

**CITY OF SACRAMENTO**  
1231 I Street, Sacramento, CA 95814

**Permit No: 0011575**  
**Insp Area: 2**

**Site Address: 45 YUBA RIVER CR SAC**  
Parcel No: 031-0320-080

Sub-Type: NOTHR  
Housing (Y/N): N

CONTRACTOR  
YANCEY BROTHERS  
8250 ALPINE AV STE A  
SAC CA 95826

OWNER  
KARNOFSKY HARRY L/LINDA D  
45 YUBA RIVER CR  
SACRAMENTO CA 95831

ARCHITECT

**Nature of Work: NEW 252 SQ FT PATIO COVER**

**CONSTRUCTION LENDING AGENCY:** I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C).

Lender's Name \_\_\_\_\_ Lender's Address \_\_\_\_\_

**LICENSED CONTRACTORS DECLARATION:** I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code and my license is in full force and effect.

License Class C3941 License Number 231701 Date 9-28-00 Contractor Signature [Signature]

**OWNER-BUILDER DECLARATION:** I hereby affirm under penalty of perjury that I am exempt from the contractors License Law for the following reason (Sec. 7031.5, Business and Professions Code; any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars (\$500.00):

\_\_\_\_ I, as a owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business and Professional Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his/her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he/she did not build or improve for the purpose of sale.)

\_\_\_\_ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon PAID who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law).

\_\_\_\_ I am exempt under Sec. \_\_\_\_\_ B & PC for this reason: \_\_\_\_\_

Date \_\_\_\_\_ Owner Signature \_\_\_\_\_

**IN ISSUING THIS BUILDING PERMIT,** the applicant represents, and the city relies on the representation of the applicant verified all measurements and locations shown on the application or accompanying drawings and that the improvement to be constructed does not violate any law or private agreement relating to permissible or prohibited locations for such improvements. This building permit does not authorize any illegal location of any improvement or the violation of any private agreement relating to location of improvements.

I certify that I have read this application and state that all information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction and hereby authorize representative(s) of this city to enter upon the above mentioned property for inspection purposes.

Date 9-28-00 Applicant/Agent Signature [Signature]

**WORKER'S COMPENSATION DECLARATION:** I hereby affirm under penalty of perjury one of the following declarations:

\_\_\_\_ I have and will maintain a certificate of consent to self-insure for workers' compensation as provided for by Section 3700 of the Labor Code, for the performance of work for which the permit is issued.

\_\_\_\_ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier VILLANOVA Policy Number WC3-0983698 Exp Date 11/01/2000

\_\_\_\_ (This section need not be completed if the permit is for \$100 or less) I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date 9-28-00 Applicant Signature [Signature]

**WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST AND ATTORNEY'S FEE.**

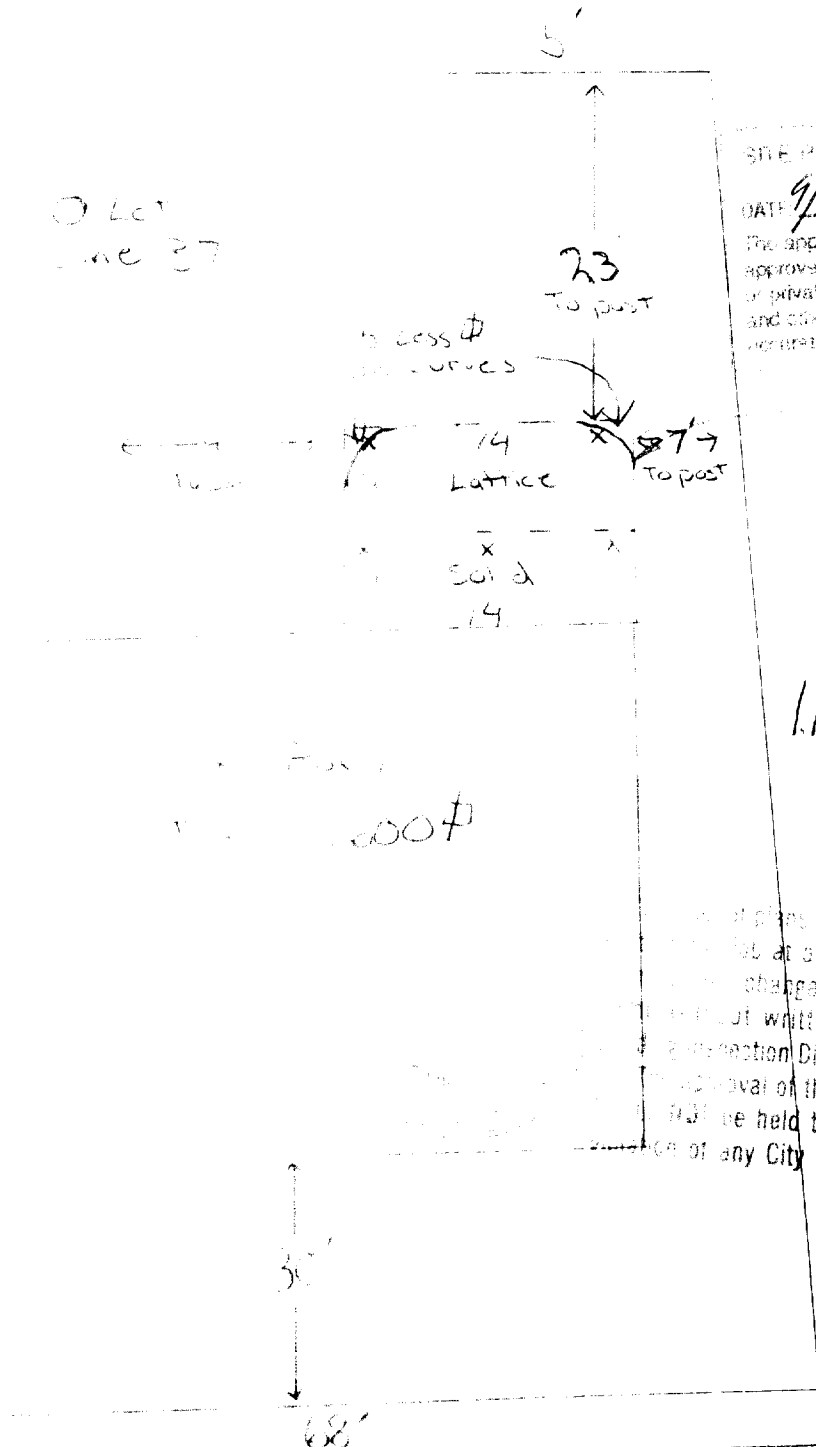
**THIS PERMIT SHALL EXPIRE BY LIMITATION IF WORK IS NOT COMMENCED WITHIN 180 DAYS.**



YANCEY BROS.  
8250-D Alpine Ave.  
Sacramento CA 95826

Karnofsky, Hurr,  
45 Yuba River Dr  
Sac. Ca. 95831

Old  
line 37



SITE PLAN APPROVAL  
DATE 9/28/00  
The approved Site Plan is hereby approved in accordance with the provisions of private agreement and other applicable laws and codes and is subject to the conditions of approval.

Removal of sign  
off corner etc.

110

**ISSUED**

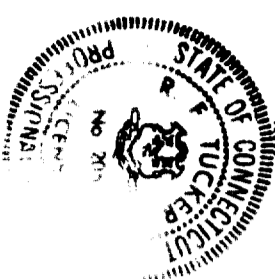
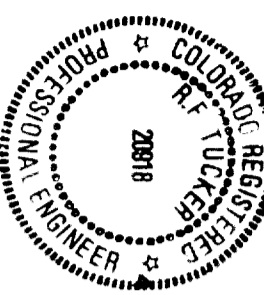
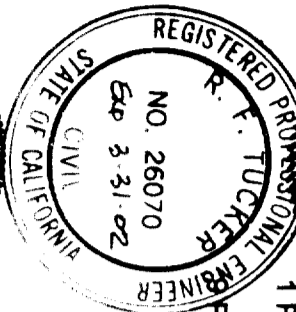
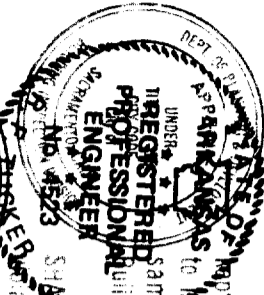
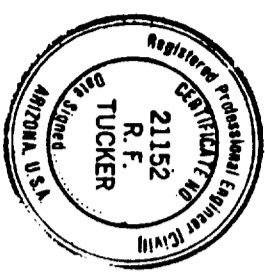
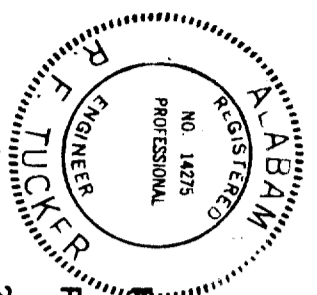
SEP 28 2000

Sacramento Building Division

Approval of this plan is subject to the following conditions:  
1. The applicant shall be held to permit or perform the work shown on this plan in accordance with any City Ordinance or State Law.

