INFORMATION HANDOUT

For Contract No. 07-2W7704
At 07-LA-118,210,405-PM Various

Identified by
Project ID 0713000446

As-Builts

Fiber Optic System As-Built Drawings

CCTV, Loop Detector and Communication System Routing

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	118	R0.0/R 4.0	44	125

Kenneth D. Campe 8/5/94
REGISTERED ELECTRICAL ENGINEER

7-22-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMPE — No. E012917 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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PROJECT NOTES: (SHEETS E-2 TO E-15)

1. TRENCH AND INSTALL CONDUIT IN ASPHALT.
2. TRENCH AND INSTALL CONDUIT IN CONCRETE.
3. TRENCH AND INSTALL CONDUIT IN SOIL.
4. ATTACH CONDUIT TO STRUCTURE. SEE SHEET C-8 FOR BRIDGE ATTACHMENT TYPE AND DETAILS.
5. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
6. CONNECT 6P22 TO CONTROLLER. USE CONDUIT FROM PB INTO CABINET. IF A NEW TELEPHONE BRIDGE IS TO BE INSTALLED, CONNECT BRIDGING 6P22 FROM ELEMENT TO BLOCK. SEE SHEETS E-2 THROUGH E-15 FOR NEW TELEPHONE BRIDGES AND E-54 FOR BLOCK DIAGRAM.
7. COIL 25 FEET OF 6P22 CABLE FOR TRAFFIC SIGNAL CONTROLLER.
8. COIL 25 FEET OF 6P22 CABLE FOR STATE CONTROLLER EQUIPMENT.
9. COIL 25 FEET OF 6P22 CABLE FOR IRRIGATION CONTROLLER.

GENERAL NOTES:

1. BEFORE REMOVING OR MODIFYING ANY EXISTING ELECTRICAL FACILITIES, THE CONTRACTOR SHALL GIVE 72 HOURS ADVANCE NOTICE IN WRITING TO THE ENGINEER.
2. SERVICE EQUIPMENT ENCLOSURE SHALL BE LOCATED 10' MINIMUM FROM THE POWER POLE OR VAULT.
3. ELECTRICAL SERVICE INSTALLATION SHALL MEET THE REQUIREMENTS OF EITHER SOUTHERN CALIFORNIA EDISON COMPANY (SCE) OR LOS ANGELES DEPARTMENT OF WATER AND POWER (DWP).
4. CONDUCTORS FROM POWER POLE (OR VAULT) TO SERVICE ENCLOSURE WILL BE INSTALLED BY UTILITY COMPANY.
5. TRENCH FOR CONDUIT INSTALLATION BETWEEN POWER POLE (OR VAULT) AND SERVICE ENCLOSURE SHALL BE LEFT OPEN FOR INSPECTION AND APPROVAL BY SCE OR DWP INSPECTOR BEFORE BACKFILL.
6. STENCIL CAMERA IDENTIFICATION NUMBER ON POLE IN 3" CHARACTERS 10 FEET ABOVE BASE. SEE SHEETS K-1 AND K-2.
7. STATIONS GIVEN ARE APPROXIMATE, EXACT EQUIPMENT AND POLE LOCATIONS TO BE DETERMINED BY ENGINEER.
8. PULL AND COIL AN EXTRA 50 FEET OF SMFO AND TWISTED PAIR CABLES IN EACH SPLICE VAULT UNLESS OTHERWISE NOTED.

ABBREVIATIONS:

CCTV	- CLOSED CIRCUIT TELEVISION
CIA	- CONTROLLER INTERPHASE ASSEMBLY
COMM	- COMMUNICATION
DACCS	- DIGITAL ACCESS CROSS CONNECTION SYSTEM
DEMARC	- DEMARCATION
DEMUX	- DEMULTIPLEX
DWP	- LA DEPARTMENT OF WATER AND POWER
FDF	- FIBER DISTRIBUTION FRAME
GTE	- GENERAL TELEPHONE AND ELECTRIC
JKFD	- JACKFIELD
MUX	- MULTIPLEX
OW	- ORDER WIRE (MULTIPLE VOICE CIRCUIT)
PAC BELL	- PACIFIC BELL TELEPHONE COMPANY
PDA	- POWER DISTRIBUTION ASSEMBLY
PT&T	- PACIFIC TELEPHONE AND TELEGRAPH
RMS	- RAMP METERING SYSTEM
RX	- RECEIVER
SV	- SIMI VALLEY
SCE	- SOUTHERN CALIFORNIA EDISON
SCGAS	- SOUTHERN CALIFORNIA GAS COMPANY
SCWC	- SOUTHERN CALIFORNIA WATER COMPANY
SMFO	- SINGLEMODE FIBER OPTIC
TMS	- TRAFFIC MONITORING STATION
TX	- TRANSMITTER
VMX	- VIDEO MULTIPLEXER

TABLE 1 - CCTV WIRING		
CONDUCTOR TYPE	FUNCTION	QTY
RG-6A/U	CAMERA VIDEO INTERFACE CABLE	1
9*18 CABLE	PAN/TILT CONTROL CABLE	1
12*18 CABLE	LENS CONTROL CABLE	1

LEGEND (SHEETS E-2 TO E-34)

	CCTV ASSEMBLY CAMERA AND POLE
	CCTV CAMERA POLE LOCATION
	PROPOSED CMS
	HAR ANTENNA LOCATION
	COMMUNICATION PULL BOX
	EXISTING SPLICE VAULT
	SPLICE VAULT SEE SHEET E-36
334	EXISTING TV 334 CABINET
	EXISTING TELETPHONE BRIDGE
	TELEPHONE BRIDGE
	NEW 334 CABINET (CCTV/HAR/CMS)
— — E — —	PROPOSED POWER SERVICE CONDUIT
— — e — —	EXISTING POWER SERVICE CONDUIT
PP*XXX	POWER POLE NUMBER
XXSMFO	SINGLEMODE FIBER OPTIC CABLE SEE SHEET E-70 FOR ASSIGNMENT
XXP22	XX TWISTED PAIR TELEPHONE CABLE SEE SHEET E-66 THROUGH E-68 FOR ASSIGNMENT
SVXXX	(XXX = POST MILE DESIGNATOR TO ONE DECIMAL PLACE) CCTV IDENTIFICATION NUMBER: (SV = SIMI VALLEY FREEWAY)

CCTV AND COMMUNICATION SYSTEM (LEGEND AND NOTES)

E-1

				5/94	2/96
				CF	KP
				REVISED BY	
				DATE REVISED	
CALCULATED/DESIGNED BY	RL	DATE 5/94			
CHECKED BY	CF	5/94			

DESIGN OVERSIGHT — PAT SULLIVAN

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EA 120871

D ST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	118	RC. 0/R 4.0	49	25

Kenneth D. Campe 8/15/94
REGISTERED ELECTRICAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMPE — No. E01291 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

7-22-96
PLANS APPROVAL DATE

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
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IN ASSOCIATION WITH:

KOC ARCHITECTS · ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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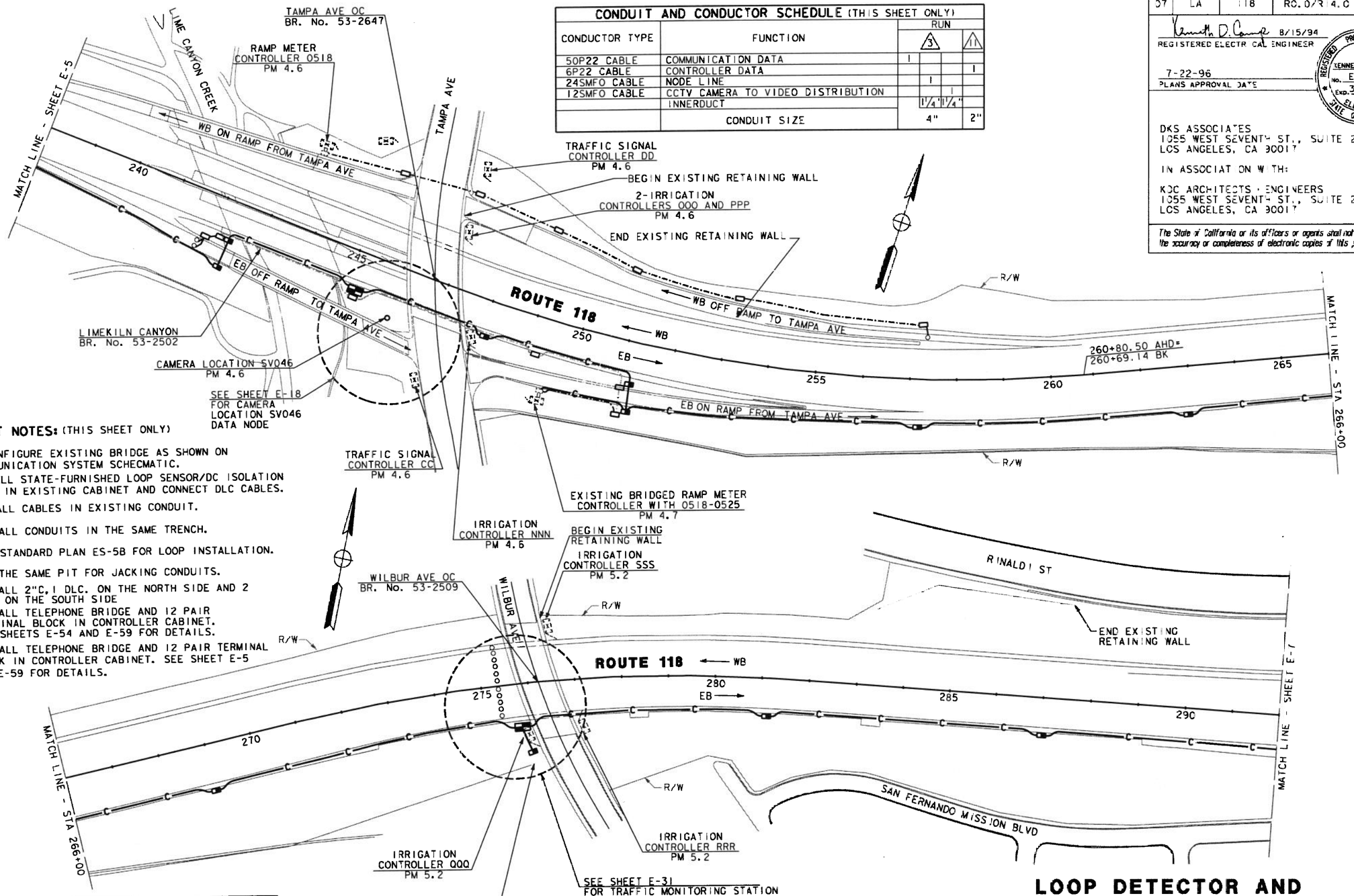
CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUCTOR TYPE	FUNCTION	RUN 3	RUN 11
50P22 CABLE	COMMUNICATION DATA	1	
6P22 CABLE	CONTROLLER DATA		1
24SMFO CABLE	NODE LINE	1	
12SMFO CABLE	CCTV CAMERA TO VIDEO DISTRIBUTION		1
	INNERDUCT	1 1/4"	1 1/4"
	CONDUIT SIZE	4"	2"



PROJECT NOTES: (THIS SHEET ONLY)

16 RECONFIGURE EXISTING BRIDGE AS SHOWN ON COMMUNICATION SYSTEM SCHECMATIC.

23 INSTALL STATE-FURNISHED LOOP SENSOR/DC ISOLATION UNIT IN EXISTING CABINET AND CONNECT DLC CABLES.

24 INSTALL CABLES IN EXISTING CONDUIT.

25 INSTALL CONDUITS IN THE SAME TRENCH.

26 SEE STANDARD PLAN ES-5B FOR LOOP INSTALLATION.

27 USE THE SAME PIT FOR JACKING CONDUITS.

28 INSTALL 2"C, 1 DLC. ON THE NORTH SIDE AND 2 DLC ON THE SOUTH SIDE

28 INSTALL TELEPHONE BRIDGE AND 12 PAIR TERMINAL BLOCK IN CONTROLLER CABINET. SEE SHEETS E-54 AND E-59 FOR DETAILS.

34 INSTALL TELEPHONE BRIDGE AND 12 PAIR TERMINAL BLOCK IN CONTROLLER CABINET. SEE SHEET E-5 AND E-59 FOR DETAILS.

WARNING

BEFORE STARTING WORK ON EXISTING SERIES LIGHTING CIRCUITS, THE CONTRACTOR MUST OBTAIN DAILY SAFETY CIRCUIT CLEARANCE FROM SERVING COMPANIES, DISCONNECT CIRCUITS AND PLACE "MEN AT WORK" SIGNS NEAR OPEN SWITCHES BEFORE DOING ANY WORK ON CIRCUITS.

LOOP DETECTOR AND COMMUNICATIONS SYSTEM ROUTING

SCALE: 1" = 100'

