INFORMATION HANDOUT

For Contract No. 07-4T8304
At 07-Ven-118-T19.8

Identified by
Project ID 0715000338

MATERIALS INFORMATION

Fiber optic system as-built drawings

List of the preconstruction operational status-check results

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	Ven	23,118	R10.9/R11.5, M8.8/R21.0	294	472

REGISTERED CIVIL ENGINEER

9-4-90
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — PAT SULLIVAN No. C30912 Exp. 3/31/92 CIVIL — STATE OF CALIFORNIA

LIGHTING LEGEND

- TYPE 15 LIGHTING STANDARD TO BE INSTALLED WITH 12' MAST ARM, 200 WATT HIGH PRESSURE SODIUM LUMINAIRE, UNLESS OTHERWISE NOTED.
- TYPE 30 LIGHTING STANDARD TO BE INSTALLED WITH 15' MAST ARM, 310 WATT HIGH PRESSURE SODIUM LUMINAIRE
- RC LUMINAIRE AND WOOD POLE
- RS ELECTROLIER. RC FOUNDATION.
- EXISTING ELECTROLIER TO REMAIN, UNLESS OTHERWISE NOTED.
- (r) RL EXISTING TYPE 30 LIGHTING STANDARD WITH 310 WATT HIGH PRESSURE SODIUM LUMINAIRE AND SLIP BASE. RC FOUNDATION.
- (R) REINSTALL EXISTING TYPE 30 LIGHTING STANDARD WITH 310 WATT HPS LUMINAIRE AND SLIP BASE ON NEW FOUNDATION.
- (F) ANCHOR BOLTS AND ANCHOR PLATE TO BE INSTALLED FOR FUTURE INSTALLATION OF TYPE 15 LIGHTING STANDARD IN BRIDGE STRUCTURE.
- ANCHOR BOLTS AND ANCHOR PLATE TO BE INSTALLED FOR FUTURE INSTALLATION OF TYPE 21 LIGHTING STANDARD IN BRIDGE STRUCTURE.
- 100 WATT HIGH PRESSURE SODIUM FLUSH SOFFIT LUMINAIRE TO BE INSTALLED. (DETAIL F, ES-7E)
- FLUSH SOFFIT LUMINAIRE (SHELL AND DOOR FRAME ONLY) TO BE INSTALLED.
- MERCURY VAPOR SIGN ILLUMINATION EQUIPMENT TO BE INSTALLED.
- EXISTING SIGN ILLUMINATION EQUIPMENT TO REMAIN.
- RC SIGN ILLUMINATION EQUIPMENT
- TERMINATE AND CAP CONDUIT 18" BELOW FINISHED GRADE.
- RUN CONDUIT DOWN ABUTMENT AND EXTEND 18" BELOW FINISHED GRADE TO PULL BOX.
- PLUG FLUSH CONDUIT AT FACE OF STRUCTURE FOR FUTURE BRIDGE MOUNT SIGN. (DETAIL C, ES-7B)
- — S — SPRINKLER CONTROL CONDUIT, 2" DIAMETER, TO BE INSTALLED.
- LIGHTING CONDUIT TO BE INSTALLED, 1 1/2" DIAMETER, UNLESS OTHERWISE NOTED.
- TRAFFIC SIGNAL CONDUIT 1 1/2" DIAMETER TO BE INSTALLED.
- — C — COMMUNICATION CONDUIT TO BE INSTALLED, 2" DIAMETER.
- EXISTING LIGHTING CONDUIT TO BE ABANDONED.
- NO. 5 PULL BOX TO BE INSTALLED, UNLESS OTHERWISE NOTED.
- EXISTING PULL BOX TO REMAIN OR PULL BOX INSTALLED IN STRUCTURE.
- TYPE 9A PULL BOX TO BE INSTALLED.
- RC PULL BOX

WIRING DIAGRAM LEGEND

- 200W HPS LUMINAIRE.
- 310W HPS LUMINAIRE.
- EXISTING 310 W HPS LUMINAIRE.
- MERCURY VAPOR SIGN ILLUMINATION EQUIPMENT.
- EXISTING SIGN ILLUMINATION EQUIPMENT.
- 100W HPS SOFFIT LUMINAIRE.
- 600 V. CONDUCTORS TO BE INSTALLED, AWG SIZE AS NOTED.
- SPLICE CONDUCTORS.
- EXISTING CONDUCTOR TO REMAIN.
- RC CONDUCTOR.
- EXISTING 200W HPS LUMINAIRE.

PROJECT NOTES

1. INSTALL TYPE H SERVICE RISER PER SCE REQUIREMENTS.
   (3) SC 3 - SIGN
2. INSTALL TYPE X ~~PHOTOELECTRIC~~ CONTROL. (SEE ES-32B)
3. INSTALL 3" SCHEDULE 80 PVC CONDUIT AT A DEPTH OF 36" WITH 1/4" DIAMETER PULL ROPE. STUB OUT AT SCE POLE, 3" ABOVE FINISHED GRADE. QUADRANT OF POWER POLE TO BE AS DIRECTED BY SCE.
4. CORE AND INSTALL 3" CONDUIT. RECONCRETE AROUND CONDUIT. CONTACT SCE INSPECTOR AT (805)490-7087, 3 DAYS IN ADVANCE, FOR ENTRY INTO VAULT OR HANDHOLE.
5. #6 PULL BOX, COVER TO BE IDENTIFIED WITH "EDISON" IN 1/2" MIN. BLOCK RECESSED LETTERS.

GENERAL NOTES

1. FOR ABBREVIATIONS AND SYMBOLS NOT SHOWN ON THIS SHEET, SEE STANDARD PLANS.
2. BEFORE REMOVING OR MODIFYING ANY EXISTING ELECTRICAL FACILITIES, THE CONTRACTOR SHALL GIVE 72 HOURS ADVANCE NOTICE IN WRITING TO THE ENGINEER.
3. TEMPORARY WOOD POLES, WHEN NO LONGER NEEDED AND EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND AS SUCH SHALL BE REMOVED FROM THE SITE OF WORK, UNLESS OTHERWISE NOTED.
4. SERVICE EQUIPMENT ENCLOSURE SHALL BE LOCATED 5' MINIMUM FROM THE POWER POLE OR VAULT.
5. ELECTRICAL SERVICE INSTALLATIONS SHALL MEET THE REQUIREMENTS OF SOUTHERN CALIFORNIA EDISON COMPANY (SCE).
6. CONDUCTORS FROM POWER POLE (OR VAULT) TO SERVICE ENCLOSURE WILL BE INSTALLED BY SCE.
7. TRENCH FOR CONDUIT INSTALLATION BETWEEN POWER POLE (OR VAULT) AND SERVICE ENCLOSURE SHALL BE LEFT OPEN FOR INSPECTION AND APPROVAL BY SCE BEFORE BACKFILL

AS BUILT
Contract No. 07- 050294
Resident Engineer: Gary Ethier
Completion Date: December 6, 1993

LIGHTING AND SIGN ILLUMINATION

(3) REVISED FOR ADDENDUM NO.3 DATED JANUARY 4, 1991

E-1

CALCULATED/DESIGNED BY	GG	DATE 1/90	REVISED BY
CHECKED BY	LH	1/90	DATE REVISED

PROJECT ENG. L. HONG
SENIOR ENGINEER PETER WONG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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

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

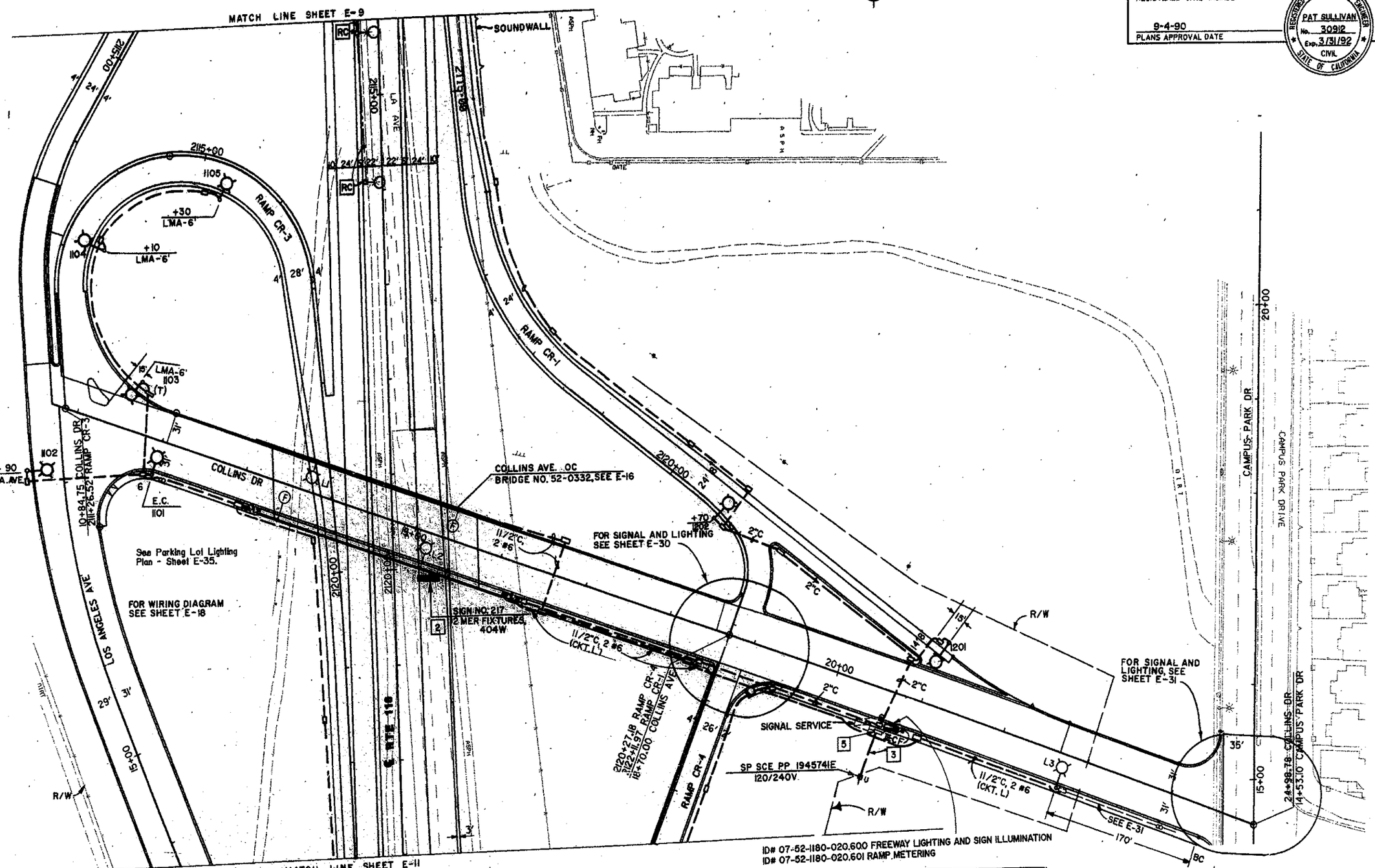
CU 07203 | EA 050291

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	Ven	23,118	R10.9/R11.5, M18.8/M21.0	303	472

REGISTERED CIVIL ENGINEER

9-4-90
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PAT SULLIVAN
No. 30912
Exp. 3/31/92
CIVIL
STATE OF CALIFORNIA



AS BUILT 050294
Contract No. 07-
Resident Engineer: Gary Ethier
Completion Date: December 6, 1993

LIGHTING AND SIGN ILLUMINATION

SCALE: 1" = 50'

