## GENERAL ELECTRICAL NOTES

1. CONTRACTOR SHALL VERIFY EXISTING JOB SITE CONDITIONS DURING THE BIDDING PERIOD TO OBTAIN THE SCOPE OF ELECTRICAL WORK INVOLVED AS A RESULT OF ARCHITECTURAL MODIFICATIONS TO THE EXISTING STRUCTURE. THE SCOPE OF WORK SHALL INCLUDE MATERIALS AND OUTLETS CONSISTING OF FIXTURES, DEVICES, EQUIPMENT OR APPARATUS WHICH MUST BE ROUTED, RELOCATED, OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE PROVIDED SO THAT THE INDICATED REMODELING MAY BE ACCOMPLISHED.

2. RE-ESTABLISH SERVICE TO ALL OUTLETS THAT MAY BE INTERRUPTED BECAUSE OF REMODELING WORK.

3. PROVIDE ALL APPURTENANCES REQUIRED TO REROUTE, RELOCATE, REMOVE, OR REINSTALL ALL ITEMS DESCRIBED IN THESE NOTES.

4. RETAIN ALL MATERIALS BEING REMOVED AND NOTIFY BUILDING MANAGER FOR DIRECTION AS TO MATERIALS TO BE SAVED OR DISCARDED. DELIVER THOSE MATERIALS TO BE SAVED TO THE LOCATION ON THE PREMISES AS DIRECTED BY THE BUILDING MANAGER.

5. REFER TO ARCHITECTURAL/INTERIOR DRAWINGS FOR EXACT LOCATIONS OF LIGHTING FIXTURES AND OUTLETS. ALL WALL POWER AND TELEPHONE OUTLETS SHALL BE MOUNTED AT 18" A.F.F. TO CENTER AND ALL LIGHT AND DIMMER SWITCHES SHALL BE MOUNTED AT 48" A.F.F TO CENTER. EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE ON THE PLANS. DIMENSIONS NOTED ON ARCHITECTURAL/INTERIOR DESIGNER'S DRAWINGS SHALL PREVAIL.

6. NEW EXIT LIGHT FIXTURES SHALL MATCH EXISTING EXIT LIGHT FIXTURE IN SAME AREA.

7. CONTRACTOR SHALL PROVIDE, INSTALL AND CONNECT NEW BATTERY BACK-UP (MINIMUM 1100 LUMEN) IN EXISTING RELOCATED LIGHT FIXTURES FOR EMERGENCY LIGHTING, MINIMUM 1.5 HR. OF BACK-UP. (TYPICAL FOR ALL NON-GENERATOR BACK-UP SYSTEMS.)

8. CONTRACTOR MAY COMBINE WIRES IN ONE CONDUIT FOR CONVENIENCE OF INSTALLATION, PROVIDED ALL THE REQUIREMENTS OF THE N.E.C. ARE OBSERVED.

9. ALL ELECTRICAL EQUIPMENT IS SHOWN DIAGRAMMATICALLY. EXACT LOCATIONS ARE TO BE DETERMINED IN THE FIELD

10. THE INSTALLATION SHALL COMPLY WITH SPECIFICATIONS AND ALL REQUIREMENTS OF THE LATEST EDITION OF THE N.E.C., OSHA, STATE AND LOCAL CODES.

- FLORIDA BUILDING CODE 2023, 8TH EDITION
- FLORIDA FIRE PREVENTION CODE 2028, 8TH EDITION
- NFPA 70 NATIONAL ELECTRIC CODE 2023 - NFPA 72 NATIONAL FIRE ALARM CODE 2022
- NFPA 101 LIFE SAFETY CODE 2024

11. ALL WIRE SHALL BE COPPER. ALL WIRE, CONDUIT AND BREAKERS SHALL BE #12 COPPER WIRE (THHN OR THWN), 1/2" CONDUIT AND 20 AMP SINGLE POLE BREAKERS UNLESS OTHERWISE NOTED. (TYPICAL)

12. WHEN BRANCH CIRCUIT LENGTH EXCEEDS 75 FEET FROM PANEL, WIRING SHALL BE INCREASED TO #10 AWG WITH #10 AWG GROUND. WHEN BRANCH CIRCUIT LENGTH EXCEEDS 150 FEET FROM PANEL, BRANCH WIRING SHALL BE INCREASED TO #8 AWG WITH #8 AWG GROUND.

