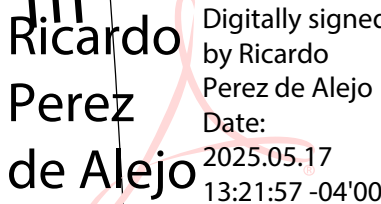




JOB TITLE:
NEW SINGLE FAMILY
RESIDENCE
12700 ROLLING ROAD DR.
PINECREST, FL 33156

CONSULTANT:



FELIX DAYAN GUERRA
16267 SW 97th ST.
MIAMI, FL. 33196
(561) 229-2618 PE 93

RICARDO PEREZ

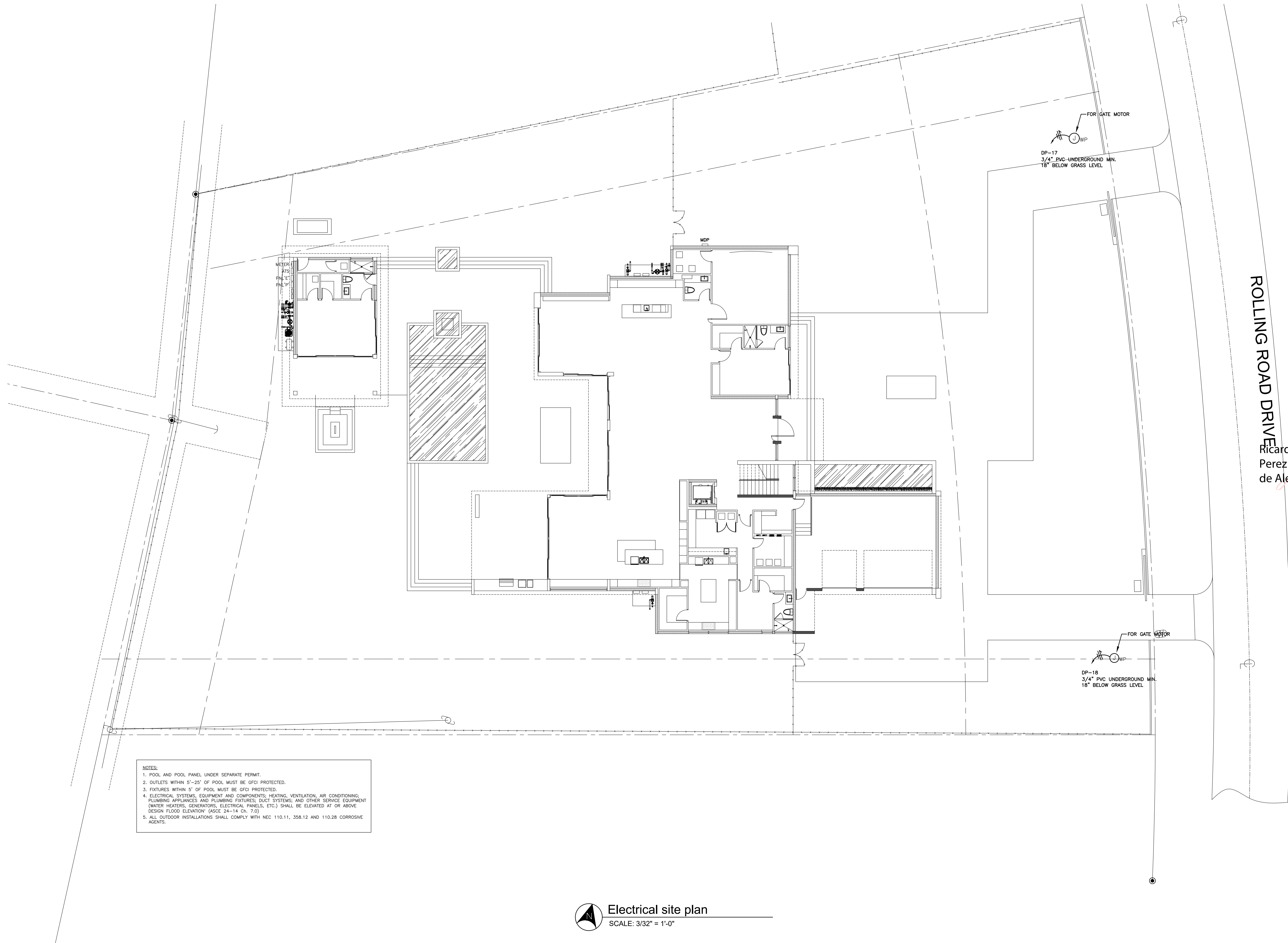
PE 58728

[illegible]

12700

E-1.0

ORIGINAL ISSUE DATE: 12-26-2024
LOT DATE: 2025-05-09



SCALE: 3/32" = 1'-0"



A circular professional engineer seal for the State of Florida. The outer ring contains the text "RICARDO PEREZ DE ALEJO" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by three stars. The inner circle contains the text "LICENSE" at the top, "No. 58728" in the center, and "STATE OF FLORIDA" at the bottom, also separated by three stars.

REV#1 05-09-2025
B.D.C.

