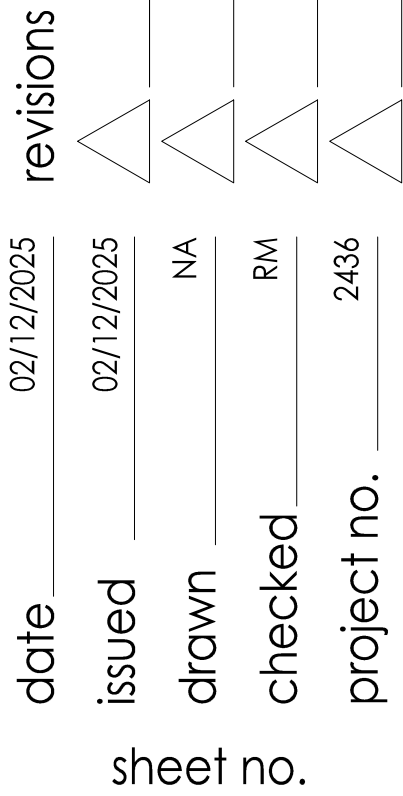
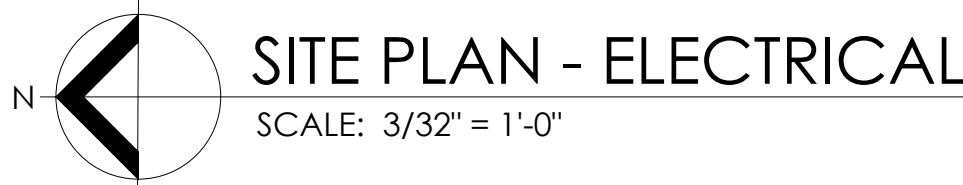
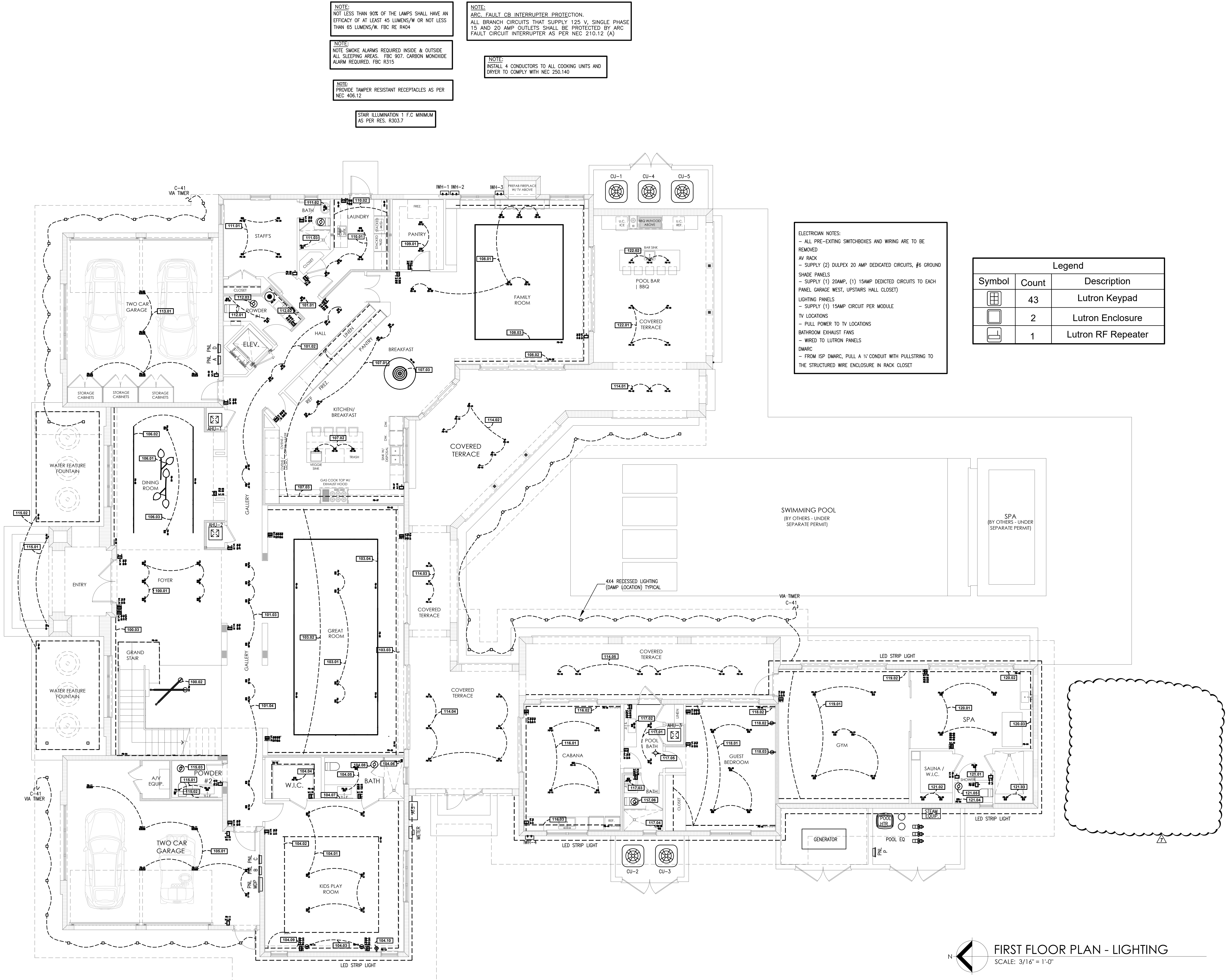


GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH NFPA 70 (NEC 2017) AND FBC 2020 (7TH EDITION)
2. PROVIDE ALL REQUIRED CONNECTIONS FOR OTHER TRADES, INCLUDING TEMPORARY POWER.
3. OBTAIN ALL PERMITS FOR WORK UNDER THIS CONTRACT.
4. CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS, WHEN APPLICABLE.
5. ALL EQUIPMENT HAS BEEN RATED AS INDICATED IN PANEL SCHEDULE. ELECTRICAL CONTRACTOR TO BE RESPONSIBLE TO NOTIFY THE ELECTRICAL ENGINEER IF ANY CHANGE IN MANUFACTURER SPECIFICATIONS PRIOR ORDERING.
6. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED FOR A COMPLETE ELECTRICAL INSTALLATION IN ACCORDANCE WITH THESE DRAWINGS.
7. DISCONNECTING MEANS ASSOCIATED WITH APPLIANCES TO COMPLY WITH NEC 422.31
8. ALL ELECTRICAL WIRING IN CEILING PLenums SHALL BE PLENUM RATED IN ACCORDANCE WITH F.B.C. AND N.E.C. SEE A/C AND ARCHITECTURAL PLANS FOR EXACT LOCATION.
9. COORDINATE ALL LIGHTING FIXTURES WITH MECHANICAL AND PLUMBING TRADES BEFORE ROUGH-IN, PARTICULARLY IN RECESSED TYPES. BE NOTIFIED A/E OF ANY DISCREPANCIES.
10. COORDINATE EXACT LOCATION OF DROP AND LUMINOUS CEILING AREAS WITH ARCHITECTURAL DRAWINGS.
11. VERIFY CEILING LOCATION OF LIGHTING FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLAN BEFORE ROUGH-IN.
12. COORDINATE ALL BOXES EXACT LOCATION WITH BUILDING ARCHITECTURAL FEATURES.
13. THERMOSTAT WIRING SHALL BE DONE BY ELECTRICAL CONTRACTOR PER DIAGRAMS BY UNIT MANUFACTURER. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION.
14. RECEPTACLES AND ELECTRIC BOXES INSTALLED OUTDOORS TO BE WEATHERPROOF. PROTECTED (NEC 406.3)
15. ALL WIRING SHALL BE COPPER THW/THWN/THW EXCEPT OTHERWISE NOTED. OTHER TYPES MAY BE USED IF ACCEPTED BY CODE.
16. INDOOR CONDUIT SHALL BE EMT, EXCEPT FOR BASEMENT.
17. ALL DUPLEX RECEPTABLES SHALL BE 120V/15/20A-2P-3W GROUNDED, STANDARD GRADE, COLOR CODING. RECEPTABLES SHALL BE MANUFACTURED BY SATE DECORATOR SERIES OF COLOR SELECTED BY ARCHITECT, EXCEPT OTHERWISE HAS NOTED.
18. ALL CONDUITS SHALL BE CONCEALED IN CEILING, WALL OR FLOOR.
19. ALL RECEPTABLES SHALL BE WIRED IN ACCORDANCE WITH NEC TO ENSURE CORRECT POLARITY.
20. PROVIDE FIRE STOPS IF ALL ELECTRICAL CONDUITS CROSSING FIRE RATED CEILING AND/OR WALLS. CONSULT WITH ARCHITECT BEFORE PROCEEDING WITH ANY PENETRATION THROUGH WALL AND CEILING.
21. ALL DUPLEX RECEPTABLES SHALL BE INSTALLED IN VERTICAL POSITION AT +18" AFF MINIMUM, EXCEPT OTHERWISE HAS NOTED.
22. ALL CIRCUIT BREAKERS IN ALL PANELS, DISTRIBUTION PANELS, ETC. MUST BE CLEARLY IDENTIFIED ON DOOR SCHEDULE OR WITH PLASTIC STRIPS AFFIXED PERMANENTLY TO PANEL DOOR. ALL PANELS, O.P. ETC. MUST BE STENCILED ON THE OUTSIDE DOOR OR TO HAVE A PLASTIC LABEL SHOWING NAME OF PANEL, VOLTAGE, AND PHASE AS SHOWN IN THIS SET OF PLANS.
23. ALL CB9 FOR HVAC AND REFRIGERATION SYSTEMS SHALL BE HACR LISTED (NEC 440.21)
24. PROVIDE EMPTY CONDUITS WITH PULL WIRE FOR TELEPHONE, DATA/COM. CABLEING AND CATV SYSTEMS AS REQUIRED BY UTILITY CO.
25. ALL BRANCH CIRCUITS THAT SUPPLY 125 V, SINGLE PHASE 15 AND 20 AMP OUTLETS SHALL BE PROTECTED BY ARC FAULT CIRCUIT INTERRUPTER AS PER NEC 210.12
26. ALL RECEPTABLES TO BE TAMPER RESISTANT AS PER NEC 406.12

