

**COMMONWEALTH OF KENTUCKY  
DEPARTMENT FOR FACILITIES AND SUPPORT SERVICES  
DIVISION OF ENGINEERING AND CONTRACT ADMINISTRATION**

**INVITATION TO BID NO:** RFB-232-20

**DATE:** June 16, 2020

**FOR:** FFA Cabins, Shop and Miscellaneous Construction  
FFA Leadership Training Center  
Hardinsburg, Kentucky

**ADDENDUM NO. Two (2)**

**BIDDER SHALL CONFORM TO THE FOLLOWING CHANGES AS SAME SHALL BECOME BINDING  
UPON THE CONTRACT TO BE ISSUED IN RESPONSE TO THIS INVITATION TO BID.**

Item 1: Refer to addendum to be distributed by Lynn Imaging for all additions, deletions, and/or changes to specifications and/or drawings.

**END OF ADDENDUM**

Invitation to Bid No.	RFB-232-20
For:	FFA Cabins, Shop and Miscellaneous Construction FFA Leadership Training Center Hardinsburg, Kentucky

Margaret MacDonald, Statewide Procurement Branch Manager  
Division of Engineering and Contract Administration

# Addendum 02



## FFA – Cabins, Shop & Misc. Construction

Engineering File #: 540-C97Q-FF19-00

Hardinsburg, Kentucky, Breckinridge County

## Addendum 02

Date: 16 June 2020

THE BIDDING AND GENERAL DOCUMENTS, NOTES, AND DRAWINGS ARE CLARIFIED OR CHANGED IN ACCORDANCE WITH THE FOLLOWING. THE BIDDERS SHALL ACKNOWLEDGE RECEIPT OF THIS ADDENDUM ON THE PROPOSAL FORM IN THE SPACE PROVIDED.

### ARCHITECTURAL ITEMS:

#### ARCHITECTURAL SPECIFICATION ITEMS:

- A1.1 Refer to Specification Section, 033000 – CAST-IN-PLACE CONCRETE – Clarification for rebar coatings: No coating is required.

#### GENERAL ARCHITECTURAL ITEMS:

- A1.2 There is no Geotechnical Report:
  - a. It is assumed there is no rock based on FFA's experience at this site.
  - b. Any spoil and rock removal from augured piers can be dumped on site, no hauling required.

### MECHANICAL, ELECTRICAL & PLUMBING ITEMS:

#### GENERAL MECHANICAL ITEMS:

- A1.3 Testing and Balancing (TAB) services for HVAC systems shall be provided by the Commonwealth, not the Contractor.
- A1.4 Sheet U101 –Reference sheet note description #2 – add the following, "Concrete encase secondary underground conduits from transformer to transfer switch and generator to transfer switch."
- A1.5 Sheet E102 – Existing fire alarm control panel is located in room 146. Contractor shall match panel characteristics for all new work for connections and expansions. Existing panel is a Silent Knight Model.

#### ELECTRICAL DRAWING ITEMS:

- A1.6 Question 1:

Please provide information on the three buildings underground electrical service entrances. Specifically, where we are to extend them to. Reference plan page E101 Electrical Key Note #6 and plan page E102 Electrical Key Note #4.

#### Response 1:

- a. Cabins: Reference drawings A100, E103 – "One Line Diagram", and attached Electrical Service sketch for location of utility transformer and panel for Cabins A and B.

*Response continues next page*

# Addendum 02



- b. Maintenance Shop: Reference drawing A100 and attached Electrical Service sketch for location of utility transformer for the Maintenance Shop. For new electrical service at Maintenance Shop, coordinate with local utility (KU) for new service connection to existing transmission lines on property. Coordinate transformer/service panel location with Owner and GC, and provide site repair, re-seeding, etc. as required to restore site after work has been completed.

A1.7 Question 2:

On the plan page E103 One Line Diagram for the Shop, the main disconnect switch is 1 phase and the panel is 3 phase. Please clarify which phase is to be used.

