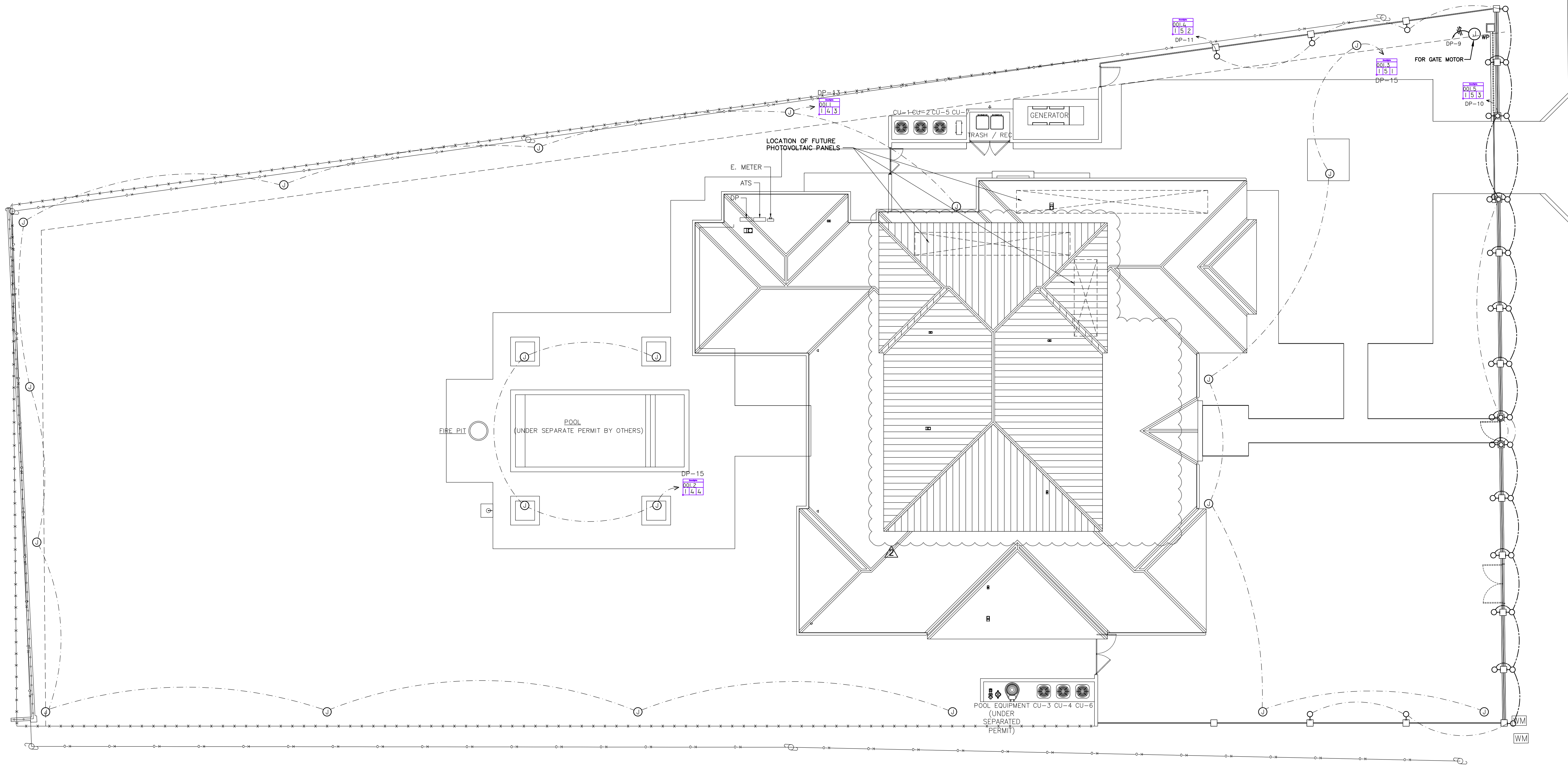


- NOTES:
1. POOL AND POOL PANEL UNDER SEPARATE PERMIT.
 2. OUTLETS WITHIN 5'-25" OF POOL MUST BE GFCI PROTECTED.
 3. FIXTURES WITHIN 5' OF POOL MUST BE GFCI PROTECTED.
 4. ELECTRICAL SYSTEMS, EQUIPMENT AND COMPONENTS; HEATING, VENTILATION, AIR CONDITIONING; PLUMBING APPLIANCES AND PLUMBING FIXTURES; DUCT SYSTEMS; AND OTHER SERVICE EQUIPMENT (WATER HEATERS, GENERATORS, ELECTRICAL PANELS, ETC.) SHALL BE ELEVATED AT 1 FT ABOVE DESIGN FLOOD ELEVATION* (ASCE 24-14 Ch. 7.0).
 5. ALL OUTDOOR INSTALLATIONS SHALL COMPLY WITH NEC 110.11, 358.12 AND 110.28 CORROSIVE AGENTS.
 6. NO IRRIGATION, LIGHTING, OR ELECTRICAL COMPONENTS OF ANY KIND MAY BE INSTALLED IN THE ROW.
 7. PHOTOVOLTAIC SYSTEMS: INSTALL A MINIMUM OF ONE-INCH DIAMETER CONDUIT FOR EACH PANEL, LEADING FROM AN EXTERIOR SOUTH-FACING, EAST-FACING, OR WEST-FACING ROOF, WHERE A MINIMUM OF FOUR HOURS OF DIRECT SUNLIGHT IS ACHIEVED, TO A STUBBED JUNCTION BOX ADJACENT TO THE ELECTRICAL METER. ALL EXPOSED CONDUIT SHALL BE CAPED AND PROVIDED WITH ADEQUATE FLASHING. THE CONDUIT SHALL NOT BE LOCATED ON OR IN THE DIRECTION OF A NORTH FACING ROOF. ROOF REINFORCEMENTS SHALL BE ADDRESSED AT THE TIME OF INSTALLATION.



NORTH
ELECTRICAL SITE PLAN
SCALE: 3/32" = 1'-0"

Ricardo Perez de Alejo
Digitally signed by Ricardo Perez de Alejo
Date: 2026.06.01 15:54:33 -05'00'

SCOPE OF WORK FOR REVISION
OWNER DESIGN CHANGE: REMOVING DOUBLE HEIGHT LIVING ROOM. ALL ARCHITECTURAL SHEETS AFFECTED. SOME MEP PAGES AND SOME STRUCTURAL. SEE ADO REV 3 COLUMN FOR UPDATED SHEET LIST.

