

NOTE:  
NO ALTERATIONS (DRILLING HOLES, ECT.) ARE TO BE MADE TO STEEL STRUCTURAL MEMBERS.

48' x 40' ELECTRICAL PLAN

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

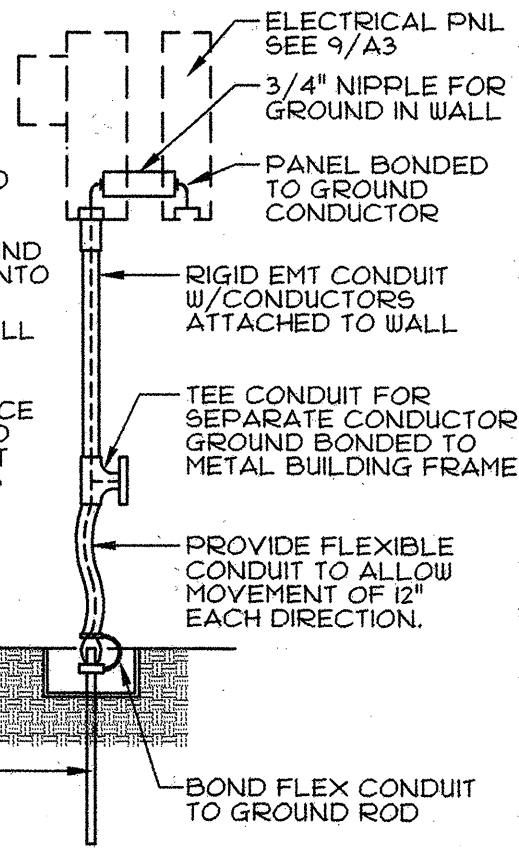
- FIRE ALARM: FURNISHED BY OWNER AND SHALL CONFORM TO THE CALIFORNIA BUILDING CODE SECTION 305.9 AND CALIFORNIA ELECTRICAL CODE ARTICLE 760.
- INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY D.S.A.
- UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE PROJECT INSPECTOR.

2 FIRE PROTECTION

- ⊕ DUPLEX RECEPTACLE #18" MIN. FROM FLOOR
- Ⓢ PROGRAMMABLE DIGITAL THERMOSTAT FOR HVAC UNIT #160" MAX. FROM FLOOR SEALED (NON USER OPERABLE)
- Ⓛ WALL CLOCK W/SINGLE CLOCK RECEPTACLE
- Ⓜ JUNCTION BOX ABOVE IN CEILING OR WALLS
- Ⓜ WATER PROOF BELL BOX UNDER EAVE #9'-4" FOR FUTURE FIRE ALARM AUDIBLE WARNING DEVICE - SEE NOTE NO. 1 OF FIRE PROTECTION
- Ⓜ OUTLET BOX #48" TO CENTER FOR FUTURE FIRE ALARM PULL STATION - SEE NOTE NO. 1 OF FIRE PROTECTION ABOVE
- Ⓜ OUTLET BOX #80" TO CENTER FOR FUTURE FIRE ALARM VISUAL WARNING DEVICE - SEE NOTE NO. 1 OF FIRE PROTECTION ABOVE
- Ⓜ OUTLET BOX #48" TO CENTER FOR FUTURE INTERCOM SYSTEM
- Ⓜ EXTERIOR INCANDESCENT LIGHT FIXTURE
- Ⓜ LIGHT SWITCH #48" MAX. TO CENTER FROM FLOOR
- Ⓜ 2"x4" J-BOX #18" MIN. FOR FUTURE TELEPHONE

