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123456789101112131415

COPPER FEEDER SCHEDULE									
FEEDER (AMPS)	COND. SIZE	2-WIRE W/ GROUND	FEEDER (AMPS)	COND. SIZE	3-WIRE W/ GROUND	FEEDER (AMPS)	COND. SIZE	4-WIRE W/ GROUND	
15S	12	2#12, 1#12G IN 3/4"C	15	12	3#12, 1#12G IN 3/4"C	15N	12	4#12, 1#12G IN 3/4"C	
20S	12	2#12, 1#12G IN 3/4"C	20	12	3#12, 1#12G IN 3/4"C	20N	12	4#12, 1#12G IN 3/4"C	
30S	10	2#10, 1#10G IN 3/4"C	30	10	3#10, 1#10G IN 3/4"C	30N	10	4#10, 1#10G IN 3/4"C	
35S	8	2#8, 1#10G IN 3/4"C	35	8	3#8, 1#10G IN 3/4"C	35N	8	4#8, 1#10G IN 3/4"C	
40S	8	2#8, 1#10G IN 3/4"C	40	8	3#6, 1#10G IN 3/4"C	40N	8	4#6, 1#10G IN 3/4"C	
45S	6	2#6, 1#10G IN 3/4"C	45	6	3#6, 1#10G IN 3/4"C	45N	6	4#6, 1#10G IN 3/4"C	
50S	6	2#6, 1#10G IN 3/4"C	50S	6	3#6, 1#10G IN 3/4"C	50N	6	4#6, 1#10G IN 3/4"C	
60S	4	2#4, 1#10G IN 3/4"C	60S	4	3#4, 1#10G IN 1"C	60N	4	4#4, 1#10G IN 1"C	
70S	4	2#4, 1#8G IN 1"C	70	4	3#4, 1#10G IN 1"C	70N	4	4#4, 1#10G IN 1"C	
80S	3	2#3, 1#8G IN 1"C	80	3	3#3, 1#8G IN 1"C	80N	3	4#3, 1#8G IN 1"C	
90S	2	2#2, 1#8G IN 1"C	90	2	3#2, 1#8G IN 1 1/4"C	90N	2	4#2, 1#8G IN 1 1/4"C	
100S	1	2#1, 1#8G IN 1 1/4"C	100	1	3#1, 1#8G IN 1 1/4"C	100N	1	4#1, 1#8G IN 1 1/4"C	
			110	2	3#2, 1#6G IN 1 1/4"C	110N	2	4#2, 1#6G IN 1 1/4"C	
			125	1	3#1, 1#6G IN 1 1/4"C	125N	1	4#1, 1#6G IN 3/4"C	
			150	1/0	3#1/0, 1#6G IN 1 1/4"C	150N	1/0	4#1/0, 1#6G IN 1 1/4"C	
			175	2/0	3#2/0, 1#6G IN 1 1/2"C	175N	2/0	4#2/0, 1#6G IN 1 1/2"C	
			200	3/0	3#3/0, 1#6G IN 2"C	200N	3/0	4#3/0, 1#6G IN 2"C	
			225	4/0	3#4/0, 1#4G IN 2"C	225N	4/0	4#4/0, 1#4G IN 2"C	
			250	250	3#250 KCMIL, 1#4G IN 2"C	250N	250	4#250 KCMIL, 1#4G IN 2"C	
			300	350	3#350 KCMIL, 1#4G IN 2"C	300N	350	4#350 KCMIL, 1#4G IN 2"C	
			350	500	3#500 KCMIL, 1#3G IN 3"C	350N	500	4#500 KCMIL, 1#3G IN 3"C	
			400	600	3#600 KCMIL, 1#3G IN3"C	400N	600	4#600 KCMIL, 1#3G IN3"C	
			450	2-3/0	(2) 3#3/0 KCMIL, 1#2G IN 2"C	450N	2-3/0	(2) 4#3/0 KCMIL, 1#2G IN 2"C	
			500	2-250	(2) 3#250 KCMIL, 1#2G IN 2 1/2"C	500N	2-250	(2) 4#250 KCMIL, 1#2G IN 2 1/2"C	
			600	2-300	(2) 3#300 KCMIL, 1#1G IN 2 1/2"C	600N	2-300	(2) 4#300 KCMIL, 1#1G IN 2 1/2"C	
			700	2-500	(2) 3#500 KCMIL, 1#1/0G IN 3"C	700N	2-500	(2) 4#500 KCMIL, 1#1/0G IN 3"C	
			800	2-600	(2) 3#600 KCMIL, 1#1/0G IN 3"C	800N	2-600	(2) 4#600 KCMIL, 1#1/0G IN 3"C	
			1000	3-500	(3) 3#500 KCMIL, 1#1/0G IN 3"C	1000N	3-500	(3) 4#500 KCMIL, 1#1/0G IN 3"C	
			1200	3-600	(3) 3#600 KCMIL, 1#3/0G IN 4"C	1200N	3-600	(3) 4#600 KCMIL, 1#3/0G IN 4"C	
			1600	4-600	(4) 3#600 KCMIL, 1#4/0G IN 4"C	1600N	4-600	(4) 4#600 KCMIL, 1#4/0G IN 4"C	
			1900	5-500	(5) 3#500 KCMIL, 1#250 KCMIL IN 4"C	1900N	5-500	(5) 4#500 KCMIL, 1#250 KCMIL IN 4"C	
						2000N	5-600	(5) 4#600 KCMIL, 1#250 KCMIL IN 4"C	