RPA Engineering
PROVIDING MEP SOLUTIONS
RPA
7930 NW 197th St.
Miami, Florida 33015
Phone: 305 308 8857
Fax: 305 308 3847
email: rperez@rpa-engineering.com

RICARDO PEREZ DE ALEJO
LICENSE
No. 58728
STATE OF FLORIDA
PROFESSIONAL ENGINEER
RICARDO PEREZ, P.E. 58728

NOTE :

THIS DRAWING IS PROPERTY OF SV DESIGN, INC. AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN CONSENT OF SV DESIGN, INC. THIS DRAWING IS TO BE USED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. THE SCALES ARE AS STATED. THE CONTRACTOR SHALL CAREFULLY REVIEW ALL DIMENSIONS AND CONDITIONS SHOWN AND IMMEDIATELY NOTIFY THE ARCHITECT AS TO ANY ERRORS, OMISSIONS, OR INCONSISTENCIES DISCOVERED.
COPYRIGHT © SV DESIGN, INC.

CLIENT :

ALBERT MILO
11901 SW 63RD AVE
PINECREST, FL 33132

PROJECT INFORMATION :

MILO RESIDENCE
11901 SW 63 RD AVE
PINECREST, FL 33156

ARCHITECT :

SV DESIGN, INC.
1900 CORAL WAY #301, MIAMI, FL 33145
T. 786.356.3799 F. 305.856.7478 www.svdesigninc.com

DRAWING INFORMATION :

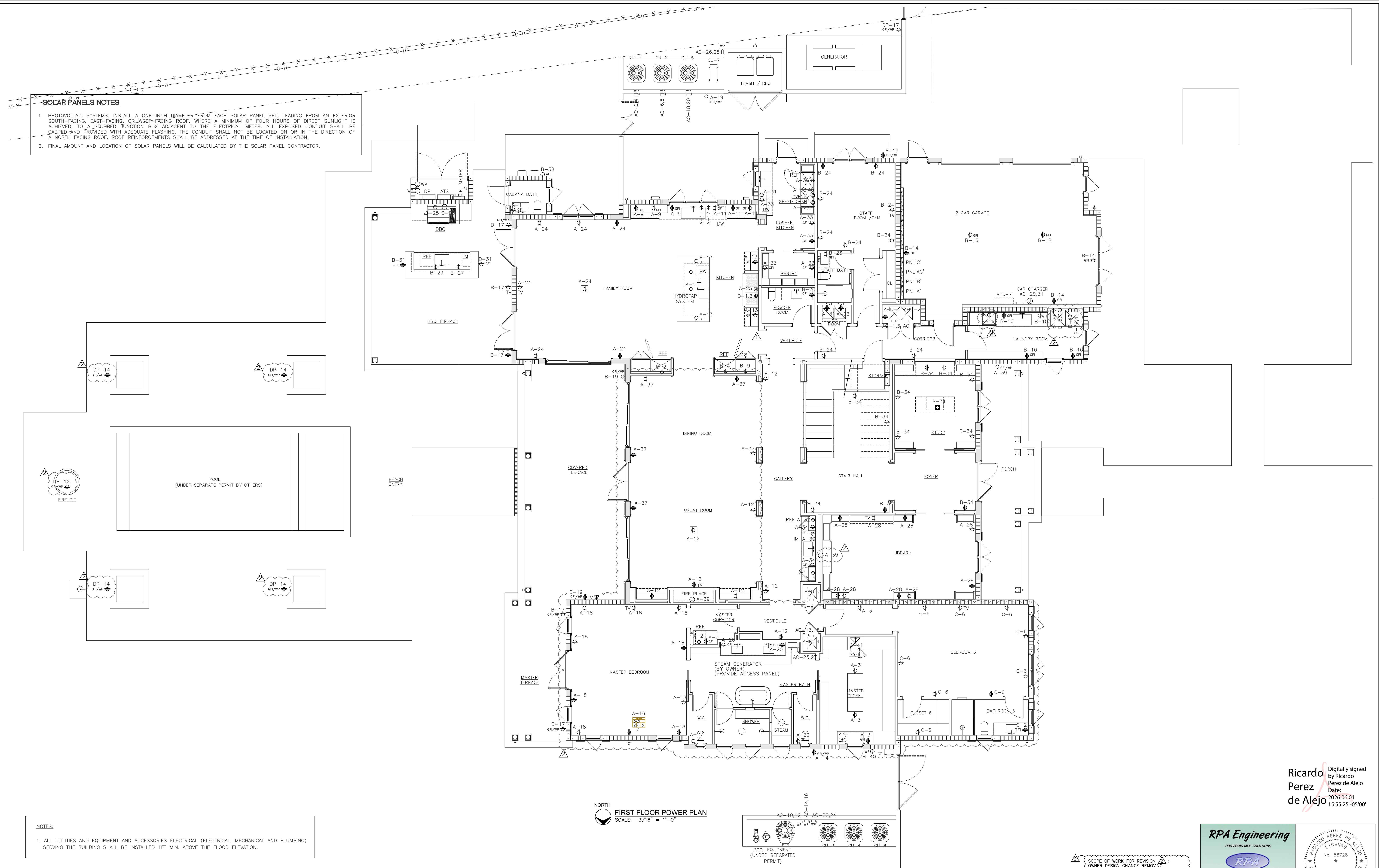
ISSUED	04.25.25
B.D.C.	08.25.25
O.C.	06.01.26

SHEET :

E1.1

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ANTIPOLO D. SOLA ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPY.