ELECTRICAL LEGEND					
	RECESSED OR SURFACE MOUNTED FLUORESCENT LIGHT FIXTURE, SIZE AS PER PLAN.		CEILING MOUNTED JUNCTION BOX.		CARBON MONOXIDE SMOKE DETECTOR WITH BATTERY BACK UP CONNECTED TO 120 VOLTS AND INTERLOCK WITH THE SAME CIRCUIT.
	SURFACE MOUNTED CEILING LIGHT FIXTURE.		JUNCTION BOX FOR LANDSCAPE LOAD.		SINGLE RECEPTACLE – 120 VOLT, 1 PHASE, 3 WIRE, WALL MOUNTED AT 18" AFF UNO OR FLUSH FLOOR MOUNTED.
	RECESSED MOUNTED CEILING LIGHT FIXTURE.		SINGLE POLE TOGGLE SWITCH MOUNTED AT 48" AFF UNO.		DUPLEX RECEPTACLE – 120 VOLT, 1 PHASE, 3 WIRE, WALL MOUNTED AT 18" AFF UNO OR FLUSH FLOOR MOUNTED.
	WALL MOUNTED LIGHT FIXTURE, MOUNTING HEIGHT AS INDICATED.		THREE WAY POLE TOGGLE SWITCH MOUNTED AT 48" AFF UNO.		QUAD RECEPTACLE – 120 VOLT, 1 PHASE, 3 WIRE, WALL MOUNTED AT 18" AFF UNO OR FLUSH FLOOR MOUNTED.
	RECESSED MOUNTED CEILING LIGHT FIXTURE (WALL WASH).		DIMMER SWITCH 600 WATTS MINIMUM MOUNTED AT 48" AFF UNO.		GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE – 120 VOLT, 1 PHASE, 3 WIRE, WALL MOUNTED AT 18" AFF UNO OR FLUSH FLOOR MOUNTED.
	CEILING MOUNTED CHANDELIER FIXTURE.		MANUAL MOTOR RATED STARTER TOGGLE SWITCH WITH THERMAL OVERLOADS.		SINGLE RECEPTACLE – 240 VOLT, 1 PHASE, 4 WIRE, MOUNTED AT 18" AFF UNO.
	FLOOD LIGHT FIXTURE.		PUSH BUTTON – SWITCH CONTROLLER, 48" AFF UNO.		ELECTRICAL PANEL.
	SIDE WALL LIGHT FIXTURE.		DATA OUTLET WALL MOUNTED 18" AFF UNO (STUB UP 3/4" CONDUIT INTO CEILING SPACE) OR FLUSH FLOOR MOUNTED.		ELECTRICAL SERVICE METER.
	COLUMN POST LIGHT FIXTURE.		TELEPHONE OUTLET WALL MOUNTED AT 18" AFF UNO (STUB UP 3/4" CONDUIT INTO CEILING SPACE) OR FLUSH FLOOR MOUNTED.		SAFETY DISCONNECT SWITCH, 3 = No. OF POLES, 60 = SWITCH SIZE, F= FUSED AS PER MFG. NAMEPLATE, NF = NON FUSED.
	BOLLARD LIGHT FIXTURE.		COMBINATION TELEPHONE / DATA OUTLET WALL MOUNTED AT 18" AFF UNO (STUB UP 3/4" CONDUIT INTO CEILING SPACE) OR FLUSH FLOOR MOUNTED.		GARBAGE DISPOSAL.
	TRACK LIGHT FIXTURE BUS AND LUMINAIRES.		CABLE TV OUTLET WALL MOUNTED AT 18" AFF UNO (STUB UP 3/4" CONDUIT INTO CEILING SPACE) OR FLUSH FLOOR MOUNTED.		CEILING OR ROOF MOUNTED EXHAUST FAN.
	CEILING FAN (SUFFIX F/L DENOTES FAN & LIGHT), INSTALL SPECIAL SUPPORTED JUNCTION BOX.				
	RECESSED MOUNTED CEILING LIGHT FIXTURE (VAPOR PROOF).				





