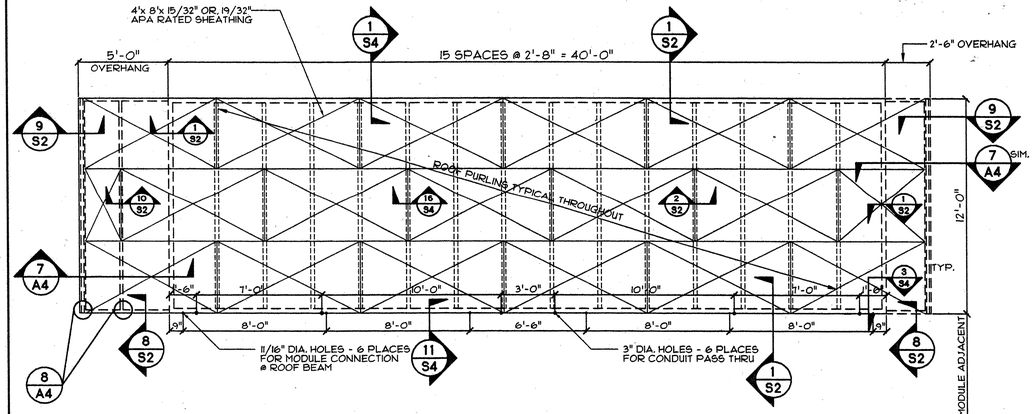
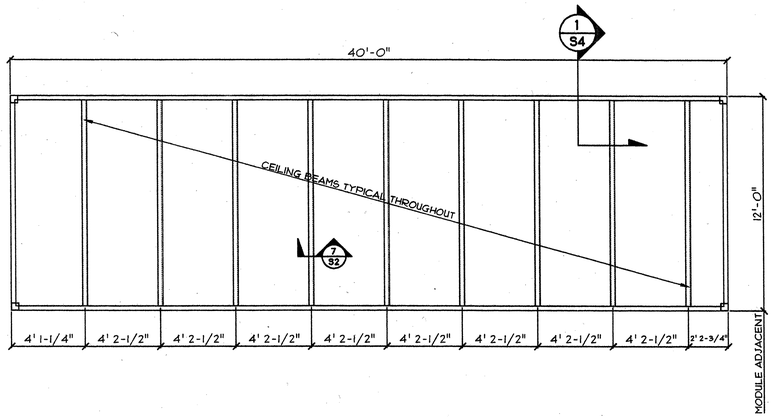
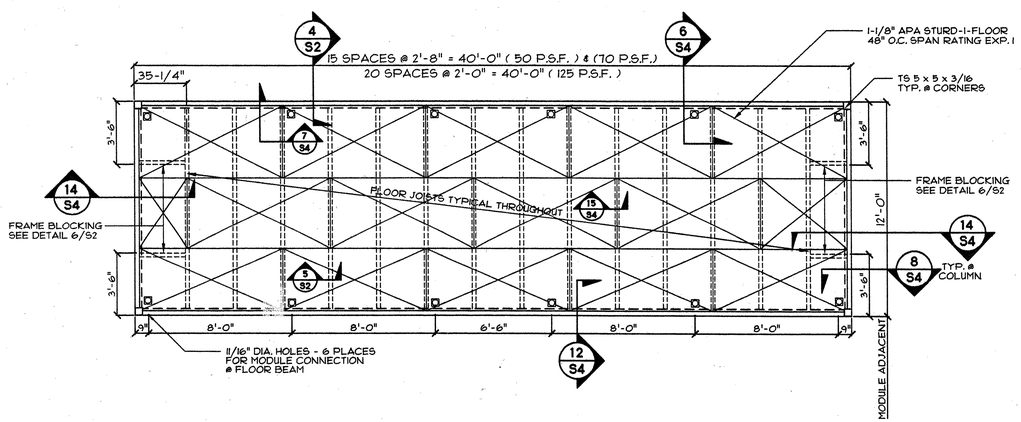


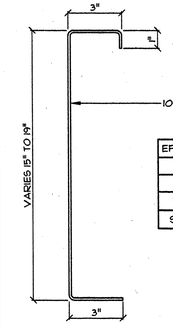
13 ROOF FRAMING PLAN
SCALE: 1/4"=1'-0"