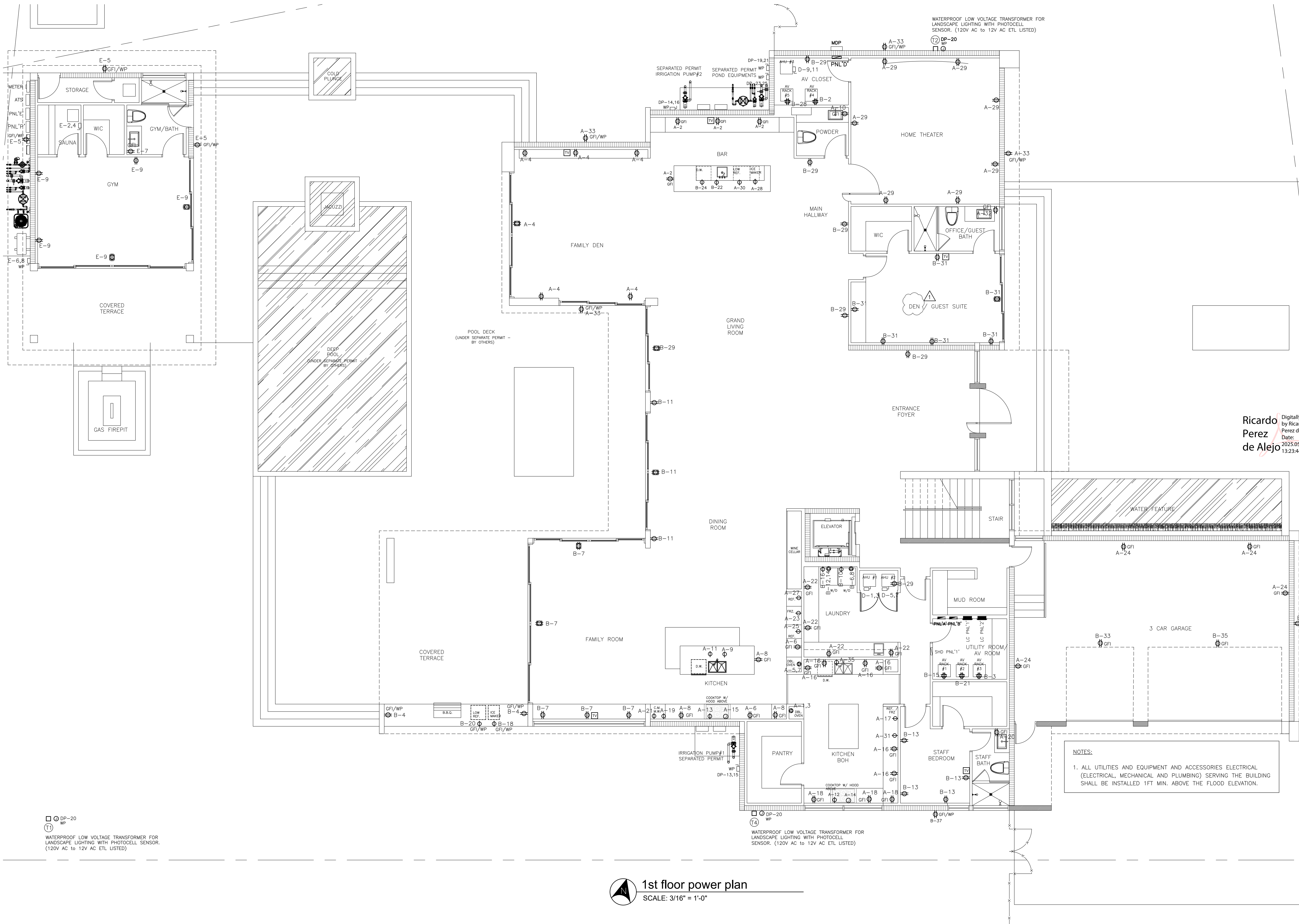
NOTES:

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

SHEET:

E-1.1

ORIGINAL ISSUE DATE:	12-26-2024
PLOT DATE:	2025-05-16



JD MIAMI

GENERAL CONTRACTOR

JD ENGINEERING & CONSTRUCTION, CORP.

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JOB TITLE:
NEW SINGLE FAMILY
RESIDENCE
12700 ROLLING ROAD DR
PINECREST, FL 33156

SHEET TITLE:

CONSULTANT:

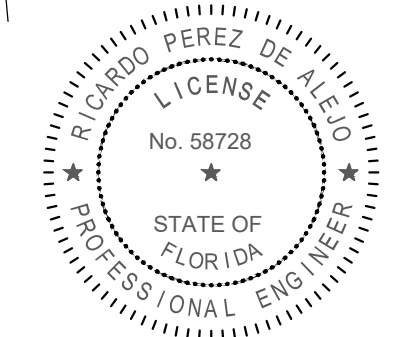
A2

AI2 DESIGN CORP

(305) 520-9242

Ricardo
Perez
de Alejo

Digitally signed
by Ricardo
Perez de Alejo
Date:
2025.05.17
13:23:44 -04'00'



RICARDO PEREZ, P.E. 58728

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REVISIONS:

REV#1 05-09-2025
B.D.C.

