RECEPTACLES		INTERIOR LUMINAIRES		CONDUIT / WIRING AND GROUNDING					
SYMBOL	DESCRIPTION DUDI EX DECEDITACI E 120V 20A	MOUNTING 18" AFF OR AS NOTED	SYMBOL	DESCRIPTION 2x2 LAY-IN FIXTURE	MOUNTING SEE FIXTURE	SYMBOL	DESCRIPTION DRIVEN ROD	MOUN	
ы	DUPLEX RECEPTACLE 120V, 20A DUPLEX RECEPTACLE 120V, 20A	44" AFF OR 6" ABOVE		EMERGENCY POWER	SCHEDULE		(UNLESS NOTED OTHERWISE)	NI IMPER OF	
	(COUNTER HEIGHT (TYP.))	COUNTER	NL NL	2x2 LAY-IN FIXTURE (NL - DENOTES NIGHTLIGHT)	SEE FIXTURE SCHEDULE		CONDUIT CONCEALED IN CEILING SPACE OR WALL	NUMBER OI AS	
#	QUAD RECEPTACLE 120V, 20A DUPLEX RECEPTACLE W/ USB PORTS	18" AFF OR AS NOTED		2x4 LAY-IN FIXTURE EMERGENCY POWER	SEE FIXTURE SCHEDULE		CONDUIT CONCEALED IN CEILING SPACE OR WALL	TWO WIRE	
<u></u> ₩	120V, 20A DUPLEX RECEPTACLE	18" AFF OR AS NOTED	NL NL	2x4 LAY-IN FIXTURE (NL - DENOTES NIGHTLIGHT)	SEE FIXTURE SCHEDULE		HOME RUN TO PANEL (HASH MARKS INDICATE NUMBER OF WIRES)	FOUR WIRE	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(EXISTING TO REMAIN)	AS NOTED		1x4FT STRIP FIXTURE	SEE FIXTURE		CONDUIT RUN EXPOSED		
	DUPLEX RECEPTACLE (HALF SWITCHED) 120V, 20A	18" AFF OR AS NOTED		EMERGENCY POWER	SCHEDULE SEE FIXTURE	IN	LOW VOLTAGE WIRING		
•	DUPLEX RECEPTACLE 120V, 20A (PEDESTAL BOX)	CONDUIT ON FLOOR SERVICE FITTING		1x4FT STRIP FIXTURE	SCHEDULE		CONDUIT RUN UP	AS SHO	
#	QUADRAPLEX RECEPTACLE 120V, 20A (PEDESTAL BOX)	CONDUIT ON FLOOR SERVICE FITTING		EMERGENCY FIXTURE	SEE FIXTURE SCHEDULE		CONDUIT RUN DOWN	AS SHO	
	SPECIAL PURPOSE RECEPTACLE	SEE POWER SHEET FOR DETAIL	€	EMERGENCY EXIT COMBINATION FIXTURE	SEE FIXTURE SCHEDULE			AS SIR	
√	CORD DROP RECEPTACLE	SEE POWER SHEET FOR DETAIL		EXIT FIXTURE - DIRECTION DENOTED	SEE FIXTURE SCHEDULE	SYMBOL	MECHANICAL UNITS DESCRIPTION	MOUN	
DUPLEX □ QUAD	FLOOR 120V AND DATA SQUARE	FLUSH WITH FLOOR	_	EXTERIOR EGRESS FIXTURE	SEE FIXTURE	Atu.,			
	CEILING 120V DUPLEX	FLUSH WITH CEILING			SCHEDULE SEE FIXTURE		AIR HANDLER	AS NO	
	CEILING SPECIAL PURPOSE RECEPTACLE	FLUSH WITH CEILING	+	PENDANT FIXTURE	SCHEDULE	CU-I			
RECEPTACLE		1	•	DOWN LIGHT EMERGENCY FIXTURE	SEE FIXTURE SCHEDULE		CONDENSING UNIT	AS NO	
GFCI	GROUND FAULT CIRCUIT INTERRU		0	DOWN LIGHT	SEE FIXTURE SCHEDULE				
GFCI/WP WP	GROUND FAULT CIRCUIT INTERRU WEATHERPROOF	PTER / WEATHERPROOF	ф	WALL MOUNTED FIXTURE	SEE FIXTURE SCHEDULE	RP-1	RECIRCULATING PUMP	AS SHO	
F	FLUSH W/ FLOOR		X	LIGHT FIXTURE (EXISTING)		_ IWH • •	INSTA-HOT WATER HEATER	AS SHO	
ETR	EXISTING TO REMAIN			Elom Pariette (Emonivo)	SEE FIXTURE				
	LIGHTING CONTROLS	1	•	WALL WASH FIXTURE	SCHEDULE	-	ELECTRICAL DEVICES TO BE REMOVED OR RELOC. ELECTRICAL DEVICES TO REMAIN		
SYMBOL \$	DESCRIPTION SINGLE POLE SWITCH	MOUNTING 48" AFF OR AS NOTED		TRACK FIXTURE	SEE FIXTURE SCHEDULE	NEW EI	ECTRICAL DEVICES		
	(INDICATES LIGHTS CONTROLLED)	48" AFF OR AS NOTED	S(FL)	EXHAUST FAN / LIGHT COMBO	SEE FIXTURE SCHEDULE	222	REFERS TO LIKE NUMBER KEY NO	ΓES	
\$3	3 WAY SWITCH		S	EXHAUST FAN	SEE FIXTURE SCHEDULE	NOTE: ALL ITEMS IN L	EGEND MAY NOT NECESSARILY APP	EAR ON THE PI	
\$>	DIMMER SWITCH LOW VOLTAGE SWITCH. "LVD" TO	48" AFF OR AS NOTED		HIGH BAY FIXTURE (ROUND)	SEE FIXTURE	ABBREV	'IATIONS		
\$1v \$1.vo	DENOTE LOW VOLTAGE DIMMER.	48" AFF OR AS NOTED		Indit Bat Flatere (ROOND)	SCHEDULE	≟ I	· AVAILABLE FAULT CURREN · ABOVE FINISHED FLOOR	ЛТ	
\$ _m	OCCUPANCY SENSOR SWITCH	48" AFF OR AS NOTED ON CEILING OR		HIGH BAY FIXTURE (RECTANGLE)	SEE FIXTURE SCHEDULE	AHU -	· ABOVE FINISHED FLOOR · AIR HANDLING UNIT · BELOW FINISHED GRADE		
