXIST NG CONDUIT.

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND PROJECT NOTES SEE SHEETS E-1 AND E-2.

LOOP DETECTOR VIDEO NODE AND COMMUNICATION SYSTEM ROUTING

SCALE: 1"=100'

E-7

AS-BUILT
Contract No. 07- 120734
Redlined By: WARREN YUE
Completion Date: 09/18/2000

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

PROJECT ENGINEER: PAT SULLIVAN
CALCULATED/DESIGNED BY: TP
CHECKED BY: JZ
DATE REVISED BY: 9/95
DATE REVISED: 9/95

FORM DC-OE-92-PF (REV. 3/88)
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3
USERNAME => HHuynh
DGN FILE => 712073U0726H401.8
CU 07396
EA 120731

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	60	0.1/11.7	89	183

Alebachew Bekele
REGISTERED ELECTRICAL ENGINEER

5-18-98
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
ALEBACHEW BEKELE
No. E 15331
Exp. 06/30/01
ELECTRICAL
STATE OF CALIFORNIA

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DATE	REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUCTOR TYPE	FUNCTION	RUN 10			RUN 20
50PR22 CABLE	COMMUNICATION DATA/VOICE	1			
48SMFO	MULTIPLEXED DATA/VIDEO		1		
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION			1	
6PR22 CABLE	DISTRIBUTION DATA/VOICE				1
	INNERDUCT		1¼"	1¼"	
	CONDUIT SIZE	4"			2"

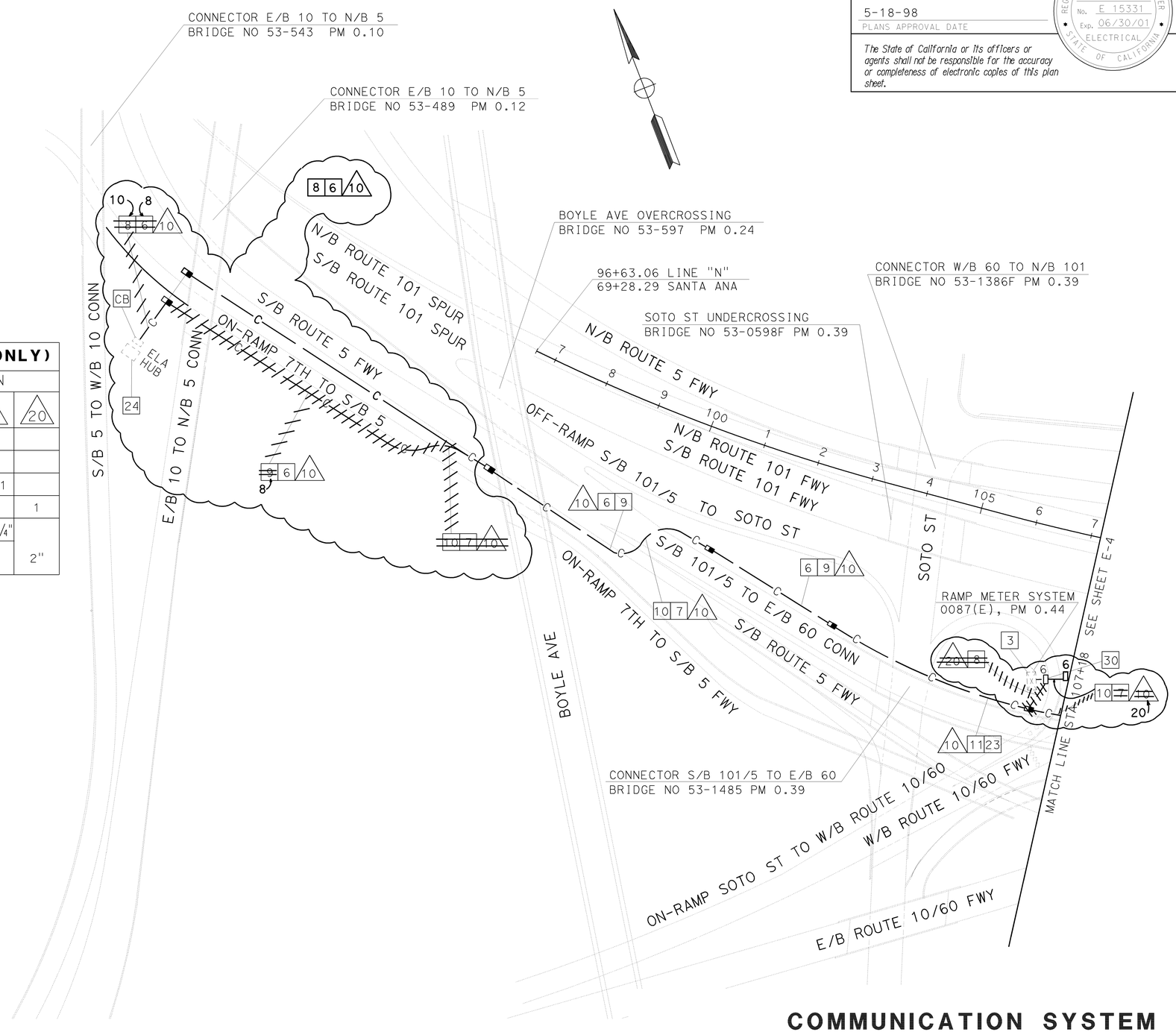
CONSTRUCTION NOTES THIS SHEET:

23 INSTALL 4" SPARE CONDUIT(FIBERGLASS).

24 TERMINATE 50PR22 AND 48SMFO CABLES INTO EAST LOS ANGELES HUB BUILDING. SEE SHEETS E-89 AND E-90 FOR DETAILS.

30 RC EXISTING PULL BOX. INSTALL NEW PULL BOX.

AS-BUILT
Contract No. 07- 1209C4
Resident Engineer: Paul Wang
Completion Date: 01/28/02



NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
SEE SHEET E-1 AND E-2 FOR LEGEND AND PROJECT NOTES.

