



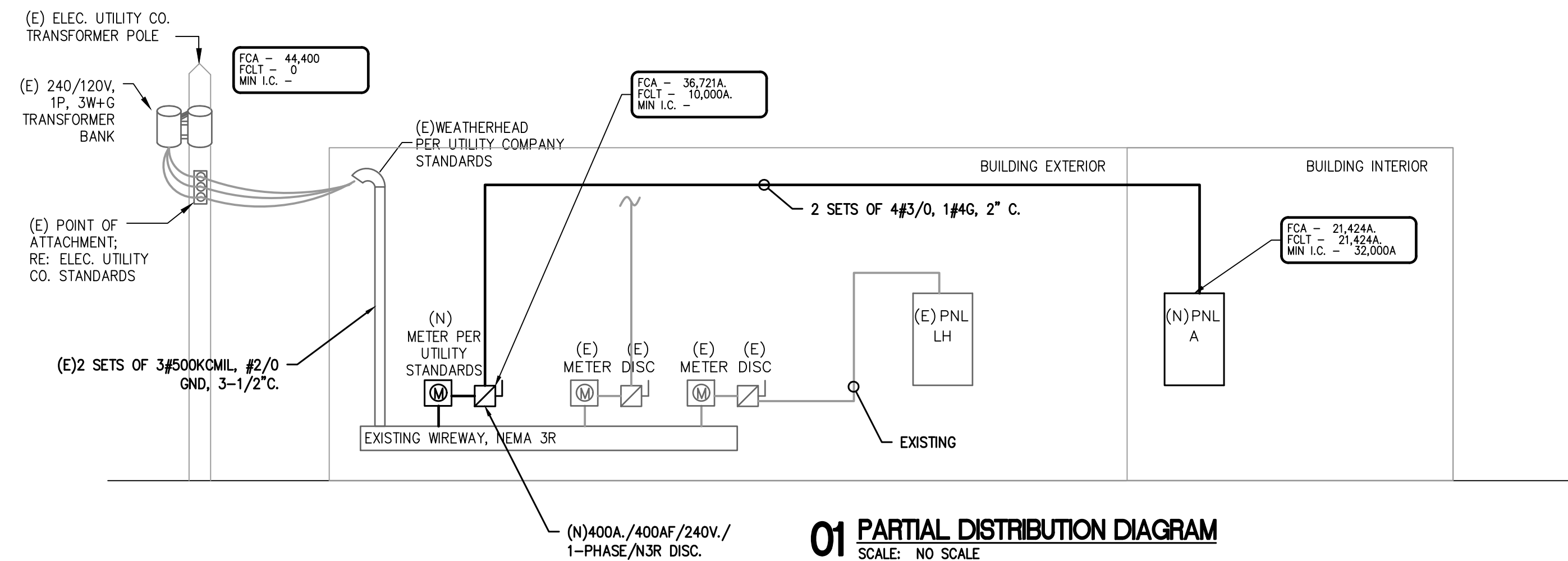
ARCHITECTURE PLANNING INTERIOR DESIGN
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ACORN GOLF SIMULATOR
13825 Timber Forest Dr, Houston, TX 77044
SUITE 103

E/P/PROJECT NUMBER: 26052.00



ELECTRICAL DISTRIBUTION DIAGRAM NOTES:

- CONDUCTOR SIZES SHOWN ARE FOR COPPER CONDUCTORS WITH THWN INSULATION IN EMT (4" C, OR LESS) OR RIGID CONDUIT (> 4" C). PROVIDE GROUNDING CONDUCTORS FOR ALL CONDUIT. GROUNDING CONDUCTORS ARE NEEDED FOR ALL PVC CONDUIT.
- SHORT CIRCUIT CURRENT VALUES ARE GIVEN IN RMS SYMMETRICAL AMPERES. PREFIX 'FCA' INDICATES MAXIMUM AVAILABLE FAULT CURRENT. PREFIX 'FOLT' INDICATES APPARENT LET-THRU CURRENT FROM UPSTREAM CURRENT LIMITING DEVICE.
- ELECTRICAL SYSTEM SHALL BE FULLY RATED. SERIES RATED EQUIPMENT IS NOT ACCEPTABLE.
- PROVIDE FULL LENGTH, FULL SIZE INSULATED GROUND AND NEUTRAL BUS IN ALL PANELBOARDS.
- REFER TO ELECTRICAL UTILITY SPECIFICATIONS FOR ALL WORK AT SERVICE POINT OF ATTACHMENT.
- CONTRACTOR TO VERIFY FAULT CURRENT AVAILABLE AT UTILITY TRANSFORMER SECONDARY WITH ELECTRICAL UTILITY FOR THE FINAL SELECTION OF EQUIPMENT AIC RATINGS.
- SPARES AND SPACES ARE INDICATED ON PANELBOARD SCHEDULES.
- FLEXIBLE METAL CONDUIT SHALL NOT BE USED IN WET LOCATIONS OR WET AREAS.
- ALL FEEDER AND BRANCH CIRCUIT WIRING METHODS SHALL INCLUDE AN EQUIPMENT-GROUNDING CONDUCTOR PER NEC.
- ALL CONDUIT BELOW GRADE OR IN CONCRETE SLABS SHALL BE PVC. MAXIMUM CONDUIT SIZE FOR CONDUIT IN CONCRETE SLABS IS 3/4".
- A PERMANENTLY AFFIXED LABEL SHALL BE APPLIED WITH THE AVAILABLE FAULT CURRENT AT THE TIME OF INSTALLATION AND CALCULATION. THE LABEL SHALL BE 2 X 3 IN SIZE AND SHALL BE BLUE LETTERING ON A CONTRASTING BACKGROUND. THIS LABEL SHALL ALSO INCLUDE THE DATE OF THE CALCULATION. CON ELECTRICAL CODE 504.1.1.

ELECTRICAL LOAD ANALYSIS								
PROJECT NAME: ACORN GOLF CLUB								
PROJECT NUMBER: 26052.00								
SERVICE VOLTAGE: 120/240V, 1PH, 3 WIRE, DELTA								
SERVICE RATING: 400 AMPS								
GROSS AREA: 2,354 SQUARE FEET								
LOAD DESCRIPTION	CODE LOAD (kVA)	A PHASE LOAD (kVA)	C PHASE/NEUTRAL LOAD (kVA)	DEMAND FACTORS (%)	DESIGN LOAD, A (A)	DESIGN LOAD, C (A)	DESIGN LOAD, N (A)	REMARKS
240V, 1 PHASE, 2 WIRE LOADS								
EQUIPMENT:	0.0	0.0	100%	0.0	0.0	0.0	0.0	NEC 220.14.A
WATER HEATERS:	16.5	16.5	100%	119.1	119.1	119.1	119.1	NEC 220.14.A
HVAC:	5.9	5.9	100%	42.6	42.6	42.6	42.6	NEC 220.14.C, 220.50
ELECTRIC HEAT:	0.0	0.0	100%	0.0	0.0	0.0	0.0	NEC 220.51
120V, 1 PHASE, 2 WIRE LOADS								
LIGHTS (1.7 VA/FT ²):	4.0	2.6	0.6	2.0	125%	20.8	20.8	NEC 220.12
SIGN LIGHTS:	1.2	0.0	0.0	1.2	125%	12.5	0.0	NEC 220.14.F
SITE LIGHTS:	0.0	0.0	0.0	125%	0.0	0.0	0.0	NEC 220.42, 43, 44, 45
RECEPTACLES:	1.4	0.9	1.4	10kVA+50%	12.0	7.5	12.0	NEC 220.14.H, I, J, K, 220.47
EQUIPMENT:	4.3	5.9	5.9	100%	35.8	48.8	48.8	NEC 220.14.A
WATER HEATERS:	0.0	3.0	3.0	100%	0.0	25.0	25.0	NEC 220.14.A
HVAC:	0.0	0.0	0.0	100%	0.0	0.0	0.0	NEC 220.14.C, 220.50
TOTAL DESIGN LOAD:					A PHASE	C PHASE/NEUTRAL	AMPS	
@ 240V, 1 PHASE:					243	264	119	

