



ELECTRICAL ONE LINE DIAGRAM

ELECTRICAL PANEL FEEDER SCHEDULE										
DESCRIPTION	FED FROM	CURRENT (FLA)	DEMAND (FLA)	BREAKER / POLES	# OF SETS	FEEDER WIRE			ACCUM VOLT DROP %	NOTES
							GROUND	EMT		
480 V										
L1A	MDP	6 A	4 A	100 A / 3	1 SET	4 #2	#8 GND.	1 1/2"	0.5%	
MDP	TX-UTIL	487 A	381 A	800 A / 3	3 SETS	4 #300 KCMIL	#3/0 G.E.C.	3"	0.5%	
208 V										
51A	TX-51A	173 A	155 A	400 A / 3	1 SET	4 #500 KCMIL	#1/0 G.E.C.	3 1/2"	0.2%	
51B	TX-51B	72 A	54 A	225 A / 3	1 SET	4 #4/0	#2 G.E.C.	2 1/2"	0.1%	
240 V										
DISC-LP3	TX-LP-3	0 A	0 A	400 A / 2	2 SETS	3 #3/0	#3/0 G.E.C.	2"	0.0%	
GENERAL: CONDUIT SIZES BASED ON EMT. UPSIZE AS REQUIRED WHERE PVC OR GALVANIZED IS USED OR REQUIRED PER SPECIFICATIONS.										
1 CONDUIT SIZES BASED ON EMT AND COPPER CONDUCTORS (UNLESS OTHERWISE INDICATED WITH AN "AL" FOR ALUMINUM). UPSIZE AS REQUIRED WHERE PVC OR GALVANIZED IS USED OR REQUIRED PER SPECIFICATIONS.										
2 G.E.C. = GROUNDING ELECTRODE CONDUCTOR FOR SEPARATELY DERIVED SYSTEM (PER SET, USE EQUIVALENT CML AND GEC FROM 250.66)										
3 GND. = EQUIPMENT GROUNDING CONDUCTOR (E.G.C.)										