Yuba River Dr

ISSUED



FCBO ES EVALUATION REPORT NO ER-2621P

PAGES DRAWING

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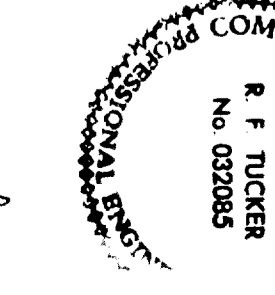
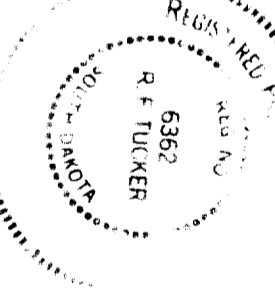
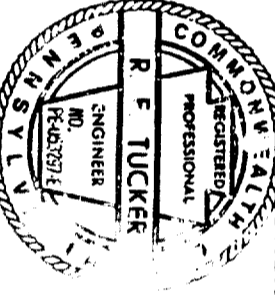
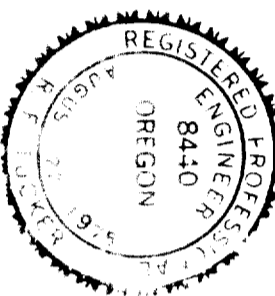
3.0 FREESTANDING AND ATTACHED COMMERCIAL STRUCTURES

4.0 FREESTANDING AND ATTACHED LATTICE PATIO STRUCTURES

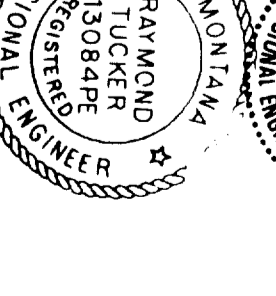
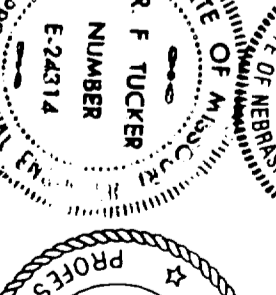
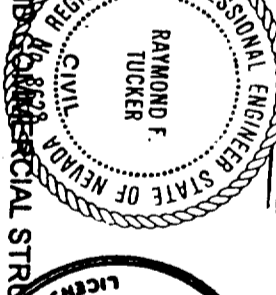
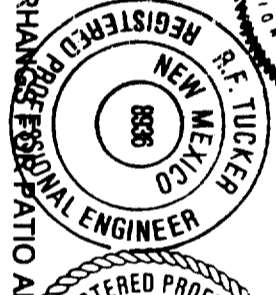
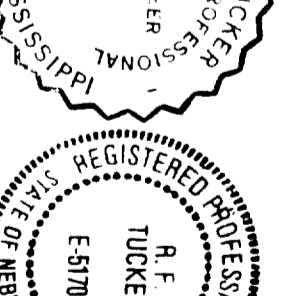
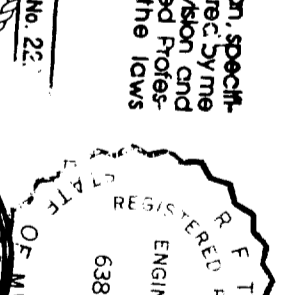
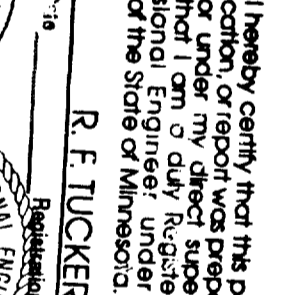
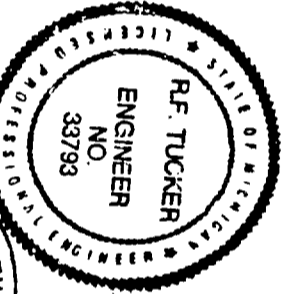
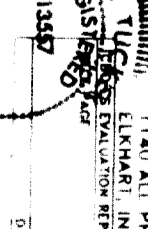
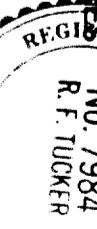
5.0 FREESTANDING AND ATTACHED LATTICE COMMERCIAL STRUCTURES

6.0 COLUMN AND FASTENER REQUIREMENTS FOR COMMERCIAL AND PATIO STRUCTURES

COMPONENT PARTS AND CONNECTION DETAILS



COMPONENT PARTS AND CONNECTION DETAILS FOR COMMERCIAL LATTICE STRUCTURES



I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.