@	OCCUPANCY SENSOR	AS NOTED	1			C -	· CONDUIT · COOL WHITE		
	POWER PACK CEILING MOUNTED INTERIOR	ABOVE CEILING		CEILING FAN	SEE FIXTURE SCHEDULE	CKT -	· CONDENSING UNIT · CIRCUIT		
♦	DAYLIGHT HARVESTING PHOTOCELL SENSOR	ON CEILING OR AS NOTED)			DN -	DOOR ALARM CONTROL PA	NEL	
	FIRE ALARM			HANGING FIXTURE	SEE FIXTURE	EG -	EXHAUST FAN EQUIPMENT GROUND		
SYMBOL	DESCRIPTION	MOUNTING ON CEILING OR		(CHANDELIER)	SCHEDULE	EWC -	· ENCLOSURE · ELECTRIC WATER COOLER · ELECTRIC WATER HEATER		
•	HEAT DETECTOR	AS NOTED		EXTERIOR LUMINAIRES		ETR -	EXISTING TO REMAIN PANEL		
Φ	FIRE ALARM SMOKE DETECTOR	ON CEILING OR AS NOTED	SYMBOL	DESCRIPTION	MOUNTING SEE FIXTURE	EOP -	EDGE OF PAVEMENT EXPLOSION PROOF		
Φ ∃	FIRE ALARM SMOKE DETECTOR (WALL MOUNTED)	WALL MTD. 6" BELOW CLG.		POLE MOUNTED LIGHT FIXTURE	SCHEDULE	FHP -	- FAN COIL UNIT - FRACTIONAL HORSE POWER	₹	
	DUCT TYPE SMOKE DETECTOR	IN HVAC DUCTWORK		WALL PACK FIXTURE	SEE FIXTURE SCHEDULE	G -	FULL LOAD AMPERES GROUND GROUND FALLET NITER BLUT	red -	
FACP	FIRE ALARM CONTROL PANEL	60" AFF TO TOP OR AS NOTED		BOLLARD / PATHWAY FIXTURE	SEE FIXTURE SCHEDULE	HID -	· GROUND FAULT INTERRUPT · HIGH INTENSITY DISCHARG · HORIZONTAL		
FAAP	FIRE ALARM ANNUNCIATOR	60" AFF TO TOP OR AS NOTED	ф	WALL MOUNTED FIXTURE	SEE FIXTURE SCHEDULE	IG -	· ISOLATED GROUND · LIGHT WHITE		
(SD)	SMOKE DAMPER	IN HVAC DUCTWORK		POWER DISTRIBUTION		HVAC -	· HORSEPOWER / HEAT PUMP · HEATING, VENTILATING, AI		
(F) —(19)	FLOW AND TAMPER SWITCH	AS NOTED	SYMBOL	DESCRIPTION	MOUNTING	LRA -	· JUNCTION BOX · LOCKED ROTOR AMPERES		
₽	FIRE ALARM VISUAL STROBE	80" AFF OR SEE NOTE BELOW		METER	AS NOTED SEE PANEL	MLO -	· MAIN CIRCUIT BREAKER · MAIN LUGS ONLY · NEUTRAL		
<u> </u>	FIRE ALARM SPEAKER/VISUAL	80" AFF OR SEE NOTE BELOW		PANELBOARD. 120/208V OR 120/240V	SCHEDULE	NL -	· NIGHT LIGHT · OUTLET BOX		
•	STROBE FIRE ALARM HORN/VISUAL	80" AFF OR		PANELBOARD. 277/480V	SEE PANEL SCHEDULE	PB -	PULL BOX, PUSHBUTTON PAY STATION		
<u> </u>	STROBE FIRE ALARM SPEAKER ONLY	SEE NOTE BELOW 80" AFF OR	MPMR.	TRANSFORMER	AS NOTED	RECEPT - SF -	RECEPTACLE SUPPLY FAN		
	FIRE ALARM MANUAL PULL	SEE NOTE BELOW 48" AFF OR AS NOTED		DISCONNECT SWITCH	AS NOTED	SPD -	SPECIFICATIONS SURGE PROTECTION DEVICE		
	STATION DUCT DETECTOR REMOTE	48" AFF OR AS NOTED 48" AFF OR		FUSED DISCONNECT SWITCH. (SIZE / FUSE / # OF POLES)	AS NOTED	TL -	· SMOKE WARNING EMERGEN · TWISTLOCK · TELEPHONE TERMINAL BOA		
∅	TEST / RESET SWITCH	AS NOTED	CB	ENCLOSED CIRCUIT BREAKER.	AS NOTED	TVTB -	- TELEVISION TERMINAL BOA - VERTICAL		
RM	RELAY MODULE	AS NOTED	₩	DISCONNECT SWITCH WITH MOTOR STARTER.	AS NOTED	WP -	WATT MISER WEATHERPROOF		
MM 	MONITOR MODULE	AS NOTED	⊞	MOTOR STARTER.	AS NOTED		- WARM WHITE - TRANSFORMER		
DM	DUAL MONITOR MODULE	AS NOTED	Sm	MOTOR STARTER SWITCH WITH OVERLOAD RELAYS AS REQUIRED.	AS NOTED				
SYMBOL	LOW VOLTAGE & DATA DESCRIPTION	MOUNTING	9	MOTOR.	AS NOTED				
NWAP	WIRELESS ACCESS POINT	AS NOTED	PXXX1	ELECTRIC DUCT HEATER.	AS NOTED				
\triangle	LOW VOLTAGE DUPLEX RECEPTACLE (NUMBER DENOTES QUANTITY OF PORTS)	18" AFF OR AS NOTED	PP	POWER POLE	AS NOTED				
<u></u>	COUNTER HEIGHT, LOW VOLTAGE DUPLEX RECEPTACLE (NUMBER	ABOVE COUNTER	ATS	AUTOMATIC TRANSFER SWITCH.	AS NOTED]			
TTB	DENOTES QUANTITY OF PORTS) TELEPHONE TERMINAL BOARD	AS NOTED	MTS	MANUAL TRANSFER SWITCH.	AS NOTED	1			
CATV	CABLE TV WALL JACK	AS NOTED	□ /®	JUNCTION BOX OR 4 SQUARE BOX.	AS NOTED	1			
	SECURITY	1				J			
SYMBOL	DESCRIPTION	MOUNTING							

