ELECTRICAL SYMBOL LEGEND (SOME MAY NOT BE USED)

Category	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
BOXES		WALL MOUNTED JUNCTION/OUTLET BOX	C	CEILING MOUNTED JUNCTION/OUTLET BOX
BOXES		FLUSH FLOOR MOUNTED JUNCTION/OUTLET BOX		JUNCTION BOX MOUNTED ABOVE CEILING
RACEWAYS AND CIRCUITRY		CIRCUITRY, CONCEALED IN WALL OR CEILING	P	POWER POLE
RACEWAYS AND CIRCUITRY		CIRCUITRY, CONCEALED IN OR UNDER FLOOR	T	TELECOMMUNICATIONS POLE
RACEWAYS AND CIRCUITRY		CIRCUITRY, EXPOSED	TP	TWO-CHANNEL TELECOMMUNCATIONS AND POWER POLE
RACEWAYS AND CIRCUITRY		CIRCUIT HOMERUN. THE NUMBER OF ARROWS INDICATES THE NUMBER OF CIRCUITS. TWO WIRES UNLESS NOTED OTHERWISE; SLASHES INDICATE NUMBER OF WIRES. EQUIPMENT GROUND WIRE IS REQUIRED BUT NOT INDICATED. A 7 INDICATES ISOLATED GROUND CONDUCTOR.	UCP	UNDERCARPET FLAT CONDUCTOR CABLE WIRING SYSTEM, POWER
			UCT	UNDERCARPET FLAT CONDUCTOR CABLE WIRING SYSTEM, TELEPHONE
			UCD	UNDERCARPET FLAT CONDUCTOR CABLE WIRING SYSTEM, DATA
RACEWAYS AND CIRCUITRY		CONDUIT STUB		WIRE LOOP FOR FUTURE CONNECTION, 10'-0" MINIMUM SLACK
RACEWAYS AND CIRCUITRY		CONDUIT/CIRCUIT BREAK AND CONTINUED ELSEWHERE		VERTICAL CONDUIT/CIRCUIT
MISCELLANEOUS		METER AND SOCKET	M	MOTOR
MISCELLANEOUS		LIGHTING AND APPLIANCE PANELBOARD, SURFACE MOUNTED	XX RPS	REMOTE LIGHTING POWER SUPPLY/TRANSFORMER; (XX = WATT RATING)
MISCELLANEOUS		LIGHTING AND APPLIANCE PANELBOARD, FLUSH MOUNTED	XX	TRACK LIGHTING END FEED; (XX = CURRENT LIMITER RATING, IF APPLICABLE)
MISCELLANEOUS		OTHER EQUIPMENT AS NOTED	TR	LOW VOLTAGE CONTROL TRANSFORMER
SWITCHES AND CONTROLS	$	SWITCH, SPST UNLESS INDICATED OTHERWISE, HORSEPOWER RATED WHEN USED IN CONJUNCTION WITH MOTORS		PUSHBUTTON STATION, ONE BUTTON
SWITCHES AND CONTROLS	O	CEILING MOUNTED OCCUPANCY SENSOR, 24V		PUSHBUTTON STATION, TWO BUTTON
SWITCHES AND CONTROLS	O	WALL MOUNTED OCCUPANCY SENSOR, 24V		PUSHBUTTON STATION, THREE BUTTON
SWITCHES AND CONTROLS	P	CEILING MOUNTED PHOTOSENSOR, 24V		SAFETY SWITCH, CHARACTERISTICS AS INDICATED
SWITCHES AND CONTROLS	M	CEILING MOUNTED MOTION SENSOR	I	DISCONNECT SWITCH PROVIDED BY EQUIPMENT MANUFACTURER INTEGRAL WITH EQUIPMENT
SWITCHES AND CONTROLS	TC	AUTOMATIC TIMECLOCK	CB	ENCLOSED CIRCUIT BREAKER, CHARACTERISTICS AS INDICATED
SWITCHES AND CONTROLS		COMBINATION MAGNETIC MOTOR STARTER AND DISCONNECT SWITCH, CHARACTERISTICS AS INDICATED		MAGNETIC MOTOR STARTER

SYMBOL MODIFIERS (INCLUDING COMBINATIONS)

GENERAL SYMBOL MODIFIERS (APPLY TO ALL)

+XX"	MOUNTING HEIGHT TO CENTER OF BOX (OVERRIDES DEFAULT MOUNTING HEIGHT)
ACH	6 INCHES ABOVE COUNTERTOP/BACKSPLASH TO CENTER OF BOX
EM	EMERGENCY
GFCI	GROUND-FAULT CIRCUIT INTERRUPTER (4 TO 6 MILLIAMP TRIP)
H	HORIZONTAL MOUNT
PT	POKE-THROUGH
WP	WEATHERPROOF