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

E-6

DATE	REVISED BY
5/94	RL

DATE REVISED	CALCULATED/ DESIGNED BY
5/94	CF

CHECKED BY

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EA 120871

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	118	R0.0/R14.0	54	125

Kenneth D. Camp 8/15/94
REGISTERED ELECTRICAL ENGINEER

7-22-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KENNETH D CAMP No. E012917 Exp. 3/31/97 ELECTRICAL STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
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KDC ARCHITECTS · ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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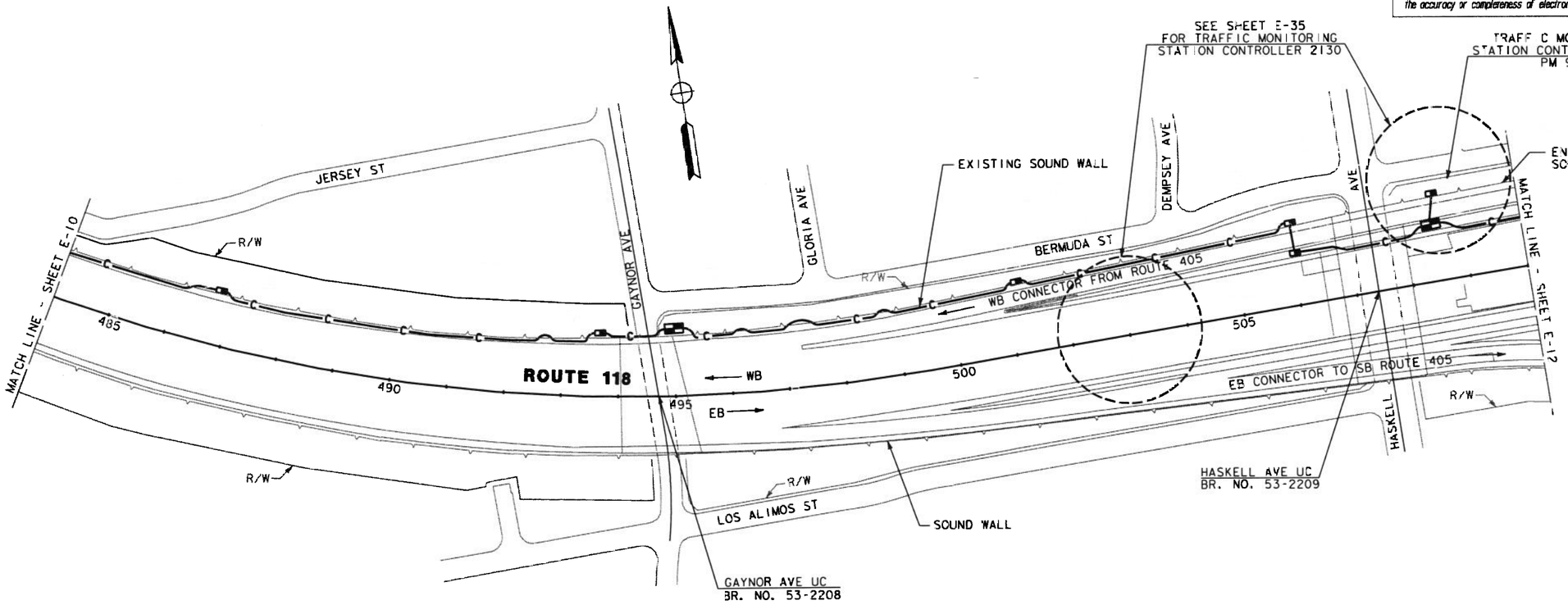
WARNING

BEFORE STARTING WORK ON EXISTING SERIES LIGHTING CIRCUITS, THE CONTRACTOR MUST OBTAIN DAILY SAFETY CIRCUIT CLEARANCE FROM SERVING COMPANIES, DISCONNECT CIRCUITS AND PLACE "MEN AT WORK" SIGNS NEAR OPEN SWITCHES BEFORE DOING ANY WORK ON CIRCUITS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUCTOR TYPE	FUNCTION	RUN △1			△5
50P22 CABLE	COMMUNICATION DATA	1			
6P22 CABLE	CONTROLLER DATA				1
24SMFO CABLE	NODE LINE		1		
	INNERDUCT		1¼"	1¼"	
	CONDUIT SIZE	4"			4"



PROJECT NOTES: (THIS SHEET ONLY)

15 SEE SHEET C-11 FOR CONDUIT BENEATH SOUND WALL DETAILS.

COMMUNICATION SYSTEM ROUTING

SCALE: 1" = 100'

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

E-11

CALCULATED/DESIGNED BY	RL	DATE 5/94	REVISED BY
CHECKED BY	CF	5/94	DATE REVISED

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EA 120871

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

Kenneth D. Camp 8/5/94
REGISTERED ELECTRICAL ENGINEER

PROFESSIONAL ENGINEER — REGISTERED — KENNETH D CAMP — No. E0129 7 — Exp. 3/31/97 — ELECTRICAL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
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IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
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LOS ANGELES, CA 90017

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PROJECT NOTES: (THIS SHEET ONLY)

11 COIL 50 FEET OF 24SMFO CABLE IN EXISTING SPLICE VAULT.

14 INSTALL 24SMFO CABLE IN EXISTING COMMUNICATIONS CONDUIT. ROUTE 24SMFO IN SAME INNERDUCT AS EXISTING FIBER OPTIC CABLES.

22 PULL AND COIL AN EXTRA 50 FEET OF 24SMFO AND 50P22 CABLE IN SPLICE VAULT.

33. HIGH VOLTAGE ELECTRICAL LINES SHOWN, TAKEN FROM CALTRANS WIRING DIAGRAM.

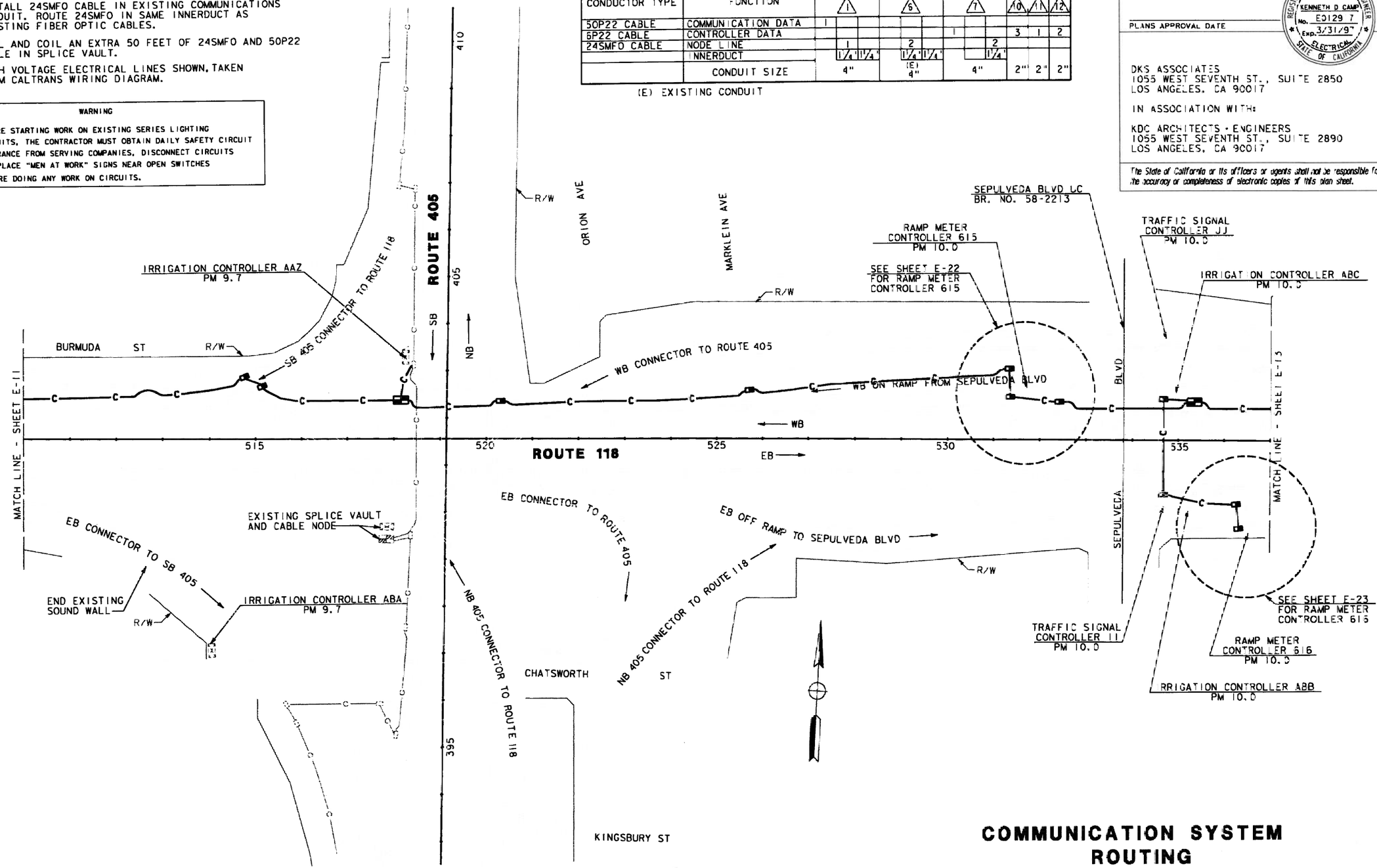
WARNING

BEFORE STARTING WORK ON EXISTING SERIES LIGHTING CIRCUITS, THE CONTRACTOR MUST OBTAIN DAILY SAFETY CIRCUIT CLEARANCE FROM SERVING COMPANIES, DISCONNECT CIRCUITS AND PLACE "MEN AT WORK" SIGNS NEAR OPEN SWITCHES BEFORE DOING ANY WORK ON CIRCUITS.

CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUCTOR TYPE	FUNCTION	RUN 1	RUN 6	RUN 7	RUN 10	RUN 11	RUN 12
50P22 CABLE	COMMUNICATION DATA	1					
6P22 CABLE	CONTROLLER DATA			1	3	1	2
24SMFO CABLE	NODE LINE	1	2		2		
	INNERDUCT	1 1/4" 1 1/4"	1 1/4" 1 1/4"		1 1/4"		
	CONDUIT SIZE	4"	(E) 4"	4"	2"	2"	2"

(E) EXISTING CONDUIT



COMMUNICATION SYSTEM ROUTING

SCALE: 1" = 100'

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

E-12

	DATE	REVISED BY
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LAST REVISION 00-00-00

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	118	R0.0/R14.0	57	125

Kenneth D. Camp 8/15/94
REGISTERED ELECTRICAL ENGINEER

7-22-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KENNETH D CAMP No. EO 2917 Exp. 3/31/97 ELECTRICAL STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

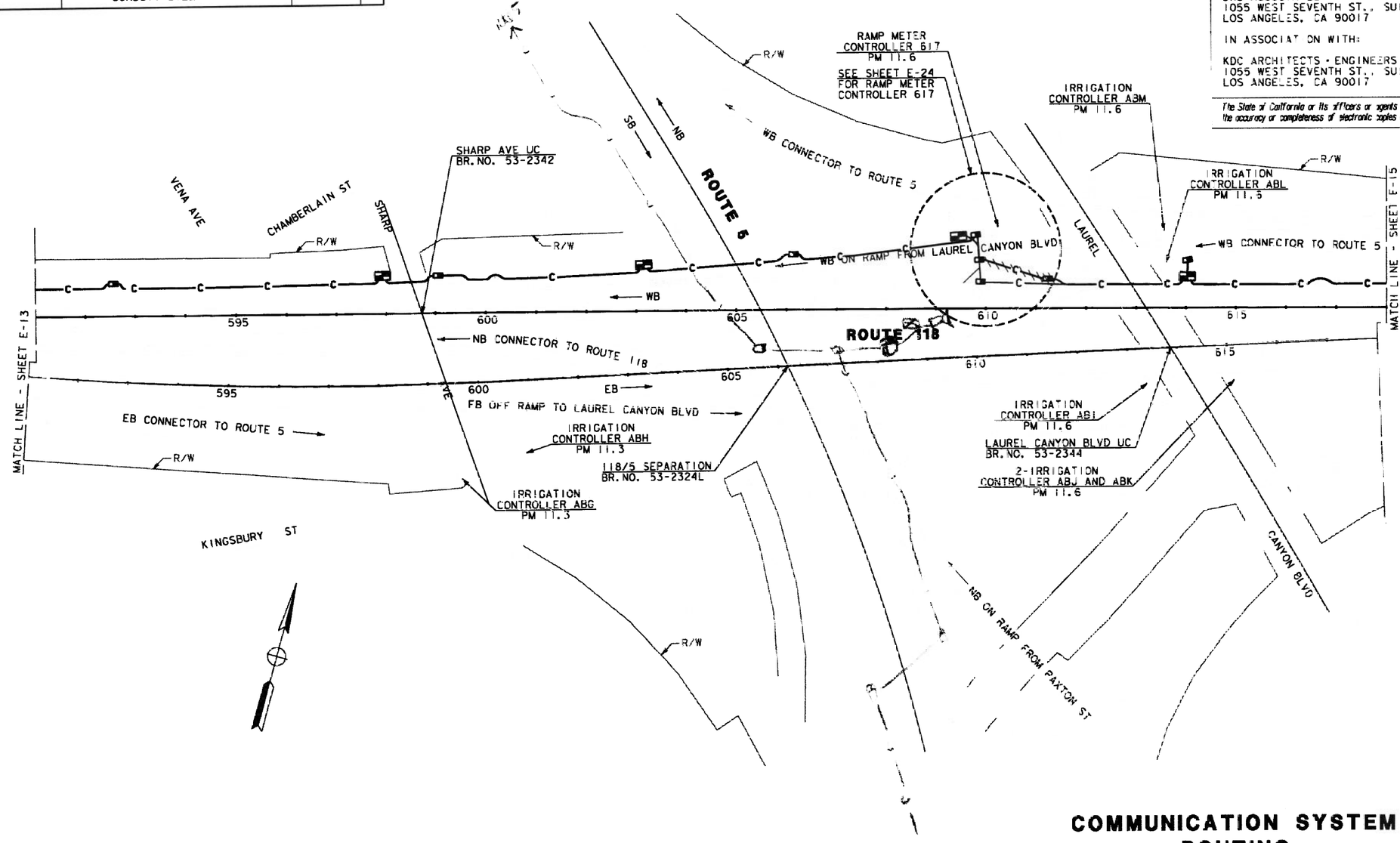
CONDUCTOR TYPE	FUNCTION	RUN 1			RUN 11
50P22 CABLE	COMMUNICATION DATA	1			
6P22 CABLE	CONTROLLER DATA				1
24SMFO CABLE	NODE LINE		1		
	INNERDUCT		1 1/4"	1 1/4"	
	CONDUIT SIZE		4"		2"

WARNING

BEFORE STARTING WORK ON EXISTING SERIES LIGHTING CIRCUITS, THE CONTRACTOR MUST OBTAIN DAILY SAFETY CIRCUIT CLEARANCE FROM SERVING COMPANIES, DISCONNECT CIRCUITS AND PLACE "MEN AT WORK" SIGNS NEAR OPEN SWITCHES BEFORE DOING ANY WORK ON CIRCUITS.

PROJECT NOTES: (THIS SHEET ONLY)

22 PULL AND COIL AN EXTRA 50 FEET OF 24SMFO AND 50P22 CABLE IN SPLICE VAULT.



COMMUNICATION SYSTEM ROUTING

SCALE: 1" = 100'

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

E-14

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	118	R0.0/R14.0	58	25

Kenneth D. Camp 8/15/94
REGISTERED ELECTRICAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER — KENNETH D CAMP — NO. E0 2917 — EXP. 3/3 /97 — ELECTRICAL — STATE OF CALIFORNIA