R. F. TUCKER

Registration No. 22

Amerimax BUILDING PRODUCTS, INC. 1140 ALL PRO DRIVE ELKHART, IN 46514 DATE 2/8/2006

**GENERAL NOTES:**

(CONTINUED FROM SHEET NO. 1)

NOTE: EXPOSURE "B" HAS TERRAIN WHICH HAS BUILDINGS, FOREST OR SURFACE IRREGULARITIES COVERING AT LEAST 20 PERCENT OF THE GROUND LEVEL AREA EXTENDING ONE MILE OR MORE FROM THE SITE.  
EXPOSURE "C" HAS TERRAIN WHICH IS FLAT AND GENERALLY OPEN, EXTENDING ONE-HALF MILE OR MORE FROM THE SITE, IN ANY FULL QUADRANT.

5. CONCRETE MIX:  $f_c=2500$  PSI 28 DAYS. APPENDIX CHAPTER 31 DIVISION III PATIO STRUCTURES MAY BE ATTACHED TO CONCRETE SLAB WITHOUT FOOTINGS WHEN THE COLUMN LOAD IS 750# OR LESS. CONCRETE SHALL BE A MINIMUM OF 3.5 INCHES THICK AND NO CRACKS WITHIN 2'-6" OF COLUMNS. COLUMNS SHALL BE SET BACK A MINIMUM OF 4 INCHES FROM EDGE OF SLAB.

6. FOOTINGS HAVE BEEN DESIGNED FOR CLASS 5 SOIL. ALLOWABLE SOIL BEARING PRESSURE OF 1000 POUNDS PER SQUARE FOOT. STRUCTURES SUPPORTED BY FLAGPOLE TYPE COLUMNS ARE NOT ADVERSELY AFFECTED BY A 1/2 INCH LATERAL GROUND MOVEMENT AND FOOTINGS FOR THOSE STRUCTURES HAVE BEEN DESIGNED FOR AN ALLOWABLE LATERAL SOIL BEARING PRESSURE OF 200 POUNDS PER SQUARE FOOT PER FOOT OF DEPTH. SOILS OF ORGANIC CLAYS OR SILTS REQUIRE A SOIL INVESTIGATION AND SPECIALLY DESIGNED FOOTINGS. FILLS MUST BE PLACED UNDER A LABORATORY CONTROLLED COMPACTION SUBJECT TO APPROVAL OF THE BUILDING OFFICIAL.

7. ALUMINUM BOLTS TO BE 2024-T4.

8. COMMERCIAL STRUCTURES MAY BE USED FOR PARKING OF MOTOR VEHICLES PER LOCAL BUILDING CODES. APPENDIX CHAPTER 31 DIVISION III PATIO STRUCTURES MAY NOT BE USED FOR PARKING OF MOTOR VEHICLES.

9. FREESTANDING STRUCTURES SHALL NOT BE ENCLOSED IN ANY MANNER

10. STEEL BOLTS SHALL BE ASTM A-307

11. ALTERNATE ALUMINUM ALLOYS OF EQUAL OR HIGHER STRENGTHS MAY BE USED.

12. STEEL FASTENERS SHALL BE EITHER STAINLESS, GALVANIZED OR DOUBLE CADMIUM PLATED "AN" BOLTS

13. HIGH STRENGTH BOLTS SHALL BE ASTM A-325

14. EMBEDDED COLUMN SURFACES SHALL BE CLEAN AND FREE FROM OILY SURFACES.

15. PATIO STRUCTURES ARE DESIGNED IN ACCORDANCE WITH APPENDIX CHAPTER 31 DIVISION III OF THE UNIFORM BUILDING CODE

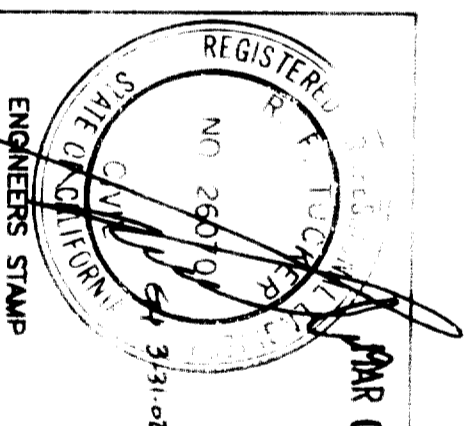
16. HEADER SPLICES SHALL NOT BE LOCATED NEARER TO THE END OF THE STRUCTURE THAN THE FIRST INTERIOR COLUMN