Response 2:

Reference drawing E103, panel "AS" (Shop) – the panel shall be single phase, three-wire in lieu of 3 phase, four-wire


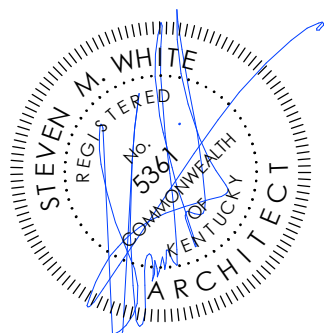
## ELECTRICAL SPECIFICATION ITEMS:

- A1.8 Specifications Section 260519, 3.1 – Clarification - All circuiting shall be in conduit. No MC cabling shall be used.

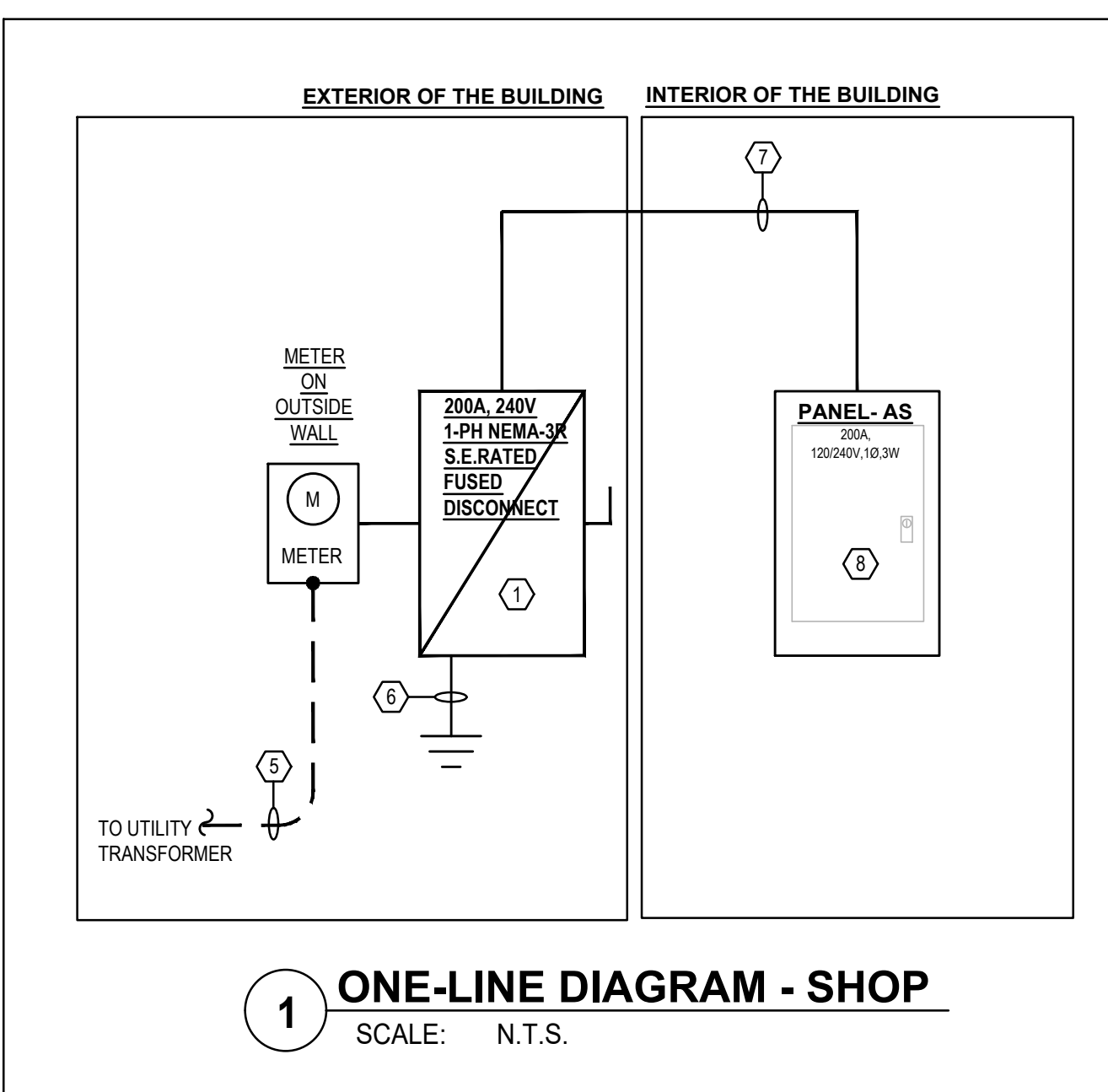
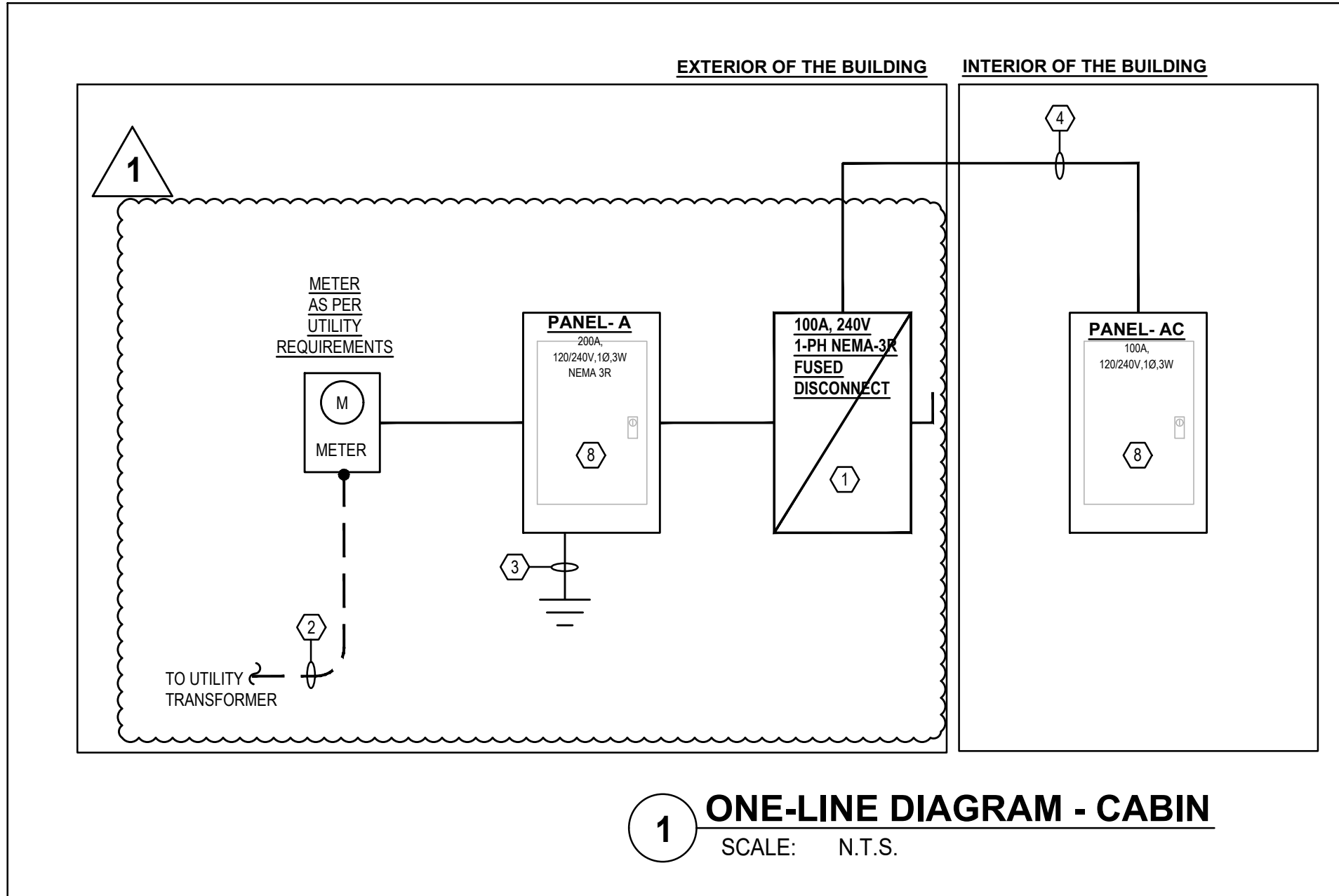
END OF ADDENDUM 02





