

GENERAL SYSTEMS PLAN NOTES

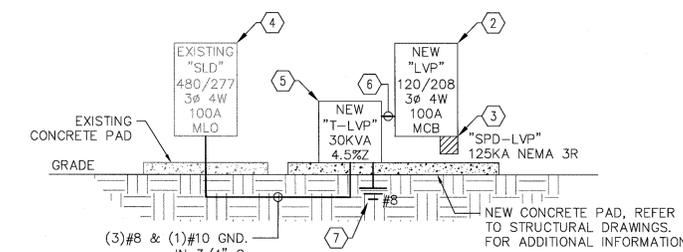
- A. REFER TO E-001 FOR ELECTRICAL LEGEND, GENERAL NOTES, AND ABBREVIATIONS.
- B. REFER TO SHEET ES102 FOR LOCATION OF EXTERIOR MOUNTED TRANSFORMER.
- C. REFER TO DRAWING E-501 FOR INFORMATION ON SURGE PROTECTION DEVICE (SPD).

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 TO FEED XFMR "T-LVP". 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 "SLD"										PANEL RATING & FEEDER									
MAIN TYPE										PANEL AMPCITY:									
100A MCB										100 AMPS									
277/480 VOLTS										#3 THWN									
SURFACE MOUNT										#8 THWN									
14000 AIC										(1 SET)									
NEMA-3R										SEE RISER									
NORMAL POWER										EXISTING PANEL									
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	EXTERIOR LIGHTING (EXISTING) *	20	#10	2000					A								SPACE ONLY	8	
9				2000					B								SPACE ONLY	10	
11	EXTERIOR LIGHTING (EXISTING) *	20	#10	2000					C								SPACE ONLY	12	
TOTAL LOADS				12000	2520	0	0	0		12000	0	0	0	0			TOTAL LOADS		

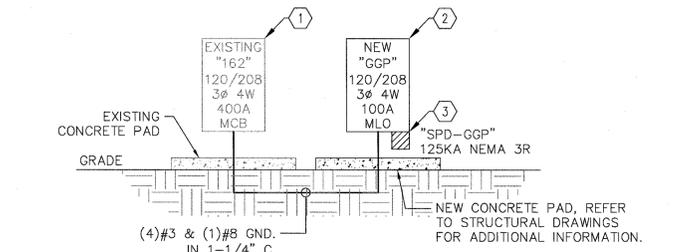
PANEL "LVP"										PANEL RATING & FEEDER									
MAIN TYPE										PANEL AMPCITY:									
100A MCB										100 AMPS									
120/208 VOLTS										#3 THWN									
SURFACE MOUNT										#8 THWN									
10000 AIC										(1 SET)									
NEMA-3R										SEE RISER									
NORMAL POWER										NEW PANEL									
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	SPACE								A						#12	20	EXTERIOR RECEPTACLE **	2	
3	SPACE								B							20	EXTERIOR RECEPTACLE **	4	
5	SPACE								C							20	EXTERIOR RECEPTACLE **	6	
7	SPACE								A							20	EXTERIOR RECEPTACLE **	8	
9	SPACE								B								SPACE	10	
11	SPACE								C								SPACE	12	
13	SPACE								A								SPACE	14	
15	SPACE								B								SPACE	16	
17	SPACE								C								SPACE	18	
19	SPACE								A								SPACE	20	
21	SPACE								B								SPACE	22	
23	SPACE								C								SPACE	24	
25	SPACE								A								SPACE	26	
27	SPACE								B								SPACE	28	
29	SPACE								C								SPACE	30	
31	SPACE								A								SPACE	32	
33	SPACE								B								SPACE	34	
35	SPACE								C								SPACE	36	
37	SPACE								A								SPACE	38	
39	SPACE								B								SPACE	40	
41	SPACE								C								SPACE	42	
TOTAL LOADS					0	0	0	0		0	0	0	0	0	#10	30	SPD-LVP (125 KA)		



MOUNTING: SURFACE				PANEL "162"		65,000 AIC	
120/208 VOLT				400A MAIN CIRCUIT BREAKER			
3 PHASE / 4 WIRE							
CKT NO.	TRIP RATING	NO. OF POLES	INTERRUPTING AMPS (NOTE 1)	LOAD SERVED	WIRE SIZE	REMARKS	
1	100	3	65,000	PANEL "GGP" (NEW)	SEE RISER	PROVIDE NEW CIRCUIT BREAKER	
2	100	2	65,000	SPARE CIRCUIT BREAKER	SEE RISER	EXISTING TO REMAIN	
3	100	2	65,000	EXISTING LOAD	SEE RISER	EXISTING TO REMAIN	
4	-	-	-	SPACE AND BUS	NONE	EXISTING SPACE AND BUS	
5	-	-	-	SPACE AND BUS	NONE	EXISTING SPACE AND BUS	
6	-	-	-	SPACE AND BUS	NONE	EXISTING SPACE AND BUS	
7	-	-	-	SPACE AND BUS	NONE	EXISTING SPACE AND BUS	
8	-	-	-	SPACE AND BUS	NONE	EXISTING SPACE AND BUS	
9	-	-	-	SPACE AND BUS	NONE	EXISTING SPACE AND BUS	
10	-	-	-	SPACE AND BUS	NONE	EXISTING SPACE AND BUS	

GENERAL NOTES:

- A. EXISTING CIRCUIT BREAKERS WITHIN PANEL ARE MANUFACTURED BY CUTLER - HAMMER, CATALOG NO. ED2100, STYLE NO. 6610C74G16.
- B. NEW CIRCUIT BREAKERS INSTALLED WITHIN EXISTING ELECTRICAL PANELS SHALL MATCH EXISTING CIRCUIT BREAKERS.



CONSULTANTS: 		ARCHITECT/ENGINEERS: 200 Envoy Circle #201, Louisville KY 40299 - PH: 502.339.8511 - www.paradigmusa.com		Drawing Title ELECTRICAL RISER DIAGRAMS		Project Title IMPROVE CAMPUS ACCESS AND SECURITY		Project Number 552-16-101		Office of Construction and Facilities Management	
Approved Project Director		Location DAYTON VA MEDICAL CENTER 400 W. THIRD STREET, DAYTON, OH 45428-9000		Date 04-07-2017		Checked WLM		Drawn MMF		Building Number -	
Revisions:		Date		Drawing Number EP502		Department of Veterans Affairs					

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

BID DOCUMENTS
 FOR CONSTRUCTION
 Office of Construction and Facilities Management
 Department of Veterans Affairs