MOUNTING

NUMBER OF WIRES INDICATED

AS FOLLOWS

TWO WIRES

HREE WIRES

FOUR WIRES

AS SHOWN

AS SHOWN

MOUNTING

AS NOTED

AS NOTED

AS SHOWN

AS SHOWN

ALL ITEMS IN LEGEND MAY NOT NECESSARILY APPEAR ON THE PLANS.

- HEATING, VENTILATING, AIR CONDITIONING

- SMOKE WARNING EMERGENCY CALL SYSTEM

GENERAL NOTES

- ALL WORK IS TO COMPLY WITH THE 2020 NATIONAL ELECTRIC CODE AND THE 8TH EDITION, 2023 FLORIDA BUILDING CODE, AND ALL LOCAL CODES OR REGULATIONS THAT MAY APPLY TO THE PROJECT.
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MAKING A SITE VISIT IN ORDER TO IDENTIFY EXISTING CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT ANY ELECTRICAL SYSTEMS TO REMAIN ARE CODE COMPLIANT.
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY POWER AND TEMPORARY LIGHTING AS REQUIRED FOR THE DURATION OF THE PROJECT.
- THE ELECTRICAL CONTRACTOR IS REQUIRED TO PROVIDE A WORKMANSHIP WARRANTY OVER THE PERIOD OF ONE YEAR AFTER PROJECT COMPLETION THAT IS SUFFICIENT TO COMPLY WITH THE PROJECT CONTRACT.
- THE ELECTRICAL CONTRACTOR IS TO PROVIDE A COMPLETE SET OF MARKED UP ELECTRICAL "AS BUILT" DRAWINGS TO THE GENERAL CONTRACTOR UPON COMPLETION OF THE PROJECT.
- 6. THE ELECTRICAL CONTRACTOR IS TO PROVIDE AN OPERATION AND MAINTENANCE MANUAL
- FOR ALL EQUIPMENT REQUIRING MAINTENANCE ASSOCIATED WITH THE PROJECT. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL WORK WITH OTHER
- TRADES IN ORDER TO NOT INTERFERE WITH THE OVERALL PROJECT SCHEDULE. 8. IF A DISCREPANCY IS FOUND BETWEEN THE ELECTRICAL PLANS AND THE SPECIFICATIONS, THE
- MOST STRINGENT REQUIREMENT SHALL GOVERN UNLESS WRITTEN APPROVAL IS GRANTED FROM THE ARCHITECT OR ENGINEER.
- 9. ALL BREAKER, DISCONNECT AND WIRE SIZING MUST BE CONFIRMED BY THE ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN.

SUBMITTALS AND SHOP DRAWINGS

- PRIOR TO PROCUREMENT, THE CONTRACTOR IS REQUIRED TO PROVIDE SUBMITTALS AND SHOP DRAWINGS TO THE GENERAL CONTRACTOR, ENGINEER, AND ARCHITECT FOR APPROVALS.
- 2. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO ENSURE THE SUBMITTED PRODUCTS WILL FORM A COMPLETE, FUNCTIONAL, AND CODE COMPLIANT ELECTRICAL

WIRING AND RACEWAYS

- 1. NO WIRING IS TO BE SMALLER THAN #12 AWG UNLESS OTHERWISE NOTED.
- EACH BRANCH CIRCUIT FOR LIGHTING AND RECEPTACLES SHALL BE INSTALLED WITH DEDICATED NEUTRAL. ALL OTHER CIRCUITS SHALL BE INSTALLED WITH DEDICATED NEUTRAL UNLESS EQUIPMENT DOES NOT REQUIRE A NEUTRAL CONNECTION.
- THE CONDUCTORS FOR FEEDERS AND BRANCH CIRCUITS COMBINED SHALL BE SIZED FOR A MAXIMUM AT 5% VOLTAGE DROP TOTAL PER FBC C405.5.3.
- 4. TYPE MC CABLING IS ACCEPTABLE UNLESS PROHIBITED BY THE SPECIFICATIONS OF THE PROJECT, OR THE NATIONAL ELECTRIC CODE DUE TO THE OCCUPANCY TYPE OF THE PROJECT.
- 5. NONMETALLIC CABLING (ROMEX) SHALL NOT BE USED.
- 6. ALL WIRING IS TO BE SIZED PER NEC.
- 7. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO UPSIZE ALL CONDUIT AND WIRING WHEN REQUIRED DUE TO VOLTAGE DROP POSED BY ONSITE CONDITIONS.
- 8. PROVIDE COMPLETE RACEWAYS FOR ALL SYSTEMS AS REQUIRED BY THE NEC AND LOCAL CODES. TYPE PVC, EMT, AND RMC ARE PERMITTED AS REQUIRED BY THE LOCAL CODE.
- 9. A GROUND CONDUCTOR IS TO BE SUPPLIED IN ALL RACEWAYS. SIZE THE GROUND
- CONDUCTOR PER THE NEC, OR AS SHOWN ON THE PLAN, WHICHEVER IS LARGER.
- 10. RACEWAYS ARE TO BE CONCEALED AND EQUIPMENT IS TO BE FLUSH MOUNTED, UNLESS OTHERWISE NOTED, OR WHEN ONSITE CONDITIONS MAKE CONCEALING OR FLUSH MOUNTING
- 11. WHEN A RACEWAY PENETRATES A FIRE WALL OR FLOOR. THE RACEWAY IS TO BE SEALED IN A MANNER WHICH WILL MAINTAIN THE RATING OF THE WALL OR FLOOR
- 12. MINIMUM CONDUIT SIZE IS TO BE 3/4 INCH, UNLESS OTHERWISE NOTED.
- 13. FLEXIBLE CONDUIT IS ALLOWABLE IN LENGTHS OF 6' OR LESS, WHEN IT IS MORE PRACTICAL TO MAKE CONNECTIONS TO EQUIPMENT.
- 14. SEALTITE FLEXIBLE CONDUIT IS TO BE USED IN OUTDOOR APPLICATIONS.
- 15. THE RACEWAY SYSTEM AS A WHOLE IS REQUIRED TO COMPLY WITH ALL NEC AND LOCAL CODE REOUIREMENTS.

GROUNDING

- 1. THE ELECTRICAL SYSTEM IS TO BE GROUNDED IN ITS ENTIRETY PER THE NEC.
- 2. THE TELEPHONE / NETWORK BOARD IS TO HAVE NO. 6 AWG GROUND WIRE TO THE MAIN SERVICE GROUND.
- 3. ALL METALLIC EQUIPMENT INCLUDING RACEWAYS, PANELBOARDS, DISCONNECTS, BOXES, ARE TO BE CONNECTED TO THE GROUNDING SYSTEM PER NEC REQUIREMENTS.
- 4. THE SERVICE GROUND IS TO BE SIZED ACCORDING TO NEC REQUIREMENTS AND IS TO BE CONNECTED TO BUILDING STEEL, COLD WATER PIPING, CONCRETE ENCASED STEEL, AND GAS PIPING IF REQUIRED.

- 1. LIGHT SWITCHES ARE TO BE MOUNTED 48 INCHES ABOVE FINISHED FLOOR TO THE TOP OF THE DEVICE, UNLESS OTHERWISE NOTED.
- RECEPTACLES ARE TO BE MOUNTED 18 INCHES ABOVE FINISHED FLOOR TO THE CENTERLINE OF THE DEVICE, UNLESS OTHERWISE NOTED.
- 3. THE COLOR AND STYLE OF OUTLETS AND SWITCHES ARE TO BE DETERMINED BY THE CLIENT.
- 4. RECEPTACLES ARE TO BE GFCI TYPE WHERE NOTED.
- 5. PROVIDE TAMPER-RESISTANT RECEPTACLES IN OCCUPANCIES WHERE REQUIRED BY NEC 2020,
- 6. RECEPTACLES AND SWITCHES ARE TO BE FLUSH MOUNTED UNLESS OTHERWISE NOTED.
- 7. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO ENSURE COMPATIBILITY OF SPECIAL RECEPTACLES WITH THE EQUIPMENT THEY ARE INTENDED TO SERVE.
- 8. ALL EXTERIOR RECEPTACLES AND RECEPTACLES SUBJECT TO MOISTURE MUST BE OF GFCI TYPE REGARDLESS OF THE TYPE SHOWN ON THE ELECTRICAL PLANS.
- 9. ALL EXTERIOR RECEPTACLES AND SWITCHES ARE REQUIRED TO BE INSTALLED WITH WEATHERPROOF "IN USE" TYPE COVERS.
- 10. DEVICES ARE SHOWN ON THE ELECTRICAL PLANS FOR A REFERENCE LOCATION ONLY. COORDINATE EXACT LOCATION WITH ARCHITECTURAL PLANS AND OTHER TRADES. NOTE ANY CHANGES ON THE "AS BUILT" SET OF ELECTRICAL PLANS.