Copyright 2024 SV Design, Inc. All Rights Reserved



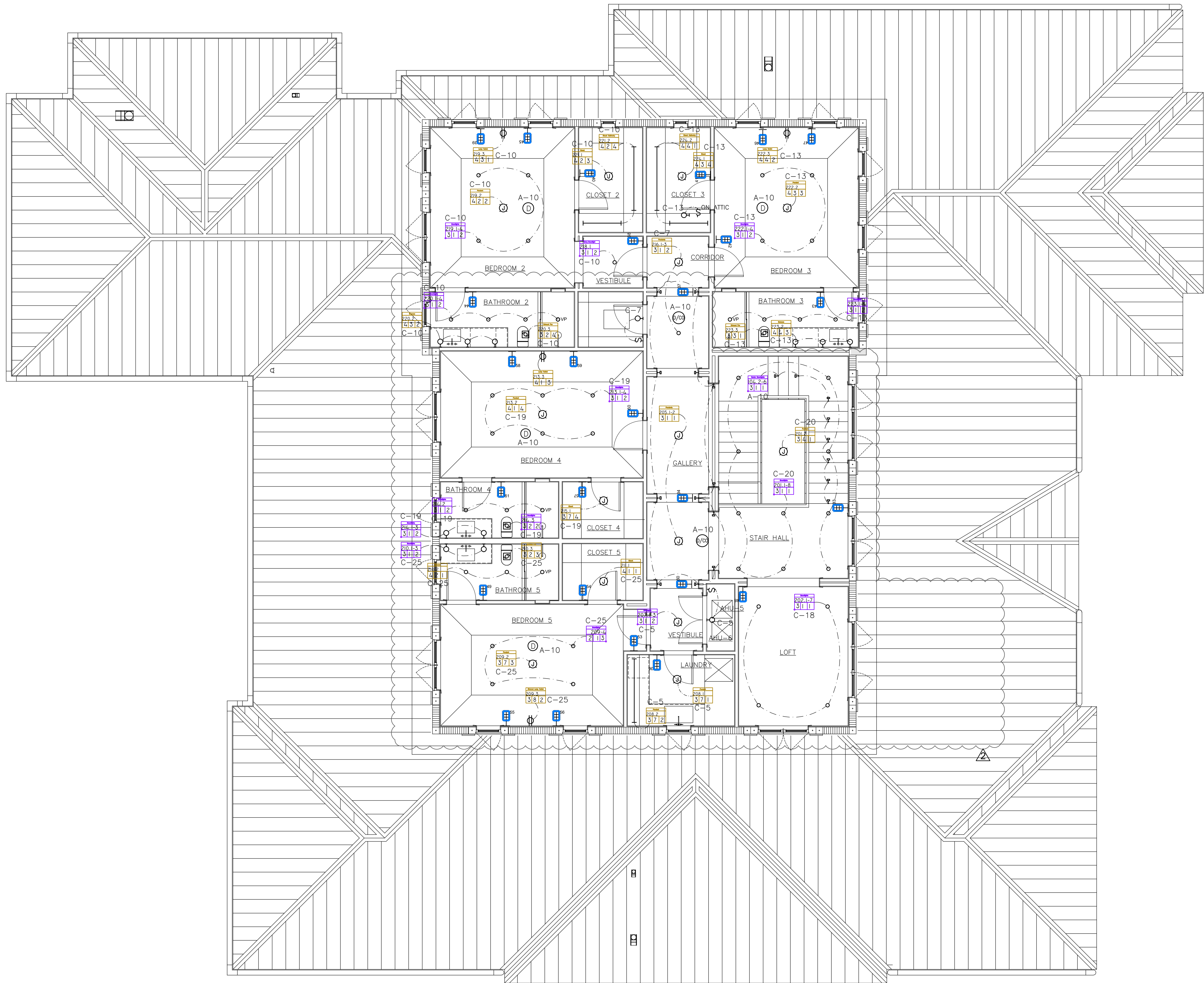
NOTES:

1. ALL UTILITIES AND EQUIPMENT AND ACCESSORIES ELECTRICAL (ELECTRICAL, MECHANICAL AND PLUMBING) SERVING THE BUILDING SHALL BE INSTALLED 1FT MIN. ABOVE THE FLOOD ELEVATION.

Ricardo Perez de Alejo

Digitally signed by Ricardo Perez de Alejo
Date: 2026.06.01 15:55:25 -05'00'

NOTE :	CLIENT :	PROJECT INFORMATION :	ARCHITECT :	DRAWING INFORMATION :	SHEET :						
THIS DRAWING IS PROPERTY OF SV DESIGN, INC. AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN CONSENT OF SV DESIGN, INC. THIS DRAWING IS TO BE USED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. THE SCALES ARE AS STATED. THE CONTRACTOR SHALL CAREFULLY REVIEW ALL DIMENSIONS AND CONDITIONS SHOWN AND IMMEDIATELY NOTIFY THE ARCHITECT AS TO ANY ERRORS, OMISSIONS, OR INCONSISTENCIES DISCOVERED. COPYRIGHT © SV DESIGN, INC.	ALBERT MILO 11901 SW 63RD AVE PINECREST, FL 33132	MILO RESIDENCE 11901 SW 63 RD AVE PINECREST, FL 33156	 SV DESIGN, INC. 1900 CORAL WAY #301, MIAMI, FL 33145 T. 786.356.3799 F. 305.856.7478 www.svdesigninc.com	<table><tr><td>ISSUED</td><td>04.25.25</td></tr><tr><td> O.C.</td><td>08.25.25</td></tr><tr><td> O.C.</td><td>06.01.26</td></tr></table> THIS FIRM HAS BEEN DIGITALLY SIGNED AND SEALED BY ANTONIO D. SOGA ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTIONS. COPIES © Copyright 2024 SV Design, Inc. All Rights Reserved	ISSUED	04.25.25	 O.C.	08.25.25	 O.C.	06.01.26	E1.3
ISSUED	04.25.25										
 O.C.	08.25.25										
 O.C.	06.01.26										



NORTH
SECOND FLOOR LIGHTING PLAN
SCALE: 3/16" = 1'-0"

Ricardo Perez de Alejo
Digitally signed by Ricardo Perez de Alejo
Date: 2026.06.01 15:55:45 -05'00'

SCOPE OF WORK FOR REVISION :
OWNER DESIGN CHANGE REMOVING
DOUBLE HEIGHT LIVING ROOM. ALL
ARCHITECTURAL SHEETS AFFECTED,
SOME MEP PAGES AND SOME STRUCTURAL.
SEE ADD REV 3 COLUMN FOR UPDATED
SHEET LIST.

RPA Engineering
PROVIDING MEP SOLUTIONS
RPA
7930 NW 197th St.
Miami, Florida 33015
Phone: 305 308 8857
Fax: 305 308 3847
email: rperez@rpa-engineering.com

RICARDO PEREZ DE ALEJO
LICENSE
No. 58728
STATE OF FLORIDA
PROFESSIONAL ENGINEER
RICARDO PEREZ, P.E. 58728

NOTE :

THIS DRAWING IS PROPERTY OF SV DESIGN, INC. AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN CONSENT OF SV DESIGN, INC. THIS DRAWING IS TO BE USED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. THE SCALES ARE AS STATED. THE CONTRACTOR SHALL CAREFULLY REVIEW ALL DIMENSIONS AND CONDITIONS SHOWN AND IMMEDIATELY NOTIFY THE ARCHITECT AS TO ANY ERRORS, OMISSIONS, OR INCONSISTENCIES DISCOVERED.
COPYRIGHT © SV DESIGN, INC.

