### **ELECTRICAL SPECIFICATIONS**

- MATERIALS AND INSTALLATION, AS A MINIMUM, ARE TO CONFORM WITH THE ADOPTED EDITION OF THE NATIONAL ELECTRIC CODE NEC 2011, FBC 2014 (5TH EDITION), FFPC 2014, NFPA 72 2010, LOCAL CODES, ORDINANCES, INCLUDING ALL AMENDMENTS TO THE N.E.C.. EQUIPMENT, WHERE APPLICABLE, WILL BE LISTED WITH THE UNDERWRITERS LABORATORIES, INC. QUALITY AND WORKMANSHIP ESTABLISHED BY DRAWINGS AND SPECIFICATIONS ARE NOT TO BE REDUCED BY THE ABOVE MENTIONED CODES.
- TO THE BEST OF OUR KNOWLEDGE AND ABILITY THESE DRAWINGS REPRESENT AN ACCURATE PRESENTATION OF EXISTING CONDITIONS BASED UPON CAREFUL EVALUATION OF OBSERVED CONDITIONS TO THE EXTENT REASONABLY POSSIBLE. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND IMEDIATELY NOTIFY ENGINEER WITH ANY DISCREPANCY.
- BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF WORK. THE SUBMISSION OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION BEEN MADE,
- ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST-CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM IS TO BE FULLY OPERABLE AND ACCEPTANCE OF THIS SYSTEM BY THE ENGINEER MUST BE A CONDITION

OF THE SUB CONTRACT.