NOTE: ALL LOADS AND DEMAND FACTORS ARE IN ACCORDANCE WITH APPLICABLE SECTIONS OF NEC ARTICLE 220

PROJECT NAME: ACORN GOLF CLUB										
PROJECT NUMBER: 26052.00										
PANEL: A										
VOLTAGE: 120/240V, 1PH, 3W										
BUS: 400 AMP										
MAINS: 400A M.C.B.										
ACCESSORIES: INSULATED GROUND										
FEED-THRU LUGS										
CODES: 0=LIGHTS 1=RECEP 2=EQUIP 3=A/C 4=HTG 5=125% LOST MTR 6=KITCHEN 7=PREVIOUSLY CALCULATED										
CODE	LOAD	CIRCUIT DESCRIPTION	BKR	CKT	PH	PKT	BKR	CIRCUIT DESCRIPTION	LOAD	CODE
0	1350	LIGHTS	20/1	1	A	2	20/1	BAY 1 PROJECTOR	800	2
0	600	DISPLAY LTS	20/1	3	C	4	20/1	BAY 1 CPU	400	2
0	1200	SIGN	20/1	5	A	6	20/1	BAY 2 PROJECTOR	800	2
1	360	RESTROOM GF	20/1	7	C	8	20/1	BAY 2 CPU	400	2
1	1080	G.P RECEPTACLES	20/1	9	A	10	20/1	BAY 3 PROJECTOR	800	2
2	1200	EDF	20/1	11	C	12	20/1	BAY 3 CPU	400	2
3	5856	RTU-1	70/2	13	A	14	20/1	BAY TVS	900	2
3	5856	---	---	15	C	16	20/1	COMMON TVS	900	2
---	---	SPARE	20/1	17	A	18	20/1	MINI GOLF TVS	600	2
---	---	SPARE	20/1	19	C	20	20/1	VENDING MACHINE GFCI BRKR	1200	2
2	800	IT DED	20/1	21	A	22	20/1	EQUIPMENT	400	2
2	800	IT DED	20/1	23	C	24	20/1	EQUIPMENT	400	2
1	180	ELECT GP	20/1	25	A	26	20/1	SMALL APPLIANCE	600	6
4	2750	IWH 1	30/2	27	C	28	20/1	SMALL APPLIANCE	600	6
4	2750	---	---	29	A	30	20/1	G.P.	180	1
4	5750	IWH 2	60/2	31	C	32	20/1	G.P.	540	1
4	5750	---	---	33	A	34	20/1	SPARE	---	---
4	6500	IWH 3	70/2	35	C	36	20/1	SPARE	---	---
4	6500	---	---	37	A	38	20/1	SPARE	---	---
4	2750	IWH 1	30/2	39	C	40	20/1	SPARE	---	---
4	2750	---	---	41	A	42	20/1	SPARE	---	---
PHASE CONN. LOAD FACTORS										
LIGHTS		RECEP	EQUIP	MOTORS	HTG	HEAT	DES. KVA/DES. AMP			
2550		1440	6700	5856	17750	A	33.1 LIGHTS @ 125%			
600		900	6300	5856	17750	C	31.4 EQUIP. @ 100%			
						A	LG. MOTOR @ 25%			
						C	10kVA+50%			
3150		2340	12000	11712	35500	TOTAL	F.T.L. TOTAL 64.7 RECEPTS @ 10kVA+50% 65.5 273			

ISSUED FOR CLIENT APPROVAL	DATE
ISSUED FOR BIDDING	04/09/2026
ISSUED FOR PERMIT	
ISSUED FOR CONSTRUCTION	

REVISIONS		
MARK	DESCRIPTION	DATE
	REVIEW SET	03/27/2026
	ISSUE FOR BID SET	04/09/2026

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DESIGN TEAM	
PM:	JG
MECHANICAL:	CC
ELECTRICAL:	JG
CHECKED-BY:	

DRAWING TITLE
ELECTRICAL RISER DIAGRAM

SHEET NO.

E-4.00