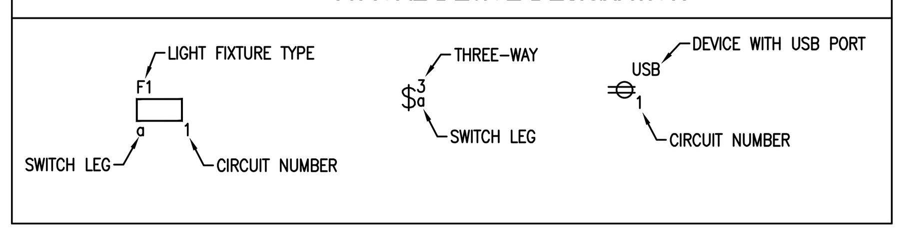
RECEPTACLE MODIFIERS

CH	CLOCK HANGER
CR	CONTROLLED
HG	HOSPITAL GRADE
IG	ISOLATED GROUND
SP	SURGE PROTECTION
SR	SHOW WINDOW. MOUNTED WITHIN 18 INCHES OF TOP OF SHOW WINDOW
TR	TAMPER-RESISTANT
USB	DEVICE WITH USB PORT(S)

SWITCHES AND CONTROLS MODIFIERS

2	DPST
3	THREE-WAY
4	FOUR-WAY
a,b,c...	CONTROL AND LOAD ASSOCIATION
D	DIMMER
DTC	SPDT, CENTER OFF, MAINTAINED CONTACT
DTM	SPDT, CENTER OFF, MOMENTARY CONTACT
F	BOX COVER UNIT, BUSSMANN SSU SERIES
G	GLOW HANDLE (HANDLE GLOWS WHEN SWITCH IS OFF)
K	KEY OPERATED
LV	LOW VOLTAGE
LVD	LOW VOLTAGE DIMMER
M	MANUAL MOTOR CONTROLLER WITH OVERLOAD HEATER
OR	OVERRIDE
OS1	SINGLE-RELAY OCCUPANCY SENSOR
OS2	DUAL-RELAY OCCUPANCY SENSOR
OSD	DIMMING OCCUPANCY SENSOR
OR	OVERRIDE WITH TIMER
P	PILOT LIGHT (PILOT ON WHEN SWITCH IS ON)
SB	SWITCH BANK (GANGED SWITCHES)
T	TIMER

TYPICAL DEVICE DESIGNATION



ELECTRICAL GENERAL NOTES

(GENERAL NOTES ARE PROVIDED AS A BASIC DESCRIPTION OF THE EXTENT AND QUALITY EXPECTED IN THIS PROJECT. IF A CONFLICT EXISTS BETWEEN THESE GENERAL NOTES AND THE REMAINDER OF THE CONTRACT DOCUMENTS THE SPECIFICATIONS, PLANS AND DETAILS WILL GOVERN.)