17. PATIO STRUCTURES MAY BE ENCLOSED WITH INSECT SCREENING.  
18. STRUCTURES MAY BE ATTACHED TO RAFTER OVERHANGS PER SCHEDULE.  
19. WHERE ALUMINUM ALLOY PARTS ARE IN CONTACT WITH DISSIMILAR METALS OTHER THAN STAINLESS, ALUMINIZED OR GALVANIZED STEEL, OR ABSORBENT BUILDING MATERIALS, LIKELY TO BE CONTINUOUSLY OR INTERMITTENTLY WET, THE FACING SURFACES SHALL BE PAINTED OR OTHERWISE SEPARATED IN ACCORDANCE WITH U.B.C. SECTION 2004.3.  
20. ALL SCREWS CONFORM TO ANSI B18-6-4 AND SAE J933.

**GENERAL NOTES FOR LATTICE STRUCTURES:**

(PERTAINS TO LATTICE STRUCTURES ON DRAWINGS 97SC02 AND 97LT01 THRU 97LT06.)

- 1. SEE GENERAL NOTES, SHEET 1, SECTION 4 FOR LIVELOAD AND WIND LOADS
- 2. OPEN LATTICE STRUCTURES SHALL NOT BE ENCLOSED



**Amerimax**  
Engineering Services  
1140 All Pro Drive  
Eden, IN 46314

ICBO ES EVALUATION REPORT NO. ER-2621P

DATE	REVISION	DATE	REVISION
2/8/2000	97GN02		

SCALE: NONE  
DRAWING OR PART: GENERAL NOTES  
DATE: 2/8/2000  
SHEET: 2 OF 2



1.0 ROOF PANEL SPANS AND OVERHANGS FOR PATIO AND COMMERCIAL STRUCTURES

3 1/2" x 12" ROOF PANEL DESIGN  
SPAN FOR PATIO STRUCTURES

LIVE LOAD (PSF)	PANEL TYPE	12' HEIGHT		
		70 MPH	80 MPH	OVER HANG
10	0.018	16'-2"	16'-2"	7'-10"
20	0.024	18'-4"	18'-4"	8'-7"
30	0.032	20'-4"	20'-4"	9'-6"
40	0.036	21'-4"	21'-4"	9'-10"
60	0.048	25'-0"	25'-0"	11'-11"

2 1/2" x 6" ROOF PANEL DESIGN  
SPAN FOR PATIO STRUCTURES

LIVE LOAD (PSF)	PANEL TYPE	12' HEIGHT		
		70 MPH	80 MPH	OVER HANG
10	0.018	13'-5"	13'-5"	6'-5"
20	0.024	14'-5"	14'-4"	6'-11"
30	0.032	16'-3"	16'-3"	7'-10"
40	0.036	18'-4"	18'-4"	8'-7"
60	0.048	21'-4"	21'-4"	10'-11"

3 1/2" x 12" PANEL ALLOW. DESIGN SPAN  
FOR COMMERCIAL STRUCTURES

LIVE LOAD (PSF)	PANEL TYPE	EXP. B EXPOSURE C			MAX OVER HANG
		70 MPH	80 MPH	90 MPH	
20	0.018	11'-11"	11'-11"	11'-5"	5'-4"
30	0.024	13'-6"	13'-6"	13'-2"	6'-5"
40	0.032	15'-11"	15'-11"	15'-6"	7'-6"
50	0.036	16'-11"	16'-11"	16'-7"	7'-9"
60	0.048	18'-4"	18'-4"	18'-7"	9'-2"

