

Electrical Contractor Serving Palmdale, Lancaster, CA

SHORT CIRCUIT CALCULATION

PANEL "A"
 MAX WATTAGES= 37,449 | MAX = 187.2 AMPS
 PANEL AL SCHEDULE
 MAXIMUM WATTS = 12,781 / MIN = 35 AMPS

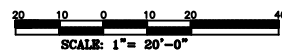
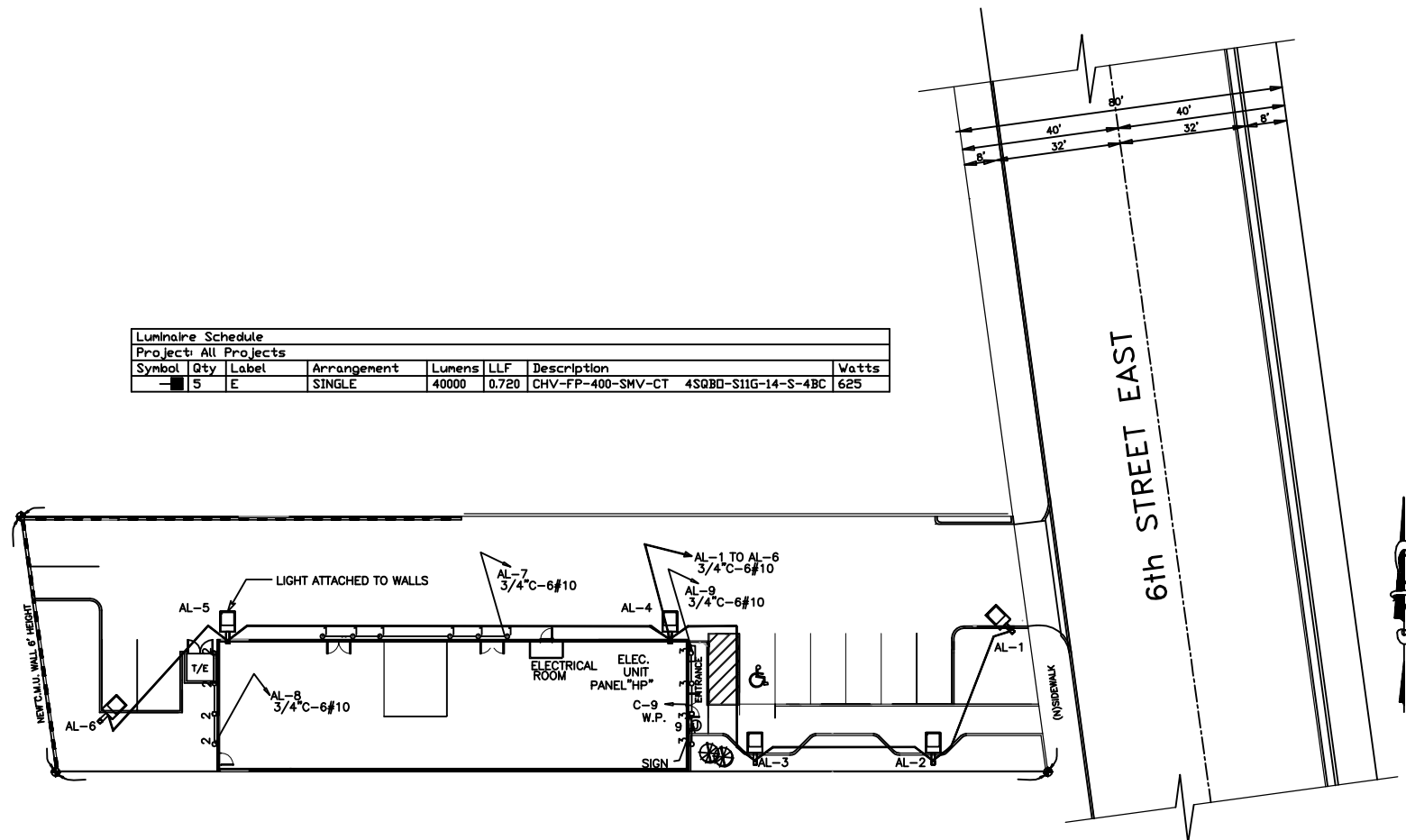
TOTAL LOAD= $\frac{37449}{1000} + \frac{12781}{1000}$
 = 187 A + 12.8 A
 = 200 A
 USE (1) ONE 200 AMP ELECTRIC PANEL