14 CEILING FRAMING PLAN
SCALE: 1/4"=1'-0"

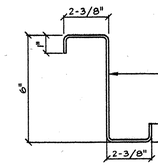


15 FLOOR FRAMING PLAN
SCALE: 1/4"=1'-0"



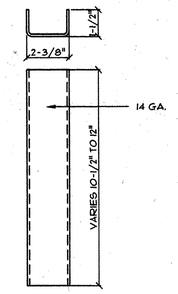
EFFECTIVE SECTION PROPERTIES		
	15"	19"
A	2.87 in^2	3.41 in^2
Ix min.	83.6 in^4	151 in^4
Sx min.	9.99 in^3	14.5 in^3

1 ROOF BEAM SECTION
SCALE: 3"=1'-0"

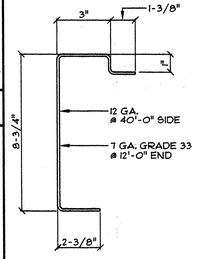


EFFECTIVE SECTION PROPERTIES	
A	.92 in^2
Ix min.	5.11 in^4
Sx min.	1.70 in^3

2 ROOF PURLIN SECTION
SCALE: 3"=1'-0"

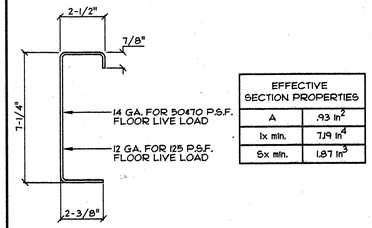


3 ROOF BEAM STIFFENER
SCALE: 3"=1'-0"



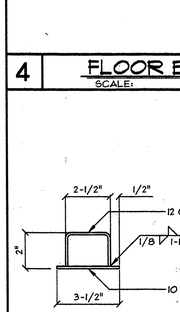
EFFECTIVE SECTION PROPERTIES		
A	1.49 in^2	2.54 in^2
Ix min.	16.2 in^4	27.8 in^4
Sx min.	3.44 in^3	5.86 in^3
GA.	12	7

4 FLOOR BEAM SECTION
SCALE: 3"=1'-0"



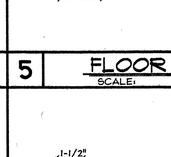
EFFECTIVE SECTION PROPERTIES	
A	.93 in^2
Ix min.	7.19 in^4
Sx min.	1.87 in^3

5 FLOOR JOIST SECTION
SCALE: 3"=1'-0"



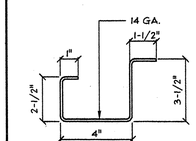
EFFECTIVE SECTION PROPERTIES	
A	1.11 in^2
Ix min.	.79 in^4
Iy min.	1.16 in^4
Sx min.	.63 in^3
Sy min.	.66 in^3

7 CEILING BEAM SECTION
SCALE: 3"=1'-0"



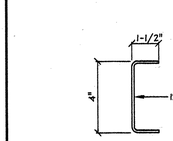
EFFECTIVE SECTION PROPERTIES				
	3"	6"	14"	15"
A	.57in^2	.89in^2	1.74in^2	1.85in^2
Ix min.	.78in^4	4.12in^4	37.1in^4	44.6in^4
Sx min.	.50in^3	1.34in^3	5.30in^3	5.94in^3

8 OVERHANG BEAM
SCALE: 3"=1'-0"



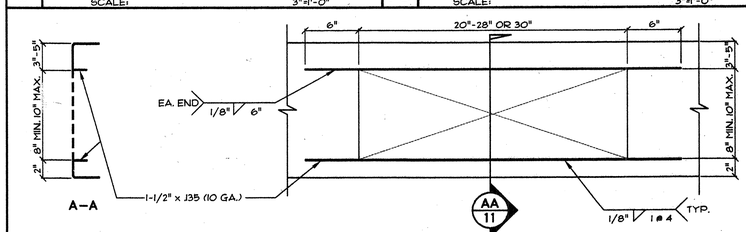
EFFECTIVE SECTION PROPERTIES	
A	.87in^2
Ix min.	1.18in^4
Sx min.	.89in^3