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.

JOB:

12700

SHEET:

E-1.2

ORIGINAL ISSUE DATE: 12-26-2024
PLOT DATE: 2025-05-16

1st floor power plan
SCALE: 3/16" = 1'-0"

 2nd floor lighting plan
SCALE: 3/16" = 1'-0"

This is a detailed architectural floor plan of a residential unit, likely a townhouse or duplex. The plan shows a complex layout with multiple bedrooms, bathrooms, a master suite with wardrobes, a family seating area, and a garage roof. The plan includes numerous electrical symbols, room labels, and structural elements like walls, doors, and windows.

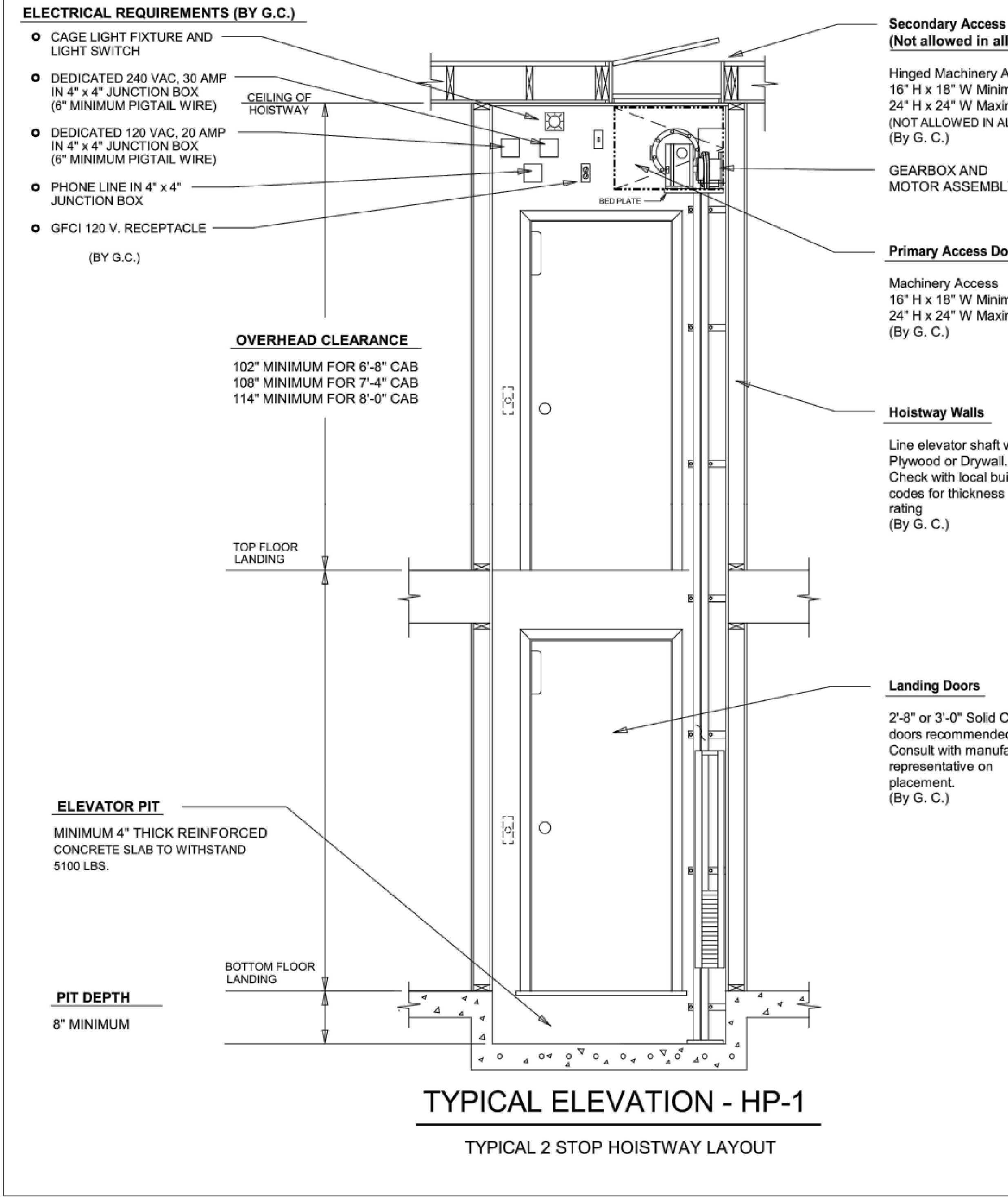
Rooms and Features:

- Bedrooms:** BEDROOM #2, BEDROOM #3, BEDROOM #4, BEDROOM #5, BEDROOM #6.
- Bathrooms:** BATH #2, BATH #3, BATH #4, BATH #5, BATH #6, MASTER BATHROOM.
- Master Suite:** MASTER SUITE, HIS MASTER WARDROBE, HER MASTER WARDROBE.
- Living Areas:** FAMILY SEATING, LAUNDRY, MAKE UP.
- Other Areas:** BALCONY, STAIR, ELEVATOR, WIC (Wardrobe).