2 1/2" x 6" ROOF PANEL ALLOW. SPAN FOR COMMERCIAL STRUCTURES

LIVE LOAD (PSF)	PANEL TYPE	EXP. B EXPOSURE C			MAX OVER HANG
		70 MPH	80 MPH	90 MPH	
20	0.018	9'-4"	9'-4"	9'-7"	4'-6"
30	0.024	10'-5"	10'-5"	10'-2"	4'-10"
40	0.032	11'-4"	11'-4"	11'-6"	5'-6"
50	0.036	14'-1"	14'-1"	13'-10"	6'-8"
60	0.048	15'-1"	15'-1"	14'-11"	7'-1"

2 1/2" x 12" ROOF PANEL ALLOWABLE SPAN  
FOR COMMERCIAL STRUCTURES

LIVE LOAD (PSF)	PANEL TYPE	EXP. B EXPOSURE C			MAX OVER HANG
		70 MPH	80 MPH	90 MPH	
20	0.018	8'-2"	8'-2"	8'-7"	4'-1"
30	0.024	9'-5"	9'-5"	10'-2"	4'-10"
40	0.032	10'-7"	10'-7"	10'-7"	5'-1"
50	0.036	12'-6"	12'-6"	12'-6"	6'-1"
60	0.048	13'-7"	13'-7"	13'-7"	6'-7"

PANEL TO PANEL FASTENING  
#10 S&S FASTENER SPACING

PANEL TYPE	WIND LOAD EXPOSURE C		
	70 MPH	80 MPH	90 MPH
0.018	8"	5"	4'-8"
0.024	11"	5'-6"	3'-11"
0.032	14"	6'-8"	5'-2"
0.036	14"	6'-8"	5'-2"
0.048	14"	6'-8"	5'-2"

2 1/2" x 18" STRUCTURAL PANEL  
FOR PATIO COVERS

LIVE LOAD (PSF)	PANEL TYPE	12' HEIGHT		
		70 MPH	80 MPH	OVER HANG
10	0.018	12'-4"	11'-11"	5'-8"
20	0.024	8'-10"	8'-10"	4'-3"
30	0.032	7'-4"	7'-4"	3'-10"
40	0.036	7'-4"	7'-4"	3'-4"
60	0.048	4'-10"	4'-10"	2'-5"

2 1/2" x 12" ROOF PANEL DESIGN  
SPAN FOR PATIO STRUCTURES

LIVE LOAD (PSF)	PANEL TYPE	12' HEIGHT		
		70 MPH	80 MPH	OVER HANG
10	0.018	12'-4"	12'-0"	5'-10"
20	0.024	14'-5"	14'-5"	6'-7"
30	0.032	15'-6"	15'-6"	7'-5"
40	0.036	16'-5"	16'-5"	7'-8"
60	0.048	18'-5"	18'-5"	9'-2"

2 1/2" x 12" STEEL PANEL ALLOW. SPAN  
FOR COMMERCIAL STRUCTURES

LIVE LOAD (PSF)	PANEL TYPE	EXP. B EXPOSURE C			MAX OVER HANG
		70 MPH	80 MPH	90 MPH	
20	0.018	8'-4"	8'-4"	8'-4"	4'-4"
30	0.024	10'-11"	10'-11"	10'-11"	4'-0"
40	0.032	10'-0"	10'-0"	10'-0"	3'-4"
50	0.036	10'-0"	10'-0"	10'-0"	3'-4"
60	0.048	8'-4"	8'-4"	8'-4"	2'-11"

ALT. 2 1/2" x 12" PANEL ALLOW.  
SPAN FOR PATIO STRUCTURES

LIVE LOAD (PSF)	PANEL TYPE	12' HEIGHT		
		70 MPH	80 MPH	OVER HANG
10	0.018	11'-4"	11'-11"	5'-4"
20	0.024	14'-6"	14'-6"	6'-8"
30	0.032	15'-9"	15'-9"	7'-2"
40	0.036	16'-11"	16'-11"	7'-8"
60	0.048	18'-11"	18'-11"	9'-2"

ALT. 2 1/2" x 12" ROOF PANEL ALLOW  
SPAN FOR COMMERCIAL STRUCTURES

LIVE LOAD (PSF)	PANEL TYPE	EXP. B EXPOSURE C			MAX OVER HANG
		70 MPH	80 MPH	90 MPH	
20	0.018	8'-2"	8'-2"	7'-11"	3'-8"
30	0.024	10'-11"	10'-11"	10'-7"	5'-1"
40	0.032	12'-6"	12'-6"	12'-6"	5'-8"
50	0.036	13'-6"	13'-6"	13'-6"	6'-2"
60	0.048	15'-6"	15'-6"	15'-6"	6'-8"

