

VOLTAGE DROP CALCULATIONS

CALC: KWF
CHKP: DRE

County-Route-Section: HEN-108-17.40 No. of Wires for Calculation Purposes:
 Power Service: EX. Circuit: A U-X AMPS 0.49833
 Supply Voltage: 120 A-X AMPS 0.60667
 Wire Resistance Used: No. 4 AWG. 0.310 A-X LUMINAIRE WATTAGE - 56
 No. 6 AWG. 0.490 U-X LUMINAIRE WATTAGE - 46

Voltage: 120	Wire Factor Used (Two - No. 10 AWG Wires):	2.40	ohms/mft/1000	Circuit: 'A'
	Wire Factor Used (Two - No. 8 AWG Wires):	1.56	ohms/mft/1000	
	Wire Factor Used (Two - No. 6 AWG Wires):	0.98	ohms/mft/1000	
	Wire Factor Used (Two - No. 4 AWG Wires):	0.62	ohms/mft/1000	

Section		Design Feet	Amperes		Ampere-Feet	AWG	Voltage Drop		% Drop	At Point
From	To		At Point	Accum.			In Section	Accum.		
U-1	PB A-8	10	0.50	0.50	5	6	0.00	1.70	1.42	U-1
PB A-8	PB A-7	113	0.00	0.50	56	6	0.06	1.70	1.42	PB A-8
U-2	PB A-7	10	0.50	1.00	10	6	0.01	1.64	1.37	U-2
PB A-7	PB A-1	173	0.00	1.00	172	6	0.17	1.63	1.36	PB A-7
A1	PB A-1	95	0.61	1.60	153	6	0.15	1.46	1.22	A1
PB A-1	A2	41	0.00	1.60	66	6	0.06	1.31	1.10	PB A-1
A2	A3	157	0.61	2.21	346	6	0.34	1.25	1.04	A2
A3	PB A-2	46	0.61	2.82	131	6	0.13	0.91	0.76	A3
PB A-2	PB A-3	32	0.61	3.42	110	6	0.11	0.78	0.65	PB A-2
PB A-3	A-6	37	0.61	4.03	151	6	0.15	0.68	0.56	PB A-3
A-6	PB A-4	76	0.61	4.64	351	6	0.34	0.53	0.44	A-6
PB A-4	PB A-6	13	2.43	7.06	94	6	0.09	0.18	0.15	PB A-4
PB A-6	CC	13	0.00	7.06	94	6	0.09	0.09	0.08	PB A-6
A-4	PB A-2	162	0.61	0.61	98	6	0.10	0.10	0.08	A-4
A-5	PB A-3	44	0.61	0.61	27	6	0.03	0.03	0.02	A-5
A-9	A-8	90	0.61	0.61	55	6	0.05	0.18	0.15	A-9
A-8	PB A-5	32	0.61	1.21	38	6	0.04	0.12	0.10	A-8
PB A-5	PB A-4	48	0.00	1.82	87	6	0.09	0.09	0.07	PB A-5
A-7	PB A-4	54	0.61	0.61	33	6	0.03	0.03	0.03	A-7
A-10	PB A-5	157	0.61	0.61	95	6	0.09	0.09	0.08	A-10