- ALL WORK TO BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- CONTRACTOR TO GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE.
- CORRECTION OF ANY DEFECTS TO BE COMPLETED WITHOUT ADDITIONAL CHARGE AND TO INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
- ALL REQUIRED INSURANCE TO BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY OF PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- CONTRACTOR TO PAY FOR ALL PERMITS, FEES INSPECTIONS AND TESTINGS.
- ELECTRICAL INSTALLATION TO MEET ALL STANDARD REQUIREMENTS OF LOCAL POWER AND TELEPHONE COMPANIES. ELECTRICAL CONTRACTOR SHALL CONTACT LOCAL POWER AND TELEPHONE COMPANIES PRIOR TO START OF CONSTRUCTION.
- ALL WIRING SHALL BE IN CONDUIT UNLESS OTHERWISE NOTED, MINIMUM WIRE SIZE SHALL BE #12 AWG. EXCLUDING CONTROL WIRING. ALL CONDUCTORS SHALL BE COPPER WITH THWN/THHN INSULATION. CONDUCTORS #10 AND SMALLER MAY BE SOLID; ALL THOSE #8 AND LARGER TO BE STRANDED.
- ALL UNDERGROUND RACEWAYS SHALL BE MINIMUM 3/4", GALVANIZED RIGID STEEL CONDUIT OR SCHEDULE 40 PVC. ALL OTHER RACEWAYS TO COMPLY WITH GOVERNING CODES. WHERE RIGID STEEL IS USED, IT SHALL BE COMPLETELY COATED WITH AN ALKALI AND RUST RESISTANT BITUMASTIC PAINT, COPPER NO. 50, AND THREADS SHALL BE COATED WITH ZINC CHROMATE. RIGID STEEL SHALL ALSO BE USED WHEN CONDUIT IS EXPOSED TO EXTERIOR ENVIRONMENT SUCH AS EXTERIOR OF BUILDING OR WHERE IT IS EXPOSED AND SUBJECT TO DAMAGE, INSIDE OF BUILDING.
- OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS, AND BE OF SPECIAL CONSTRUCTION FOR OTHER CLASSIFIED AREAS. ALL BOXES SHALL BE RECESSED (FLUSH) IN WALLS OR CEILINGS WHENEVER POSSIBLE.
- DISCONNECT SWITCHES SHALL BE H.P. RATED, GENERAL DUTY, QUICK-MAKE, QUICK-BREAK TYPE. ENCLOSURES SHALL BE AS REQUIRED BY N.E.C. AND LOCATION (WEATHERPROOF, EXPLOSION PROOF, ETC.). ENGRAVED LAMINATED PLASTIC IDENTIFICATION PLATES SHALL BE FURNISHED AND INSTALLED ON ALL DISCONNECT SWITCHES, CONTACTORS AND STARTERS.
- . ALL FUSES FOR SAFETY SWITCHES SHALL BE DUAL ELEMENT, CARTRIDGE TYPE. FUSES SHALL BE THOSE MANUFACTURED BY EITHER BUSSMAN OR LITTLEFUSE. THE CONTRACTOR SHALL FURNISH TO THE OWNER ONE SPARE FUSE FOR EACH SIZE AND TYPE OF FUSE INSTALLED. FUSES 600 AMPS OR LESS SHALL BE CLASS RK1, TYPICAL UNLESS OTHERWISE NOTED. FUSES OVER 600 AMPS SHALL BE CLASS L.
- ALL GENERAL PURPOSE SWITCHES AND RECEPTACLES SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER, CATALOG NUMBERS LISTED ARE LEVITON: HOWEVER, COMPARABLE DFVICES BY PASS & SEYMOUR, BRYANT, OR ARROW HART WILL BE ACCEPTED. COLOR OF DEVICES AND PLATES SHALL BE WHITE UNLESS DICTATED OTHERWISE BY
- IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM, AND PROVIDE ALL NECESSARY DEVICES AND COMPONENTS FOR EQUIPMENT BE PLACED IN PROPER WORKING ORDER.
- A SEPARATE, GREEN TYPE THWN COPPER GROUND CONDUCTOR SHALL BE RUN FROM GROUND LUG OF EACH GROUNDED RECEPTACLE TO AN APPROVED CONNECTION INSIDE THE ENCLOSING STEEL OUTLET BOX. DEVICE MOUNTING SCREWS SHALL NOT BE INSTALLED IN EVERY CONDUIT AND RACEWAY AND SECURELY BONDED IN AN APPROVED GROUNDING TERMINAL AT BOTH ENDS OF THE RUN. THE GROUNDING CONDUCTOR SHALL BE SIZED IN ACCORDANCE WITH TABLE 250-122 OF THE N.E.C. CONTRACTOR SHALL SIZE CONDUIT TO ACCOMMODATE ADDITIONAL CONDUCTOR.
- 8. LOAD DATA IS BASED ON INFORMATION GIVEN TO THE ENGINEER AT THE TIME OF DESIGN. VERIFY ALL EQUIPMENT NAMEPLATE RATINGS BEFORE ORDERING.
- CIRCUITS SHOWN ON PLANS ARE TO DETERMINE LOAD DATA AND PANEL SIZES. THE CONTRACTOR IS TO PROVIDE CIRCUITS AND ROUTING OF CONDUITS TO SUIT JOB
- O. FURNISH AND INSTALL DISCONNECT SWITCHES, WIRING, AND CONNECTIONS ON AIR CONDITIONING SYSTEM AS SHOWN ON PLANS. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT AND WIRING FROM C.U.TO A.H.U. ,TERMINATION SHALL BE PERFORMED BY
- ALL FLUORESCENT LIGHT FIXTURES SHALL HAVE IN LINE FUSING AND ENERGY SAVING BALLASTS. (ONLY REQUIRED IN MIAMI DADE COUNTY)
- 2. ALL SWITCHGEAR, PANELS, STARTERS, CONTACTORS ETC., SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER, THE SYSTEM DESIGN IS BASED ON SQUARE "D"; HOWEVER, COMPARABLE EQUIPMENT BY G.E. & SIEMENS ONLY WILL BE ACCEPTABLE. TANDEM AND HALF-SPACE CIRCUIT BREAKERS SHALL NOT BE USED.
- PROVIDE IDENTIFICATION FOR ALL PANELS, CABINETS, ENCLOSURES, DISCONNECTS & TRANSFORMERS USING ENGRAVED NAMEPLATES, WHITE LETTERING ON A BLACK BACKGROUND. NAMEPLATES SHALL IDENTIFY PANEL DESIGNATION (NAME,) VOLTAGE, PHASI & WIRE CONFIGURATION. PROVIDE TYPEWRITTEN DIRECTORIES UNDER PLASTIC COVER FOR ALL PANEL BRANCH CIRCUITS, CLEARLY INDICATING AREA AND TYPE OF LOAD SERVED BY EACH BRANCH CKT PROTECTIVE DEVICE, INCLUDING SPARES. HAND PRINTED WILL NOT
- . ENGRAVED, LAMINATED PLASTIC IDENTIFICATION PLATES SHALL BE FURNISHED AND INSTALLED ON ALL PANELS AND SWITCHGEAR. PLATES SHALL BE AFFIXED TO FRONT OF PANELS, INDICATING PANEL NAME, VOLTAGE AND AMPERAGE.
- . ALL UNDERGROUND PVC CONDUIT RUNS SHALL HAVE RIGID STEEL ELBOWS AND RIGID STEEL SECTIONS AT SLAB PENETRATIONS WHERE SUBJECT TO POSSIBLE DAMAGE. WHERE RIGID STEEL IS USED, IT SHALL BE COMPLETELY COATED WITH AN ALKALI AND RUST-RESISTANT BITUMASTIC PAINT, COPPER NO. 50, AND THREADS SHALL BE COATED
- . THE ELECTRICAL CONTRACTOR SHALL MEET AND COORDINATE WITH THE LOCAL POWER COMPANY AT THE SITE PRIOR TO CONSTRUCTION. AT THAT TIME, THE CONTRACTOR SHALL COORDINATE ALL RELATED WORK WITH THE UTILITY COMPANY'S RESPONSIBILITIES TO MEET THE OWNER'S SCHED.
- . ALL ELECTRICAL CONDUCTORS SHALL BE INSTALLED IN AN APPROVED RACEWAY, EMT IMC, RIGID GALVANIZED CONDUIT OR SCHEDULE 40 P.V.C. THERE SHALL BE NO TYPE 'NM' AND ELECTRICAL NON-METALLIC TUBING USED FOR BRANCH CIRCUITING. MAXIMUM NUMBER OF 120V CIRCUITS ALLOWED IN A COMMON CONDUIT SHALL BE SIX (6). "MC TYPE CABLE SHALL NOT BE USED AS HOME RUNS. THE CONTRACTOR SHALL STRICTLY CONFORM TO THE N.E.C. REQUIREMENTS OF DERATING FOR CONDUCTOR AMPACITY AND
- NIDLICTORS SHALL RE COLOR CODED AS FOLLOWS

