		ו	
	KEYED NOTES		
	ERIFY WITH SERVICE PLANNER FOR AIC RATING AND ELECTRICAL INFORMATION BEFORE ISSUING		
(2) C B	ONTRACTOR TO PROVIDE COORDINATION PERFORMS CALCULATIONS OF DOWNSTREAM CIRCUIT		
3 0 B E	OVERCURRENT DEVICE 1200AMP AND GREATER SHALL COMPLY WITH NEC 240-87 LA 93.0207. ROVIDE ERMS SWITCH WITH LOCAL STATUS INDICATED TO REDUCE ARC FLASH ENERGY. LABEL QUIPMENT WITH THE ARCH FLASH HAZARD.		
(4) C T	ONTRACTOR TO PROVIDE FULL ARC FLASH REPORT AND INSTALL LABELING OF HE ARC FLASH RATING ON ALL EQUIPMENT.		
5 P IN R	ROVIDE SHUNT TRIP CIRCUIT BREAKER CONNECT TO POWER SHUT DOWN SWITCH NELEV RM CONNECT TO FIRE ALARM PANEL TO SHUT DOWN PRIOR TO SPRINKLER ELEASING.		
6 S A	OLAR BY OTHERS. COORDINATE WITH SOLAR CONSULTANT FOR BREAKER SIZE, CONDUIT SIZE, ND ALL OTHER ELECTRICAL REQUIREMENTS.		
(7) P	ER NEC 250.58, PROVIDE COMMON GROUNDING ELECTRODE SYSTEM FOR BUILDING C AND D.		
8 P R	ER ARCHITECTURAL EGRESS PLANS, ELEVATOR IS NOT PART OF ACCESSIBLE MEANS OF EGRESS. EFER TO ARCHITECTURAL PLANS FOR MORE DETAILS.		N Z
9 A	LL SERVICES SUPPLYING DWELLING UNITS SHALL BE PROVIDED WITH SURGE-PROTECTIVE (SPD) NACCORDANCE WITH NEC 230.67.		J
(10) P	ROVIDE GROUND FAULT PROTECTION "GFP" PER NEC 230.95, PROVIDE ZONE SELECTIVE.		
(11) P 2	ROVIDE ZONE SELECTIVE INTERLOCKING SYSTEM FOR ARC EMERGENCY REDUCTION PER NEC $40.87.$ $(10)$		
(12) P	ROVIDE 208V IN-120/208V OUT INVERTER WITH MAIN REFER TO E-0.3E FOR SPECIFY OF INVERTER .		
	THE FAULT CURRENT AT THE ELEVATOR CONTROLLER EXCEEDS THE CONTROLLER'S RATED APACITY, THE ELEVATOR MANUFACTURER/CONTRACTOR SHALL PROVIDE AN UTOTRANSFORMER TO REDUCE THE FAULT CURRENT AT THE CONTROLLER.	SEMTU	TO UTILITY
		142000 1	
	GENERAL NOTES	<u>42000-</u>	REFER TO UTILITY PLANS FOR THE SIZE
1. TH BY CC IS I	GENERAL NOTES ME MAXIMUM AVAILABLE FAULT CURRENT IS BASED ON WORST CASE FAULT CURRENT PUBLISHED THE UTILITY COMPANY. CONTRACTOR TO OBTAIN FAULT CURRENT LETTER FROM UTILITY OMPANY FOR EACH SERVICE BEFORE ORDERING SWITCHBOARD. IF AVAILABLE FAULT CURRENT HIGHER THAN SHOWN IN THE DRAWINGS, CONTACT ELECTRICAL ENGINEER IMMEDIATELY.	- <u>  42000-</u>    -	REFER TO UTILITY PLANS FOR THE SIZE AND NUMBERS OF CONDUITS AND ALL THE REQUIREMENTS
1. TH BY CC ISI 2. LE <sup>-</sup> TH	<b>GENERAL NOTES</b> NE MAXIMUM AVAILABLE FAULT CURRENT IS BASED ON WORST CASE FAULT CURRENT PUBLISHED THE UTILITY COMPANY. CONTRACTOR TO OBTAIN FAULT CURRENT LETTER FROM UTILITY OMPANY FOR EACH SERVICE BEFORE ORDERING SWITCHBOARD. IF AVAILABLE FAULT CURRENT HIGHER THAN SHOWN IN THE DRAWINGS, CONTACT ELECTRICAL ENGINEER IMMEDIATELY. TTER FOR SHORT CIRCUIT CURRENT VALUE FROM UTILITY COMPANY SHALL BE AVAILABLE AT IE JOB SITE FOR INSPECTION.	- <u>  42000-</u>    -	REFER TO UTILITY PLANS FOR THE SIZE AND NUMBERS OF CONDUITS AND ALL THE REQUIREMENTS