CLIENT :

ALBERT MILO
11901 SW 63RD AVE
PINECREST, FL 33132

PROJECT INFORMATION :

MILO RESIDENCE
11901 SW 63 RD AVE
PINECREST, FL 33156

ARCHITECT :

SV DESIGN, INC.
1900 CORAL WAY #301, MIAMI, FL 33145
T. 786.356.3799 F. 305.856.7478 www.svdesigninc.com

DRAWING INFORMATION :

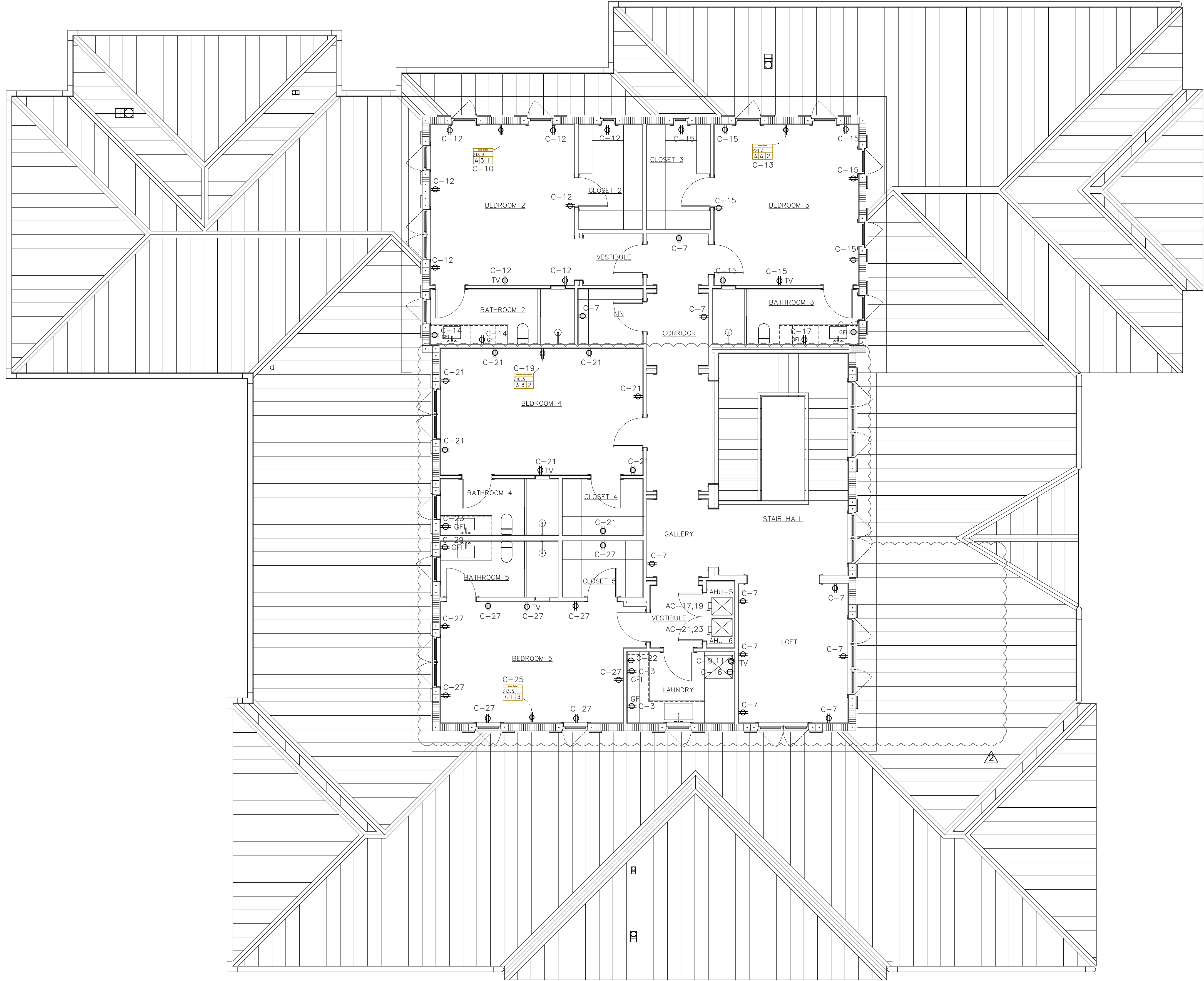
ISSUED	04.25.25
B.D.C., O.C.	04.25.25
O.C.	06.01.26

SHEET :

E1.4

Copyright 2024 SV Design, Inc. All Rights Reserved

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ANTONIO D. SOGA ON THE DATE ADJUNCT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT BE CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



NORTH
SECOND FLOOR POWER PLAN
SCALE: 3/16" = 1'-0"

Ricardo Perez de Alejo
Digitally signed by Ricardo Perez de Alejo
Date: 2026.06.01 15:56:02 -05'00'

SCOPE OF WORK FOR REVISION :
OWNER DESIGN CHANGE REMOVING
DOUBLE HEIGHT LIVING ROOM. ALL
ARCHITECTURAL SHEETS AFFECTED.
SOME MEP PAGES AND SOME STRUCTURAL
SEE A0.0 REV 3 COLUMN FOR UPDATED
SHEET LIST.

RPA Engineering
PROVIDING MEP SOLUTIONS
RPA
7930 NW 197th St.
Miami, Florida 33015
Phone: 305 308 8857
Fax: 305 308 3847
email: rperez@rpa-engineering.com

RICARDO PEREZ DE ALEJO
LICENSE
No. 58728
STATE OF FLORIDA
PROFESSIONAL ENGINEER
RICARDO PEREZ, P.E. 58728

NOTE :	CLIENT :	PROJECT INFORMATION :	ARCHITECT :	DRAWING INFORMATION :	SHEET :						
THIS DRAWING IS PROPERTY OF SV DESIGN, INC. AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN CONSENT OF SV DESIGN, INC. THIS DRAWING IS TO BE USED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. THE SCALES ARE AS STATED. THE CONTRACTOR SHALL CAREFULLY REVIEW ALL DIMENSIONS AND CONDITIONS SHOWN AND IMMEDIATELY NOTIFY THE ARCHITECT AS TO ANY ERRORS, OMISSIONS, OR INCONSISTENCIES DISCOVERED. COPYRIGHT © SV DESIGN, INC.	ALBERT MILO 11901 SW 63RD AVE PINECREST, FL 33132	MILO RESIDENCE 11901 SW 63 RD AVE PINECREST, FL 33156	 SV DESIGN, INC. 1900 CORAL WAY #301, MIAMI, FL 33145 T. 786.356.3799 F. 305.856.7478 www.svdesigninc.com	<table><tr><td>ISSUED</td><td>04.25.25</td></tr><tr><td>B.D.C.</td><td>08.25.25</td></tr><tr><td>O.C.</td><td>06.01.26</td></tr></table> © Copyright 2024 SV Design, Inc. All Rights Reserved	ISSUED	04.25.25	B.D.C.	08.25.25	O.C.	06.01.26	E1.5
ISSUED	04.25.25										
B.D.C.	08.25.25										
O.C.	06.01.26										

