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, WILL NOT BE ALLOWED.
- 3. 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
- 4. ALL WORK TO BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- 5. CONTRACTOR TO GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE.
- 6. CORRECTION OF ANY DEFECTS TO BE COMPLETED WITHOUT ADDITIONAL CHARGE AND TO INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH
- 7. ALL REQUIRED INSURANCE TO BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY OF PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- B. CONTRACTOR TO PAY FOR ALL PERMITS, FEES INSPECTIONS AND TESTINGS.

MAY HAVE BEEN DAMAGED THEREBY.

- 9. 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.
- 10. 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.
- 1. 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.
- 12. 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.
- 13. 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.
- 14. 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.
- 15. ALL GENERAL PURPOSE SWITCHES AND RECEPTACLES SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER. CATALOG NUMBERS LISTED ARE LEVITON: HOWEVER, COMPARABLE DEVICES BY PASS & SEYMOUR, BRYANT, OR ARROW HART WILL BE ACCEPTED. COLOR OF DEVICES AND PLATES SHALL BE WHITE UNLESS DICTATED OTHERWISE BY ARCHITECT/OWNER.
- 16. 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.
- 17. 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 CONSIDERED AN APPROVED GROUND. A SEPARATE GROUND CONDUCTOR SHALL 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.
- 18. LOAD DATA IS BASED ON INFORMATION GIVEN TO THE ENGINEER AT THE TIME OF DESIGN.
- VERIFY ALL EQUIPMENT NAMEPLATE RATINGS BEFORE ORDERING.

 19. 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
- 20. 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
- 21. ALL FLUORESCENT LIGHT FIXTURES SHALL HAVE IN LINE FUSING AND ENERGY SAVING BALLASTS. (ONLY REQUIRED IN MIAMI DADE COUNTY)
- 22. 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.
- 23. 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, PHASE & 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 BE ACCEPTED.
- 24. 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.
- 25. 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 WITH ZINC CHROMATE.
- 26. 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
- 27. 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
- CONDUIT FILL.

 28 CONDUCTORS SHALL BE COLOR CODED AS FOLLOWS:

MECHANICAL CONTRACTOR.

20. 001100010113 3117	THE BE OCCUR OUDED TO FOLK	20113.	
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	
CDD CON CDEEN	CDD CON CDEEN	CPD CON	CDEEN

- 29. CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL CONDUIT PENETRATIONS MADE THROUGH FIRE RATED WALLS, CEILINGS, SLABS, ETC. PENETRATION SEALS SHALL BE PER
- 30. 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
- 31. 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.

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 BID/ROUGH IN.

NOTES:

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,

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.

VOLTAGE DROP CALCULATIONS

AT A MINIMUM. THE FOLLOWING:

- 1. 3% VOLTAGE DROP CALCULATED FOR EVERY BRANCH CIRCUIT SHOWS MAXIMUM DISTANCE ALLOWED FOR THE SPECIFIED WIRE SIZE BASED ON DESIGNED LOAD.
- 2. 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.