1. TH BY CC ISI 2. LE TH 3. ELI RE	<b>GENERAL NOTES</b> THE MAXIMUM AVAILABLE FAULT CURRENT IS BASED ON WORST CASE FAULT CURRENT PUBLISHED THE UTILITY COMPANY. CONTRACTOR TO OBTAIN FAULT CURRENT LETTER FROM UTILITY OMPANY FOR EACH SERVICE BEFORE ORDERING SWITCHBOARD. IF AVAILABLE FAULT CURRENT HIGHER THAN SHOWN IN THE DRAWINGS, CONTACT ELECTRICAL ENGINEER IMMEDIATELY. TTER FOR SHORT CIRCUIT CURRENT VALUE FROM UTILITY COMPANY SHALL BE AVAILABLE AT TE JOB SITE FOR INSPECTION. ECTRICAL EQUIPMENT SHALL BE LISTED BY THE CITY, WHERE THE PROJECT IS LOCATED, COGNIZED ELECTRICAL TESTING LABORATORY OR APPROVED BY THE DEPARTMENT.	- <b>I<u>I42000-</u>II</b>	REFER TO UTILITY PLANS FOR THE SIZE AND NUMBERS OF CONDUITS AND ALL THE REQUIREMENTS
1. TH BY CC ISI 2. LE <sup>T</sup> TH 3. EL RE 4. AL RA CU	<b>GENERAL NOTES</b> E MAXIMUM AVAILABLE FAULT CURRENT IS BASED ON WORST CASE FAULT CURRENT PUBLISHED THE UTILITY COMPANY. CONTRACTOR TO OBTAIN FAULT CURRENT LETTER FROM UTILITY OMPANY FOR EACH SERVICE BEFORE ORDERING SWITCHBOARD. IF AVAILABLE FAULT CURRENT HIGHER THAN SHOWN IN THE DRAWINGS, CONTACT ELECTRICAL ENGINEER IMMEDIATELY. TTER FOR SHORT CIRCUIT CURRENT VALUE FROM UTILITY COMPANY SHALL BE AVAILABLE AT TE JOB SITE FOR INSPECTION. ECTRICAL EQUIPMENT SHALL BE LISTED BY THE CITY, WHERE THE PROJECT IS LOCATED, COGNIZED ELECTRICAL TESTING LABORATORY OR APPROVED BY THE DEPARTMENT. L NEW CIRCUIT BREAKERS, FUSIBLE SWITCHES AND ELECTRICAL EQUIPMENT SHALL BE FULLY TTED HAVING A SHORT-CIRCUIT (AIC) RATING EXCEEDING THE AVAILABLE SHORT-CIRCUIT IRRENT AT THE EQUIPMENT.	- <u>  42000-</u>    -	REFER TO UTILITY PLANS FOR THE SIZE AND NUMBERS OF CONDUITS AND ALL THE REQUIREMENTS
1. TH BY CC ISI 2. LE <sup>-</sup> TH 3. ELI RE 4. AL RA CU 5. AL 5.1.	E MAXIMUM AVAILABLE FAULT CURRENT IS BASED ON WORST CASE FAULT CURRENT PUBLISHED THE UTILITY COMPANY. CONTRACTOR TO OBTAIN FAULT CURRENT LETTER FROM UTILITY OMPANY FOR EACH SERVICE BEFORE ORDERING SWITCHBOARD. IF AVAILABLE FAULT CURRENT HIGHER THAN SHOWN IN THE DRAWINGS, CONTACT ELECTRICAL ENGINEER IMMEDIATELY. TTER FOR SHORT CIRCUIT CURRENT VALUE FROM UTILITY COMPANY SHALL BE AVAILABLE AT IE JOB SITE FOR INSPECTION. ECTRICAL EQUIPMENT SHALL BE LISTED BY THE CITY, WHERE THE PROJECT IS LOCATED, COGNIZED ELECTRICAL TESTING LABORATORY OR APPROVED BY THE DEPARTMENT. L NEW CIRCUIT BREAKERS, FUSIBLE SWITCHES AND ELECTRICAL EQUIPMENT SHALL BE FULLY