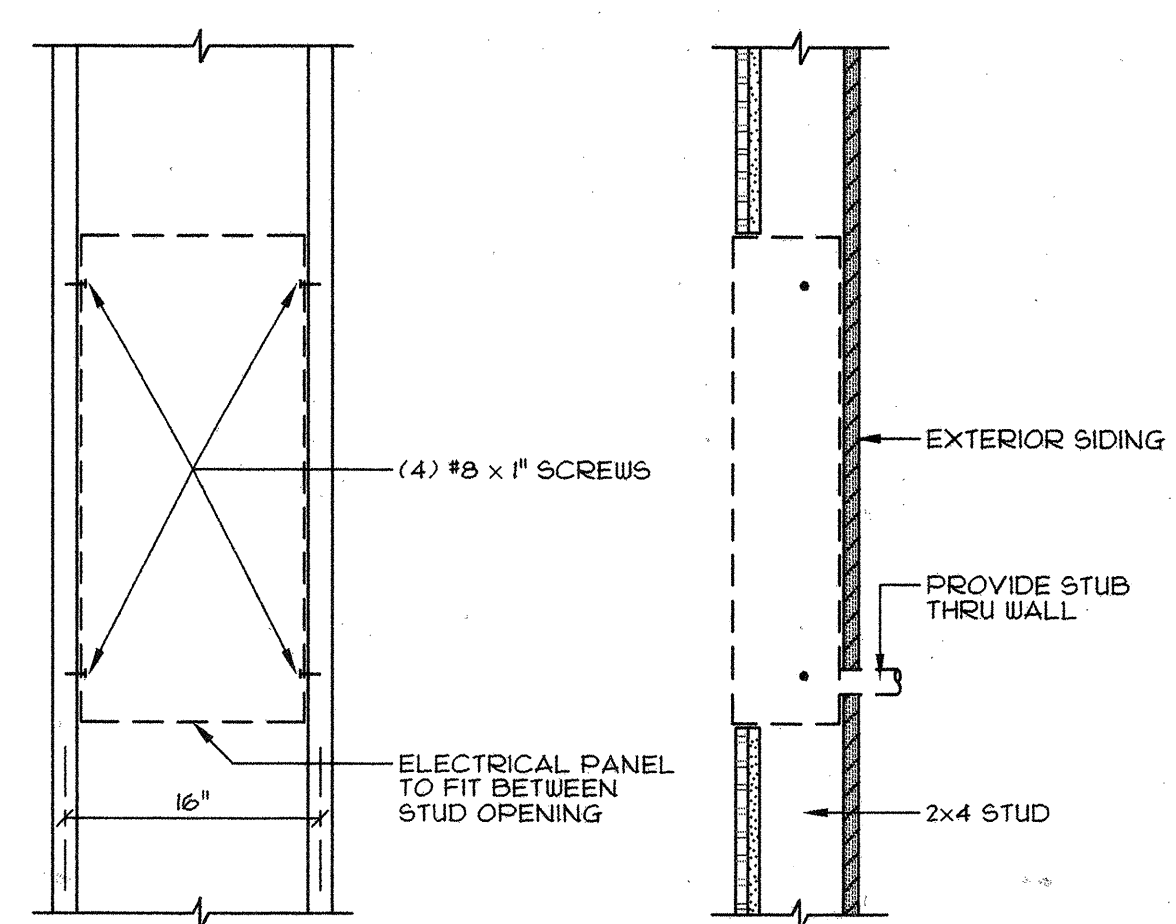
4 ELECTRICAL SYMBOLS

- NOTES:
- METER AND GROUND ARE NOT PART OF THIS CONTRACT TO BE PROVIDED BY OTHERS
  - SIZE OF CONDUCTORS SHALL COMPLY W/CEC TABLE 250-95
  - BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL OF BUILDING FRAME (CEC 250-81) IN ADDITION TO THE DETAIL SHOWN BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10' INTO THE SOIL IF AVAILABLE (C.E.C. 250-81 & 250-83)
  - ALL MODULES OF METAL FRAME BUILDING SHALL BE ELECTRICALLY BONDED TOGETHER, BOLTING ONLY IS NOT ACCEPTABLE BONDING.
  - CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS W/ CONDUCTORS AS SHOWN, SEPARATE AT LEAST 6' UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS. (C.E.C. 250-84)
  - ELECTRICAL GROUNDING TEST SHALL BE WITNESSED BY THE PROJECT INSPECTOR & RESULTS SENT TO D.S.A.
  - GROUND ROD GROUNDING CLAMP TO BE BUSHING RATED FOR 3 CONNECTIONS



1/2" x 8'0" LONG COPPER CLAD GROUND ROD OR OTHER ELECTRODE AS SPECIFIED IN CALIFORNIA ELECTRICAL CODE (C.E.C. 250-83)

6 ELECTRICAL GROUND



9 ELECTRICAL PANEL MTG. DETAIL

SCALE: 1/2"=1'-0"

- WALL CLOCK: 12" x 9 1/2" FROM FLOOR WITH EAGLE CLOCK RECEPTACLE 15 VAC. R4H INC. OR EQUAL.
- ELECTRICAL PANEL: FLUSH MOUNTED W/ HINGED DOORS AND INDEXED CARD HOLDERS CIRCUIT BREAKER(S) WILL HAVE AN APPROPRIATE UL LABEL LISTED.
- RECEPTACLES: LEVITON, HUBBEL OR EQUAL #18" MIN.
- LIGHT SWITCHES: LEVITON, HUBBEL OR EQUAL #48" MAX.
- LIGHTING FIXTURE: 2' x 4' FLUORESCENT DROP-IN TYPE FIXTURES T-12 WITH 40 WATT LAMPS OR T-8 W/ELECTRONIC BALLAST & 32 WATT LAMPS COPPER, LITHONIA OR EQUAL.
- ELECTRIC METALLIC TUBING: COUPLINGS AND FLEX CONDUIT GALVANIZED OR SHERARDIZED.
- CONDUCTORS: COPPER, INSULATED FOR 600 VOLTS, TYPE THHN FOR SIZES #12 TO #6 TYPE THW FOR LARGER SIZES, MINIMUM SIZE #12. LIGHTING & OUTLETS USE MINIMUM SIZE #12. SIZE HVAC WIRING PER LOAD.
- SEE SHEET A2 FOR HVAC & THERMOSTAT SPECIFICATION.