26. CUNDUCTURS SE	TALL BE COLOR CODED AS FOL	LLOWS:	
208V SYSTEM	240V (HIGH LEG) SYSTEM	480V SYSTEM	PHASE SEQUENCE
NEUTRAL - WHITE	NEUTRAL - WHITE	NEUTRAL - WHITE	ABC, TOP TO BOTTOM
PHASE A - BLACK	PHASE A - BLACK	PHASE A - BROWN	LEFT TO RIGHT,
PHASE B — RED	PHASE B - ORANGE	PHASE B - PURPLE	FRONT TO BACK
PHASE C - BLUE	PHASE C - BLUE	PHASE C - YELLOW	
GRD.CON - GREEN	GRD.CON - GREEN	GRD.CON	- GREEN

- 29. CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL CONDUIT PENETRATIONS MADE THROUGH FIRE RATED WALLS, CEILINGS, SLABS, ETC. PENETRATION SEALS SHALL BE PER
- CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF CONTRACT DRAWINGS AT JOB SITE WITH COLORED MARKINGS INDICATING PROGRESS OF WORK. THIS SET OF CONTRACT DRAWINGS IS TO BE SEPARATE FROM AND IN ADDITION TO CONTRACTOR'S CONSTRUCTION SET. EVERY UNIT OF EQUIPMENT, DEVICE, CONDUIT AND WIRE IS TO MARKED WHEN INSTALLED. USE GREEN TO INDICATE INSTALLATION AS SHOWN ON DRAWINGS AND USE RED TO INDICATE FIELD CHANGES. UPON COMPLETION OF WORK, THIS SET OF CONTRACT DRAWINGS IS TO BE TURNED OVER TO, AND BECOME PROPERTY OF THE ELECTRICAL
- IF ELECTRICAL CONTRACTOR HAS QUESTIONS, OR IN THEIR OPINION FINDS OMISSIONS OR ERRORS ON ELECTRICAL DOCUMENTS, IT IS THEIR RESPONSIBILITY TO BRING THIS TO THE ATTENTION OF THE ELECTRICAL ENGINEER IMMEDIATELY. IF ELECTRICAL CONTRACTOR PROCEEDS WITH ANY CHANGES TO THE CONTRACT DOCUMENTS, WITHOUT WRITTEN PRIOR APPROVAL FROM THE ELECTRICAL ENGINEER, CONTRACTOR WILL NOT BE COMPENSATED.