SWITCHGEAR

- 1. PANELBOARDS AND LOAD CENTERS ARE TO BE SQUARE D OR APPROVED EQUAL.
- 2. PANELBOARDS AND LOAD CENTERS ARE TO BE PROVIDED WITH TRANSIENT VOLTAGE SURGE SUPPRESSION AS DESCRIBED IN THE ELECTRICAL PLANS.
- DISCONNECTS ARE TO BE HEAVY DUTY TYPE AND ARE TO BE FUSED WHERE THE EQUIPMENT IS NOT SUPPLIED BY THE APPROPRIATE BREAKER.
- 4. ALL NEW BREAKERS ADDED TO EXISTING PANELS ARE TO MATCH THE EXISTING PANEL MANUFACTURER AND AIC RATING OF THE EXISTING BREAKERS.
- 5. THE LOCATIONS OF ALL SWITCHGEAR, PANELS, DISCONNECTS, MCC'S, ETC. IS APPROXIMATE. CONSULT OWNER PRIOR TO ROUGH IN OF EQUIPMENT.
- 6. PROVIDE TYPED PANEL SCHEDULES/DIRECTORIES FOR ALL PANELS UPON COMPLETION OF THE PROJECT. ENSURE THAT THE SCHEDULES PROVIDED REFLECT THE "AS BUILT" CONDITION AND ARE NOT SIMPLY COPIES OF THE PANEL SCHEDULES FROM THESE PLANS. IF AN EXISTING PANEL IS MODIFIED, IT IS ACCEPTABLE TO ADD THE MODIFICATION TO THE EXISTING SCHEDULE IN THE MANNER THE EXISTING SCHEDULE WAS ORIGINALLY CREATED.
- PROVIDE ENGRAVED PLASTIC LAMINATE NAME TAGS ON THE FRONT OF ALL PANELS, DISCONNECTS, TRANSFORMERS AND OTHER SWITCHGEAR. LABEL THE EQUIPMENT TO MATCH THE AS BUILT DRAWINGS TO ENSURE MAINTENANCE PERSONNEL ARE PROVIDED THE INFORMATION THEY NEED TO QUICKLY IDENTIFY THE ELECTRICAL SYSTEM.
- 8. PROVIDE ALL OTHER IDENTIFICATION AS REQUIRED PER ANSI, NEC, AND ANY OTHER APPLICABLE STANDARDS / SPECIFICATIONS.
- 9. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO VERIFY ALL NEC CLEARANCE REQUIREMENTS ARE MET BEFORE THE ROUGH-IN OF ANY EQUIPMENT. THE LAYOUT OF SWITCHGEAR AND OTHER EQUIPMENT ON THE PLANS IS DIAGRAMMATICAL ONLY.
- 10. IT IS THE SOLE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO ENSURE THE METERING SCHEME SHOWN ON THESE PLANS CONFORM TO THE SPECIFICATIONS OF THE LOCAL UTILITY COMPANY GOVERNING THIS PROJECT. THE LOCAL UTILITY'S METERING STANDARDS BOOK NEEDS TO BE RESEARCHED BY THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING OF MATERIALS
- 11. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE AVAILABLE FAULT CURRENT CALCULATIONS ON THIS PLAN SET. CALCULATIONS WITHIN THIS PLAN SET ARE BASED ON TRANSFORMER, AND CONDUCTOR INFORMATION THAT MAY OR MAY NOT REFLECT THE ACTUAL INSTALLATION ON THE PROJECT SITE. ANY DISCREPANCIES INCLUDING THE AVAILABLE FAULT CURRENT AT UTILITY TRANSFORMERS MUST BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO ORDERING ANY EQUIPMENT.

LIGHTING

- 1. CONNECT ALL EXIT SIGNS, EGRESS FIXTURES, AND NIGHT LIGHTS ON THE UNSWITCHED LEG OF A LOCAL LIGHTING CIRCUIT.
- 2. MINIMUM EMERGENCY ILLUMINATION OF 1 FOOT CANDLE AT FLOOR LEVEL ALONG THE PATH OF EGRESS FOR 90 MINUTES IS REQUIRED. EMERGENCY LIGHTING FIXTURES SHALL BE ARRANGED BY THE CONTRACTOR TO ACCOMPLISH THIS REQUIREMENT.
- 3. REFER TO THE ARCHITECTURAL CEILING PLAN FOR EXACT FIXTURE LOCATIONS.
- 4. MULTIPLE FIXTURES MAY HAVE OPTIONS FOR MOUNTING IN GRID, OR DRYWALL CEILINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THE PROPER MOUNTING HARDWARE AND TRIM PIECES ARE ORDERED BASED ON THE CEILING TYPES SHOWN IN THE ARCHITECTURAL PLANS.
- 5. ALL FIXTURES AND CONTROLS ARE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED.

PROFESSIONAL STATEMENT

TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH FLORIDA STATUTES.

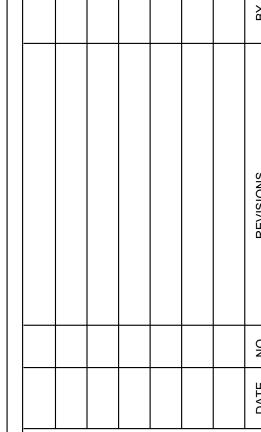
CURRENT APPLICABLE CODES ALL WORK IS TO COMPLY WITH THE 2020 NATIONAL ELECTRIC CODE AND THE 8TH EDITION, 2023 FLORIDA BUILDING CODE, AND ALL LOCAL CODES OR REGULATIONS THAT MAY APPLY TO THE PROJECT.



Pennoni Project No. CLWRC24007

MENSIONS MUST BE VERIFIED BY CONTE AND OWNER MUST BE NOTIFIED OF ANY REPANCIES BEFORE PROCEEDING WITH

ATION PHAS FON RECREA BUILDING - MILK. JR. AVE. ROS



ALL DOCUMENTS PREPARED BY PENNONI ASSOCIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS OF THE EXTENSIONS OF THE PROJECT OR ON ANY OTHER OR ADAPTATION BY PENNONI ASSOCIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL INDEMNIFY AND HOLD HARMLESS PENNONI ASSOCIATE

FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPEN ARISING OUT OF OR RESULTING THEREFROM. PROJECT CLWRC24007 DRAWING SCALE AS NOTED DRAWN BY APPROVED BY CAG

ELECTRICAL DESIGN

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2150 Range Road

Clearwater, FL 33765

CR CARD READER AS NOTED DC DOOR CONTACT 2" AFF OR AS NOTED KEYPAD 48" AFF OR AS NOTED MOTION DETECTOR AS NOTED ELECTRIC STRIKE

WALL ASSEMBLY - THE 1, 2, 3, OR 4 HOUR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES. a. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS CONSIST OF NOMINAL 2" x 4"

