

Technical Specification				
No.	DESCRIPTION OF REQUIREMENT	SPECIFICATIONS	QTY2	Units
1.00	MAIN			
1.10	Panel "MB" BUILDING ISO	Panel "MB" BUILDING ISO	1.0	Ea
1.20	300Amp T.P Main Breaker in a Cabinet	300Amp T.P Main Breaker in a Cabinet	1.0	Ea
2.00	Main Switchboards			
2.10	24 Way T.P & N Panel 400Amp Bus "MDP" Complete with	24 Way T.P & N Panel 400Amp Bus "MDP" Complete with	1.0	Ea
2.12	300Amp T.P Main Breacker	300Amp T.P Main Breacker	1.0	Ea
2.13	125Amp T.P Sub Main Breaker	125Amp T.P Sub Main Breaker	1.0	Ea
2.14	80Amp T.P Sub Main Breaker	80Amp T.P Sub Main Breaker	5.0	Ea
3.00	SUB-DISTRIBUTION PANELS			
3.10	60Way T.P & N Panel 125Amp Bus "SDP1" Complete with	60Way T.P & N Panel 125Amp Bus "SDP1" Complete with	1.0	Ea
3.12	80Amp T.P Main breaker	80Amp T.P Main breaker	1.0	Ea
3.13	20Amp D.P breaker	20Amp D.P breaker	7.0	Ea
3.14	15Amp D.P breaker	12 - 15Amp D.P breaker	14.0	Ea
3.15	20amp S.P breaker	20amp S.P breaker	7.0	Ea
3.16	15Amp S.P breaker	15Amp S.P breaker	11.0	Ea
3.20	60Way T.P & N Panel 125Amp Bus "SDP2" Complete with	60Way T.P & N Panel 125Amp Bus "SDP2" Complete with	1.0	Ea
3.21	80Amp T.P Main breaker	1 - 80Amp T.P Main breaker	1.0	Ea
3.22	20Amp D.P breaker	6 - 20Amp D.P breaker	7.0	Ea
3.23	15Amp D.P breaker	12 - 15Amp D.P breaker	13.0	Ea
3.24	20amp S.P breaker	6 - 20amp S.P breaker	7.0	Ea
3.25	15Amp S.P breaker	10 - 15Amp S.P breaker	11.0	Ea
3.30	32 Way T.P & N Panel 125Amp Bus "SDP3" Cpomplet with	32 Way T.P & N Panel 125Amp Bus "SDP3" Cpomplet with	1.0	Ea
3.31	80Amp T.P Main breaker	1 - 80Amp T.P Main breaker	1.0	Ea
3.32	20Amp D.P breaker	2 - 20Amp D.P breaker	2.0	Ea
3.33	15Amp D.P breaker	4 - 15Amp D.P breaker	4.0	Ea
3.34	20Amp S.P breaker	2 - 20Amp S.P breaker	2.0	Ea

3.35	15Amp S.P breaker	5 - 15Amp S.P breaker	6.0	Ea
3.40	32 Way T.P & N Panel 125Amp Bus "SDP4" Cpomplet with	32 Way T.P & N Panel 125Amp Bus "SDP4" Cpomplet with	1.0	Ea
3.41	80Amp T.P Main breaker	1 - 80Amp T.P Main breaker	1.0	Ea
3.42	20Amp D.P breaker	2 - 20Amp D.P breaker	2.0	Ea
3.43	15Amp D.P breaker	4 - 15Amp D.P breaker	4.0	Ea
3.44	20Amp S.P breaker	2 - 20Amp S.P breaker	2.0	Ea
3.45	15Amp S.P breaker	5 - 15Amp S.P breaker	6.0	Ea
4.00	Trunking and Supports			
	TRUNKINGS			
4.10	Trunking (H)100 x (W)100mmThickness 2mm, Hot dip galvanized	Trunking (H)100 x (W)100mm Thickness 2mm, Hot dip galvanized	300.00	m
4.12	Self-drilling screws with hex washer head	12-14 x 25mm (1 inch)	1500.00	Ea
	SUPPORTS AND/ HANGERS			
4.21	Unistrut41x41x2.5mm, Hot dip galvanized	Unistrut 41x41x2.5mm, Hot dip galvanized	90.00	m
