

EST NUMBER: WEB16000
RUN DATE.: 08/05/09 08:49am
DATA DATE.: SEPT 2009

ELECTRICAL ESTIMATE
ANYTOWN, ANYWHERE
ESTIMATE SUMMARY

PREPARED FOR: ALL OF OUR CLIENTS
PREPARED BY.: TEMPEST COMPANY
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DESCRIPTION	LABOR MANHOURS	LABOR DOLLARS	MATERIAL DOLLARS	EQUIPMENT DOLLARS	SUBCONTRACT DOLLARS	TOTAL DOLLARS
SITE WORK	1,664.6	81,923	28,340	6,128	585	116,976
ELECTRICAL SYSTEMS	12,285.4	604,191	101,970	0	0	706,161
COMMUNICATIONS SYSTEMS	1,416.4	69,703	824	0	0	70,527
*** TOTAL ESTIMATED COST ***	15,366.4	755,817	131,134	6,128	585	893,664

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SITE WORK SUMMARY - SITE WORK

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DESCRIPTION	LABOR MANHOURS	LABOR DOLLARS	MATERIAL DOLLARS	EQUIPMENT DOLLARS	SUBCONTRACT DOLLARS	TOTAL DOLLARS
ELECTRICAL	1,664.6	81,923	28,340	6,128	585	116,976
*** SITE WORK ESTIMATED COST ***	1,664.6	81,923	28,340	6,128	585	116,976

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DESCRIPTION	LABOR MANHOURS	LABOR DOLLARS	MATERIAL DOLLARS	EQUIPMENT DOLLARS	SUBCONTRACT DOLLARS	TOTAL DOLLARS
MEDIUM VOLTAGE DISTRIBUTION SYSTEM	107.8	5,308	3,806	970	0	10,084
SERVICE AND DISTRIBUTION	139.4	6,861	5,287	720	585	13,453
POWER AND LIGHT	464.8	22,878	7,815	1,965	0	32,658
EMERGENCY POWER SYSTEMS	98.9	4,869	3,166	110	0	8,145
COMMUNICATIONS SYSTEMS	853.7	42,007	8,266	2,363	0	52,636
*** ELECTRICAL ESTIMATED COST ***	1,664.6	81,923	28,340	6,128	585	116,976

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MEDIUM VOLTAGE DISTRIBUTION SYSTEM SUMMARY - SITE WORK

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DESCRIPTION	LABOR MANHOURS	LABOR DOLLARS	MATERIAL DOLLARS	EQUIPMENT DOLLARS	SUBCONTRACT DOLLARS	TOTAL DOLLARS
MEDIUM VOLTAGE RACEWAY SYSTEMS	107.8	5,308	3,806	970	0	10,084
*** MEDIUM VOLTAGE DISTRIBUTION SYSTEM ESTIMATED COST ***	107.8	5,308	3,806	970	0	10,084

DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN HOURS UNIT	LABOR DOLLARS TOTAL	MATERIAL DOLLARS UNIT	MATERIAL DOLLARS TOTAL	EQUIPMENT DOLLARS UNIT	EQUIPMENT DOLLARS TOTAL	SUBCONTRACT DOLLARS UNIT	SUBCONTRACT DOLLARS TOTAL	TOTAL DOLLARS	
MEDIUM VOLTAGE RACEWAY SYSTEMS												
1-1/2" Intermediate Metal Conduit	5	Lin Ft	0.08	0.4	49.21	20	2.78	14	0	0	0	34
1-1/2" Poly Vinyl Chloride Conduit Schedule 40 In Trench	30	Lin Ft	0.04	1.2	49.21	59	0.41	12	0	0	0	71
4" Poly Vinyl Chloride Conduit Schedule 40 In Trench	460	Lin Ft	0.055	25.3	49.21	1,245	1.44	662	0	0	0	1,907
1-1/2" GRC 3-Piece Coupling (Erickson)	1	Each	1.05	1.1	49.21	54	10.1	10	0	0	0	64
1-1/2" GRC or IMC Cut & Thread	1	Each	0.51	0.5	49.21	25	0	0	0	0	0	25
1-1/2" Myers Style Zinc Conduit Hub w/Ground Screw	1	Each	0.4	0.4	49.21	20	8.61	9	0	0	0	29
1-1/2" PVC Coupling Schedule 40	4	Each	0	0.0	0	0	0.86	3	0	0	0	3
4" PVC Schedule 40 Coupling	8	Each	0	0.0	0	0	5.01	40	0	0	0	40
1-1/2" PVC Schedule 40-80 Female Adaptor	1	Each	0.25	0.3	49.21	15	1.13	1	0	0	0	16
1-1/2" PVC Schedule 40-80 Bell End	1	Each	0.2	0.2	49.21	10	2.52	3	0	0	0	13
4" PVC Schedule 40-80 Bell End	4	Each	0.4	1.6	49.21	79	5.28	21	0	0	0	100
4" PVC Schedule 40 30" Radius 45 Degreee x 48" Elbow	1	Each	1.5	1.5	49.21	74	29.31	29	0	0	0	103
1-1/2" PVC Schedule 40 Standard 90 Degree Elbow	2	Each	0.5	1.0	49.21	49	2.59	5	0	0	0	54
4" PVC Schedule 40 48" Radius 90 Degree x 48" Elbow	3	Each	1.5	4.5	49.21	221	31.36	94	0	0	0	315
1-1/2" RGS Unistrut Conduit Clamp	1	Each	0.04	0.1	49.21	5	1.07	1	0	0	0	6
Unistrut (Deep)	1	Lin Ft	0.08	0.1	49.21	5	4.13	4	0	0	0	9
Cut 12 Gauge 1-5/8 x 1-5/8 Channel (labor)	1	Each	0.31	0.3	49.21	15	0	0	0	0	0	15
#4/0 Stranded Bare Copper Wire	60	Lin Ft	0.03	1.8	49.21	89	3.41	205	0	0	0	294
3/4" x 10' Copper Ground Rod	4	Each	2.2	8.8	49.21	433	17.95	72	0	0	0	505
Cadweld 3/4" Ground Rod to #4/0 Copper	4	Each	1.4	5.6	49.21	276	6.55	26	0	0	0	302
Cadweld #4/0 Copper Tee	2	Each	1.7	3.4	49.21	167	8.2	16	0	0	0	183
4" Wide x 18" Deep Ditch Witch Trench	40	Lin Ft	0.04	1.6	49.21	79	0	0	0.5	20	0	99
6" Wide x 24" Deep Ditch Witch Trench	30	Lin Ft	0.06	1.8	49.21	89	0	0	1	30	0	119
6" Wide x 48" Deep Ditch Witch Trench	460	Lin Ft	0.08	36.8	49.21	1,811	0	0	2	920	0	2,731
Concrete Filled Pipe Bollard	4	Each	0	0.0	0	0	200	800	0	0	0	800
1/8" Poly Pull Line	32	Lin Ft	0.0035	0.1	49.21	5	0.00579	1	0	0	0	6
1/4" Pull Line	470	Lin Ft	0.0105	4.9	49.21	241	0.04793	23	0	0	0	264

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
Concrete Pad for Ohio Edison Transformer	1	Each	0	0.0	49.21	0	1,500	1,500	0	0	0	0	1,500
Dig/Excavate @ Existing Ohio Edison Transformer	1	Each	4	4.0	49.21	197	250	250	0	0	0	0	447
Install Ohio Edison Meter Base	1	Each	0.5	0.5	49.21	25	5	5	0	0	0	0	30
*** MEDIUM VOLTAGE RACEWAY SYSTEMS ESTIMATED COST ***				107.8		5,308		3,806		970		0	10,084

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ELECTRICAL ESTIMATE
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SERVICE AND DISTRIBUTION SUMMARY - SITE WORK

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DESCRIPTION	LABOR MANHOURS	LABOR DOLLARS	MATERIAL DOLLARS	EQUIPMENT DOLLARS	SUBCONTRACT DOLLARS	TOTAL DOLLARS
SWITCHBOARDS, PANELBOARDS, LOOSE GEAR	3.0	148	0	0	0	148
600 VOLT DISTRIBUTION SYSTEM	136.4	6,713	5,287	720	585	13,305
*** SERVICE AND DISTRIBUTION ESTIMATED COST ***	139.4	6,861	5,287	720	585	13,453

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
SWITCHBOARDS, PANELBOARDS, LOOSE GEAR													
GATE OP 30 Amp 3 Pole 600 Volt HD NF Safety Switch - Nema 4X	1	Each	3	3.0	49.21	148	Quote	0	0	0	0	0	148
*** SWITCHBOARDS, PANELBOARDS, LOOSE GEAR ESTIMATED COST ***				3.0		148		0		0		0	148
600 VOLT DISTRIBUTION SYSTEM													
3" Intermediate Metal Conduit	10	Lin Ft	0.15	1.5	49.21	74	9.85	99	0	0	0	0	173
3" Poly Vinyl Chloride Conduit Schedule 40 In Trench	480	Lin Ft	0.05	24.0	49.21	1,181	1.02	490	0	0	0	0	1,671
4" Poly Vinyl Chloride Conduit Schedule 40 In Trench	200	Lin Ft	0.055	11.0	49.21	541	1.44	288	0	0	0	0	829
3" Plastic Bushing	2	Each	0.4	0.8	49.21	39	2.36	5	0	0	0	0	44
3" GRC or IMC Cut & Thread	2	Each	1.31	2.6	49.21	128	0	0	0	0	0	0	128
3" PVC Schedule 40 Coupling	8	Each	0	0.0	0	0	3.25	26	0	0	0	0	26
4" PVC Schedule 40 Coupling	16	Each	0	0.0	0	0	5.01	80	0	0	0	0	80
3" PVC Schedule 40-80 Female Adaptor	2	Each	0.5	1.0	49.21	49	4.51	9	0	0	0	0	58
4" PVC Schedule 40-80 Bell End	8	Each	0.4	3.2	49.21	157	5.28	42	0	0	0	0	199
3" PVC Schedule 40 Standard 45 Degree Elbow	1	Each	1	1.0	49.21	49	0	0	0	0	0	0	49
3" PVC Schedule 40 Standard 90 Degree Elbow 36" Radius	3	Each	1	3.0	49.21	148	11.51	35	0	0	0	0	183
4" PVC Schedule 40 Standard 90 Degree Elbow 36" Radius	8	Each	1.5	12.0	49.21	591	19.98	160	0	0	0	0	751
3" RGS Unistrut Conduit Clamp	2	Each	0.05	0.1	49.21	5	1.391	3	0	0	0	0	8
Unistrut (Deep)	2	Lin Ft	0.08	0.2	49.21	10	4.13	8	0	0	0	0	18
Cut 12 Gauge 1-5/8 x 1-5/8 Channel (labor)	2	Each	0.31	0.6	49.21	30	0	0	0	0	0	0	30
#500MCM THHN Stranded Copper Wire	720	Lin Ft	0.044	31.7	49.21	1,560	5.58	4,018	0	0	0	0	5,578
6" Wide x 36" Deep Ditch Witch Trench	480	Lin Ft	0.08	38.4	49.21	1,890	0	0	1.5	720	0	0	2,610
Backhoe Excavation & Backfill	13	Cu Yds	0	0.0	0	0	0	0	0	0	45	585	585
1/4" Pull Line	504	Lin Ft	0.0105	5.3	49.21	261	0.04793	24	0	0	0	0	285
*** 600 VOLT DISTRIBUTION SYSTEM ESTIMATED COST ***				136.4		6,713		5,287		720		585	13,305

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POWER AND LIGHT SUMMARY - SITE WORK

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DESCRIPTION	LABOR MANHOURS	LABOR DOLLARS	MATERIAL DOLLARS	EQUIPMENT DOLLARS	SUBCONTRACT DOLLARS	TOTAL DOLLARS
EQUIPMENT WIRING	109.4	5,383	858	330	0	6,571
LIGHTING FIXTURES AND LAMPS	102.3	5,035	0	0	0	5,035
BRANCH LIGHTING SYSTEM	253.1	12,460	6,957	1,635	0	21,052
*** POWER AND LIGHT ESTIMATED COST ***	464.8	22,878	7,815	1,965	0	32,658

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EQUIPMENT WIRING													
1" Intermediate Metal Conduit	40	Lin Ft	0.06	2.4	49.21	118	1.85	74	0	0	0	0	192
1" Poly Vinyl Chloride Conduit Schedule 40 In Trench	1,060	Lin Ft	0.03	31.8	49.21	1,565	0.25	265	0	0	0	0	1,830
1" Liquidite Flexible Conduit Type EF	20	Lin Ft	0.1	2.0	49.21	98	1.24	25	0	0	0	0	123
1" Locknut	6	Each	0.14	0.8	49.21	39	0.3625	2	0	0	0	0	41
1" Steel Grounding Bushing Insulated	3	Each	0.22	0.7	49.21	34	3.74	11	0	0	0	0	45
1" GRC or IMC Cut & Thread	8	Each	0.32	2.6	49.21	128	0	0	0	0	0	0	128
1" Myers Style Zinc Conduit Hub w/Ground Screw	5	Each	0.25	1.3	49.21	64	5.71	29	0	0	0	0	93
1" PVC Schedule 40 Coupling	16	Each	0	0.0	0	0	0.459	7	0	0	0	0	7
1" PVC Schedule 40-80 Female Adaptor	8	Each	0.18	1.4	49.21	69	0.8	6	0	0	0	0	75
1" PVC Schedule 40 Standard 90 Degree Elbow	8	Each	0.35	2.8	49.21	138	1.35	11	0	0	0	0	149
1" Straight Sealite Connector Die Cast Non Insulated Throat	4	Each	0.2	0.8	49.21	39	3.22	13	0	0	0	0	52
1" 90 Degree Sealite Connector Die Cast Non Insulated Throat	4	Each	0.25	1.0	49.21	49	7.33	29	0	0	0	0	78
1" RGS Unistrut Conduit Clamp	8	Each	0.03	0.2	49.21	10	0.78	6	0	0	0	0	16
Unistrut (Deep)	5	Lin Ft	0.08	0.4	49.21	20	4.13	21	0	0	0	0	41
Cut 12 Gauge 1-5/8 x 1-5/8 Channel (labor)	5	Each	0.31	1.6	49.21	79	0	0	0	0	0	0	79
#10 THHN Stranded Copper Wire	4,564	Lin Ft	0.0075	34.2	49.21	1,683	0.07	319	0	0	0	0	2,002
6" Wide x 24" Deep Ditch Witch Trench	330	Lin Ft	0.06	19.8	49.21	974	0	0	1	330	0	0	1,304
1 Horsepower Motor Connection Three Phase 480 Volt	4	Each	1.4	5.6	49.21	276	9.88	40	0	0	0	0	316
*** EQUIPMENT WIRING ESTIMATED COST ***				109.4		5,383		858		330		0	6,571
LIGHTING FIXTURES AND LAMPS													
Y - H.I.D. 100 Watt Single Flood Fixture	2	Each	1.4	2.8	49.21	138	Quote	0	0	0	0	0	138
X-1 - H.I.D. Single Head 400W Pole Top Fixture	8	Each	2.95	23.6	49.21	1,161	Quote	0	0	0	0	0	1,161
X-2 - H.I.D. Double Head 400W Pole Top Fixture	1	Each	5.3	5.3	49.21	261	Quote	0	0	0	0	0	261
X-4 - H.I.D. Four Head 400W Pole Top Fixture	1	Each	10.6	10.6	49.21	522	Quote	0	0	0	0	0	522
400 Watt HPS Lamp for Type X	14	Each	0	0.0	49.21	0	Quote	0	0	0	0	0	0
100 Watt MH Lamp for Type Y	2	Each	0	0.0	49.21	0	Quote	0	0	0	0	0	0
40' Steel Pole	10	Each	6	60.0	49.21	2,953	Quote	0	0	0	0	0	2,953

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*** LIGHTING FIXTURES AND LAMPS ESTIMATED COST ***				102.3		5,035		0		0		0	5,035
BRANCH LIGHTING SYSTEM													
1" Intermediate Metal Conduit	10	Lin Ft	0.06	0.6	49.21	30	1.85	19	0	0	0	0	49
1-1/4" Intermediate Metal Conduit	5	Lin Ft	0.01	0.1	49.21	5	2.33	12	0	0	0	0	17
1" Poly Vinyl Chloride Conduit Schedule 40 In Trench	1,405	Lin Ft	0.03	42.2	49.21	2,077	0.25	351	0	0	0	0	2,428
1-1/4" Poly Vinyl Chloride Conduit Schedule 40 In Trench	230	Lin Ft	0.04	9.2	49.21	453	0.34	78	0	0	0	0	531
1" Locknut	4	Each	0.14	0.6	49.21	30	0.3625	1	0	0	0	0	31
1-1/4" Locknut	2	Each	0.14	0.3	49.21	15	0.36	1	0	0	0	0	16
1" Steel Grounding Bushing Insulated	2	Each	0.22	0.4	49.21	20	3.74	7	0	0	0	0	27
1-1/4" Steel Grounding Bushing Insulated	1	Each	0.26	0.3	49.21	15	5.38	5	0	0	0	0	20
1" GRC or IMC Cut & Thread	2	Each	0.32	0.6	49.21	30	0	0	0	0	0	0	30
1-1/4" GRC or IMC Cut & Thread	1	Each	0.4	0.4	49.21	20	0	0	0	0	0	0	20
1" PVC Schedule 40 Coupling	46	Each	0	0.0	0	0	0.459	21	0	0	0	0	21
1-1/4" PVC Schedule 40 Coupling	4	Each	0	0.0	0	0	0.61	2	0	0	0	0	2
1" PVC Schedule 40-80 Female Adaptor	2	Each	0.18	0.4	49.21	20	0.8	2	0	0	0	0	22
1-1/4" PVC Schedule 40-80 Female Adaptor	1	Each	0.2	0.2	49.21	10	1.05	1	0	0	0	0	11
1" PVC Schedule 40 Standard 90 Degree Elbow	23	Each	0.35	8.1	49.21	399	1.35	31	0	0	0	0	430
1-1/4" PVC Schedule 40 Standard 90 Degree Elbow	2	Each	0.4	0.8	49.21	39	1.92	4	0	0	0	0	43
1" RGS Unistrut Conduit Clamp	2	Each	0.03	0.1	49.21	5	0.78	2	0	0	0	0	7
1-1/4" RGS Unistrut Conduit Clamp	1	Each	0.04	0.1	49.21	5	0.87	1	0	0	0	0	6
Unistrut (Deep)	2	Lin Ft	0.08	0.2	49.21	10	4.13	8	0	0	0	0	18
Cut 12 Gauge 1-5/8 x 1-5/8 Channel (labor)	2	Each	0.31	0.6	49.21	30	0	0	0	0	0	0	30
#12 THHN Stranded Copper Wire	1,500	Lin Ft	0.006	9.0	49.21	443	0.08	120	0	0	0	0	563
#10 THHN Stranded Copper Wire	1,481	Lin Ft	0.0075	11.1	49.21	546	0.07	104	0	0	0	0	650
#8 THHN Stranded Copper Wire	4,470	Lin Ft	0.01	44.7	49.21	2,200	0.21	939	0	0	0	0	3,139
#2 Solid Bare Copper Wire	100	Lin Ft	0.05	5.0	49.21	246	1.56	156	0	0	0	0	402
5/8" x 8' Copper Ground Rod	10	Each	2	20.0	49.21	984	8.27	83	0	0	0	0	1,067
5/8" Ground Rod Clamp	10	Each	0	0.0	0	0	0.68	7	0	0	0	0	7