1. THE ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, 2020 EDITION (NEC), FLORIDA BUILDING CODE, 2023 8TH EDITION (FBC), FLORIDA FIRE PREVENTION CODE 7TH EDITION AND THE CURRENT ADOPTED EDITIONS OF ALL LOCAL CODES, RULES AND ORDINANCES.
2. AS A MINIMUM, ALL EQUIPMENT SHALL MEET APPLICABLE STANDARDS, FOR THE TYPE OF EQUIPMENT AND INTENDED USE, OF THE FOLLOWING:
   A. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
   B. ILLUMINATING ENGINEERS SOCIETY (IES)
   C. AMERICAN SOCIETY FOR TESTING AND MATERIAL (ASTM)
   D. NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATES.(NEMA)
   E. NOTES: THESE STANDARDS ARE SUBORDINATE TO CADES AND STANDARDS SET BY U.L.
3. ALL ELECTRICAL EQUIPMENT, DEVICES, WIRE, SHALL BE LISTED, INTENDED USE, WITH UNDERWRITER'S LABORATORIES INC. (U.L.), WHERE STANDARDS HAVE BEEN ESTABLISHED BY U.L.
4. CONTRACTOR TO PROVIDE ALL LABOR, MATERIALS AND SUPERVISION NECESSARY TO ACCOMPLISH THE WORK AS SHOWN AND/OR NOTED ON THE DRAWINGS.
5. THE CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY ALL CONDITIONS, LOCATIONS, DIMENSIONS AND COUNTS AS SHOWN OR NOTED ON THE DRAWINGS, PRIOR TO SUBMITTING BID.
6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL LABOR, MATERIALS AND SUPERVISION OF THE CONTRACTOR TO ACCOMPLISH THE WORK AS SHOWN AND/OR NOTED ON THE PLANS.
7. ELECTRICAL CONTRACTOR SHALL NOT SCALE DRAWINGS. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT UNLESS NOTED OTHERWISE.
8. IT SHALL BE UNDERSTOOD THAT ALL WORK PERFORMED SHALL BE DONE BY A LICENSED CONTRACTOR AND IN A FIRST - CLASS WORKMANLIKE MANNER. SAID CONTRACTOR SHALL MEET ALL REQUIREMENTS SET FORTH BY ANY LOCAL ORDINANCE AND GOVERNING AUTHORITIES.
9. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED INSURANCE FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
10. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE, UNLESS INDICATED OR SPECIFIED OTHERWISE.
11. IT SHALL NOT BE THE INTENT OF THESE PLANS AND/OR SPECIFICATIONS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. CONTRACTOR SHALL BE EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING TO ORIGINAL CONDITIONS, ANY AND ALL DAMAGES TO BUILDING SURFACES. EQUIPMENT. ETC. CAUSED DURING THE PERFORMANCE OF WORK.
13. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE OR DELAYS AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
14. CONTRACTOR SHALL KEEP ALL AREAS IN WHICH WORK OF BEING PREFORMED, FREE FROM DEBRIS AT ALL TIMES AND SAID AREAS SHALL BE LEFT BROOM CLEAN AT THE END OF EACH WORKING DAY.
15. CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS, AND TESTING COSTS.
16. COORDINATE ALL ELECTRICAL SITE WORK WITH ALL OTHER TRADES CONTRACTORS.
17. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR FOR THE ADVANCE ORDERING OF LONG LEAD ITEMS, AS TO NOT INTERFERE WITH PRODUCTION OR OTHER TRADES RESULTING IN ANY DOWN OR LAG TIME. THE CONTRACTOR SHALL NOT ORDER ANY ITEMS UNTIL APPROVED SHOP DRAWINGS ARE RETURNED TO HIM.
18. ALL CONDUCTORS SHALL BE COPPER, TYPE THHN/THWN EXCEPT WHERE OTHERWISE REQUIRED BY U.L. OR CODES. MINIMUM WIRE SIZE SHALL BE #12 AWG, EXCLUDING CONTROL WIRING. ALUMINUM CONDUCTORS ARE NOT PERMITTED.
19. ALL CONDUIT RUNS ARE SHOWN DIAGRAMMATIC. EXACT ROUTING SHALL BE DETERMINED IN THE FIELD. UNLESS OTHERWISE NOTED.
20. PROVIDE FIRE RETARDANT U.L. APPROVED SEALANT ON ALL PENETRATIONS OF FIRE RATED PARTITIONS, WALLS AND STRUCTURAL SLABS. CONTRACTOR TO VERIFY, PRIOR TO STRUCTURAL SLABS.
21. UNLESS NOTED AS EXISTING, ALL EQUIPMENT, WIRING, DEVICES, ETC. SHALL BE NEW.
22. ALL CIRCUIT BEAKERS SHALL BE INVERSE TIME TYPE (THERMAL MAGNETIC OR SOLID STATE AS REQUIRED BY SPECIFICATION). TWO AND THREE POLE CIRCUIT BREAKERS SHALL BE COMMON TRIP. NO TIE HANDLES PERMITTED.
23. ALL FUSES SHALL BE CURRENT LIMITING, PER U.L. RATED 600V, UON.
   A. NON-TIME DELAY FUSES IN MAIN SWITCHES AND SWITCHES FEEDING PANELS.
   B. TIME DELAY FUSES FOR MOTOR AND A/C CIRCUITS.
24. ALL DISCONNECT SWITCHES SHALL BE SIZED BY NEC REQUIREMENTS TO ACCOMMODATE EQUIPMENT SERVED, INCLUDING REQUIRED FUSES U.O.N. SWITCHES SHALL BE HORSEPOWER RATED FOR MAX. HORSEPOWER, HEAVY DUTY TYPE.
25. CONTRACTOR SHALL VERIFY CIRCUIT PROTECTIVE DEVICE RATING FOR EQUIPMENT PRIOR TO INSTALLATION.
26. CONTRACTOR SHALL PROVIDE A TYPE WRITTEN DIRECTORY OF EACH PANELBOARD. HAND WRITTEN DIRECTORY IS NOT ACCEPTABLE, EXCEPT SHARE AND SPACES SHALL BE HANDWRITTEN IN PENCIL.
27.
   A. WORKING CLEARANCES FOR ELECTRICAL EQUIPMENT SHALL BE IN COMPLIANCE WITH NEC 110.26
   B. THE EXCLUSIVELY DEDICATED SPACE EXTENDING FROM FLOOR TO STRUCTURAL CEILING WITH A WIDTH AND DEPTH OF THE PANELBOARD MUST BE CLEAR OF ALL PIPING, DUCTS, EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES IN ACCORDANCE WITH NEC 408.
29. THE ELECTRICAL CONTRACTOR SHALL FURNISH A COMPLETE SET OF AS-BUILT DRAWINGS, SHOWING ALL CHANGES AND DEVIATIONS TO THE ARCHITECT/ENGINEER PRIOR TO COMPLETION OF THE PROJECT.
30. ARCHITECTURAL AND/OR ENGINEERING EXPENSES THAT ARE INCURRED DUE TO REVISIONS OR SUBSTITUTIONS REQUESTED BY THE CONTRACTOR SHALL BE PAID FOR BY THE CONTRACTOR.