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

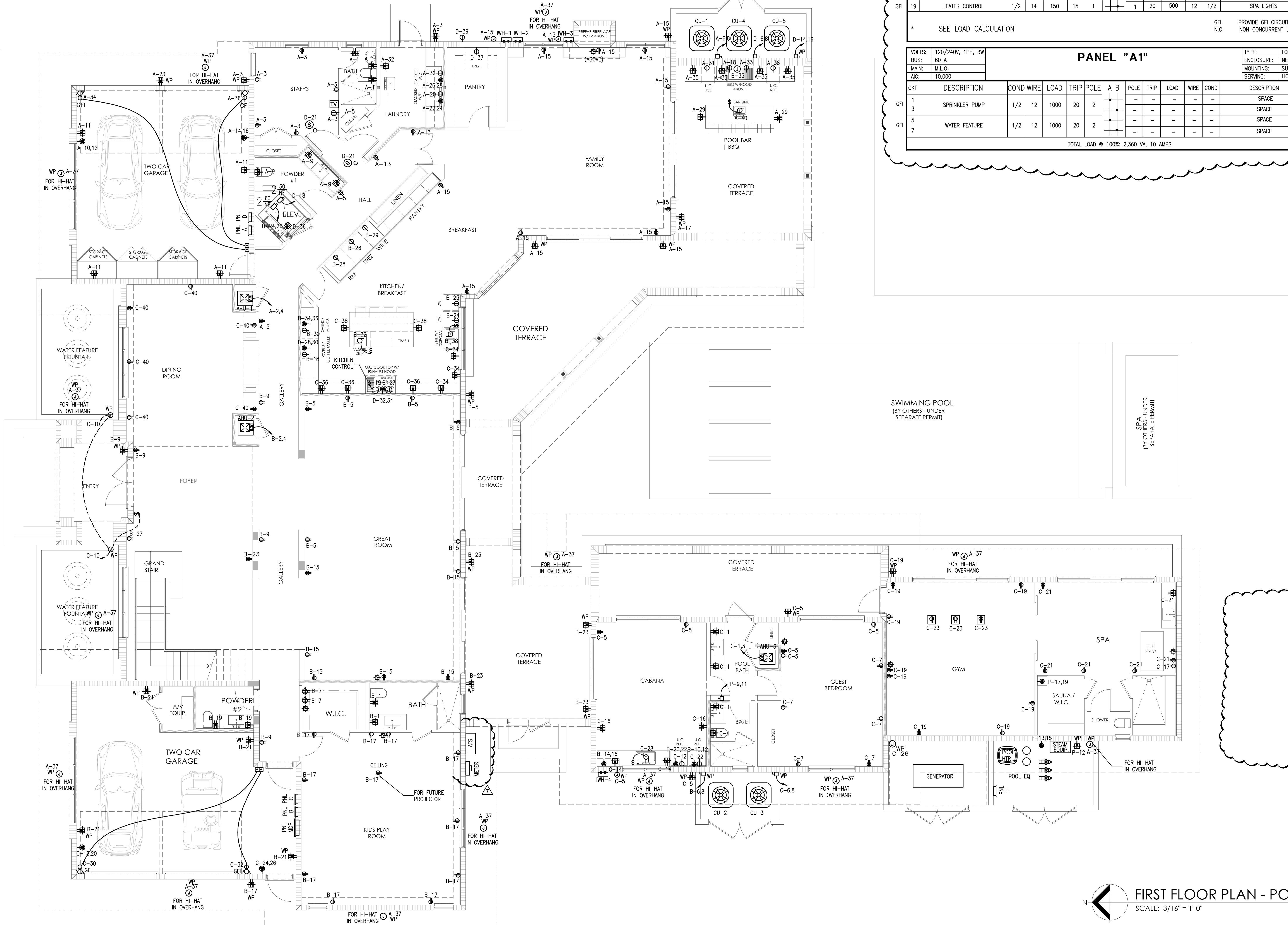
LOAD CALCULATION	PANEL "A"	PANEL "B"	PANEL "C"	PANEL "D"	PANEL "P"	SERVICE
SQUARE FEET OF CONDITION SPACE	2,185	2,053	1,390	3,854	0	9,482
GENERAL LIGHTING AT 3 W.S.F	6,555	6,159	4,170	11,562	0	28,446
SMALL APPLIANCES CIRCUITS	2	2	5	1	0	10
SMALL APPLIANCES LOAD	3,000	3,000	7,500	1,500	0	15,000
RANGE / OVEN OR COOK TOP	0	0	0	10,000	0	10,000
DOUBLE OVEN	0	6,000	0	0	0	6,000
DRYER	10,000	0	0	0	0	10,000
HOT WATER HEATER	0	0	0	0	0	0
SPRINKLER PUMP	0	0	0	0	1,000	1,000
POOL EQUIPMENT	0	0	0	0	2,000	2,000
SPA EQUIPMENT	0	0	0	0	1,000	1,000
OTHER LIGHTING	0	0	1,000	0	2,000	2,000
WASHER	3,000	0	0	0	0	3,000
REFRIGERATOR	1,600	2,900	1,000	2,500	0	8,000
DISHWASHER	0	4,800	0	0	0	4,800
DISPOSAL	900	1,800	900	0	0	3,600
MICROWAVE	0	1,500	0	0	0	1,500
GARAGE DOOR OPENER & GATE MOTOR	1,800	0	2,700	0	0	4,500
WHIRLPOOL	0	1,200	0	0	0	1,200
OTHER LOAD 120V (EXHAUST FAN, FOUNTAIN)	900	1,700	1,800	300	0	4,700
LOAD 240V (E.V. CHARGER, ELEVATOR, KITCHENETTE, STEAM UNIT)	32,000	12,000	16,000	14,500	0	74,500
CONNECTED LOAD WITHOUT A/C LOAD	59,755	41,059	35,070	40,362	0	181,246
FIRST 10000 AT 100%	10,000	10,000	10,000	10,000	5,000	10,000
REST AT 40%	19,902	12,424	10,028	12,145	0	68,498
A/C LOAD AT 100%	12,912	12,912	10,000	25,524	0	61,448
TOTAL	42,814	35,336	35,028	47,969	5,000	140,116
AT 240 VOLT	178	147	125	200	21	584