COMMUNICATION SYSTEM ROUTING

SCALE: 1" = 100'

E-3

13-JUL-2007 11:03 gcruz
71209cu03.dgn
LAST REVISION

FORM DC-OE-92-PF (REV. 3/88)
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3
CU 07396
EA 1209C1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	60	0.1/11.7	90	183

Alebachew Bekele
REGISTERED ELECTRICAL ENGINEER

5-18-98
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
ALEBACHEW BEKELE
No. E 15331
Exp. 06/30/01
ELECTRICAL
STATE OF CALIFORNIA

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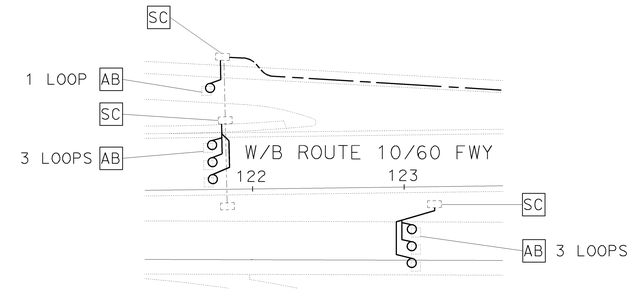
CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUCTOR TYPE	FUNCTION	RUN 10			RUN 12	RUN 20
50PR22 CABLE	COMMUNICATION DATA/VOICE	1				
48SMFO	MULTIPLAXED DATA/VIDEO		1			
12SMFO	CCTV CAMREA TO VIDEO DISTRIBUTION			1		
6PR22 CABLE	DISTRIBUTION DATA/VOICE				1	1
	INNERDUCT		1¼"	1¼"		
	CONDUIT SIZE	4"			3"	2"

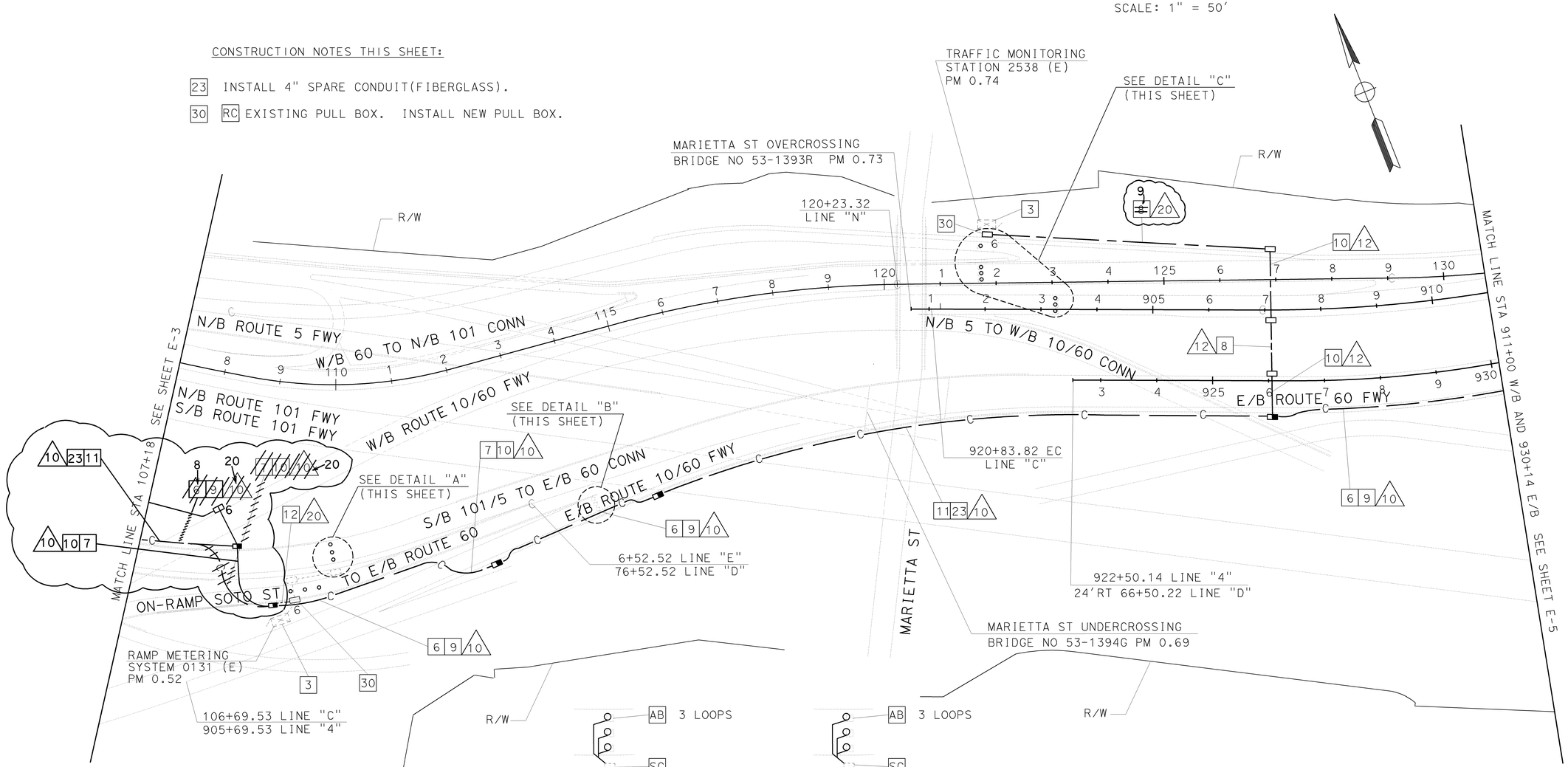


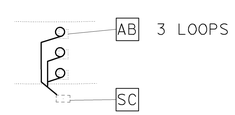
DETAIL "C"
SCALE: 1" = 50'

CONSTRUCTION NOTES THIS SHEET:

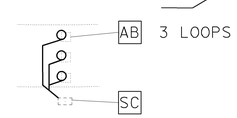
23 INSTALL 4" SPARE CONDUIT(FIBERGLASS).