	PANEL SCHEDULE	L				NEW															
	Rated Voltage:	120/208	V			3PH,4W				Man	ufacturer:		SQUARE I	OR EQUAL			Mounti	ng:	FLUSH		
	Rated Amps: (Cu bus)	150A				SPACES:		42		Loca	tion:		SEE FLOO	R PLAN			Type:		NEMA 1		
	Main:	MCB								Proje	ect No:		1626.00				A.I.C:		10K		
								KVA					KVA				,				
NOTE	CIRCUIT DESIGNATION	O.C.P.	AWG	MAX. DIST.(ft)	VOLT DROP	RCPT	LTG/CONT	KITCHEN	MOTOR/APP.	PH	RCPT	LTG/CONT	KITCHEN	MOTOR/APP.	MAX. DIST.(ft)	VOLT DROP	AWG	O.C.P.	CIRCUIT DESIGNATION	N	NOTE
1	RECEPTACLES ART ROOM	20/1	12	183	3%	0.72				Α	0.36				366	3%	12	20/1	RECEPT. RESTROOM #7	2	
3	RECEPT. CLASSROOM #2	20/1	12	183	3%	0.72				В	0.72				183	3%	12	20/1	RECEPT. RESTROOM #1	4	
5	RECEPT. CLASSROOM #1	20/1	12	183	3%	0.72				С	0.18				731	3%	12	20/1	RECEPTACLE LOBBY	6	
7	RECEPT. RESTROOM #2	20/1	12	244	3%	0.54				Α	0.60				219	3%	12	20/1	RECEPTACLES RECEPTION	8	
9	RECEPT. RESTROOM #3	20/1	12	88	3%	1.50				В	1.50				88	3%	12	20/1	RECEPTACLES RECEPTION	10	
11	RECEPT. RESTROOM #4	20/1	12	183	3%	0.72				С				1.50	88	3%	12	20/1	KITCHEN SMALL APPLIANCE	12	
13	RECEPT. RESTROOM #5	20/1	12	183	3%	0.72				Α				1.50	88	3%	12	20/1	KITCHEN SMALL APPLIANCE	14	
15	RECEPT. CLASSROOM #4	20/1	12	183	3%	0.72				В				1.10	120	3%	12	20/1	KITCHEN REFRIGERATOR	16	
17	RECEPT. CLASSROOM #5	20/1	12	183	3%	0.72				С				1.40	94	3%	12	20/1	KITCHEN DISHWASHER	18	
19	RECEPT. CLASSROOM #6	20/1	12	183	3%	0.72				Α				1.40	94	3%	12	20/1	WASHER	20	
21	RECEPT. CLASSROOM #7	20/1	12	183	3%	0.72				В	1.10				120	3%	12	20/1	ROOF SERVICE RECEPTACLES	22	
23	DRINKING FOUNTAIN	20/1	12	263	3%				0.50	С				2.50	87	3%	10	30/2	DRYER	24	
25	RECEPT. CLASSROOM #8	20/1	12	146	3%	0.90				Α				2.50						26	
27	RECEPT. CLASSROOM #9	20/1	12	146	3%	0.90				В		0.90			146	3%	12	20/1	LIGHTS IT / LAUDRY /RR FANS	28	
29	RECEPT. CLASSROOM #10	20/1	12	146	3%	0.90				С				2.25	96	3%	10	30/2	ELECTRIC WATER HEATER	30	
31	OFFICE RECEPTACLE	20/1	12	219	3%	0.60				Α				2.25						32	
33	IT / SERVER	20/1	12	88	3%				1.50	В				0.60	219	3%	12	20/1	MOTORIZED DAMPERS	34	
35	IT / T.T.B.	20/1	12	366	3%	0.36				С				0.60	219	3%	12	20/1	MOTORIZED DAMPERS	36	
37	FACP	20/1	12	219	3%				0.60	Α								20/1	SPARE	38	
39	SPARE	20/1								В								20/1	SPARE	40	
41	SPARE	20/1								С								20/1	SPARE	42	
	SUBTOTAL C	ONNECTE	D LOAD:			12.2	0.0	0.0	2.6		4.5	0.9	0.0	17.6			: SUBT	OTAL COI	NNECTED LOAD		
											PHASE:	Α	В	С	TOTAL						