- 13. PROVIDE #6 COPPER GROUND TO TELEPHONE BACKBOARD.
- 14. PROVIDE GROUND CONDUCTOR IN ALL RACEWAYS.

HOOD ANSUL SYSTEM.

15. CONTRACTOR SHALL UPDATE PANEL DIRECTORY AS PER WIRING IN FIELD.

16. CONTRACTOR SHALL USE EXISTING SPARE BREAKERS/BLANKS IN PANEL(S) AND CIRCUITS MADE AVAILABLE THROUGH DEMOLITION PRIOR TO ADDING NEW PANEL(S). VERIFY IN FIELD.

17. THE INSTALLATION OF WIRING, RACEWAY AND DEVICES FOR THE FIRE ALARM SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CITY CODES, NFPA CODES AND UNIFORM RULE 4A-48, RULES AND REGULATIONS OF THE STATE FIRE MARSHAL'S OFFICE F.S. 633.01 AND 633.701.

18. THE FIRE ALARM CONTRACTOR SHALL PERFORM A SITE VISIT PRIOR TO BID TO VERIFY ENOUGH POWER EXISTS TO OPERATE ALL NEW AND EXISTING FIRE ALARM DEVICES. INCLUDE AN EXPANDER PANEL IF REQUIRED.

19. ALL CIRCUIT BREAKERS FOR MECHANICAL EQUIPMENT SHALL BE HACR RATED.

20. ALL NEW BREAKERS ADDED TO EXISTING PANELS SHALL HAVE SAME A.I.C. RATING AS EXISTING BREAKERS UNLESS NOTED OTHERWISE.

21. VOLTAGE DROP HAS BEEN CALCULATED IN COMPLIANCE WITH FBC ENERGY CONSERVATION C405.6.3 AND NEC 210.19(A)(1)FPN#4. VOLTAGE DROP IN COMBINED CONDUCTORS TO BE MAXIMUM OF 5% AT DESIGN LOAD.

22. FIRE ALARM PERMIT DRAWINGS SHALL BE PREPARED AND SUBMITTED BY THE FIRE ALARM SYSTEM CONTRACTOR.

23. ANY NEW FIRE ALARM VISUAL DEVICES SHALL HAVE A CANDELA RATING OF 75 UNLESS NOTED OTHERWISE. ANY NEW FIRE ALARM AUDIO DEVICE SHALL HAVE A MINIMUM 85 DECIBEL OUTPUT. ANY NEW FIRE ALARM SPEAKER DEVICE SHALL BE 0.5 WATT UNLESS NOTED OTHERWISE.

24. LIGHT FIXTURE SUPPORTED BY CEILING GRID SHALL BE SUPPORTED AS PER FIELD TECHNICAL INFORMATION #40. LIGHT FIXTURE WEIGHING LESS THAN 10 LBS SHALL HAVE (1) 12 GA HANGWIRE CONNECTED FROM THE FIXTURE TO THE STRUCTURE ABOVE. LIGHT FIXTURES WEIGHING MORE THAN 10 LBS SHALL HAVE (2) 12 GA WIRES ATTACHED AT OPPOSING CORNERS OF THE LIGHT FIXTURE TO THE STRUCTURE ABOVE.