SCOPE OF WORK

THE SCOPE OF THIS PROJECT CONSIST ON THE CONSTRUCTION OF A NEW COVERED EXTERIOR CORRIDOR IN A SCHOOLS LOCATED IN MIAMI BEACH. THE ELECTRICAL WORK INCLUDES THE INSTALLATION OF RECEPTACLES AND LIGHT FIXTURES ALONG THE NEW CORRIDOR. THE NEW ELECTRICAL INSTALLATION WILL BE CONNECTED TO AN EXISTING ELECTRICAL PANEL.

ABBREVIATIONS

AMPERES	AMP
AUDIO ENHANCEMENT	AE
ABOVE FINISHED CEILING	AFC
ABOVE FINISHED FLOOR	AFF
ABOVE FINISHED GRADE	AFG
AMPERES INTERUPTING CAPACITY	AIC
AMERICAN WIRE GAUGE	AWG
BELOW FINISHED CEILING	BFC
BELOW FINISHED GRADE	BFG
CONDUIT	C
CABINET	CAB
CIRCUIT	CKT
CEILING	CLG
CENTERLINE	CL
CURRENT TRANSFORMERS	CT's
COPPER	CU
DISCONNECT(ING)	DISC
DRAWING(S)	DWG
EACH	EA
EXISTING	E
EXHAUST FAN	EF
ELECTRICAL METALLIC TUBING	EMT
EQUIPMENT	EQUIP
ELECTRIC UNIT HEATER	EUH
ELECTRIC WATER COOLER	EWC
ELECTRIC WATER HEATER	EWH
EXHAUST	EXH
EXISTING	EXIST
EXPLOSION PROOF	EXP
FIRE ALARM	FA
FULL LOAD AMPERES	FLA
FLUORESCENT	FLUOR
GROUND FAULT CIRCUIT INTERRUPTER	GFCI
GROUND FAULT PROTECTION	GFP
GROUND	GND
HEIGHT	HGT
HIGH INTENSITY DISCHARGE	HID
HIGH PRESSURE SODIUM	HPS
HAND-OFF-AUTOMATIC	HOA
HORSEPOWER	HP
HEATING/VENTILATING/AIR CONDITIONER	HVAC
HIGH VOLTAGE	HV
INCANDESCENT	INC
JUNCTION BOX	JB
KILO-VOLTS	kV
KILO-VOLTS-AMPERES	kVA
KILO-VOLTS-AMPERES REACTIVE	kVAR
KILO-WATTS	kW
KILO-WATT-HOURS	kWH
LIGHTING	LTG
METER	m
MILLIMETER	mm
MAXIMUM	MAX
MAIN CIRCUIT BREAKER	MCB
MOTOR CONTROL CENTER	MCC
MOTOR CIRCUIT PROTECTOR	MCP
MANUFACTURER	MFR
METAL HALIDE	MH
MINIMUM	MIN
MISCELLANEOUS	MISC
MOTOR	MTR
MOUNTED	MTD
MOUNTING	MTG
NATIONAL ELECTRICAL CODE	NEC
PANEL	PNL
PULL STATION INSIDE	PSI
POLYVINYL CHLORIDE	PVC
RECEPTACLE	REC
RELOCATE	RL
RIGID GALVANIZED STEEL	RGS
TELEPHONE	TEL
TYPICAL	TYP
UNLESS OTHERWISE NOTED	UON
VOLTS	V
VOLT-AMPERES	VA
VARIABLE FREQENCY CONTROLLER	VFC
VAPOR PROOF	VP
WATTS	W
WEATHER PROOF	WP
TRANSFORMER	XFMR

SHEET INDEX

ELECTRICAL DRAWING

E-1	ELECTRICAL COVER SHEET.
E-2	ELECTRICAL SITE PLAN.
E-3	PHOTOMETRIC CALCULATION NORMAL POWER

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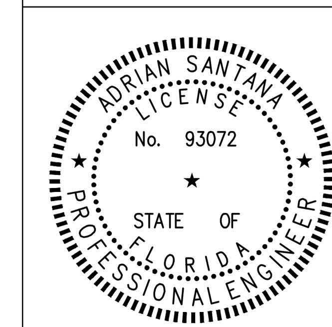