ITED HAVING A SHORT-CIRCUIT (AIC) RATING EXCEEDING THE AVAILABLE SHORT-CIRCUIT IRRENT AT THE EQUIPMENT. L SWITCHBOARDS AND DISTRIBUTION BOARDS SHALL HAVE: TIN-PLATED ALUMINUM BUSSING WITH RECTANGULAR CROSS SECTION. HORIZONTAL AND VERTICAL BUSSING SHALL BE FULL LENGTH AND SHALL HAVE PROVISIONS FOR FUTURE EXTENSIONS. ALL BUSSING SHALL HAVE MINIMUM WITHSTAND RATING EQUAL TO THE AVAILABLE FAULT CURRENT INDICATED. ALL VERTICAL AND HORIZONTAL BUSSING SHALL BE RATED AT FULL CAPACITY IN ALL SWITCHBOARD AND DISTRIBUTION BOARD SECTIONS. PROVIDE 100% NEUTRAL BUSSING MINIMUM UNLESS OTHERWISE NOTED. PROVIDE FULL LENGTH GROUND BUS AND, WHERE INDICATED ON PLANS, ISOLATED GROUND BUSSING. PROVIDE REAR WIRE WAY IN ALL SWITCHBOARD SECTIONS.		REFER TO UTILITY PLANS FOR THE SIZE AND NUMBERS OF CONDUITS AND ALL THE REQUIREMENTS
1. TH BY CC ISI 2. LE TH 3. ELI 3. ELI RE 4. AL RA CU 5. AL 5.1.	CREASE AND DISTRIBUTION BOARDS SHALL HAVE: I SWITCHBOARDS AND DISTRIBUTION BOARDS SHALL HAVE: I SWITCHBOARDS AND DISTRIBUTION BOARDS SHALL HAVE EXCISIONS FOR FUTURE AVAILABLE FAULT CURRENT INDICATED. ALL VERTICAL AND HORIZONTAL AND VERTICAL BUSSING SHALL BE SWITCHBOARD SHALL HAVE EXCISIONS FOR FUTURE EXTENSIONS. ALL BUSSING SHALL HAVE MINIMUM WITHSTAND RATING EQUAL TO THE RAVILABLE FOULT CURRENT INDICATED. ALL VERTICAL AND HORIZONTAL BUSSING SHALL BE SWITCHBOARDS AND DISTRIBUTION BOARDS SHALL HAVE: I SWITCHBOARDS AND DISTRIBUTION BOARDS SHALL HAVE: I SWITCHBOARDS AND DISTRIBUTION BOARDS SHALL HAVE I SWITCHBOARDS AND DISTRIBUTION BOARDS SHALL HAVE PROVISIONS FOR FUTURE EXTENSIONS. ALL BUSSING SHALL BE FULL LENGTH AND SHALL HAVE PROVISIONS FOR FUTURE EXTENSIONS. ALL BUSSING SHALL BAVE MINIMUM WITHSTAND RATING EQUAL TO THE AVAILABLE FAULT CURRENT INDICATED. ALL VERTICAL AND HORIZONTAL BUSSING SHALL BE RATED AT FULL CAPACITY IN ALL SWITCHBOARD AND DISTRIBUTION BOARD SECTIONS. PROVIDE 100% NEUTRAL BUSSING WITH RECTATED ON PLANS, ISOLATED GROUND BUSSING. PROVIDE 100% NEUTRAL BUSSING WITH BUSSING PROVIDES OTTED. PROVIDE FULL LONGTH GROUND BUS AND, WHERE INDICATED ON PLANS, ISOLATED GROUND BUSSING. PROVIDE 100% NEUTRAL BUSSING WITCHBOARD SECTIONS. I LUGS SUITABLE FOR USE WITH COPPER OR ALUMINUM CONDUCTORS LISTED FOR USE WITH TO DEGREE CELSIUS AMPACITY CONDUCTORS.		REFER TO UTILITY PLANS FOR THE SIZE AND NUMBERS OF CONDUITS AND ALL THE REQUIREMENTS