	Accessories			
4.22	3/8" -16 Spring Strut Channel Nuts	3/8" -16 Spring Strut Channel Nuts	90.00	Ea
4.23	3/8" -16 x 1Inch Grade 5 Coarse Hex Cap Screw	3/8" -16 x 1Inch Grade 5 Coarse Hex Cap Screw	90.00	Ea
5.00	BUSBAR AND LOW VOLTAGE CABLES			
	POWER CABLES			
5.10	From MDPC to Panel "MB"4c x 240mm XLPE cable	From MDPC to Panel "MB"4c x 240mm XLPE cable	336.00	m
5.11	From Panel "MB" to Panel "SDP 1 4c x 25mm XLPE cable	From Panel "MB" to Panel "SDP 1 4c x 25mm XLPE cable	66.15	m
5.12	From Panel "MB" to Panel "SDP 2 4c x 25mm XLPE cable	From Panel "MB" to Panel "SDP 2 4c x 25mm XLPE cable	66.15	m
5.13	From Panel "MB" to Panel "SDP 3 4c x 25mm XLPE cable	From Panel "MB" to Panel "SDP 3 4c x 25mm XLPE cable	136.50	m
5.14	From Panel "MB" to Panel "SDP 4 4c x 25mm XLPE cable	From Panel "MB" to Panel "SDP 4 4c x 25mm XLPE cable	136.50	m
5.15	1c x 6mm P.V.C Cable	1c x 6mm P.V.C Cable	84.00	m
5.16	14/3c AWG BX Cable	14/3c AWG BX Cable	756.00	m
5.17	14/1c AWG Copper wire	14/1c AWG Copper wire	15750.00	m
5.18	12/1c AWG copper cable	12/1c AWG copper cable	8400.00	m
5.19	1c x 10mm Green Insulated Cable	1c x 10mm Green Insulated Cable	420.00	m

5.20	1c x 50mm Green Insulated Cable	1c x 50mm Green Insulated Cable	15.75	m
	Accessories			
5.30	20mm BX connector	20mm BX connector	550.00	Ea
5.31	15Amp Wire Connectors	15Amp Wire Connectors	836.00	Ea
6.00	POWER SOCKETS AND LIGHT SWITCH			
	POWER SOCKETS			
6.10	Duplex Receptacles Flush 20A, 125V, 2P, 3W Grounding, Nema # 5-20R	Duplex Receptacles Flush 20A, 125V, 2P, 3W Grounding, Nema # 5-20R	18.00	Ea
6.12	Duplex Receptacles Flush 20A, 220V, 2P, 3W Grounding, Nema # 6-20R	Duplex Receptacles Flush 20A, 220V, 2P, 3W Grounding, Nema # 6-20R	18.00	Ea
	SWITCH			
6.13	Hard Use Specification Grade Switch , White 2-Pole 20A 120/277V Legend Pass and Seymour Cat# CSB20AC2W	Hard Use Specification Grade Switch , White 2-Pole 20A 120/277V Legend Pass and Seymour Cat# CSB20AC2W	35.00	Ea
	CONDUITS AND ACCESSORIES			
6.15	GI conduit 20.0mm(EMT, Thickness ≥1.45mm)	GI conduit 20.0mm(EMT, Thickness ≥1.45mm)	1477.30	m
6.16	GI conduit 25.0mm(EMT, Thickness ≥1.45mm)	GI conduit 25.0mm(EMT, Thickness ≥1.45mm)	770.00	m
6.17	2 X 4 Aluminum Junction Box	2 X 4 Aluminum Junction Box	36.00	Ea
6.18	4 X 4 Square Box Aluminum Junction Box	4 X 4 Square Box Aluminum Junction Box	18.00	Ea
6.19	DVXJ- Aluminum Box and cover	DVXJ- Aluminum Box and cover	264.00	Ea
	Accessories			
6.20	20mm EMT screw connectors	20mm EMT screw connectors	545.00	Ea
6.21	20mm EMT screw Copling	20mm EMT screw Copling	440.00	Ea