BY 1-3/8" DEEP CHANNELS SPACED MAX. 24" O.C. b. WALLBOARD GYPSUM - ½" OR ½" THICK, 4 FT WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES

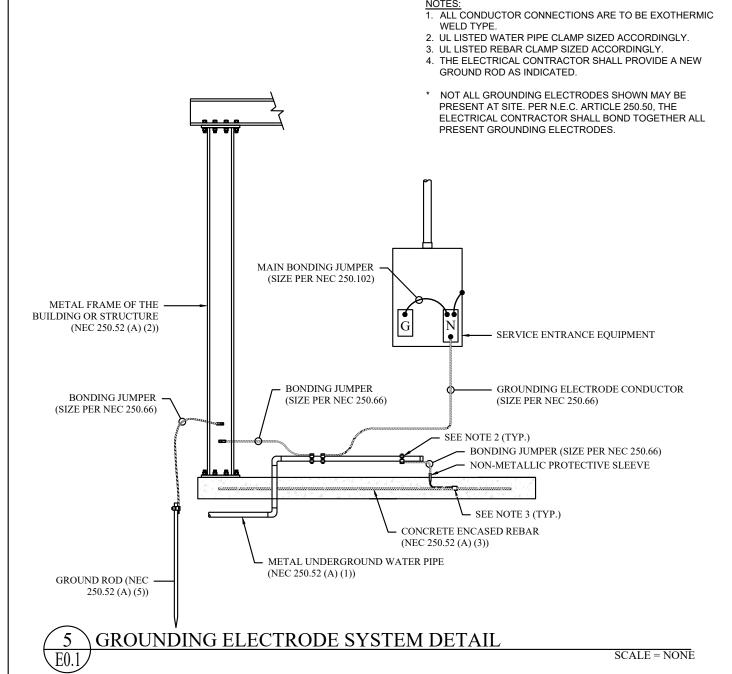
LUMBER SPACED 16 INCHES O.C. WITH NOMINAL 2" x 4" LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN. 3-5/8" WIDE

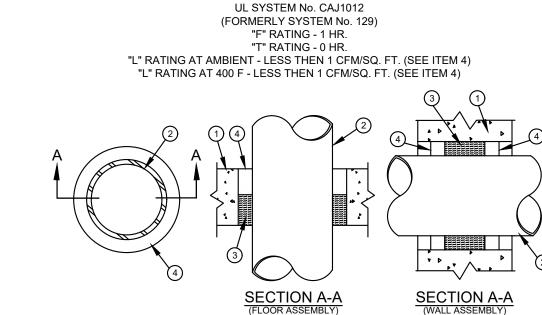
DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAMETER OF OPENING IS 13 ½".
PIPE OR CONDUIT - NOMINAL 12" DIA. (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL CONDUIT; NOM. 4" DIAMETER (OR SMALLER) STEEL ELECTRICAL CONDUIT MECHANICAL OR TYPE L (OR HEAVIER) COPPER TUBING OR NOM. 1" DIA (OR SMALLER) FLEXIBLE STEEL CONDUIT. FILL, VOID OR CAVITY MATERIALS - CAULK - CAULK FILL MATERIAL INSTALLED TO COMPLETELY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WALLBOARD AND W/ A MIN. X" DIA. BEAD OF CAULK APPLIED TO PERIMETER OF PIPE OR CONDUIT AT ITS EGRESS FROM THE WALL. CAULK INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY "F" RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY "T" RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED AS TABULATED BELOW:

MAX PIPE OR CONDUIT (DIA IN.) ANNULAR SPACE "F" RATING 0 TO ¾₆ IN. 1/4 TO 1/2 1 OR 2 0+. 1 OR 2 3 OR 4 3 OR 4 0 TO 1/4 1/4 TO 1/2 3 OR 4 3/16 TO 3/8 1 OR 2

+ WHEN COPPER IS USED. "T" RATING IS 0 H. MINNESOTA MINING & MFG. CO. - TYPES CP-25 S/L, CP-25 N/S, CP-25 WB, CP-25 WB+ * BEARING THE UL CLASSIFICATION MARKING

1, 2, 3, 4 HOUR FIRE RATED GYP. / STUD WALL ASSEMBLY





FLOOR OR WALL ASSEMBLY - MIN. 5" THICK REINFORCED NORMAL WEIGHT (100-150 pcf) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX. DIAMETER OF OPENING IS 6 INCHES. SÉE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

THROUGH - PENETRANTS - ONE METALLIC PIPE OR CONDUIT TO BE CENTERED WITHIN FIRESTOP SYSTEM. A NOM ANNULAR SPACE OF 3/4" IS REQUIRED WITHIN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR CONDUITS MAY BE USED: a. STEEL PIPE - NOM 4" DIA (OR SMALLER) SCHEDULE 5 (OR HEAVIER) STEEL PIPE. b. CONDUIT - NOM 4" DIA (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR STEEL CONDUIT.

PACKING MATERIAL - MIN 3" THICKNESS OF MIN 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS FILL MATERIAL. PACKING MATERIAL TO BE CENTERED IN WALLS MID-DEPTH AND RECESSED TO ALLOW FOR INSULATION OF FILL, VOID OR CAVITY MATERIAL* - SEALANT OR FOAM - MIN 1/2" THCKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR. IN WALLS, FILL MATERIAL TO BE APPLIED ON EACH SIDE OF PACKING MATERIAL. FOAMED SILICONE TO BE INSTALLED

FILL MATERIAL IDENTIFICATION MIN. THK OF FILL MATERIAL, in. TYPE FB-2000 OR FB-2003

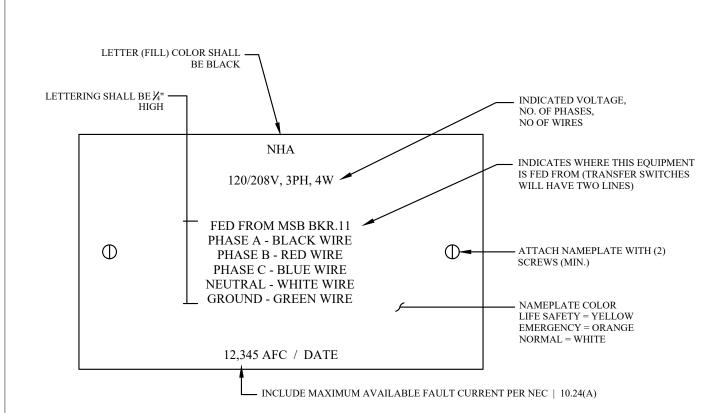
MINNESOTA MINING & MFG Co. - TYPES FB-2000, FB-2000+, FB-2001, FB-2003 (FLOORS ONLY). (NOTE: L RATINGS APPLY ONLY WHEN FB-2000+ * BEARING THE UL CLASSIFICATION MARKING

