

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot
one sixteenth inch = one foot

GENERAL SYSTEMS PLAN NOTES

- A. REFER TO E-001 FOR ELECTRICAL LEGEND, GENERAL NOTES, AND ABBREVIATIONS.
- B. REFER TO SHEET ES102 FOR LOCATION OF EXTERIOR MOUNTED TRANSFORMER.
- C. REFER TO DRAWING E-501 FOR INFORMATION ON SURGE PROTECTION DEVICE (SPD).

KEYED SITE PLAN NOTES

1. EXISTING ELECTRICAL PANEL "162" TO REMAIN. PROVIDE NEW 100/3 CIRCUIT BREAKER WITHIN EXISTING PANEL. NEW CIRCUIT BREAKER TYPE SHALL MATCH EXISTING.
2. PROVIDE NEW ELECTRICAL PANEL AS INDICATED. REFER TO PANELBOARD SCHEDULE ON THIS SHEET FOR FURTHER INFORMATION.
3. PROVIDE 125KA SURGE PROTECTION DEVICE. SPD SHALL BE IN NEMA 3R ENCLOSURE. MOUNT SPD TO BOTTOM OF NEW ELECTRICAL PANEL. REFER TO SPD SCHEDULE ON THIS SHEET FOR FURTHER INFORMATION.
4. EXISTING ELECTRICAL PANEL "SLD" TO REMAIN. PROVIDE NEW 50/3 CIRCUIT BREAKER WITHIN EXISTING PANEL. NEW CIRCUIT BREAKER TYPE SHALL MATCH EXISTING.
5. PROVIDE NEW TRANSFORMER "T-LVP" AS INDICATED. REFER TO TRANSFORMER SCHEDULE ON SHEET EP501 FOR FURTHER INFORMATION.
6. MOUNT PANEL "LVP" AS CLOSE AS POSSIBLE TO TRANSFORMER "T-LVP." FEEDER CONDUCTOR SHALL NOT EXCEED 10'-0" IN LENGTH AS MEASURED FROM LUG CONNECTION TO LUG CONNECTION IN COMPLIANCE WITH NEC ARTICLE 450.3.b.
7. PROVIDE SEPARATELY DERIVED GROUND SYSTEM. INSTALL IN COMPLIANCE WITH NEC ARTICLE 250.66.

PANEL INFORMATION				100A MCB				VOLTS				3PH-4W				PANEL "SLD"				PANEL RATING & FEEDER				100 AMPS			
MAIN TYPE				277/ 480				SURFACE				MOUNT				NORMAL POWER				PANEL AMPACITY:				#3 THWN			
VOLTAGE				14000				AIC				EXISTING PANEL								PHASE CONDUCTORS:				#8 THWN			
MOUNTING																				NEUTRAL				(1)			
AIC RATING																				# OF SETS				(1 SET)			
ENCLOSURE TYPE				NEMA-3R																SOURCE				SEE RISER			

LOAD IN VOLT AMPS (VA)												LOAD IN VOLT AMPS (VA)											
CKT	DESCRIPTION	CB AMPS	WIRE SIZE	LTG (125%)	RECEPT.	KITCHEN	HVAC	MISC	PHASE	MISC	HVAC	KITCHEN	RECEPT.	LTG (125%)	WIRE SIZE	CB AMPS	DESCRIPTION	CKT					
1	EXTERIOR LIGHTING (EXISTING) *	20	#10	2000	1440				A	4000					#8	50	TRANSFORMER T-LVP (30) KVA **	2					
3				2000	1080				B	4000				4									
5				2000					C	4000				6									
7				2000					A					8									
9	EXTERIOR LIGHTING (EXISTING) *	20	#10	2000					B						-	-	SPACE ONLY	10					
11				2000					C					-	-	SPACE ONLY	12						
TOTAL LOADS				12000	2520	0	0	0		12000	0	0	0	0			TOTAL LOADS						

PANEL NOTES

* EXISTING CIRCUIT BREAKER TO REMAIN, CONNECT NEW WIRING TO EXISTING BREAKER.

** PROVIDE NEW CIRCUIT BREAKER IN EXISTING PANEL, NEW CIRCUIT BREAKER SHALL MATCH EXISTING.

LOAD CALCULATION (NEC 2008 - ARTICLE 220)			
LOAD TYPE	LOAD (kVA)	DEMAND %	DEMAND LOAD
LIGHTING	12.00	1.25	15.0
RECEPTACLES	2.52	1.00	2.5
RECEPTACLES > 10000	0.00	0.50	0.0
KITCHEN EQUIPMENT	0.00	0.65	0.0
MISC.	12.00	1.00	12.0
HVAC	0.00	1.00	0.0
TOTAL kW DEMAND			29.5
TOTAL DEMAND AMPS		100%	35.51