

**NOTE:**

ELECTRICAL SYSTEMS QUANTITY TABLES SUMMARIZE SIGNIFICANT COMPONENTS. SEE ELECTRICAL SYSTEMS PLANS AND SPECIFICATIONS TO DETERMINE ALL MATERIALS NEEDED FOR EACH SYSTEM.

With either option of quantifying locations separately, be consistent with modifiers used on plan view sheets.

**LIGHTING SYSTEM**

SHEET No.	LOCATION	(N)					
		240/120 V TRANSFORMER	LUMINAIRE	No. 5 PB	TYPE 1-B POLE (PEU)	1 1/2" CONDUIT	No. 6 CONDUCTOR
E-93	7		1	3		350	700
E-94	7		1	2		450	900
E-95						200	800
E-96	9			5		1000	4000
E-97		1	2			400	1600
E-98			1	2		200	400
E-99	10						
E-100	15		2	5	1	500	1000
E-101	20		2	8	1	700	1400
E-102	23		1	2		300	600
E-103	25		1	3		300	600

(N) - NOT A SEPARATE BID ITEM

OPTION

OPTION

The table on the left and the tables on the right are two alternative ways to show the SAME INFORMATION (do not use both on the same project). While the quantities shown here are relatively simple, one or the other may be more clear based on the character of the work.

Do not show totals of components at the bottom of the quantity table for a lump sum item.

**LIGHTING SYSTEM (LOCATION 7)**

SHEET No.	(N)					
	240/120 V TRANSFORMER	LUMINAIRE	No. 5 PB	TYPE 1-B POLE (PEU)	1 1/2" CONDUIT	No. 6 CONDUCTOR
E-93			1	3	350	700
E-94			1	1	450	900

(N) - NOT A SEPARATE BID ITEM

**LIGHTING SYSTEM (LOCATION 9)**

SHEET No.	(N)					
	240/120 V TRANSFORMER	LUMINAIRE	No. 5 PB	TYPE 1-B POLE (PEU)	1 1/2" CONDUIT	No. 6 CONDUCTOR
E-95					200	500
E-96				5	1000	4000
E-97	1		1		400	1600

(N) - NOT A SEPARATE BID ITEM

**LIGHTING SYSTEM (LOCATION 10)**

SHEET No.	(N)					
	240/120 V TRANSFORMER	LUMINAIRE	No. 5 PB	TYPE 1-B POLE (PEU)	1 1/2" CONDUIT	No. 6 CONDUCTOR
E-98			1	2	200	400
E-99						

(N) - NOT A SEPARATE BID ITEM

**LIGHTING SYSTEM (LOCATION 15)**

SHEET No.	(N)						
	240/120 V TRANSFORMER	LUMINAIRE	No. 5 PB	TYPE 1-B POLE (PEU)	1 1/2" CONDUIT	No. 6 CONDUCTOR	
E-100			2	5	1	500	1000

(N) - NOT A SEPARATE BID ITEM

**LIGHTING SYSTEM (LOCATION 20)**

SHEET No.	(N)						
	240/120 V TRANSFORMER	LUMINAIRE	No. 5 PB	TYPE 1-B POLE (PEU)	1 1/2" CONDUIT	No. 6 CONDUCTOR	
E-101			2	5	1	700	1400

(N) - NOT A SEPARATE BID ITEM

**LIGHTING SYSTEM (LOCATION 23)**

SHEET No.	(N)					
	240/120 V TRANSFORMER	LUMINAIRE	No. 5 PB	TYPE 1-B POLE (PEU)	1 1/2" CONDUIT	No. 6 CONDUCTOR
E-102			1	2	400	800

(N) - NOT A SEPARATE BID ITEM

**LIGHTING SYSTEM (LOCATION 25)**

SHEET No.	(N)					
	240/120 V TRANSFORMER	LUMINAIRE	No. 5 PB	TYPE 1-B POLE (PEU)	1 1/2" CONDUIT	No. 6 CONDUCTOR
E-103			1	3	300	600

(N) - NOT A SEPARATE BID ITEM

Quantities summarized in tabular format must show the bidder, contractor and resident engineer the bid items and their total quantities, their locations within the project limits, and the plan sheets on which they are shown. Quantity summary tables for electrical systems bid items are mandatory and must be included in the project plans for each bid item shown on the plans. When a bid item is called out both on roadway plans and electrical systems plans (for example, roadside signs) it shall be grand totaled on the appropriate table in the summary of quantities including references to the electrical systems plans sheets on which those quantity table entries are shown.

Electric service (irrigation/booster pump) bid items and most electrical systems bid items are paid for on a lump sum basis. A table of materials and components of work and their quantities must be included for each lump sum electrical systems bid item except Removing Existing Electrical System. Materials, components and quantities in quantity tables for lump sum bid items are for bidder and contractor information because not all materials needed are identified (e.g. hardware, consumables, slack in conductors, etc.). The note "ELECTRICAL SYSTEMS QUANTITY TABLES SUMMARIZE SIGNIFICANT COMPONENTS. SEE ELECTRICAL SYSTEMS PLANS AND SPECIFICATIONS TO DETERMINE ALL MATERIALS NEEDED FOR EACH SYSTEM." along with the note "(N) - NOT A SEPARATE BID ITEM" must be included with a stand-alone quantity table for lump sum bid items or on electrical systems quantity sheets with any combination of lump sum bid item quantity tables. Each column header or row header in the table or group column header or group row header in the table that shows items of work which are not separate bid items, must include the symbol "(N)" to clearly identify the item(s) as non-bid item(s).

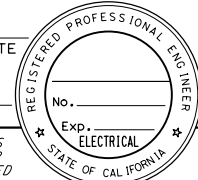
The title of the lump sum bid item quantity table must be consistent with the electrical systems plan view sheet name [bid item description]. If there are multiple locations or stages, include them either within the table or in the title of multiple tables for the bid item. Repeat locations, stages of work, and type of existing electrical system under modify existing electrical systems exactly as they appear in modifiers used on the plan view sheets. Arrange quantity tables on electrical systems quantities sheets in the same order as the plan view sheets they summarize (refer to Composition of Plans in PPM Section 2-2.23). Include minor, incidental roadway work included for payment in electrical systems lump sum payment, if any is shown on the plans. For example, a small amount of concrete curb or sidewalk associated with a cabinet foundation might be included in a lump sum bid item, when there is no applicable minor concrete item in the project.

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

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

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.



**ELECTRICAL SYSTEMS EXAMPLE I, ELECTRICAL SYSTEMS QUANTITIES**

**ELECTRICAL SYSTEMS QUANTITIES**

**EQ-122**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION



REVISOR BY DATE REVISED

CALCULATED BY DESIGNED BY CHECKED BY

FUNCTIONAL SUPERVISOR