ELECTRICAL PANEL SCHEDULE "A"														
TYPE : AQ, G.E. MOUNTING : FLUSH LOCATION : GARAGE			10,000 A.I.C.			MAINS : M.C.B. BUS RATING : 200 AMP VOLTAGE : 120/240V-1PHASE-3WIRE-S/N								
DESCRIPTION	WIRE & COND. SIZE	LOAD (V.A.)	POLE / TRIP	CKT. No.	A	B	DESCRIPTION	WIRE & COND. SIZE	LOAD (V.A.)	POLE / TRIP	CKT. No.	A	B	
* CABANA BATH REC.	#12-1/2"	(1)	1	20	1									
* M CLOSET REC.	#12-1/2"	800	1	20	3									
*** HYDROTAP SYSTEM	#12-1/2"	1250	1	20	5									
MASTER BATH LTS	#12-1/2"	(1)	1	20	7									
* SMALL APP.	#12-1/2"	1500	1	20	9									
* SMALL APP.	#12-1/2"	1500	1	20	11									
* SMALL APP.	#12-1/2"	1500	1	20	13									
*** DISPOSAL	#12-1/2"	1200	1	20	15									
*** DISH WASHER	#12-1/2"	1200	1	20	17									
* EXTERIOR REC.	#12-1/2"	600	1	20	19									
* REFRIGERATOR	#12-1/2"	800	1	20	21									
* FREEZER	#12-1/2"	800	1	20	23									
* KITCHEN HOOD	#14-1/2"	200	1	25	25									
* TOILET REC.	#12-1/2"	1000	1	20	27									
* TOILET REC.	#12-1/2"	1000	1	20	29									
*** DISH WASHER	#12-1/2"	1200	1	20	31									
* SMALL APP.	#12-1/2"	1500	1	20	33									
* MASTER CLOSET LTS	#12-1/2"	(1)	1	20	35									
* DINING ROOM REC.	#12-1/2"	1500	1	20	37									
* FIRE PLACE	#14-1/2"	100	1	15	39									
* SAFE BOX	#14-1/2"	100	1	15	41									
* MICROWAVE	#12-1/2"	1200	1	20	43									
					45									
					47									
					49									
					51									
					53									
					54									
* AFCI TYPE BREAKER ** GFCI TYPE BREAKER *** AFCI & GFCI TYPE BREAKER														
LOAD CALCULATION PANEL "A" GENERAL LIGHTING 2725 S.F. AT 3 VA/S.F. = 8175 VA SMALL APP. = 7500 VA LAUNDRY REC. = 0 VA TOTAL = 15597 VA DEMAND FACTOR: FIRST 3000 VA AT 100% = 3000 VA REMAINDER AT 35% = 15597 - 3000 = 12597 * 0.35 = 4409 VA LIGHTING LOAD = 3000 + 4409 = 7409 VA OVEN LOAD AT 80% = 9760 VA APPLIANCES LOAD = 10400 VA MISCELLANEOUS LOAD = 8050 VA A/C LOAD AT 100% = 0 VA TOTAL DEMAND LOAD = 35619 VA TOTAL DEMAND AMPS = 148 AMPS PER PHASE														

(1) LIGHTING LOAD AT 3 VA PER SQUARE FEET

ELECTRICAL PANEL SCHEDULE "C"														
TYPE : AQ, G.E. MOUNTING : FLUSH LOCATION : AV ROOM			10,000 A.I.C.			MAINS : M.C.B. BUS RATING : 150 AMP VOLTAGE : 120/240V-1PHASE-3WIRE-S/N								
DESCRIPTION	WIRE & COND. SIZE	LOAD (V.A.)	POLE / TRIP	CKT. No.	A	B	DESCRIPTION	WIRE & COND. SIZE	LOAD (V.A.)	POLE / TRIP	CKT. No.	A	B	
U/C REFRIGERATOR	#12-1/2"	800	1	20	1									
LAUNDRY REC.	#12-1/2"	1500	1	20	3									
LAUNDRY LTS.	#12-1/2"	(1)	1	20	5									
LOFT	#12-1/2"	(1)	1	20	7									
** DRYER	#10-1/2"	5000	2	30	9									
* BEDROOM #3 LTS	#14-1/2"	(1)	1	15	11									
* BEDROOM #3 REC	#14-1/2"	(1)	1	15	13									
* BEDROOM #3 REC	#12-1/2"	(1)	1	20	17									
* BEDROOM #4 LTS	#14-1/2"	(1)	1	15	19									
* BEDROOM #4 REC	#14-1/2"	(1)	1	15	21									
* BEDROOM #4 REC	#12-1/2"	(1)	1	20	23									
* BEDROOM #5 LTS	#14-1/2"	(1)	1	15	25									
* BEDROOM #5 REC	#14-1/2"	(1)	1	15	27									
* BEDROOM #5 REC	#12-1/2"	(1)	1	20	29									
* AV. REC.	#12-1/2"	800	1	20	31									
* AV. REC.	#12-1/2"	800	1	20	33									
					35									
					37									
					39									
					41									
					42									
* AFCI TYPE BREAKER ** GFCI TYPE BREAKER *** AFCI & GFCI TYPE BREAKER														
LOAD CALCULATION PANEL "C" GENERAL LIGHTING 3029 S.F. AT 3 VA/S.F. = 9057 VA SMALL APP. = 0 VA LAUNDRY REC. = 3000 VA TOTAL = 12087 VA DEMAND FACTOR: FIRST 3000 VA AT 100% = 3000 VA REMAINDER AT 35% = 12087 - 3000 = 9087 * 0.35 = 3181 VA LIGHTING LOAD = 3000 + 3181 = 6181 VA DRYER = 5000 VA APPLIANCES LOAD = 2400 VA MISCELLANEOUS LOAD = 2800 VA TOTAL DEMAND LOAD = 16381 VA TOTAL DEMAND AMPS = 68 AMPS PER PHASE														