	0.0	2.0		4.5	0.5	0.0	17.0			. SOBIOTAL CO	MILCIED LOAD		1
			F	PHASE:	Α	В	С	TOTAL					
(	CONTINUOU	S & LARGEST	MOTOF	R @ 25%:	0.0	0.2	0.0	0.2		note 1	verify max. O.C.P.D. with namepla	ite	
	CONNEC	TED MOTOR I	LOADS	@ 100%:	8.3	3.2	8.8	20.2		note 2	lockable circuit breaker		
	CONNE	CTED LIGHTING	G LOAD	@100%:	0.0	0.9	0.0	0.9		note 3	RUN THRU LIGHTING RELAY	PAN	ŒL
	CONNEC	TED KITCHEN	LOADS	@ 65%::	0.0	0.0	0.0	0.0		note 4	G.F.C.I. type circuit breaker		
	RE	CEPTACLE CC	OMPUTE	D LOAD:	5.2	7.9	3.6	16.6		note 5	HACR C.B.		
	TC	OTAL COMP	UTED	LOAD:	13.4	12.2	12.4	38.0	KVA	note 6	non concurrent load		
					112	102	103	105.4	Α	note 7	Provide isolated ground		

note 8 Provide lockable type circuit breaker

					MAX.	VOLT										MAX.	VOLT				TT	
NOTE		CIRCUIT DESIGNATION	O.C.P.	AWG	DIST.(ft)	DROP	RCPT	LTG/CONT	KITCHEN	MOTOR/APP.	PH	RCPT	LTG/CONT	KITCHEN	MOTOR/APP.	DIST.(ft)	ı	AWG	O.C.P.	CIRCUIT DESIGNATION		NOTE
	1									2.50	Α	5.16	0.00	0.00	8.25						2	
1,5	3	RTU-1	20/3	12	281	3%				2.50	В	7.88	0.90	0.00	3.20	223	3%	6	60/3	PANEL "L"	4	
	5									2.50	С	3.60	0.00	0.00	8.75					THRU 45KVA TRANSFORMER	6	
	7									2.50	Α				3.60						8	
1,5	9	RTU-2	20/3	12	281	3%				2.50	В				3.60	195	3%	12	20/3	RTU-4	10	1,5
	11									2.50	С				3.60						12	
	13							3.60			Α				2.10						14	
1,5	15	RTU-3	20/3	12	195	3%		3.60			В				2.10	334	3%	12	15/3	RTU-5	16	1,5
	17							3.60			С				2.10						18	
	19	CORRIDOR LIGHTS / EMERGENCY	20/1	12	484	3%		1.45			Α				3.60						20	
	21	CORRIDOR COVE LIGHTING	20/1	12	281	3%		2.50			В				3.60	195	3%	12	20/3	RTU-6	22	1,5
	23	SOUTH WING LTS / EMERGENCY	20/1	12	438	3%		1.60			С				3.60						24	
	25	WEST WING LTS / EMERGENCY	20/1	12	260	3%		2.70			Α								20/1	SPARE	26	
	27	EAST WING LTS / EMERGENCY	20/1	12	369	3%		1.90			В								20/1	SPARE	28	
6	29	SIGN	20/1	12	585	3%		1.20			С								20/1	SPARE	30	
	31	SPARE	20/1								Α								20/1	SPARE	32	
	33	SPARE	20/1								В									SPACE	34	
	35	SPARE	20/1								С									SPACE	36	
	37	SPARE	20/1								Α									SPACE	38	
	39	SPACE									В									SPACE	40	
	41	SPACE									С									SPACE	42	
		SUBTOTAL CO	NNECTED	LOAD:			0.0	22.2	0.0	15.0		16.6	0.9	0.0	48.1			: SUBT	OTAL CON	NECTED LOAD		
											PHASE:		В	С	TOTAL							
CONNECTED LOAD PHASE A: 35.5					cc	NTINUOUS	S & LARGEST	мото	R @ 25%:	1.9	2.2	1.6	5.8			note 1	verify max. O.C.P.D. with namepla	ate				

CONNECTED MOTOR LOADS @ 100%: 22.6 17.5 23.1

CONNECTED KITCHEN LOADS @ 65%:: 0.0 0.0 0.0

RECEPTACLE COMPUTED LOAD: 5.2 7.9 3.6

CONNECTED LIGHTING LOAD @100%: 7.8 8.9 6.4 23.1

TOTAL COMPUTED LOAD: 37.4 36.5 34.7 108.6 KVA

135 132 125 130.6 A

Manufacturer

Location:

SQUARE D OR EQUAL

SEE FLOOR PLAN

1626.00

FLUSH

NEMA 1

note 2 lockable circuit breaker

note 4 G.F.C.I. type circuit breaker

note 7 Provide isolated ground bar

note 6 RUN THROUGH TIME SWITCH

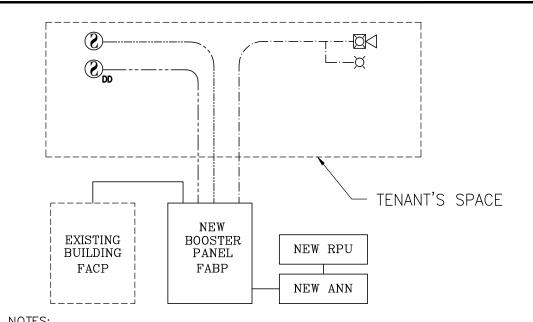
note 3 new circuit breaker

note 5 HACR C.B.

Mounting:

### VOLTAGE DROP CALCULATIONS

- 3% VOLTAGE DROP CALCULATED FOR EVERY BRANCH CIRCUIT SHOWS MAXIMUM DISTANCE ALLOWED FOR THE SPECIFIED WIRE SIZE BASED ON DESIGNED LOAD.
- ALL CIRCUITS HAVE BEEN VERIFIED ON FLOOR PLANS BASED ON HORIZONTAL STRAIGHT RUNS WITH ADDITIONAL 30 FEET OF VERTICAL RUNS. ACTUAL DISTANCES FOR EVERY CIRCUIT RUN SHALL BE FIELD MEASURED BY THE ELECTRICAL CONTRACTOR. CONTRACTOR SHALL PROVIDE NEXT WIRE SIZE FOR RUNS OVER MAXIMUM DISTANCE SHOWN ON PANEL SCHEDULES.