30 RC EXISTING PULL BOX. INSTALL NEW PULL BOX.





DETAIL "A"
SCALE: 1" = 50'



DETAIL "B"
SCALE: 1" = 50'

AS-BUILT
Contract No. 07- 1209C4
Resident Engineer: Paul Wang
Completion Date: 01/28/02

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
SEE SHEET E-1 AND E-2 FOR LEGEND AND PROJECT NOTES.

COMMUNICATION SYSTEM ROUTING AND LOOP DETECTOR

SCALE: 1" = 100'

E-4

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

DATE	REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY
CHECKED BY

LAST REVISION DATE PLOTTED => 13-JUL-2007
TIME PLOTTED => 11:03

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	60	0.1/11.7	92	183

REGISTERED ELECTRICAL ENGINEER

5-18-98
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ALEBACHEW BEKELE No. E 15331 Exp. 06/30/01 ELECTRICAL STATE OF CALIFORNIA

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CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUCTOR TYPE	FUNCTION	RUN 10			12	20	21	24	96
50PR22 CABLE	COMMUNICATION DATA/VOICE	1							
48SMFO	MULTIPLEXED DATA/VIDEO		1						
12SMFO	CCTV CAMERA TO VIDEO DISTRIBUTION			1					
6PR22 CABLE	DISTRIBUTION DATA/VOICE				2	1	3	1	
DLC	DETECTOR LEAD-IN CABLE								1
	INNERDUCT		1¼"	1¼"					
	CONDUIT SIZE	4"			3"	2"	2"	3"	2"

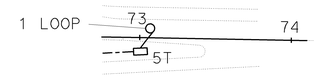
CONSTRUCTION NOTES THIS SHEET:

16 RC PULL BOX COVER. FILL OPENING WITH PCC AND AC TO MATCH EXISTING. (0.1′ MIN AC).

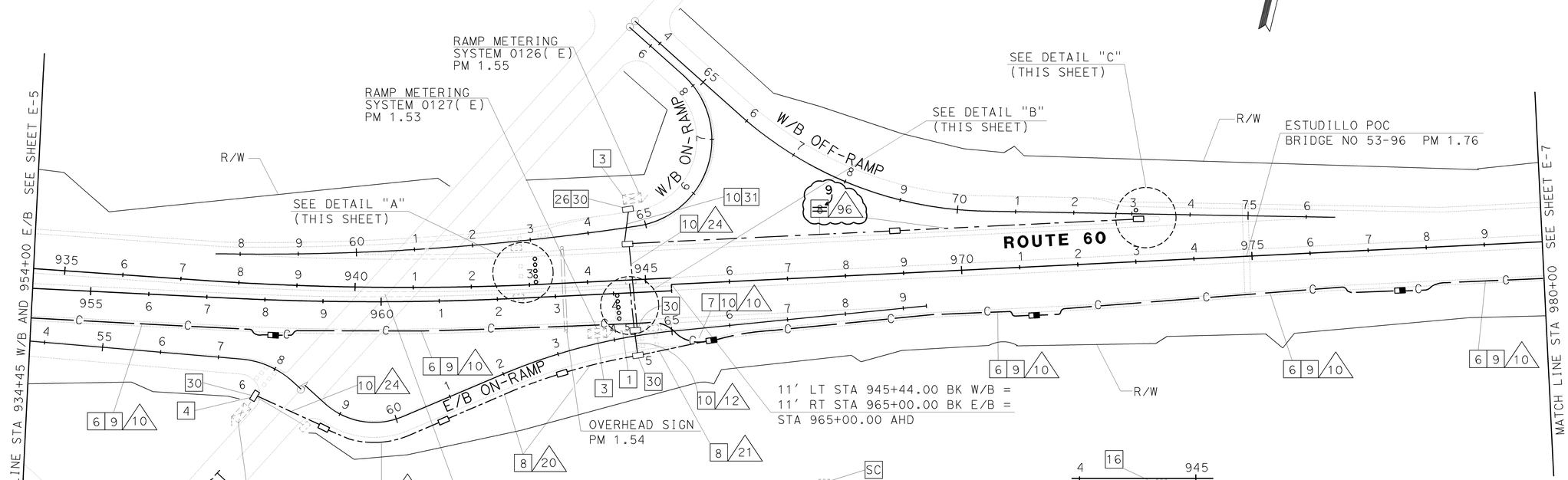
26 INSTALL 1 DLC, USE EXISTING CONDUIT FROM PULL BOX TO CABINET. INSTALL STATE FURNISHED LOOP SENSOR/DC ISOLATION UNIT AND CONNECT DLC CABLE.

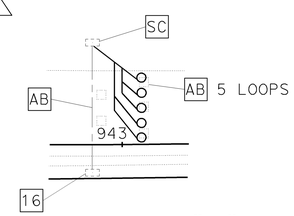
30 RC EXISTING PULL BOX. INSTALL NEW PULL BOX.

31 INSTALL 1 DLC AND 1 6PR22 CABLE IN 3" CONDUIT.

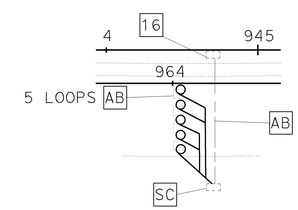


DETAIL "C"
SCALE: 1" = 50′





DETAIL "A"
SCALE: 1" = 50′



DETAIL "B"
SCALE: 1" = 50′

AS-BUILT
Contract No. 07- **1209C4**
Resident Engineer: **Paul Wang**
Completion Date: **01/28/02**

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
SEE SHEET E-1 AND E-2 FOR LEGEND AND PROJECT NOTES.