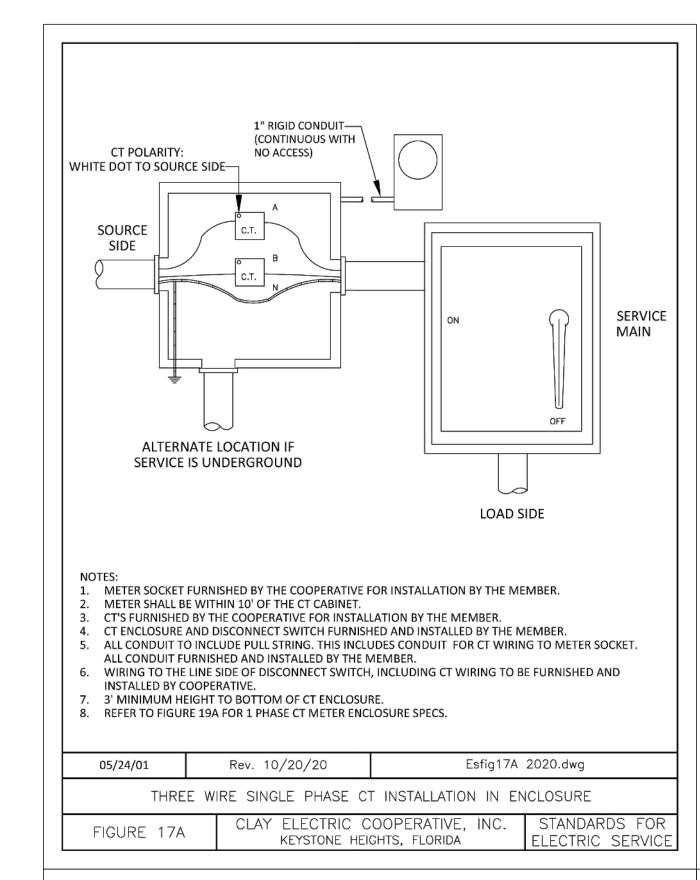
25. MINIMUM EMERGENCY ILLUMINATION SHALL BE PROVIDED FOR A PERIOD OF 1½ HOURS IN THE EVENT OF FAILURE OF NORMAL LIGHTING, WITHIN THE WORK AREAS. EMERGENCY LIGHTING FACILITIES SHALL BE ARRANGED TO PROVIDE INITIAL ILLUMINATION THAT IS AT LEAST AN AVERAGE OF 1 FOOTCANDLE MEASURED ALONG THE PATH OF EGRESS AT FLOOR LEVEL. FBC 2020 1008, EXISTING FBC 2020 805.7.

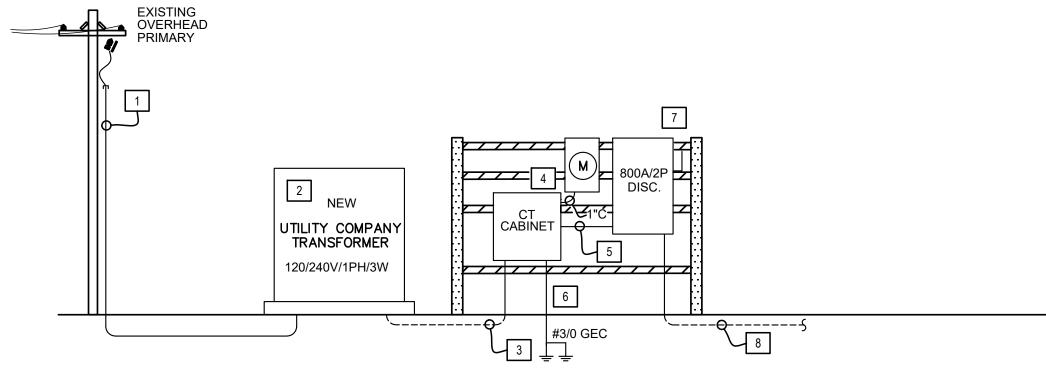
26. BREAKERS FOR ALL MULTIPLE CIRCUIT HOMERUNS WHICH SHARE A COMMON NEUTRAL SHALL BE CONNECTED WITH BREAKER TIES.

27. 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 SECTION AND CHAPTER 633, FLORIDA STATUTES. FBC 110.8.4.4 2020.

28. ALL ELECTRICAL BOXES INSTALLED IN A FIRE RATED WALL SHALL BE SEPARATED BY A MINIMUM OF 24" OR BE PROTECTED BY LISTED PUTTY PADS. ALL LISTED ELECTRICAL BOXES INSTALLED IN A FIRE RATED WALL SHALL BE SEPARATED BY LISTING DISTANCE OF THE BOX OR BE PROTECTED BY LISTED PUTTY PADS. ELECTRICAL BOXES SHALL COMPLY WITH ALL CRITERIA SET FORTH IN FBC 714.3.2.