CONNECTED LOAD PHASE A: 13.4

CONNECTED LOAD PHASE B: 12.0

CONNECTED LOAD PHASE C: 12.4

TOTAL CONNECTED LOAD: 37.7

RECEPT. CONNECTED LOAD PH.A: 5.2

RECEPT CONNECTED LOAD PH B: 7.9

RECEPT. CONNECTED LOAD PH.C: 3.6

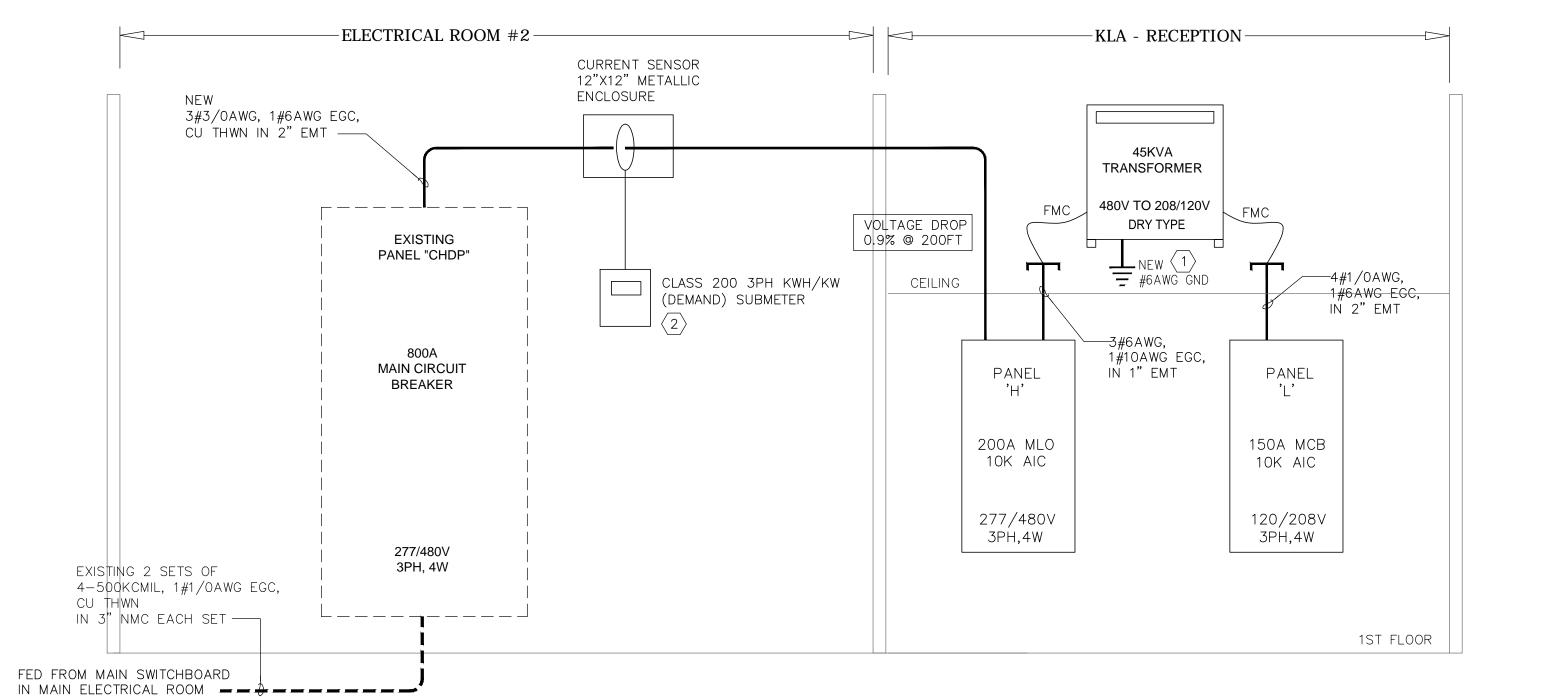
- 1. WIRE USED IS 18 GAUGE FPL OR TFN FOR INITIATING CIRCUITS, 16 GAUGE FOR SIGNALING CIRCUITS IN EMT CONDUIT.
- 2. ALL COMPONENTS ARE UL LISTED FOR PURPOSE INTENDED.
- 3. PROVIDE NEW FA DEVICES TO MATCH EXISTING SYSTEM. 4. THE SOUND LEVEL WILL BE AT LEAST 15 DBA ABOVE THE EQUIVALENT SOUND LEVEL OR 5 DBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS MEASURED 5 FEET ABOVE THE FLOOR IN THE OCCUPIED AREA, INCLUDING LOUNGE, WALK IN COOLERS AND STORAGE AREAS. THE CONTRACTOR WILL BE REQUIRED TO CERTIFY THE DBA LEVEL WITH AN APPROVED DBA METER PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY. (IF
- APPLICABLE) 5. CONTRACTOR SHALL SUBMIT FOR PERMITTING: SHOP DRAWINGS,
- FIRE ALARM RISER, BATTERY CALC'S & CUTSHEETS ON ALL EQUIPMENT. 6. CONTRACTOR SHALL HAVE A CERTIFICATE OF COMPLETION FOR EACH FIRE ALARM SYSTEM INSTALLED AND SHALL PROVIDE A COPY TO THE OWNER AND THE FIRE RESCUE DEPARTMENT.
- 7. SEE PLANS FOR EXACT NUMBER OF DEVICES & LOCATIONS. 8. ACCESS TO ELECTRICAL EQUIPMENT SHALL NOT BE DENIED BY AN ACCUMULATION OF CONDUCTORS AND CABLES THAT PREVENTS REMOVAL OF PANELS, INCLUDING SUSPENDED CEILING PANELS (NEC 2011 760.21)
- 9. MECHANICAL EXECUTION OF WORK FIRE ALARM CIRCUITS SHALL BE INSTALLED IN A NEAT WORKMANLIKE MANNER. CABLES AND CONDUCTORS INSTALLED EXPOSED ON THE SURFACE OF CEILINGS AND SIDEWALLS SHALL BE SUPPORTED BY THE BUILDING STRUCTURE IN SUCH A MENNER THAT THE CABLE WILL NOT BE DAMAGED BY NORMAL BUILDING USE. SUCH CABLES SHALL BE SUPPORTED BY STRAPS, STAPLES OR SIMILAR FITTINGS (NEC 2011 760.24)
- THE INSTALLATION SHALL ALSO COMPLY WITH 300.4(D). 10. PLENUM RATED FA CABLES ARE ALLOWED TO BE INSTALLED EXPOSED ABOVE CEILING PROVIDING THAT THE INSTALLATION IS IN COMPLIANCE WITH NEC 2011 760.21, 760.24 (SEE NOTES 8,9) AND NEC 2011 300.