E-10

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL ONLY

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

CU	07203	EA 050291

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

PROJECT ENGINEER LARRY HONG
SENIOR ENGINEER PETER WONG

CALCULATED/DESIGNED BY
CHECKED BY LH
DATE 6/89 REVISED BY
10/89 DATE REVISED
GG 4/90

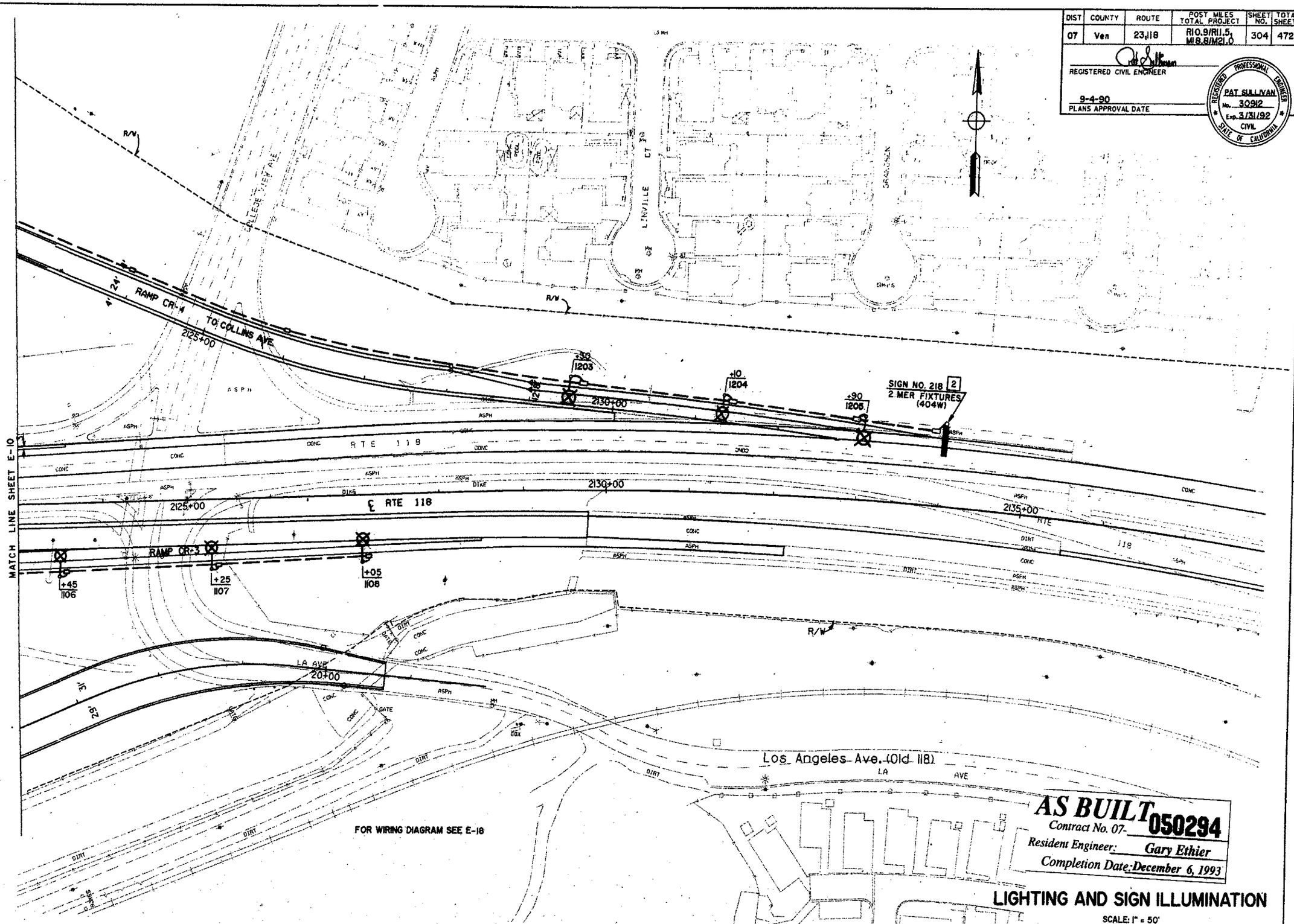
FORM DC-OE-92-PF (REV. 3/88)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	Ven	23,118	R10.9/R11.5, M18.8/M21.0	304	472

REGISTERED CIVIL ENGINEER

9-4-90
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PAT SULLIVAN
No. 30912
Exp. 3/31/92
CIVIL
STATE OF CALIFORNIA



AS BUILT
Contract No. 07-050294
Resident Engineer: Gary Ethier
Completion Date: December 6, 1993

LIGHTING AND SIGN ILLUMINATION

SCALE: 1" = 50'

E-11

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL ONLY.

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

CU	07203	EA	050291

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

PROJECT ENG
LARRY HONG
SENIOR ENGINEER
PETER WONG

CALCULATED/ DESIGNED BY		DATE 6/89	REVISED BY
CHECKED BY	LH	11/89	DATE REVISED

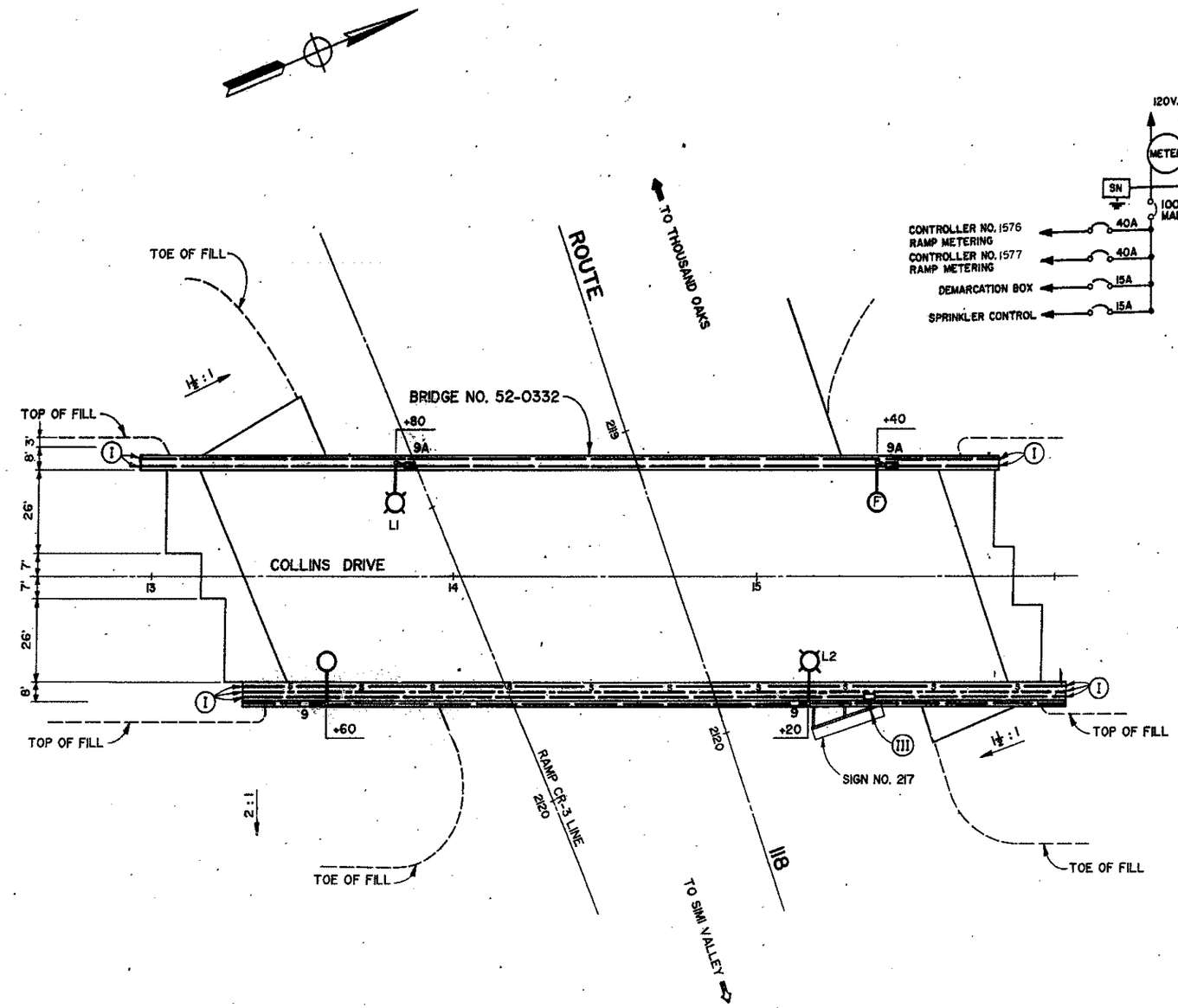
FORM DC-OE-92-PF (REV. 3/88)

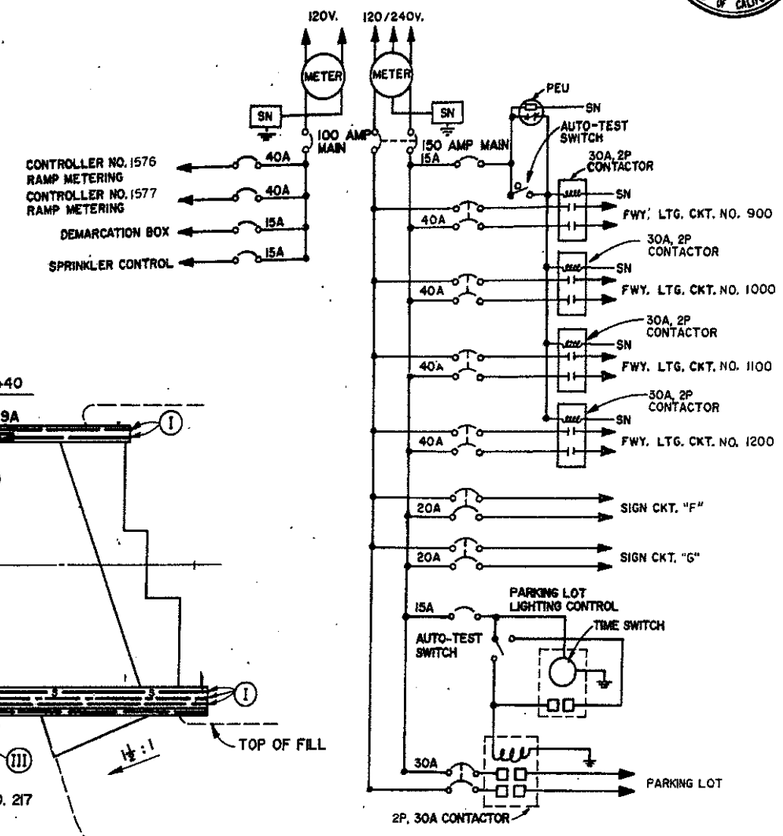
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	Ven	23,118	R10.9/R11.5, M18.8/R21.0	309	472

REGISTERED CIVIL ENGINEER

9-4-90
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PAT SULLIVAN
No. 30912
Exp. 3-31-92
CIVIL
STATE OF CALIFORNIA





120/240V METERED TYPE III-CF SERVICE EQUIPMENT ENCLOSURE

COLLINS DRIVE

LIGHTING

COLLINS DRIVE OVERCROSSING

SCALE : 1" = 20'

AS BUILT
Contract No. 07-050294
Resident Engineer: Gary Ethier
Completion Date: December 6, 1993

E-16

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL ONLY

CALCULATED/DESIGNED BY	GG	DATE 10/89	REVISED BY	GG	GG
CHECKED BY	LH	10/89	DATE REVISED	12/89	4/90

PROJECT ENGR L. HONG
SENIOR ENGINEER P. WONG

STATE OF CALIFORNIA · DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

FORM DC-OE-92-PF (REV. 1/88)

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

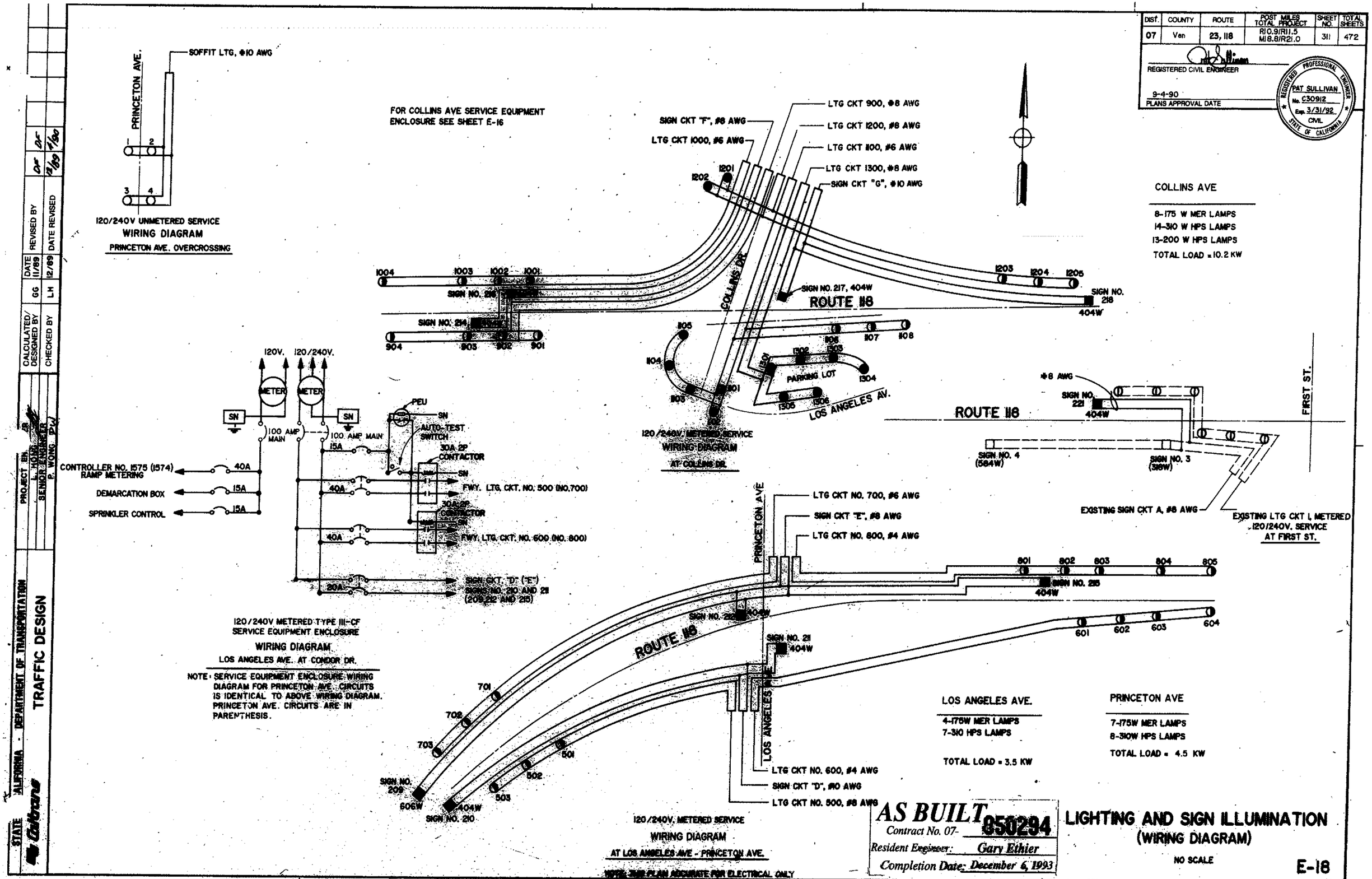
CU 07203 | EA 050291

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	Ven	23, 118	R10.9/R11.5 M18.8/R21.0	311	472