29. GC SHALL PROVIDE CONTACTOR FOR ALL POWERED ITEMS UNDER A COMMERCIAL KITCHEN HOOD TO SHUT POWER BY

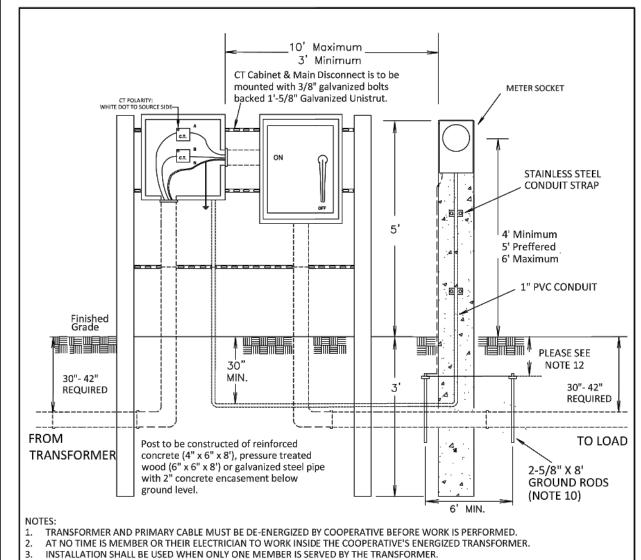




RISER DIAGRAM NOT TO SCALE

## RISER NOTES

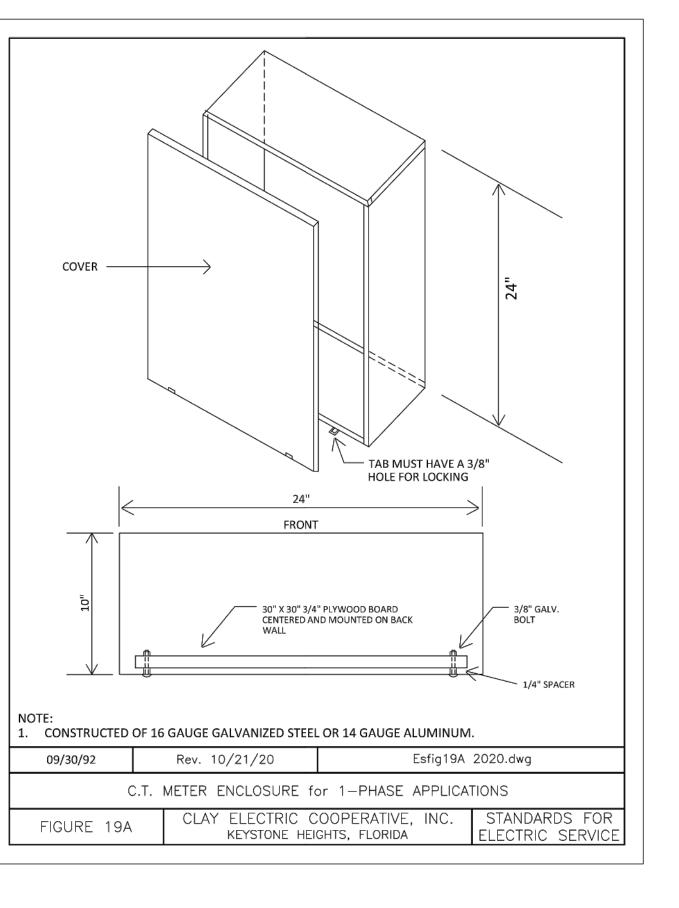
- 1. PROVIDE 2" CONDUIT WITH PULL STRING FOR PRIMARY CONDUCTORS. COORDINATE WITH LOCAL UTILITY FOR EXACT INSTALLATION REQUIREMENTS AND MATERIAL APPROVAL.
- 2. PAD MOUNTED UTILITY TRANSFORMER,120/240V/1Ø/3W PROVIDED BY UTILITY COMPANY. COORDINATE WITH LOCAL UTILITY COMPANY FOR EXACT LOCATION.
- 3. 800A SERVICE LATERAL. PROVIDE (2) SETS OF (3) 600MCM CU IN 3" CONDUIT.
- 4. NEW 24"X24" CT CABINET AND METER. COORDINATE WITH LOCAL UTILITY. GROUND PER LOCAL UTILITY REQUIREMENTS.
- 5. 800A FEEDER. PROVIDE (2) SETS OF (3) 600MCM & #3/0 GEC IN 3" CONDUIT.
- 6. PROVIDE #3/0 GEC. PROVIDE (2) 3/4" X 10' COPPER GROUND RODS. REFER TO GROUNDING DETAIL ON THIS SHEET FOR MORE DETAILS.
- 7. PROVIDE 800A, 3P, NEMA-3R DISCONNECT. PROVIDE 800A TIME DELAY, DUAL ELEMENT FUSES. BOND NEUTRAL AND GROUND IN DISCONNECT.
- 8. PROVIDE (2) 3" CONDUIT WITH PULL STRING. NEW PANEL AND CONDUCTOR SHALL BE INSTALLED UNDER SEPARATE PERMIT COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.