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6" Wide x 24" Deep Ditch Witch Trench	1,635	Lin Ft	0.06	98.1	49.21	4,828	0	0	1	1,635	0	0	6,463
Concrete Pole Base 18" x 24" Deep Flush	2	Each	0	0.0	0	0	191	382	0	0	0	0	382
Concrete Pole Base 18" x 60" Deep 2.5' A.G.	10	Each	0	0.0	0	0	462	4,620	0	0	0	0	4,620
*** BRANCH LIGHTING SYSTEM ESTIMATED COST ***				253.1		12,460		6,957		1,635		0	21,052

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EMERGENCY POWER SYSTEMS SUMMARY - SITE WORK

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DESCRIPTION	LABOR MANHOURS	LABOR DOLLARS	MATERIAL DOLLARS	EQUIPMENT DOLLARS	SUBCONTRACT DOLLARS	TOTAL DOLLARS
EMERGENCY GENERATOR AND FEEDER SYSTEM	98.9	4,869	3,166	110	0	8,145
*** EMERGENCY POWER SYSTEMS ESTIMATED COST ***	98.9	4,869	3,166	110	0	8,145

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EMERGENCY GENERATOR AND FEEDER SYSTEM													
1" Intermediate Metal Conduit	20	Lin Ft	0.06	1.2	49.21	59	1.85	37	0	0	0	0	96
2" Intermediate Metal Conduit	10	Lin Ft	0.09	0.9	49.21	44	3.63	36	0	0	0	0	80
1" Poly Vinyl Chloride Conduit Schedule 40 In Trench	200	Lin Ft	0.03	6.0	49.21	295	0.25	50	0	0	0	0	345
2" Poly Vinyl Chloride Conduit Schedule 40 In Trench	90	Lin Ft	0.04	3.6	49.21	177	0.54	49	0	0	0	0	226
1" Liquidtite Flexible Conduit Type EF	10	Lin Ft	0.1	1.0	49.21	49	1.24	12	0	0	0	0	61
2" Liquidtite Flexible Conduit Type EF	5	Lin Ft	0.3	1.5	49.21	74	2.96	15	0	0	0	0	89
1" GRC or IMC Coupling	2	Each	0	0.0	0	0	1.58	3	0	0	0	0	3
2" GRC or IMC Coupling	1	Each	0	0.0	0	0	3.2863	3	0	0	0	0	3
1" Locknut	4	Each	0.14	0.6	49.21	30	0.3625	1	0	0	0	0	31
2" Locknut	2	Each	0.27	0.5	49.21	25	0.8663	2	0	0	0	0	27
1" Steel Grounding Bushing Insulated	2	Each	0.22	0.4	49.21	20	3.74	7	0	0	0	0	27
2" Die Cast Grounding Bushing Insulated	2	Each	0.46	0.9	49.21	44	3.99	8	0	0	0	0	52
1" GRC or IMC Cut & Thread	4	Each	0.32	1.3	49.21	64	0	0	0	0	0	0	64
2" GRC or IMC Cut & Thread	2	Each	0.63	1.3	49.21	64	0	0	0	0	0	0	64
1" PVC Schedule 40 Coupling	8	Each	0	0.0	0	0	0.459	4	0	0	0	0	4
2" PVC Schedule 40 Coupling	6	Each	0	0.0	0	0	1.12	7	0	0	0	0	7
1" PVC Schedule 40-80 Female Adaptor	4	Each	0.18	0.7	49.21	34	0.8	3	0	0	0	0	37
2" PVC Schedule 40-80 Female Adaptor	2	Each	0.3	0.6	49.21	30	1.54	3	0	0	0	0	33
2" PVC Schedule 40 Standard 45 Degree Elbow	1	Each	0.65	0.7	49.21	34	3.57	4	0	0	0	0	38
1" PVC Schedule 40 Standard 90 Degree Elbow	4	Each	0.35	1.4	49.21	69	1.35	5	0	0	0	0	74
2" PVC Schedule 40 Standard 90 Degree Elbow 36" Radius	2	Each	0.65	1.3	49.21	64	3.77	8	0	0	0	0	72
1" Straight Sealrite Connector Die Cast Non Insulated Throat	2	Each	0.2	0.4	49.21	20	3.22	6	0	0	0	0	26
2" Straight Sealrite Connector Die Cast Non Insulated Throat	2	Each	0.35	0.7	49.21	34	11.39	23	0	0	0	0	57
1" 90 Degree Sealrite Connector Die Cast Non Insulated Throat	2	Each	0.25	0.5	49.21	25	7.33	15	0	0	0	0	40
1" RGS Unistrut Conduit Clamp	4	Each	0.03	0.1	49.21	5	0.78	3	0	0	0	0	8
2" RGS Unistrut Conduit Clamp	2	Each	0.04	0.1	49.21	5	1.1245	2	0	0	0	0	7
Unistrut (Deep)	2	Lin Ft	0.08	0.2	49.21	10	4.13	8	0	0	0	0	18

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 ANYTOWN, ANYWHERE
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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
Cut 12 Gauge 1-5/8 x 1-5/8 Channel (labor)	2	Each	0.31	0.6	49.21	30	0	0	0	0	0	0	30
#14 THHN Stranded Copper Wire	2,100	Lin Ft	0.005	10.5	49.21	517	0.07	147	0	0	0	0	664
#10 THHN Stranded Copper Wire	314	Lin Ft	0.0075	2.4	49.21	118	0.07	22	0	0	0	0	140
#6 THHN Stranded Copper Wire	110	Lin Ft	0.012	1.3	49.21	64	0.34	37	0	0	0	0	101
#3/0 THHN Stranded Copper Wire	440	Lin Ft	0.02	8.8	49.21	433	1.99	876	0	0	0	0	1,309
#4/0 Stranded Bare Copper Wire	60	Lin Ft	0.03	1.8	49.21	89	3.41	205	0	0	0	0	294
3/4" x 10' Copper Ground Rod	2	Each	2.2	4.4	49.21	217	17.95	36	0	0	0	0	253
Cadweld 3/4" Ground Rod to #4/0 Copper	2	Each	1.4	2.8	49.21	138	6.55	13	0	0	0	0	151
Cadweld #4/0 Copper Tee	2	Each	1.7	3.4	49.21	167	8.2	16	0	0	0	0	183
4" Wide x 18" Deep Ditch Witch Trench	40	Lin Ft	0.04	1.6	49.21	79	0	0	0.5	20	0	0	99
6" Wide x 24" Deep Ditch Witch Trench	90	Lin Ft	0.06	5.4	49.21	266	0	0	1	90	0	0	356
Concrete Pad for Emergency Generator Set	1	Each	0	0.0	0	0	1,500	1,500	0	0	0	0	1,500
100KW Three Phase DS Emergency Generator Set 480 Volt / Outdoor	1	Each	30	30.0	49.21	1,476	Quote	0	0	0	0	0	1,476
*** EMERGENCY GENERATOR AND FEEDER SYSTEM ESTIMATED COST ***				98.9		4,869		3,166		110		0	8,145

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COMMUNICATIONS SYSTEMS SUMMARY - SITE WORK

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DESCRIPTION	LABOR MANHOURS	LABOR DOLLARS	MATERIAL DOLLARS	EQUIPMENT DOLLARS	SUBCONTRACT DOLLARS	TOTAL DOLLARS
SECURITY SYSTEM	691.3	34,015	5,786	713	0	40,514
TELEPHONE SERVICE ENTRANCE	81.2	3,996	1,240	825	0	6,061
CATV SERVICE ENTRANCE	81.2	3,996	1,240	825	0	6,061
*** COMMUNICATIONS SYSTEMS ESTIMATED COST ***	853.7	42,007	8,266	2,363	0	52,636

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
SECURITY SYSTEM													
1" Galvanized Rigid Steel Conduit	210	Lin Ft	0.07	14.7	49.21	723	2.49	523	0	0	0	0	1,246
Neca Normal Column													
1" Intermediate Metal Conduit	20	Lin Ft	0.06	1.2	49.21	59	1.85	37	0	0	0	0	96
1" Poly Vinyl Chloride Conduit	6,110	Lin Ft	0.03	183.3	49.21	9,020	0.25	1,528	0	0	0	0	10,548
Schedule 40 In Trench													
1" GRC or IMC Coupling	42	Each	0	0.0	0	0	1.58	66	0	0	0	0	66
1" GRC 90 Degree Elbow	42	Each	0.5	21.0	49.21	1,033	5.68	239	0	0	0	0	1,272
Standard Radius													
1" Locknut	90	Each	0.14	12.6	49.21	620	0.3625	33	0	0	0	0	653
1" Steel Grounding Bushing Insulated	3	Each	0.22	0.7	49.21	34	3.74	11	0	0	0	0	45
1" Die Cast Grounding Bushing Insulated	46	Each	0.22	10.1	49.21	497	2.23	103	0	0	0	0	600
1" GRC or IMC Cut & Thread	46	Each	0.32	14.7	49.21	723	0	0	0	0	0	0	723
1" PVC Schedule 40 Coupling	16	Each	0	0.0	0	0	0.459	7	0	0	0	0	7
1" PVC Schedule 40-80 Female Adaptor	46	Each	0.18	8.3	49.21	408	0.8	37	0	0	0	0	445
1" PVC Schedule 40 Standard	8	Each	0.35	2.8	49.21	138	1.35	11	0	0	0	0	149
90 Degree Elbow													
1" RGS Unistrut Conduit Clamp	46	Each	0.03	1.4	49.21	69	0.78	36	0	0	0	0	105
Unistrut (Deep)	12	Lin Ft	0.08	1.0	49.21	49	4.13	50	0	0	0	0	99
Cut 12 Gauge 1-5/8 x 1-5/8 Channel (labor)	3	Each	0.31	0.9	49.21	44	0	0	0	0	0	0	44
#14 THHN Copper Solid Wire	26,544	Lin Ft	0.005	132.7	49.21	6,530	0.06	1,593	0	0	0	0	8,123
#10 THHN Stranded Copper Wire	3,402	Lin Ft	0.0075	25.5	49.21	1,255	0.07	238	0	0	0	0	1,493
#18 TFFN Stranded Copper Wire	6,279	Lin Ft	0.01	62.8	49.21	3,090	0.04	251	0	0	0	0	3,341
4" Wide x 24" Deep Ditch Witch Trench	130	Lin Ft	0.06	7.8	49.21	384	0	0	0.75	98	0	0	482
6" Wide x 24" Deep Ditch Witch Trench	615	Lin Ft	0.06	36.9	49.21	1,816	0	0	1	615	0	0	2,431
18/2 PVC Shielded Sound Cable	4,226	Lin Ft	0.011	46.5	49.21	2,288	Quote	0	0	0	0	0	2,288
20' Steel Pole For Security Camera	3	Each	4.3	12.9	49.21	635	Quote	0	0	0	0	0	635
#18/12 Card Access Cable PVC	3,140	Lin Ft	0.018	56.5	49.21	2,780	Quote	0	0	0	0	0	2,780
Concrete Pole Base 18" x 60" Deep Flush	3	Each	0	0.0	0	0	341	1,023	0	0	0	0	1,023
62.5/125 MIC Fiber	1,323	Lin Ft	0.014	18.5	49.21	910	Quote	0	0	0	0	0	910
#20/4 2 Pair Shielded 2 Pair Unshielded	1,323	Lin Ft	0.014	18.5	49.21	910	Quote	0	0	0	0	0	910
*** SECURITY SYSTEM ESTIMATED COST ***				691.3		34,015		5,786		713		0	40,514

DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN HOURS UNIT	LABOR DOLLARS TOTAL	MATERIAL DOLLARS UNIT	MATERIAL DOLLARS TOTAL	EQUIPMENT DOLLARS UNIT	EQUIPMENT DOLLARS TOTAL	SUBCONTRACT DOLLARS UNIT	SUBCONTRACT DOLLARS TOTAL	TOTAL DOLLARS	
TELEPHONE SERVICE ENTRANCE												
4" Intermediate Metal Conduit	5	Lin Ft	0.21	1.1	49.21	54	13.27	66	0	0	0	120
4" Poly Vinyl Chloride Conduit Schedule 40 In Trench	660	Lin Ft	0.055	36.3	49.21	1,786	1.44	950	0	0	0	2,736
4" Die Cast Grounding Bushing Insulated	1	Each	0.84	0.8	49.21	39	11.92	12	0	0	0	51
4" GRC or IMC Cut & Thread	1	Each	1.66	1.7	49.21	84	0	0	0	0	0	84
4" PVC Schedule 40 Coupling	8	Each	0	0.0	0	0	5.01	40	0	0	0	40
4" PVC Schedule 40-80 Female Adaptor	1	Each	0.8	0.8	49.21	39	5.98	6	0	0	0	45
4" PVC Schedule 40-80 Bell End	1	Each	0.4	0.4	49.21	20	5.28	5	0	0	0	25
4" PVC Schedule 40 30" Radius 45 Degreee x 48" Elbow	2	Each	1.5	3.0	49.21	148	29.31	59	0	0	0	207
4" PVC Schedule 40 48" Radius 90 Degreee x 48" Elbow	2	Each	1.5	3.0	49.21	148	31.36	63	0	0	0	211
4" RGS Unistrut Conduit Clamp	1	Each	0.06	0.1	49.21	5	1.83	2	0	0	0	7
Unistrut (Deep)	1	Lin Ft	0.08	0.1	49.21	5	4.13	4	0	0	0	9
Cut 12 Gauge 1-5/8 x 1-5/8 Channel (labor)	1	Each	0.31	0.3	49.21	15	0	0	0	0	0	15
8" Wide x 48" Deep Ditch Witch Trench	330	Lin Ft	0.08	26.4	49.21	1,299	0	0	2.5	825	0	2,124
1/4" Pull Line	690	Lin Ft	0.0105	7.2	49.21	354	0.04793	33	0	0	0	387
*** TELEPHONE SERVICE ENTRANCE ESTIMATED COST ***				81.2		3,996		1,240		825	0	6,061
CATV SERVICE ENTRANCE												
4" Intermediate Metal Conduit	5	Lin Ft	0.21	1.1	49.21	54	13.27	66	0	0	0	120
4" Poly Vinyl Chloride Conduit Schedule 40 In Trench	660	Lin Ft	0.055	36.3	49.21	1,786	1.44	950	0	0	0	2,736
4" Die Cast Grounding Bushing Insulated	1	Each	0.84	0.8	49.21	39	11.92	12	0	0	0	51
4" GRC or IMC Cut & Thread	1	Each	1.66	1.7	49.21	84	0	0	0	0	0	84
4" PVC Schedule 40 Coupling	8	Each	0	0.0	0	0	5.01	40	0	0	0	40
4" PVC Schedule 40-80 Female Adaptor	1	Each	0.8	0.8	49.21	39	5.98	6	0	0	0	45
4" PVC Schedule 40-80 Bell End	1	Each	0.4	0.4	49.21	20	5.28	5	0	0	0	25
4" PVC Schedule 40 30" Radius 45 Degreee x 48" Elbow	2	Each	1.5	3.0	49.21	148	29.31	59	0	0	0	207
4" PVC Schedule 40 48" Radius 90 Degreee x 48" Elbow	2	Each	1.5	3.0	49.21	148	31.36	63	0	0	0	211
4" RGS Unistrut Conduit Clamp	1	Each	0.06	0.1	49.21	5	1.83	2	0	0	0	7
Unistrut (Deep)	1	Lin Ft	0.08	0.1	49.21	5	4.13	4	0	0	0	9

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
Cut 12 Gauge 1-5/8 x 1-5/8 Channel (labor)	1	Each	0.31	0.3	49.21	15	0	0	0	0	0	0	15
8" Wide x 48" Deep Ditch Witch Trench	330	Lin Ft	0.08	26.4	49.21	1,299	0	0	2.5	825	0	0	2,124
1/4" Pull Line	690	Lin Ft	0.0105	7.2	49.21	354	0.04793	33	0	0	0	0	387
*** CATV SERVICE ENTRANCE ESTIMATED COST ***				81.2		3,996		1,240		825		0	6,061

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ELECTRICAL ESTIMATE
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ELECTRICAL SYSTEMS SUMMARY - ELECTRICAL SYSTEMS

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DESCRIPTION	LABOR MANHOURS	LABOR DOLLARS	MATERIAL DOLLARS	EQUIPMENT DOLLARS	SUBCONTRACT DOLLARS	TOTAL DOLLARS
ELECTRICAL	12,285.4	604,191	101,970	0	0	706,161
*** ELECTRICAL SYSTEMS ESTIMATED COST ***	12,285.4	604,191	101,970	0	0	706,161

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ELECTRICAL SUMMARY - ELECTRICAL SYSTEMS

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DESCRIPTION	LABOR MANHOURS	LABOR DOLLARS	MATERIAL DOLLARS	EQUIPMENT DOLLARS	SUBCONTRACT DOLLARS	TOTAL DOLLARS
SERVICE AND DISTRIBUTION	517.3	25,080	5,091	0	0	30,171
POWER AND LIGHT	5,504.7	270,882	50,787	0	0	321,669
EMERGENCY POWER SYSTEMS	44.8	2,208	645	0	0	2,853
COMMUNICATIONS SYSTEMS	6,218.6	306,021	45,447	0	0	351,468
*** ELECTRICAL ESTIMATED COST ***	12,285.4	604,191	101,970	0	0	706,161

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ELECTRICAL ESTIMATE
ANYTOWN, ANYWHERE
SERVICE AND DISTRIBUTION SUMMARY - ELECTRICAL SYSTEMS

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DESCRIPTION	LABOR MANHOURS	LABOR DOLLARS	MATERIAL DOLLARS	EQUIPMENT DOLLARS	SUBCONTRACT DOLLARS	TOTAL DOLLARS
SWITCHBOARDS, PANELBOARDS, LOOSE GEAR	422.1	20,391	3,481	0	0	23,872
600 VOLT DISTRIBUTION SYSTEM	95.2	4,689	1,610	0	0	6,299
*** SERVICE AND DISTRIBUTION ESTIMATED COST ***	517.3	25,080	5,091	0	0	30,171