REGISTERED CIVIL ENGINEER

9-4-90
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PAT SULLIVAN No. C30912 Exp. 3/31/92 CIVIL STATE OF CALIFORNIA



AS BUILT
Contract No. 07- 050294
Resident Engineer: Gary Ethier
Completion Date: December 6, 1993

LIGHTING AND SIGN ILLUMINATION (WIRING DIAGRAM)

NO SCALE

E-18

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

PROJECT ENGINEER L. HONG
SENIOR ENGINEER P. WONG

CALCULATED/DESIGNED BY	GG	DATE 11/89	REVISED BY	DF	DF
CHECKED BY	LH	12/89	DATE REVISED	12/89	4/90

FORM DC-06-92-PF (REV. 1/88)

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

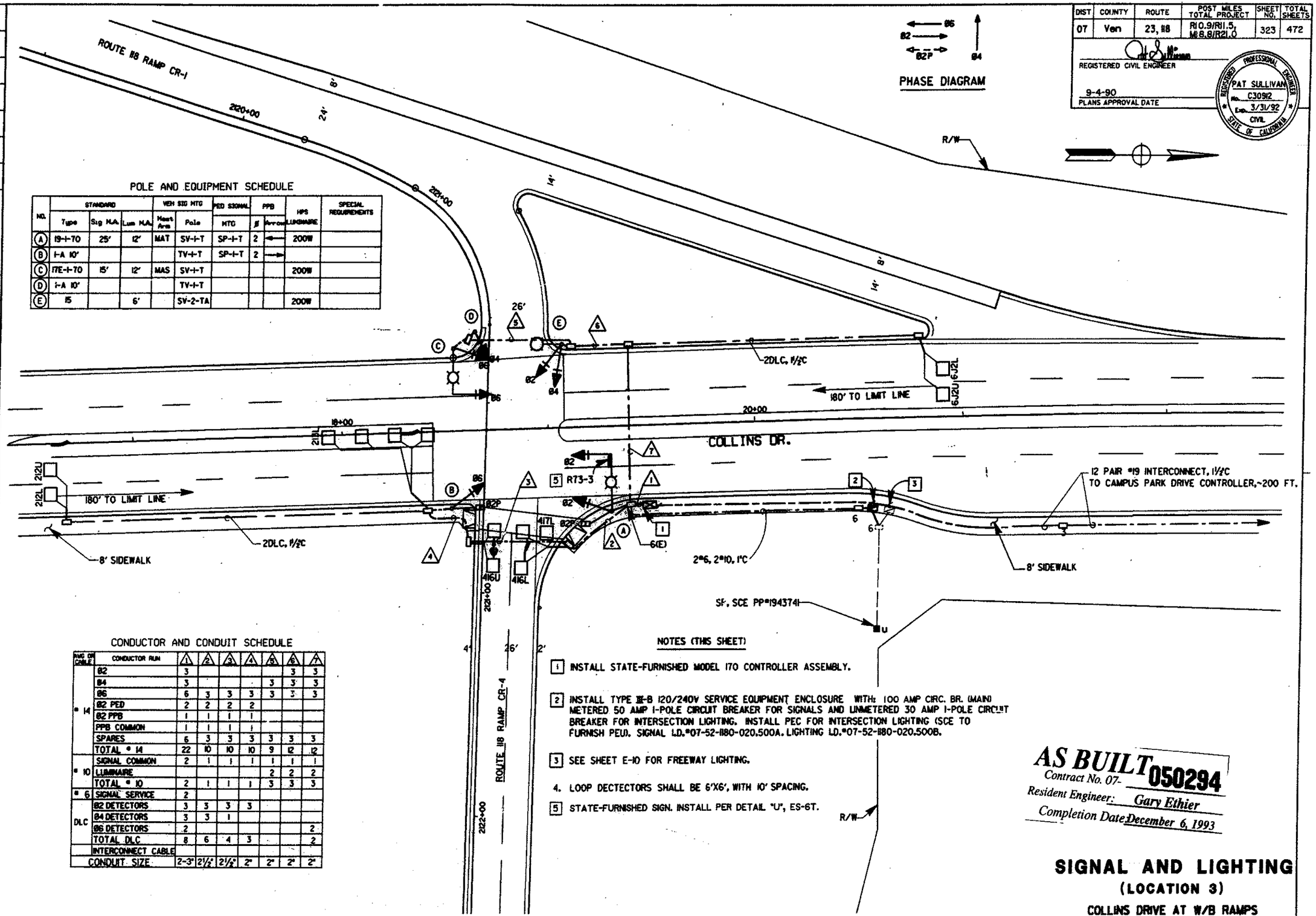
CU 07203 | EA 050291

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	Ven	23, 118	R10.9/R11.5, M18.8/R21.0	323	472

REGISTERED CIVIL ENGINEER

9-4-90
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PAT SULLIVAN
No. C30912
Exp. 3/31/92
CIVIL
STATE OF CALIFORNIA



POLE AND EQUIPMENT SCHEDULE

NO.	STANDARD Type	Sig M.A.	Lum M.A.	VEH SIG MTG Mast Arm	Pole	PED SIGNAL MTG	PPB Ø	Arrow	HPS LUMINAIRE	SPECIAL REQUIREMENTS
A	19-1-70	25'	12'	MAT	SV-1-T	SP-1-T	2	←	200W	
B	1-A 10'				TV-1-T	SP-1-T	2	→		
C	17E-1-70	15'	12'	MAS	SV-1-T				200W	
D	1-A 10'				TV-1-T					
E	15		6'		SV-2-TA				200W	

CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	CONDUCTOR RUN	1	2	3	4	5	6	7
#14	Ø2	3					3	3
	Ø4	3				3	3	3
	Ø6	6	3	3	3	3	3	3
	Ø2 PED	2	2	2	2			
	Ø2 PPB	1	1	1	1			
	PPB COMMON	1	1	1	1			
	SPARES	6	3	3	3	3	3	3
	TOTAL #14	22	10	10	10	9	12	12
#10	SIGNAL COMMON	2	1	1	1	1	1	1
	LUMINAIRE					2	2	2
	TOTAL #10	2	1	1	1	3	3	3
#6	SIGNAL SERVICE	2						
DLC	Ø2 DETECTORS	3	3	3	3			
	Ø4 DETECTORS	3	3	1				
	Ø6 DETECTORS	2						2
	TOTAL DLC	8	6	4	3			2
	INTERCONNECT CABLE							
	CONDUIT SIZE	2-3"	2½"	2½"	2"	2"	2"	2"

NOTES (THIS SHEET)

1. INSTALL STATE-FURNISHED MODEL 170 CONTROLLER ASSEMBLY.
2. INSTALL TYPE III-B 120/240V SERVICE EQUIPMENT ENCLOSURE WITH: 100 AMP CIRC. BR. (MAIN) METERED 50 AMP 1-POLE CIRCUIT BREAKER FOR SIGNALS AND UNMETERED 30 AMP 1-POLE CIRCUIT BREAKER FOR INTERSECTION LIGHTING. INSTALL PEC FOR INTERSECTION LIGHTING (SCE TO FURNISH PEU). SIGNAL I.D.#07-52-1180-020.500A. LIGHTING I.D.#07-52-1180-020.500B.
3. SEE SHEET E-10 FOR FREEWAY LIGHTING.
4. LOOP DECTECTORS SHALL BE 6'X6', WITH 10' SPACING.
5. STATE-FURNISHED SIGN. INSTALL PER DETAIL "U", ES-6T.

AS BUILT
Contract No. 07-050294
Resident Engineer: Gary Ethier
Completion Date: December 6, 1993

SIGNAL AND LIGHTING
(LOCATION 3)
COLLINS DRIVE AT W/B RAMPS

SCALE: 1"= 20'

E-30

NOTE : THIS PLAN ACCURATE FOR ELECTRICAL ONLY

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

CU 07203 | EA 050291

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC DESIGN
Caltrans

PROJECT ENGR LARRY HONG
SENIOR ENGINEER PETER WONG

CALCULATED/DESIGNED BY GGG DATE 10/89 REVISED BY
CHECKED BY LH 12/89 DATE REVISED

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

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	Ven	118, 23	R10.9/R11.5, M8.8/R21.0	324	472

REGISTERED CIVIL ENGINEER

9-4-90
PLANS APPROVAL DATE

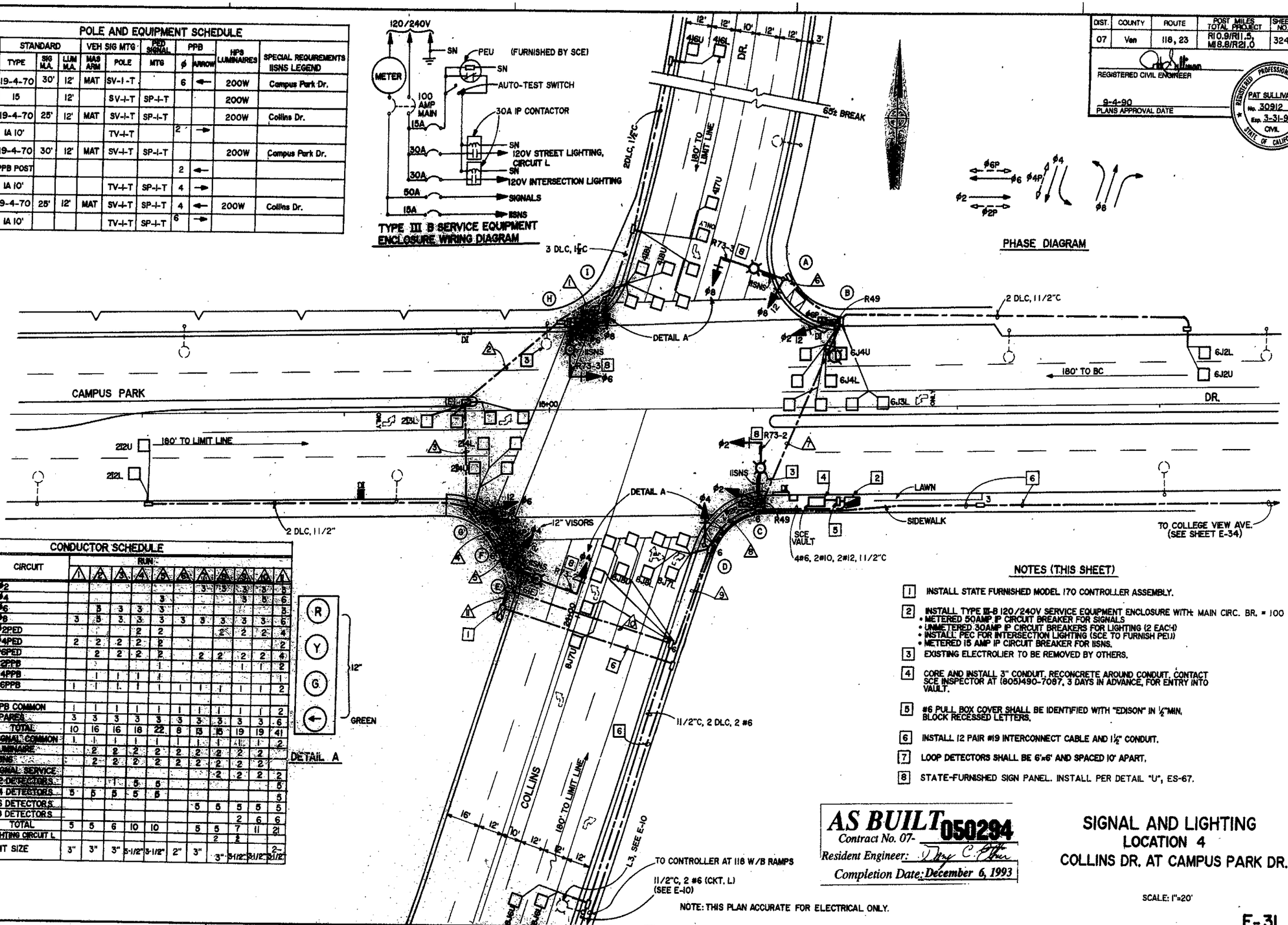
REGISTERED PROFESSIONAL ENGINEER — PAT SULLIVAN No. 30912 Exp. 3-31-92 CIVIL — STATE OF CALIFORNIA

POLE AND EQUIPMENT SCHEDULE

NO.	STANDARD TYPE	SIG M.A.	LUM M.A.	VEH SIG MTG MAS ARM	POLE	PED SIGNAL MTG	PPB ϕ	PPB ARROW	HPS LUMINAIRES	SPECIAL REQUIREMENTS IISNS LEGEND
A	19-4-70	30'	12'	MAT	SV-I-T		6	←	200W	Campus Park Dr.
B	15		12'		SV-I-T	SP-I-T			200W	
C	19-4-70	25'	12'	MAT	SV-I-T	SP-I-T			200W	Collins Dr.
D	IA 10'				TV-I-T		2	→		
E	19-4-70	30'	12'	MAT	SV-I-T	SP-I-T			200W	Campus Park Dr.
F	PPB POST						2	←		
G	IA 10'				TV-I-T	SP-I-T	4	→		
H	19-4-70	25'	12'	MAT	SV-I-T	SP-I-T	4	←	200W	Collins Dr.
I	IA 10'				TV-I-T	SP-I-T	6	→		