	PANEL SCHEDULE	Α				EXIST	ING														
	Rated Voltage:	120/208\	V			3PH,4W				Manı	ufacturer:			(SQUARE D)			Mountii	ng:	FLUSH		
	Rated Amps: (Cu bus)	400A				SPACES:		42		Loca	tion:		3RD FLOC	OR EL. ROOM			Type:		NEMA 1		
	Main:	MLO								Proje	ect No:		1635.00				A.I.C:		EXISTING		
KVA										KVA											
NOTE	CIRCUIT DESIGNATION	O.C.P.	AWG	MAX. DIST.(ft)	VOLT DROP	RCPT	LTG/CONT	KITCHEN	MOTOR/APP.	РН	RCPT	LTG/CONT	KITCHEN	MOTOR/APP.	MAX. DIST.(ft)	VOLT DROP	AWG	O.C.P.	CIRCUIT DESIGNATION	NC	OTE
1	SIGN	20/1	12	110	3%		1.2			Α	0.60				219	3%	12	20/1	T.B.B.	2	
3	CORRIDOR LIGHTS/EMERGENCY	20/1	12	176	3%		0.75			В	1.50				88	3%	12	20/1	OFFICE RECEPTACLES	4	
5	RECEPT/BREAK LTS/ EMERGENCY	20/1	12	219	3%		0.6			С	0.60				219	3%	12	20/1	NURSE STATION QUAD	6	
7	SOUTH SLEEPING RMS. LIGHTS	20/1	12	132	3%		1.0			Α	0.54				244	3%	12	20/1	NURSE STATION RECEPTACLES	8	
9	NORTH SLEEPING RMS. LIGHTS	20/1	12	139	3%		0.95			В				0.70	188	3%	12	20/1	UC REFRIG. NURSE STATION	10	
11	OFFICE/RESTROOM LTS. EMERG.	20/1	12	329	3%		0.4			С				1.20	110	3%	12	20/1	ICE MACHINE NURSE STATION	12	
13	BREAKROOM UC BEV FRIDGE	20/1	12	188	3%				0.70	Α				0.70	188	3%	12	20/1	UC REFRIG. NURSE STATION	14	
15	BREAKROOM TOASTER OVEN	20/1	12	73	3%				1.80	В	0.60				219	3%	12	20/1	REGISTRATION RECEPTACLE	16	
17	BREAKROOM TOASTER	20/1	12	73	3%				1.80	С	1.20				110	3%	12	20/1	REGISTRATION PRINTER	18	
19	BREAKROOM MICROWAVE	20/1	12	82	3%				1.60	Α	0.72				183	3%	12	20/1	REGISTRATION/WAITING RECEPT	20	
21	BREAKROOM FRIDGE	20/1	12	120	3%				1.10	В				0.50	263	3%	12	20/1	DRINKING FOUNTAIN	22	
23	BREAKROOM DISHWASHER	20/1	12	110	3%				1.20	С	0.54				244	3%	12	20/1	CORRIDOR RECEPTACLES	24	
25	BREAKROOM COFFEE MAKER	20/1	12	88	3%				1.50	Α	0.00	2.65	0.00	3.70	79	3%	6	60/2	PANEL B	26	
27	WATER CIRCULATION PUMP	20/1	12	219	3%				0.60	В	0.00	2.25	0.00	2.50						28	
29	SPARE	20/1								С	1.26				104	3%	12	20/1	SLEEPING ROOM 104,105,106,108	30	
31	SPARE	20/1								Α	1.26				104	3%	12	20/1	SLEEPING ROOM 108,109,110	32	
33	SPARE	20/1								В	1.26				104	3%	12	20/1	SLEEPING ROOM 116,117,118	34	
35	SPARE	20/1								С	1.10				120	3%	12	20/1	SLEEPING ROOM 118,119	36	
37							8.30			Α	1.26				104	3%	12	20/1	SLEEPING ROOM 120,121	38	
39	RTU	100/3	3	111	3%		8.30			В				0.60	219	3%	12	20/1	FOUNTAIN PUMP	40 4	4
41							8.30			С	0.18				731	3%	12	20/1	ROOF SERVICE RECEPTACLE	42	
	SUBTOTAL CONNECTED LOAD: 0.0 29.8 0.0 10.3									12.6	4.9	0.0	9.9			: SUBTO	OTAL CO	NNECTED LOAD			
	CONNECTED LOAD PHASE A: 25.7								PHASE: CONTINUOUS & LARGEST MOTOR @ 25%					2.3	TOTAL 8.7			note 1	verify max. O.C.P.D. with nameplate		
	CONNECTED LOAD PHASE B								CTED MOTOR		_	3.3 8.2	3.1 7.8	4.2	verily made c.c.r.b.						
	CONNECTED LOAD PHASE C							CONNE	CTED LIGHTIN	G LOA	D @100%:	13.2	12.3	9.3	34.7				RUN THRU LIGHTING RELAY P.	ANEL	
1	00	. 10.4	•				1				_	1									

PANEL SCHEDULE B					CATE	ΞD														
Rate	ed Voltage:	120/240	/	1PH,3W SPACES: 6				Manufacture: EXISTING							Mounti	ng:	SURFACE			
Rate	ed Amps: (Cu bus)	60A					Location:				LAUNDRY	AUNDRY			Type:		NEMA 1			
Mair	Main: MLO				Project No: 1635.00							A.I.C: EXIST			EXISTING					
					KVA								KVA							
DTES	CIRCUIT DESIGNATION	O.C.P.	AWG	MAX. DIST.(ft)	VOLT DROP	RCPT	LGT/HEAT	KITCHEN	OTHER	РН	RCPT	LGT/HEAT	KITCHEN	OTHER	MAX. DIST.(ft)	VOLT DROP	AWG	O.C.P.	CIRCUIT DESIGNATION	NC
1	DRYER	30/2	10	87	3%				2.50	1		2.25			145	3%	8	40/2	EWH	2
3									2.50	2		2.25								4
5	WASHER	20/1	12	110	3%				1.20	1		0.40			329	3%	12	20/1	EXTERIOR LIGHTS WALL PACKS	6
	SUBTOTAL C	ONNECTE	LOAD:			0.0	0.0	0.0	6.2		0.0	4.9	0.0	0.0		: SUBTOTAL CONNECTED LOAD				
CONNECTED LOAD LINE 1: 6.35 CONTINUOUS & LARGEST MOTOR @ 25%: 1.2 note 1 verify max. O.C.P.D. with nameplate																				
	CONNECTED LOAD LINE 2	:: 4.75					CONNECTED MOTOR LOADS @ 100%: 6.2 note 2 lockable							lockable circuit breaker						
						CONNECTED LIGHTING LOAD @100%: 4.9 note 3 non-concurrent load														
	TOTAL CONNECTED LOAD	: 3.9				CONNECTED KITCHEN LOADS @ 65%:: 0.0 note 4 G.F.C.I. type circuit breaker														
	RECEPT. CONNECTED LOAD): 0.0						RECEPEPTACLE COMPUTED LOAD: 0.0								note 5	ote 5 HACR TYPE C.B.			
								TOTAL COMPUTED LOAD							KVA				time switch controlled	