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 ESTIMATE DETAIL - ELECTRICAL SYSTEMS

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
SWITCHBOARDS, PANELBOARDS, LOOSE GEAR													
3 Amp Cartridge Fuse - Class RK5 Time Delay 600 Volt	3	Each	0	0.0	49.21	0	5.49	16	0	0	0	0	16
15-45 KVA Dry Transformer Lug Kit	2	Each	0	0.0	0	0	39.2	78	0	0	0	0	78
75-112.5 KVA Dry Transformer Lug Kit	1	Each	0	0.0	0	0	78.4	78	0	0	0	0	78
3' x 4' Concrete Housekeeping Pad for Interior Pad Mounted Transformer	1	Each	0	0.0	0	0	75	75	0	0	0	0	75
3' x 10' Concrete Housekeeping Pad for Interior Mounted Switchgear	1	Each	0	0.0	0	0	160	160	0	0	0	0	160
T1 112.5 KVA 3 Phase Transformer 480 Volt x 208 Volt	1	Each	18	18.0	49.21	886	Quote	0	0	0	0	0	886
T-2 30 KVA 3 Phase Transformer 480 Volt x 208 Volt	1	Each	11	11.0	49.21	541	Quote	0	0	0	0	0	541
T-3 15 KVA 3 Phase Transformer 480 Volt x 208 Volt	1	Each	9	9.0	49.21	443	Quote	0	0	0	0	0	443
UPS 16 KVA UPS Unit	1	Each	16	16.0	49.21	787	Quote	0	0	0	0	0	787
EF-1 1 Pole Toggle Manual Starter Flush w/Pilot	1	Each	0.4	0.4	49.21	20	Quote	0	0	0	0	0	20
EF-2 1 Pole Toggle Manual Starter Flush w/Pilot	1	Each	0.4	0.4	49.21	20	Quote	0	0	0	0	0	20
EF-3 1 Pole Toggle Manual Starter Flush w/Pilot	1	Each	0.4	0.4	49.21	20	Quote	0	0	0	0	0	20
EF-4 1 Pole Toggle Manual Starter Flush w/Pilot	1	Each	0.4	0.4	49.21	20	Quote	0	0	0	0	0	20
EF-5 1 Pole Toggle Manual Starter Nema 4x w/Pilot	1	Each	1.75	1.8	49.21	89	Quote	0	0	0	0	0	89
EF-6 1 Pole Toggle Manual Starter Flush w/Pilot	1	Each	0.4	0.4	49.21	20	Quote	0	0	0	0	0	20
EF-7 30 Amp 3 Pole 600 Volt HD NF Safety Switch - Nema 4X	1	Each	3	3.0	49.21	148	Quote	0	0	0	0	0	148
EF-7 Size 1/480 Volt Fused Combination Starter - Nema 1	1	Each	3.3	3.3	49.21	162	Quote	0	0	0	0	0	162
LC-1 Lighting Contactor LC-1 6P Nema 1	1	Each	4	4.0	49.21	197	Quote	0	0	0	0	0	197
LC-2 Lighting Contactor LC-2 6P Nema 1	1	Each	4	4.0	49.21	197	Quote	0	0	0	0	0	197
DRYER 30 Amp 3 Pole 600 Volt HD NF Safety Switch - Nema 4X	3	Each	3	9.0	49.21	443	Quote	0	0	0	0	0	443
ERU-1 60 Amp 3 Pole 600 Volt HD NF Safety Switch - Nema 4X	1	Each	4.5	4.5	49.21	221	Quote	0	0	0	0	0	221
ERU-2 60 Amp 3 Pole 600 Volt HD NF Safety Switch - Nema 4X	1	Each	4.5	4.5	49.21	221	Quote	0	0	0	0	0	221
KEF-2 1 Pole Toggle Manual Starter Nema 4x w/Pilot	1	Each	1.75	1.8	49.21	89	Quote	0	0	0	0	0	89
KSF-1 30 Amp 3 Pole 600 Volt HD NF Safety Switch - Nema 4X	1	Each	3	3.0	49.21	148	Quote	0	0	0	0	0	148
ACCU-1 30 Amp 3 Pole 600 Volt HD NF Safety Switch - Nema 4X	1	Each	3	3.0	49.21	148	Quote	0	0	0	0	0	148
ACCU-2 30 Amp 3 Pole 600 Volt HD NF Safety Switch - Nema 4X	1	Each	3	3.0	49.21	148	Quote	0	0	0	0	0	148
HVAC-1 1 Pole Toggle Manual Starter Nema 1 w/Pilot & HOA	1	Each	1	1.0	49.21	49	Quote	0	0	0	0	0	49

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
HVAC-2 1 Pole Toggle Manual Starter Nema 1 w/Pilot & HOA	1	Each	1	1.0	49.21	49	Quote	0	0	0	0	0	49
RTU-1E 30 Amp 3 Pole 600 Volt HD NF Safety Switch - Nema 4X	1	Each	3	3.0	49.21	148	Quote	0	0	0	0	0	148
RTU-1N 60 Amp 3 Pole 600 Volt HD NF Safety Switch - Nema 4X	1	Each	4.5	4.5	49.21	221	Quote	0	0	0	0	0	221
RTU-2E 30 Amp 3 Pole 600 Volt HD NF Safety Switch - Nema 4X	1	Each	3	3.0	49.21	148	Quote	0	0	0	0	0	148
RTU-2N 60 Amp 3 Pole 600 Volt HD NF Safety Switch - Nema 4X	1	Each	4.5	4.5	49.21	221	Quote	0	0	0	0	0	221
RTU-3E 30 Amp 3 Pole 600 Volt HD NF Safety Switch - Nema 4X	1	Each	3	3.0	49.21	148	Quote	0	0	0	0	0	148
RTU-3N 30 Amp 3 Pole 600 Volt HD NF Safety Switch - Nema 4X	1	Each	3	3.0	49.21	148	Quote	0	0	0	0	0	148
RTU-4E 30 Amp 3 Pole 600 Volt HD NF Safety Switch - Nema 4X	1	Each	3	3.0	49.21	148	Quote	0	0	0	0	0	148
RTU-4N 30 Amp 3 Pole 600 Volt HD NF Safety Switch - Nema 4X	1	Each	3	3.0	49.21	148	Quote	0	0	0	0	0	148
RTU-5E 30 Amp 3 Pole 600 Volt HD NF Safety Switch - Nema 4X	1	Each	3	3.0	49.21	148	Quote	0	0	0	0	0	148
RTU-5N 30 Amp 3 Pole 600 Volt HD NF Safety Switch - Nema 4X	1	Each	3	3.0	49.21	148	Quote	0	0	0	0	0	148
RTU-6E 30 Amp 3 Pole 600 Volt HD NF Safety Switch - Nema 4X	1	Each	3	3.0	49.21	148	Quote	0	0	0	0	0	148
RTU-6N 30 Amp 3 Pole 600 Volt HD NF Safety Switch - Nema 4X	1	Each	3	3.0	49.21	148	Quote	0	0	0	0	0	148
WASHER 30 Amp 3 Pole 600 Volt HD NF Safety Switch - Nema 4X	2	Each	3	6.0	49.21	295	Quote	0	0	0	0	0	295
WTRHTR 1 Pole Toggle Manual Starter Nema 1 w/Pilot	4	Each	1	4.0	49.21	197	Quote	0	0	0	0	0	197
CLRCOMP 20 Amp 3 Pole Toggle Disconnect Nema 3R	2	Each	2.25	4.5	49.21	221	Quote	0	0	0	0	0	221
TVSS-DB Distribution Grade TVSS Unit	1	Each	3.5	3.5	49.21	172	Quote	0	0	0	0	0	172
TVSS-SE Service Entrance Grade TVSS Unit	1	Each	3.5	3.5	49.21	172	Quote	0	0	0	0	0	172
DISHWASH 30 Amp 3 Pole 600 Volt HD NF Safety Switch - Nema 4X	1	Each	3	3.0	49.21	148	Quote	0	0	0	0	0	148
DISPOSER 30 Amp 3 Pole 600 Volt HD NF Safety Switch - Nema 4X	1	Each	3	3.0	49.21	148	Quote	0	0	0	0	0	148
DWBSTHTR 30 Amp 3 Pole 600 Volt HD NF Safety Switch - Nema 4X	1	Each	3	3.0	49.21	148	Quote	0	0	0	0	0	148
ICEMAKER 20 Amp 3 Pole Toggle Disconnect - Nema 1	1	Each	2	2.0	49.21	98	Quote	0	0	0	0	0	98
KEF-2 PB Pushbutton for KEF-2	1	Each	1.25	1.3	49.21	64	Quote	0	0	0	0	0	64
KEF-1 PB Pushbutton for KSF-1	1	Each	1.25	1.3	49.21	64	Quote	0	0	0	0	0	64
RCIRPUMP 1 Pole Toggle Manual Starter Nema 1 w/Pilot	1	Each	1	1.0	49.21	49	Quote	0	0	0	0	0	49
TILTKETL 60 Amp 3 Pole 600 Volt HD NF Safety Switch - Nema 1	1	Each	3	3.0	49.21	148	Quote	0	0	0	0	0	148
Switchboard MDP			QUANTITY:		1 Each								
800 Amp Switchboard Pull Section Nema 1 480 Volt Three Phase 4 Wire	1	Each	15	15.0	49.21	738	Quote	0	0	0	0	0	738

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
800 Amp Switchboard Distribution Section Nema 1 480 Volt Three Phase 4 Wire	1	Each	15	15.0	49.21	738	0	0	0	0	0	0	738
800 Amp Switchboard Main Lug 480 Volt Three Phase 4 Wire	1	Each	7	7.0	49.21	344	0	0	0	0	0	0	344
Switchboard Breaker 60 Amp 3 Pole 480 Volt Three Phase	1	Each	0.9	0.9	49.21	44	0	0	0	0	0	0	44
Switchboard Breaker 200 Amp 3 Pole 480 Volt Three Phase	3	Each	2.1	6.3	49.21	310	0	0	0	0	0	0	310
Switchboard Breaker 400 Amp 3 Pole 480 Volt Three Phase	1	Each	5	5.0	49.21	246	0	0	0	0	0	0	246
Voltage & Amperage Metering Provisions 480 Volt Three Phase	1	Each	0	0.0	0	0	0	0	0	0	0	0	0
Switchboard MDP				49.2		2,420		0		0		0	2,420
Distribution Board SDP-EM			QUANTITY:		1 Each								
225 Amp Distribution Board - Nema 1 277/480 Volt Three Phase 4 Wire	1	Each	4.8	4.8	49.21	236	Quote	0	0	0	0	0	236
225 Amp Distribution Board Main Lug 277/480 Volt Three Phase 4 Wire	1	Each	2.25	2.3	49.21	113	0	0	0	0	0	0	113
Distribution Board Breaker 30 Amp 3 Pole 277/480 Volt Three Phase	3	Each	0.8	2.4	49.21	118	0	0	0	0	0	0	118
Distribution Board Breaker 60 Amp 3 Pole 277/480 Volt Three Phase	1	Each	0.9	0.9	49.21	44	0	0	0	0	0	0	44
Distribution Board Breaker 150 Amp 3 Pole 277/480 Volt Three Phase	1	Each	1.65	1.7	49.21	84	0	0	0	0	0	0	84
Distribution Board SDP-EM				12.1		595		0		0		0	595
Distribution Board SDP-A			QUANTITY:		1 Each								
400 Amp Distribution Board - Nema 1 208/240 Volt Three Phase 3 Wire	1	Each	6.5	6.5	49.21	320	Quote	0	0	0	0	0	320
400 Amp Distribution Board - Nema 1 208/240 Volt Three Phase 4 Wire	1	Each	6.5	6.5	49.21	320	0	0	0	0	0	0	320
Distribution Board Breaker 100 Amp 3 Pole 208/240 Volt Three Phase	3	Each	1.2	3.6	49.21	177	0	0	0	0	0	0	177
Distribution Board Breaker 225 Amp 3 Pole 208/240 Volt Three Phase	1	Each	2.4	2.4	49.21	118	0	0	0	0	0	0	118
Distribution Board Spare Breaker 60 Amp 3 Pole 208/240 Volt Three Phase	2	Each	0	0.0	0	0	0	0	0	0	0	0	0
Distribution Board Spare Breaker 100 Amp 3 Pole 208/240 Volt Three Phase	1	Each	0	0.0	0	0	0	0	0	0	0	0	0
Distribution Board SDP-A				19.0		935		0		0		0	935
Panelboard LP-A			QUANTITY:		1 Each								
225 Amp Panelboard Enclosure & Front 2urface Mounted 277-480 Volt Three Phase 4 Wire	1	Each	3.8	3.8	49.21	187	Quote	0	0	0	0	0	187
225 Amp Panelboard Main Lug Only 277-480 Volt Three Phase 4 Wire	1	Each	2.02	2.0	49.21	98	0	0	0	0	0	0	98

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
225 Amp Panelboard Equipment Grounding Buss 277-480 Volt	1	Each	0	0.0	0	0	0	0	0	0	0	0	0
Panelboard Breaker 20 Amp 3 Pole 277-480 Volt Three Phase	23	Each	0.71	16.3	49.21	802	0	0	0	0	0	0	802
Panelboard Spare Circuit Breaker 20 Amp 1 Pole 277 Volt Single Phase	5	Each	0	0.0	0	0	0	0	0	0	0	0	0
Panelboard Circuit Breaker Space 20 Amp 1 Pole 277 Volt Single Phase	14	Each	0	0.0	0	0	0	0	0	0	0	0	0
Panelboard LP-A				22.1		1,087		0		0		0	1,087
Panelboard LP-EA			QUANTITY:		1 Each								
150 Amp Panelboard Enclosure & Front Surface Mounted 277-480 Volt Three Phase 4 Wire	1	Each	3.4	3.4	49.21	167	Quote	0	0	0	0	0	167
150 Amp Panelboard Main Lug Only 277-480 Volt Three Phase 4 Wire	1	Each	1.52	1.5	49.21	74	0	0	0	0	0	0	74
225 Amp Panelboard Equipment Grounding Buss 277-480 Volt	1	Each	0	0.0	0	0	0	0	0	0	0	0	0
Panelboard Breaker 20 Amp 1 Pole 277 Volt Single Phase	9	Each	0.26	2.3	49.21	113	0	0	0	0	0	0	113
Panelboard Breaker 20 Amp 3 Pole 277-480 Volt Three Phase	7	Each	0.71	5.0	49.21	246	0	0	0	0	0	0	246
Panelboard Breaker 60 Amp 3 Pole 277-480 Volt Three Phase	1	Each	0.92	0.9	49.21	44	0	0	0	0	0	0	44
Panelboard Spare Circuit Breaker 20 Amp 1 Pole 277 Volt Single Phase	3	Each	0	0.0	0	0	0	0	0	0	0	0	0
Panelboard Circuit Breaker Space 20 Amp 1 Pole 277 Volt Single Phase	6	Each	0	0.0	0	0	0	0	0	0	0	0	0
Panelboard LP-EA				13.1		644		0		0		0	644
Panelboard RP-C			QUANTITY:		1 Each								
100 Amp Panelboard Enclosure & Front Surface Mounted 120-208/240 Volt Three Phase 4 Wire	1	Each	3	3.0	49.21	148	Quote	0	0	0	0	0	148
100 Amp Panelboard Main Lug Only 120-208/240 Volt Three Phase 4 Wire	1	Each	1.14	1.1	49.21	54	0	0	0	0	0	0	54
125 Amp Panelboard Equipment Grounding Buss 120-208/240 Volt	1	Each	0	0.0	0	0	0	0	0	0	0	0	0
Panelboard Breaker 20 Amp 1 Pole 120 Volt Single Phase	27	Each	0.34	9.2	49.21	453	17.87	482	0	0	0	0	935
Panelboard GFCI Circuit Breaker 20 Amp 2 Pole 120-208/240 Volt Single Phase	3	Each	0.71	2.1	49.21	103	0	0	0	0	0	0	103
Panelboard Spare Circuit Breaker 20 Amp 1 Pole 120 Volt Single Phase	5	Each	0	0.0	0	0	0	0	0	0	0	0	0
Panelboard Circuit Breaker Space 20 Amp 1 Pole 120 Volt Single Phase	4	Each	0.34	1.4	0	0	Quote	0	0	0	0	0	0
Panelboard RP-C				16.8		758		482		0		0	1,240

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Panelboard Breaker 20 Amp 1 Pole 120 Volt Single Phase	35	Each	0.34	11.9	49.21	586	17.87	625	0	0	0	0	1,211
Panelboard GFCI Circuit Breaker 20 Amp 2 Pole 120-208/240 Volt Single Phase	3	Each	0.71	2.1	49.21	103	0	0	0	0	0	0	103
Panelboard Spare Circuit Breaker 20 Amp 1 Pole 120 Volt Single Phase	1	Each	0	0.0	0	0	0	0	0	0	0	0	0
				18.1		891		625		0		0	1,516
Panelboard RP-D				18.1		891		625		0		0	1,516
Panelboard RP-F				14.3		704		417		0		0	1,121
100 Amp Panelboard Enclosure & Front Surface Mounted 120-208/240 Volt Three Phase 4 Wire	1	Each	QUANTITY: 3	3.0	1 Each 49.21	148	Quote	0	0	0	0	0	148
100 Amp Panelboard Main Lug Only 120-208/240 Volt Three Phase 4 Wire	1	Each	1.14	1.1	49.21	54	0	0	0	0	0	0	54
125 Amp Panelboard Equipment Grounding Buss 120-208/240 Volt	1	Each	0	0.0	0	0	0	0	0	0	0	0	0
Panelboard Breaker 20 Amp 1 Pole 120 Volt Single Phase	22	Each	0.34	7.5	49.21	369	17.87	393	0	0	0	0	762
Panelboard Breaker 30 Amp 2 Pole 208-240 Volt Single Phase	1	Each	0.58	0.6	49.21	30	23.71	24	0	0	0	0	54
Panelboard GFCI Circuit Breaker 20 Amp 2 Pole 120-208/240 Volt Single Phase	3	Each	0.71	2.1	49.21	103	0	0	0	0	0	0	103
Panelboard Spare Circuit Breaker 20 Amp 1 Pole 120 Volt Single Phase	12	Each	0	0.0	0	0	0	0	0	0	0	0	0
				14.3		704		417		0		0	1,121
Panelboard RP-F				14.3		704		417		0		0	1,121
Panelboard RP-EB				18.1		841		813		0		0	1,654
100 Amp Panelboard Enclosure & Front Surface Mounted 120-208/240 Volt Three Phase 4 Wire	1	Each	QUANTITY: 3	3.0	1 Each 49.21	148	Quote	0	0	0	0	0	148
100 Amp 3 Pole Panelboard Main Circuit Breaker 120-208/240 Volt Three Phase 4 Wire	1	Each	1.38	1.4	49.21	69	0	0	0	0	0	0	69
125 Amp Panelboard Equipment Grounding Buss 120-208/240 Volt	1	Each	0	0.0	0	0	0	0	0	0	0	0	0
Panelboard Breaker 20 Amp 1 Pole 120 Volt Single Phase	22	Each	0.34	7.5	49.21	369	17.87	393	0	0	0	0	762
Panelboard Breaker 20 Amp 2 Pole 208-240 Volt Single Phase	2	Each	0.52	1.0	49.21	49	23.71	47	0	0	0	0	96
Panelboard Breaker 20 Amp 3 Pole 208-240 Volt Three Phase	3	Each	0.71	2.1	49.21	103	124.32	373	0	0	0	0	476
Panelboard GFCI Circuit Breaker 20 Amp 2 Pole 120-208/240 Volt Single Phase	3	Each	0.71	2.1	49.21	103	0	0	0	0	0	0	103
Panelboard Spare Circuit Breaker 20 Amp 1 Pole 120 Volt Single Phase	4	Each	0	0.0	0	0	0	0	0	0	0	0	0
Panelboard Circuit Breaker Space 20 Amp 1 Pole 120 Volt Single Phase	3	Each	0.34	1.0	0	0	Quote	0	0	0	0	0	0
				18.1		841		813		0		0	1,654
Panelboard RP-EB				18.1		841		813		0		0	1,654