TYPE III B SERVICE EQUIPMENT ENCLOSURE WIRING DIAGRAM

PHASE DIAGRAM



CONDUCTOR SCHEDULE

AWG	CIRCUIT	RUN 1	2	3	4	5	6	7	8	9	10	11
#14	ϕ2							3	3	3	3	3
	ϕ4					3				3	3	6
	ϕ6		3	3	3	3						3
	ϕ8	3	3	3	3	3	3	3	3	3	3	6
	ϕ2PED				2	2			2	2	2	4
	ϕ4PED	2	2	2	2	2						2
	ϕ6PED		2	2	2	2		2	2	2	2	4
	ϕ2PPB					1				1	1	2
	ϕ4PPB		1	1	1	1						1
	ϕ6PPB	1	1	1	1	1	1	1	1	1	1	2
	PPB COMMON	1	1	1	1	1	1	1	1	1	1	2
	SPARES	3	3	3	3	3	3	3	3	3	3	6
	TOTAL	10	16	16	18	22	8	13	15	19	19	41
#10	SIGNAL COMMON	1	1	1	1	1	1	1	1	1	1	2
	LUMINAIRE		2	2	2	2	2	2	2	2	2	
#12	IISNS		2	2	2	2	2	2	2	2	2	
#6	SIGNAL SERVICE											
DETECTOR CABLE	ϕ2 DETECTORS			1	5	5			2	2	2	2
	ϕ4 DETECTORS	5	5	5	5	5						5
	ϕ6 DETECTORS							5	5	5	5	5
	ϕ8 DETECTORS									2	6	6
	TOTAL	5	5	6	10	10		5	5	7	11	21
#6	LIGHTING CIRCUIT L								2	2		
CONDUIT SIZE		3"	3"	3"	3-1/2"	3-1/2"	2"	3"	3"	3-1/2"	3-1/2"	2-3-1/2"

DETAIL A

NOTES (THIS SHEET)

1. INSTALL STATE FURNISHED MODEL 170 CONTROLLER ASSEMBLY.
2. INSTALL TYPE III-B 120/240V SERVICE EQUIPMENT ENCLOSURE WITH: MAIN CIRC. BR. = 100 AMP
   - METERED 50AMP IP CIRCUIT BREAKER FOR SIGNALS
   - UNMETERED 30AMP IP CIRCUIT BREAKERS FOR LIGHTING (2 EACH)
   - INSTALL PEC FOR INTERSECTION LIGHTING (SCE TO FURNISH PEU)
   - METERED 15 AMP IP CIRCUIT BREAKER FOR IISNS.
3. EXISTING ELECTROLIER TO BE REMOVED BY OTHERS.
4. CORE AND INSTALL 3" CONDUIT. RECONCRETE AROUND CONDUIT. CONTACT SCE INSPECTOR AT (805)490-7087, 3 DAYS IN ADVANCE, FOR ENTRY INTO VAULT.
5. #6 PULL BOX COVER SHALL BE IDENTIFIED WITH "EDISON" IN ½"MIN. BLOCK RECESSED LETTERS.
6. INSTALL 12 PAIR #19 INTERCONNECT CABLE AND 1½" CONDUIT.
7. LOOP DETECTORS SHALL BE 6'x6' AND SPACED 10' APART.
8. STATE-FURNISHED SIGN PANEL. INSTALL PER DETAIL "U", ES-67.

AS BUILT 050294
Contract No. 07-
Resident Engineer: Tony C. Pham
Completion Date: December 6, 1993

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL ONLY.

SIGNAL AND LIGHTING
LOCATION 4
COLLINS DR. AT CAMPUS PARK DR.

SCALE: 1"=20'

E-31

PROJECT ENGINEER	LARRY HONG		
SENIOR ENGINEER	PETER WONG		
CALCULATED/DESIGNED BY	GG	DATE 10/89	REVISED BY GG 11/90
CHECKED BY	LH	12/89	DATE REVISED 4/90

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

FORM DC-OE-92-PF (REV. 1/88)

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

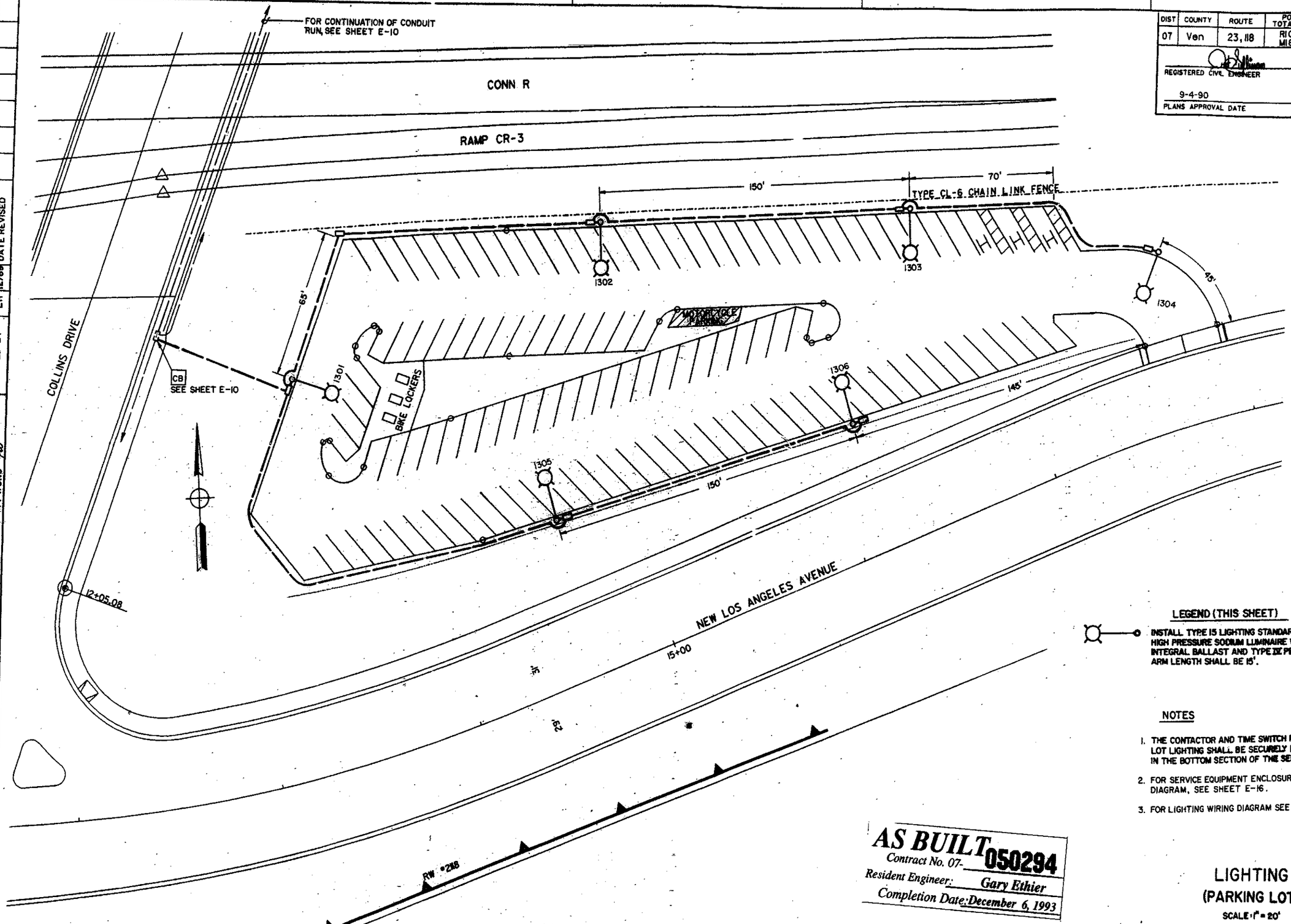
CU 07203 | EA 050291

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	Ven	23,118	R10.9/R11.5, M18.8/M21.0	328	472

REGISTERED CIVIL ENGINEER

9-4-90
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PAT SULLIVAN
No. C30912
Exp. 3/31/92
CIVIL
STATE OF CALIFORNIA



LEGEND (THIS SHEET)

INSTALL TYPE 15 LIGHTING STANDARD, 200W HIGH PRESSURE SODIUM LUMINAIRE WITH INTEGRAL BALLAST AND TYPE IV PEC. MAST ARM LENGTH SHALL BE 15'.

NOTES

1. THE CONTACTOR AND TIME SWITCH FOR PARKING LOT LIGHTING SHALL BE SECURELY MOUNTED IN THE BOTTOM SECTION OF THE SERVICE CABINET.
2. FOR SERVICE EQUIPMENT ENCLOSURE WIRING DIAGRAM, SEE SHEET E-16.
3. FOR LIGHTING WIRING DIAGRAM SEE SHEET E-18.

AS BUILT
Contract No. 07-050294
Resident Engineer: Gary Ethier
Completion Date: December 6, 1993

LIGHTING
(PARKING LOT)

SCALE: 1" = 20'

E-35

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL ONLY

FORM DC-OE-P2-PF (REV. 7/86)

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

CU 07203 | EA 050291

T7BVAX: ZGA2: [50,30]50291L13.DGN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

PROJECT ENGINEER L. HONG
SENIOR ENGINEER P. WONG

CALCULATED/DESIGNED BY DF | DATE 12/89 | REVISED BY
CHECKED BY LH | 12/89 | DATE REVISED

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	Ven	23,118	R10.9/R11.5, M18.8/R21.0	336	472

REGISTERED CIVIL ENGINEER

9-4-90
PLANS APPROVAL DATE

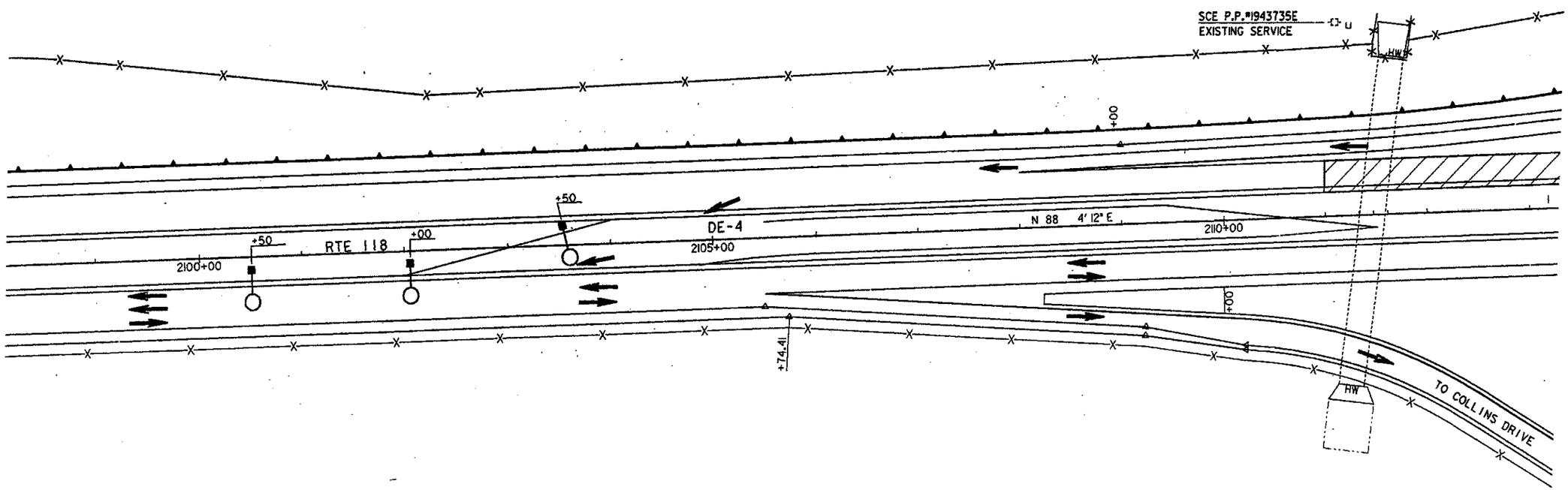
REGISTERED PROFESSIONAL ENGINEER PAT SULLIVAN No. C30912 Exp. 3/31/92 CIVIL STATE OF CALIFORNIA

LEGEND (TEMPORARY LIGHTING)

WOOD POLE TO BE INSTALLED WITH 12' MAST ARM, 200 WATT HPS LUMINAIRE AND INTEGRAL BALLAST MOUNTED 30' ABOVE PAVEMENT, AND TYPE L-2 OBJECT MARKER.

DIRECTION OF TRAVEL.