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PROJECT INFORMATION:

NAME: Doral Soccer Field

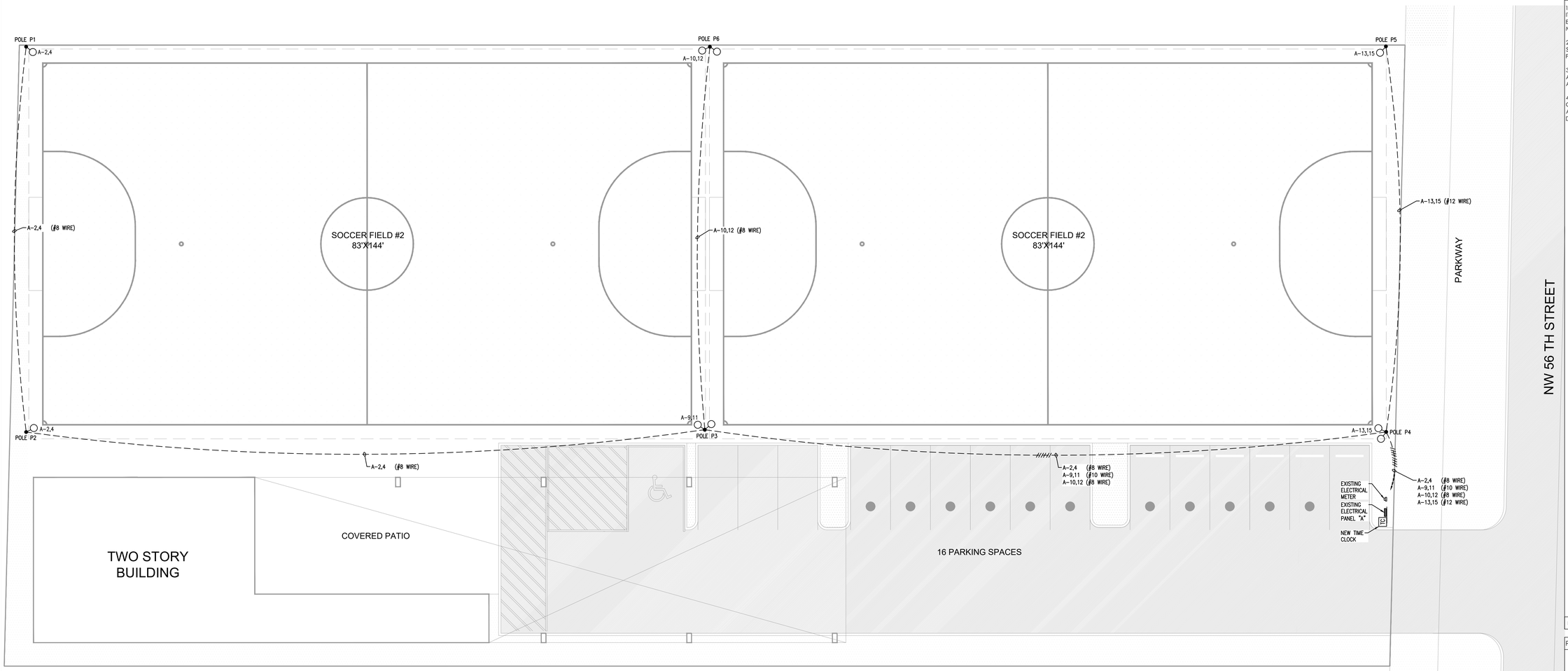
ADDRESS: 8234 NW 56 ST
Doral, FL 33166

CLIENT: SixSides Architecture Inc
1108 Kane Concourse, Suite 220
Bay Harbor Islands, FL 33154

SHEET INFORMATION:

TITLE: Electrical Cover Sheet

SCALE AT 24x36:	DATE:	DRAWN:	CHECKED:
3/32"=1'-0"	10/10/25	A.S.	A.S.
PROJECT NO:	DRAWING NO:		REVISION:
25132	E-1		



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PROFESSIONAL SEAL:

ADRIAN SANTANA LICENSE No. 93072 STATE OF FLORIDA PROFESSIONAL ENGINEER

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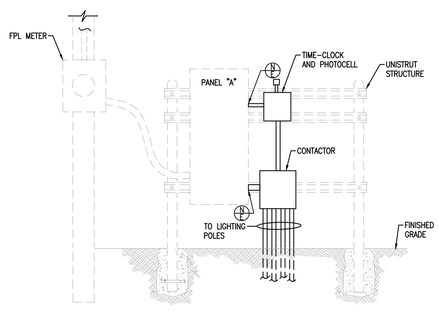
ADRIAN SANTANA

LEGEND

- EXISTING
- NEW WORK
- NEW TO EXISTING CONNECTION

RISER DIAGRAM GENERAL NOTES

1. EXISTING ELECTRICAL RISER DIAGRAM AS SHOWN IS FOR REFERENCE ONLY AND BASED ON LIMITED ON-SITE OBSERVATIONS. CONTRACTOR MUST INSPECT THE EXISTING CONDITIONS AT THE JOB SITE PRIOR TO BID IN ORDER TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND IN ORDER TO AVOID CONFLICTS.