Electrical Symbols and Labels:

- Room Labels:** C-1, C-3, C-7, C-11, C-15, C-16, C-17, C-18, C-19, C-21, C-22, C-23, C-24, C-25, C-26, C-27, C-28, C-29, C-30, C-31, C-32, C-33, C-34, C-35, C-36, C-37, C-38, C-39, C-40, C-41, C-42, C-43, C-44, C-45, C-46, C-47, C-48, C-49, C-50, C-51, C-52, C-53, C-54, C-55, C-56, C-57, C-58, C-59, C-60, C-61, C-62, C-63, C-64, C-65, C-66, C-67, C-68, C-69, C-70, C-71, C-72, C-73, C-74, C-75, C-76, C-77, C-78, C-79, C-80, C-81, C-82, C-83, C-84, C-85, C-86, C-87, C-88, C-89, C-90, C-91, C-92, C-93, C-94, C-95, C-96, C-97, C-98, C-99, C-100.
- Electrical Symbols:** GFI/WP, GFI, WP, CU-1, CU-2, CU-3, CU-4, CU-5, CU-6, CU-7, CU-8, CU-9, CU-10, CU-11, CU-12, CU-13, CU-14, CU-15, CU-16, CU-17, CU-18, CU-19, CU-20, CU-21, CU-22, CU-23, CU-24, CU-25, CU-26, CU-27, CU-28, CU-29, CU-30, CU-31, CU-32, CU-33, CU-34, CU-35, CU-36, CU-37, CU-38, CU-39, CU-40, CU-41, CU-42, CU-43, CU-44, CU-45, CU-46, CU-47, CU-48, CU-49, CU-50, CU-51, CU-52, CU-53, CU-54, CU-55, CU-56, CU-57, CU-58, CU-59, CU-60, CU-61, CU-62, CU-63, CU-64, CU-65, CU-66, CU-67, CU-68, CU-69, CU-70, CU-71, CU-72, CU-73, CU-74, CU-75, CU-76, CU-77, CU-78, CU-79, CU-80, CU-81, CU-82, CU-83, CU-84, CU-85, CU-86, CU-87, CU-88, CU-89, CU-90, CU-91, CU-92, CU-93, CU-94, CU-95, CU-96, CU-97, CU-98, CU-99, CU-100.