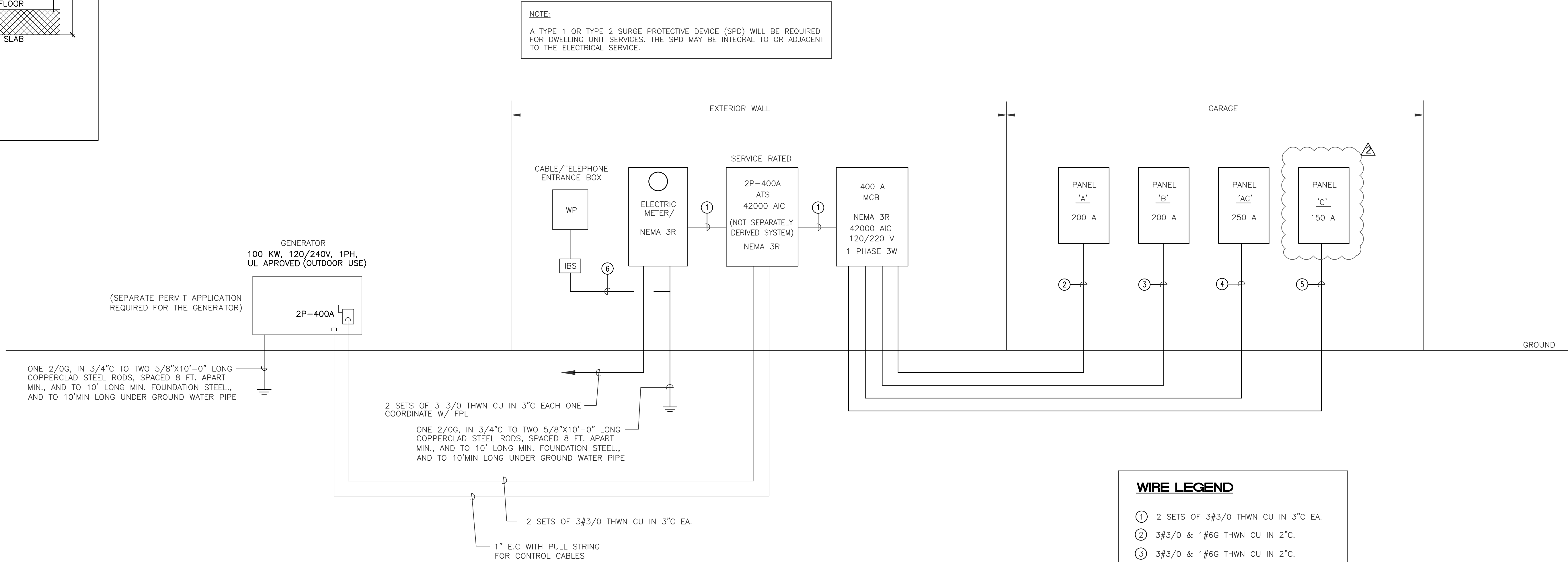
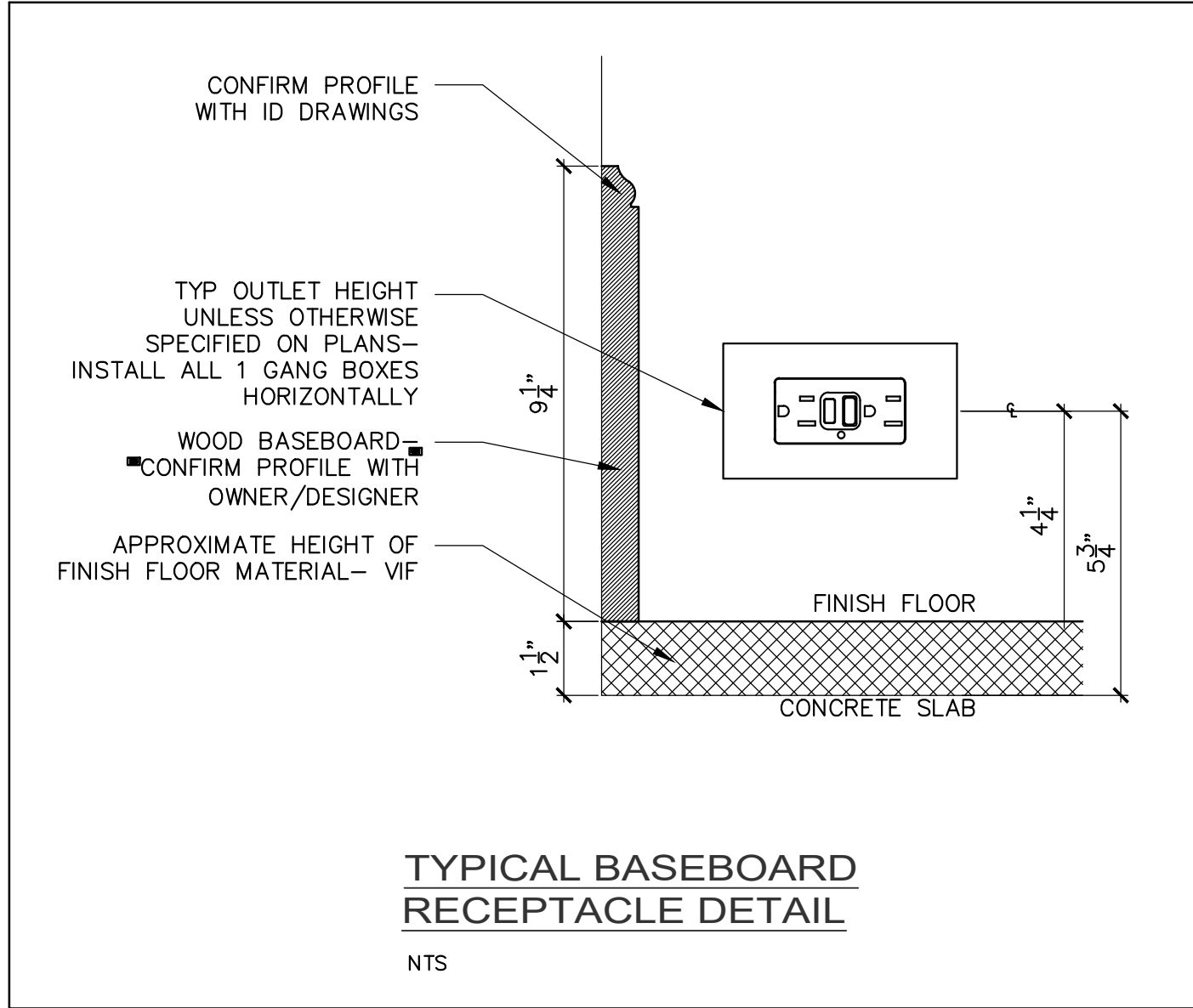
(1) LIGHTING LOAD AT 3 VA PER SQUARE FEET

