

* NOTE: EACH FAN COIL UNIT TO HAVE NEMA "1" STARTER W/4.0A, 4 RIBBED DISCONNECT TO MATCH HP. SIZE.

POWER BREAKDOWN IN KILOWATTS FOR SWBD. "ML"

ELECTRICAL CHARACTERISTICS: 277/480, 3 PH, 4 W

NO.	ITEM	LIGHTING	RECPY.	FRAC HP MOTOR	LARGE MOTOR	KITCHEN	ELEC. HEAT	TOTAL
1	PANEL H1	78.9						78.9
2	FAN COIL UNITS			37.8				37.8
3	CFW-1				1.0			1.0
4	PUMP-1				9.1			9.1
5	PUMP-2				17.2			17.2
6	PUMP-3				17.2			17.2
7	STW-1				11.8			11.8
8	STW-2				11.8			11.8
9	PUMP-4 & 5A				36.0			36.0
10	COOLING TOWER				36.3			36.3
11	CHILLER				236.0			236.0
12	CHILLER				236.0			236.0
13	PANEL L2	3.8	17.2	2.8			3.7	27.5
14	PANEL H2	37.1	3.6		89.9			130.6
15	CHILLER	86.7	36.2	34.8			43.2	260.9
16	CHILLER	86.7	36.2	34.8			43.2	260.9
TOTALS		207.3	79.0	86.4	449.3	0.0	83.3	1163.7
DEMAND FACTORS	1200	150	100	1000	1000	1000	1000	
DEMAND LOAD	239.1	64.5	86.4	869.9	0.0	83.3	0.0	896.1
KVA OF LARGEST MOTOR =	236.0							
TOTAL AMPERE:	1163.7							

POWER BREAKDOWN IN KILOWATTS FOR SWBD. "ML"

ELECTRICAL CHARACTERISTICS: 120/208V, 3 PH, 4 W

NO.	ITEM	LIGHTING	RECPY.	FRAC HP MOTOR	LARGE MOTOR	ELEC. HEAT	TOTAL	
1	PANEL L1	7.7	28.4				36.1	
2	PANEL L2	8.1	9.8			15.5	33.5	
3	PANEL L3	2.3	18.2	0.8			21.3	
4	PANEL L4	13.8	4.7	2.1			20.6	
5	EXTERIOR SIGN	5.8					5.8	
6	PORTABLE STAGE LTG.	17.2					17.2	
7	PORTABLE STAGE LTG.	17.2					17.2	
8	PORTABLE STAGE LTG.	17.2					17.2	
TOTALS		86.7	56.2	29.6	0.0	43.2	215.7	
DEMAND FACTORS	1200	150	100	1000	1000	1000	1000	
DEMAND LOAD	112.2	34.1	34.8	1.2	0.0	43.2	0.0	215.3
KVA OF LARGEST MOTOR =	4.0							
TOTAL AMPERE:	507.6							