HOR 01 - HP1 TRACTION HOISTWAY ELEVATION (TYP.) LUXURY LIFT TRACTION



- ELECTRICAL NOTES**
1. ALL ELECTRICAL WORK SHALL COMPLY WITH THE CODES IN EFFECT: NATIONAL ELECTRICAL CODE 2020, FLORIDA BUILDING CODE RESIDENTIAL 2023, 8TH EDITION, AND ALL OTHER APPLICABLE CODES AND ORDINANCES IN EFFECT AT THIS LOCATION.
 2. ALL MATERIAL SHALL BE NEW AND SHALL BEAR UNDERWRITER'S AND UNION LABELS, WHERE APPLICABLE.
 3. DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE ELECTRICAL DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL EQUIPMENT AND CONFIRM WITH OWNER'S REPRESENTATIVE AND/OR ARCHITECT.
 4. ALL CABLE MUST BE ROMEX TYPE CABLE ACCORDING WITH THE DIAMETER SPECIFIED IN THE DRAWINGS. ALL ROMEX CABLE SHALL COMPLY WITH ALL NATIONAL ELECTRICAL CODE SPECIFICATIONS.
 5. RACEWAYS INSTALLED UNDERGROUND, IN CONCRETE SLABS, AND/OR LARGER THAN 2 INCHES IN DIAMETER SHALL BE GALVANIZED RIGID STEEL. PVC PIPE SCHEDULE 40 IS ACCEPTABLE FOR UNDERGROUND INSTALLATION ONLY IF APPROVED BY LOCAL AUTHORITIES. RACEWAY 2 INCHES AND SMALLER IN DIAMETER SHALL BE I.M.C. IF EXPOSED TO WEATHER, E.M.T. ELSEWHERE. FLEXIBLE CONDUIT USED WHERE INDICATED SHALL BE METAL FOR INDOOR LOCATIONS, LIQUID-TIGHT FOR OUTDOOR LOCATIONS.
 6. RACEWAYS INSTALLED IN OR THRU ANY CONCRETE SLABS SHALL BE SPACED A MINIMUM OF 3 DIA. OF THE LARGEST RACEWAY. METALLIC RACEWAYS INSTALLED UNDERGROUND OR UNDER SLABS SHALL BE COATED WITH TWO COATS OF AN ASPHALTIC PAINT. USE STEEL COMPRESSION TYPE FITTING.
 7. OUTLETS SHALL BE FLUSHED WITH FINISHED SURFACES. TWO OR MORE LIGHT SWITCHES IN SAME WALL SHALL BE INSTALLED IN GANG-TYPE BOXES.
 8. JUNCTION BOXES SHALL BE GALVANIZED STEEL WITH SCREW OR HINGED COVERS FOR INDOOR LOCATIONS AND WEATHER-PROOF WHERE EXPOSED TO WEATHER. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS. CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
 9. ELECTRICAL CONTRACTOR SHALL PERFORM ALL NECESSARY WORK FOR A COMPLETE ELECTRICAL INSTALLATION AND SHALL PROVIDE ALL NECESSARY INSTRUMENTS AND SPECIAL APPARATUS TO CONDUCT ANY TEST THAT MAY BE REQUIRED TO INSURE THE SYSTEM IS FREE OF ALL IMPROPER GROUNDS AND SHORT CIRCUITS, AND THAT ALL FEEDERS ARE PROPERLY BALANCED.
 10. ALL GROUND CONNECTIONS TO BE DONE AS PER NATIONAL ELECTRICAL CODE 2020.
 11. LOAD DATA IS BASED ON INFORMATION GIVEN TO THE ENGINEER AT THE TIME OF DESIGN. VERIFY ALL EQUIPMENT AND PANEL SIZES BEFORE ORDERING.
 12. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
 13. CORRECTIONS OF ANY DEFECTS SHALL BE COMPLETED WITHOUT CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED.
 14. CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTING; AND ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
 15. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE OF DEFECT FOR A PERIOD NOT LESS THAN ONE YEAR FROM THE DATE OF ACCEPTANCE.
 16. CONTRACTOR'S WORK PRACTICES AND CONDITIONS MUST CONFORM WITH THE LATEST OCCUPATIONAL SAFETY AND HEALTH ACT.
 17. THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING HIS BID IN ORDER THAT HE MAY BECOME AWARE OF EXISTING CONDITIONS. NO ALLOWANCES WILL BE MADE FOR ANY EXISTING CONDITIONS OF WHICH THIS CONTRACTOR WAS NOT AWARE.
 18. THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF LOCAL POWER, TELEPHONE AND CABLE T.V. UTILITIES.
 19. FURNISH AND INSTALL ALL LIGHTING FIXTURES WITH LAMPS. TYPES SHALL BE AS SELECTED BY THE ARCHITECT, THE OWNER, AND/OR THE INTERIOR DESIGNER.
 20. WIRING DEVICES SHALL BE APPROVED RESIDENTIAL GRADE. VERIFY LOCATION WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. TYPES SHALL BE AS SELECTED BY THE ARCHITECT, THE OWNER, AND/OR THE INTERIOR DESIGNER.
 21. CONTRACTOR SHALL DO HIS OWN CUTTING OF FLOORS AND WALLS AND GENERAL CONTRACTOR SHALL DO ALL PATCHING. OBTAIN APPROVAL BEFORE DOING ANY CUTTING. REPAIR ANY DAMAGE DONE TO OTHER'S EQUIPMENT OR MATERIAL.
 22. CONTRACTOR SHALL COORDINATE WITH THE OWNER THE INSTALLATION OF ANY ADDITIONAL SYSTEM TO BE PROVIDED BY HIMSELF OR BY OTHERS, SUCH AS ALARM SYSTEM, INTERCOM SYSTEM, ETC.
 23. PRIOR TO INSTALLATION OF ROUGH ELECTRIC WIRING, CHECK NAMEPLATE DATA OF A/C EQUIPMENT, KITCHEN EQUIPMENT AND OTHER EQUIPMENT TO OBTAIN CORRECT WIRE SIZES AND OVERCURRENT DEVICE SIZES.
 24. ALL CIRCUITS SHALL BE CLEARLY IDENTIFIED AND SHOWN ON PANEL DIRECTORIES. DO NOT CHANGE CIRCUIT ARRANGEMENT SHOWN ON THESE DRAWINGS.
 25. CIRCUITS ON THE PLANS ARE TO DETERMINE LOAD DATA AND PANEL SIZE. THE CONTRACTOR SHALL PROVIDE CIRCUITS AND ROUTING OF CONDUITS TO SUIT JOB CONDITIONS.
 26. ALL RECEPTACLES SPECIFIED IN NEC 2020, 210.52 SHALL BE TAMPER RESISTANT.
 27. ALL 120-VOLT, SINGLE-PHASE, 15- AND 20-AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS OR DEVICES INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS OR AREAS SHALL BE AFCI PROTECTED. 2017 NEC, SECTION 210.12(D).
 28. ALL EQUIPMENT DISCONNECT MEANS SHALL COMPLY WITH NEC 2020.
 29. ALL ELECTRICAL EQUIPMENTS SHALL BE ABOVE FLOOD LEVEL AS FEMA AND CMB REGULATIONS.
 30. ALL LUMINARIES INSTALLED IN WET LOCATIONS SHALL BE MARKED, "SUITABLE FOR WET LOCATIONS." "ALL LUMINARIES INSTALLED IN DAMP LOCATIONS SHALL BE MARKED "SUITABLE FOR WET LOCATIONS" OR "SUITABLE FOR DAMP LOCATIONS."
 31. SPACE ABOUT ELECTRICAL EQUIPMENT SHALL BE IN COMPLIANCE WITH NEC 2020 ART 110.26.
 32. STAIR SHALL BE ILLUMINATED AT A MINIMUM OF 1 FOOT CANDLE AT FLOOR LEVEL.
 33. AT LEAST 90% OF THE LAMPS SHALL HAVE AN EFFICACY OF AT LEAST 45 LUMENS/W OR NOT LESS THAN 65 LUMENS/W. FBC RE R404.
 34. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED ABOVE BASE FLOOD ELEVATION.
 35. ALL OUTDOOR INSTALLATIONS SHALL COMPLY WITH NEC 2020 SART 110.11, 358.12 AND 110.28 CORROSIVE AGENTS.
 36. RECESSED LUMINARIES INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL BE SEALED TO LIMIT AIR LEAKAGE BETWEEN CONDITIONED SPACES. ALL RECESSED LUMINARIES SHALL BE IC-RATED AND LABELED AS MEETING ASTM E 283 (AIR TIGHT). FBC EC 502.3.8.
 37. ALL TERMINATIONS SHALL BE RATED AT 75 DEG. NEC 110.14.
 38. NOT LESS THAN 90% OF THE LAMPS SHALL HAVE AN EFFICACY OF AT LEAST 45 LUMENS/W OR NOT LESS THAN 65 LUMENS/W. FBC RE R404.
 39. ALL FANS UNITS MUST BE INSTALLED USING A FAN BOX. NEC 422.18.