STAGE F CONSTRUCTION



NOTES (TEMPORARY LIGHTING)

1. TEMPORARY LIGHTING (LUMINAIRES, LAMPS, BALLASTS, MAST ARMS, SPAN WIRES, WOOD POLES, CABLES AND SERVICE) SHALL BE INSTALLED AND SUBSEQUENTLY REMOVED UPON ORDER OF THE ENGINEER.
2. TEMPORARY LIGHTING SHALL BE INSTALLED AND OPERATING PRIOR TO OPENING THE DETOUR TO TRAFFIC AND SHALL REMAIN IN OPERATION UNTIL THE DETOUR IS CLOSED TO TRAFFIC.
3. TEMPORARY LIGHTING SHALL BE MAINTAINED BY THE CONTRACTOR. INOPERATIVE LIGHTS OR CIRCUITS SHALL BE REPAIRED AND IN OPERATION WITHIN 24 HOURS OF NOTIFICATION BY THE ENGINEER.
4. THE CONTRACTOR SHALL ARRANGE WITH THE SERVING UTILITY TO COMPLETE SERVICE CONNECTIONS FOR THE TEMPORARY LIGHTING. COSTS FOR ENERGY, POWER LINE EXTENSION, IF ANY, AND SERVICE CONNECTION CHARGED BY THE SERVING UTILITY SHALL BE PAID BY THE CONTRACTOR.
5. UPON TERMINATION OF THE DETOUR, WHEN DIRECTED BY THE ENGINEER, TEMPORARY LIGHTING EQUIPMENT SHALL BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
6. FOR TYPICAL TEMPORARY LIGHTING INSTALLATION, SEE SHEET E-24.
7. PERMANENT LIGHTING CIRCUITS 9 AND 11 SHALL BE IN PLACE FOR STAGE F DETOUR. SEE LIGHTING PLANS E-9, E-10 AND E-11.

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL ONLY.

AS BUILT
Contract No. 07- 050294
Resident Engineer: Gary Ethier
Completion Date: December 6, 1993

LIGHTING (TEMPORARY) STAGE F

SCALE: 1"=50'

E-43

CALCULATED/ DESIGNED BY	G.G.	DATE 12/89	REVISED BY	G.G.
CHECKED BY	L.H.	3/90	DATE REVISED	3/90

PROJECT ENGINE
LARRY HONG
SENIOR ENGINEER
PETER WONG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

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

CU 07203 EA 050291

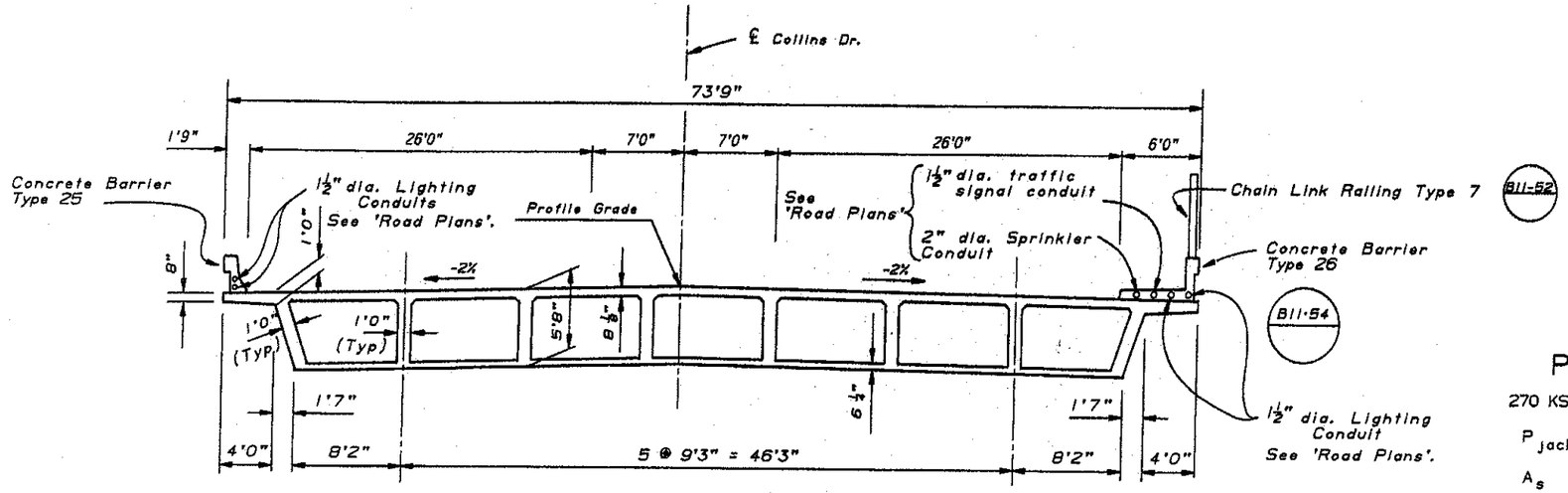
FORM DC-OE-92-PF (REV. 3/88) 05029E39

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	Ven	23, 118	R10.9/R11.5, M18.8/R21.0	468	472

REGISTERED ENGINEER - CIVIL 4-26-90

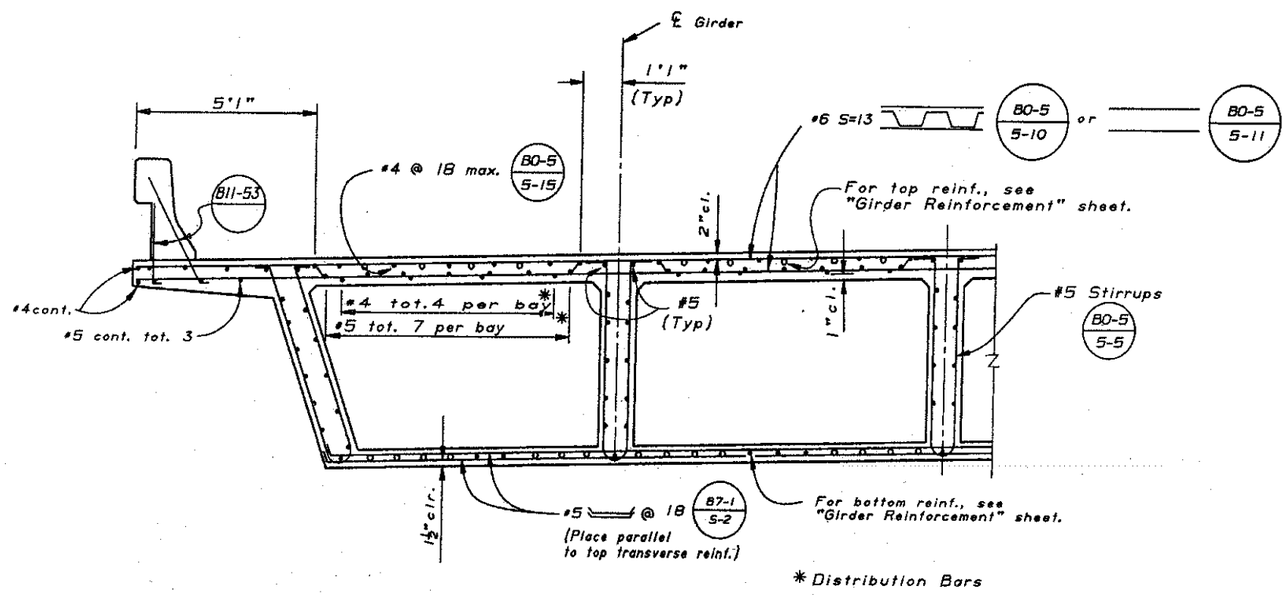
REGISTERED PROFESSIONAL ENGINEER M. Guest No. 41056 Exp. 3-31-91 CIVIL STATE OF CALIFORNIA

9-4-90
PLANS APPROVAL DATE



TYPICAL SECTION

3/16"=1'0"



PART TYPICAL SECTION

B7-1

1/2"=1'0"

PRESTRESSING NOTES

270 KSI Low Relaxation Strand:

P_{jack} = 10,930 kips

A_s = 53.98 in^2

Anchor Set = .375 in

Total Number of Girders = 8

Distribution of prestress force (Pjack) between girders shall not exceed the ratio of 3:2. Maximum final force variation between girders shall not exceed 725^k.

Concrete: f'_c = 4,000 psi @ 28 days

f'_{ci} = 3,500 psi @ time of stressing

Contractor shall submit elongation calculations based on initial stress at ☒ = .860 times jacking stress.

One end stressing shall be performed from the long-span end only.

AS BUILT

CORRECTIONS BY T. Brown

CONTRACT NO. 07-050294

DATE 11-17-94 M.T. 1-13-95

DESIGN	BY M. KOTAL	CHECKED G. BLAKESLEY	
DETAILS	BY M. GRAVES 5-89	CHECKED G. BLAKESLEY	
QUANTITIES	BY M. JOHNSON	CHECKED E. MAECHLER	

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES STRUCTURE DESIGN 5

BRIDGE NO. 52-0332
POST MILE R19.9

COLLINS DRIVE OVERCROSSING
TYPICAL SECTION

CU 07
EA 050291

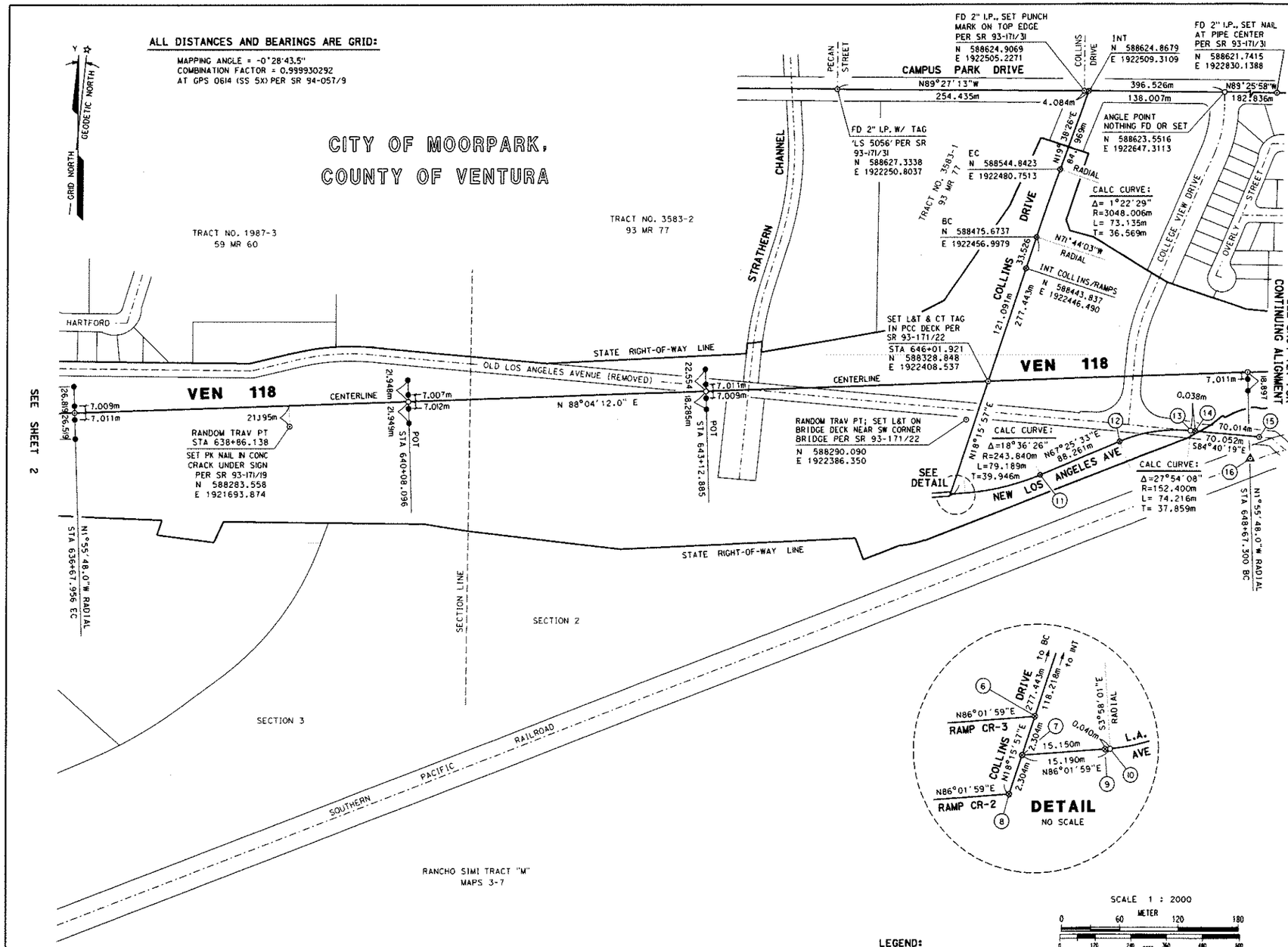
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 11-21-89 12-14-89 6-2-90 6-6-90 7-17-90 8-22-90 9-8-90 10-17-90 11-1-90

