ELECTRICAL PANEL SCHEDULE

MAIN: 100 AMP | PANEL: A | LOCATION: REAR/INTERIOR | FEED: REAR | MOUNTING: FLUSH

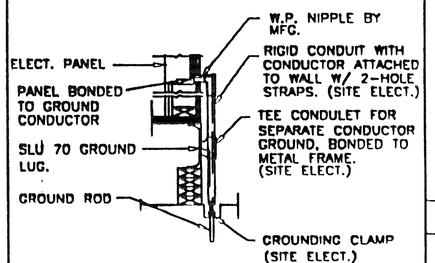
LOAD		WATTS A⌀	WATTS B⌀	BREAKER Amps	BREAKER P	CKT	A	B	CKT	BREAKER P	BREAKER Amps	WATTS A⌀	WATTS B⌀	LOAD
RECEPTACLE	(4)	720		20	1	1			2	2	50	3360		HVAC (3.5T)
RECEPTACLE/CLOCK	(5)		720	20	1	3			4	--	--		3360	HVAC (3.5T)
INT/EXT LIGHTS	(13)	900		20	1	5			6	2	30	2500		HEAT STRIPS (5KW)
INTERIOR LIGHTS	(12)		840	20	1	7			8	--	--		2500	HEAT STRIPS (5KW)
						9			10					
						11			12	--	--	40		FIRE ALARM (DEDICATED)
WATTS/PHASE	A = 7480	1620	1560									5860	5900	B = 7480 WATTS/PHASE

TOTAL 15'375 WATTS | 65 AMPS | 120/240 VOLTS | SINGLE ⌀ | THREE WIRE

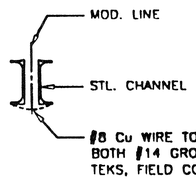
NCL = 13,200 W

GENERAL GROUNDING NOTES

1. EACH BUILDING SHALL BE SEPARATELY GROUNDED WITH A 3/4" RD. X 8' COPPERCLAD STEEL GROUND ROD. WHERE ROCK BOTTOM IS ENCOUNTERED, ROD SHALL BE DRIVEN AT AN ANGLE NOT TO EXCEED 45 DEGREE'S FROM THE VERTICAL OR SHALL BE BURIED IN A TRENCH THAT IS AT LEAST 30" DEEP. (BY SITE ELECTRICAL)
2. TESTING: TEST FOR RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS SEPARATED AT LEAST 8'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS. (BY SITE ELECTRICAL)
3. PROVIDE EQUIPMENT ANCHORAGE PER TITLE 24, TABLE 16 J, PART 8.
4. APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THIS FIRE ALARM FOR ALL SITES. THE FIRE ALARM SYSTEM AND/OR COMPONENTS MAYBE REQUIRED TO BE CHANGED DUE TO SITE LOCATION, EXISTING CONDITIONS OR INCOMPATIBLE COMPONENTS.
5. GROUND MD TEST SHALL BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR. ALL GROUNDING SHALL BE IN ACCORDANCE WITH C.E.C. ARTICLE 250.



TYP GROUNDING DETAIL | 1



GROUND JUMPER • MOD LINE | 2

ELECTRICAL LEGEND

- 2'x4' 4 TUBE FLUORESCENT LIGHT FIXTURE
- STANDARD LIGHT FIXTURE AT +93" AFF
- DUPLEX WALL RECEPTACLE 15-A 125-V 3-WIRE AT +18" AFF
- HVAC UNIT [HV]
- 4s J-BOX FOR FIRE ALARM PULL STATION AT +48" AFF, 3/4" CO TO PULLSTRING
- 4s J-BOX FOR FIRE ALARM STROBE AT +80" AFF, 3/4" CO TO PULLSTRING
- 4s J-BOX FOR FIRE ALARM HORN AT +96" AFF 3/4" CO STUB IN ATTIC, PULLSTRING
- WEATHER PROOF GUTTER BOX (6x6x4) AT +18" AFF 3/4 CO STUB IN ATTIC, PULLSTRING
- ELECTRICAL PANEL AT +60" AFF TO CENTERLINE 1 1/4" POWER NIPPLE MIN. GND JUMPER BY SITE ELECT
- SWITCH AT +48" AFF
- CLOCK AT +90" AFF