LOOP DETECTOR AND COMMUNICATION SYSTEM ROUTING

SCALE: 1" = 100′

E-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN OVERSIGHT: PAT SULLIVAN
CALCULATED/DESIGNED BY | CHECKED BY | DATE | REVISED BY | DATE REVISED

LAST REVISION | DATE PLOTTED => 13-JUL-2007 | TIME PLOTTED => 11:03

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	101	0.1/4.5	33	83

REGISTERED ELECTRICAL ENGINEER

3-13-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ALLEN CHEN No. 14106 Exp. 6/30/97 ELECTRICAL STATE OF CALIFORNIA

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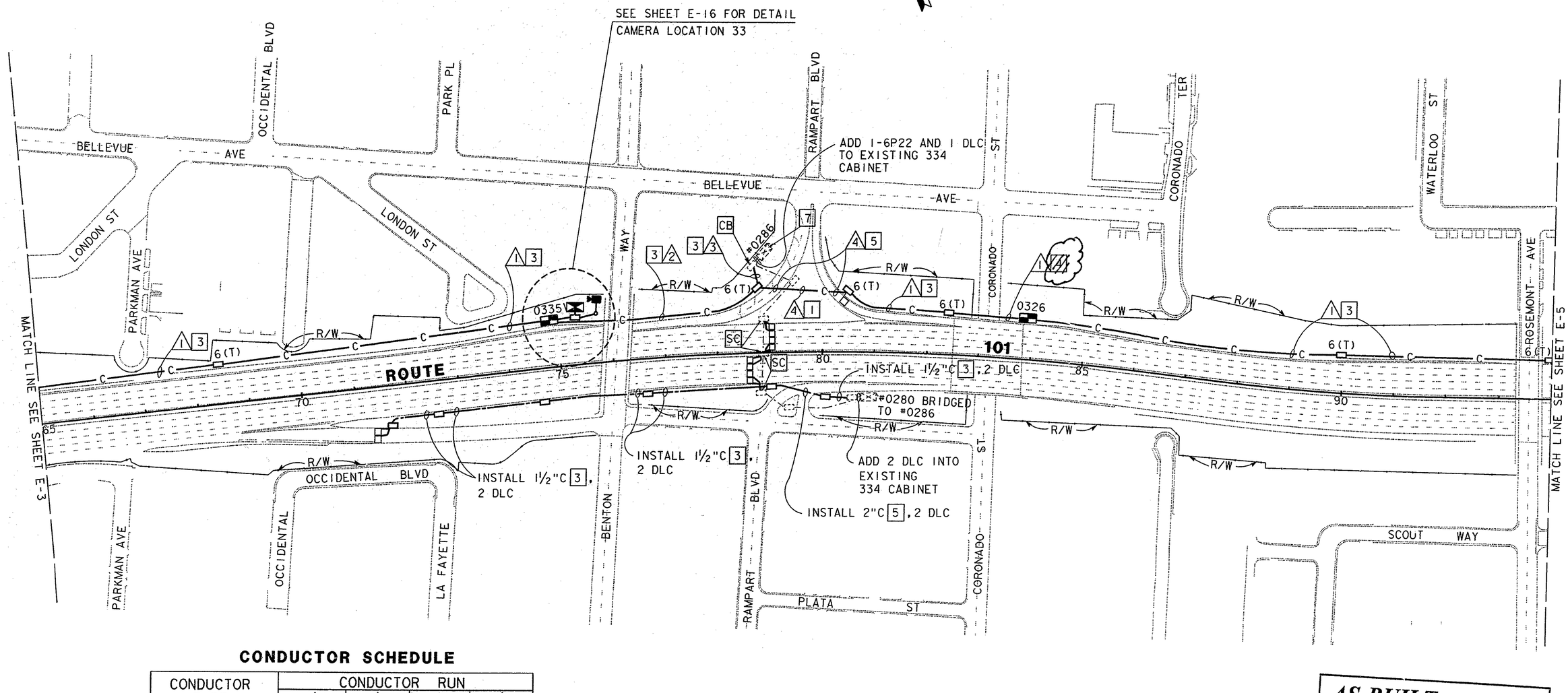
NOTES (FOR THIS SHEET ONLY):

1. FOR PROJECT NOTES AND LEGEND, SEE SHEET E-1.
2. FOR EXISTING UTILITIES, SEE SHEET U-4.



CONDUCTOR SCHEDULE

CONDUCTOR TYPE	CONDUCTOR RUN 1			2			3			4		
50P22 CABLE			1			1						1
6P22 CABLE						1		1				
2SMFO												
60SMFO	1			1						1		
12SMFO		1			1						1	
DLC								1				1
INNERDUCT	1	1		1	1					1	1	
CONDUIT SIZE	*3"	4"			4"			2"			4"	

* EXISTING TO BE REUSED

AS-BUILT
Contract No. 07- 1186C4
Resident Engineer: AMOS, H.
Completion Date: 08/21/1998

NOTE : THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

CCTV AND COMMUNICATION SYSTEM ROUTING

SCALE: 1"=100'

E-4

REVISED BY	DATE	DATE REVISED
CALCULATED/DESIGNED BY	AL	
CHECKED BY	AC	

PROJECT ENGINEER ALLEN CHEN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans IVHS DEVELOPMENT

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

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DGN FILE => /usr/mikesl/P4/71186cu04.dg

CU 07396

EA 1186C1

LAST REVISION 08-31-94

TIME PLOTTED => 18-MAR-1995 11:53

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	101	0.1/4.5	32	83

REGISTERED ELECTRICAL ENGINEER

3-13-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ALLEN CHEN No. 14106 Exp. 6-30-97 ELECTRICAL STATE OF CALIFORNIA