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Panelboard RP-UPS			QUANTITY:		1 Each								
100 Amp Panelboard Enclosure & Front Flush Mounted 120-208/240 Volt Three Phase 4 Wire	1	Each	4	4.0	49.21	197	Quote	0	0	0	0	0	197
60 Amp 3 Pole Panelboard Main Circuit Breaker 120-208/240 Volt Three Phase 4 Wire	1	Each	1.06	1.1	49.21	54	0	0	0	0	0	0	54
125 Amp Panelboard Equipment Grounding Buss 120-208/240 Volt	1	Each	0	0.0	0	0	0	0	0	0	0	0	0
Panelboard Breaker 20 Amp 1 Pole 120 Volt Single Phase	12	Each	0.34	4.1	49.21	202	17.87	214	0	0	0	0	416
Panelboard GFCI Circuit Breaker 20 Amp 2 Pole 120-208/240 Volt Single Phase	3	Each	0.71	2.1	49.21	103	0	0	0	0	0	0	103
Panelboard Spare Circuit Breaker 20 Amp 1 Pole 120 Volt Single Phase	2	Each	0	0.0	0	0	0	0	0	0	0	0	0
Panelboard Circuit Breaker Space 20 Amp 1 Pole 120 Volt Single Phase	16	Each	0.34	5.4	0	0	Quote	0	0	0	0	0	0
Panelboard RP-UPS				16.7		556		214	0		0		770
Panelboard RP-K			QUANTITY:		1 Each								
225 Amp Panelboard Enclosure & Front Flush Mounted 120-208/240 Volt Three Phase 4 Wire	1	Each	5	5.0	49.21	246	Quote	0	0	0	0	0	246
225 Amp Panelboard Main Lug Only 120-208/240 Volt Three Phase 4 Wire	1	Each	2.02	2.0	49.21	98	0	0	0	0	0	0	98
225 Amp Panelboard Equipment Grounding Buss 120-208/240 Volt	1	Each	0	0.0	0	0	0	0	0	0	0	0	0
Panelboard Breaker 20 Amp 1 Pole 120 Volt Single Phase	13	Each	0.34	4.4	49.21	217	17.87	232	0	0	0	0	449
Panelboard Breaker 20 Amp 3 Pole 208-240 Volt Three Phase	2	Each	0.71	1.4	49.21	69	124.32	249	0	0	0	0	318
Panelboard Breaker 25 Amp 1 Pole 120 Volt Single Phase	1	Each	0.38	0.4	49.21	20	17.87	18	0	0	0	0	38
Panelboard Breaker 30 Amp 2 Pole 208-240 Volt Single Phase	1	Each	0.58	0.6	49.21	30	23.71	24	0	0	0	0	54
Panelboard GFCI Circuit Breaker 20 Amp 2 Pole 120-208/240 Volt Single Phase	3	Each	0.71	2.1	49.21	103	0	0	0	0	0	0	103
Panelboard Breaker 20 Amp 1 Pole Shunt Trip Operated 120 Volt Single Phase	5	Each	0.34	1.7	49.21	84	0	0	0	0	0	0	84
Panelboard Breaker 40 Amp 3 Pole Shunt Trip Operated 208-240 Volt Three Phase	1	Each	1.02	1.0	49.21	49	0	0	0	0	0	0	49
Panelboard Spare Circuit Breaker 20 Amp 1 Pole 120 Volt Single Phase	6	Each	0	0.0	0	0	0	0	0	0	0	0	0
Panelboard RP-K				18.6		916		523	0		0		1,439
*** SWITCHBOARDS, PANELBOARDS, LOOSE GEAR ESTIMATED COST ***				422.1		20,391		3,481	0		0		23,872

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600 VOLT DISTRIBUTION SYSTEM													
3/4" Electrical Metallic Tubing	65	Lin Ft	0.05	3.3	49.21	162	0.38	25	0	0	0	0	187
1" Electrical Metallic Tubing	45	Lin Ft	0.055	2.5	49.21	123	0.64	29	0	0	0	0	152
3/4" Galvanized Rigid Steel Conduit Neca Normal Column	10	Lin Ft	0.06	0.6	49.21	30	1.57	16	0	0	0	0	46
1" Galvanized Rigid Steel Conduit Neca Normal Column	35	Lin Ft	0.07	2.5	49.21	123	2.49	87	0	0	0	0	210
1-1/2" Galvanized Rigid Steel Conduit Neca Normal Column	36	Lin Ft	0.09	3.2	49.21	157	3.96	143	0	0	0	0	300
2" Galvanized Rigid Steel Conduit Neca Normal Column	12	Lin Ft	0.11	1.3	49.21	64	5.02	60	0	0	0	0	124
2-1/2" Galvanized Rigid Steel Conduit Neca Normal Column	10	Lin Ft	0.15	1.5	49.21	74	9.3	93	0	0	0	0	167
3-1/2" Galvanized Rigid Steel Conduit Neca Normal Column	5	Lin Ft	0.25	1.3	49.21	64	13.69	68	0	0	0	0	132
1" Poly Vinyl Chloride Conduit Schedule 40 Under Slab	45	Lin Ft	0.0375	1.7	49.21	84	0.25	11	0	0	0	0	95
3/4" EMT Set Screw Steel Coupling	3	Each	0	0.0	0	0	0.881	3	0	0	0	0	3
1" EMT Set Screw Steel Coupling	3	Each	0	0.0	0	0	0.81	2	0	0	0	0	2
3/4" EMT Set Screw Die Cast Coupling	5	Each	0	0.0	0	0	0.32	2	0	0	0	0	2
1" EMT Set Screw Die Cast Coupling	2	Each	0	0.0	0	0	0.54	1	0	0	0	0	1
3/4" EMT Set Screw Steel Connector Non Insulated Throat	3	Each	0.1	0.3	49.21	15	0.587	2	0	0	0	0	17
1" EMT Set Screw Steel Connector Non Insulated Throat	2	Each	0.12	0.2	49.21	10	0.67	1	0	0	0	0	11
3/4" EMT Set Screw Die Cast Connector Non Insulated Throat	2	Each	0.1	0.2	49.21	10	0.16	1	0	0	0	0	11
1" EMT Set Screw Die Cast Connector Non Insulated Throat	2	Each	0.12	0.2	49.21	10	0.32	1	0	0	0	0	11
1" GRC or IMC Coupling	1	Each	0	0.0	0	0	1.58	2	0	0	0	0	2
1-1/2" GRC or IMC Coupling	4	Each	0	0.0	0	0	2.49	10	0	0	0	0	10
2" GRC or IMC Coupling	2	Each	0	0.0	0	0	3.2863	7	0	0	0	0	7
2-1/2" GRC or IMC Coupling	2	Each	0	0.0	0	0	8.7	17	0	0	0	0	17
3-1/2" GRC or IMC Coupling	1	Each	0	0.0	0	0	14.16	14	0	0	0	0	14
1" GRC 3-Piece Coupling (Erickson)	4	Each	0.8	3.2	49.21	157	4.54	18	0	0	0	0	175
1-1/2" GRC 3-Piece Coupling (Erickson)	4	Each	1.05	4.2	49.21	207	10.1	40	0	0	0	0	247
2" GRC 3-Piece Coupling (Erickson)	1	Each	1.25	1.3	49.21	64	19.7506	20	0	0	0	0	84
1-1/2" GRC 90 Degree Elbow Standard Radius	4	Each	0.75	3.0	49.21	148	10.62	42	0	0	0	0	190
2" GRC 90 Degree Elbow Standard Radius	4	Each	1	4.0	49.21	197	15.1131	60	0	0	0	0	257

DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
2-1/2" GRC 90 Degree Elbow Standard Radius	2	Each	1.5	3.0	49.21	148	27.7	55	0	0	0	0	203
3-1/2" GRC 90 Degree Elbow Standard Radius	2	Each	2.5	5.0	49.21	246	62.67	125	0	0	0	0	371
3/4" Locknut	2	Each	0.12	0.2	49.21	10	0.165	1	0	0	0	0	11
1" Locknut	20	Each	0.14	2.8	49.21	138	0.3625	7	0	0	0	0	145
1-1/2" Locknut	24	Each	0.2	4.8	49.21	236	0.6	14	0	0	0	0	250
2" Locknut	8	Each	0.27	2.2	49.21	108	0.8663	7	0	0	0	0	115
2-1/2" Locknut	4	Each	0.33	1.3	49.21	64	2.44	10	0	0	0	0	74
3-1/2" Locknut	2	Each	0.47	0.9	49.21	44	5.28	11	0	0	0	0	55
3/4" Plastic Bushing	1	Each	0.12	0.1	49.21	5	0.1556	1	0	0	0	0	6
1" Plastic Bushing	4	Each	0.14	0.6	49.21	30	0.2553	1	0	0	0	0	31
1" Steel Grounding Bushing Insulated	8	Each	0.22	1.8	49.21	89	3.74	30	0	0	0	0	119
1-1/2" Steel Grounding Bushing Insulated	8	Each	0.4	3.2	49.21	157	5.85	47	0	0	0	0	204
2" Steel Grounding Bushing Insulated	2	Each	0.46	0.9	49.21	44	7.0406	14	0	0	0	0	58
3-1/2" Steel Grounding Bushing Insulated	2	Each	0.66	1.3	49.21	64	18.304	37	0	0	0	0	101
1-1/2" Die Cast Grounding Bushing Insulated	4	Each	0.4	1.6	49.21	79	3.84	15	0	0	0	0	94
2" Die Cast Grounding Bushing Insulated	2	Each	0.46	0.9	49.21	44	3.99	8	0	0	0	0	52
2-1/2" Die Cast Grounding Bushing Insulated	2	Each	0.54	1.1	49.21	54	6.9	14	0	0	0	0	68
3-1/2" Die Cast Grounding Bushing Insulated	1	Each	0.66	0.7	49.21	34	9.97	10	0	0	0	0	44
1" GRC or IMC Cut & Thread	4	Each	0.32	1.3	49.21	64	0	0	0	0	0	0	64
1-1/2" GRC or IMC Cut & Thread	8	Each	0.51	4.1	49.21	202	0	0	0	0	0	0	202
2" GRC or IMC Cut & Thread	3	Each	0.63	1.9	49.21	93	0	0	0	0	0	0	93
2-1/2" GRC or IMC Cut & Thread	2	Each	1.05	2.1	49.21	103	0	0	0	0	0	0	103
3-1/2" GRC or IMC Cut & Thread	1	Each	1.49	1.5	49.21	74	0	0	0	0	0	0	74
1-1/2" PVC Schedule 40-80 Female Adaptor	4	Each	0.25	1.0	49.21	49	1.13	5	0	0	0	0	54
2" PVC Schedule 40-80 Female Adaptor	6	Each	0.3	1.8	49.21	89	1.54	9	0	0	0	0	98
2-1/2" PVC Schedule 40-80 Female Adaptor	2	Each	0.18	0.4	49.21	20	3.02	6	0	0	0	0	26
3-1/2" PVC Schedule 40-80 Female Adaptor	3	Each	0.65	2.0	49.21	98	5.83	17	0	0	0	0	115
1" PVC Schedule 40-80 Male Adaptor	4	Each	0.18	0.7	49.21	34	0.7111	3	0	0	0	0	37

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ELECTRICAL ESTIMATE
 ANYTOWN, ANYWHERE
 ESTIMATE DETAIL - ELECTRICAL SYSTEMS

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 PREPARED BY.: TEMPEST COMPANY
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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
2" PVC Schedule 40-80 Bell End	2	Each	0.23	0.5	49.21	25	3.78	8	0	0	0	0	33
3-1/2" PVC Schedule 40-80 Bell End	1	Each	0.35	0.4	49.21	20	4.86	5	0	0	0	0	25
3/4" Flexible Conduit Connector Steel Squeeze Style - Straight	1	Each	0.14	0.1	49.21	5	1.226	1	0	0	0	0	6
1" Flexible Conduit Connector Steel Squeeze Style - Straight	2	Each	0.17	0.3	49.21	15	2.98	6	0	0	0	0	21
3/4" Flexible Conduit Connector Steel Squeeze Style - 90 Degree	1	Each	0.17	0.2	49.21	10	2.45	2	0	0	0	0	12
1" Flexible Conduit Connector Steel Squeeze Style - 90 Degree	2	Each	0.21	0.4	49.21	20	4.23	8	0	0	0	0	28
3/4" Straight Sealrite Connector Die Cast Non Insulated Throat	1	Each	0.15	0.2	49.21	10	1.7229	2	0	0	0	0	12
1" Straight Sealrite Connector Die Cast Non Insulated Throat	2	Each	0.2	0.4	49.21	20	3.22	6	0	0	0	0	26
1-1/2" Straight Sealrite Connector Die Cast Non Insulated Throat	1	Each	0.3	0.3	49.21	15	7.44	7	0	0	0	0	22
2" Straight Sealrite Connector Die Cast Non Insulated Throat	1	Each	0.35	0.4	49.21	20	11.39	11	0	0	0	0	31
3-1/2" Straight Sealrite Connector Die Cast Non Insulated Throat	1	Each	0.6	0.6	49.21	30	93.01	93	0	0	0	0	123
3/4" 90 Degree Sealrite Connector Die Cast Non Insulated Throat	1	Each	0.18	0.2	49.21	10	3.2869	3	0	0	0	0	13
1" 90 Degree Sealrite Connector Die Cast Non Insulated Throat	2	Each	0.25	0.5	49.21	25	7.33	15	0	0	0	0	40
1-1/2" 90 Degree Sealrite Connector Die Cast Non Insulated Throat	1	Each	0.37	0.4	49.21	20	15.47	15	0	0	0	0	35
2" 90 Degree Sealrite Connector Die Cast Non Insulated Throat	1	Each	0.43	0.4	49.21	20	22.55	23	0	0	0	0	43
3-1/2" 90 Degree Sealrite Connector Die Cast Non Insulated Throat	1	Each	0.75	0.8	49.21	39	126.5	127	0	0	0	0	166
3/4" EMT Conduit Hanger w/Bolt	4	Each	0.25	1.0	49.21	49	0.184	1	0	0	0	0	50
1" EMT Conduit Hanger w/Bolt	3	Each	0.25	0.8	49.21	39	0.21	1	0	0	0	0	40
3/4" RGS Unistrut Conduit Clamp	1	Each	0.03	0.1	49.21	5	0.676	1	0	0	0	0	6
1" RGS Unistrut Conduit Clamp	5	Each	0.03	0.2	49.21	10	0.78	4	0	0	0	0	14
1-1/2" RGS Unistrut Conduit Clamp	5	Each	0.04	0.2	49.21	10	1.07	5	0	0	0	0	15
2" RGS Unistrut Conduit Clamp	2	Each	0.04	0.1	49.21	5	1.1245	2	0	0	0	0	7
2-1/2" RGS Unistrut Conduit Clamp	2	Each	0.05	0.1	49.21	5	1.28	3	0	0	0	0	8
3-1/2" RGS Unistrut Conduit Clamp	1	Each	0.06	0.1	49.21	5	1.61	2	0	0	0	0	7
1-Hole #14 to #4 Bronze Ground Lug Mechanical	2	Each	0.35	0.7	49.21	34	8.15	16	0	0	0	0	50
1-Hole #4 to #1 Bronze Ground Lug Mechanical	1	Each	0.5	0.5	49.21	25	14.2	14	0	0	0	0	39
Cadweld #3/0 Copper Tee	1	Each	1.6	1.6	49.21	79	6.55	7	0	0	0	0	86
*** 600 VOLT DISTRIBUTION SYSTEM ESTIMATED COST ***				95.2		4,689		1,610		0		0	6,299

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ELECTRICAL ESTIMATE
ANYTOWN, ANYWHERE
POWER AND LIGHT SUMMARY - ELECTRICAL SYSTEMS

PREPARED FOR: ALL OF OUR CLIENTS
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DESCRIPTION	LABOR MANHOURS	LABOR DOLLARS	MATERIAL DOLLARS	EQUIPMENT DOLLARS	SUBCONTRACT DOLLARS	TOTAL DOLLARS
DETENTION GRADE WALL PLATES	40.6	1,998	0	0	0	1,998
BRANCH POWER SYSTEM	1,612.2	79,337	16,831	0	0	96,168
EQUIPMENT WIRING	972.2	47,840	9,792	0	0	57,632
LIGHTING FIXTURES AND LAMPS	743.5	36,584	0	0	0	36,584
BRANCH LIGHTING SYSTEM	2,136.2	105,123	24,164	0	0	129,287
*** POWER AND LIGHT ESTIMATED COST ***	5,504.7	270,882	50,787	0	0	321,669

DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN HOURS UNIT	LABOR DOLLARS TOTAL	LABOR DOLLARS UNIT	MATERIAL DOLLARS TOTAL	MATERIAL DOLLARS UNIT	EQUIPMENT DOLLARS TOTAL	EQUIPMENT DOLLARS UNIT	SUBCONTRACT DOLLARS TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL DOLLARS	
DETENTION GRADE WALL PLATES													
Detention Grade Duplex Plate	49	Each	0.2	9.8	49.21	482	Quote	0	0	0	0	0	482
Detention Grade GFI Duplex Plate	42	Each	0.2	8.4	49.21	413	Quote	0	0	0	0	0	413
Detention Grade Data - Voice Plate	30	Each	0.6	18.0	49.21	886	Quote	0	0	0	0	0	886
Detention Grade Switch Plate	9	Each	0.2	1.8	49.21	89	Quote	0	0	0	0	0	89
Detention Grade CATV Plate	13	Each	0.2	2.6	49.21	128	Quote	0	0	0	0	0	128
*** DETENTION GRADE WALL PLATES ESTIMATED COST ***				40.6		1,998		0		0		0	1,998
BRANCH POWER SYSTEM													
3/4" Electrical Metallic Tubing	95	Lin Ft	0.05	4.8	49.21	236	0.38	36	0	0	0	0	272
1/2" Galvanized Rigid Steel Conduit Neca Normal Column	105	Lin Ft	0.05	5.3	49.21	261	1.1	116	0	0	0	0	377
3/4" Galvanized Rigid Steel Conduit Neca Normal Column	1,854	Lin Ft	0.06	111.2	49.21	5,472	1.57	2,911	0	0	0	0	8,383
3/4" Poly Vinyl Chloride Conduit Schedule 40 Under Slab	6,840	Lin Ft	0.03	205.2	49.21	10,098	0.17	1,163	0	0	0	0	11,261
1/2" Steel Flexible Conduit	55	Lin Ft	0.04	2.2	49.21	108	0.25	14	0	0	0	0	122
3/4" EMT Set Screw Steel Coupling	11	Each	0	0.0	0	0	0.881	10	0	0	0	0	10
3/4" EMT Set Screw Steel Connector Non Insulated Throat	21	Each	0.1	2.1	49.21	103	0.587	12	0	0	0	0	115
3/4" GRC or IMC Coupling	642	Each	0	0.0	0	0	1.072	688	0	0	0	0	688
1/2" GRC 3-Piece Coupling (Erickson)	4	Each	0.6	2.4	49.21	118	1.82	7	0	0	0	0	125
3/4" GRC 3-Piece Coupling (Erickson)	1	Each	0.7	0.7	49.21	34	2.9552	3	0	0	0	0	37
3/4" GRC 90 Degree Elbow Standard Radius	642	Each	0.4	256.8	49.21	12,637	3.7623	2,415	0	0	0	0	15,052
1/2" Locknut	16	Each	0.1	1.6	49.21	79	0.09	1	0	0	0	0	80
3/4" Locknut	1,290	Each	0.12	154.8	49.21	7,618	0.165	213	0	0	0	0	7,831
1/2" Plastic Bushing	8	Each	0.1	0.8	49.21	39	0.09	1	0	0	0	0	40
3/4" Plastic Bushing	3	Each	0.12	0.4	49.21	20	0.1556	1	0	0	0	0	21
3/4" Steel Grounding Bushing Insulated	642	Each	0.21	134.8	49.21	6,634	3.2876	2,111	0	0	0	0	8,745
1/2" GRC or IMC Cut & Thread	4	Each	0.21	0.8	49.21	39	0	0	0	0	0	0	39
3/4" GRC or IMC Cut & Thread	643	Each	0.25	160.8	49.21	7,913	0	0	0	0	0	0	7,913
3/4" PVC Schedule 40-80 Female Adaptor	642	Each	0.16	102.7	49.21	5,054	0.576	370	0	0	0	0	5,424
1/2" Flexible Conduit Connector Steel Squeeze Style - Straight	11	Each	0.12	1.3	49.21	64	1.172	13	0	0	0	0	77

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 ANYTOWN, ANYWHERE
 ESTIMATE DETAIL - ELECTRICAL SYSTEMS

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN HOURS UNIT	LABOR DOLLARS TOTAL	LABOR DOLLARS UNIT	MATERIAL DOLLARS TOTAL	MATERIAL DOLLARS UNIT	EQUIPMENT DOLLARS TOTAL	EQUIPMENT DOLLARS UNIT	SUBCONTRACT DOLLARS TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL DOLLARS
1/2" Flexible Conduit Connector Steel Squeeze Style - 90 Degree	11	Each	0.15	1.7	49.21	84	1.56	17	0	0	0	101
1/2" RGS Conduit Hanger w/Bolt	13	Each	0.25	3.3	49.21	162	0.16	2	0	0	0	164
3/4" RGS Unistrut Conduit Clamp	11	Each	0.03	0.3	49.21	15	0.676	7	0	0	0	22
3/4" Conduit to 1/8" Steel Beam Flange Mounted Parallel Clip	3	Each	0.01	0.1	49.21	5	0.56	2	0	0	0	7
3/4" Conduit to 1/8" Steel Beam Flange Mounted Right Angle Clip	10	Each	0.01	0.1	49.21	5	0.7	7	0	0	0	12
Unistrut (Deep)	2	Lin Ft	0.08	0.2	49.21	10	4.13	8	0	0	0	18
#12 THHN Stranded Copper Wire	26,717	Lin Ft	0.006	160.3	49.21	7,888	0.08	2,137	0	0	0	10,025
#10 THHN Stranded Copper Wire	5,528	Lin Ft	0.0075	41.5	49.21	2,042	0.07	387	0	0	0	2,429
Red Wing Nut	33	Each	0	0.0	0	0	0.06959	2	0	0	0	2
4" Square x 1-1/2" Deep Box w/Bracket 1/2" & 3/4" Knockouts	4	Each	0.3	1.2	49.21	59	0.842	3	0	0	0	62
4" Square 1 Gang Plaster Ring 5/8" Deep	4	Each	0.15	0.6	49.21	30	1.58	6	0	0	0	36
1 Gang Aluminum Bell Box Weatherproof Three 1/2" Hubs	4	Each	0.7	2.8	49.21	138	3.96	16	0	0	0	154
1 Gang Masonry Box 3-1/2" Deep	231	Each	0.35	80.9	49.21	3,981	2.65	612	0	0	0	4,593
2 Gang Masonry Box 3-1/2" Deep	75	Each	0.37	27.8	49.21	1,368	4.483	336	0	0	0	1,704
Ground Screw & Bare Pigtail	303	Each	0.02	6.1	49.21	300	0.3278	99	0	0	0	399
20 Amp 125 Volt Duplex Receptacle Ivory Specification Grade Nema 5-20R Configuration	172	Each	0.3	51.6	49.21	2,539	4.48	771	0	0	0	3,310
20 Amp 125 Volt GFI Duplex Receptacle Ivory Specification Grade Nema 5-20R Configuration	124	Each	0.35	43.4	49.21	2,136	9.29	1,152	0	0	0	3,288
1 Gang Duplex Wall Receptacle Plate Ivory Plastic	104	Each	0.1	10.4	49.21	512	0.18	19	0	0	0	531
2 Gang Duplex Wall Receptacle Plate Ivory Plastic	26	Each	0.12	3.1	49.21	153	0.39	10	0	0	0	163
1 Gang Blank Wall Plate Stainless Steel 430	4	Each	0.1	0.4	49.21	20	0.92	4	0	0	0	24
2 Gang Blank Wall Plate Stainless Steel 430	7	Each	0.12	0.8	49.21	39	2.64	18	0	0	0	57
1 Gang Aluminum GFI Horizontal Cover Weatherproof	13	Each	0.2	2.6	49.21	128	5.11	66	0	0	0	194
1 Gang Aluminum GFI Vertical Cover Weatherproof	4	Each	0.2	0.8	49.21	39	5.11	20	0	0	0	59
1 Gang Decorator or GFI Wall Plate Ivory Plastic	65	Each	0.1	6.5	49.21	320	0.31	20	0	0	0	340
#14-12-10 Wire Termination Labor	33	Each	0.18	5.9	49.21	290	0	0	0	0	0	290
Hubbell 1G5352S Blue TVSS Duplex	23	Each	0.35	8.1	49.21	399	35.03	806	0	0	0	1,205
20 Amp 125 Volt Red Duplex Receptacle (5-20R) SG	10	Each	0.3	3.0	49.21	148	5.43	54	0	0	0	202

DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	DOLLARS TOTAL	MATERIAL DOLLARS UNIT	DOLLARS TOTAL	EQUIPMENT DOLLARS UNIT	DOLLARS TOTAL	SUBCONTRACT DOLLARS UNIT	DOLLARS TOTAL	TOTAL DOLLARS
Engrave Device Plate	22	Each	0	0.0	0	0	7.5	165	0	0	0	0	165
*** BRANCH POWER SYSTEM ESTIMATED COST ***				1,612.2		79,337		16,831		0		0	96,168
EQUIPMENT WIRING													
1/2" Electrical Metallic Tubing	2,570	Lin Ft	0.045	115.7	49.21	5,694	0.2	514	0	0	0	0	6,208
3/4" Electrical Metallic Tubing	400	Lin Ft	0.05	20.0	49.21	984	0.38	152	0	0	0	0	1,136
1" Electrical Metallic Tubing	465	Lin Ft	0.055	25.6	49.21	1,260	0.64	298	0	0	0	0	1,558
1/2" Galvanized Rigid Steel Conduit Neca Normal Column	750	Lin Ft	0.05	37.5	49.21	1,845	1.1	825	0	0	0	0	2,670
3/4" Galvanized Rigid Steel Conduit Neca Normal Column	373	Lin Ft	0.06	22.4	49.21	1,102	1.57	586	0	0	0	0	1,688
1" Galvanized Rigid Steel Conduit Neca Normal Column	30	Lin Ft	0.07	2.1	49.21	103	2.49	75	0	0	0	0	178
3/4" Poly Vinyl Chloride Conduit Schedule 40 Under Slab	1,180	Lin Ft	0.03	35.4	49.21	1,742	0.17	201	0	0	0	0	1,943
1/2" Liquidtite Flexible Conduit Type EF	240	Lin Ft	0.06	14.4	49.21	709	1.04	250	0	0	0	0	959
3/4" Liquidtite Flexible Conduit Type EF	10	Lin Ft	0.075	0.8	49.21	39	0.82	8	0	0	0	0	47
1" Liquidtite Flexible Conduit Type EF	20	Lin Ft	0.1	2.0	49.21	98	1.24	25	0	0	0	0	123
1/2" Steel Flexible Conduit	755	Lin Ft	0.04	30.2	49.21	1,486	0.25	189	0	0	0	0	1,675
1/2" EMT Set Screw Steel Coupling	295	Each	0	0.0	0	0	0.45	133	0	0	0	0	133
3/4" EMT Set Screw Steel Coupling	44	Each	0	0.0	0	0	0.881	39	0	0	0	0	39
1" EMT Set Screw Steel Coupling	50	Each	0	0.0	0	0	0.81	41	0	0	0	0	41
1/2" EMT Set Screw Steel Connector Non Insulated Throat	76	Each	0.08	6.1	49.21	300	0.351	27	0	0	0	0	327
3/4" EMT Set Screw Steel Connector Non Insulated Throat	12	Each	0.1	1.2	49.21	59	0.587	7	0	0	0	0	66
1" EMT Set Screw Steel Connector Non Insulated Throat	3	Each	0.12	0.4	49.21	20	0.67	2	0	0	0	0	22
3/4" GRC or IMC Coupling	40	Each	0	0.0	0	0	1.072	43	0	0	0	0	43
1/2" GRC 3-Piece Coupling (Erickson)	36	Each	0.6	21.6	49.21	1,063	1.82	66	0	0	0	0	1,129
3/4" GRC 3-Piece Coupling (Erickson)	1	Each	0.7	0.7	49.21	34	2.9552	3	0	0	0	0	37
3/4" GRC 90 Degree Elbow Standard Radius	40	Each	0.4	16.0	49.21	787	3.7623	150	0	0	0	0	937
1/2" Locknut	228	Each	0.1	22.8	49.21	1,122	0.09	21	0	0	0	0	1,143
3/4" Locknut	92	Each	0.12	11.0	49.21	541	0.165	15	0	0	0	0	556
1" Locknut	6	Each	0.14	0.8	49.21	39	0.3625	2	0	0	0	0	41
1/2" Plastic Bushing	114	Each	0.1	11.4	49.21	561	0.09	10	0	0	0	0	571

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ELECTRICAL ESTIMATE
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PREPARED FOR: ALL OF OUR CLIENTS
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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN HOURS UNIT	LABOR DOLLARS TOTAL	LABOR DOLLARS UNIT	MATERIAL DOLLARS TOTAL	MATERIAL DOLLARS UNIT	EQUIPMENT DOLLARS UNIT	EQUIPMENT DOLLARS TOTAL	SUBCONTRACT DOLLARS UNIT	SUBCONTRACT DOLLARS TOTAL	TOTAL DOLLARS
3/4" Plastic Bushing	6	Each	0.12	0.7	49.21	34	0.1556	1	0	0	0	35
1" Plastic Bushing	3	Each	0.14	0.4	49.21	20	0.2553	1	0	0	0	21
3/4" Steel Grounding Bushing Insulated	40	Each	0.21	8.4	49.21	413	3.2876	132	0	0	0	545
1/2" GRC or IMC Cut & Thread	36	Each	0.21	7.6	49.21	374	0	0	0	0	0	374
3/4" GRC or IMC Cut & Thread	41	Each	0.25	10.3	49.21	507	0	0	0	0	0	507
1/2" x 6" GRC Conduit Nipple	2	Each	0.25	0.5	49.21	25	1.56	3	0	0	0	28
3/4" PVC Schedule 40-80 Female Adaptor	40	Each	0.16	6.4	49.21	315	0.576	23	0	0	0	338
1/2" Flexible Conduit Connector Steel Squeeze Style - Straight	161	Each	0.12	19.3	49.21	950	1.172	189	0	0	0	1,139
1/2" Flexible Conduit Connector Steel Squeeze Style - 90 Degree	141	Each	0.15	21.2	49.21	1,043	1.56	220	0	0	0	1,263
1/2" Straight Sealite Connector Die Cast Non Insulated Throat	48	Each	0.12	5.8	49.21	285	1.2065	58	0	0	0	343
3/4" Straight Sealite Connector Die Cast Non Insulated Throat	2	Each	0.15	0.3	49.21	15	1.7229	3	0	0	0	18
1" Straight Sealite Connector Die Cast Non Insulated Throat	4	Each	0.2	0.8	49.21	39	3.22	13	0	0	0	52
1/2" 90 Degree Sealite Connector Die Cast Non Insulated Throat	48	Each	0.15	7.2	49.21	354	2.1726	104	0	0	0	458
3/4" 90 Degree Sealite Connector Die Cast Non Insulated Throat	2	Each	0.18	0.4	49.21	20	3.2869	7	0	0	0	27
1" 90 Degree Sealite Connector Die Cast Non Insulated Throat	4	Each	0.25	1.0	49.21	49	7.33	29	0	0	0	78
1/2" RGS Conduit Hanger w/Bolt	46	Each	0.25	11.5	49.21	566	0.16	7	0	0	0	573
3/4" RGS Conduit Hanger w/Bolt	3	Each	0.25	0.8	49.21	39	0.18	1	0	0	0	40
1/2" RGS Unistrut Conduit Clamp	38	Each	0.03	1.1	49.21	54	0.65	25	0	0	0	79
3/4" RGS Unistrut Conduit Clamp	30	Each	0.03	0.9	49.21	44	0.676	20	0	0	0	64
1" RGS Unistrut Conduit Clamp	3	Each	0.03	0.1	49.21	5	0.78	2	0	0	0	7
1/2" Conduit to 1/8" Steel Beam Flange Mounted Parallel Clip	92	Each	0.01	0.9	49.21	44	0.56	52	0	0	0	96
3/4" Conduit to 1/8" Steel Beam Flange Mounted Parallel Clip	13	Each	0.01	0.1	49.21	5	0.56	7	0	0	0	12
1" Conduit to 1/8" Steel Beam Flange Mounted Parallel Clip	15	Each	0.01	0.2	49.21	10	0.68	10	0	0	0	20
1/2" Conduit to 1/8" Steel Beam Flange Mounted Right Angle Clip & 1 Switch	276	Each	0.01	2.8	49.21	138	0.7	193	0	0	0	331
3/4" Conduit to 1/8" Steel Beam Flange Mounted Right Angle Clip	40	Each	0.01	0.4	49.21	20	0.7	28	0	0	0	48
1" Conduit to 1/8" Steel Beam Flange Mounted Right Angle Clip & One Switch	46	Each	0.01	0.5	49.21	25	0.83	38	0	0	0	63
Unistrut (Deep)	4	Lin Ft	0.08	0.3	49.21	15	4.13	17	0	0	0	32
#12 THHN Stranded Copper Wire	16,718	Lin Ft	0.006	100.3	49.21	4,936	0.08	1,337	0	0	0	6,273

EST NUMBER: WEB16000
 RUN DATE.: 08/05/09 08:49am
 DATA DATE.: SEPT 2009

ELECTRICAL ESTIMATE
 ANYTOWN, ANYWHERE
 ESTIMATE DETAIL - ELECTRICAL SYSTEMS

PREPARED FOR: ALL OF OUR CLIENTS
 PREPARED BY.: TEMPEST COMPANY
 PAGE: 38

DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
#10 THHN Stranded Copper Wire	7,365	Lin Ft	0.0075	55.2	49.21	2,716	0.07	516	0	0	0	0	3,232
#8 THHN Stranded Copper Wire	1,814	Lin Ft	0.01	18.1	49.21	891	0.21	381	0	0	0	0	1,272
#6 THHN Stranded Copper Wire	845	Lin Ft	0.012	10.1	49.21	497	0.34	287	0	0	0	0	784
Red Wing Nut	489	Each	0	0.0	0	0	0.06959	34	0	0	0	0	34
4" Square x 1-1/2" Deep Box 1/2" & 3/4" Knockouts	64	Each	0.3	19.2	49.21	945	0.572	37	0	0	0	0	982
4" Square x 2-1/8" Deep Box with 1/2" & 3/4" Knockouts	10	Each	0.3	3.0	49.21	148	1.371	14	0	0	0	0	162
4" Square Flat Blank Cover	30	Each	0.08	2.4	49.21	118	0.426	13	0	0	0	0	131
4" Square Industrial Raised Cover for 1 Toggle Switch	44	Each	0.12	5.3	49.21	261	2.41	106	0	0	0	0	367
4-11/16" Square x 1-1/2" Deep Box with 1/2" & 3/4" Knockouts & One Switch	2	Each	0.3	0.6	49.21	30	2.38	5	0	0	0	0	35
4-11/16" Square Blank Cover	2	Each	0.08	0.2	49.21	10	1.62	3	0	0	0	0	13
1 Gang Masonry Box 3-1/2" Deep	3	Each	0.35	1.1	49.21	54	2.65	8	0	0	0	0	62
8" x 8" x 4" Screw Cover Pull Box Nema 1	1	Each	1.2	1.2	49.21	59	14.21	14	0	0	0	0	73
20 Amp 120-277 Volt 1 Gang Wall Switch Plate Ivory Plastic	44	Each	0.25	11.0	49.21	541	1.68	74	0	0	0	0	615
1 Gang Blank Wall Plate Stainless Steel 430	3	Each	0.1	0.3	49.21	15	0.92	3	0	0	0	0	18
Fractional Horsepower Motor Connection Single Phase 120 Volt	8	Each	0.75	6.0	49.21	295	8.16	65	0	0	0	0	360
1-1/2 Horsepower Motor Connection Three Phase 480 Volt	1	Each	1.4	1.4	49.21	69	9.88	10	0	0	0	0	79
Connect 20 Amp Equipment	26	Each	1	26.0	49.21	1,279	5	130	0	0	0	0	1,409
Connect 30 Amp Equipment	20	Each	2	40.0	49.21	1,968	7.5	150	0	0	0	0	2,118
Connect 60 Amp Equipment	5	Each	4	20.0	49.21	984	12.5	63	0	0	0	0	1,047
Damper Single Phase 120 Volt Motor Connection	44	Each	0.75	33.0	49.21	1,624	1.14	50	0	0	0	0	1,674
#14-12-10 Wire Termination Labor	489	Lin Ft	0.18	88.0	49.21	4,330	0	0	0	0	0	0	4,330
Berko FRC-3027 Wall Heater	3	Each	2	6.0	49.21	295	271.62	815	0	0	0	0	1,110
Berko HUHA A-527 Unit Heater	1	Each	3	3.0	49.21	148	267.88	268	0	0	0	0	416
Berko HUHA ADS-25 Unit Heater Disconnect	1	Each	0.25	0.3	49.21	15	199.75	200	0	0	0	0	215
Berko HUHA AMT-1 Unit Heater Thermostat	1	Each	0.5	0.5	49.21	25	44.41	44	0	0	0	0	69
Emergency Circuit Terminal Block for RTU Unit	6	Each	2	12.0	49.21	591	50	300	0	0	0	0	891
*** EQUIPMENT WIRING ESTIMATED COST ***				972.2		47,840		9,792		0		0	57,632

DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN HOURS UNIT	LABOR DOLLARS TOTAL	LABOR DOLLARS UNIT	MATERIAL DOLLARS TOTAL	MATERIAL DOLLARS UNIT	EQUIPMENT DOLLARS TOTAL	EQUIPMENT DOLLARS UNIT	SUBCONTRACT DOLLARS TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL DOLLARS
LIGHTING FIXTURES AND LAMPS												
32W-T8 SP35 for Type A	252	Each	0	0.0	49.21	0	Quote	0	0	0	0	0
32W-T8 SP35 for Type B	294	Each	0	0.0	49.21	0	Quote	0	0	0	0	0
32W-TRT SP35 for Type D	30	Each	0	0.0	49.21	0	Quote	0	0	0	0	0
175W Metal Halide for Type F	26	Each	0	0.0	49.21	0	Quote	0	0	0	0	0
32W-T8 48" RS-SP35 for Type G	48	Each	0	0.0	49.21	0	Quote	0	0	0	0	0
32W-T8 48" RS-SP35 for Type J	426	Each	0	0.0	49.21	0	Quote	0	0	0	0	0
32W-T8 48" RS-SP35 for Type K	268	Each	0	0.0	49.21	0	Quote	0	0	0	0	0
32W TRT SP35 for Type L	9	Each	0	0.0	49.21	0	Quote	0	0	0	0	0
32W-T8 48" RS-SP35 for Type N	33	Each	0	0.0	49.21	0	Quote	0	0	0	0	0
175W Metal Halide for Type F1	4	Each	0	0.0	49.21	0	Quote	0	0	0	0	0
175W Metal Halide for Type P	2	Each	0	0.0	49.21	0	Quote	0	0	0	0	0
150W High Pressure Sodium for Type WA	7	Each	0	0.0	49.21	0	Quote	0	0	0	0	0
250W High Pressure Sodium for Type WB	5	Each	0	0.0	49.21	0	Quote	0	0	0	0	0
32W-T8 48" RS-SP35 for Type R	20	Each	0	0.0	49.21	0	Quote	0	0	0	0	0
150W High Pressure Sodium for Type W	2	Each	0	0.0	49.21	0	Quote	0	0	0	0	0
32W-T8 48" RS-SP35 for Type N1	18	Each	0	0.0	49.21	0	Quote	0	0	0	0	0
32W-T8 48" RS-SP35 for Type V	30	Each	0	0.0	49.21	0	Quote	0	0	0	0	0
100W A19	40	Each	0	0.0	49.21	0	Quote	0	0	0	0	0
32W-T8 48" RS-SP35 for Type M	10	Each	0	0.0	49.21	0	Quote	0	0	0	0	0
32W-T8 48" RS-SP35 for Type H	44	Each	0	0.0	49.21	0	Quote	0	0	0	0	0
Type A Maximum Security Cell Fixture	68	Each	2.25	153.0	49.21	7,529	Quote	0	0	0	0	7,529
Type B 2' x 4' Static Spec Troffer 3 Lamp - 277 Volt	98	Each	0.98	96.0	49.21	4,724	Quote	0	0	0	0	4,724
Type C Maximum Security Cell Fixture	16	Each	2.25	36.0	49.21	1,772	Quote	0	0	0	0	1,772
Type D Surface Mounted Shower Light 15" Diameter	15	Each	1.25	18.8	49.21	925	Quote	0	0	0	0	925
Type F Recessed High Abuse Fixture	26	Each	1.75	45.5	49.21	2,239	Quote	0	0	0	0	2,239
Type G 1' x 4' Static Spec Troffer 2 Lamp - 277 Volt	24	Each	0.89	21.4	49.21	1,053	Quote	0	0	0	0	1,053
Type H 4' Vaportite Fixture 2 Lamp - 277 Volt	16	Each	1.25	20.0	49.21	984	Quote	0	0	0	0	984

DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
Type J 1' x 4' Static Spec Troffer 3 Lamp - 277 Volt	142	Each	0.98	139.2	49.21	6,850	Quote	0	0	0	0	0	6,850
Type K 2' x 4' Static GT Troffer 4 Lamp - 277 Volt	67	Each	1.05	70.4	49.21	3,464	Quote	0	0	0	0	0	3,464
Type L Compact Fluorescent Dry 1 Lamp Down-Light - 8" / 277 Volt	9	Each	1.05	9.5	49.21	467	Quote	0	0	0	0	0	467
Type M 4' Single Wall Bracket Fluorescent 2 Lamp - 277 Volt	5	Each	0.77	3.9	49.21	192	Quote	0	0	0	0	0	192
Type N 2' x 4' Static Spec Troffer 3 Lamp - 277 Volt	11	Each	0.98	10.8	49.21	531	Quote	0	0	0	0	0	531
Type P 32" Round Chandelier	2	Each	2.5	5.0	49.21	246	Quote	0	0	0	0	0	246
Type R 4' Spec Grade Strip 2 Lamp - 277 Volt	10	Each	0.77	7.7	49.21	379	Quote	0	0	0	0	0	379
Type U Incandescent Lampholder w/Glass Globe & Guard	40	Each	0.75	30.0	49.21	1,476	Quote	0	0	0	0	0	1,476
Type V 4' Industrial Fluorescent 2 Lamp - 277 Volt	15	Each	0.82	12.3	49.21	605	Quote	0	0	0	0	0	605
Type W H.I.D. Surface Mounted Square Fixture	2	Each	1.25	2.5	49.21	123	Quote	0	0	0	0	0	123
Type E1 Single Face Surface Ceiling LED Exit Fixture	6	Each	0.75	4.5	49.21	221	Quote	0	0	0	0	0	221
Type E2 Dual Face Surface Ceiling LED Exit Fixture	27	Each	0.75	20.3	49.21	999	Quote	0	0	0	0	0	999
Type F1 Recessed High Abuse Fixture w/Restrike	4	Each	1.75	7.0	49.21	344	Quote	0	0	0	0	0	344
Type N1 2' x 4' Troffer 2 Ballasts 3 Lamp - 277 Volt	6	Each	0.98	5.9	49.21	290	Quote	0	0	0	0	0	290
Type WA H.I.D. Wall Pack Fixture 35-175W	7	Each	1.25	8.8	49.21	433	Quote	0	0	0	0	0	433
Type WB H.I.D. Wall Pack Fixture 250-400W	5	Each	1.5	7.5	49.21	369	Quote	0	0	0	0	0	369
Type HNL 4' Vaportite Fixture 2 Lamp - 277 Volt	6	Each	1.25	7.5	49.21	369	Quote	0	0	0	0	0	369
*** LIGHTING FIXTURES AND LAMPS ESTIMATED COST ***				743.5		36,584		0		0		0	36,584
BRANCH LIGHTING SYSTEM													
1/2" Electrical Metallic Tubing	6,645	Lin Ft	0.045	299.0	49.21	14,714	0.2	1,329	0	0	0	0	16,043
3/4" Electrical Metallic Tubing	4,970	Lin Ft	0.05	248.5	49.21	12,229	0.38	1,889	0	0	0	0	14,118
1" Electrical Metallic Tubing	230	Lin Ft	0.055	12.7	49.21	625	0.64	147	0	0	0	0	772
1/2" Galvanized Rigid Steel Conduit Neca Normal Column	165	Lin Ft	0.05	8.3	49.21	408	1.1	182	0	0	0	0	590
3/4" Galvanized Rigid Steel Conduit Neca Normal Column	2,337	Lin Ft	0.06	140.2	49.21	6,899	1.57	3,669	0	0	0	0	10,568
1" Galvanized Rigid Steel Conduit Neca Normal Column	70	Lin Ft	0.07	4.9	49.21	241	2.49	174	0	0	0	0	415
1/2" Steel Flexible Conduit	588	Lin Ft	0.04	23.5	49.21	1,156	0.25	147	0	0	0	0	1,303
1/2" EMT Set Screw Steel Coupling	667	Each	0	0.0	0	0	0.45	300	0	0	0	0	300
3/4" EMT Set Screw Steel Coupling	595	Each	0	0.0	0	0	0.881	524	0	0	0	0	524

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ELECTRICAL ESTIMATE
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PREPARED FOR: ALL OF OUR CLIENTS
 PREPARED BY.: TEMPEST COMPANY
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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN HOURS UNIT	LABOR DOLLARS TOTAL	LABOR DOLLARS UNIT	MATERIAL DOLLARS TOTAL	MATERIAL DOLLARS UNIT	EQUIPMENT DOLLARS UNIT	EQUIPMENT DOLLARS TOTAL	SUBCONTRACT DOLLARS UNIT	SUBCONTRACT DOLLARS TOTAL	TOTAL DOLLARS
1" EMT Set Screw Steel Coupling	25	Each	0	0.0	0	0	0.81	20	0	0	0	20
1/2" EMT Set Screw Steel Connector Non Insulated Throat	788	Each	0.08	63.0	49.21	3,100	0.351	277	0	0	0	3,377
3/4" EMT Set Screw Steel Connector Non Insulated Throat	138	Each	0.1	13.8	49.21	679	0.587	81	0	0	0	760
1" EMT Set Screw Steel Connector Non Insulated Throat	2	Each	0.12	0.2	49.21	10	0.67	1	0	0	0	11
1/2" GRC 3-Piece Coupling (Erickson)	7	Each	0.6	4.2	49.21	207	1.82	13	0	0	0	220
3/4" GRC 3-Piece Coupling (Erickson)	82	Each	0.7	57.4	49.21	2,825	2.9552	242	0	0	0	3,067
1" GRC 3-Piece Coupling (Erickson)	1	Each	0.8	0.8	49.21	39	4.54	5	0	0	0	44
1/2" Locknut	32	Each	0.1	3.2	49.21	157	0.09	3	0	0	0	160
3/4" Locknut	752	Each	0.12	90.2	49.21	4,439	0.165	124	0	0	0	4,563
1" Locknut	8	Each	0.14	1.1	49.21	54	0.3625	3	0	0	0	57
1/2" Plastic Bushing	2	Each	0.1	0.2	49.21	10	0.09	1	0	0	0	11
3/4" Plastic Bushing	140	Each	0.12	16.8	49.21	827	0.1556	22	0	0	0	849
1" Plastic Bushing	2	Each	0.14	0.3	49.21	15	0.2553	1	0	0	0	16
1/2" Steel Grounding Bushing Insulated	14	Each	0.2	2.8	49.21	138	2.8	39	0	0	0	177
3/4" Steel Grounding Bushing Insulated	236	Each	0.21	49.6	49.21	2,441	3.2876	776	0	0	0	3,217
1" Steel Grounding Bushing Insulated	2	Each	0.22	0.4	49.21	20	3.74	7	0	0	0	27
1/2" GRC or IMC Cut & Thread	7	Each	0.21	1.5	49.21	74	0	0	0	0	0	74
3/4" GRC or IMC Cut & Thread	118	Each	0.25	29.5	49.21	1,452	0	0	0	0	0	1,452
1" GRC or IMC Cut & Thread	1	Each	0.32	0.3	49.21	15	0	0	0	0	0	15
1/2" Flexible Conduit Connector Steel Squeeze Style - Straight	196	Each	0.12	23.5	49.21	1,156	1.172	230	0	0	0	1,386
1/2" EMT Conduit Hanger w/Bolt	168	Each	0.25	42.0	49.21	2,067	0.16	27	0	0	0	2,094
1/2" RGS Conduit Hanger w/Bolt	18	Each	0.25	4.5	49.21	221	0.16	3	0	0	0	224
3/4" RGS Conduit Hanger w/Bolt	136	Each	0.25	34.0	49.21	1,673	0.18	24	0	0	0	1,697
1" RGS Conduit Hanger w/Bolt	6	Each	0.25	1.5	49.21	74	0.21	1	0	0	0	75
1/2" RGS Unistrut Conduit Clamp	2	Each	0.03	0.1	49.21	5	0.65	1	0	0	0	6
3/4" RGS Unistrut Conduit Clamp	56	Each	0.03	1.7	49.21	84	0.676	38	0	0	0	122
1" RGS Unistrut Conduit Clamp	2	Each	0.03	0.1	49.21	5	0.78	2	0	0	0	7
1/2" T-Bar Wire Conduit Clip	404	Each	0.01	4.0	49.21	197	0.193	78	0	0	0	275

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ELECTRICAL ESTIMATE
 ANYTOWN, ANYWHERE
 ESTIMATE DETAIL - ELECTRICAL SYSTEMS

PREPARED FOR: ALL OF OUR CLIENTS
 PREPARED BY.: TEMPEST COMPANY
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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN HOURS UNIT	LABOR MAN HOURS TOTAL	LABOR DOLLARS UNIT	LABOR DOLLARS TOTAL	MATERIAL DOLLARS UNIT	MATERIAL DOLLARS TOTAL	EQUIPMENT DOLLARS UNIT	EQUIPMENT DOLLARS TOTAL	SUBCONTRACT DOLLARS UNIT	SUBCONTRACT DOLLARS TOTAL	TOTAL DOLLARS
3/4" T-Bar Wire Conduit Clip	344	Each	0.01	3.4	49.21	167	0.21	72	0	0	0	0	239
1" T-Bar Wire Conduit Clip	31	Each	0.01	0.3	49.21	15	0.25	8	0	0	0	0	23
1/2" Conduit to 1/8" Steel Beam Flange Mounted Parallel Clip	66	Each	0.01	0.7	49.21	34	0.56	37	0	0	0	0	71
3/4" Conduit to 1/8" Steel Beam Flange Mounted Parallel Clip	100	Each	0.01	1.0	49.21	49	0.56	56	0	0	0	0	105
1/2" Conduit to 1/8" Steel Beam Flange Mounted Right Angle Clip & 1 Switch	196	Each	0.01	2.0	49.21	98	0.7	137	0	0	0	0	235
3/4" Conduit to 1/8" Steel Beam Flange Mounted Right Angle Clip	300	Each	0.01	3.0	49.21	148	0.7	210	0	0	0	0	358
1/8" Flange Clip for Wire & S Hooks	779	Each	0.01	7.8	49.21	384	0.277	216	0	0	0	0	600
#12 x 12' Ceiling Wire	530	Each	0.04	21.2	49.21	1,043	2.46	1,304	0	0	0	0	2,347
#12 THHN Stranded Copper Wire	68,526	Lin Ft	0.006	411.2	49.21	20,235	0.08	5,482	0	0	0	0	25,717
#10 THHN Stranded Copper Wire	11,734	Lin Ft	0.0075	88.0	49.21	4,330	0.07	821	0	0	0	0	5,151
#18 TFFN Stranded Copper Wire	1,568	Lin Ft	0.01	15.7	49.21	773	0.04	63	0	0	0	0	836
Red Wing Nut	1,881	Each	0	0.0	0	0	0.06959	131	0	0	0	0	131
Yellow Wing Nut	1,881	Each	0	0.0	0	0	0.053	100	0	0	0	0	100
6' Fixture Whip - Single Circuit	529	Each	0.1	52.9	49.21	2,603	3.03	1,603	0	0	0	0	4,206
4" Square x 1-1/2" Deep Box 1/2" & 3/4" Knockouts	632	Each	0.3	189.6	49.21	9,330	0.572	362	0	0	0	0	9,692
4" Square Flat Blank Cover	632	Each	0.08	50.6	49.21	2,490	0.426	269	0	0	0	0	2,759
4-11/16" Square x 1-1/2" Deep Box with 1/2" & 3/4" Knockouts & One Switch	15	Each	0.3	4.5	49.21	221	2.38	36	0	0	0	0	257
4-11/16" Square Blank Cover	15	Each	0.08	1.2	49.21	59	1.62	24	0	0	0	0	83
1 Gang Aluminum Bell Box Weatherproof w/(3) 3/4" Hubs	2	Each	0.85	1.7	49.21	84	4.35	9	0	0	0	0	93
1 Gang Masonry Box 2-1/2" Deep	65	Each	0.35	22.8	49.21	1,122	3.1	202	0	0	0	0	1,324
1 Gang Masonry Box 3-1/2" Deep	51	Each	0.35	17.9	49.21	881	2.65	135	0	0	0	0	1,016
2 Gang Masonry Box 3-1/2" Deep	7	Each	0.37	2.6	49.21	128	4.483	31	0	0	0	0	159
3-Way Wall Toggle Switch Ivory Specification Grade 20 Amp 120 - 277 Volt	17	Each	0.4	6.8	49.21	335	2.59	44	0	0	0	0	379
4-Way Wall Toggle Switch Ivory Specification Grade 20 Amp 120 - 277 Volt	2	Each	0.45	0.9	49.21	44	12.27	25	0	0	0	0	69
Single Pole Wall Toggle Switch Pilot Light (Lighted When On) Premium Specification Grade 20 Amp 120 - 277 Volt	2	Each	0.31	0.6	49.21	30	17.61	35	0	0	0	0	65
Single Pole Wall Toggle Switch Ivory Specification Grade 20 Amp 120 - 277 Volt	68	Each	0.25	17.0	49.21	837	1.69	115	0	0	0	0	952