6.22	20mm EMT clamp	20mm EMT clamp	220.00	Ea
6.23	25mm EMT screw connectors	25mm EMT screw connectors	165.00	Ea
6.24	25mm EMT screw Copling	25mm EMT screw Copling	209.00	Ea
6.25	25mm EMT clamp	25mm EMT clamp	165.00	Ea
7.00	LIGHTING			
	WAREHOUSE + OUTDOOR LIGHTING			
7.10	Lithonia Compact Pro LED High Bay Fixture Cat # CPB30LMVOLT 50K 22Inch LED high Bay 30,398 Lumens 500k 120-277v 60hz	Lithonia Compact Pro LED High Bay Fixture Cat # CPB30LMVOLT 50K 22Inch LED high Bay 30,398 Lumens 500k 120-277v 60hz	264.0	Ea
7.12	Lithonia HC36 36" Chain Hangers	Lithonia HC36 36" Chain Hangers	264.0	Ea
7.13	Lithonia LED wall Pack Cat # TWR2 LED ALO SSW2 UVOLT PE DDBTXD 16,100 Lumens	Lithonia LED wall Pack Cat # TWR2 LED ALO SSW2 UVOLT PE DDBTXD 16,100 Lumens	35.0	Ea
7.14	Lithonia LED Exit EXRG Cat # EXRG EL M6	Lithonia LED Exit EXRG Cat # EXRG EL M6	20.0	Ea
7.15	Lithonia Emergency Light Die Architectural Cat # AFB OEL DDBTXD UVOLT LTPN WT	Lithonia Emergency Light Die Architectural Cat # AFB OEL DDBTXD UVOLT LTPN WT	18.0	Ea

8.00	GROUNDING			
	Grounding Details GD1			
8.10	Grounding Rod, copper clad 3/4 x 10'-0" Long	Grounding Rod, copper clad 3/4 x 10'-0" Long	44.0	Ea
8.12	Mold, Harger # GS-344/OP	Mold, Harger # GS-344/OP	3.0	Ea
8.13	Weld Metal Ultrashot US150	Weld Metal Ultrashot US150	55.0	Ea
8.14	4/0 Bare Copper Conductor	4/0 Bare Copper Conductor	484.0	m
	Grounding Details GD2			
8.15	Test Weld Inspection Housing, Lightweight Polymer, Concrete ERICO Cata # T422A	Test Weld Inspection Housing, Lightweight Polymer, Concrete ERICO Cata # T422A	3.0	Ea
8.16	Grounding Rod, copper clad 3/4 x 10'-0" Long	Grounding Rod, copper clad 3/4 x 10'-0" Long	3.0	Ea
8.17	Grounding Connector, Burndy # GAR6429	Grounding Connector, Burndy # GAR6429	3.0	Ea
8.18	Driving Sleeve,Cadweld # B-137-18	Driving Sleeve,Cadweld # B-137-18	3.0	Ea
	Grounding Details GD3			
8.19	Burndy YAZ28TC12, Compression terminal 4/0 AWG CU, 1 - Hole, 1/2" Stud, Long Barrel	Burndy YAZ28TC12, Compression terminal 4/0 AWG CU, 1 - Hole, 1/2" Stud, Long Barrel	21.0	Ea
8.20	1/2" x 2" Hex Head Bolt, Stainless Steel With 2 Flat Washer and 1 Lock Washer	1/2" x 2" Hex Head Bolt, Stainless Steel With 2 Flat Washer and 1 Lock Washer	21.0	Ea
8.21	1" P.V.C Schedule 40 Conduit	1" P.V.C Schedule 40 Conduit	45.0	m
8.22	4/0 Bare Copper Conductor	4/0 Bare Copper Conductor	230.0	m
	Grounding Details GD4			
8.23	Mold, Harger # RT-4/04/01	Mold, Harger # RT-4/04/01	3.0	Ea
8.24	Weld Metal Ultrashot US150	Weld Metal Ultrashot US150	28.0	Ea