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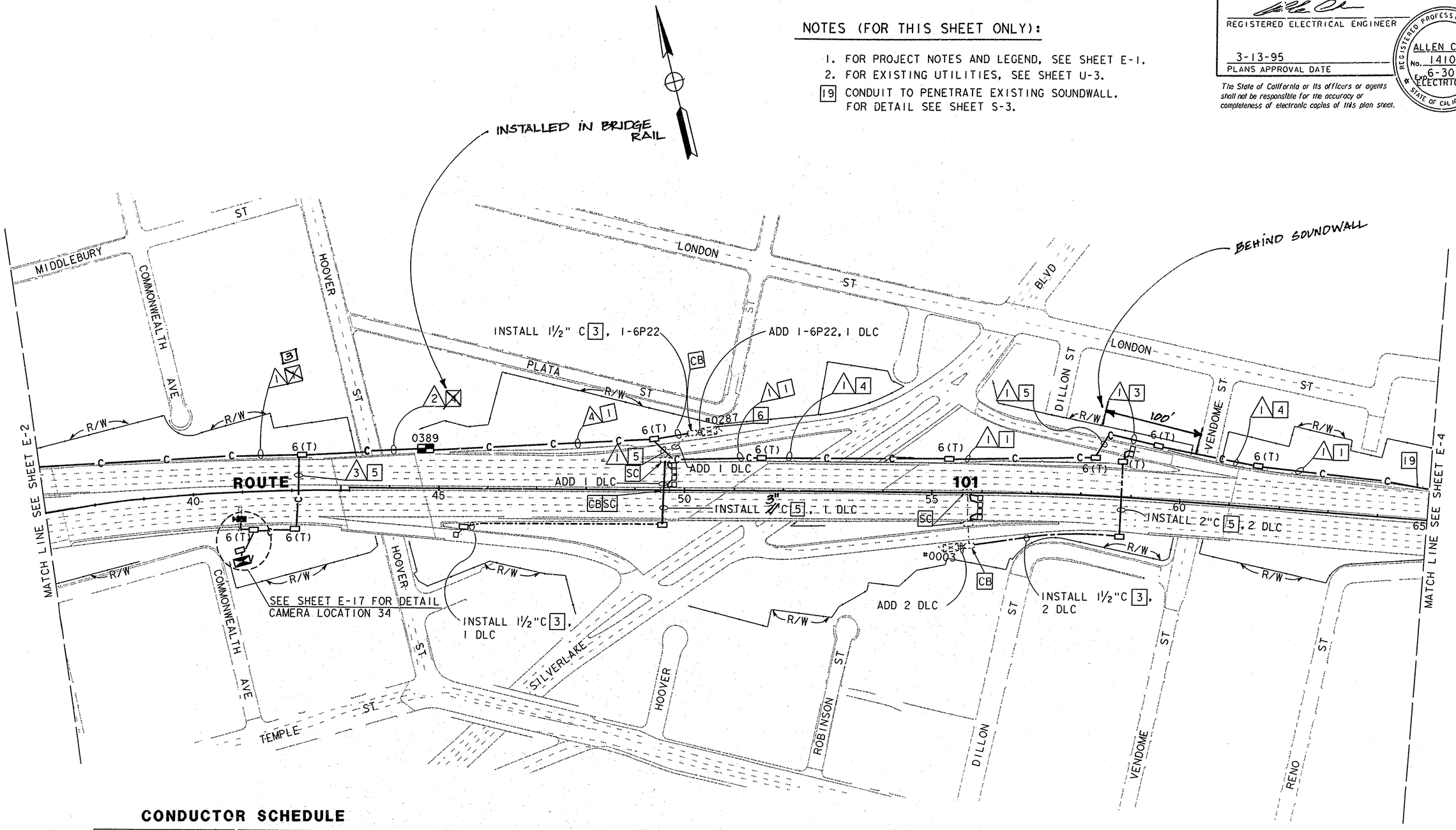
NOTES (FOR THIS SHEET ONLY):

1. FOR PROJECT NOTES AND LEGEND, SEE SHEET E-1.
2. FOR EXISTING UTILITIES, SEE SHEET U-3.

[19] CONDUIT TO PENETRATE EXISTING SOUNDWALL. FOR DETAIL SEE SHEET S-3.



CONDUCTOR SCHEDULE

CONDUCTOR TYPE	CONDUCTOR RUN 1			CONDUCTOR RUN 2			CONDUCTOR RUN 3			CONDUCTOR RUN 4		
50P22 CABLE			1			1						1
6P22 CABLE						1		1				1
2SMFO						1		1				
60SMFO	1			1						1		
12SMFO		1			1						1	
#4 POWER CABLE												
DLC												
INNERDUCT	1	1		1	1					1	1	
CONDUIT SIZE	4"			4"			2"			4"		

AS-BUILT
Contract No. 07- 1186C4
Resident Engineer: AMOS, H.
Completion Date: 08/21/1998

CCTV AND COMMUNICATIONS SYSTEM ROUTING

SCALE : 1" = 100'

NOTE : THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

E-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans IVHS DEVELOPMENT
PROJECT ENGINEER ALLEN CHEN
CALCULATED/DESIGNED BY AL DATE 5/94 REVISED BY
CHECKED BY AC 6/94 DATE REVISED

LAST REVISION 08-31-94 TIME PLOTTED => 18-MAR-1995 11:53

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3
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DGN FILE => ZH3:[330004]71186CU03.DGN
CU 07396
EA 1186C1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	101	0.1/4.5	31	83

REGISTERED ELECTRICAL ENGINEER

3-13-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ALLEN CHEN No. 14106 Exp. 6/30/97 ELECTRICAL STATE OF CALIFORNIA