7-22-96
PLANS APPROVAL DATE

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

KDC ARCHITECTS - ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

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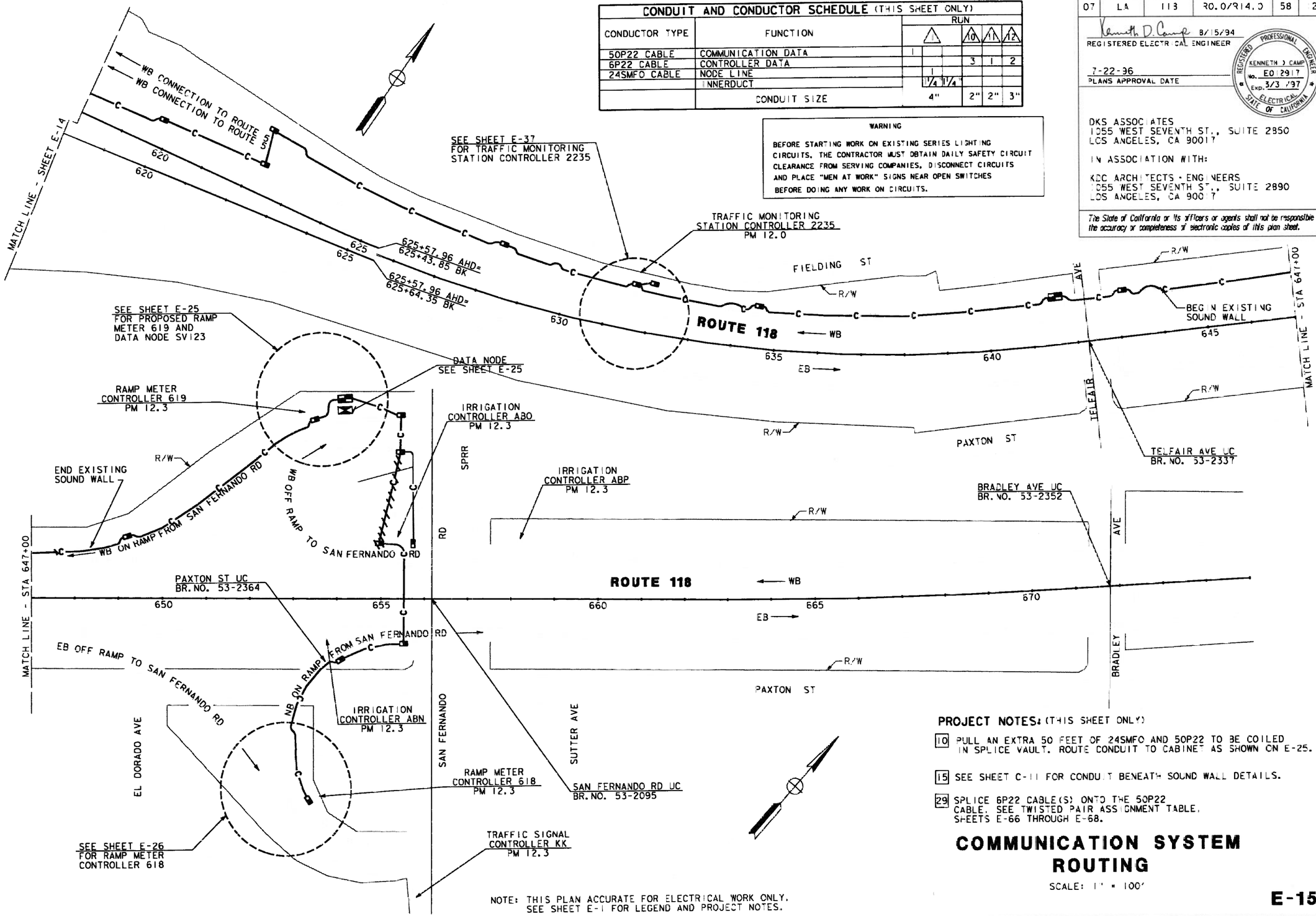
CONDUIT AND CONDUCTOR SCHEDULE (THIS SHEET ONLY)

CONDUCTOR TYPE	FUNCTION	RUN 1	10	11	12
50P22 CABLE	COMMUNICATION DATA	1			
6P22 CABLE	CONTROLLER DATA		3	1	2
24SMFO CABLE	NODE LINE	1			
	INNERDUCT	1 1/4	1 1/4		
	CONDUIT SIZE	4"	2"	2"	3"

WARNING

BEFORE STARTING WORK ON EXISTING SERIES LIGHTING CIRCUITS, THE CONTRACTOR MUST OBTAIN DAILY SAFETY CIRCUIT CLEARANCE FROM SERVING COMPANIES, DISCONNECT CIRCUITS AND PLACE "MEN AT WORK" SIGNS NEAR OPEN SWITCHES BEFORE DOING ANY WORK ON CIRCUITS.



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

PROJECT NOTES: (THIS SHEET ONLY)

10 PULL AN EXTRA 50 FEET OF 24SMFO AND 50P22 TO BE COILED IN SPLICE VAULT. ROUTE CONDUIT TO CABINET AS SHOWN ON E-25.

15 SEE SHEET C-11 FOR CONDUIT BENEATH SOUND WALL DETAILS.

29 Ssplice 6P22 CABLE(S) ONTO THE 50P22 CABLE. SEE TWISTED PAIR ASSIGNMENT TABLE, SHEETS E-66 THROUGH E-68.

COMMUNICATION SYSTEM ROUTING

SCALE: 1" = 100'

E-15

DATE	REVISED BY
5/94	KP
5/94	DATE REVISED 2/96

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	I 8	RC.0/R 4.0	67	125

Robert J Close 8/15/94
REGISTERED CIVIL ENGINEER

7-22-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — ROBERT J CLOSE — No. C41403 — EXP. 9/30/99 — CIVIL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

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NOTES: (THIS SHEET ONLY)

1. CONTRACTOR SHALL CONTACT DWP INSPECTOR THREE (3) WORKING DAYS IN ADVANCE FOR ENTRY INTO DWP ELECTRICAL VAULT MANHOLE AND WITH LA CITY INSPECTOR FOR TRENCHING AND INSTALLATION OF CONDUIT.
2. INSTALL 120/240V, 3 WIRE, METERED, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH 100A, 240V, 2P MAIN CIRCUIT BREAKER AND 30A, 120V, 1P CIRCUIT BREAKER FOR RAMP METER.
3. TRENCH AND INSTALL CONDUIT IN SOIL.
4. TRENCH AND INSTALL CONDUIT IN ASPHALT.
5. ATTACH CONDUIT TO BRIDGE STRUCTURE. SEE SHEET C-4.
6. INSTALL 3"C, MT (CONDUCTORS BY OTHERS).
7. INSTALL 2"C, 2#8 AND 2"C (EMPTY).
8. INSTALL 2"C, 2#8.
9. INSTALL 1½"C, 2#8.
10. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
11. INSTALL CONDUIT IN THE SAME TRENCH.
12. INSTALL 6P22 CABLE AND CONNECT CABLE TO TERMINAL BLOCK INSIDE THE 334 CABINET.
13. INSTALL STATE-FURNISHED TYPE 334 CABINET ON A NEW FOUNDATION. CABINET TO INCLUDE STATE FURNISHED 170 CONTROLLER AND LOOP DETECTOR SENSORS. INSTALL TELEPHONE BRIDGE AND 12 PAIR TERMINAL BLOCK IN CONTROLLER CABINET. SEE SHEET E-54 FOR DETAILS.
14. INSTALL 2"C FROM COMMUNICATION PULL BOX TO PULL BOX IN FRONT OF CONTROLLER CABINET. INSTALL 1-6P22 CABLE IN CONDUIT.
15. FOR RAMP METERING SYSTEM DETAILS AND NOTES, SEE SHEET E-45.
16. LOCATIONS OF POLES, PULL BOXES, CONTROLLER CABINET AND POSITIONING OF DETECTORS ARE SCHEMATIC UNLESS OTHERWISE NOTED. BEFORE BEGINNING ANY CONSTRUCTION OPERATIONS, THE NEW LOCATIONS SHALL BE VERIFIED BY THE ENGINEER.