PANEL: A | FED FROM: ELECTRICAL METER | CONDITION: EXISTING

VOLTAGE: 240/120V | MAIN TYPE: MCB | ENCLOSURE TYPE: NEMA 3R

PHASES, WIRES: 1φ,3W | MAIN O.C. DEVICE: 150 A | MOUNTING: SURFACE

BUS RATING: 200 A | AIC RATING (A): 22000

NOTES	CKT NO	DESCRIPTION	WIRE AWG	EQ. GND.	BREAKER	LOAD	PHASE	LOAD	BREAKER	EQ. GND.	WIRE AWG	DESCRIPTION	CKT NO	NOTES
	1	TIMECLOCK	#12	#12	20/1	0	A	1320	20/2	#10	#8	POLE 1 & 2	2,4	
EXST	3	EXISTING LOAD	#12	#12	20/1	0	B	1320	20/2	#10	#8	POLE 1 & 2	2,4	
EXST	5	EXISTING LOAD	#12	#12	20/1	0	A	0	20/2	#12	#12	EXISTING LOAD	6,8	EXST
EXST	7	EXISTING LOAD	#12	#12	20/1	0	B	0	20/2	#12	#12	EXISTING LOAD	6,8	EXST
	9,11	POLE 3	#10	#10	20/2	1320	A	1320	20/2	#10	#8	POLE 6	10,12	
	9,11	POLE 3	#10	#10	20/2	1320	B	1320	20/2	#10	#8	POLE 6	10,12	
	13,15	POLE 4 & 5	#12	#12	20/2	1650	A	0	----/----			SPACE	14	
	13,15	POLE 4 & 5	#12	#12	20/2	1650	B	0	----/----			SPACE	16	
	17	SPACE			----/----	0	A	0	----/----			SPACE	18	

TOTAL CONNECTED LOAD PER PHASE (VA)	
PHASE A	PHASE B
5610	5610

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Lighting	11.2	1.25	14.0
TOTAL:	11.2		14.0
LOAD (AMPS):	46.8		58.4

DEMAND LOAD	14.0 KVA
SPARE CAPACITY	22.0 KVA
SPARE CAPACITY	91.6 AMPS
SPARE CAPACITY	61 %
PHASE BALANCE:	
A TO B	100 %

GENERAL NOTES:
A. EXISTING CIRCUIT DESCRIPTION ON PANEL SCHEDULE IS BASED ON VISUAL ON-SITE VERIFICATION OF EXISTING PANEL BOARD DIRECTORIES WHERE AVAILABLE PRIOR DEMOLITION. THE CONTRACTOR MUST CONFIRM THE INVOLVED CIRCUITS' IDENTIFICATION AND LOCATION BEFORE PROCEED INTO DISCONNECT ANY EQUIPMENT.
B. PROVIDE A HANDLE TIE TO INTERLOCK ALL CIRCUIT BREAKERS WHICH COMPRISE A MULTIWIRE BRANCH CIRCUIT.
C. PROVIDE UPDATED TYPED CIRCUIT DIRECTORY IN COMPLIANCE WITH NEC 408.4. AFTER ALL ELECTRICAL WORK IS COMPLETE.

SPECIFIC NOTES:
EXST: EXISTING LOAD. BRANCH CIRCUIT WIRE SIZES INDICATED ARE THE MINIMUM SIZES REQUIRED BASED ON THE EXISTING CIRCUIT BREAKER RATING. FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID. IF THE EXISTING WIRES AND/OR CIRCUIT BREAKER DO NOT MEET THE MINIMUM CODE REQUIREMENTS, MAKE ALL NECESSARY MODIFICATIONS TO BRING THE EXISTING INSTALLATION INTO FULL CODE COMPLIANCE.