SCALE = NONE

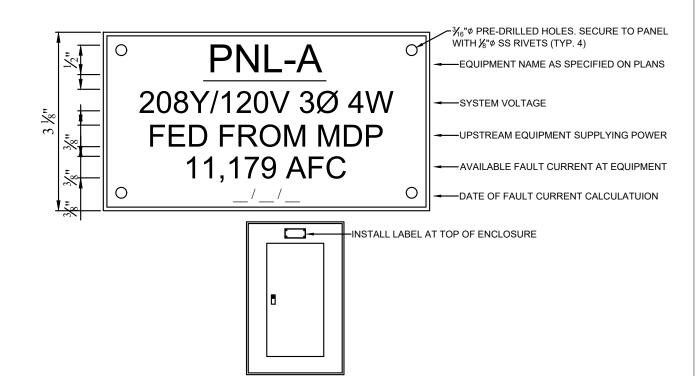
AS DESCRIBED IN THE MANUFACTURER'S APPLICATION INSTRUCTIONS AT A DENSITY OF 14 pcf MIN TO 21 pcf MAX. THE THICKNESS OF FILL

2 1 HOUR FIRE RATED MASONRY FLOOR / WALL

MATERIAL IS DEPENDANT UPON THE TYPE OF FILL MATERIAL AS SHOWN IN THE TABLE BELOW:



6 ELECTRICAL EQUIPMENT NAMEPLATE DETAIL SCALE = NONE



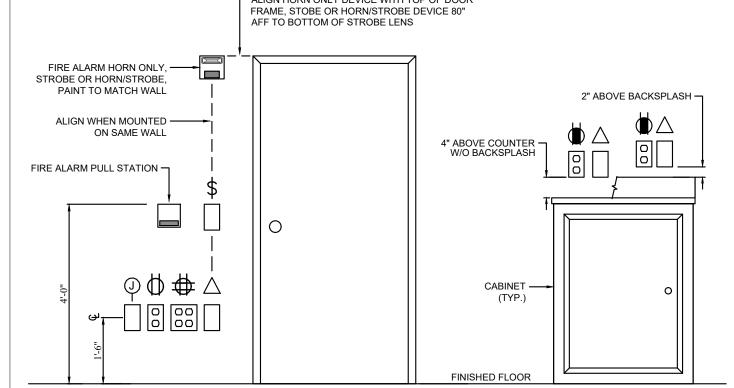
ALL DISTRIBUTION EQUIPMENT SUCH AS PANELBOARDS, SWITCHBOARDS, DISCONNECTS, TRANSFORMERS, ETC. SHALL BE

- PROVIDED WITH AN EQUIPMENT LABEL PER THE REQUIREMENTS OF THIS DETAIL. LABELS SHALL BE 2-PLY ENGRAVED PLASTIC LAMINATE WITH BLACK TYPEFACE LETTERS., LABEL BACKGROUND SHALL
- FOLLOW THE BELOW COLOR SCHEME: a. NORMAL POWER - WHITE b. UPS POWER - BLUE
- c. LIFE SAFETY POWER YELLOW
- LABEL MATERIAL SHALL BE DURABLE, UV STABLE, RATED FOR OUTDOOR USE, AND ABRASION RESISTANT. WHERE ATTACHED TO NEMA 4X EQUIPMENT, LABELS SHALL IN ADDITION BE CHEMICAL RESISTANT.

 LABELS SHALL BE PERMANENTLY ATTACHED TO ENCLOSURE COVER WITH RIVETS UNLESS DOING SO COMPROMISES ITS NEMA / IP
- RATING. LABELS FOR ENCLOSURES WITH WELDED SEAMS AND GASKETED DOORS SUCH AS THOSE RATED NEMA 12 OR NEMA 4 SHALL BE INSTALLED USING PERMANENT WEATHER-, UV-, AND TEMPERATURE-RESISTANT DOUBLE-SIDED MOUNTING TAPE ONLY. A SUBMITTAL WITH A COMPLETE LIST OF EQUIPMENT LABELS SHALL BE PROVIDED FOR ENGINEER APPROVAL PRIOR TO ORDERING.
- LABELS SHALL INDICATE NO LESS THAN THE FOLLOWING:
- THE NOMINAL SYSTEM VOLTAGE WHICH SAID EQUIPMENT IS CONNECTED TO.
- THE EQUIPMENT NAME SUPPLYING POWER TO SAID EQUIPMENT. d. THE AVAILABLE FAULT CURRENT AT SAID EQUIPMENT.

\ PANEL LABEL DETAIL

ALIGN HORN ONLY DEVICE WITH TOP OF DOOR



SCALE = NONE

<u>NOTES:</u> 1. MOUNTING HEIGHTS SHOWN ARE FROM FINISHED FLOOR (A.F.F.), UNLESS OTHERWISE NOTED. LOCATIONS OF OUTLETS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL TAKE PRECEDENCE OVER

- THESE MOUNTING HEIGHTS. FIELD LOCATE OUTLETS WITH ARCHITECT DURING ROUGH-IN. INSTALL OUTLETS THAT ARE IN CLOSE PROXIMITY ON THE SAME CENTERLINE. OUTLETS THAT ARE
- WITHIN 2'-0" HORIZONTALLY AND WITHIN 1'-0" VERTICALLY SHALL BE INSTALLED ON THE SAME HORIZONTAL CENTERLINE LOCATED HALF WAY BETWEEN THE HEIGHTS SHOWN. OUTLETS THAT ARE MORE THAN 1'-0" APART VERTICALLY SHALL BE INSTALLED ON THE SAME VERTICAL CENTERLINE. . VERIFY MOUNTING HEIGHT WITH LOCAL AUTHORITY.
- ADA REQUIREMENTS SHALL SUPERCEDE STANDARD MOUNTING HEIGHTS WHEN THERE IS A

7 \ STANDARD MOUNTING HEIGHTS DETAIL



PROVIDE ARC FLASH HAZARD LABELING AND FIELD MARK ALL ELECTRICAL EQUIPMENT AS PART OF ARC FLASH RISK ASSESSMENT PER 2015 EDITION OF NFPA 70E 130.5(D). THE LABEL MUST CONTAIN

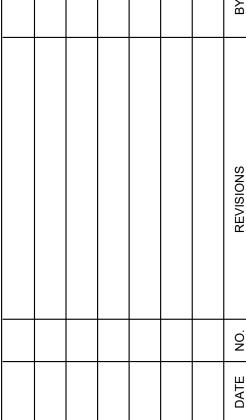
- THE FOLLOWING INFORMATION: KNOWN SYSTEM VOLTAGE.
- 2. ARC FLASH BOUNDARY. 3. AT LEAST ONE OF THE FOLLOWING: a. AVAILABLE INCIDENT ENERGY AND THE CORRESPONDING DISTANCE, OR THE ARC FLASH PPE CATEGORY IN TABLE 130.7(C)(15)(A)(b) OR 130.7(C)(15)(B) FOR THE
- FOUIPMENT BUT NOT BOTH b. MINIMUM ARC RATING OF CLOTHING. c. SITE-SPECIFIC LEVEL OF PPE.