100 A BUS		PANEL AL SCHEDULE			LOCATION: STORAGE AREA			
CIR	NO. OF OUTLETS	WATTS			L.C. LOAD	BKR	LOCATION	
NO.		L-1	L-2	L-3	AMP	P		
1	1			2000	2000	30	2	POLE LIGHTS
2	1			2000	2000	20	2	
3	1			2000	2000	30	2	POLE LIGHTS
4	1			2000	2000	20	2	
5	1			2000	2000	30	2	POLE LIGHTS
6	1			2000	2000	30	2	POLE LIGHTS
7	6			1200	1200	20	2	EXTERNAL SPOT LIGHTS
8	4			800	800	20	2	EXTERNAL SPOT LIGHTS
9	4			800	800	20	2	EXTERNAL SPOT LIGHTS
10								SPACE
11								
12								
13								
14								
15								
16								
17								
CONNECTED WATTS / LINE		2625	3200	4400	14,400	VOLTAGE		
L.C. LOAD X BUS					3,600	MOUNTING LUGS ONLY		
TOTAL CONNECTED WATTS					18,000	MOUNTING		
MAXIMUM WATTS					18,000	FEEDER AMP'S		35 A

TYPE	POLE	QTY	BRACKET	QTY	OTHER	FIXTURE	WATTS/ASSEMBLY	TOTALS
(A)	15' POLE	4	1-PARKING LOT LIGHTS/POLE	1	---	PST-III-250-BOA6	250	250
(B)	15' POLE	2	1-PARKING LOT LIGHTS/POLE	1	---	PST-III-250-BOA6	250	250
(C)	NONE	0						
TOTAL							500	500

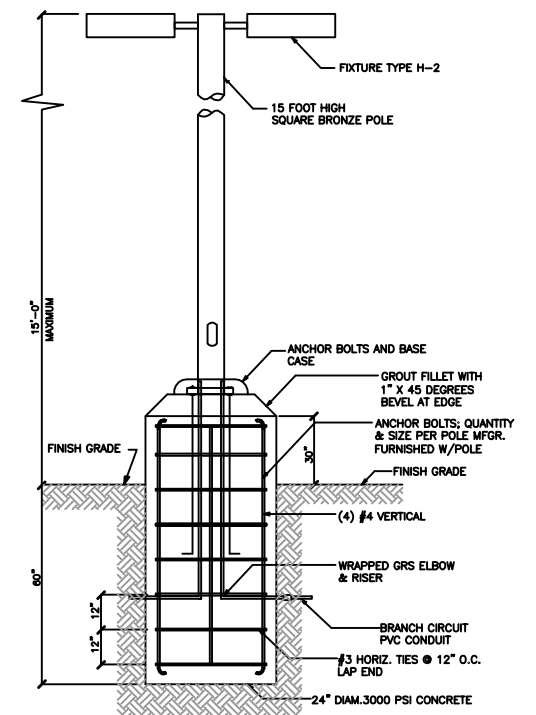
$I = \frac{KVA}{V}$ AMPERE
 $VD = \text{AMPERE} \times \text{RESISTANCE PER TABLE 9/NECX2L/1000}$
 $VD \text{ TOTAL} = VD \text{ at } VD \text{ e } + \dots$

Luminaire Schedule							
Project: All Projects							
Symbol	Qty	Label	Arrangement	Lumens	LLF	Description	Watts
■	5	E	SINGLE	40000	0.720	CHV-FP-400-SHV-CT 4SQBD-S11G-14-S-4BC	625



EXTERIOR LIGHTING PLAN

SCALE: 1"=20'-0"



1-LIGHT POLE DETAIL