NOTES

1. SCHOOL EQUIPMENT ANCHORAGE

THE FOLLOWING IS FOR THE ARCHITECTS INFORMATION ONLY:

THE SEISMIC ANCHORAGE OF ELECTRICAL EQUIPMENT SHALL CONFORM TO C.C.R. TITLE 24, SECTION 1630A.3 (g) AND TABLE 16A-O. ANCHORAGE DETAILS FOR ROOF/FLOOR MOUNTED EQUIP. WEIGHING LESS THAN 400 LBS. & HUNG EQUIPMENT WEIGHING LESS THAN 20 LBS. MAY BE OMITTED FROM THE PLANS.

FOR ELECTRICAL DRAWINGS:

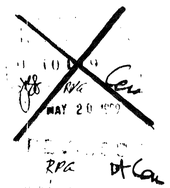
ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA:

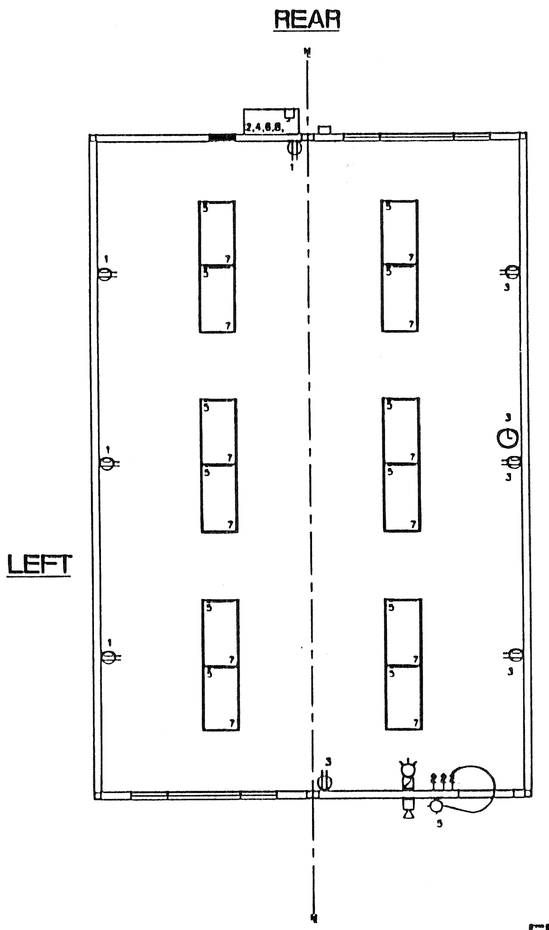
EQUIPMENT ON GRADE	20% OF OPERATING WEIGHT
EQUIPMENT ON STRUCTURE	30% OF OPERATING WEIGHT

FOR FLEXIBLY MOUNTED EQUIPMENT USE 4 X THE ABOVE VALUES, AND FOR SIMULTANEOUS VERTICAL FORCE USE 1/3 X THE HORIZONTAL FORCE.

THE ABOVE VALUES ARE FOR AN IMPORTANCE FACTOR, I = 1.0 AND SEISMIC ZONE, Z = 0.4.

WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT AND THE FIELD ENGINEER OF THE OFFICE OF THE STATE ARCHITECT.





ELECTRICAL PLAN (24'X40')

SCALE: 1/4" = 1'-0"

BASED ON PC 270

REVISIONS

1			
2			
3			
4			
5			

Electrical Engineer's Seal | Mechanical Engineer's Seal | Structural Engineer's Seal | Architects Seal

Division of the State Architect
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL 270
AC___ FLS___ BS___
DATE___

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER: ----

© MODTECH, INC. 1998

DRAWN BY: --
DATE: --
CHECKED BY:
DATE:
MODTECH PROJECT NO: ----

MODTECH Index No.

ELECTRICAL PLAN

E1.0

PROJECT NO.----

E-