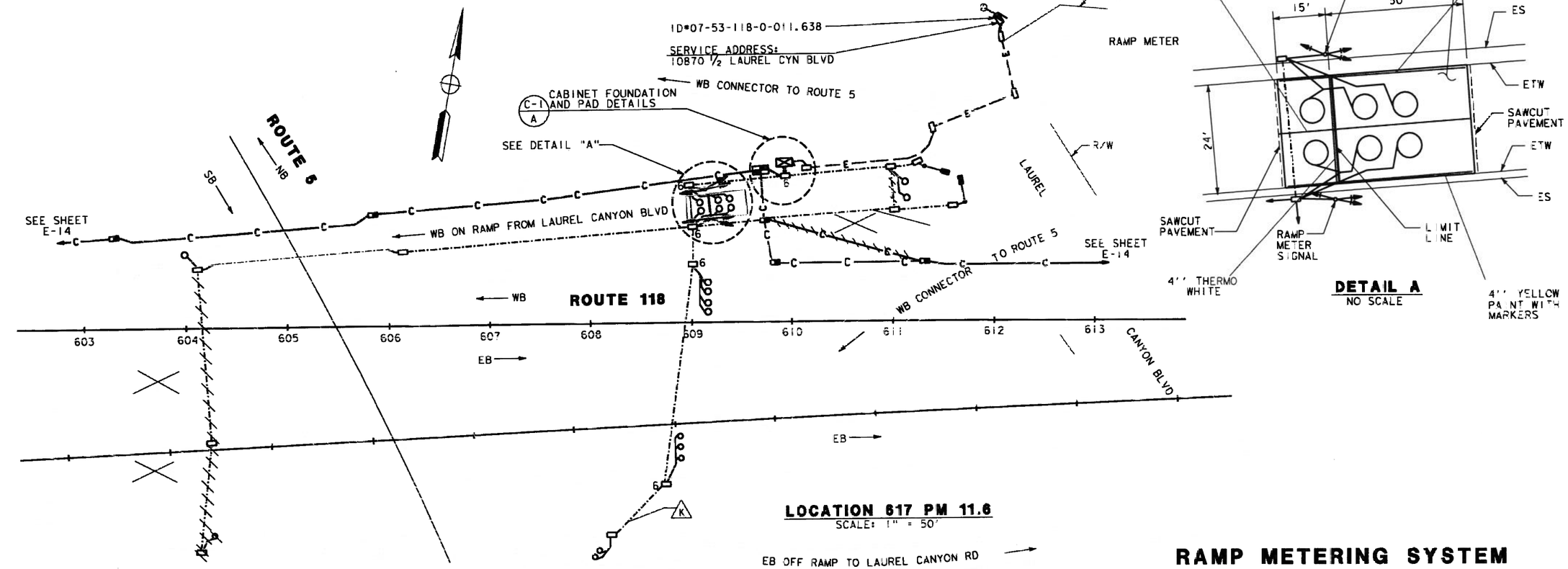
THIS ITEM IS NOT INCLUDED IN THE QUANTITIES PAYMENT ON THIS SHEET.

RAMP METER CONDUCTOR SCHEDULE

AWG OR CABLE	CONDUCTOR RUN	A	B	C	D	E	F	G	H	I	J	K
#14	RAMP SIGNAL				3	6					6	
	SPARES				3	3					3	
	TOTAL				6	9					9	
#10	SIGNAL COMMON				1	1					1	
	METER-ON SIGN				3		3	3	3	3	3	
	TOTAL				4⅓	1	3	3	3	3	4	
DLC	QUEUE DETECTOR									2	2	
	DEMAND DETECTOR				1	2					2	
	PASSAGE DETECTOR				1	2					2	
	SURVEILLANCE DETECTOR		3	7	7	7					7	
	COUNT DETECTOR	2	2	2	3⅓	3⅓					3⅓	2⅓
	TOTAL	2	53	97	121	113				2	161⅔	2⅓
	CONDUIT SIZE (INCHES)	1½"	3"	4"	4"	3"	1½"	3"	1½"	2"	2-3"	3"

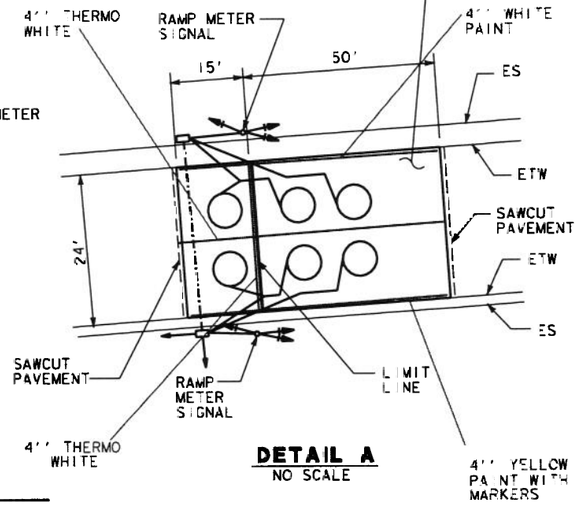
WARNING

BEFORE STARTING WORK ON EXISTING SERIES LIGHTING CIRCUITS, THE CONTRACTOR MUST OBTAIN DAILY SAFETY CIRCUIT CLEARANCE FROM SERVING COMPANIES, DISCONNECT CIRCUITS AND PLACE "MEN AT WORK" SIGNS NEAR OPEN SWITCHES BEFORE DOING ANY WORK ON CIRCUITS.



LOCATION 617 PM 11.6
SCALE: 1" = 50'

REMOVE 24' X 65 LF AC PAVEMENT AND BASE AND REPLACE WITH PCC, BASE AND SUB-BASE. SEE SHEET E-45 FOR NEW PAVEMENT CROSS SECTION DETAIL



DETAIL A
NO SCALE

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

RAMP METERING SYSTEM (LOCATION 617)

SCALE AS SHOWN

E-24

DATE	REVISED BY	DATE REVISED
4/94	KR	2/96

CALCULATED/DESIGNED BY: SRN 4/94
CHECKED BY: FTW 5/94

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION — DATE PLOTTED -> @DATE: 02 23 96 — TIME PLOTTED -> @TIME

DKS ASSOCIATES | /PROJECTS/POT/RAMP_MET/208TE24.DGN
FORM DC-OE-92-PF (REV. 3/88)