ELECTRICAL PANEL SCHEDULE "B"														
TYPE : AQ, G.E. MOUNTING : FLUSH LOCATION : GARAGE			10,000 A.I.C.			MAINS : M.C.B. BUS RATING : 200 AMP VOLTAGE : 120/240V-1PHASE-3WIRE-S/N								
DESCRIPTION	WIRE & COND. SIZE	LOAD (V.A.)	POLE / TRIP	CKT. No.	A	B	DESCRIPTION	WIRE & COND. SIZE	LOAD (V.A.)	POLE / TRIP	CKT. No.	A	B	
DUAL FUEL RANGE	#6-3/4"	6500	2	60	1									
					3									
					5									
*** DRYER	#10-1/2"	5000	2	30	7									
* MICROWAVE	#12-1/2"	1200	1	20	9									
* LAUNDRY LTS.	#12-1/2"	(1)	1	20	11									
BBO TERRACE LTS	#12-1/2"	700	1	20	13									
COV. TERRACE LTS	#12-1/2"	700	1	20	15									
BBO TERRACE REC.	#12-1/2"	800	1	20	17									
COV. TERRACE REC.	#12-1/2"	800	1	20	19									
EXTERIOR LTS.	#12-1/2"	600	1	20	21									
FRONT PORCH	#12-1/2"	500	1	20	23									
BBO HOOD/PILOT	#14-1/2"	200	1	15	25									
TERRACE ICE MAKER	#12-1/2"	800	1	20	27									
** TERRACE REF.	#12-1/2"	800	1	20	29									
COUNTER REC.	#12-1/2"	1200	1	20	31									
*** WASHER	#12-1/2"	1500	1	20	33									
*** FOYER LTS.	#12-1/2"	(1)	1	20	35									
*** READING ROOM	#12-1/2"	(1)	1	20	37									
** DRYER	#10-1/2"	5000	2	30	39									
					41									
*** WASHER	#12-1/2"	1500	1	20	43									
					45									
					47									
					49									
					51									
					53									
					54									
* AFCI TYPE BREAKER ** GFCI TYPE BREAKER *** AFCI & GFCI TYPE BREAKER														
LOAD CALCULATION PANEL "B" GENERAL LIGHTING 2298 S.F. AT 3 VA/S.F. = 6894 VA SMALL APP. = 0 VA LAUNDRY REC. = 3000 VA TOTAL = 9894 VA DEMAND FACTOR: FIRST 3000 VA AT 100% = 3000 VA REMAINDER AT 35% = 9894 - 3000 = 6894 * 0.35 = 2413 VA LIGHTING LOAD = 3000 + 2413 = 5413 VA DUAL FUEL RANGE = 6500 VA DRYER = 5000 VA APPLIANCES LOAD = 4400 VA MISCELLANEOUS LOAD = 7000 VA A/C LOAD AT 100% = 0 VA TOTAL DEMAND LOAD = 28313 VA TOTAL DEMAND AMPS = 118 AMPS PER PHASE														

(1) LIGHTING LOAD AT 3 VA PER SQUARE FEET

ELECTRICAL PANEL SCHEDULE "AC"														
TYPE : AQ, G.E. MOUNTING : FLUSH LOCATION : GARAGE			10,000 A.I.C.			MAINS : M.C.B. BUS RATING : 250 A VOLTAGE : 120/240V-1PHASE-3WIRE-S/N								
DESCRIPTION	WIRE & COND. SIZE	LOAD (V.A.)	POLE / TRIP	CKT. No.	A	B	DESCRIPTION	WIRE & COND. SIZE	LOAD (V.A.)	POLE / TRIP	CKT. No.	A	B	
AHU-1	#8-3/4"	5712	2	40	1									
					3									
AHU-2	#10-1/2"	5712	2	30	5									
					7									
AHU-3	#8-3/4"	5712	2	30	9									
					11									
AHU-4	#8-3/4"	5472	2	40	13									
					15									
AHU-5	#8-3/4"	5712	2	50	17									
					19									
AHU-6	#8-3/4"	5712	2	40	21									
					23									
STEAM GENERATOR	#6-3/4"	9000	2	60	25									
					27									
CAR CHARGER	#6-3/4"	11500	2	60	31									
					33									
					35									
					37									
					39									
					41									
* AFCI TYPE BREAKER ** GFCI TYPE BREAKER *** AFCI & GFCI TYPE BREAKER														
LOAD CALCULATION PANEL "AC" GENERAL LOAD = 20500 VA A/C LOAD AT 100% = 26304 VA TOTAL DEMANDED LOAD = 46804 VA TOTAL DEMAND AMPS = 195 AMPS PER PHASE														

ELECTRICAL PANEL SCHEDULE "DP"												
TYPE : AQ, G.E. (OR EQUIVALENT)			42,000 A.I.C.			MAINS : M.C.B.						
MOUNTING : FLUSH						BUS RATING : 400 AMP						
LOCATION : ELECTRICAL SERVICE						VOLTAGE : 120/240V-1PHASE-3WIRE						
DESCRIPTION	WIRE & COND. SIZE	LOAD (V.A.)	POLE TRIP	CKT. No.	A	B	CKT. No.	POLE TRIP	LOAD (V.A.)	WIRE & COND. SIZE	DESCRIPTION	
PANEL A	#3#1 & 1#66" THWN CU IN 1-1/2"	28365	2	1	+	+	2	2	16707	#3#1 & 1#66" THWN CU IN 1-1/2"	PANEL C	
				3			4					
PANEL B	#3#1 & 1#66" THWN CU IN 1-1/2"	28349	2	5	+	+	6	2	38972	#3#250 & 1#40" THWN CU IN 2-1/2"	PANEL AC	
				4			5					
GATE MOTOR	#12-1/2"	7	1	20	+	+	8	2	800	#12-1/2"	FENCE LTS-	
FENCE LTS.	#12-1/2"	1500	1	20			11					12
LANDSCAPE LTS.	#14-1/2"	800	1	15			13	14	20	800	#12-1/2"	EXTERIOR REC
LANDSCAPE LTS.	#14-1/2"	800	1	15			15	16	20			
GENERATOR REC.	#12-1/2"	600	1	20			17	18				
				19			20					
				21			22					
				23			24					
<u>SUMMARY LOAD CALCULATIONS:</u>												
PANEL "A" GENERAL LOAD = 39325 VA												
PANEL "B" GENERAL LOAD = 32794 VA												
PANEL "C" GENERAL LOAD = 21457 VA												
PANEL "AC" GENERAL LOAD = 20500 VA												
FUTURE POOL PANEL "P" GENERAL LOAD = 9000 VA												
GATE MOTORS LOAD = 750 VA												
FENCE LTS. LOAD = 2300 VA												
LANDSCAPE LTS. LOAD = 1600 VA												
FIRE PIT LOAD = 100 VA												
TOTAL GENERAL LOAD = 127826 VA												
FIRST 10000 VA AT 100% = 10000 VA												
REMAINDER AT 40% = 47130 VA												
COOLING LOAD AT 100% = 26304 VA												
TOTAL DEMAND LOAD = 83434 VA												
TOTAL DEMAND AMPS = 348 AMPS PER PHASE												