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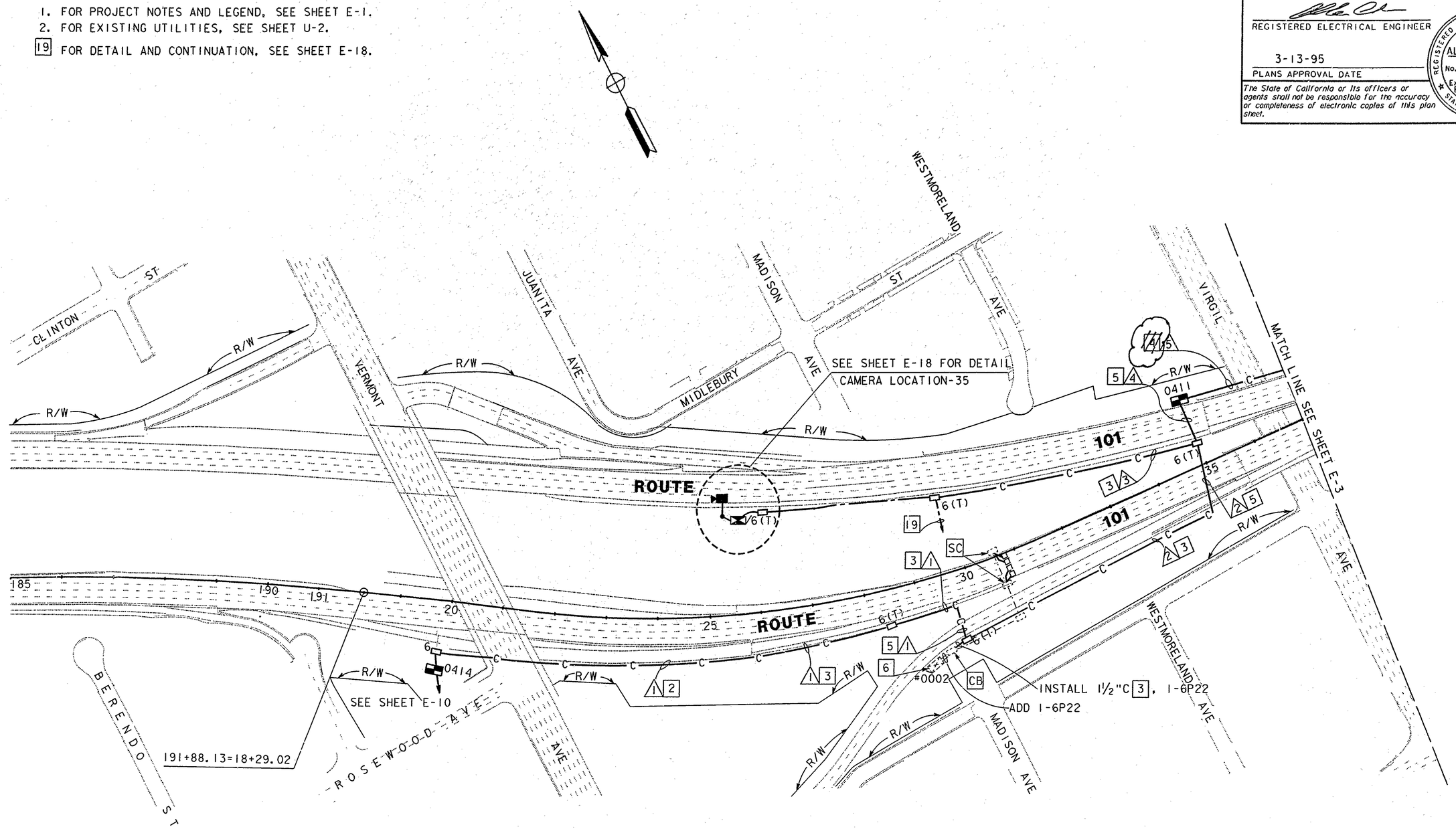
NOTES (THIS SHEET ONLY):

1. FOR PROJECT NOTES AND LEGEND, SEE SHEET E-1.
2. FOR EXISTING UTILITIES, SEE SHEET U-2.

[19] FOR DETAIL AND CONTINUATION, SEE SHEET E-18.



CONDUCTOR SCHEDULE

CONDUCTOR TYPE	CONDUCTOR RUN 1			2			3			4			5		
50P22 CABLE															1
6P22 CABLE						1		1				2			
2SMFO								1				1			
60SMFO	1			1						1			1		
12SMFO		1			1						1			1	
DLC															
INNERDUCT	1	1		1	1					1	1		1	1	
CONDUIT SIZE	4"			4"			2"			4/*3"			4"		

(* EXISTING TO BE REUSED)

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL ONLY

AS-BUILT
Contract No. 07- 1186C4
Resident Engineer: AMOS, H.
Completion Date: 08/21/1998

CCTV AND COMMUNICATIONS SYSTEM ROUTING

SCALE: 1"=100'

E-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans IVHS DEVELOPMENT

PROJECT ENGINEER ALLEN CHEN

CALCULATED/DESIGNED BY AL | CHECKED BY AC | DATE | REVISED BY | DATE REVISED

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

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CU 07396 | EA 1186C1

LST REVISION 08-31-94 | TIME PLOTTED => 18-MAR-1995 14:34

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	101	R4.4/R17.1	68	154

REGISTERED ELECTRICAL ENGINEER 2/17/95

10-10-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ELIA G. SAGHIR No. E014922 Exp. 6/30/95 ELECTRICAL STATE OF CALIFORNIA

NATIONAL ENGINEERING TECHNOLOGY
14320 FIRESTONE BLVD., SUITE 100
LA MIRADA, CA 90638

IN ASSOCIATION WITH:

RAYTHEON INFRASTRUCTURE SERVICES, INC.
ABRATIQUE AND ASSOCIATES, INC.

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.