- SMOKE DETECTOR NOTES (FIELD VERIFY):**
1. SMOKE DETECTOR WIRING SHALL BE MADE SO THAT WHEN ONE IS ACTIVATED THE REST SHALL BE ACTIVATED.
 2. SMOKE ALARM STATION SHALL BE 120 VOLTS HARDWIRE WITH BATTERY BACKUP.
 3. PROVIDE SMOKE ALARMS (DETECTORS) ON EACH SLEEPING ROOM, IMMEDIATE VICINITY OF SLEEPING AREAS, AND ON EACH ADDITIONAL STORY. IN COMPLIANCE WITH FBCR 314.

NOTES

1- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF LIGHTING FIXTURES, LIGHTING CONTROL, TV OUTLETS, TELEPHONE OULETS, ETC.

Ricardo Perez de Alejo

Digitally signed by Ricardo Perez de Alejo
Date: 2025.05.17 13:27:54 -04'00'

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SHEET TITLE:

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REVISIONS:

JOB:

12700

SHEET:

E-2.1

ORIGINAL ISSUE DATE: 12-26-2024
PLOT DATE: 2025-05-09

ELECTRICAL PANEL SCHEDULE "A"																			
TYPE : AQ, G.E.				10,000 A.I.C.				MAINS BUS RATING : M.C.B.				200 AMP				VOLTAGE : 120/240V-1PHASE-3WIRE-S/N			
MOUNTING : FLUSH				LOCATION : UTILITY ROOM															
DESCRIPTION	WIRE & COND. SIZE	LOAD (V.A.)	POLE / TRIP	CKT. No.	A	B	CKT. No.	POLE / TRIP	LOAD (V.A.)	WIRE & COND. SIZE	DESCRIPTION								
DBL/OVEN	#8-3/4"	6000	2 / 40	1			2	1 / 20	(1)	#12-1/2"	BAR REC.	*							
				3			4	1 / 20	(1)	#12-1/2"	FAMILY DEN	*							
DBL/OVEN	#8-3/4"	6000	2 / 40	5			6	1 / 20	1500	#12-1/2"	KITCHEN APP.	*							
				7			8	1 / 20	1500	#12-1/2"	KITCHEN APP.	*							
*** DISH WASHER	#12-1/2"	1200	1 / 20	9			10	1 / 20	(1)	#12-1/2"	POWDER REC.	*							
*** GARBAGE DISPOSAL	#12-1/2"	1200	1 / 20	11			12	1 / 15	100	#14-1/2"	COOK TOP PILOT	*							
*** COOK TOP PILOT	#14-1/2"	100	1 / 15	13			14	1 / 15	200	#14-1/2"	HOOD	*							
*** HOOD	#14-1/2"	100	1 / 15	15			16	1 / 20	1500	#12-1/2"	KITCHEN APP.	*							
*** FREEZER	#12-1/2"	1000	1 / 20	17			18	1 / 20	1500	#12-1/2"	KITCHEN APP.	*							
* MICROWAVE	#12-1/2"	1200	1 / 20	19			20	1 / 20	(1)	#12-1/2"	STAFF BATH REC.	*							
*** COFFEE MAKER	#12-1/2"	800	1 / 20	21			22	1 / 20	1500	#12-1/2"	LAUNDRY #1 REC.	*							
*** FREEZER	#12-1/2"	800	1 / 20	23			24	1 / 20	300	#12-1/2"	GARAGE REC.	*							
*** REFRIGERATOR	#12-1/2"	800	1 / 20	25			26	1 / 20	(1)	#12-1/2"	POWDER REC.	*							
*** REFRIGERATOR	#12-1/2"	800	1 / 20	27			28	1 / 20	800	#12-1/2"	ICE MAKER	*							
* THEATER RC.	#12-1/2"	(1)	1 / 20	29			30	1 / 20	800	#12-1/2"	LOW REF.	*							
*** REFRIGERATOR	#12-1/2"	600	1 / 20	31			32	1 / 20	(1)	#12-1/2"	OFFICE/GUEST BATH	*							
*** EXTERIOR REC.	#12-1/2"	600	1 / 20	33			34												
*** DISH WASHER	#12-1/2"	1200	1 / 20	35			36												
				37			38												
				39			40												
* AFCI TYPE BREAKER ** GFCI TYPE BREAKER *** AFCI & GFCI TYPE BREAKER																			
LOAD CALCULATION PANEL "A"																			
GENERAL LIGHTING 1651 S.F. AT 3 VA/S.F. = 4953 VA SMALL APP. = 6000 VA LAUNDRY REC. =1500 TOTAL = 12453 VA DEMAND FACTOR: FIRST 3000 VA AT 100% = 3000 VA REMAINDER AT 35% = 12453 - 3000 = 9453 * 0.35 = 3309 VA LIGHTING LOAD = 3000 + 3309 = 6309 VA DBL/OVEN = 12000 VA APPLIANCES LOAD = 11200 VA MISCELLANEOUS LOAD = 1400 VA A/C LOAD AT 100% = 0 VA TOTAL DEMAND LOAD = 30909 VA TOTAL DEMAND AMPS = 129 AMPS PER PHASE (1) LIGHTING LOAD AT 3 VA PER SQUARE FEET NOTES: IN EVENT OF EMERGENCY, THE SMART MODULE SHALL DISCONNECT: BOTH OVENS																			
GENERAL LOAD = 37053 VA																			