CONNECTED KITCHEN LOADS @ 65%:: 0.0 0.0 0.0

RECEPTACLE COMPUTED LOAD: 4.4 3.4 4.9 12.6

TOTAL COMPUTED LOAD: 29.0 26.5 20.7 76.2 KVA

242 221 173 211.5 A

0.0

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

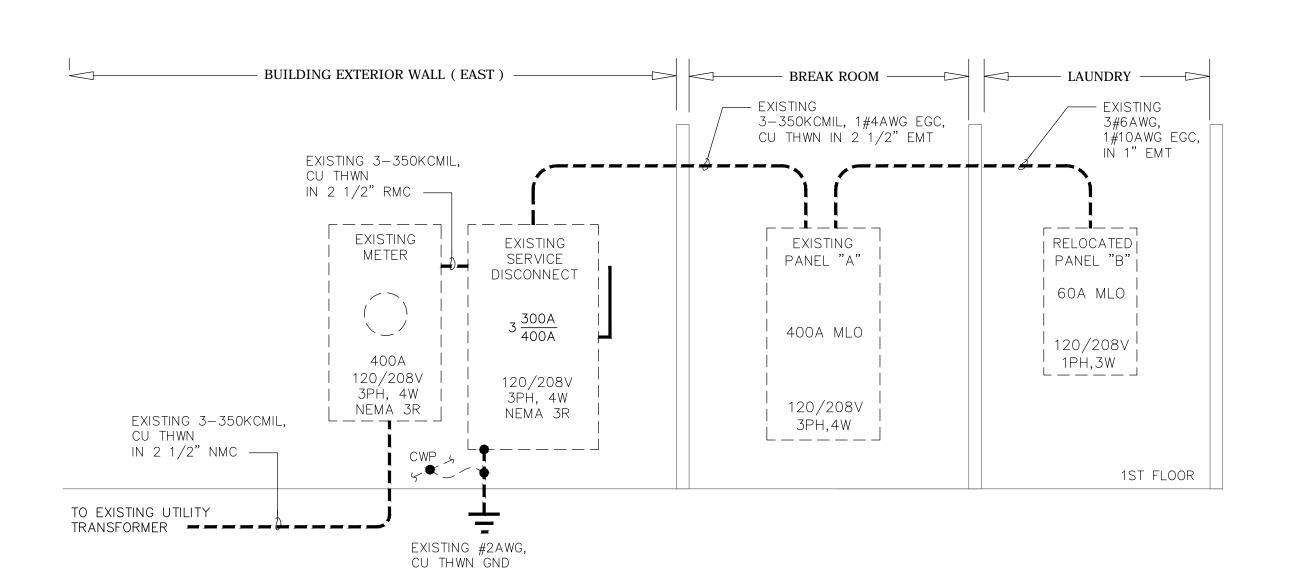
note 8 Provide lockable type circuit breaker

note 5 HACR C.B.

note 6 non concurrent load

note 7 Provide isolated ground

note 7 mechanically held lighting contactor



EXISTING ELECTRICAL RISER

N.T.S.

NOTES: 4

1. RE-ROUTE EXISTING FEEDER TO NEW PANEL LOCATION AND RECONNECT AS PREVIOUS.

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."

----- EXISTING

-X---X---X DEMOLISHED

TOTAL CONNECTED LOAD: 67.5

RECEPT. CONNECTED LOAD PH.A: 4.4

RECEPT. CONNECTED LOAD PH.B: 3.4

RECEPT. CONNECTED LOAD PH.C: 4.9

AMERICAN UNITED Engineers Inc.

Dedicated to Excellence

date



4508 SW 24th Street
Fort Lauderdale, FL 33317
Tel: (954) 471-8657
american-eng@comcast.net

ARCHITECTURAL ENTERPRISES, INC.
499 East Palmetto Park Rd.
Suite 204
Boca Raton, FL 33432

Florida Registration Number AA26001852

T 561.479.9884

www.ccsarch.com

CONSULTANTS:

ELECTRICAL, MECHANICAL, PLUMBING:

AMERICAN UNITED ENGINEERS 4508 SW 24TH STREET FORT LAUDERDALE, FL 33317 PHONE: (954) 471-8657

PROJECT:

INTERIOR IMPROVEMENTS 950 NW 9th Court Boca Raton, FL

DESIGN DEVELOPMENT

PROJECT NUMBER: DATE: CAD FILE NO:	2016.06 06-29-2016
ADDENDA/REVISIO	NS
SEAL:	

CYNTHIA C. SPRAY, AIA AR-94167

DRAWING TITLE:
ELECTRICAL RISER
PANEL SCHEDULES
SPECIFICATIONS

DRAWING NO:

E-3