	DRAWING INFORMATION		FFA CABIN, SHOP & MISC. CONSTRUCTION			
	A&E FILE NO.:	0000.00	SITE PLAN			
	DRAWING DATE:	05/11/2020				
	DRAWN BY:	Author	ACCOUNT NO.	COMMONWEALTH OF KENTUCKY FINANCE AND ADMINISTRATION CABINET DEPARTMENT FOR FACILITIES AND SUPPORT SERVICES DIVISION OF ENGINEERING AND CONTRACT ADMINISTRATION FRANKFORT, KENTUCKY		
	CHECKED BY:	Checker	540-C97Q-FF19-00	<div>WHITE   POLLARD</div> <div>architects, pllc</div> <div>5610 WEST THIRD STREET</div> <div>LEXINGTON, KENTUCKY 40508 tel: 859.469.9177</div>		
PHASE:	RTA					
RTA DATE:	11 MAY 2020				DRAWING NO.	A100
				AS-BUILT DATE:		
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4				8		





- ### ONE-LINE DIAGRAM NOTES
1. VERIFY THE EXACT UTILITY REQUIREMENTS AND LOCATION FOR THE METER AND SERVICE ENTRANCE RATED DISCONNECT IN THE FIELD AND COORDINATE WITH THE ELECTRIC SERVICE PROVIDER.
  2. THREE (3) #2 AWG CU IN 2" CONDUIT. EXTEND THE UNDERGROUND PRIMARY CONDUIT TO THE ELECTRIC SERVICE PROVIDER TRANSFORMER MINIMUM 36 INCHES BELOW GRADE. VERIFY THE EXACT ROUTING OF THE CONDUIT WITH THE ELECTRIC SERVICE PROVIDER.
  3. #8 COPPER GROUNDING ELECTRODE CONDUCTOR BONDED TO BUILDING STEEL, WATER SERVICE AND DRIVEN GROUND ROD.
  4. THREE (3) #2 AWG AND ONE (1) #8 GROUND IN 1-1/2" CONDUIT.
  5. THREE (3) #3/0 AWG CU IN 2-1/2" CONDUIT. EXTEND THE UNDERGROUND PRIMARY CONDUIT TO THE ELECTRIC SERVICE PROVIDER TRANSFORMER MINIMUM 36 INCHES BELOW GRADE. VERIFY THE EXACT ROUTING OF THE CONDUIT WITH THE ELECTRIC SERVICE PROVIDER.
  6. #4 COPPER GROUNDING ELECTRODE CONDUCTOR BONDED TO BUILDING STEEL, WATER SERVICE AND DRIVEN GROUND ROD.
  7. THREE (3) #3/0 AWG AND ONE (1) #6 GROUND IN 2-1/2" CONDUIT.
  8. ELECTRICAL CONTRACTOR SHALL PROVIDE A DEDUCT PER SUBMITTED SCHEDULE OF VALUES/UNIT PRICING IF THE PANELBOARDS ARE PROVIDED AS MAIN LUG ONLY IN LIEU OF MAIN CIRCUIT BREAKER TYPE, IF IT IS ACCEPTABLE TO THE OWNER TO PROVIDE THE MAIN SERVICE DISCONNECT OUTSIDE THE BUILDING.

Diagram showing the exterior and interior of the building for the Cabin. The exterior includes a meter, a 100A, 240V, 1-PH NEMA-3R FUSED DISCONNECT, and a 100A, 120/240V, 10.3W panel. The interior includes a 100A, 120/240V, 10.3W panel. The diagram is labeled "ONE-LINE DIAGRAM - CABIN" and "SCALE: N.T.S."