- METER, CT'S AND ASSOCIATED CT WIRING SHALL BE FURNISHED AND INSTALLED BY THE COOPERATIVE. METER SOCKET FURNISHED BY THE COOPERATIVE FOR INSTALLATION BY THE MEMBER.
- ALL PRIMARY, SECONDARY, AND 1" PVC CT CONDUIT SHALL BE FURNISHED AND INSTALLED BY THE MEMBER. ALL CONDUIT TO INCLUDE PULL STRING.
- METER POLE TO BE FURNISHED AND INSTALLED BY THE MEMBER AS SPECIFIED ABOVE CONCRETE OR FIBERGLASS POST (4"x6"x8' OR 6"X6"x8') BURIAL DEPTH 3'-0" MIN. CURRENT TRANSFORMERS (CT'S) TO BE FURNISHED AND INSTALLED BY THE COOPERATIVE
- SERVICE CONDUCTORS FROM SECONDARY SIDE OF TRANSFORMER SHALL BE FURNISHED AND INSTALLED, INCLUDING CONNECTIONS, BY THE MEMBER. COOPERATIVE WILL FURNISH ITS' STANDARD CONNECTORS ON TRANSFORMER SECONDARY.
- ONE 5/8" X 8' GROUND ROD MAY BE USED IF MEASURED RESISTANCE TO GROUND IS 25 OHMS OR LESS. THE UPPER END OF THE GROUNDING ROD SHALL BE FLUSH WITH OR BELOW FINISHED GRADE UNLESS THE ABOVE GROUND END AND
- THE GROUNDING ROD CONDUCTOR ATTACHMENT ARE PROTECTED AGAINST PHYSICAL DAMAGE PER NEC. MEMBER SHALL ADHERE TO COUNTY CODE REQUIREMENTS IN CONJUNCTION WITH THE NEC.

12/20/17	Rev. 10/21/20				Esfig18A 2020.dwg				
THREE	WIRE	SINGLE	PHASE	СТ	INSTALLATION	AT 7	ΓRΑΙ	NSFORMER	
		CLAY F	LECTRI	n (	COOPERATIVE	INC		STANDARDS	FOF

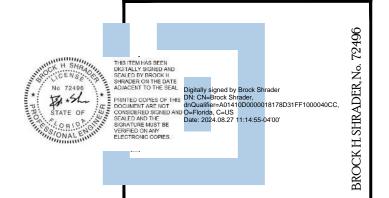
12/20/17		Rev. 10/21/20	Esfig18A 2020.dwg			
THREE	WIR	E SINGLE PHASE CT	INSTALLATION AT TRA	NSFORMER		
FIGURE 18A		CLAY ELECTRIC C KEYSTONE HEI		STANDARDS FOR ELECTRIC SERVICE		





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SHEET TITLE
ELECTRICAL RISER PROJECT TITLE

ROMERO

BECTOTO SERVICE INC.

**ISSUE** DATE REMARK 08/26/2024 FOR CONSTRUCTION

JOB#: XXX

DRAWNBY: XXX

CHECKED BY: XXX

SHEET#