4 ARC FLASH WARNING LABEL REQUIREMENTS DETAIL



MENSIONS MUST BE VERIFIED BY CONTE AND OWNER MUST BE NOTIFIED OF ANY REPANCIES BEFORE PROCEEDING WITH

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PROJECT	CLWRC24007			
DATE	10/21/24			
DRAWING SCALE	AS NOTED			
DRAWN BY	КТК			
APPROVED BY	CAG			

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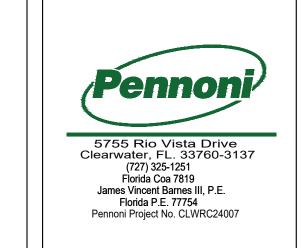
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PROJECT	CLWRC24007
DATE	10/21/24
DRAWING SCALE	AS NOTED
DRAWN BY	KTK
APPROVED BY	CAG

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NUMBER OF POLES

VOLTAGE –

AMPERAGE RATING

└ NEMA WEATHER RATING

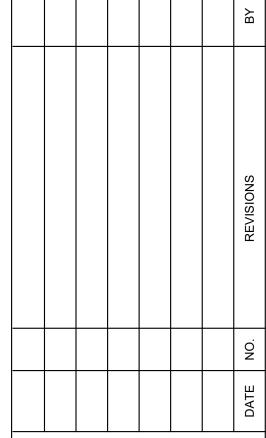
("NF" DENOTES NON-FUSED)

└ FUSE SIZE



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PROJECT CLWRC24007

DATE 10/21/24

DRAWING SCALE AS NOTED

DRAWN BY KTK

APPROVED BY CAG

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E2.0

. NEW UTILITY TRANSFORMER 120/208V, 3-PHASE.

2. NEW UTILITY APPROVED METER SOCKET.

3. NEW SERVICE WIREWAY, NEMA 3R.

4. NEW PANEL "P", 120/208V, 3-PHASE, 4-WIRE, 250A, MCB, NEMA 3R.

5. NEW SURGE PROTECTION DEVICE.

6. NEW 20A RECEPTACLE WITH WEATHERPROOF ENCLOSURE. CIRCUIT P-10.

NEW SERVICE RATED 3 POLE, 208V, 200A WITH 150A FUSES INSTALLED, NEMA 3R DISCONNECT.

8. NEW STAINLESS STEEL JUNCTION BOX.

9. EXISTING PANEL "HOUSE", 120/240V, 1-PHASE, 3-WIRE, 150A, MCB, NEMA 1.

10. NEW SPLICE BOX ABOVE CEILING FOR PANEL "HOUSE" FEEDERS

SERVICE ENTRANCE FEEDER SCHEDULE

(CU400SE

400A SERVICE ENTRANCE FEEDER: 1 SET OF - (3) 600 MCM CU & (1) 600 MCM CU NEUTRAL IN 4" CONDUIT

(CU250SE

250A SERVICE ENTRANCE FEEDER: 1 SET OF - (3) 250 MCM CU & 1) 250 MCM CU NEUTRAL IN 2 ½" CONDUIT

150A SERVICE ENTRANCE FEEDER: 1 SET OF - (2) 1/0 CU & (1) 1/0 (1ØCU150SE) CU NEUTRAL IN 1 ½" CONDUIT

FEEDER SCHEDULE

150A FEEDER: 1 SET OF - (2) 1/0 CU, (1) 1/0 CU NEUTRAL & (1) #6 CU E.G.C. IN 2" CONDUIT

PANEL LABELING NEW OR EXISTING — DENOTES CONDITION "A" — DENOTES NAME

277/480V — DENOTES VOLTAGE 3Ø, 4-WIRE DENOTES PHASE, SYSTEM 200A — DENOTES AMPS

MCB OR MLO — DENOTES PANEL TYPE NEMA__ DENOTES ENCLOSURE RATING

1. EXISTING UTILITY TRANSFORMER 120/240V, 3-PHASE.

2. EXISTING UTILITY METER.

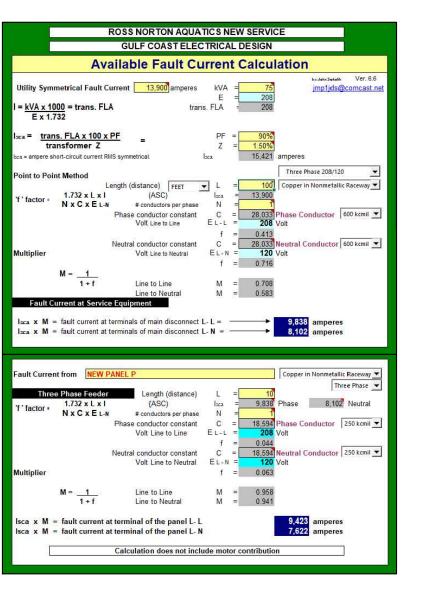
3. EXISTING PANEL "P", 120/240V, 3-PHASE, 4-WIRE, 200A, MLO, NEMA 1.

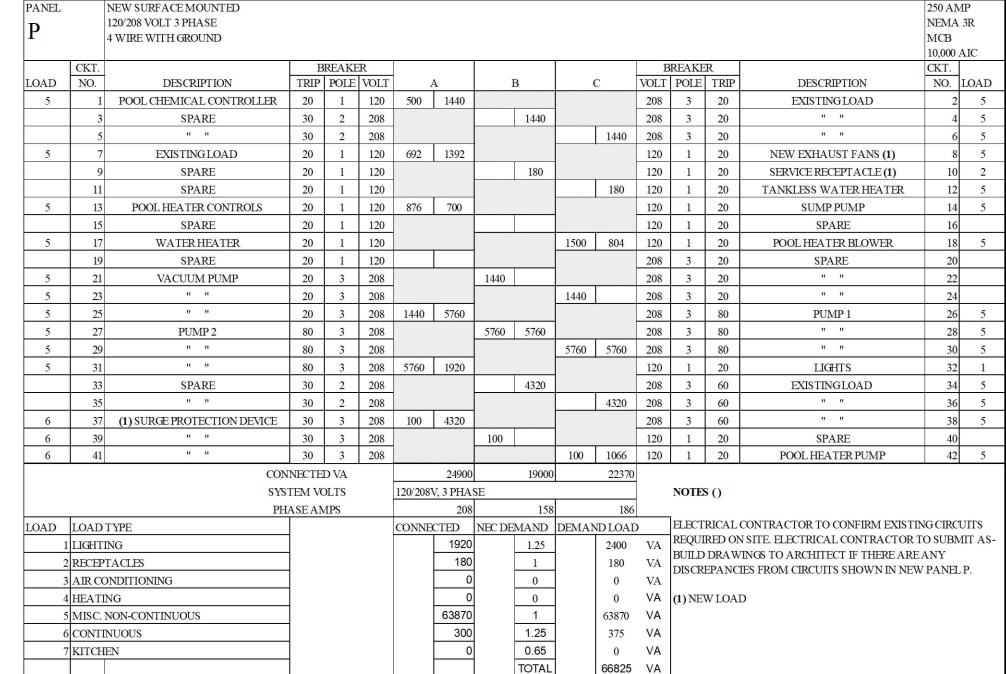
4. EXISTING WIREWAY, NEMA 1.