GENERAL NOTES

1. ALL OUTDOOR INSTALLATIONS SHALL COMPLY WITH NEC 110.12, 110.28 AND 358.12
2. ALL EQUIPMENT, DEVICES, AND LUMINAIRES SHALL BE SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED. EQUIPMENT MOUNTED OUTDOORS SHALL BE NEMA 3R. DEVICES MOUNTED IN DAMP OR WET LOCATIONS SHALL BE WEATHERPROOF. RECEPTACLES RATED 15- OR 20-AMPS AND 120 VOLTS WHICH ARE LOCATED IN DAMP OR WET LOCATIONS SHALL BE GFCI PROTECTED AND EQUIPPED WITH A SUITABLE WEATHERPROOF COVERPLATE (WHILE-IN-USE IN WET LOCATIONS).
3. ALL ELECTRICAL SYSTEMS, EQUIPMENT, AND COMPONENTS, INCLUDING BUT NOT LIMITED TO SERVICE EQUIPMENT, PANELS, DISCONNECTS, AND OUTLETS; SHALL BE INSTALLED AT OR ABOVE THE DESIGN FLOOD ELEVATION IN ACCORDANCE WITH THE FLORIDA BUILDING CODE AND THE NATIONAL ELECTRICAL CODE.
4. POLE LIGHTING FIXTURES AREA SHALL BE CONTROLLED VIA TIMECLOCK AND PHOTOCELL. EACH SOCCER FIELD AND THE PARKING AREA SHALL BE CAPABLE OF INDEPENDENT OPERATION. COORDINATE FINAL CONTROL SCHEDULE AND OPERATING REQUIREMENTS WITH OWNER PRIOR TO INSTALLATION.

Site Lighting Wire Size Calculations

Circuit Number	Conductor Segment	Horizontal Distance	Luminaire Load	Conductor Size	Voltage Drop on Segment	Percent VD on Segment	Total VD to Point	Total Percent VD to Point
A-2,4	1	300 FT	1320 W	#8 AWG	5.33 Volt	2.22%	5.33 Volt	2.22%
	2	100 FT	1320 W	#8 AWG	1.81 Volt	0.76%	7.14 Volt	2.98%
A-9,11	1	165 FT	2640 W	#10 AWG	6.52 Volt	2.72%	6.52 Volt	2.72%
A-10,12	1	250 FT	2640 W	#8 AWG	6.21 Volt	2.59%	6.21 Volt	2.59%
A-13,15	1	20 FT	1960 W	#12 AWG	1.62 Volt	0.67%	1.62 Volt	0.67%
	2	100 FT	1320 W	#12 AWG	3.26 Volt	1.36%	4.88 Volt	2.03%

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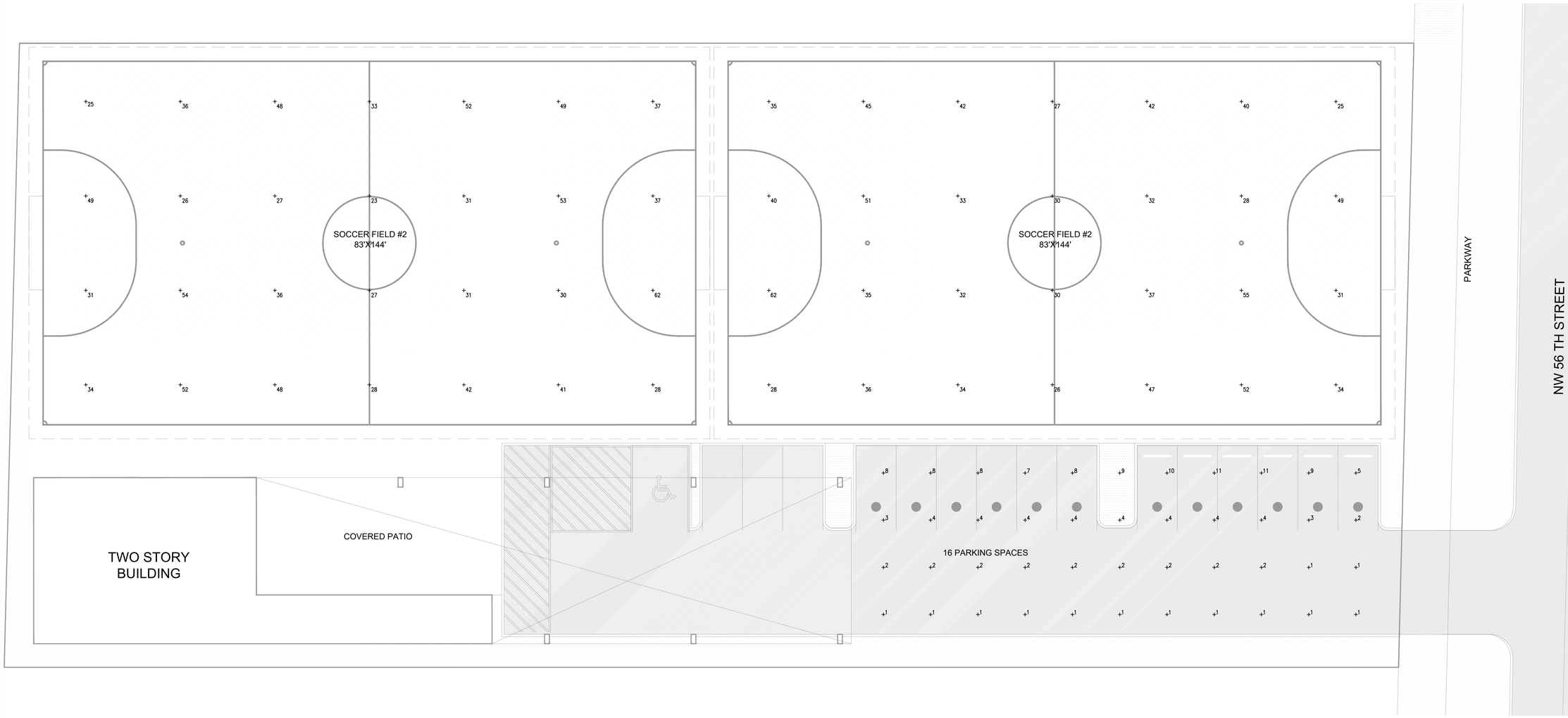