SHEET 9 OF 15

05 OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3



STATION (m) OFFSET (m) CALC(meters)	STATION (ft) OFFSET RECORD(feet)	DESCRIPTION	NORTHING	EASTING
636+67.956 0.000	2088+84.00 0.00ft	SET 1" I.P. W/ CT PLUG & BRASS NAIL	588297.3933	1921475.1020
636+67.956 7.009LT	2088+84.00 23.00ft=7.010m	EC O/S (118)	588304.398	1921474.866
636+67.956 7.011RT	2088+84.00 23.00ft=7.010m	EC O/S (118)	588290.386	1921475.338
636+67.956 26.519RT	2088+84.00 87.00ft=26.518m	EC O/S (118)	588270.889	1921475.995
636+67.956 26.819LT	2088+84.00 88.00ft=26.822m	EC O/S (118)	588324.197	1921474.199
640+08.096 0.000	2100+00~ 0.00ft	CALC POT (118)	588308.8486	1921815.0490
640+08.096 7.007LT	2100+00~ 23.00ft=7.010m	POT O/S (118)	588315.852	1921814.813
640+08.096 7.012RT	2100+00~ 23.00ft=7.010m	POT O/S (118)	588301.840	1921815.285
640+08.096 21.948LT	2100+00~ 72.02ft=21.952m	POT O/S (118)	588330.784	1921814.310
640+08.096 21.949RT	2100+00~ 72.00ft=21.946m	POT O/S (118)	588286.912	1921815.788
643+12.885 0.000	2110+00~ 0.00ft	CALC POT (118)	588319.1134	1922119.6645
643+12.885 7.009RT	2110+00~ 23.00ft=7.010m	POT O/S (118)	588312.108	1922119.901
643+12.885 7.011LT	2110+00~ 23.00ft=7.010m	POT O/S (118)	588326.120	1922119.428
643+12.885 18.285RT	2110+00~ 60.00ft=18.288m	POT O/S (118)	588300.839	1922120.280
643+12.885 22.554LT	2110+00~ 74.00ft=22.555m	POT O/S (118)	588341.655	1922118.905
646+01.921 0.000	2119+48.29 0.00ft	POT INT (118)	588328.848	1922408.537
648+67.300 0.000	2128+18.96 0.00ft	SET 1" I.P. W/ CT PLUG & BRASS NAIL	588337.7855	1922673.7652
648+67.300 7.011RT	2128+18.96 23.00ft=7.010m	BC O/S (118)	588330.779	1922674.001
648+67.300 18.897RT	2128+18.96 62.00ft=18.898m	BC O/S (118)	588318.899	1922674.402

PT NO.	DESCRIPTION & REFERENCE	NORTHING	EASTING
6	INT COLLINS DR & STATION LINE RAMP CR-3	588216.5863	1922371.4846
7	INT COLLINS DR & LOS ANGELES AVE	588214.3984	1922370.7625
8	INT COLLINS DR & STATION LINE RAMP CR-2	588212.2105	1922370.0404
9	POT - (RECORD STA 11+68.87 feet EC)	588215.4465	1922385.8767
10	CALC BC	588215.4492	1922385.9158
11	EC - (RECORD STA 14+28.82 feet EC)	588233.5472	1922462.6521
12	BC - (RECORD STA 17+18.46 feet BC)	588267.4285	1922544.1504
13	CALC EC	588278.4463	1922616.8050
14	POT - (RECORD STA 19+62.08 feet EC)	588278.4428	1922616.8430
15	FD SPK & W 0.04m SUB AT BC PER SR 93-171 PG 34	588271.9415	1922686.5546
16	FD BCM 'SS 5X' 0.05m SUB; GPS 0614 PER SR 94-057; SEE ALSO SR 93-171/23, SR 84-209/24, & SR 89-200/6	588249.964	1922677.353

SEE SHEET 2

SCALE 1 : 2000

METER 0 60 120 180

FEET 0 120 240 360 480 600

LEGEND:

- ⚠ - GPS PROJECT CONTROL PER SR 94-057
- ● - SET LEAD & TACK IN CONC SHLDR, 0.3m FROM EDGE PER SR 93-171
- ○ - CALCULATED POINT
- ⊙ - FD OR SET MON, AS NOTED PER SR 93-171
- ⊗ - SET BOAT SPK & CT W FLUSH IN AC PER SR 93-171
- ( ) - RECORD DATA

PROFESSIONAL LAND SURVEYOR

DATE

PROFESSIONAL LAND SURVEYOR JOHN RUFF No. 6844 Exp. 9-30-00 STATE OF CALIFORNIA

SEE SHEET 1 FOR SURVEYOR'S NOTES

Metric

POSTMILES = M18.8 - R21.0 (118)

DISTRICT	COUNTY	ROUTE	POST KILOMETERS-TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	VEN	118	30.3km - 33.8km	3	3

STATE OF CALIFORNIA CALTRANS
SURVEYS

SURVEY CONTROL MAP

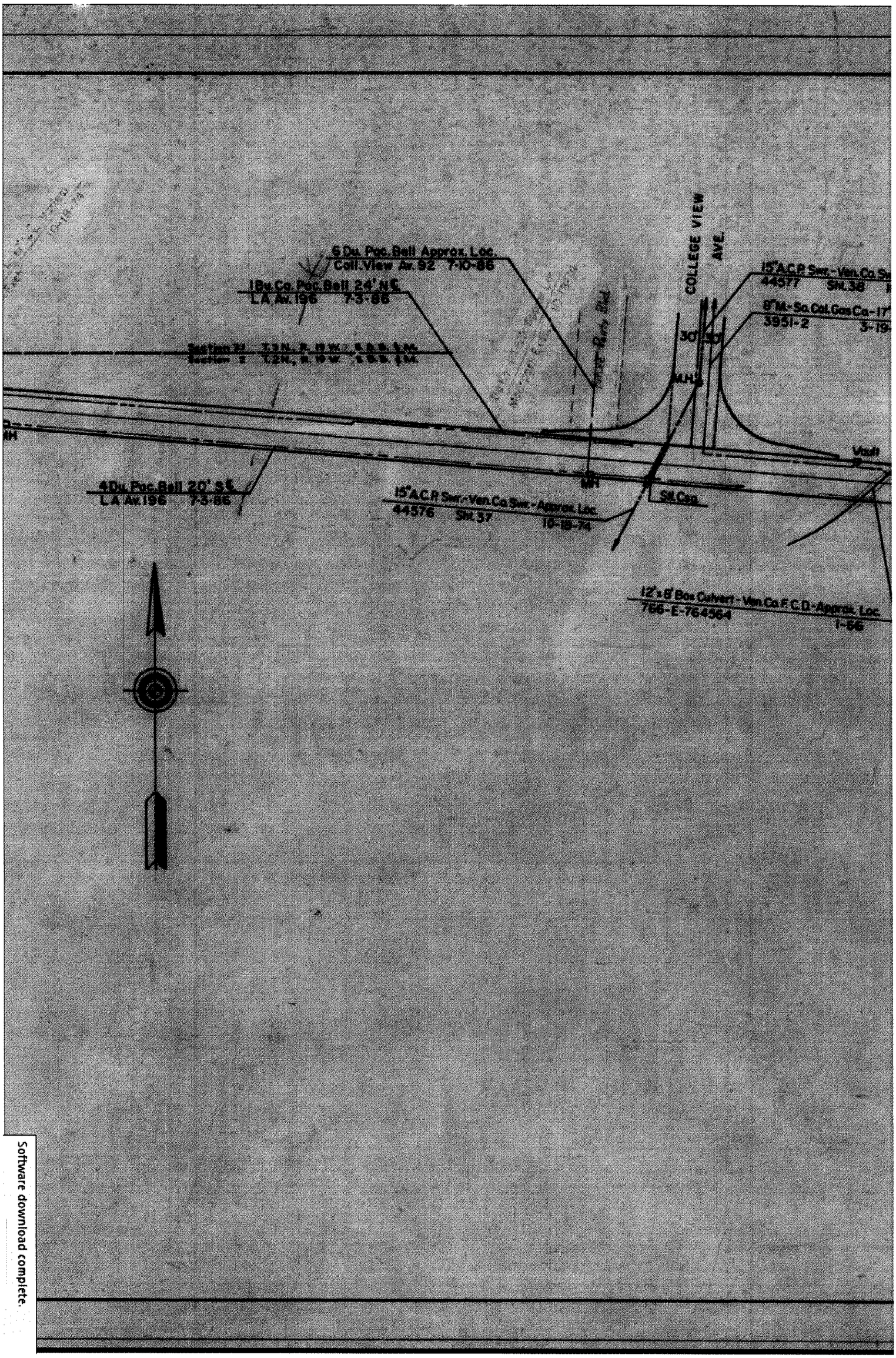
CALIFORNIA COORDINATE SYSTEM
DATUM: NAD 83 (1991.35) ZONE 5

MAP NO. VEN118 97-KP32 DEC 1997
DATE

SURVEY REQ.				
REV. BY				
DATE				

Party Chief: ROBERT HESS
Prepared by: JOHN RUFF
Checked by: ROBERT HESS
Field Office Supervisor: HENRY FIGUEROA
District Survey Engineer: RICHARD STEWART

Caltrans
DEPARTMENT OF TRANSPORTATION



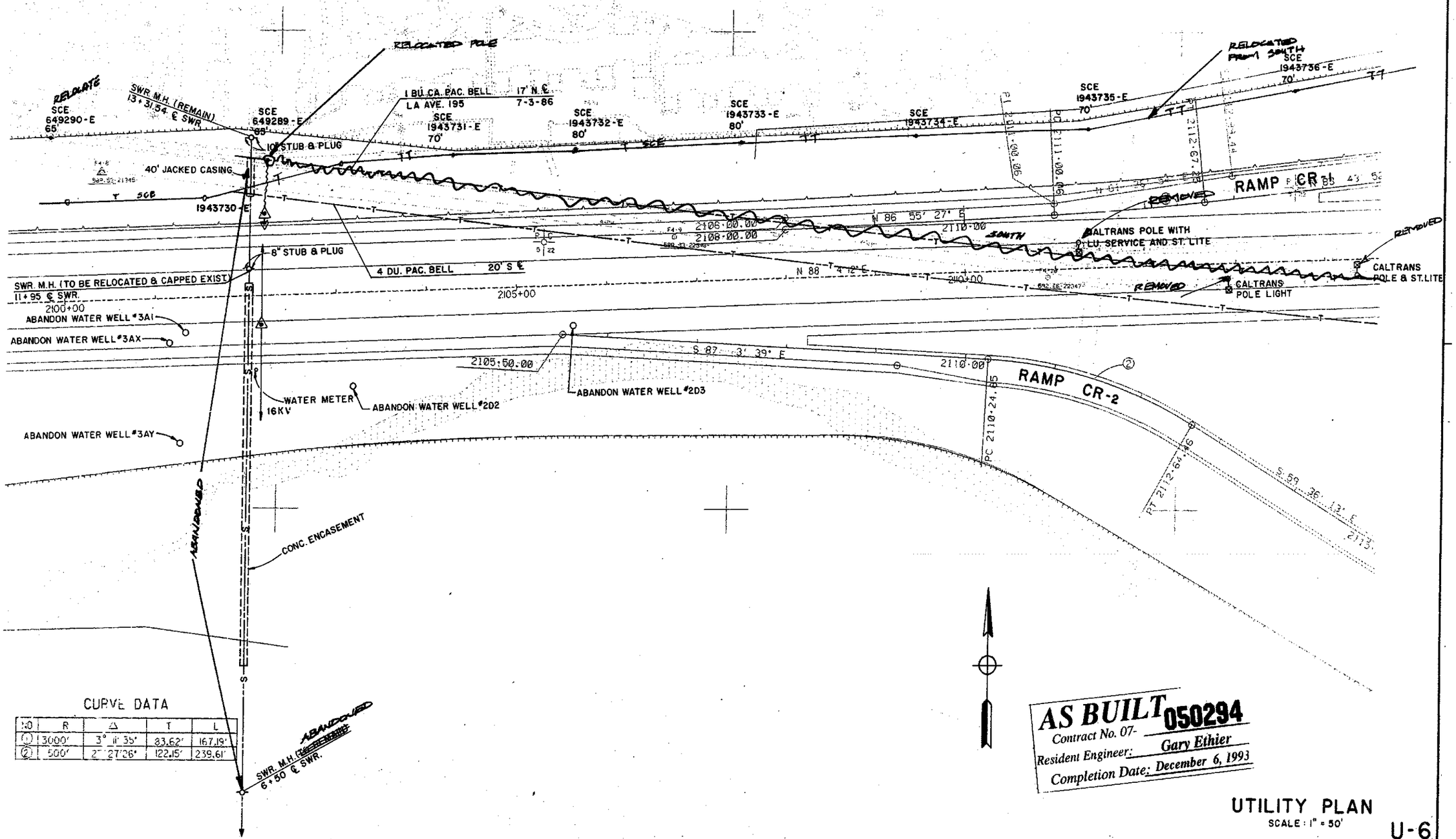
Software download complete.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	Ven	23,118	R10.9/R11.5, M18.8/R21.0	162	472

Eddy Chow
REGISTERED CIVIL ENGINEER

9-4-90
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
E. CHOW
No. 18725
Exp. 6-30-89
CIVIL
STATE OF CALIFORNIA



CURVE DATA

NO	R	Δ	T	L
①	3000'	3° 11' 35"	83.62'	167.19'
②	500'	27° 27' 26"	122.15'	239.61'

AS BUILT 050294
Contract No. 07-
Resident Engineer: Gary Ethier
Completion Date: December 6, 1993

UTILITY PLAN

SCALE: 1" = 50'

U-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

PROJECT ENG. EDDY CHOW

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

FORM DC-OE-92-PF (REV. 1/88)