WIRE LEGEND

- ① 2 SETS OF 3#3/0 THWN CU IN 3°C EA.
- ② 3#3/0 & 1#6G THWN CU IN 2°C.
- ③ 3#3/0 & 1#6G THWN CU IN 2°C.
- ④ 3 #250 MCM & 1#4G THWN CU IN 2°C.
- ⑤ 3 #1/0 & 1#6G THWN CU IN 1-1/2°C.
- ⑥ 1#6G THWN CU.

ELECTRICAL RISER DIAGRAM

SCALE: N.T.S.



April 30, 2025

RICARDO PEREZ
19570 SW 84TH AVE
MIAMI, FL 33015

Re: Available Fault Current for 11901 SW 63RD AVE

Dear RICARDO PEREZ:

Thank you for contacting FPL about the available fault current at 11901 SW 63RD AVE. Based on the plans you have provided dated April 25 2025, the maximum available fault current at the transformer secondary terminals is estimated to be 35750 symmetrical amperes at 120/240 volts. The protective device on the line side of the transformer currently in place or to be installed and serving your property located at the subject location is a 25 amp type Bayonet fuse. The primary service voltage is 7.6KV L-G. This calculated symmetrical fault current is not intended for use as the basis for motor starting calculations and does not include:

- Consideration for any motor contribution or
- Fault current asymmetry.

The FPL equipment currently serving or planned to serve your facility may change over time as a result of any number of factors, including but not limited to transformer replacements due to load growth, electrical grid changes or emergencies. As a result, although we are providing you with this information for the sole purpose of assisting you in the completion of your study, you and your client should not design, install or operate your system in reliance upon any expectation that the specific size and type of equipment currently in place will remain so. If and when the size and type of the equipment changes, our employees are not always in a position to immediately notify customers.

As the construction project progresses, any questions or information you may need can be communicated through me.

Sincerely,

Maria Castillo Chavez
MARIA CASTILLO CHAVEZ
Distribution Engineer

**1 PHASE SHORT CIRCUIT CALCULATION
LINE TO LINE AT PANEL 'ATS'**

SHORT CIRCUIT CURRENT AT THE ENTRANCE = I_{sc1}
 $I_{sc1} = 35750$ AMPS (AS PER FPL LETTER)

$$f = \frac{2 \times L \times I_{sc1}}{\# \times C \times E_{L-L}}$$
$$f = \frac{2 \times L \times 180 \times 35750}{2 \times 13923 \times 240} = 1.926$$

$$M = \frac{1}{1+f}$$
$$M = \frac{1}{1 + 1.926} = 0.342$$

$I_{sc2} = I_{sc1} \times M$
 $I_{sc2} = 35750 \times 0.342$
 $I_{sc2} = 12219$ AMPS AT THE DISTANCE OF 180 FEET

WHERE:

L = 180 (DISTANCE OF CONDUCTOR)
 $I_{sc1} = 35750$ (FAULT CURRENT AT THE ENTRANCE)
= 2 (CONDUCTOR PER PHASE)
C = 13923 (C VALUE FOR 3/0, 600V, COPPER,
SINGLE COND. IN PVC RACEWAYS)
 $E_{L-L} = 240$ V (1 PHASE VOLTAGE L-L)
 I_{sc2} = FAULT CURRENT AT THE CALCULATED DISTANCE

**1 PHASE SHORT CIRCUIT CALCULATION
LINE TO LINE AT PANEL 'A'**

SHORT CIRCUIT CURRENT AT THE ENTRANCE = I_{sc2}
 $I_{sc2} = 12219$ AMPS (AS PER FPL LETTER)

$$f = \frac{2 \times L \times I_{sc2}}{\# \times C \times E_{L-L}}$$
$$f = \frac{2 \times 80 \times 12219}{1 \times 13923 \times 240} = 0.585$$

$$M = \frac{1}{1+f}$$
$$M = \frac{1}{1 + 0.585} = 0.631$$

$I_{sc3} = I_{sc2} \times M$
 $I_{sc3} = 12219 \times 0.631$
 $I_{sc3} = 7709$ AMPS AT THE DISTANCE OF 60 FEET

WHERE:

L = 80 (DISTANCE OF CONDUCTOR)
 $I_{sc2} = 12219$ (FAULT CURRENT AT THE ENTRANCE)
= 1 (CONDUCTOR PER PHASE)
C = 13923 (C VALUE FOR 3/0, 600V, COPPER,
SINGLE COND. IN PVC RACEWAYS)
 $E_{L-L} = 240$ V (1 PHASE VOLTAGE L-L)
 I_{sc3} = FAULT CURRENT AT THE CALCULATED DISTANCE

NOTE :

THIS DRAWING IS PROPERTY OF SV DESIGN, INC. AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN CONSENT OF SV DESIGN, INC. THIS DRAWING IS TO BE USED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. THE SCALES ARE AS STATED. THE CONTRACTOR SHALL CAREFULLY REVIEW ALL DIMENSIONS AND CONDITIONS SHOWN AND IMMEDIATELY NOTIFY THE ARCHITECT AS TO ANY ERRORS, OMISSIONS, OR INCONSISTENCIES DISCOVERED.
COPYRIGHT © SV DESIGN, INC.

CLIENT :

ALBERT MILO
11901 SW 63RD AVE
PINECREST, FL 33132

PROJECT INFORMATION :

MILO RESIDENCE
11901 SW 63 RD AVE
PINECREST, FL 33156

ARCHITECT :



SV DESIGN, INC.
1900 CORAL WAY #301, MIAMI, FL 33145
T. 786.356.3799 F. 305.856.7478 www.svdesigninc.com

DRAWING INFORMATION :

ISSUED	04.25.25
B.D.C.	08.25.25
O.C.	06.01.26

© Copyright 2024 SV Design, Inc. All Rights Reserved

SHEET :

E2.2

Ricardo Perez de Alejo
Digitally signed by
Ricardo Perez de Alejo
Date: 2026.06.01
15:57:16 -05'00'