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

USERNAME => $USER
DGN FILE => $REQUEST

CU 07374

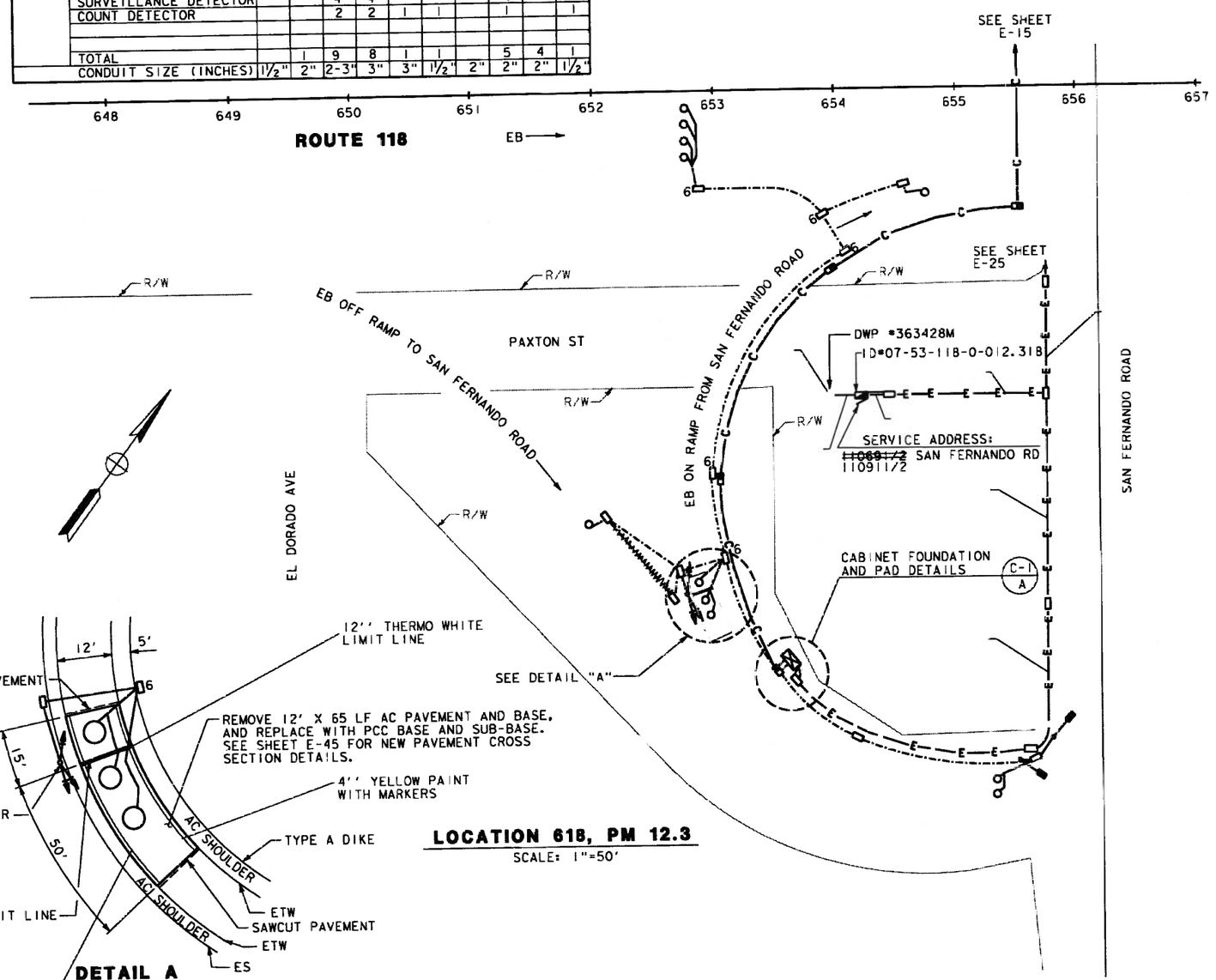
EA 120871

RAMP METER CONDUCTOR SCHEDULE

AWG OR CABLE	CONDUCTOR RUN	A	C	D	E	F	G	H	I	J	K
#14	RAMP SIGNAL			3	3	3		3			
	SPARES			3	3	3		3			
	TOTAL			6	6	6		6			
#10	SIGNAL COMMON			1	1	1		1			
	METER-ON SIGN	3	3	3							
	TOTAL	3	3	4	1	1		1			
DLC	QUEUE DETECTOR		1	1							
	DEMAND DETECTOR			1	1						
	PASSAGE DETECTOR			1	1						
	SURVEILLANCE DETECTOR			4	4				4	4	
	COUNT DETECTOR			2	2	1	1		1		1
	TOTAL		1	9	8	1	1		5	4	1
	CONDUIT SIZE (INCHES)	1½"	2"	2-3"	3"	3"	1½"	2"	2"	2"	1½"

WARNING

BEFORE STARTING WORK ON EXISTING SERIES LIGHTING CIRCUITS, THE CONTRACTOR MUST OBTAIN DAILY SAFETY CIRCUIT CLEARANCE FROM SERVING COMPANIES, DISCONNECT CIRCUITS AND PLACE "MEN AT WORK" SIGNS NEAR OPEN SWITCHES BEFORE DOING ANY WORK ON CIRCUITS.



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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	118	R0.0/R14.0	69	125

8/15/94
REGISTERED ELECTRICAL ENGINEER

7-22-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — VIOREL V. PREDESCU — No. 13472 — Exp. 9/30/98 — ELECTRICAL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:

WILLIAM J. YANG AND ASSOCIATES
847 N. HOLLYWOOD WAY, SUITE 100
BURBANK, CA 91505-2826

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.

NOTES: (THIS SHEET ONLY)

1. INSTALL 3"C TYPE H RISER ON SERVICE POLE PER UTILITY COMPANY REQUIREMENTS (CONDUCTORS BY OTHERS).
2. INSTALL 120/240V, 3 WIRE, METERED, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH 100A, 240V, 2P MAIN CIRCUIT BREAKER AND 2- 30A, 120V, 1P CIRCUIT BREAKERS FOR RMS, AND 30A, 120V, 1P CIRCUIT BREAKER FOR DATA NODE.
3. TRENCH AND INSTALL CONDUIT IN SOIL.
4. INSTALL 3"C, MT (CONDUCTORS BY OTHERS).
5. INSTALL 2"C, 2#8, 4#2 AND 2"C (EMPTY).
6. INSTALL 2"C, 2#8, 4#2.
7. INSTALL ½"C, 2#8.
8. TRENCH AND INSTALL CONDUIT IN CONCRETE.
9. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
10. ATTACH CONDUIT WITH COMMUNICATION CONDUIT TO THE BRIDGE STRUCTURE. SEE SHEETS E-15 AND C-8.
11. INSTALL STATE-FURNISHED TYPE 334 CABINET ON A NEW FOUNDATION. CABINET TO INCLUDE STATE-FURNISHED 170 CONTROLLER AND LOOP DETECTOR SENSOR. INSTALL TELEPHONE BRIDGE AND 12 PAIR TERMINAL BLOCK IN CONTROLLER CABINET. SEE SHEET E-54 FOR DETAIL.
12. INSTALL CONDUITS IN THE SAME TRENCH.
13. INSTALL 6P22 CABLE TO TERMINAL BLOCK INSIDE THE 334 CABINET.
14. USE THE SAME PIT FOR JACKING CONDUIT.
15. FOR RAMP METERING SYSTEM DETAILS AND NOTES SEE SHEET E-45.
16. LOCATIONS OF POLES, PULL BOXES, CONTROLLER CABINET AND POSITIONING OF DETECTORS ARE SCHEMATIC UNLESS OTHERWISE NOTED. BEFORE BEGINNING ANY CONSTRUCTION OPERATIONS, THE NEW LOCATIONS SHALL BE VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION.
17. INSTALL 2"C, 2#8
18. INSTALL 2"C, 4#2
21. THIS ITEM IS NOT INCLUDED IN THE QUANTITIES PAYMENT ON THIS SHEET.