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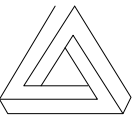
120V SINGLE-PHASE CIRCUIT LENGTH TABLE							
BREAKER AMPACITY (AMPS)	MAX. CIRCUIT CURRENT (AMPS)	MAX. CIRCUIT LOAD (VA)	MAXIMUM LENGTH IN FEET				
			#12AWG	#10AWG	#8AWG	#6AWG	#4AWG
20	4	480	220	349	556	882	-
	8	960	110	174	278	441	701
	12	1440	73	116	185	294	467
	16	1920	55	87	139	221	350
30	24	2880	-	58	93	147	234
40	32	3840	-	-	70	110	175
50	40	4800	-	-	-	88	140
60	48	5760	-	-	-	-	117

208V SINGLE-PHASE CIRCUIT LENGTH TABLE							
BREAKER AMPACITY (AMPS)	MAX. CIRCUIT CURRENT (AMPS)	MAX. CIRCUIT LOAD (VA)	MAXIMUM LENGTH IN FEET				
			#12AWG	#10AWG	#8AWG	#6AWG	#4AWG
20	4	832	380	605	964	-	-
	8	1664	190	302	482	765	-
	12	2496	127	202	321	510	810
	16	3328	95	151	241	382	607
30	24	4992	-	101	161	255	405
40	32	6656	-	-	121	191	304
50	40	8320	-	-	-	153	243
60	48	9984	-	-	-	-	202

208V THREE-PHASE CIRCUIT LENGTH TABLE							
BREAKER AMPACITY (AMPS)	MAX. CIRCUIT CURRENT (AMPS)	MAX. CIRCUIT LOAD (VA)	MAXIMUM LENGTH IN FEET				
			#12AWG	#10AWG	#8AWG	#6AWG	#4AWG
20	4	1440	439	698	1113	-	-
	8	2880	220	349	557	883	-
	12	4320	127	233	371	589	935
	16	5760	95	175	278	442	701
30	24	8640	-	116	186	294	468
40	32	11520	-	-	139	221	351
50	40	14400	-	-	-	177	281
60	48	16200	-	-	-	-	234

John Grace Arms
21030 Indian St, Southfield MI 48033
Developed by
John Grace Arms LDHA LLC

SDG
Architects + Planners
607 Shelby Street
Suite 704
Detroit, MI 48226
Tel: 313-961-9000
Fax: 313-964-3233