1. TH BY CC ISI 2. LE TH 3. ELI 3. ELI 7. AL 7. AL 5. AL 5.1. 5.2. 5.3.	EMAXIMUM AVAILABLE FAULT CURRENT IS BASED ON WORST CASE FAULT CURRENT PUBLISHED THE UTILITY COMPANY. CONTRACTOR TO OBTAIN FAULT CURRENT LETTER FROM UTILITY MPANY FOR EACH SERVICE BEFORE ORDERING SWITCHBOARD. IF AVAILABLE FAULT CURRENT HIGHER THAN SHOWN IN THE DRAWINGS, CONTACT ELECTRICAL ENGINEER IMMEDIATELY. TTER FOR SHORT CIRCUIT CURRENT VALUE FROM UTILITY COMPANY SHALL BE AVAILABLE AT E JOB SITE FOR INSPECTION. ECTRICAL EQUIPMENT SHALL BE LISTED BY THE CITY, WHERE THE PROJECT IS LOCATED, COGNIZED ELECTRICAL TESTING LABORATORY OR APPROVED BY THE DEPARTMENT. L NEW CIRCUIT BREAKERS, FUSIBLE SWITCHES AND ELECTRICAL EQUIPMENT SHALL BE FULLY ITED HAVING A SHORT-CIRCUIT (AIC) RATING EXCEEDING THE AVAILABLE SHORT-CIRCUIT WRENT AT THE EQUIPMENT. L SWITCHBOARDS AND DISTRIBUTION BOARDS SHALL HAVE: TIN-PLATED ALUMINUM BUSSING WITH RECTANGULAR CROSS SECTION. HORIZONTAL AND VERTICAL BUSSING SHALL BE FULL LENGTH AND SHALL HAVE PROVISIONS FOR FUTURE EXTENSIONS. ALL BUSSING SHALL HAVE MINIMUM WITHSTAND RATING EQUAL TO THE AVAILABLE FAULT CURRENT INDICATED. ALL VERTICAL AND HORIZONTAL BUSSING SHALL BE RATED AT FULL CAPACITY IN ALL SWITCHBOARD AND DISTRIBUTION BOARD SECTIONS. PROVIDE REAR WIRE WAY IN ALL SWITCHBOARD AND DISTRIBUTION BOARD SECTIONS. PROVIDE REAR WIRE WAY IN ALL SWITCHBOARD AND DISTRIBUTION BOARD SECTIONS. PROVIDE REAR WIRE WAY IN ALL SWITCHBOARD AND DISTRIBUTION BOARD SECTIONS. PROVIDE REAR WIRE WAY IN ALL SWITCHBOARD SECTIONS. LUGS SUITABLE FOR USE WITH COPPER OR ALUMINUM CONDUCTORS LISTED FOR USE WITH 75 DEGREE CELSIUS AMPACITY CONDUCTORS. PERMANENT PLACARD(S) MARKED PER THE SPECIFICATIONS AND PER NEC (OR CEC-WHERE ADOPTED) SECTIONS 225.37, 230.2(E), 690.56, 692.56, 700.7, 701.7, 702.7, AND 705.10 DENOTING THE PRESENCE OF ADDITIONAL SERVICES APPLICABLE.		REFER TO UTILITY PLANS FOR THE SIZE AND NUMBERS OF CONDUITS AND ALL THE REQUIREMENTS
1. TH BY CC ISI 2. LE <sup>T</sup> TH 3. ELL 3. ELL RA CU 5. AL 5.1. 5.2. 5.3. 5.4.	CREATE AND A SHORT SHALL BE LISTED BY THE CITY, WHERE THE PROJECT IS LOCATED, CONTRACTOR TO APPROVED BY THE DEPARTMENT. SHORT CIRCUIT CURRENT VALUE FROM UTILITY COMPANY. CONTRACTOR TO APPROVED BY THE DEPARTMENT. SHORT CIRCUIT CURRENT VALUE FROM UTILITY COMPANY FOR EACH SERVICE BEFORE ORDERING SWITCHBOARD. IF AVAILABLE FAULT CURRENT HIGHER THAN SHOWN IN THE DRAWINGS, CONTACT ELECTRICAL ENGINEER IMMEDIATELY. TTER FOR SHORT CIRCUIT CURRENT VALUE FROM UTILITY COMPANY SHALL BE AVAILABLE AT E JOB SITE FOR INSPECTION. ECTRICAL EQUIPMENT SHALL BE LISTED BY THE CITY, WHERE THE PROJECT IS LOCATED, COGNIZED ELECTRICAL TESTING LABORATORY OR APPROVED BY THE DEPARTMENT. L NEW CIRCUIT BREAKERS, FUSIBLE SWITCHES AND ELECTRICAL EQUIPMENT SHALL BE FULLY THE DHAVING A SHORT-CIRCUIT (AIC) RATING EXCEEDING THE