PANEL "A"														VOLTS: 120/240V, 1PH, 3W	TYPE: LOAD CENTER
BUS: 200 A														ENCLOSURE: NEMA 1	
MAIN: M.L.O.														MOUNTING: FLUSH	
AIC: 10,000														SERVING: HOUSE	
OKT	DESCRIPTION	COND	WIRE	LOAD	TRIP	POLE	A	B	POLE	TRIP	LOAD	WIRE	COND	DESCRIPTION	OKT
1	STAFF BATHROOM	1/2	12	*	20	1			2	60	12912	4	1	AHU-1	2
3	STAFF OUTLETS	1/2	14	*	15	1									4
5	HALL OUTLETS	1/2	14	*	15	1			2	60	6720	8	1	CU-1	6
7	L.C.P. GARAGE EAST MODULE 1	1/2	12	*	20	1			2	40	8000	8	3/4	E.V. CHARGER	8
9	POWDER #1	1/2	12	*	20	1			2	40	8000	8	3/4	E.V. CHARGER	10
11	GARAGE OUTLETS	1/2	12	*	20	1			1	20	8000	12	1/2	KITCHEN SPARK	12
13	HALL OUTLETS	1/2	14	*	15	1			1	20	1500	12	1/2	WASHING MACHINE	14
15	FAMILY ROOM OUTLETS	1/2	14	*	15	1			2	30	5000	10	1/2	DRYER	16
17	L.C.P. GARAGE EAST MODULE 2	1/2	12	*	20	1			1	20	8000	12	1/2	KITCHEN SPARK	18
19	KITCHEN CONTROL	1/2	12	900	200	1			2	30	5000	10	1/2	DRYER	20
21	L.C.P. GARAGE EAST MODULE 3	1/2	12	*	20	1			1	20	1500	12	1/2	WASHING MACHINE	22
23	L.C.P. GARAGE EAST MODULE 4	1/2	12	*	20	1			1	20	1500	12	1/2	LAUNDRY OUTLET	24
25	L.C.P. GARAGE EAST MODULE 5	1/2	12	*	20	1			1	20	900	12	1/2	GARAGE DOOR OPENER	26
27	L.C.P. GARAGE EAST MODULE 6	1/2	12	*	20	1			1	20	800	12	1/2	GARAGE DOOR OPENER	28
29	SMALL APPLIANCE	1/2	12	1500	20	1			2	60	*	6	1	SUB PANEL "A1"	30
31	ICE MAKER	1/2	12	800	20	1			1	20	1500	12	1/2	WASHING MACHINE	32
33	EXHAUST FAN BBQ	1/2	12	900	20	1			1	20	900	12	1/2	GARAGE DOOR OPENER	34
35	SMALL APPLIANCE	1/2	12	1500	20	1			1	20	800	12	1/2	REFRIGERATOR	36
37	L.C.P. GARAGE EAST MODULE 7	1/2	12	*	20	1			2	60	*	6	1		38
39	L.C.P. GARAGE EAST MODULE 8	1/2	12	*	20	1									40
41	L.C.P. GARAGE EAST MODULE 9	1/2	12	*	20	1									42
* SEE LOAD CALCULATION														GFI: PROVIDE GFI CIRCUIT BREAKER	
USE OF ROMEX SHALL BE PERMITTED														N.C.: NON CONCURRENT LOAD	
GFI BREAKER															

PANEL "MDP"														VOLTS: 120/240 V, 1 PH, 3 W	TYPE: LOAD CENTER
BUS: 600 A														ENCLOSURE: NEMA 1	
MAIN: M.L.O.														MOUNTING: SURFACE	
AIC: 22,000														SERVING: HOUSE	
OKT	DESCRIPTION	COND	WIRE	LOAD	TRIP	POLE	A	B	POLE	TRIP	LOAD	WIRE	COND	DESCRIPTION	OKT
1	PANEL "A"	SEE RISER	*	200	2				2	200	*			SEE RISER	2
3															4
5	PANEL "B"	SEE RISER	*	200	2				2	150	*			SEE RISER	6
7															8
9	PANEL "C"	SEE RISER	*	150	2									SPACE	10
11															12
* SEE LOAD CALCULATION														GFI: PROVIDE GFI CIRCUIT BREAKER	
														N.C.: NON CONCURRENT LOAD	