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ELECTRICAL ESTIMATE
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 ESTIMATE DETAIL - ELECTRICAL SYSTEMS

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
1 Gang Toggle Wall Switch Plate Ivory Plastic	107	Each	0.1	10.7	49.21	527	0.19	20	0	0	0	0	547
2 Gang Toggle Wall Switch Plate Ivory Plastic	7	Each	0.12	0.8	49.21	39	0.45	3	0	0	0	0	42
1 Gang Aluminum Blank Plate Weatherproof	2	Each	0.2	0.4	49.21	20	0.84	2	0	0	0	0	22
Hubbell WSS1200 Occupancy Switch	41	Each	0.3	12.3	49.21	605	51.48	2,111	0	0	0	0	2,716
SPST 30 Amp 120 Volt Electric Time Switch	2	Each	1.65	3.3	49.21	162	51.65	103	0	0	0	0	265
Photo-cell (AT15)	2	Each	0.75	1.5	49.21	74	9.14	18	0	0	0	0	92
*** BRANCH LIGHTING SYSTEM ESTIMATED COST ***				2,136.2		105,123		24,164		0		0	129,287

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ELECTRICAL ESTIMATE
ANYTOWN, ANYWHERE
EMERGENCY POWER SYSTEMS SUMMARY - ELECTRICAL SYSTEMS

PREPARED FOR: ALL OF OUR CLIENTS
PREPARED BY.: TEMPEST COMPANY
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DESCRIPTION	LABOR MANHOURS	LABOR DOLLARS	MATERIAL DOLLARS	EQUIPMENT DOLLARS	SUBCONTRACT DOLLARS	TOTAL DOLLARS
EMERGENCY GENERATOR AND FEEDER SYSTEM	44.8	2,208	645	0	0	2,853
*** EMERGENCY POWER SYSTEMS ESTIMATED COST ***	44.8	2,208	645	0	0	2,853

DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN HOURS UNIT	LABOR DOLLARS TOTAL	LABOR DOLLARS UNIT	MATERIAL DOLLARS TOTAL	MATERIAL DOLLARS UNIT	EQUIPMENT DOLLARS TOTAL	EQUIPMENT DOLLARS UNIT	SUBCONTRACT DOLLARS TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL DOLLARS
EMERGENCY GENERATOR AND FEEDER SYSTEM												
3/4" Galvanized Rigid Steel Conduit Neca Normal Column	10	Lin Ft	0.06	0.6	49.21	30	1.57	16	0	0	0	46
2" Galvanized Rigid Steel Conduit Neca Normal Column	5	Lin Ft	0.11	0.6	49.21	30	5.02	25	0	0	0	55
3/4" Poly Vinyl Chloride Conduit Schedule 40 Under Slab	270	Lin Ft	0.03	8.1	49.21	399	0.17	46	0	0	0	445
2" Poly Vinyl Chloride Conduit Schedule 40 In Trench	25	Lin Ft	0.04	1.0	49.21	49	0.54	14	0	0	0	63
3/4" GRC or IMC Coupling	2	Each	0	0.0	0	0	1.072	2	0	0	0	2
2" GRC or IMC Coupling	1	Each	0	0.0	0	0	3.2863	3	0	0	0	3
3/4" GRC 90 Degree Elbow Standard Radius	2	Each	0.4	0.8	49.21	39	3.7623	8	0	0	0	47
2" GRC 90 Degree Elbow Standard Radius	2	Each	1	2.0	49.21	98	15.1131	30	0	0	0	128
3/4" Locknut	4	Each	0.12	0.5	49.21	25	0.165	1	0	0	0	26
2" Locknut	2	Each	0.27	0.5	49.21	25	0.8663	2	0	0	0	27
3/4" Die Cast Grounding Bushing Insulated	2	Each	0.21	0.4	49.21	20	2.0969	4	0	0	0	24
2" Die Cast Grounding Bushing Insulated	1	Each	0.46	0.5	49.21	25	3.99	4	0	0	0	29
3/4" GRC or IMC Cut & Thread	2	Each	0.25	0.5	49.21	25	0	0	0	0	0	25
2" GRC or IMC Cut & Thread	1	Each	0.63	0.6	49.21	30	0	0	0	0	0	30
3/4" PVC Schedule 40-80 Female Adaptor	2	Each	0.16	0.3	49.21	15	0.576	1	0	0	0	16
2" PVC Schedule 40-80 Female Adaptor	3	Each	0.3	0.9	49.21	44	1.54	5	0	0	0	49
2" PVC Schedule 40-80 Bell End	1	Each	0.23	0.2	49.21	10	3.78	4	0	0	0	14
3/4" RGS Unistrut Conduit Clamp	2	Each	0.03	0.1	49.21	5	0.676	1	0	0	0	6
2" RGS Unistrut Conduit Clamp	1	Each	0.04	0.1	49.21	5	1.1245	1	0	0	0	6
Unistrut (Deep)	1	Lin Ft	0.08	0.1	49.21	5	4.13	4	0	0	0	9
#12 THHN Stranded Copper Wire	1,701	Lin Ft	0.006	10.2	49.21	502	0.08	136	0	0	0	638
#4 THHN Stranded Copper Wire	40	Lin Ft	0.014	0.6	49.21	30	0.49	20	0	0	0	50
#3/0 THHN Stranded Copper Wire	160	Lin Ft	0.02	3.2	49.21	157	1.99	318	0	0	0	475
225 Amp Automatic Transfer Switch 3 Pole 480 Volt	1	Each	9	9.0	49.21	443	0	0	0	0	0	443
Remote Generator Annunciator	1	Each	4	4.0	49.21	197	Quote	0	0	0	0	197
*** EMERGENCY GENERATOR AND FEEDER SYSTEM ESTIMATED COST ***				44.8		2,208		645		0		2,853

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COMMUNICATIONS SYSTEMS SUMMARY - ELECTRICAL SYSTEMS

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DESCRIPTION	LABOR MANHOURS	LABOR DOLLARS	MATERIAL DOLLARS	EQUIPMENT DOLLARS	SUBCONTRACT DOLLARS	TOTAL DOLLARS
CABLE TRAY SYSTEM	185.7	9,140	512	0	0	9,652
SECURITY SYSTEM	4,799.8	236,198	33,389	0	0	269,587
FIRE ALARM SYSTEM	728.8	35,865	6,299	0	0	42,164
VOICE - DATA SYSTEM	436.0	21,456	4,226	0	0	25,682
CATV SYSTEM	68.3	3,362	1,021	0	0	4,383
*** COMMUNICATIONS SYSTEMS ESTIMATED COST ***	6,218.6	306,021	45,447	0	0	351,468

DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN HOURS UNIT	LABOR DOLLARS TOTAL	LABOR DOLLARS UNIT	MATERIAL DOLLARS TOTAL	MATERIAL DOLLARS UNIT	EQUIPMENT DOLLARS TOTAL	EQUIPMENT DOLLARS UNIT	SUBCONTRACT DOLLARS TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL DOLLARS
CABLE TRAY SYSTEM												
3/8" 16 Steel Hex Nut	180	Each	0.09	16.2	49.21	797	0.06	11	0	0	0	808
3/8" Flat Washer	120	Each	0	0.0	0	0	0.03	4	0	0	0	4
3/8" Lock Washer	120	Each	0	0.0	49.21	0	0.02	2	0	0	0	2
3/8" Beam Clamp	60	Each	0.4	24.0	49.21	1,181	4.18	251	0	0	0	1,432
Unistrut (Deep)	30	Lin Ft	0.08	2.4	49.21	118	4.13	124	0	0	0	242
Cut 12 Gauge 1-5/8 x 1-5/8 Channel (labor)	30	Each	0.31	9.3	49.21	458	0	0	0	0	0	458
3/8" All Thread - Lineal Foot	240	Lin Ft	0.27	64.8	49.21	3,189	0.5	120	0	0	0	3,309
Steel Cable Tray-Mesh Type 9" Wide Drop Out	1	Each	0.5	0.5	49.21	25	Quote	0	0	0	0	25
Steel Cable Tray-Mesh Type 9" Tee	1	Each	3	3.0	49.21	148	Quote	0	0	0	0	148
Steel Cable Tray-Mesh Type 4" Deep x 9" Wide	300	Lin Ft	0.12	36.0	49.21	1,772	Quote	0	0	0	0	1,772
Cable Tray End Plates - 9" Wide	2	Each	0.74	1.5	49.21	74	Quote	0	0	0	0	74
Cable Tray Wall Penetration - DT E-9	7	Each	4	28.0	49.21	1,378	Quote	0	0	0	0	1,378
*** CABLE TRAY SYSTEM ESTIMATED COST ***				185.7		9,140		512		0		9,652
SECURITY SYSTEM												
1/2" Electrical Metallic Tubing	15,181	Lin Ft	0.045	683.1	49.21	33,615	0.2	3,036	0	0	0	36,651
3/4" Electrical Metallic Tubing	7,760	Lin Ft	0.05	388.0	49.21	19,093	0.38	2,949	0	0	0	22,042
1" Electrical Metallic Tubing	50	Lin Ft	0.055	2.8	49.21	138	0.64	32	0	0	0	170
2" Electrical Metallic Tubing	100	Lin Ft	0.08	8.0	49.21	394	3.29	329	0	0	0	723
1/2" Galvanized Rigid Steel Conduit Neca Normal Column	2,080	Lin Ft	0.05	104.0	49.21	5,118	1.1	2,288	0	0	0	7,406
3/4" Galvanized Rigid Steel Conduit Neca Normal Column	1,460	Lin Ft	0.06	87.6	49.21	4,311	1.57	2,292	0	0	0	6,603
1/2" Steel Flexible Conduit	240	Lin Ft	0.04	9.6	49.21	472	0.25	60	0	0	0	532
1/2" EMT Set Screw Steel Coupling	1,726	Each	0	0.0	0	0	0.45	777	0	0	0	777
3/4" EMT Set Screw Steel Coupling	895	Each	0	0.0	0	0	0.881	788	0	0	0	788
1" EMT Set Screw Steel Coupling	5	Each	0	0.0	0	0	0.81	4	0	0	0	4
2" EMT Set Screw Steel Coupling	10	Each	0	0.0	0	0	3.14	31	0	0	0	31
1/2" EMT Set Screw Steel Connector Non Insulated Throat	456	Each	0.08	36.5	49.21	1,796	0.351	160	0	0	0	1,956
3/4" EMT Set Screw Steel Connector Non Insulated Throat	141	Each	0.1	14.1	49.21	694	0.587	83	0	0	0	777

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 ESTIMATE DETAIL - ELECTRICAL SYSTEMS

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN HOURS UNIT	LABOR DOLLARS TOTAL	LABOR DOLLARS UNIT	MATERIAL DOLLARS TOTAL	MATERIAL DOLLARS UNIT	EQUIPMENT DOLLARS TOTAL	EQUIPMENT DOLLARS UNIT	SUBCONTRACT DOLLARS TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL DOLLARS
1" EMT Set Screw Steel Connector Non Insulated Throat	2	Each	0.12	0.2	49.21	10	0.67	1	0	0	0	11
2" EMT Set Screw Steel Connector Non Insulated Throat	4	Each	0.25	1.0	49.21	49	2.56	10	0	0	0	59
3/4" GRC 3-Piece Coupling (Erickson)	20	Each	0.7	14.0	49.21	689	2.9552	59	0	0	0	748
1/2" Locknut	416	Each	0.1	41.6	49.21	2,047	0.09	37	0	0	0	2,084
3/4" Locknut	318	Each	0.12	38.2	49.21	1,880	0.165	52	0	0	0	1,932
1/2" Plastic Bushing	208	Each	0.1	20.8	49.21	1,024	0.09	19	0	0	0	1,043
3/4" Plastic Bushing	159	Each	0.12	19.1	49.21	940	0.1556	25	0	0	0	965
3/4" GRC or IMC Cut & Thread	20	Each	0.25	5.0	49.21	246	0	0	0	0	0	246
1/2" Flexible Conduit Connector Steel Squeeze Style - Straight	80	Each	0.12	9.6	49.21	472	1.172	94	0	0	0	566
1/2" EMT Unistrut Conduit Clamp	1,993	Each	0.03	59.8	49.21	2,943	0.65	1,295	0	0	0	4,238
3/4" EMT Unistrut Conduit Clamp	1,025	Each	0.03	30.8	49.21	1,516	0.68	697	0	0	0	2,213
1" EMT Unistrut Conduit Clamp	6	Each	0.03	0.2	49.21	10	0.78	5	0	0	0	15
2" EMT Unistrut Conduit Clamp	13	Each	0.04	0.5	49.21	25	1.13	15	0	0	0	40
3/4" RGS Conduit Hanger w/Bolt	34	Each	0.25	8.5	49.21	418	0.18	6	0	0	0	424
1/2" RGS Unistrut Conduit Clamp	208	Each	0.03	6.2	49.21	305	0.65	135	0	0	0	440
3/4" RGS Unistrut Conduit Clamp	119	Each	0.03	3.6	49.21	177	0.676	80	0	0	0	257
Unistrut (Deep)	574	Lin Ft	0.08	45.9	49.21	2,259	4.13	2,371	0	0	0	4,630
#14 THHN Copper Solid Wire	136,899	Lin Ft	0.005	684.5	49.21	33,684	0.06	8,214	0	0	0	41,898
#18 TFFN Stranded Copper Wire	174,083	Lin Ft	0.01	1,740.8	49.21	85,665	0.04	6,963	0	0	0	92,628
Red Wing Nut	81	Each	0	0.0	0	0	0.06959	6	0	0	0	6
Yellow Wing Nut	120	Each	0	0.0	0	0	0.053	6	0	0	0	6
4" Square x 1-1/2" Deep Box 1/2" & 3/4" Knockouts	29	Each	0.3	8.7	49.21	428	0.572	17	0	0	0	445
4" Square to 3" Round Plaster Ring 5/8" Deep	2	Each	0.15	0.3	49.21	15	1.97	4	0	0	0	19
4" Square Flat Blank Cover	27	Each	0.08	2.2	49.21	108	0.426	12	0	0	0	120
1 Gang Masonry Box 3-1/2" Deep	118	Each	0.35	41.3	49.21	2,032	2.65	313	0	0	0	2,345
2 Gang Masonry Box 3-1/2" Deep	26	Each	0.37	9.6	49.21	472	4.483	117	0	0	0	589
T-Bar Box Hanger	2	Each	0.04	0.1	49.21	5	3.31	7	0	0	0	12
18/2 PVC Shielded Sound Cable	10,218	Lin Ft	0.011	112.4	49.21	5,531	Quote	0	0	0	0	5,531

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
Piggyback Coax WP #2815	11,267	Lin Ft	0.015	169.0	49.21	8,316	Quote	0	0	0	0	0	8,316
#20/4 2 Pair Shielded 2 Pair Unshielded	105	Lin Ft	0.014	1.5	49.21	74	Quote	0	0	0	0	0	74
WP #54568 Prox Card Cable	1,428	Lin Ft	0.016	22.8	49.21	1,122	Quote	0	0	0	0	0	1,122
WP #292 #20/2 Shielded Cable	1,491	Lin Ft	0.012	17.9	49.21	881	Quote	0	0	0	0	0	881
WP #360	735	Lin Ft	0.016	11.8	49.21	581	Quote	0	0	0	0	0	581
WP #439	840	Lin Ft	0.011	9.2	49.21	453	Quote	0	0	0	0	0	453
WP #815	2,520	Lin Ft	0.015	37.8	49.21	1,860	Quote	0	0	0	0	0	1,860
WP #54568	3,087	Lin Ft	0.015	46.3	49.21	2,278	Quote	0	0	0	0	0	2,278
Belden #9463	462	Each	0.012	5.5	49.21	271	Quote	0	0	0	0	0	271
WP #358	23,478	Lin Ft	0.01	234.8	49.21	11,555	Quote	0	0	0	0	0	11,555
WP #359	420	Lin Ft	0.011	4.6	49.21	226	Quote	0	0	0	0	0	226
*** SECURITY SYSTEM ESTIMATED COST ***				4,799.8		236,198		33,389		0		0	269,587
FIRE ALARM SYSTEM													
3/4" Electrical Metallic Tubing	1,490	Lin Ft	0.05	74.5	49.21	3,666	0.38	566	0	0	0	0	4,232
1" Electrical Metallic Tubing	495	Lin Ft	0.055	27.2	49.21	1,339	0.64	317	0	0	0	0	1,656
1/2" Galvanized Rigid Steel Conduit Neca Normal Column	330	Lin Ft	0.05	16.5	49.21	812	1.1	363	0	0	0	0	1,175
3/4" Galvanized Rigid Steel Conduit Neca Normal Column	530	Lin Ft	0.06	31.8	49.21	1,565	1.57	832	0	0	0	0	2,397
1/2" Steel Flexible Conduit	265	Lin Ft	0.04	10.6	49.21	522	0.25	66	0	0	0	0	588
3/4" EMT Set Screw Steel Coupling	202	Each	0	0.0	0	0	0.881	178	0	0	0	0	178
1" EMT Set Screw Steel Coupling	50	Each	0	0.0	0	0	0.81	41	0	0	0	0	41
3/4" EMT Set Screw Steel Connector Non Insulated Throat	199	Each	0.1	19.9	49.21	979	0.587	117	0	0	0	0	1,096
1" EMT Set Screw Steel Connector Non Insulated Throat	54	Each	0.12	6.5	49.21	320	0.67	36	0	0	0	0	356
1/2" GRC 3-Piece Coupling (Erickson)	44	Each	0.6	26.4	49.21	1,299	1.82	80	0	0	0	0	1,379
1/2" Locknut	176	Each	0.1	17.6	49.21	866	0.09	16	0	0	0	0	882
3/4" Locknut	212	Each	0.12	25.4	49.21	1,250	0.165	35	0	0	0	0	1,285
3/4" Plastic Bushing	106	Each	0.12	12.7	49.21	625	0.1556	16	0	0	0	0	641
1/2" Steel Grounding Bushing Insulated	88	Each	0.2	17.6	49.21	866	2.8	246	0	0	0	0	1,112
1/2" GRC or IMC Cut & Thread	44	Each	0.21	9.2	49.21	453	0	0	0	0	0	0	453