AVAILABLE SHORT-CIRCUIT TRENT AT THE EQUIPMENT. L SWITCHBOARDS AND DISTRIBUTION BOARDS SHALL HAVE: TIN-PLATED ALUMINUM BUSSING WITH RECTANGULAR CROSS SECTION. HORIZONTAL AND VERTICAL BUSSING SHALL BE FULL LENGTH AND SHALL HAVE PROVISIONS FOR FUTURE EXTENSIONS. ALL BUSSING SHALL BE FULL LENGTH AND SHALL HAVE PROVISIONS FOR FUTURE EXTENSIONS. ALL BUSSING SHALL HAVE INNIMUM WITHSTAND RATING EQUAL TO THE AVAILABLE FAULT CURRENT INDICATED. ALL VERTICAL AND HORIZONTAL BUSSING SHALL BE FULL LENGTH AND SHALL HAVE PROVISIONS FOR FUTURE EXTENSIONS. ALL BUSSING SHALL HAVE INNIMUM WITHSTAND RATING EQUAL TO THE AVAILABLE FAULT CURRENT INDICATED. ALL VERTICAL AND HORIZONTAL BUSSING SHALL BE RATED AT FULL CAPACITY IN ALL SWITCHBOARD AND DISTRIBUTION BOARD SECTIONS. PROVIDE FULL LARGATING MINIMUM UNLESS TO THE PROVIDE FULL LENGTH ARD SHALL HAVE PROVIDED. PROVIDE FULL LENGTH ARD SHALL HAVE PROVIDED. PROVIDE FULL LENGTH AND SHALL HAVE PROVIDED. PROVIDE FULL LENGTH ARD SHALL BE RATED AT FULL CARACITY IN ALL SWITCHBOARD AND DISTRIBUTION BOARD SECTIONS. PROVIDE FULL CARACITY IN ALL SWITCHBOARD SECTIONS. PROVIDE REAR WIRE WAY IN ALL SWITCHBOARD SECTIONS. INCIDE REAR WIRE WAY IN ALL SWITCHBOARD SECTIONS. PROVIDE REAR WIRE WAY IN ALL SWITCHBO		REFER TO UTILITY PLANS FOR THE SIZE AND NUMBERS OF CONDUITS AND ALL THE REQUIREMENTS
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CABLE NAME	PANEL NAME	UNIT/ CIRCUIT	VOLTS	PHASE	FEEDER					CONDUIT				FAULT CURRENT					
					DEMAND AMPS	AMPS	PARALLEL RUNS	PHASE CONDUCTOR	EQUIPMENT GROUNDING CONDUCTOR	CONDUCTOR MATERIAL	CONDUCTOR INSULATION	CONDUIT TYPE	CONDUIT SIZE	FILL% (<40%)	DISTANCE (FT) 'L'	%VD	FAULT CURRENT	lsc	AIC
MS D-E	MS D-E	METER BANK	208	3	887	1000	10	750	300	ALUM	THHN	PVC	4	37.11%	310	1.19	100000	50157	65000
MS F	MS F	METER BANK	208	3	879	1000	4	500	4/0	ALUM	THHN	EMT	3	35.64%	20	0.23	100000	81834	10000
MS G-H	MS G-H	METER BANK	208	3	1044	1200	4	500	250	ALUM	THHN	EMT	3	36.47%	20	0.28	100000	81834	10000
HPD&E	HPD&E	HOUSE	208	3	150	150	1	350	3/0	ALUM	THHN	EMT	3	26.73%	327	3.27	100000	5381	10000
HPF	HPF	HOUSE	208	3	100	100	1	2/0	3	ALUM	THHN	EMT	2	29.40%	172	2.29	100000	4778	10000
HPG	HPG	HOUSE	208	3	100	100	1	3/0	2	ALUM	THHN	EMT	2	35.38%	237	2.76	100000	4281	10000
HPH	HPH	HOUSE	208	3	100	100	1	1/0	4	ALUM	THHN	EMT	2	24.56%	138	2.3	100000	4787	10000
PS	PS	PS	208	3	200	200	1	250	4	ALUM	THHN	PVC	2 1/2	35.58%	120	2	100000	11404	22000
PP	PP	PP	208	3	100	100	1	3/0	2	ALUM	THHN	EMT	2	35.38%	20	0.23	10819	8985	10000



## ELECTRICAL EQUIPMENT ELEVATION - 'MS1A' SCALE: 3/4": 1'-0" ΎΑ,

## SINGLE LINE DIAGRAM - 'MS1A'