ELECTRICAL PANEL SCHEDULE "C"																			
TYPE : AQ, G.E.				10,000 A.I.C.				MAINS BUS RATING : M.C.B.				125 AMP				VOLTAGE : 120/240V-1PHASE-3WIRE-S/N			
MOUNTING : FLUSH				LOCATION : 2ND FLOOR CLOSET.															
DESCRIPTION	WIRE & COND. SIZE	LOAD (V.A.)	POLE / TRIP	CKT. No.	A	B	CKT. No.	POLE / TRIP	LOAD (V.A.)	WIRE & COND. SIZE	DESCRIPTION								
MASTER BATH REC.	#12-1/2"	(1)	1 / 20	1			2	2 / 40	5000	#10-1/2"	DRYER	**							
* MASTER SUITE REC.	#12-1/2"	(1)	1 / 20	3			4	1 / 40											
* MASTER SUITE LTS.	#12-1/2"	(1)	1 / 20	5			6	1 / 20	1500	#12-1/2"	WASHER MACHINE	***							
* BEDROOM #2	#12-1/2"	(1)	1 / 20	7			8	2 / 40	5000	#10-1/2"	DRYER	**							
* LAUNDRY #2 LTS.	#12-1/2"	(1)	1 / 20	9			10	1 / 40											
* MAIN HALLWAY	#12-1/2"	(1)	1 / 20	11			12	1 / 20	1500	#12-1/2"	WASHER MACHINE	***							
* MASTER BATH LTS.	#12-1/2"	(1)	1 / 20	13			14	1 / 20	1500	#12-1/2"	LAUNDRY #2 RC.	***							
* BEDROOM #3	#12-1/2"	(1)	1 / 20	15			16	1 / 20	(1)	#12-1/2"	FAMILY SEATING	*							
* BEDROOM #5	#12-1/2"	(1)	1 / 20	17			18	1 / 20	(1)	#12-1/2"	BATH #3 REC.	*							
* BEDROOM #4	#12-1/2"	(1)	1 / 20	19			20	1 / 20	(1)	#12-1/2"	BATH #4 REC.	*							
* BEDROOM #6	#12-1/2"	(1)	1 / 20	21			22	1 / 20	(1)	#12-1/2"	BATH #5 REC.	*							
TOILET REC.	#12-1/2"	800	1 / 20	23			24	1 / 20	800	#12-1/2"	AV#6 RECEPTACLE	*							
TOILET REC.	#12-1/2"	800	1 / 20	25			26	1 / 20	800	#12-1/2"	U/C REF.	*							
COUNTER REC.	#12-1/2"	1200	1 / 20	27			28	1 / 20	(1)	#12-1/2"	BATH #2 REC.	*							
				29			30	1 / 20	(1)	#12-1/2"	BATH #6 REC.	*							
				31			32												
				33			34												
				35			36												
				37			38												
				39			40												
* AFCI TYPE BREAKER ** GFCI TYPE BREAKER *** AFCI & GFCI TYPE BREAKER																			
LOAD CALCULATION PANEL "C"																			
GENERAL LIGHTING 4369 S.F. AT 3 VA/S.F. = 13107 VA LAUNDRY REC. = 1500 VA TOTAL = 14607 VA DEMAND FACTOR: FIRST 3000 VA AT 100% = 3000 VA REMAINDER AT 35% = 14607 - 3000 = 11607 * 0.35 = 4062 VA LIGHTING LOAD = 3000 + 4062 = 7062 VA DRYER LOAD = 10000 VA APPLIANCES LOAD = 3800 VA MISCELLANEOUS LOAD = 800 VA A/C LOAD AT 100% = 0 VA TOTAL DEMAND LOAD = 21662 VA TOTAL DEMAND AMPS = 90 AMPS PER PHASE (1) LIGHTING LOAD AT 3 VA PER SQUARE FEET NOTES: IN EVENT OF EMERGENCY, THE SMART MODULE SHALL DISCONNECT: DRYER MACHINE & WASHER MACHINE. (C-2,4,6)																			
GENERAL LOAD = 29207 VA																			