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
1/2" Flexible Conduit Connector Steel Squeeze Style - 90 Degree	53	Each	0.15	8.0	49.21	394	1.56	83	0	0	0	0	477
1/2" RGS Conduit Hanger w/Bolt	41	Each	0.25	10.3	49.21	507	0.16	7	0	0	0	0	514
3/4" T-Bar Wire Conduit Clip	253	Each	0.01	2.5	49.21	123	0.21	53	0	0	0	0	176
1" T-Bar Wire Conduit Clip	62	Each	0.01	0.6	49.21	30	0.25	16	0	0	0	0	46
1/8" Flange Clip for Wire & S Hooks	314	Each	0.01	3.1	49.21	153	0.277	87	0	0	0	0	240
#12 x 12' Ceiling Wire	436	Each	0.04	17.4	49.21	856	2.46	1,073	0	0	0	0	1,929
#12 THHN Stranded Copper Wire	1,386	Lin Ft	0.006	8.3	49.21	408	0.08	111	0	0	0	0	519
14 2C Fire Alarm Signal Cable - PVC	7,313	Each	0.01	73.1	49.21	3,597	0.16	1,170	0	0	0	0	4,767
18 2C Fire Alarm Init Cable - PVC	3,157	Each	0.01	31.6	49.21	1,555	0.1	316	0	0	0	0	1,871
Fire Alarm Manual Station / Addressable for Addressable System	5	Each	0.4	2.0	49.21	98	Quote	0	0	0	0	0	98
Fire Alarm Duct Detector / Addressable for Addressable System	27	Each	2	54.0	49.21	2,657	Quote	0	0	0	0	0	2,657
Fire Alarm Photoelectric Smoke Detector for Addressable System	13	Each	0.6	7.8	49.21	384	Quote	0	0	0	0	0	384
Fire Alarm Flow Monitor / Addressable for Addressable System	2	Each	0.6	1.2	49.21	59	Quote	0	0	0	0	0	59
Fire Alarm Tamper Monitor / Addressable for Addressable System	1	Each	0.6	0.6	49.21	30	Quote	0	0	0	0	0	30
Fire Alarm Addressable Control Module for Addressable System	23	Each	0.6	13.8	49.21	679	Quote	0	0	0	0	0	679
Fire Alarm Bell 6" for Addressable System	2	Each	0.6	1.2	49.21	59	Quote	0	0	0	0	0	59
Fire Alarm Strobe for Addressable System	7	Each	0.6	4.2	49.21	207	Quote	0	0	0	0	0	207
Fire Alarm Horn - Strobe Unit for Addressable System	13	Each	0.6	7.8	49.21	384	Quote	0	0	0	0	0	384
Fire Alarm Magnetic Door Holder for Addressable System	4	Each	1	4.0	49.21	197	Quote	0	0	0	0	0	197
Fire Alarm Annunciator for Addressable System	2	Each	11	22.0	49.21	1,083	Quote	0	0	0	0	0	1,083
Fire Alarm Control Panel for Addressable System	1	Each	18	18.0	49.21	886	Quote	0	0	0	0	0	886
4" Square x 1-1/2" Deep Box 1/2" & 3/4" Knockouts	133	Each	0.3	39.9	49.21	1,963	0.572	76	0	0	0	0	2,039
4" Square to 3" Round Plaster Ring 5/8" Deep	36	Each	0.15	5.4	49.21	266	1.97	71	0	0	0	0	337
4" Square Flat Blank Cover	97	Each	0.08	7.8	49.21	384	0.426	41	0	0	0	0	425
4-11/16" Square x 1-1/2" Deep Box with 1/2" & 3/4" Knockouts & One Switch	15	Each	0.3	4.5	49.21	221	2.38	36	0	0	0	0	257
4-11/16" Square Blank Cover	15	Each	0.08	1.2	49.21	59	1.62	24	0	0	0	0	83
1 Gang Masonry Box 3-1/2" Deep	82	Each	0.35	28.7	49.21	1,412	2.65	217	0	0	0	0	1,629
2 Gang Masonry Box 3-1/2" Deep	2	Each	0.37	0.7	49.21	34	4.483	9	0	0	0	0	43

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
Fire Alarm Manual Station (K) Addressable	9	Each	0.55	5.0	49.21	246	Quote	0	0	0	0	0	246
Fire Alarm Strobe (VP)	13	Each	0.45	5.9	49.21	290	Quote	0	0	0	0	0	290
Fire Alarm Horn - Strobe Unit (VP)	31	Each	0.7	21.7	49.21	1,068	Quote	0	0	0	0	0	1,068
Fire Alarm Photo Smoke Detector Addressable (VP)	23	Each	0.55	12.7	49.21	625	Quote	0	0	0	0	0	625
Fire Alarm Addressable Relay/Smoke Module	7	Each	0.75	5.3	49.21	261	Quote	0	0	0	0	0	261
Fire Alarm Addressable Zone Module	1	Each	0.75	0.8	49.21	39	Quote	0	0	0	0	0	39
Pull Station Wire Guard	1	Each	0.25	0.3	49.21	15	Quote	0	0	0	0	0	15
Smoke Detector Wire Guard	6	Each	0.25	1.5	49.21	74	Quote	0	0	0	0	0	74
*** FIRE ALARM SYSTEM ESTIMATED COST ***				728.8		35,865		6,299		0		0	42,164
VOICE - DATA SYSTEM													
3/4" Electrical Metallic Tubing	700	Lin Ft	0.05	35.0	49.21	1,722	0.38	266	0	0	0	0	1,988
2" Electrical Metallic Tubing	50	Lin Ft	0.08	4.0	49.21	197	3.29	165	0	0	0	0	362
3/4" Galvanized Rigid Steel Conduit Neca Normal Column	650	Lin Ft	0.06	39.0	49.21	1,919	1.57	1,021	0	0	0	0	2,940
3/4" EMT Set Screw Steel Coupling	70	Each	0	0.0	0	0	0.881	62	0	0	0	0	62
2" EMT Set Screw Steel Coupling	5	Each	0	0.0	0	0	3.14	16	0	0	0	0	16
3/4" EMT Set Screw Steel Connector Non Insulated Throat	40	Each	0.1	4.0	49.21	197	0.587	23	0	0	0	0	220
2" EMT Set Screw Steel Connector Non Insulated Throat	2	Each	0.25	0.5	49.21	25	2.56	5	0	0	0	0	30
3/4" Locknut	130	Each	0.12	15.6	49.21	768	0.165	21	0	0	0	0	789
3/4" Plastic Bushing	130	Each	0.12	15.6	49.21	768	0.1556	20	0	0	0	0	788
2" EMT Unistrut Conduit Clamp	6	Each	0.04	0.2	49.21	10	1.13	7	0	0	0	0	17
3/4" T-Bar Wire Conduit Clip	88	Each	0.01	0.9	49.21	44	0.21	18	0	0	0	0	62
1/8" Flange Clip for Wire & S Hooks	88	Each	0.01	0.9	49.21	44	0.277	24	0	0	0	0	68
Unistrut (Deep)	2	Lin Ft	0.08	0.2	49.21	10	4.13	8	0	0	0	0	18
#12 x 12' Ceiling Wire	44	Each	0.04	1.8	49.21	89	2.46	108	0	0	0	0	197
1 Gang Masonry Box 3-1/2" Deep	65	Each	0.35	22.8	49.21	1,122	2.65	172	0	0	0	0	1,294
Voice Data Plate	35	Each	0.1	3.5	49.21	172	Quote	0	0	0	0	0	172
Tel-Data Contractor Head End Equipment	1	Each	0	0.0	49.21	0	Quote	0	0	0	0	0	0
Telephone Head End Plywood	1	Each	4	4.0	49.21	197	250	250	0	0	0	0	447

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	DOLLARS TOTAL	MATERIAL DOLLARS UNIT	DOLLARS TOTAL	EQUIPMENT DOLLARS UNIT	DOLLARS TOTAL	SUBCONTRACT DOLLARS UNIT	DOLLARS TOTAL	TOTAL DOLLARS
Catagory 5 Cable Plenum	11,996	Lin Ft	0.012	144.0	49.21	7,086	0.085	1,020	0	0	0	0	8,106
22 Gauge - 4 Pair Category V Voice Cable Plenum	11,996	Lin Ft	0.012	144.0	49.21	7,086	0.085	1,020	0	0	0	0	8,106
*** VOICE - DATA SYSTEM ESTIMATED COST ***				436.0		21,456		4,226		0		0	25,682
CATV SYSTEM													
3/4" Electrical Metallic Tubing	300	Lin Ft	0.05	15.0	49.21	738	0.38	114	0	0	0	0	852
3/4" Galvanized Rigid Steel Conduit Neca Normal Column	130	Lin Ft	0.06	7.8	49.21	384	1.57	204	0	0	0	0	588
3/4" EMT Set Screw Steel Coupling	30	Each	0	0.0	0	0	0.881	26	0	0	0	0	26
3/4" EMT Set Screw Steel Connector Non Insulated Throat	14	Each	0.1	1.4	49.21	69	0.587	8	0	0	0	0	77
3/4" Locknut	26	Each	0.12	3.1	49.21	153	0.165	4	0	0	0	0	157
3/4" Plastic Bushing	26	Each	0.12	3.1	49.21	153	0.1556	4	0	0	0	0	157
3/4" T-Bar Wire Conduit Clip	38	Each	0.01	0.4	49.21	20	0.21	8	0	0	0	0	28
1/8" Flange Clip for Wire & S Hooks	38	Each	0.01	0.4	49.21	20	0.277	11	0	0	0	0	31
#12 x 12' Ceiling Wire	19	Each	0.04	0.8	49.21	39	2.46	47	0	0	0	0	86
1 Gang Masonry Box 3-1/2" Deep	13	Each	0.35	4.6	49.21	226	2.65	34	0	0	0	0	260
Wall J-Box for CVR Feed	2	Each	1	2.0	49.21	98	15	30	0	0	0	0	128
CATV Head End Equipment	1	Each	0	0.0	49.21	0	Quote	0	0	0	0	0	0
RG-59 Coaxial Cable Plenum	1,980	Lin Ft	0.015	29.7	49.21	1,462	0.26832	531	0	0	0	0	1,993
*** CATV SYSTEM ESTIMATED COST ***				68.3		3,362		1,021		0		0	4,383

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COMMUNICATIONS SYSTEMS SUMMARY - COMMUNICATIONS SYSTEMS

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DESCRIPTION	LABOR MANHOURS	LABOR DOLLARS	MATERIAL DOLLARS	EQUIPMENT DOLLARS	SUBCONTRACT DOLLARS	TOTAL DOLLARS
ELECTRICAL	256.5	12,622	824	0	0	13,446
SECURITY	1,159.9	57,081	0	0	0	57,081
*** COMMUNICATIONS SYSTEMS ESTIMATED COST ***	1,416.4	69,703	824	0	0	70,527

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DESCRIPTION	LABOR MANHOURS	LABOR DOLLARS	MATERIAL DOLLARS	EQUIPMENT DOLLARS	SUBCONTRACT DOLLARS	TOTAL DOLLARS
COMMUNICATIONS SYSTEMS	256.5	12,622	824	0	0	13,446
*** ELECTRICAL ESTIMATED COST ***	256.5	12,622	824	0	0	13,446

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DESCRIPTION	LABOR MANHOURS	LABOR DOLLARS	MATERIAL DOLLARS	EQUIPMENT DOLLARS	SUBCONTRACT DOLLARS	TOTAL DOLLARS
CABLE TRAY SYSTEM	256.5	12,622	824	0	0	13,446
*** COMMUNICATIONS SYSTEMS ESTIMATED COST ***	256.5	12,622	824	0	0	13,446

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
CABLE TRAY SYSTEM													
3/8" 16 Steel Hex Nut	168	Each	0.09	15.1	49.21	743	0.06	10	0	0	0	0	753
3/8" Flat Washer	112	Each	0	0.0	0	0	0.03	3	0	0	0	0	3
3/8" Lock Washer	112	Each	0	0.0	49.21	0	0.02	2	0	0	0	0	2
3/8" Beam Clamp	56	Each	0.4	22.4	49.21	1,102	4.18	234	0	0	0	0	1,336
Unistrut (Deep)	112	Lin Ft	0.08	9.0	49.21	443	4.13	463	0	0	0	0	906
Cut 12 Gauge 1-5/8 x 1-5/8 Channel (labor)	28	Each	0.31	8.7	49.21	428	0	0	0	0	0	0	428
3/8" All Thread - Lineal Foot	224	Lin Ft	0.27	60.5	49.21	2,977	0.5	112	0	0	0	0	3,089
Cable Tray Wall Penetration - DT E-9	14	Each	4	56.0	49.21	2,756	Quote	0	0	0	0	0	2,756
Steel Cable Tray - Mesh Type 4" Deep x 12" Wide	552	Each	0.15	82.8	49.21	4,075	Quote	0	0	0	0	0	4,075
Cable Tray End Plates - 12" Wide	4	Each	0.5	2.0	49.21	98	Quote	0	0	0	0	0	98
*** CABLE TRAY SYSTEM ESTIMATED COST ***				256.5		12,622		824		0		0	13,446

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SECURITY SUMMARY - COMMUNICATIONS SYSTEMS

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DESCRIPTION	LABOR MANHOURS	LABOR DOLLARS	MATERIAL DOLLARS	EQUIPMENT DOLLARS	SUBCONTRACT DOLLARS	TOTAL DOLLARS
COMMUNICATIONS SYSTEMS	1,159.9	57,081	0	0	0	57,081
*** SECURITY ESTIMATED COST ***	1,159.9	57,081	0	0	0	57,081

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COMMUNICATIONS SYSTEMS SUMMARY - COMMUNICATIONS SYSTEMS

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DESCRIPTION	LABOR MANHOURS	LABOR DOLLARS	MATERIAL DOLLARS	EQUIPMENT DOLLARS	SUBCONTRACT DOLLARS	TOTAL DOLLARS
SECURITY SYSTEM EQUIPMENT	1,159.9	57,081	0	0	0	57,081
*** COMMUNICATIONS SYSTEMS ESTIMATED COST ***	1,159.9	57,081	0	0	0	57,081

DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN HOURS UNIT	LABOR DOLLARS TOTAL	LABOR DOLLARS UNIT	MATERIAL DOLLARS TOTAL	MATERIAL DOLLARS UNIT	EQUIPMENT DOLLARS TOTAL	EQUIPMENT DOLLARS UNIT	SUBCONTRACT DOLLARS TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL DOLLARS
SECURITY SYSTEM EQUIPMENT												
Intercom Station	158	Each	1.2	189.6	49.21	9,330	Quote	0	0	0	0	9,330
Ceiling Paging Speaker	48	Each	0.75	36.0	49.21	1,772	Quote	0	0	0	0	1,772
Paging Horn	2	Each	0.75	1.5	49.21	74	Quote	0	0	0	0	74
Monitor / Control Door	118	Each	1.5	177.0	49.21	8,710	Quote	0	0	0	0	8,710
Monitor / Control Gate	3	Each	1.75	5.3	49.21	261	Quote	0	0	0	0	261
Monitored Door	13	Each	1.3	16.9	49.21	832	Quote	0	0	0	0	832
Duress PB Station	22	Each	0.75	16.5	49.21	812	Quote	0	0	0	0	812
Door Release Push Button	2	Each	0.75	1.5	49.21	74	Quote	0	0	0	0	74
Glass Break Sensor	2	Each	1.25	2.5	49.21	123	Quote	0	0	0	0	123
Exit Push Button	7	Each	0.75	5.3	49.21	261	Quote	0	0	0	0	261
Proximity Card Reader	21	Each	4	84.0	49.21	4,134	Quote	0	0	0	0	4,134
Proximity / Keypad Combination	3	Each	5	15.0	49.21	738	Quote	0	0	0	0	738
Interior Video Camera	55	Each	3.5	192.5	49.21	9,473	Quote	0	0	0	0	9,473
Exterior Video Camera	3	Each	7	21.0	49.21	1,033	Quote	0	0	0	0	1,033
Exterior Pan-Tilt-Zoom Camera	5	Each	10	50.0	49.21	2,461	Quote	0	0	0	0	2,461
Morse Watchman Tour Station	28	Each	1.5	42.0	49.21	2,067	Quote	0	0	0	0	2,067
Morse Watchman Station	3	Each	1.75	5.3	49.21	261	Quote	0	0	0	0	261
Morse Watchman Master Station	1	Each	2.2	2.2	49.21	108	Quote	0	0	0	0	108
Ultrasonic Duress Receiver	26	Each	1.25	32.5	49.21	1,599	Quote	0	0	0	0	1,599
CCTV Keyboard	3	Each	3	9.0	49.21	443	Quote	0	0	0	0	443
Video Monitor	9	Each	2	18.0	49.21	886	Quote	0	0	0	0	886
Commander Touch Screen	3	Each	16	48.0	49.21	2,362	Quote	0	0	0	0	2,362
Informer / Access Computer	1	Each	24	24.0	49.21	1,181	Quote	0	0	0	0	1,181
Talk-Thur Communicator	2	Each	12	24.0	49.21	1,181	Quote	0	0	0	0	1,181
Intercom & Prox Bollard	4	Each	5.7	22.8	49.21	1,122	Quote	0	0	0	0	1,122
Intercom Bollard	5	Each	5.3	26.5	49.21	1,304	Quote	0	0	0	0	1,304
ADA Approved Metal Detector	1	Each	36	36.0	49.21	1,772	Quote	0	0	0	0	1,772

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	DOLLARS TOTAL	MATERIAL DOLLARS UNIT	DOLLARS TOTAL	EQUIPMENT DOLLARS UNIT	DOLLARS TOTAL	SUBCONTRACT DOLLARS UNIT	DOLLARS TOTAL	TOTAL DOLLARS
CCTV Dubbing/Playback Station	1	Each	20	20.0	49.21	984	Quote	0	0	0	0	0	984
TV	3	Each	2	6.0	49.21	295	Quote	0	0	0	0	0	295
Fiber Modem	4	Each	1.25	5.0	49.21	246	Quote	0	0	0	0	0	246
Housing FB Division 17	75	Each	0	0.0	0	0	Quote	0	0	0	0	0	0
In Gate Chase by Others	3	Each	0	0.0	0	0	Quote	0	0	0	0	0	0
In Lock Pocket by Others	13	Each	0	0.0	0	0	Quote	0	0	0	0	0	0
In Door Frame by Others	118	Each	0	0.0	0	0	Quote	0	0	0	0	0	0
Special Camera Housing FB Division 17	50	Each	0	0.0	0	0	Quote	0	0	0	0	0	0
UPC1 Security Relay Panel	1	Each	12	12.0	49.21	591	Quote	0	0	0	0	0	591
UPC2 Security Relay Panel	1	Each	12	12.0	49.21	591	Quote	0	0	0	0	0	591
*** SECURITY SYSTEM EQUIPMENT ESTIMATED COST ***				1,159.9		57,081		0		0		0	57,081