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

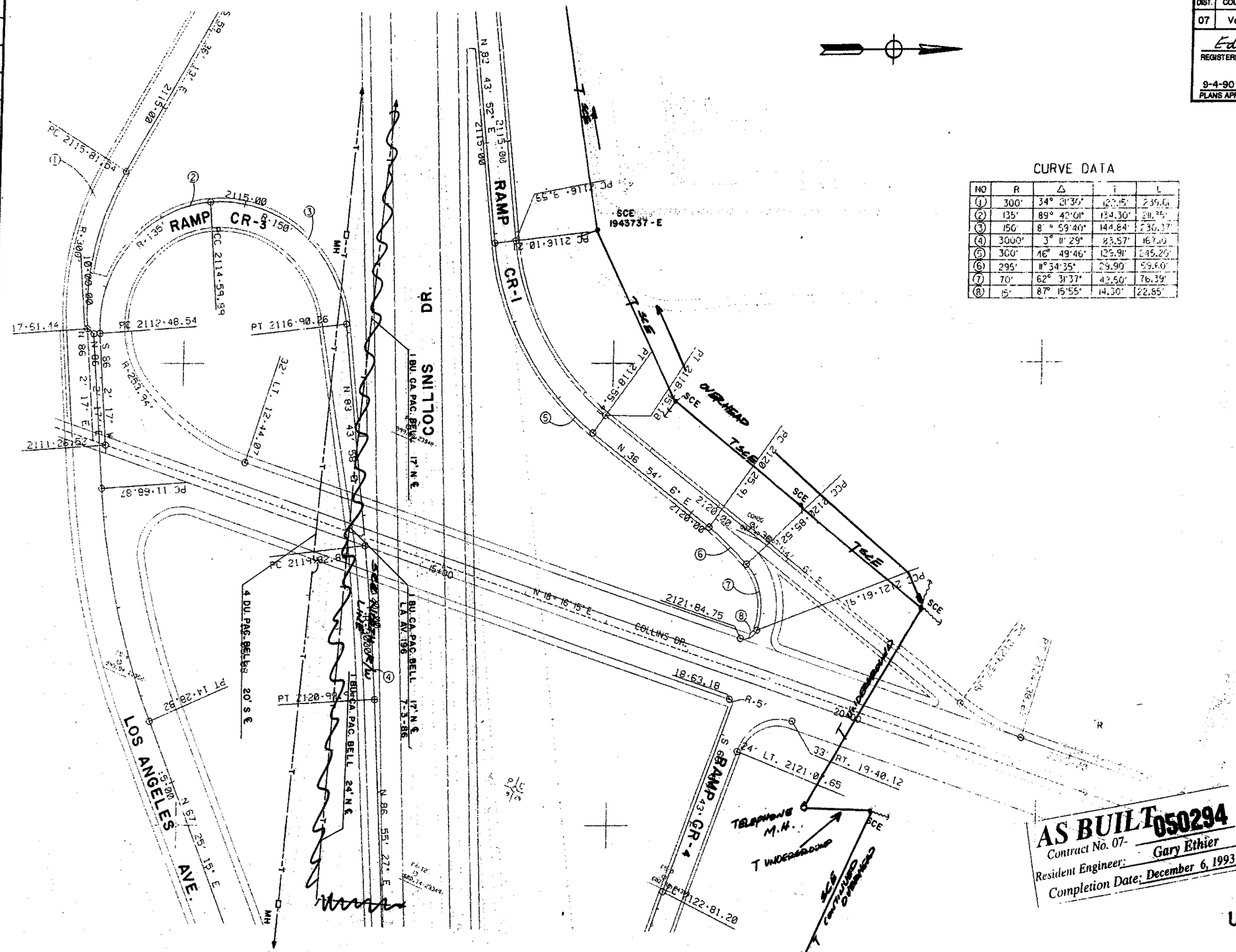
CU 07203 | EA 050290

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	Ven	23,H8	R10.9/R11.5, M18.8/R21.0	163	472

Eddy Chow
REGISTERED CIVIL ENGINEER

9-4-90
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
E. CHOW
No. 18725
Exp. 6-30-89
CIVIL
STATE OF CALIFORNIA



CURVE DATA

NO	R	Δ	T	L
1	300'	34° 21'30"	122.15'	239.60
2	135'	89° 42'01"	134.30'	211.35'
3	150'	8° 59'40"	144.84'	230.37'
4	3000'	3° 11' 29"	83.57'	167.00
5	300'	46° 49'46"	129.91'	245.20'
6	295'	11° 34'35"	29.90'	59.60'
7	70'	62° 31'37"	42.50'	76.39'
8	15'	87° 15'55"	14.30'	22.85'

AS BUILT 050294
Contract No. 07-
Resident Engineer: Gary Ethier
Completion Date: December 6, 1993

UTILITY PLAN

SCALE: 1" = 50'

U-7

STATE OF CALIFORNIA · DEPARTMENT OF TRANSPORTATION	PROJECT ENG	CALCULATED/DESIGNED BY	DATE	REVISED BY
Caltrans	EDDY CHOW	CHECKED BY		DATE REVISED

FORM DC-OE-92-PF (REV. 1/88)

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

CU 07203

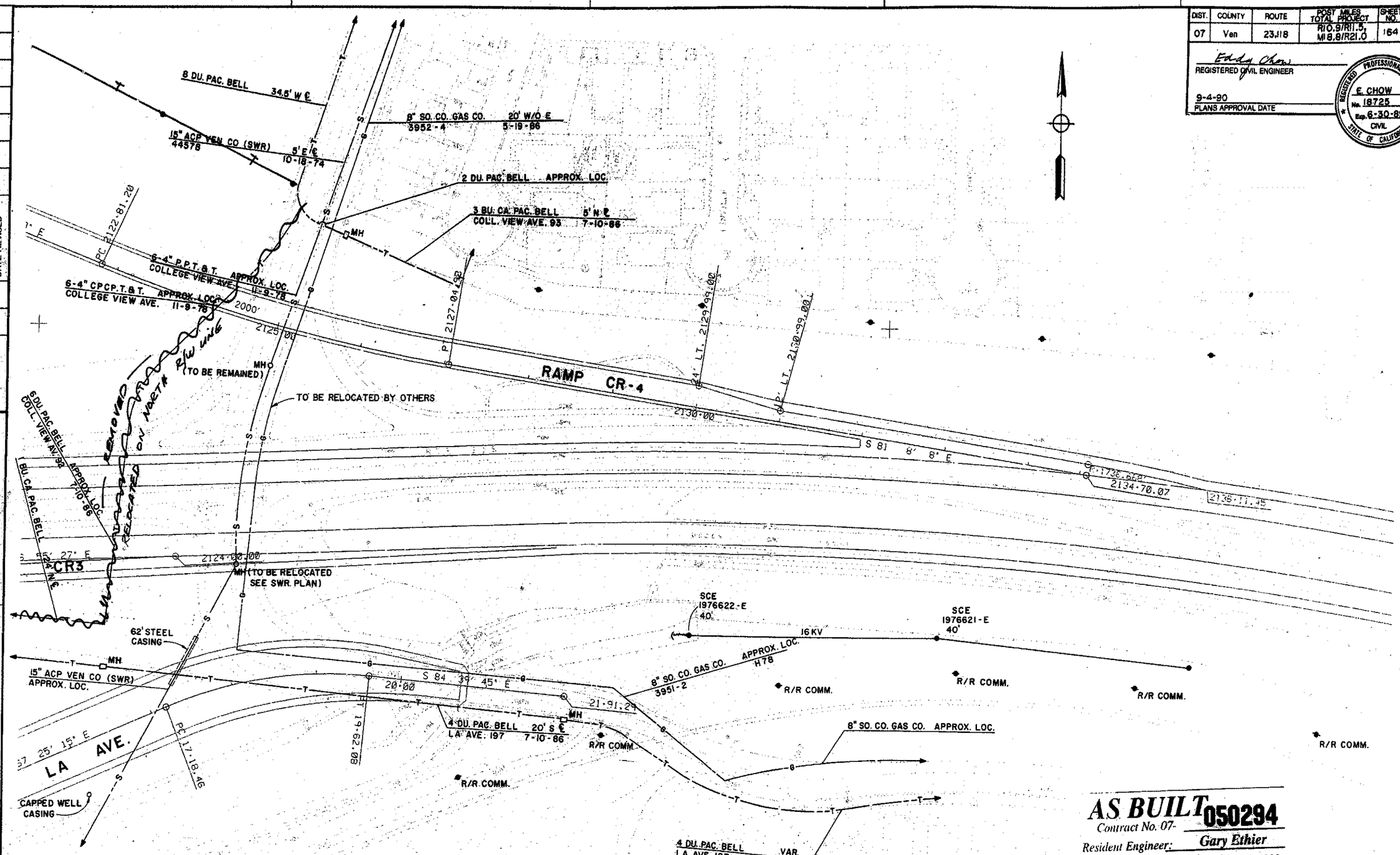
EA 050290

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	Ven	23,118	R10.9/R11.5, M18.8/R21.0	164	472

Eddy Chow
REGISTERED CIVIL ENGINEER

9-4-90
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
E. CHOW
No. 18725
Exp. 6-30-89
CIVIL
STATE OF CALIFORNIA



CURVE DATA

NO	R	Δ	T	L
1				
2				

AS BUILT 050294
Contract No. 07-
Resident Engineer: Gary Ethier
Completion Date: December 6, 1993

UTILITY PLAN
SCALE : 1" = 50'

U-8

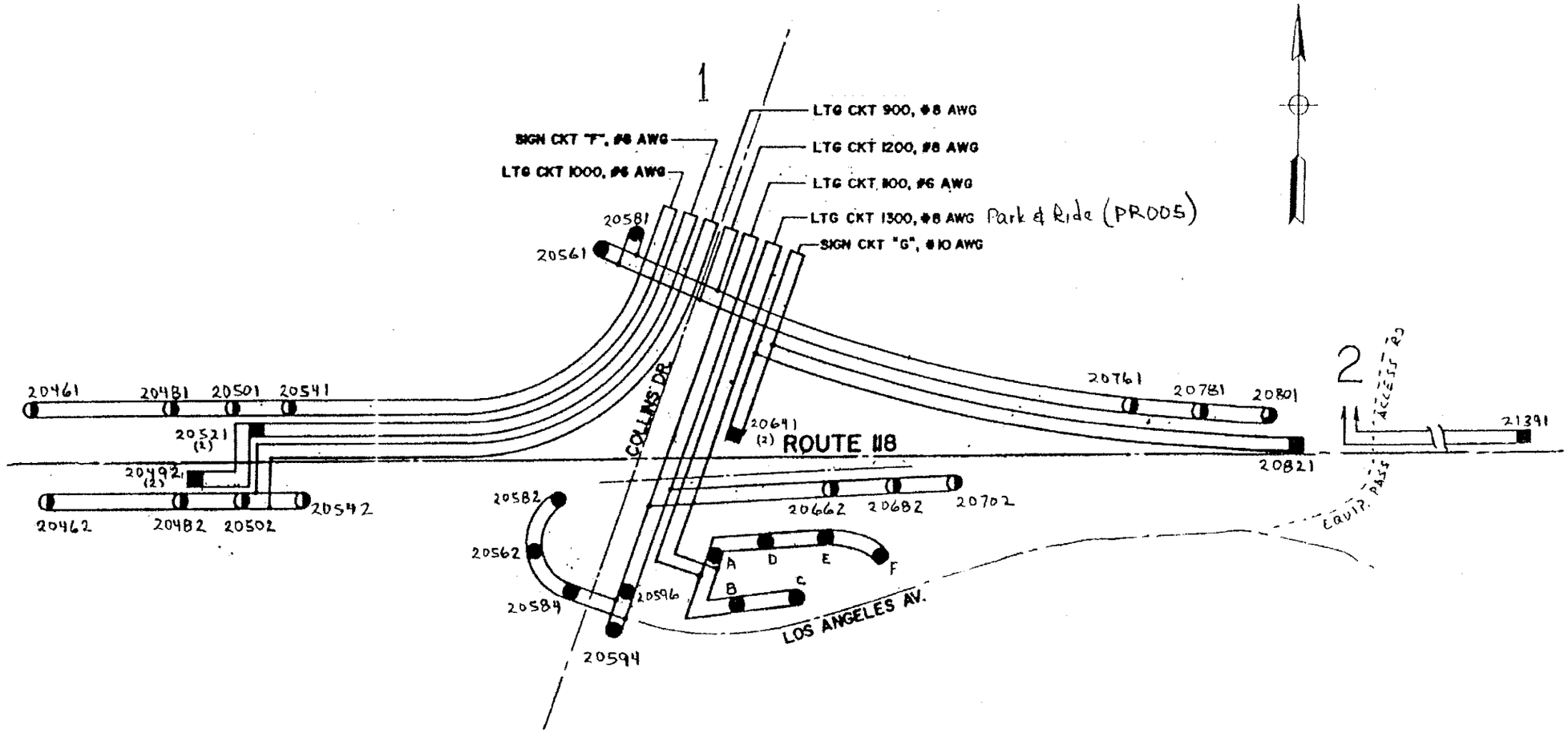
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
PROJECT ENGI. EDDY CHOW
Caltrans

DATE	REVISED BY	DATE REVISED
CALCULATED/ DESIGNED BY	CHECKED BY	

FORM DC-OE-92-PF (REV. 1/86)

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

CU 07203 | EA 050290



Notes:
1. This cutsheet revised to combine services in the area
2. P&R lights: 20642A-F

EMS
accurate - complete

	Caltrans ID	Service Address	Meter#	Pole#	Volts	Uti Co	Contract#	C/C	Revision	By
1	0752118R0**20.600**	6408 ½ COLLINS DR, MOORPARK	8-881092	1945741E	120/240	SCE	07-050294	746	03-24-04	JT
2	0752118R0**20.701**	SIMI FRWY E/O COLLVW, MOORPARK	8-854553	1943750E	120/240	SCE	07-294404	746	03-24-04	JT

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven,LA	23,118	Var	379	667

Leesungkwan 08-30-06
REGISTERED ELECTRICAL ENGINEER

10-2-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SUNG LEE No. E16249 Exp. 12/31/06 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.

