ELECTRICAL LOAD CALCULATION

Project Number: 2016.007
Coffey County Housing Authority
Tri-plex Model #2016-01

TECH CAD SERVICES, LLC
Building Designer
CAD Drafting Services
Factory Built Consulting

DATE: May 5, 2016

Lighting Load:							
Lighting Load:	1904	SQ. FT.	X	3	va	=	5712 va
Small Appliance Circuits	3	#Of	X	1500	va	=	4500 va
Laundry Circuit:	1	#Of	X	1500	va	=	1500 va
				Subtotal			11712 va
Table 220-11 Lighting Demand							
First 3000 va @ 100%							3000 va
30,001 to 120,000 @ 35%	8712	va	X	0.35			3049
Remaining va @ 25%	0	va	X	0.25	=		0 va
Total Lighting Load							6049 va
Electric Heat (per NEC. ART. 424-3 (b) at 125%)							
Kw	0	*K/240	=	0	Amps		
Electric Heat (@125%)	0	Amps	X	240	volts	=	0 va
Furnace Blower (@ 125%)	12	Amps	X	120	volts	=	1800 va
Electric Heat + Furnace Blower							1800 va
AC or Heat Pump + Furnace Blower	18	Amps	X	240	volts	=	6120 va
(Compare electric heat against A/C load. Omit the smaller.)							
Heating Cooling Load							6120 va
Noncontinuous Loads							
Range or Cooktop 10.3 Kw Derated							8400 va
Water Heater	0	Amps	X	240	volts	=	0 va
Clothes Dryer (Min 5000 W)	12.5	Amps	X	240	volts	=	5000 va
Others Noncontinuous Loads							
	0	Amps	X	240	volts	=	0 va
		Amps	X	240	volts	=	0 va
Total Noncontinuous Loads							13400
Motor Loads							
Dishwasher	10.4	Amps	X	120	volts	=	1248 va
Garbage Disposal	6.5	Amps	X	120	volts	=	780 va
Other Motor Loads							
		Amps	X	240	volts	=	0 va
		Amps	X	240	volts	=	0 va
220-14 Largest motor in F.L.C. increased 25%							3 va
Total Motor Load							2031 va
Continuous Loads							
		Amps	X	240	volts	=	0 va
		Amps	X	240	volts	=	0 va
		Amps	X	240	volts	=	0 va
220-10(b) increased Continuous Loads to 125%							0 va
Total Continuous Loads		TOTAL					0 va
TOTAL AMPS = Total va	115	Amps	X	240	volts	=	27600 va