3 ELECTRICAL SPECIFICATIONS

- CERTIFIED LUMINARIES/BALLASTS
- INDEPENDENT CONTROL WITHIN ENCLOSED AREAS
- MANUAL SWITCHING READILY ACCESSIBLE
- REDUCTION OF LIGHTING LOAD TO AT LEAST 50%
- SEPARATE SWITCHING OF DAY/LITE AREAS
- TANDEM WIRING OF 4 LAMP LUMINARIES

5 ELECTRICAL ENERGY COMPLIANCE

PANEL SCHEDULE: "A" NEMA-1 VOLTS: 120/240  
MOUNTING: FLUSH AMP(S): 150 WIRE: 3W  
INTERIOR PHASE: 1φ

DESCRIPTION	LOAD	BRKR		BRKR	LOAD	DESCRIPTION	
2.0 TON HVAC UNIT W/ CRV	812	40	1	2	40	2.0 TON HVAC UNIT W/ CRV	
2.0 TON HVAC UNIT W/ CRV	812	40	5	6	20	LIGHTING-A	
LIGHTING-E	400	20	1	8	20	LIGHTING-B	
LIGHTING-F	400	20	1	10	20	LIGHTING-C	
REFRIGERATOR	780	20	1	12	20	LIGHTING-D	
DISHWASHER	1032	20	1	14	20	20 GAL. WATER HEATER	
GFI-OUTLETS	1260	20	1	16	20	1080	OUTLETS
OUTLETS	1260	20	1	18	20	1280	GFI-OUTLETS
				20	20	180	FAN/LIGHTS
				22	20	1440	MICROWAVE
				24	20	300	SPARE
				21			
				23			
	21356	KVA	TOTAL		15.393		

7 PANEL SCHEDULE "A"

DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP  
DIVISION OF THE STATE ARCHITECT  
APPROX: 104070  
DATE: 3/2/02

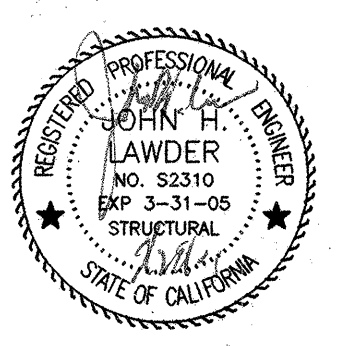
LICENSED ARCHITECT  
GENE M. SUGIMOTO  
C 007104  
REN. 3/2/02  
STATE OF CALIFORNIA

DESIGN CRITERIA  
ROOF: DEAD LOAD - 8.0 PSF  
ROOF: LIVE LOAD - 20.0 PSF (SNOW)  
FLOOR: DEAD LOAD - 8.0 PSF  
FLOOR: LIVE LOAD - 50.0 PSF 70.0 PSF  
(OPTIONAL) FLOOR-LIVE LOAD 70.0 PSF  
(OPTIONAL) FLOOR-LIVE LOAD 125.0 PSF  
WALLS: DEAD LOAD - 8.0 PSF  
WIND: 80 MPH; EXPOSURE: C  
qs=16.4 PSF; Ce=1.06; Cq AS REQ.  
SEISMIC: ZONE 4, R=4.5, Cp=2.8, N=1.5, Co=0.44, Np=2.0, Co=0.64N

THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER AND PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY AND ACCESS COMPLIANCE SECTION

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ENVIROPLEX, INC.  
4777 E. CARPENTER ROAD STOCKTON, CA 95215  
48'x40' RELOCATABLE CLASSROOMS FOR SKYLINE COLLEGE  
© FACILITIES MAINTENANCE CENTER

ELECTRICAL POWER & SIGNAL PLAN  
ELECTRICAL LIGHTING PLAN  
DETAILS—ELECTRICAL NOTES

REVISION DATE:	BY:
JOB NO: 01-053	
DRAWN BY: JQ	
DATE: 08-06-01	

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