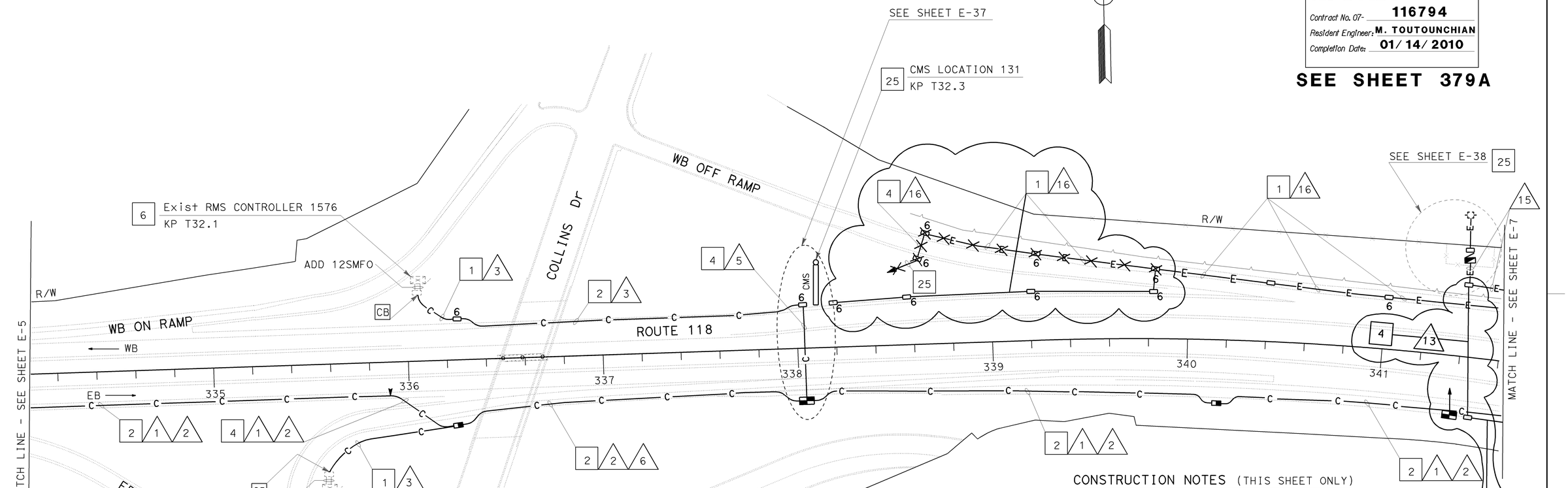
To get to the Caltrans web site, go to: http://www.dot.ca.gov

Caltrans Metric

AS-BUILT
Contract No. 07- **116794**
Resident Engineer: **M. TOUTOUNCHIAN**
Completion Date: **01/ 14/ 2010**

SEE SHEET 379A

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)															
CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN													
		1				2	3	5		6				15	16
48SMFO CABLE	DATA/VOICE	1								1					
36SMFO CABLE	VIDEO/VOICE		1								1				
48SMFO CABLE	VIDEO/DATA			1								1			
12SMFO CABLE	DATA/VOICE						1	1	1				1		
#4	POWER													10	2
#1/0	POWER													14	12
INNERDUCT (SIZE 25)		1	1	1	1	4		1	1	1	1	1	1		
CONDUIT SIZE		103				103	53	78		103				103	103



CONSTRUCTION NOTES (THIS SHEET ONLY)

1. TRENCH AND INSTALL CONDUIT IN UNPAVED AREA. SEE SHEET E-47 FOR DETAILS.
2. TRENCH AND INSTALL CONDUIT IN PAVED AREA. SEE SHEET E-47 FOR DETAILS.
4. JACK TYPE 1 CONDUIT BENEATH ROADWAY. SEE SHEET E-49 FOR DETAILS.
6. INSTALL FDU, FOTM AND INTERFACE CABLE. TERMINATE 12SMFO CABLE IN CABINET. SEE SHEET E-58 FOR DETAILS.
25. SHOWN FOR REFERENCE ONLY. FOR INSTALLATION REFER TO LOCATION PLAN.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

COMMUNICATION SYSTEM ROUTING

SCALE 1:1000

E-6

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
FOR LEGEND AND GENERAL NOTES SEE SHEET E-1.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **ITS DEVELOPMENT**

PROJECT ENGINEER SUNG LEE
CALCULATED/DESIGNED BY
CHECKED BY
REVISED BY
DATE REVISED
DATE

LAST REVISION 00-00-00
DATE PLOTTED => 29-JUN-2010
TIME PLOTTED => 09:44

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80
USERNAME => s110796
DGN FILE => 711679ua006.dgn
CU 07388
EA 116791

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	Ven,LA	23,118	Var	379A	667

Caltrans Metric

Leesunghuan 09-06-05
REGISTERED ELECTRICAL ENGINEER

10-2-06
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SUNG LEE No. E16249 Exp. 12/31/06 ELECTRICAL STATE OF CALIFORNIA

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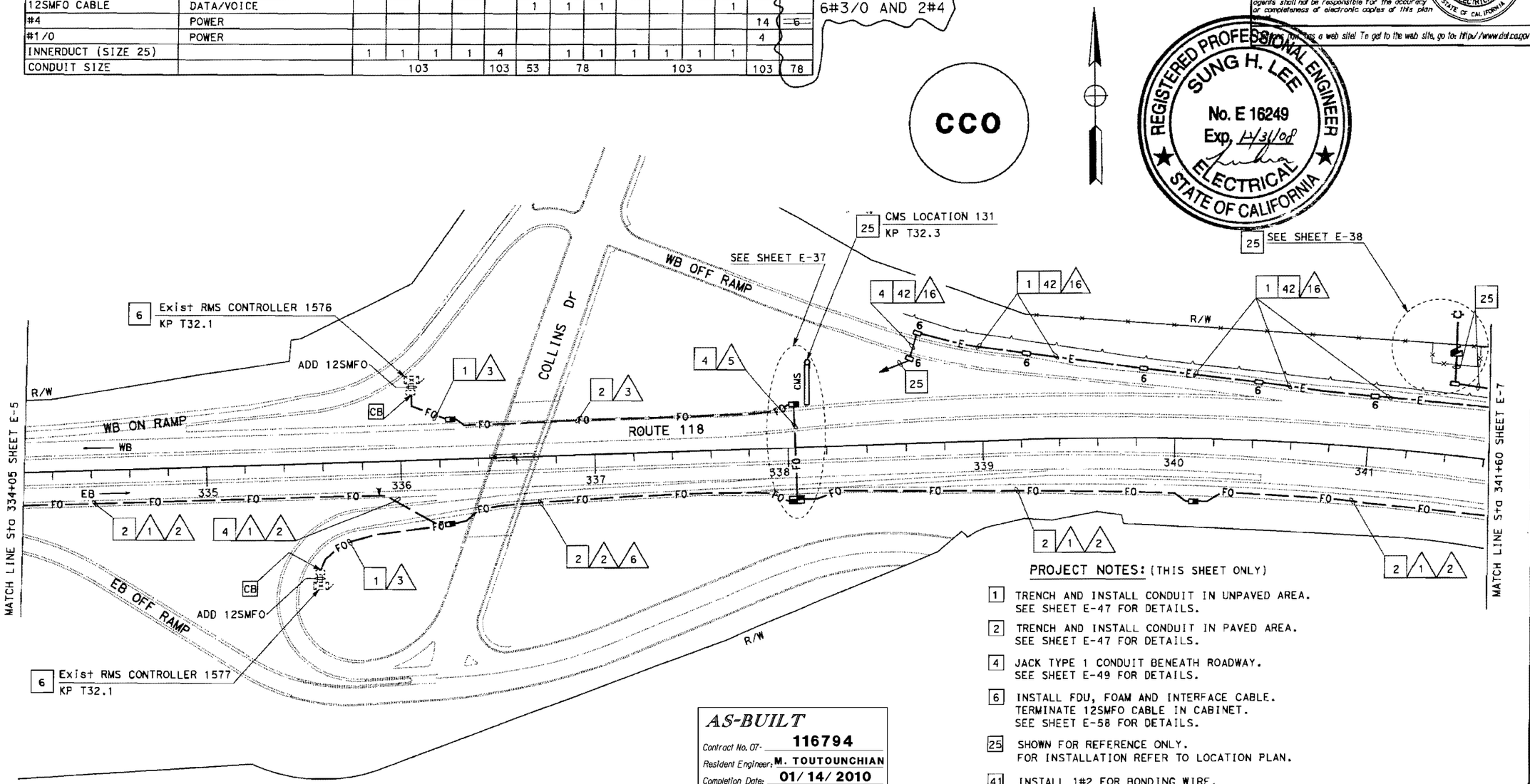
Caltrans now has a web site! To get to the web site, go to: http://www.dot.ca.gov

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUIT AND CONDUCTOR TYPE	FUNCTION	RUN 1				2	3	5		6				15	16
48SMFO CABLE	DATA/VOICE	1								1					
36SMFO CABLE	VIDEO/VOICE		1								1				
48SMFO CABLE	VIDEO/DATA			1								1			
12SMFO CABLE	DATA/VOICE						1	1	1				1		
#4	POWER													14	6
#1/0	POWER													4	
INNERDUCT (SIZE 25)		1	1	1	1	4		1	1	1	1	1	1		
CONDUIT SIZE		103				103	53	78		103				103	78

6#3/0 AND 2#4



PROJECT NOTES: (THIS SHEET ONLY)

1. TRENCH AND INSTALL CONDUIT IN UNPAVED AREA. SEE SHEET E-47 FOR DETAILS.
2. TRENCH AND INSTALL CONDUIT IN PAVED AREA. SEE SHEET E-47 FOR DETAILS.
4. JACK TYPE 1 CONDUIT BENEATH ROADWAY. SEE SHEET E-49 FOR DETAILS.
6. INSTALL FDU, FOAM AND INTERFACE CABLE. TERMINATE 12SMFO CABLE IN CABINET. SEE SHEET E-58 FOR DETAILS.
25. SHOWN FOR REFERENCE ONLY. FOR INSTALLATION REFER TO LOCATION PLAN.
41. INSTALL 1#2 FOR BONDING WIRE.
42. INSTALL 1#6 FOR BONDING WIRE.

AS-BUILT
Contract No. 07- 116794
Resident Engineer: M. TOUTOUNCHIAN
Completion Date: 01/14/2010

ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE SHOWN.

FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE. THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY. FOR LEGEND AND GENERAL NOTES SEE SHEET E-1.

COMMUNICATION SYSTEM ROUTING

SCALE 1:1000

E-6A

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS DEVELOPMENT

PROJECT ENGINEER SUNG LEE

CALCULATED/DESIGNED BY SL DATE 10/05 REVISED BY
CHECKED BY CC 10/05 DATE REVISED

LAST REVISION 00-00-00 DATE PLOTTED => 08-OCT-2008 TIME PLOTTED => 13:05

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s129495
DGN FILE => 711679u006_CCO.dgn

CU 07388

EA 116791

	CCTV	ROUTE 110				
CCTV ID	COUNTY	ROUTE	DIRECTION	PM	CROSS STREET	VIDEO
191	LA	110	N	24.30	HILL STREET EXIT	YES
192	LA	110	N	25.10	Solano Av	YES
193	LA	110	S	25.20	ACADEMY RD	YES
194	LA	110	N	25.30	S/O Rte 5	YES
195	LA	110	N	25.79	ROUTE 5 INTERCHANGE	YES

	CCTV	ROUTE 118				
CCTV ID	COUNTY	ROUTE	DIRECTION	PM	CROSS STREET	VIDEO
54	LA	118	W	11.5	RTE 5 INTERCHANGE	YES
693	LA	118	W	13.8	RT 118/210 INTERCHNG	NO
696	VEN	118	W	21.4	COLLINS DR	YES
697	VEN	118	W	30	STEARNS ST	YES
698	VEN	118	E	31.3	KEUHNER DR	YES

CCTV CONTROL	PRECONSTRUCTION STATUS
YES	WORKING AND ACTIVE
YES	WORKING AND ACTIVE
NO	HAS VIDEO BUT NO CAMERA CONTROL
YES	WORKING AND ACTIVE
NO	HAS VIDEO BUT NO CAMERA CONTROL

CCTV CONTROL	PRECONSTRUCTION STATUS
NO	**HAS VIDEO BUT NO CAMERA CONTROL**
NO	**NOT OPERATIONAL-BAD COMMUNICATION**
YES	**WORKING AND ACTIVE**
YES	**WORKING AND ACTIVE**
NO	**HAS VIDEO BUT NO CAMERA CONTROL**

CMS sign on Route 110 AND 118

CMS ID	ROUTE	DIRECTION	PM	X-STREET	PRECONSTRUCTION STATUS
119	118	WB	21.4	Collins Dr	working and active
46	110	SB	25.21	Academy Rd	working and active