ELECTRICAL PANEL SCHEDULE "B"																	
TYPE : AQ, G.E.						10,000 A.I.C.						MAINS : M.C.B.					
MOUNTING : FLUSH												BUS RATING : 200					
LOCATION : UTILITY ROOM												VOLTAGE : 120/240V-1PHASE-3WIRE-S/N					
DESCRIPTION	WIRE & COND. SIZE	LOAD (V.A.)	POLE / TRIP	CKT. No.	A	B	CKT. No.	POLE / TRIP	LOAD (V.A.)	WIRE & COND. SIZE	DESCRIPTION						
FAMILY / BAR LTS.	#12-1/2"	(1)	1 / 20	1	→	→	2	1 / 20	800	#12-1/2"	AV #4 RECEPTACLE	*					
AV RECEPTACLE	#12-1/2"	800	1 / 20	3	→	→	4	1 / 20	600	#12-1/2"	TERRACE REC.	*					
FAMILY ROOM LTS.	#12-1/2"	(1)	1 / 20	5	→	→	6	2 / 40	5000	#10-1/2"	DRYER	**					
FAMILY ROOM REC.	#12-1/2"	(1)	1 / 20	7	→	→	8	1 / 40									
DINING / KITCHEN LTS.	#12-1/2"	(1)	1 / 20	9	→	→	10	1 / 20	1500	#12-1/2"	WASHER MACHINE	***					
DINING ROOM REC.	#12-1/2"	1500	1 / 20	11	→	→	12	2 / 40	5000	#10-1/2"	DRYER	***					
STAFF BEDROOM	#12-1/2"	(1)	1 / 20	13	→	→	14	1 / 40									
AV RECEPTACLE	#12-1/2"	700	1 / 20	15	→	→	16	1 / 20	1500	#12-1/2"	WASHER MACHINE	***					
KITCHEN BOH LTS.	#12-1/2"	(1)	1 / 20	17	→	→	18	1 / 20	800	#12-1/2"	ICE MAKER	***					
COVERED TERRACE	#12-1/2"	(1)	1 / 20	19	→	→	20	1 / 20	800	#12-1/2"	UC REF.	*					
AV RECEPTACLE	#12-1/2"	700	1 / 20	21	→	→	22	1 / 20	1200	#12-1/2"	DISH WASHER	***					
LAUNDRY #1 LTS.	#12-1/2"	(1)	1 / 20	23	→	→	24	1 / 20	1200	#12-1/2"	GARBAGE DISPOSAL	***					
CAR GARAGE LTS.	#12-1/2"	(1)	1 / 20	25	→	→	26	1 / 20	600	#12-1/2"	EXTERIOR LTS.	*					
LIVING ROOM LTS.	#12-1/2"	(1)	1 / 20	27	→	→	28	1 / 20	700	#12-1/2"	AV #5 RECEPTACLE	*					
LIVING ROOM REC.	#12-1/2"	(1)	1 / 20	29	→	→	30	1 / 20	(1)	#12-1/2"	HOME THEATER LTS.	*					
OFFICE/GUEST SUITE	#12-1/2"	(1)	1 / 20	31	→	→	32	1 / 20	(1)	#12-1/2"	POWDER LTS	*					
GARAGE DOOR	#12-1/2"	450	1 / 20	33	→	→	34										
GARAGE DOOR	#12-1/2"	450	1 / 20	35	→	→	36										
EXTERIOR REC.	#12-1/2"	500	1 / 20	37	→	→	38										
				39	→	→	40										
* AFCI TYPE BREAKER ** GFCI TYPE BREAKER *** AFCI & GFCI TYPE BREAKER																	
LOAD CALCULATION PANEL "B"																	
GENERAL LIGHTING 3883 S.F. AT 3 VA/S.F. = 11649 VA									GENERAL LOAD = 36449 VA								
SMALL APP. = 1500 VA																	
LAUNDRY REC. = 3000 VA																	
TOTAL = 16149 VA																	
DEMAND FACTOR:																	
FIRST 3000 VA AT 100% = 3000 VA																	
REMAINDER AT 35% = 16149 - 13149 = 13149 * 0.35 = 5652 VA																	
LIGHTING LOAD = 3000 + 5652 = 8652 VA																	
DRYER LOAD = 10000 VA																	
APPLIANCES LOAD = 4000 VA																	
MISCELLANEOUS LOAD = 6300 VA																	
A/C LOAD AT 100% = 0 VA																	
TOTAL DEMAND LOAD = 28952 VA																	
TOTAL DEMAND AMPS = 121 AMPS PER PHASE																	
(1) LIGHTING LOAD AT 3 VA PER SQUARE FEET																	
NOTES:																	
IN EVENT OF EMERGENCY, THE SMART MODULE SHALL DISCONNECT: BOTH DRYER MACHINES & WASHER MACHINES.																	

