Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. ELECTRICAL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. FOR LEGEND AND SCHEDULES SEE SHEET E-21.
2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

See Example E4 to view legend and equipment/ conductor schedules for this example (E3).

This is one of four example plan sheets that depict construction of three new electrical systems at the same location.

Call out work for only one electrical system or service (irrigation/booster pump) on each plan view sheet. If multiple electrical systems are coincidentally located, call out the work for each system on separate plan view sheets that each depict the same or similar area of the project.

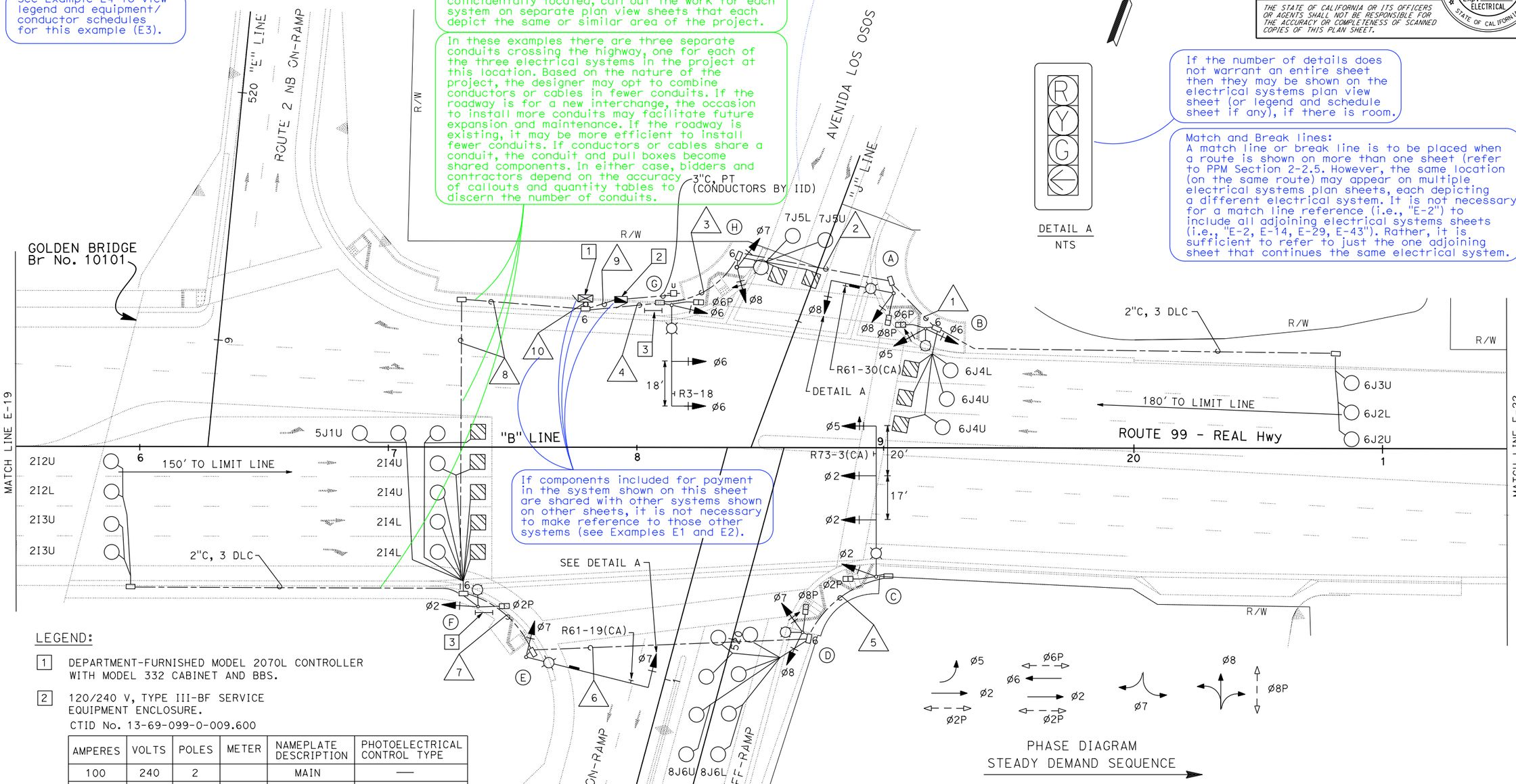
In these examples there are three separate conduits crossing the highway, one for each of the three electrical systems in the project at this location. Based on the nature of the project, the designer may opt to combine conductors or cables in fewer conduits. If the roadway is for a new interchange, the occasion to install more conduits may facilitate future expansion and maintenance. If the roadway is existing, it may be more efficient to install fewer conduits. If conductors or cables share a conduit, the conduit and pull boxes become shared components. In either case, bidders and contractors depend on the accuracy of callouts and quantity tables to discern the number of conduits.

If an abbreviation is used for the name of the local utility in a callout, you must identify the full name elsewhere on the same sheet or on a previous sheet.

If the number of details does not warrant an entire sheet then they may be shown on the electrical systems plan view sheet (or legend and schedule sheet if any), if there is room.

Match and Break lines:
A match line or break line is to be placed when a route is shown on more than one sheet (refer to PPM Section 2-2.5. However, the same location (on the same route) may appear on multiple electrical systems plan sheets, each depicting a different electrical system. It is not necessary for a match line reference (i.e., "E-2") to include all adjoining electrical systems sheets (i.e., "E-2, E-14, E-29, E-43"). Rather, it is sufficient to refer to just the one adjoining sheet that continues the same electrical system.

If components included for payment in the system shown on this sheet are shared with other systems shown on other sheets, it is not necessary to make reference to those other systems (see Examples E1 and E2).



LEGEND:

1. DEPARTMENT-FURNISHED MODEL 2070L CONTROLLER WITH MODEL 332 CABINET AND BBS.
2. 120/240 V, TYPE III-BF SERVICE EQUIPMENT ENCLOSURE.
   CTID No. 13-69-099-0-009.600

AMPERES	VOLTS	POLES	METER	NAMEPLATE DESCRIPTION	PHOTOELECTRICAL CONTROL TYPE
100	240	2		MAIN	—
40	120	1		SIGNAL	—
30	120	1		LIGHTING	—
15	120	1		IISNS	—
15	120	1		PEC	V

3. TYPE I PEDESTRIAN BARRICADE WITH 2-SIGN R9-3A AND 2-SIGN R9-3B BACK TO BACK.

ELECTRICAL SYSTEMS EXAMPLE E3,
SIGNAL AND LIGHTING W/ SHARED COMPONENTS

3 of 4

LOCATION 2

APPROVED FOR ELECTRICAL WORK ONLY

SIGNAL AND LIGHTING SYSTEM

SCALE: 1" = 20'

E-20

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® **ELECTRICAL DESIGN**

FUNCTIONAL SUPERVISOR | CALCULATED-DESIGNED BY | CHECKED BY | REVISED BY | DATE REVISED

EXAMPLE E3 SIGNAL&LIGHTING W/ SHARED COMPONENTS - RELEASED 2/02/2017

LAST REVISION 03-14-16 | DATE PLOTTED => 02-FEB-2 | TIME PLOTTED => 09:17