RAMP METERING SYSTEM (LOCATION 618)

SCALE: AS SHOWN

E-26

CALCULATED/ DESIGNED BY	DATE	REVISED BY	DATE REVISED
CHECKED BY	4/94	SRN	5/94 FTW
	5/94	KR	2/96

DESIGN OVERSIGHT: PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

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DKS ASSOCIATES | /PROJECTS/PST/RAMP_MET/TOTAL.DGN

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

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DGN FILE =› &REQUEST

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EA 120871

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	118	R0.0/R14.0	79	125

Robert J Close 8/15/94
REGISTERED CIVIL ENGINEER

7-22-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — ROBERT J CLOSE — No. C41403 — EXP. 9/30/99 — CIVIL — STATE OF CALIFORNIA

DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

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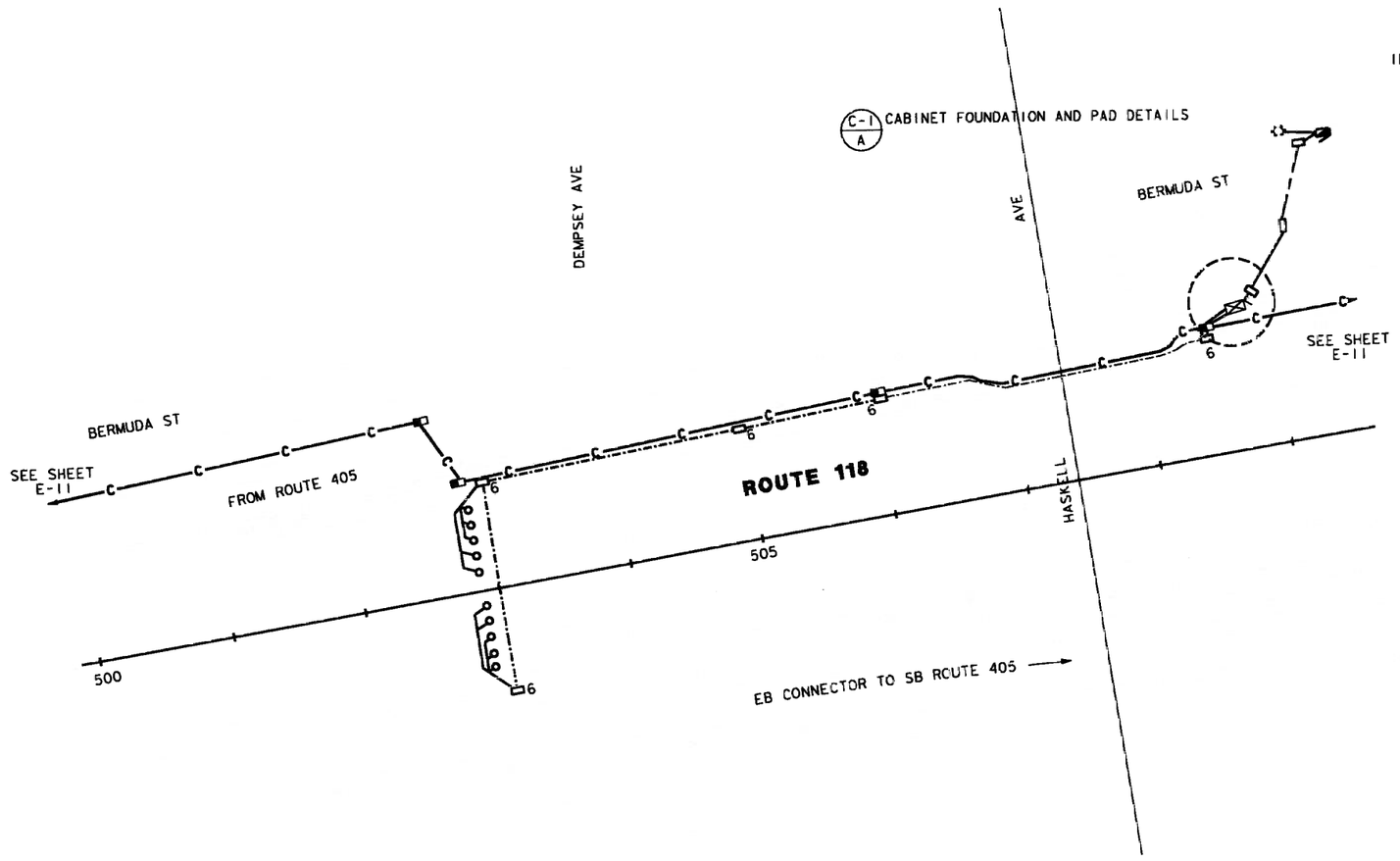
DATE	REVISED BY	CALCULATED/ DESIGNED BY
	DATE REVISED	CHECKED BY
2/96	KR	

DESIGN OVERSIGHT
PAT SULLIVAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

SP DWP PP=300955M

ID=07-53-118-0-009.402
SERVICE ADDRESS:
~~5700~~ BERMUDA STREET
5701½



LOCATION 2130, PM 9.4

NOTES: (THIS SHEET ONLY)

1. INSTALL 3"C TYPE 4 RISER ON SERVICE POLE PER UTILITY COMPANY REQUIREMENTS (CONDUCTORS BY OTHERS).
2. INSTALL 120/240V, 3 WIRE, METERED TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH 100A, 240V, 2P MAIN CIRCUIT BREAKER, AND 30A, 120V, 1P CIRCUIT BREAKER FOR TMS.
3. INSTALL 3"C, MT (CONDUCTORS BY OTHERS).
4. TRENCH AND INSTALL CONDUIT IN SOIL.
5. JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
6. INSTALL 2"C, 2#8 AND 2"C (EMPTY).
7. TRENCH AND INSTALL CONDUIT IN CONCRETE.
8. INSTALL 1½"C, 2#8.
9. INSTALL STATE-FURNISHED TYPE 334 CABINET ON NEW FOUNDATION CABINET TO INCLUDE STATE-FURNISHED 170 CONTROLLER AND LOOP DETECTOR SENSORS. INSTALL TELEPHONE BRIDGE AND 12-PAIR TERMINAL BLOCK IN CONTROLLER CABINET. SEE SHEET E-54 FOR DETAILS.
10. SEE SHEET E-46 FOR DLC INSTALLATION DETAIL.
11. SEE SHEET E-46 FOR TMS LOOP CONFIGURATION.
12. INSTALL 3"C, 6P22 CABLE AND CONNECT CABLE TO TERMINAL BLOCK INSIDE THE TYPE 334 CABINET.
13. TRENCH AND INSTALL CONDUIT IN ASPHALT.
14. INSTALL CONDUITS IN THE SAME TRENCH.
15. INSTALL 2"C, 6P22 FROM COMMUNICATION PULL BOX TO PULL BOX IN FRONT OF CONTROLLER CABINET.
17. LOCATION OF PULL BOXES, CONTROLLER CABINET AND POSITIONING OF DETECTORS ARE SCHEMATIC UNLESS OTHERWISE NOTED. BEFORE BEGINNING ANY CONSTRUCTION, THE LOCATIONS SHALL BE VERIFIED BY ENGINEER.
18. INSTALL 2"C, 2#8.
21. THIS ITEM IS NOT INCLUDED IN THE QUANTITIES PAYMENT ON THIS SHEET.

WARNING

BEFORE STARTING WORK ON EXISTING SERIES LIGHTING CIRCUITS, THE CONTRACTOR MUST OBTAIN DAILY SAFETY CIRCUIT CLEARANCE FROM SERVING COMPANIES, DISCONNECT CIRCUITS AND PLACE "MEN AT WORK" SIGNS NEAR OPEN SWITCHES BEFORE DOING ANY WORK ON CIRCUITS.

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

TRAFFIC MONITORING STATION (LOCATION 2130)

SCALE: 1" = 50'

E-35

LAST REVISION 00-00-00
DATE PLOTTED -> $DATE
TIME PLOTTED -> $TIME

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CU 07374

EA 120871