- OWNERS FA CONTRACTOR SHALL RE-CERTIFY SYSTEM UPON COMPLETION, TO THE OWNER(S) AND THE

## FIRE ALARM RISER

FIRE MARSHALL

### - GC/EC SHALL CONTACT LANDLORD/OWNERS FIRE ALARM CONTRACTOR AND PROVIDE FA DOCUMENTS AND CUT SHEETS, SCHEMATICS AND BATTERY CALCULATIONS AS REQUIRED FOR PERMIT. - OWNERS FA CONTRACTOR SHALL PROVIDE AND INSTALL ROUGH-IN CONDUIT AND BOXES BY GC/EC.



PANEL SCHEDULE H

CONNECTED LOAD PHASE B: 34.3

CONNECTED LOAD PHASE C: 33.1

RECEPT. CONNECTED LOAD PH.A: 5.2

RECEPT. CONNECTED LOAD PH.B: 7.9

RECEPT. CONNECTED LOAD PH.C: 3.6

TOTAL CONNECTED LOAD: 102.8

277/480\

Rated Voltage:

Rated Amps: (Cu bus)

3PH,4W

SPACES

# **EXISTING ELECTRICAL RISER**

## N.T.S.

THROUGH 800A C.B.

NOTES:  $\langle \# \rangle$ 

1. TIE TO MAIN BUILDING GROUNDING SYSTEM 2. PROVIDE E-MON MDL# E20-480200-JKIT (200A) SUBMETER OR APPROVED EQUAL SUPPLIED WITH (3) SPLIT-CORE CURRENT SENSORS

BID/ROUGH IN.

AN OPERATING MANUAL AND MAINTENANCE MANUAL SHALL BE PROVIDED TO THE BUILDING OWNER AS PER FBC 2014 405.7.4.2. THE MANUALS SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:

1. SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. 2. OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF

EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE SHALL BE CLEARLY IDENTIFIED. 3. NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.

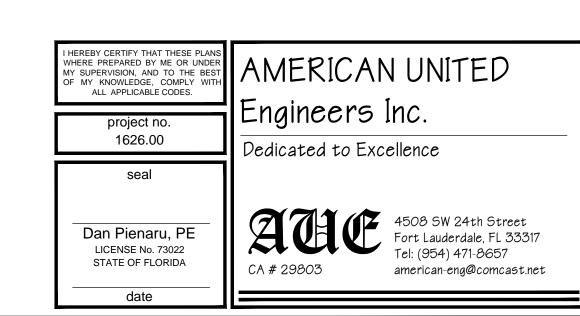
# NOTES TO CONTRACTOR

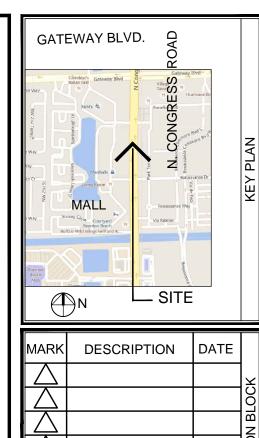
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN DRAWINGS FOR ACTUAL LOCATIONS OF ALL CEILING LIGHTS AND DEVICES. - ELECTRICAL DRAWINGS SHALL NOT BE USED TO LOCATE FIXTURES. - COORDINATE WITH ARCHITECT/CLIENT TYPE AND COLOR OF SWITCH/RECEPTACLE PLATES - REFER TO ARCHITECT FOR ALL FINAL LOCATIONS/DEVICES PRIOR TO

PROVIDE PROPER SIGNAGE AS PER 110-16. SIGNAGE TO STATE: "WARNING ARC FLASH HAZARD. APPROPRIATE PPE REQUIRED. FAILURE TO COMPLY CAN RESULT IN DEATH OR INJURY. REFER TO NFPA 70 E.

-X---X---X DEMOLISHED

**EXISTING** 





ARCHITECTURE/PLANNING
AR # 0010416

NUE 3330 CONGRESS AVE EACH, FLORIDA ( KLA CHILE RIOR IMPF TH (

15118 AS NOTED 16.03.22 PROJECT DATE DP

ISSUE DATE BID DATE DRAWN BY **ELECTRICAL** DISCIPLINE PLAN TYPE SHEET NUMBER: E-3