PANEL A									
MAIN BUS:		200 AMP	MLO	A/C: 42,000 AMPS					
VOLTAGE:		240 /120 VOLT, 1P, 3W	MOUNTING: SURFACE						
LOCATION:		AT UTILITY TRANSFORMER	FED FROM: UTILITY						
NOTE: NEMA 3R RATED FOR EXTERIOR									
DESCRIPTION	CIRCUIT VA	TRIP/POLE	OPTION	PHASE	OPTION	TRIP/POLE	CIRCUIT VA	DESCRIPTION	
CABIN A	5000	100/2		1	A	2	100/2	5000	CABIN B
-	5000	-		3	B	4	-	5000	-
SPARE		100/2		5	C	6		60/2	SPARE
-		-		7	A	8	-	-	-
				9	B	10			
				11	C	12			
				13	A	14			
				15	B	16			
				17	C	18			
				19	A	20			
				21	B	22			
				23	C	24			
				25	A	26			
				27	B	28			
				29	C	30			
CONNECTED KVA:		20 KVA							
CONNECTED AMPS:		83.33 AMPS							
G - INDICATES GROUND FAULT CIRCUIT INTERRUPTER									
A - INDICATES ARC FAULT CIRCUIT INTERRUPTER									
ST - INDICATES SHUNT TRIP									
E - INDICATES EXISTING									

PANEL AC (CABIN)										
MAIN BUS:		100 AMP		MCB		A/C:		22,000 AMPS		
VOLTAGE:		240 /120 VOLT, 1P, 3W				MOUNTING:		SURFACE		
LOCATION:		CABIN				FED FROM:		UTILITY		
NOTE:										
DESCRIPTION	CIRCUIT VA	TRIP/ POLE	OPTION	PHASE			OPTION	TRIP/ POLE	CIRCUIT VA	DESCRIPTION
RECEPTACLES- NORTH WALL	720	20/1	A	1	A	2	A	20/1	360	LIGHTING
RECEPTACLES- NORTH WALL	720	20/1	A	3	B	4		20/2	1200	CU-101
RECEPTACLES- SOUTH WALL	720	20/1	A	5	C	6		-	1200	-
RECEPTACLES- SOUTH WALL	720	20/1	A	7	A	8		20/2	1200	CU-102
RECEPTACLES- EAST WALL	720	20/1	A	9	B	10		-	1200	-
RECEPTACLES- ENTRANCE	720	20/1	A	11	C	12		20/1	100	CCU-101
SMOKE ALARM	200	20/1		13	A	14		20/1	100	CCU-102
	0	20/1		15	B	16		20/1	0	
	0	20/1		17	C	18		20/1	0	
	0	20/1		19	A	20		20/1	0	
	0	20/1		21	B	22		20/1	0	
	0	20/1		23	C	24		20/1	0	
	0	20/1		25	A	26		20/1	0	
	0	20/1		27	B	28		20/1	0	
	0	20/1		29	C	30		20/1	0	
CONNECTED KVA:				10 KVA						
CONNECTED AMPS:				41.17 AMPS						
G - INDICATES GROUND FAULT CIRCUIT INTERRUPTER										
A - INDICATES ARC FAULT CIRCUIT INTERRUPTER										
ST - INDICATES SHUNT TRIP										
E - INDICATES EXISTING										