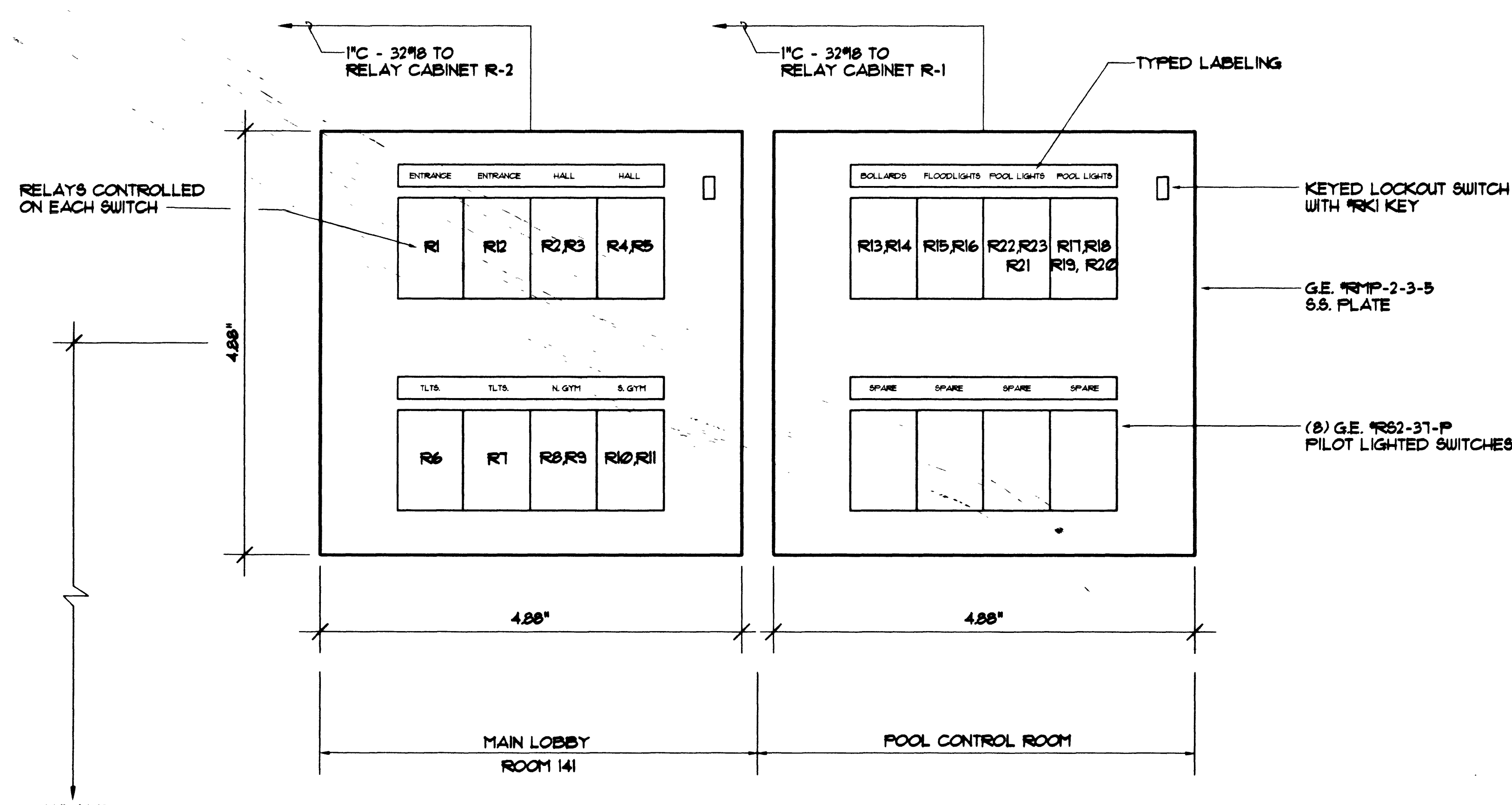
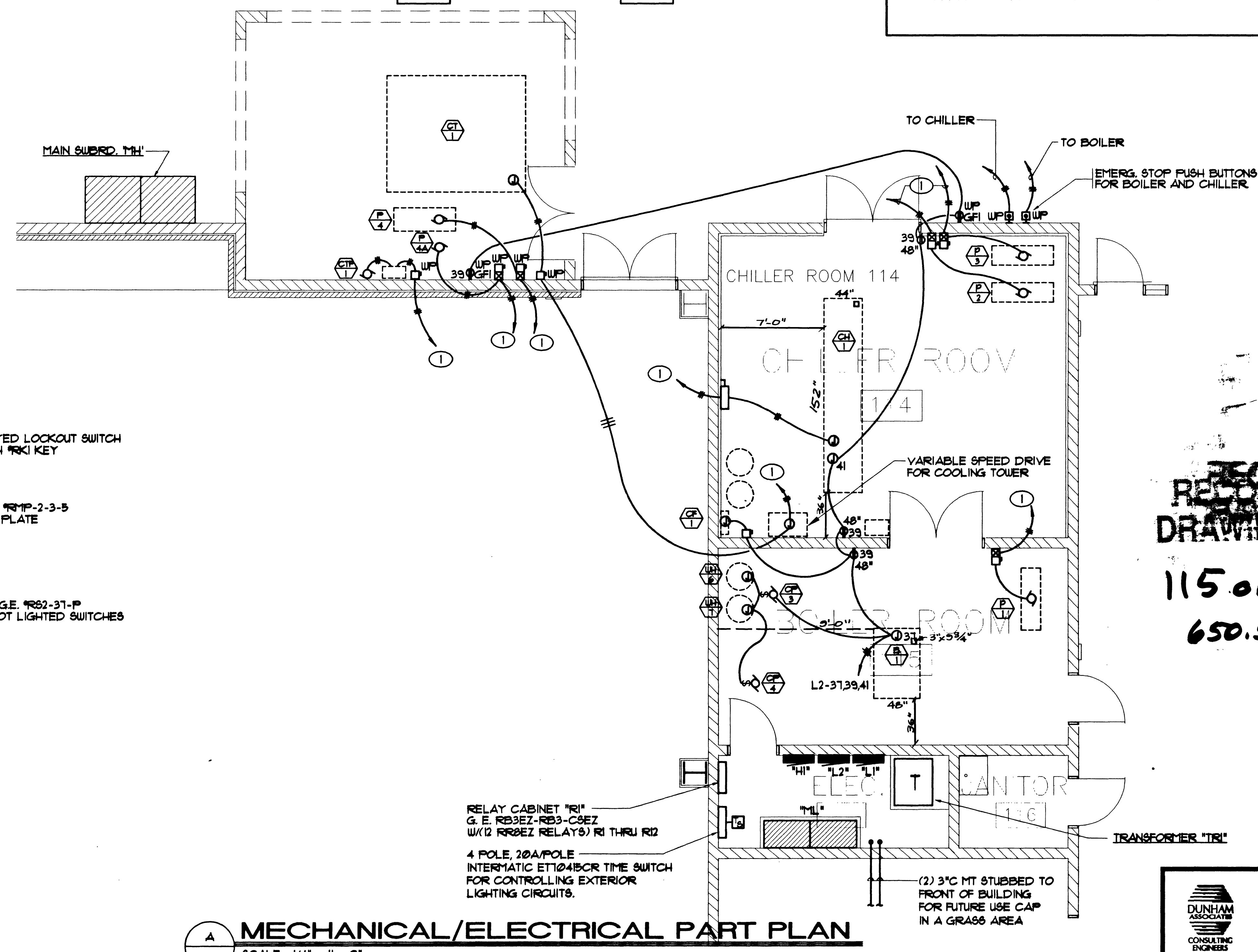
ONE LINE DIAGRAM
E5.1 NOT TO SCALE
21050 - CALCULATED FAULT CURRENT