TOTAL Luminaire Schedule				
Qty	Description	Tag	Luminaire Watts	Total Watts
6	GC 650 N5-3_3	GEN 4 SMALL	660	3300
3	GC 650 N5-3_3	GEN 4 SMALL	660	1980
8	GC 650 N4W-33	GEN 4 SMALL	660	5280

Calculation Summary									
Label	Units	Avg	Max	Min	Max/Min	CV	UG	# Pts	Pt Spacing
PARKING	Fc	10.5	38	1	38.00	0.82	3.18	44	10x10
Soccer 1	Fc	37.8	56	25	2.24	0.25	2.21	28	20x20
Soccer 2	Fc	38.1	56	25	2.24	0.25	2.21	28	20x20
SPILL @ 100ft	Fc	0.130	0.21	0.07	3.0000	N.A.	N.A.	70	20x20

Watts Per Pole	
Label	Watts
P1	1.320
P2	1.320
P3	2.640
P4	1.980
P5	1.320
P6	2.640
TOTAL	11.220

Luminaire Schedule				
Project: P1 40' GTP				
Qty	Description	Tag	Luminaire Watts	Total Watts
1	GC 650 N5-3_3	GEN 4 SMALL	660	660
1	GC 650 N4W-33	GEN 4 SMALL	660	660

Luminaire Schedule				
Project: P2 40' GTP				
Qty	Description	Tag	Luminaire Watts	Total Watts
1	GC 650 N5-3_3	GEN 4 SMALL	660	660
1	GC 650 N4W-33	GEN 4 SMALL	660	660

Luminaire Schedule				
Project: P3 40' GTP				
Qty	Description	Tag	Luminaire Watts	Total Watts
2	GC 650 N5-3_3	GEN 4 SMALL	660	1320
2	GC 650 N4W-33	GEN 4 SMALL	660	1320

Luminaire Schedule				
Project: P4 40' GTP				
Qty	Description	Tag	Luminaire Watts	Total Watts
1	GC 650 N5-3_3	GEN 4 SMALL	660	660
1	GC 650 N5-3_3	GEN 4 SMALL	660	660
1	GC 650 N4W-33	GEN 4 SMALL	660	660

Luminaire Schedule				
Project: P5 40' GTP				
Qty	Description	Tag	Luminaire Watts	Total Watts
1	GC 650 N5-3_3	GEN 4 SMALL	660	660
1	GC 650 N4W-33	GEN 4 SMALL	660	660

Luminaire Schedule				
Project: P6 40' GTP				
Qty	Description	Tag	Luminaire Watts	Total Watts
2	GC 650 N5-3_3	GEN 4 SMALL	660	1320
2	GC 650 N4W-33	GEN 4 SMALL	660	1320

Notes:

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REV:	DESCRIPTION:	BY:	DATE:

PROFESSIONAL SEAL:

ADRIAN SANTANA LICENSE No. 93072 STATE OF FLORIDA PROFESSIONAL ENGINEER

DATE:10/10/25

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ADRIAN SANTANA ON THE DATE ADJACENT TO THE SEAL.

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ADRIAN SANTANA

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PROJECT INFORMATION:

NAME: Doral Soccer Field

ADDRESS: 8234 NW 56 ST
Doral, FL 33166

CLIENT: SixSides Architecture Inc
1108 Kane Concourse, Suite 220
Bay Harbor Islands, FL 33154

SHEET INFORMATION:

TITLE: PHOTOMETRIC CALCULATION NORMAL POWER

SCALE AT 24x36:	DATE:	DRAWN:	CHECKED:
3/32"=1'-0"	10/10/25	A.S.	A.S.

PROJECT NO:	DRAWING NO:	REVISION:
25132	E-3	