PANEL "P"														VOLTS: 120/240V, 1PH, 3W	TYPE: LOAD CENTER
BUS: 150 A														ENCLOSURE: NEMA 3R	
MAIN: 150A M.C.B.														MOUNTING: SURFACE	
AIC: 10,000														SERVING: POOL	
OKT	DESCRIPTION	COND	WIRE	LOAD	TRIP	POLE	A	B	POLE	TRIP	LOAD	WIRE	COND	DESCRIPTION	OKT
1	GENERATOR CHARGER	1/2	12	1500	20	1			2	20	1500	12	1/2	BLOWER 2 HP	2
3	EXTERIOR OUTLET	1/2	12	*	20	1									4
5	SPA PUMP	1/2	12	2000	20	2			2	20	1500	12	1/2	POOL PUMP 1.5 HP	6
7															8
9	JACUZZI PUMP	1/2	12	1500	20	2			1	20	500	12	1/2	POOL LIGHTS	10
11									2	40	4000	8	3/4	WET SAUNA	12
13															14
15	STEAM UNIT	3/4	8	7500	40	2			-	-	-	-	-	SPACE	16
17	RECEPTACLE	1/2	12	1000	20	1			-	-	-	-	-	SPACE	18
19	HEATER CONTROL	1/2	14	150	15	1			1	20	500	12	1/2	SPA LIGHTS	20
* SEE LOAD CALCULATION														GFI: PROVIDE GFI CIRCUIT BREAKER	
														N.C.: NON CONCURRENT LOAD	

PANEL "A1"														VOLTS: 120/240V, 1PH, 3W	TYPE: LOAD CENTER
BUS: 60 A														ENCLOSURE: NEMA 3R	
MAIN: M.L.O.														MOUNTING: SURFACE	
AIC: 10,000														SERVING: HOUSE	
OKT	DESCRIPTION	COND	WIRE	LOAD	TRIP	POLE	A	B	POLE	TRIP	LOAD	WIRE	COND	DESCRIPTION	OKT
1	SPRINKLER PUMP	1/2	12	1000	20	2			-	-	-	-	-	SPACE	2
3									-	-	-	-	-	SPACE	4
5	WATER FEATURE	1/2	12	1000	20	2			-	-	-	-	-	SPACE	6
TOTAL LOAD @ 100%: 2,360 VA, 10 AMPS															



NOTE:
ARC FAULT CB INTERRUPTER PROTECTION.
ALL BRANCH CIRCUITS THAT SUPPLY 125 V, SINGLE PHASE 15 AND 20 AMP OUTLETS SHALL BE PROTECTED BY ARC FAULT CIRCUIT INTERRUPTER AS PER NEC 210.12 (A)

NOTE:
INSTALL 4 CONDUCTORS TO ALL COOKING UNITS AND DRYER TO COMPLY WITH NEC 250.140

NOTE:
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

STAIR ILLUMINATION 1 F.C. MINIMUM AS PER RES. R303.7

NOTE:
NOTE SMOKE ALARMS REQUIRED INSIDE & OUTSIDE ALL SLEEPING AREAS. FBC 907. CARBON MONOXIDE ALARM REQUIRED. FBC R315

NOTE:
PROVIDE TAMPER RESISTANT RECEPTACLES AS PER NEC 406.12

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



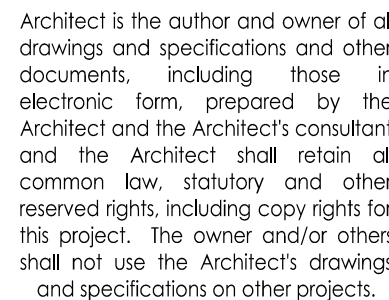
date	02/12/2025	revisions	
issued	02/12/2025	NA	
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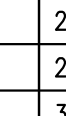
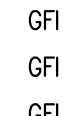
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