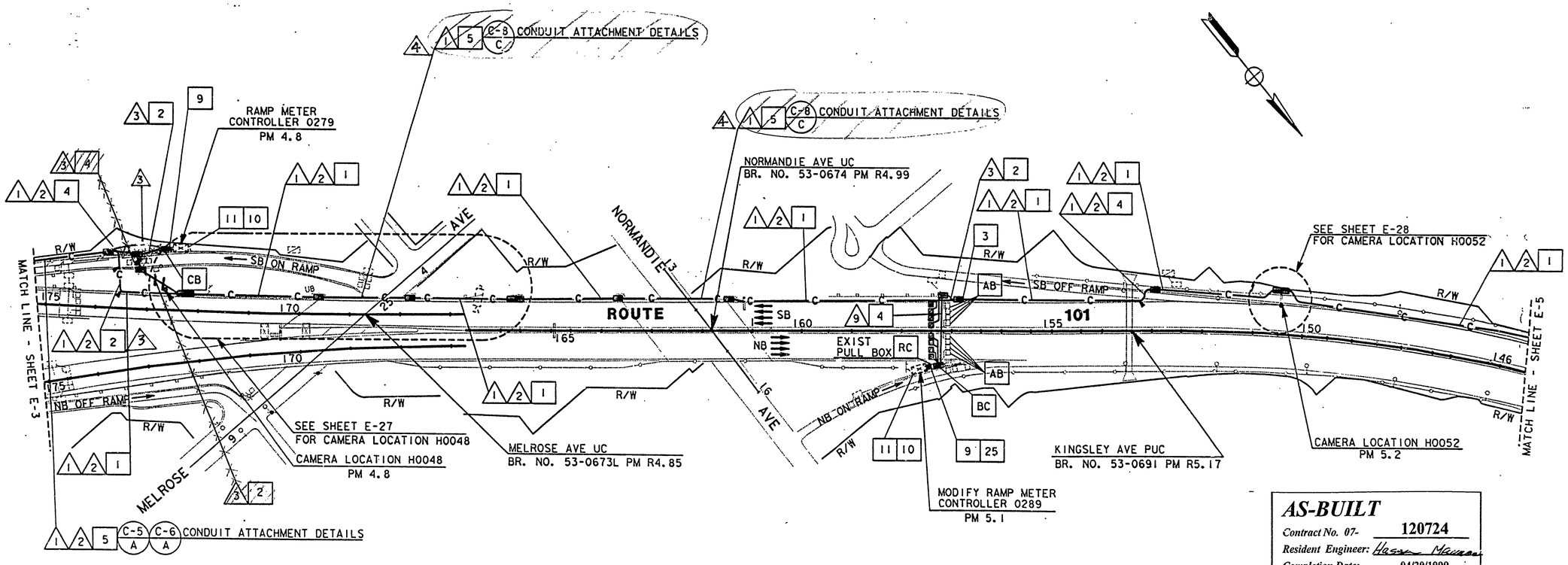
PROJECT NOTES: (THIS SHEET ONLY)

1. INSTALL CONDUIT(S) IN TRENCH IN PAVED SHOULDER. MAINTAIN A MINIMUM DISTANCE OF 4 FEET FROM EDGE OF TRAVELWAY. SEE SHEET E-52 FOR DETAILS.
2. INSTALL CONDUIT(S) IN TRENCH IN SOIL OFF OF THE SHOULDER. SEE SHEET E-51 FOR DETAILS.
3. INSTALL COMMUNICATION PULL BOX WITH TWISTED-PAIR SPLICE CLOSURE. SEE SHEETS E-55 AND E-56 FOR DETAILS.
4. JACK RIGID STEEL CONDUIT(S) UNDER ROADWAY. SEE SHEET E-53 FOR DETAILS.
5. INSTALL FIBERGLASS REINFORCED EPOXY (FRE) CONDUIT(S) ON STRUCTURE. SEE SHEETS C-4 TO C-11 FOR DETAILS.
9. ADD CABLE(S) AND CONNECT TO CONTROLLER.
10. INSTALLTELEPHONE BRIDGE AND 12-PAIR TERMINAL BLOCK IN CONTROLLER CABINET. SEE SHEETS E-58 AND E-60 FOR DETAILS.
11. DISCONNECT EXISTING TELCO DEMARCATION CABLE ONLY AFTER TESTING ALL INSTALLED EQUIPMENT, VERIFYING THE INSTALLATION IS OPERATIONAL AND GETTING APPROVAL FROM THE ENGINEER.
25. IDENTIFY AND RC EXISTING DLC CONNECTING TO ABANDONED LOOPS IN THIS PROJECT. ADD NEW DETECTOR LOOP CABLE(S) THROUGH EXISTING CONDUIT INTO THE EXISTING CABINET.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUCTOR TYPE	FUNCTION	1	2	3	4	9	4		
50P22 CABLE	DATA/PHONE	1					1		
6P22 CABLE	DATA/PHONE				1	1			
48 SMFO CABLE	VIDEO/DATA		1					1	
12 SMFO CABLE	SH VIDEO			1					1
DLC	RAMP/COUNT					4			
	INNERDUCT		1¼"	1¼"				1¼"	1¼"
CONDUIT	SIZE	4"		4"	2"	2"	2"**	3"**	

** EXISTING TO BE REUSED
CHANGED PER CCO #6



AS-BUILT
Contract No. 07- 120724
Resident Engineer: Hassan Mansour
Completion Date: 04/20/1999

LOOP DETECTOR, CCTV AND COMMUNICATION SYSTEM ROUTING

SCALE: 1"=100'

NOTE: FOR LEGEND AND PROJECT NOTES SEE SHEETS E-1 AND E-2.
THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

E-4

REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY	DATE
ES	2/95
CHECKED BY	
JZ	5/95

PROJECT ENGINEER: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

XXXXXXXXXXXXXXXXXXXXXXXXXXXX

LAST REVISION 00-00-00

TIME PLOTTED => 17-OCT-1995 10:17

FORM DC-CT-92-PF (REV. 3/88)

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DGN FILE => /usr/trmarlak/P2/712072u04.