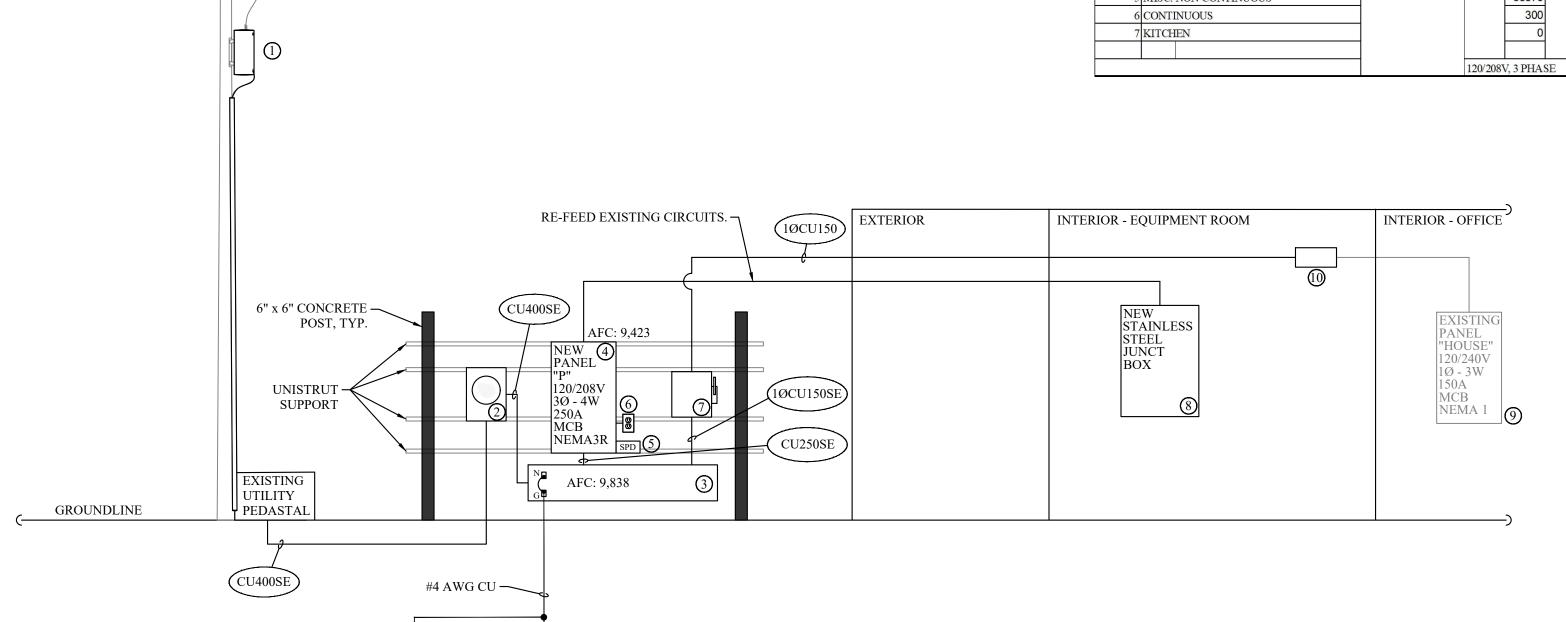
EXISTING 3-POLE, 240V, 200A WITH 200A FUSES INSTALLED, NEMA 1 DISCONNECT.

EXISTING 2-POLE, 240V, 200A WITH 150A FUSES INSTALLED, NEMA 1 DISCONNECT.

. EXISTING PANEL "HOUSE", 120/240V, 1-PHASE, 3-WIRE, 150A, MCB, NEMA 1.



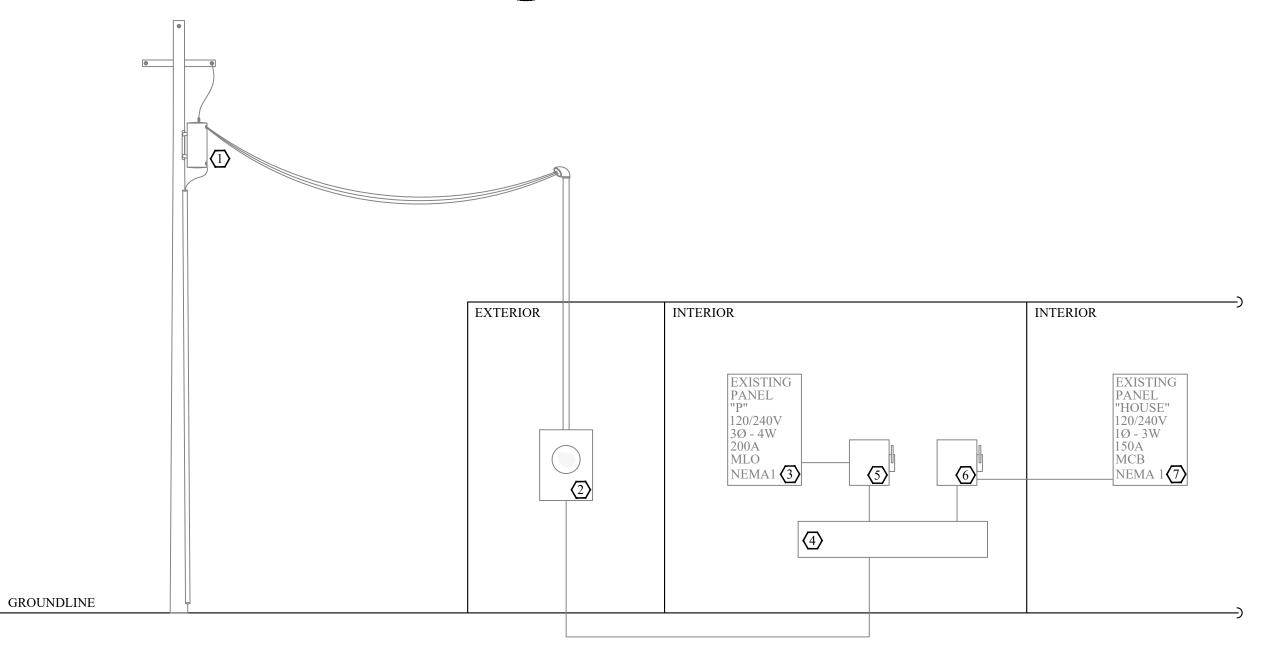




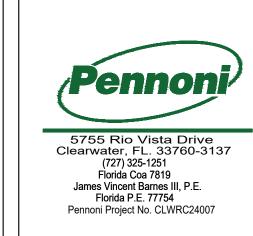
PRICE NEW EXTERIOR SWITCHGEAR AS NEMA3R AND PROVIDE LINE ITEM PRICING TO PROVIDE STAINLESS STEEL COMPONENTS.

66825 VA

POWER RISER DIAGRAM (NEW)

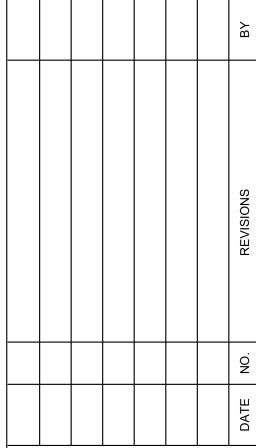


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POWER RISER DIAGRAM (EXISTING)