SHEET NOTES

- SEE ONE-LINE DIAGRAM FOR WIRING REQUIREMENTS
- GROUNDING TO COMPLY W/ NEC 250-54.

GENERAL NOTE

- THE ENGINEER OF RECORD HAS PERFORMED ALL REQUIRED SHORT CIRCUIT CALCULATIONS AND THE AIC RATINGS INDICATED FOR EACH DEVICE TO PROTECT THE EQUIPMENT AND THE ELECTRICAL SYSTEM.
- THE ENGINEER OF RECORD HAS PERFORMED ALL REQUIRED VOLTAGE DROP CALCULATIONS AND ALL BRANCH CIRCUITS AND FEEDERS COMPLY WITH NEC 210-15 (4) FPN No. 4.



L.V. SWITCHING PANELS
E5.1 NOT TO SCALE

MECHANICAL/ELECTRICAL PART PLAN
SCALE: 1/4" = 1' - 0"

RECORD DRAWINGS
115 OF 118
650.57

DUNHAM ASSOCIATES
CONSULTING ENGINEERS
3024 Regal Avenue
Las Vegas, NV 89102
PH: 702-259-9999
FAX: 702-259-9998

REVISION

DATE

DESCRIPTION

REV. BY

WAYNE SCHREIBER AA
THOMAS M. SILVA AA

1525 WEST OAKLEY BLVD
LAS VEGAS, NV 89102
(702) 365-0077
FAX 363-0057

RECORD DRAWINGS

ELECTRICAL PART PLAN & ONE LINE DIAGRAM

CITY OF LAS VEGAS DEPARTMENT OF PARK AND LEISURE ACTIVITIES
DURANGO RECREATION FACILITY

Verify all Dimensions and Conditions at the Site

Sheet Title

Job Title

Job No. 960901

Date 2-20-98

Drawn By MDV

Check RCK

Sheet E5.1

Of 115 OF 11
9 OF 11

650.57