CU 07387 EA 120721

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	101	R4.4/R17.1	72	154

REGISTERED ELECTRICAL ENGINEER 2/17/95

10-10-95
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ELIA G. SAGHIR No. E014922 Exp. 6/30/95 ELECTRICAL STATE OF CALIFORNIA

NATIONAL ENGINEERING TECHNOLOGY
14320 FIRESTONE BLVD., SUITE 100
LA MIRADA, CA 90638

IN ASSOCIATION WITH:

RAYTHEON INFRASTRUCTURE SERVICES, INC.
ABRATIQUE AND ASSOCIATES, INC.

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PROJECT NOTES: (THIS SHEET ONLY)

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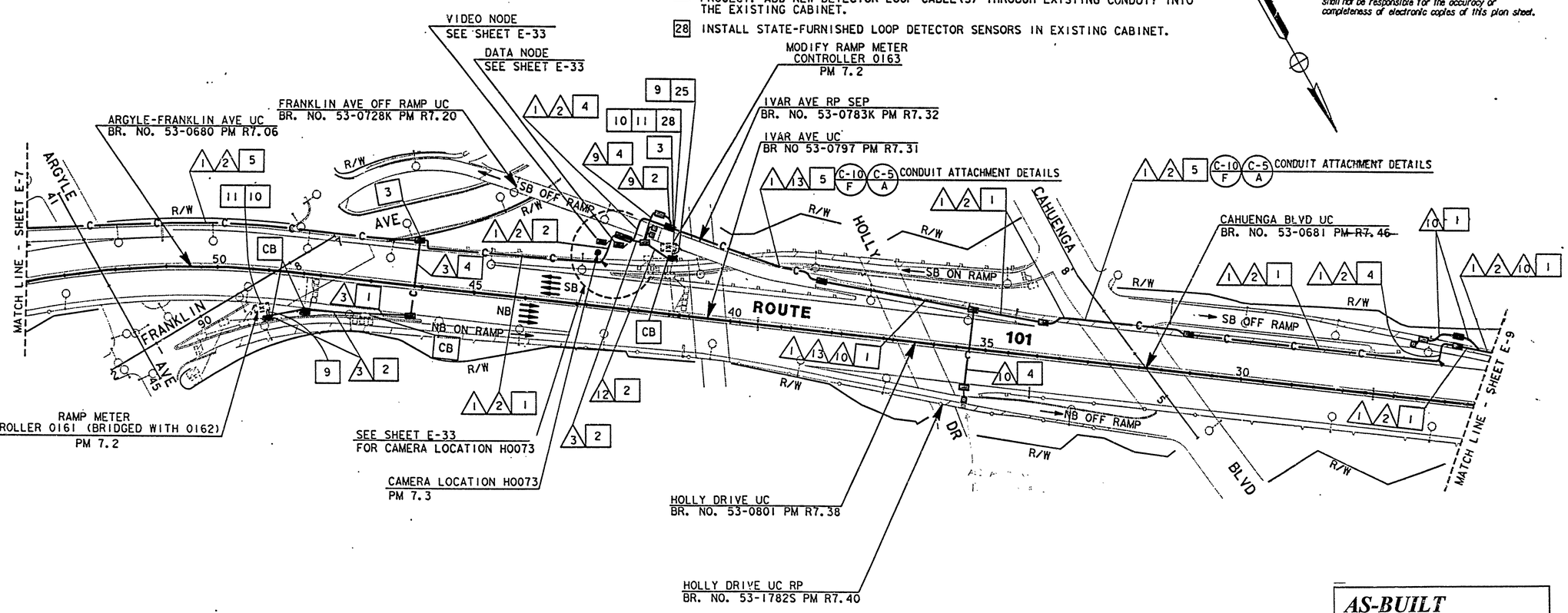
11. DISCONNECT EXISTING TELCO DEMARCATION CABLE ONLY AFTER TESTING ALL INSTALLED EQUIPMENT, VERIFYING THE INSTALLATION IS OPERATIONAL AND GETTING APPROVAL FROM THE ENGINEER.
25. IDENTIFY AND RC EXISTING DLC CONNECTING TO ABANDONED LOOPS IN THIS PROJECT. ADD NEW DETECTOR LOOP CABLE(S) THROUGH EXISTING CONDUIT INTO THE EXISTING CABINET.
28. INSTALL STATE-FURNISHED LOOP DETECTOR SENSORS IN EXISTING CABINET.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUCTOR TYPE	FUNCTION	1			2	3	8	9	10	12	13		
50P22 CABLE	DATA /PHONE	1											
6P22 CABLE	DATA /PHONE					1				1			
48 SMFO CABLE	VIDEO/DATA		1										
12 SMFO CABLE	SH VIDEO			1			2						
DLC	RAMP/COUNT						1	1	1	3			1
	INNERDUCT		1¼"	1¼"				1¼"			1¼"	1¼"	1¼"
CONDUIT	SIZE		4"		4"	2"	2"	3"	2"	2"	4"		



AS-BUILT
Contract No. 07- 120724
Resident Engineer: MANNAA, H.
Completion Date: 04/20/1999

LOOP DETECTOR, CCTV AND COMMUNICATION SYSTEM ROUTING

SCALE: 1"=100'

E-8

NOTE: FOR LEGEND AND PROJECT NOTES SEE SHEETS E-1 AND E-2.
THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

DATE	REVISED BY	DATE REVISED
2/95	ES	JZ 5/95

CALCULATED/DESIGNED BY: ES
CHECKED BY: JZ
PROJECT ENGINEER: PAT SULLIVAN

XXXXXXXXXXXXXXXXXXXXXXXXXX STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
TIME PLOTTED => 17-OCT-1995 08:29

FORM DC-CF-92-PF (REV. 3/88)
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3
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DGN FILE => /usr/mikes1/P0/712072u08.dg
CU 07387
EA 120721

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