9 GUTTER BEAM SECTION
SCALE: 3"=1'-0"



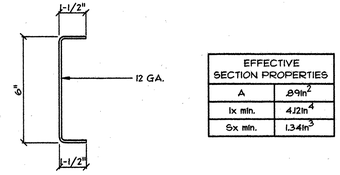
EFFECTIVE SECTION PROPERTIES	
A	.69in^2
Ix min.	1.58in^4
Sx min.	.79in^3

10 INTERMEDIATE CHANNELS
SCALE: 3"=1'-0"



11 HVAC HOLE @ ROOF BEAM
SCALE: 1-1/2"=1'-0"

6 FRAME BLOCKING SECTION
SCALE: 3"=1'-0"



EFFECTIVE SECTION PROPERTIES	
A	.89in^2
Ix min.	4.12in^4
Sx min.	1.34in^3

1. ALL STRUCTURAL STEEL SHALL BE ASTM A570 GRADE 36. UNLESS OTHERWISE NOTED
2. STRUCTURAL STEEL TUBING SHALL BE ASTM A500 GRADE B Fy=46
3. HIGH STRENGTH BOLTS SHALL BE ASTM A325.
4. ALL MACHINE BOLTS SHALL BE ASTM A307.
5. WELDING SHALL BE DONE PER C.B.C. SECTION 2205A10 & AWS D 1.1 4D1.3.
6. WELDING INSPECTION TO BE PER C.B.C. SECTION 223A.5
7. SEE TESTS AND INSPECTIONS REPORT SHEET A0 FOR REQUIREMENTS.
7. LIGHT GAGE METAL & FRAMING THICKNESSES

GAGE	DESIGN THICKNESS	MIN. DELIVERED THICKNESS
7 GA. STEEL	.1793"	.170"
10 GA. STEEL	.1345"	.128"
12 GA. STEEL	.1046"	.0994"
14 GA. STEEL	.0747"	.0710"

8. MINIMUM STEEL THICKNESS SHALL NOT BE LESS THAN 95% OF THE DESIGN THICKNESS
9. PER C.B.C. SECTION 2217A

STEEL SPECIFICATION

1. ALL STRUCTURAL PLYWOOD SHALL BE MANUFACTURED TO C.B.C. STANDARD 23-2 (BASED ON PRODUCT STANDARD PS1-95) AND INSPECTED AND GRADE MARKED AT THE MILL BY AN APPROVED QUALITY CONTROL AGENCY SUCH AS APA OR TECO.
2. ROOF SHEATHING SHALL BE 4'x 8'x 15/32" GRADE MARKED 32/16 SPAN INDEX, EXP. 1 OR 19/32" GRADE MARKED 40/20 SPAN INDEX, EXP.1.
3. FLOOR SHEATHING SHALL BE 4'x 8'x 1-1/8" T & G APA RATED UNDERLAYMENT GRADE DOUGLAS FIR GROUP 1 STURD-I-FLOOR, SPAN RATING = 48".
4. WALL SHEATHING SHALL BE 3/8" MASONITE HARDBOARD SIDING APA EXTERIOR TYPE 303 GROUP 1 M.D.O., EXTERIOR GROUP 11 OR OPTIONAL 5/8" T1-11 APA EXTERIOR SIDING.
5. SEE 2/S3 FOR FASTENER SCHEDULE

SHEATHING / PLYWOOD SPECIFICATION

DIVISION OF THE STATE ARCHITECT

LICENSED ARCHITECT KENNETH H. PUSTELL No. 13495 EXP. 2-20-03 RENEWAL DATE STATE OF CALIFORNIA

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT
APP.NO 104085
IG FLS SS
DATE

PC

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT
02-101236
AC FLS SS
DATE 11/19/02

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
(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, Ω_0=2.8, N_a=1.5, C_a=0.44N_a, N_v=2.0, C_v=.64N_v

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12 APPROVALS

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(209) 521- 1143 FAX (209) 521-1166

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ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215

ROOF-CEILING-FLOOR FRAMING PLANS STRUCTURAL STEEL PROPERTIES - NOTES

REVISION DATE:	BY:
DATE:	

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

S2