A & A Engineering & Consulting
28862 Vista Way, South Lyon, MI 48178

REGISTRATION SEAL

KEY PLANS

SHEET TITLE
ELECTRICAL & LIGHTING
SCHEDULES

SCALE: AS NOTED

ISSUED FOR
Permits
Bulletin No. 3
DATE
12.20.2024
06.03.2025

DRAWN BY
SC

CHECKED
MJ

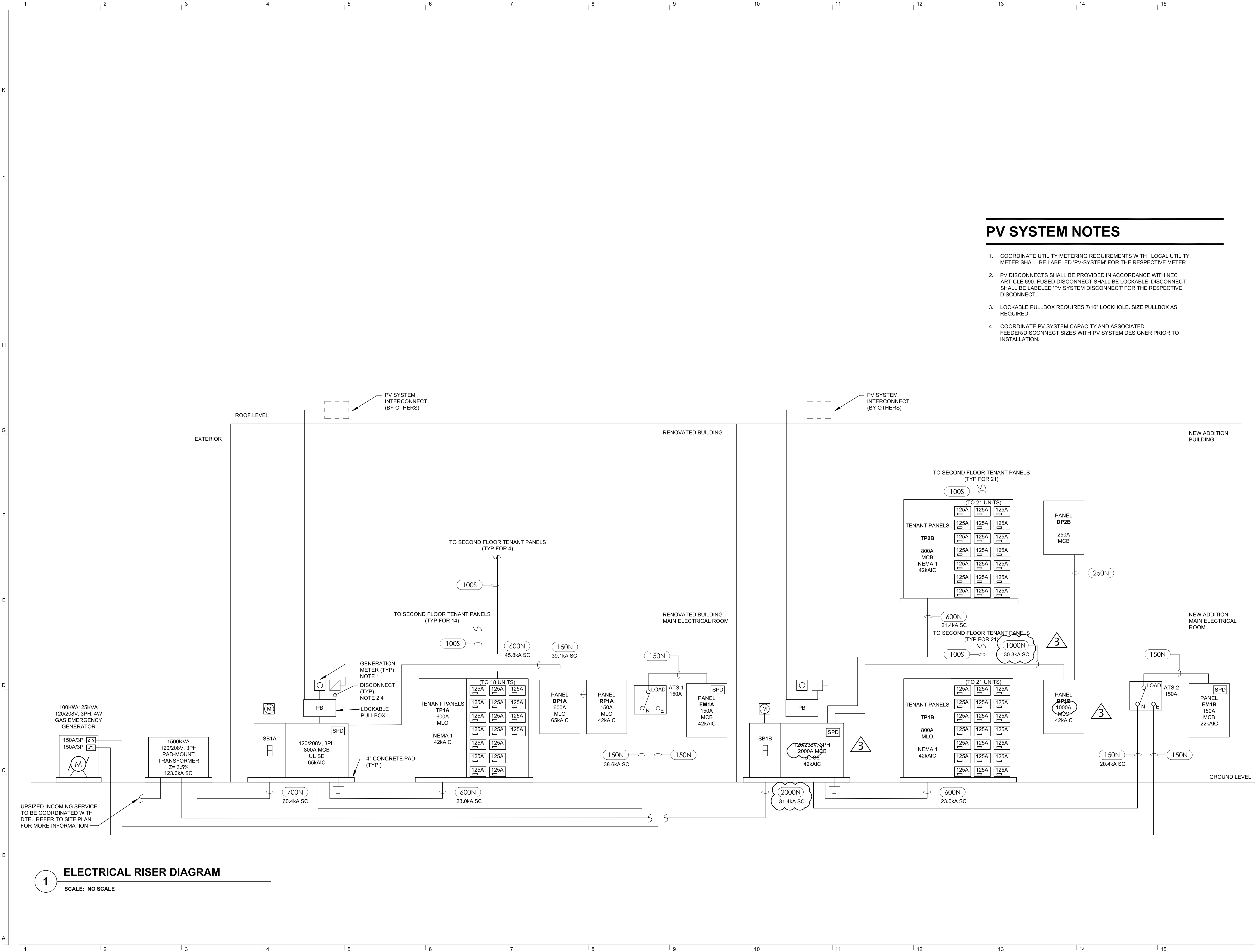
APPROVED

21026.00

FILE NO.
E-002

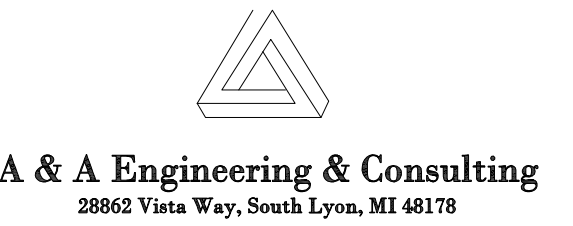
SHEET NO.

123456789101112131415



1 ELECTRICAL RISER DIAGRAM
SCALE: NO SCALE

John Grace Arms
21030 Indian St, Southfield MI 48033
Developed by
John Grace Arms LDHA LLC



KEY PLANS

SHEET TITLE
**ELECTRICAL RISER
DIAGRAM - EXISTING &
NEW ADDITION**

SCALE: AS NOTED

ISSUED FOR: Permits
DATE: 12.20.2024
Bulletin No. 3
06.03.2025

DRAWN BY:
CHECKED:
APPROVED:
21026.00
FILE NO.:
E-004

3PH PANELBOARD										SB1B		SCHEDULE												
VOLTAGE: 208Y/120 BUS SIZE: 2000 AMP										MAINS: 2000 MCB		3		MOUNTING: SURFACE FAULT DUTY 42k										
												3												
No.	SERVES		LOAD (KVA)					BRKR		PH		BRKR		LOAD (KVA)					SERVES		No.			
1			LTG	RCPT	MTR	A/C	HTG	MISC	TRIP	P	A	B	C	P	MISC	HTG	A/C	MTR	RCPT	LTG		2		
3	TP2B							62.0		X					45.4	0.8	48.1	0.0	2.0	1.7		4		
4								62.0	800	3	X				45.4	0.8	48.1	0.0	2.0	1.7		6		
5									62.0		X					45.4	0.8	48.1	0.0	2.0	1.7		8	
7	TP1B							62.0		X					0.7	0.0	0.0	3.0	0.2	0.3		10		
9								62.0	800	3	X				0.7	0.0	0.0	3.0	0.2	0.3		12		
11									62.0		X					0.7	0.0	0.0	3.0	0.2	0.3		14	
13																						16		
15																						18		
17																								