PANEL AS (SHOP)									
MAIN BUS:		200 AMP	MCB	A/C: 42,000 AMPS					
VOLTAGE:		240 /120 VOLT, 1P, 3W	MOUNTING: SURFACE						
LOCATION:		OFFICE	FED FROM: UTILITY						
NOTE:									
DESCRIPTION	CIRCUIT VA	TRIP/POLE	OPTION	PHASE	OPTION	TRIP/POLE	CIRCUIT VA	DESCRIPTION	
LIGHTING SHOP 1010	840	20/1		1	A	2	30/2	2870	PTAC-101
LIGHTING SHOP 1010	700	20/1		3	B	4	-	2870	-
CANOPY LIGHTING	200	20/1		5	C	6	20/2	1250	WATER HEATER WH-1
OFFICE AND MEZZ LIGHTING	628	20/1		7	A	8	-	1250	-
WELDER RECEPTACLE	4160	50/2		9	B	10	20/1	100	EF-1
	4160	-		11	C	12	20/1	1440	RECEPTACLES-MEZZ
WELDER RECEPTACLE	4160	50/2		13	A	14	20/1	500	DEDICATED RECEPT-FUTURE IT
	4160	-		15	B	16	20/1	1080	OFFICE RECEPTACLE
WELDER RECEPTACLE	4160	50/2		17	C	18	20/1	360	BENCH RECEPTACLE
	4160	-		19	A	20	20/1	360	BENCH RECEPTACLE
DEDICATED RECEPT- COMPRES.	1200	20/1		21	B	22	20/1	1080	RECEPTACLES - SHOP, TOILET
SPARE		20/1		23	C	24	20/1	900	RECEPTACLES - SHOP
SPARE		20/1		25	A	26	20/1	1080	RECEPTACLES - SHOP
SPARE		20/1		27	B	28	20/1	540	RECEPTACLES - SHOP
SPARE		20/1		29	C	30	20/1		SPARE
SPARE		20/1		31	A	32	20/1		SPARE
SPARE		20/1		33	B	34	20/1		SPARE
SPARE		20/1		35	C	36	20/1		SPARE
SPARE		20/1		37	A	38	20/1		SPARE
SPARE		20/1		39	B	40	20/1		SPARE
SPARE		20/1		41	C	42	20/1		SPARE
CONNECTED KVA:		44 KVA							
CONNECTED AMPS:		184.2 AMPS							
G - INDICATES GROUND FAULT CIRCUIT INTERRUPTER									
A - INDICATES ARC FAULT CIRCUIT INTERRUPTER									
ST - INDICATES SHUNT TRIP									
E - INDICATES EXISTING									

COPPER (CU) BRANCH CIRCUIT AND FEEDER SCHEDULE						
OVERCURRENT PROTECTIVE DEVICE RATINGS (AMPS)	CONDUCTOR SIZE PER CONDUIT		CONDUIT SIZE AND QUANTITY			
	PHASE & NEUTRAL	EQUIPMENT GROUND	1P, 1N, 1G 2P, 1G	2P, 1N, 1G 3P, 1G	3P, 1N, 1G	3P, 3N, 1G
15-20	12	12	3/4"	3/4"	3/4"	3/4"
25	12	10	3/4"	3/4"	3/4"	3/4"
30-35	10	10	3/4"	3/4"	3/4"	3/4"
40-50	8	10	3/4"	3/4"	3/4"	1"
60	6	10	3/4"	3/4"	1"	1"
70-80	4	8	3/4"	1"	1-1/4"	1-1/4"
90-100	3	8	1"	1"	1-1/4"	1-1/2"
110	2	6	1"	1-1/4"	1-1/4"	1-1/2"
125	1	6	1-1/4"	1-1/4"	1-1/2"	2"
150	10	6	1-1/4"	1-1/2"	1-1/2"	2"
175	20	6	1-1/4"	1-1/2"	2"	2-1/2"
200	30	6	1-1/2"	2"	2	2-1/2"
225	40	4	1-1/2"	2"	2-1/2"	3"
250	250	4	2"	2"	2-1/2"	3"
300	350	4	2"	2-1/2"	3"	3-1/2"

DRAWING INFORMATION		FFA CABIN, SHOP & MISC. CONSTRUCTION	
A&E FILE NO.	2019-24	ONE LINE DIAGRAM AND PANEL SCHEDULES	
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CHECKED BY:	JM	DECA REVIEWED	
PHASE	RTA	FOR INTENT ONLY	
RTA DATE:	5/11/2020	DECA LOG #	
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DESCRIPTION OF REVISIONS		DATE	DESCRIPTION OF REVISIONS
1		5	
2		6	
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