2 1/2" x 18" STEEL PANEL DESIGN  
SPANS FOR PATIO STRUCTURES

LIVE LOAD (PSF)	PANEL TYPE	12' HEIGHT		
		70 MPH	80 MPH	OVER HANG
10	0.0120	14'-8"	14'-8"	5'-1"
20	0.0148	16'-2"	16'-2"	5'-5"
30	0.0170	11'-8"	11'-8"	4'-4"
40	0.0148	11'-8"	11'-8"	4'-4"
60	0.0148	10'-4"	10'-4"	3'-4"

2 1/2" x 12" ROOF PANEL DESIGN  
SPAN FOR PATIO STRUCTURES

LIVE LOAD (PSF)	PANEL TYPE	12' HEIGHT		
		70 MPH	80 MPH	OVER HANG
10	0.018	14'-8"	14'-8"	5'-1"
20	0.024	16'-2"	16'-2"	5'-5"
30	0.032	11'-8"	11'-8"	4'-4"
40	0.036	11'-8"	11'-8"	4'-4"
60	0.048	10'-4"	10'-4"	3'-4"

2 1/2" x 18" ROOF PANEL ALLOW. DESIGN SPANS  
FOR COMM. STRUCTURES - ROOF NOT 18'

LIVE LOAD (PSF)	PANEL TYPE	EXP. B EXPOSURE C			MAX OVER HANG
		70 MPH	80 MPH	90 MPH	
20	0.018	8'-0"	8'-0"	3'-10"	4'-0"
30	0.024	10'-5"	10'-5"	6'-10"	4'-1"
40	0.032	11'-8"	11'-8"	8'-0"	4'-1"
50	0.036	12'-2"	12'-2"	8'-0"	3'-8"
60	0.048	14'-8"	14'-8"	8'-0"	3'-5"

ALT. 2 1/2" x 18" PANEL ALLOW.  
SPAN FOR PATIO STRUCTURES

LIVE LOAD (PSF)	PANEL TYPE	12' HEIGHT		
		70 MPH	80 MPH	OVER HANG
10	0.018	11'-4"	11'-11"	5'-4"
20	0.024	14'-6"	14'-6"	6'-8"
30	0.032	15'-9"	15'-9"	7'-2"
40	0.036	16'-11"	16'-11"	7'-8"
60	0.048	18'-11"	18'-11"	9'-2"

ALT. 2 1/2" x 18" ROOF PANEL ALLOW  
SPAN FOR COMMERCIAL STRUCTURES

LIVE LOAD (PSF)	PANEL TYPE	EXP. B EXPOSURE C			MAX OVER HANG
		70 MPH	80 MPH	90 MPH	
20	0.018	8'-2"	8'-2"	7'-11"	3'-8"
30	0.024	10'-11"	10'-11"	10'-7"	5'-1"
40	0.032	12'-6"	12'-6"	12'-6"	5'-8"
50	0.036	13'-6"	13'-6"	13'-6"	6'-2"
60	0.048	15'-6"	15'-6"	15'-6"	6'-8"

2 1/2" x 18" ROOF PANEL DESIGN  
SPAN FOR PATIO STRUCTURES

LIVE LOAD (PSF)	PANEL TYPE	12' HEIGHT		
		70 MPH	80 MPH	OVER HANG
10	0.0120	14'-8"	14'-8"	5'-1"
20	0.0148	16'-2"	16'-2"	5'-5"
30	0.0170	11'-8"	11'-8"	4'-4"
40	0.0148	11'-8"	11'-8"	4'-4"
60	0.0148	10'-4"	10'-4"	3'-4"

2 1/2" x 12" ROOF PANEL DESIGN  
SPAN FOR PATIO STRUCTURES

LIVE LOAD (PSF)	PANEL TYPE	12' HEIGHT		
		70 MPH	80 MPH	OVER HANG
10	0.018	14'-8"	14'-8"	5'-1"
20	0.024	16'-2"	16'-2"	5'-5"
30	0.032	11'-8"	11'-8"	4'-4"
40	0.036	11'-8"	11'-8"	4'-4"
60	0.048	10'-4"	10'-4"	3'-4"

2 1/2" x 18" ROOF PANEL ALLOW. DESIGN SPANS  
FOR COMM. STRUCTURES - ROOF NOT 18'

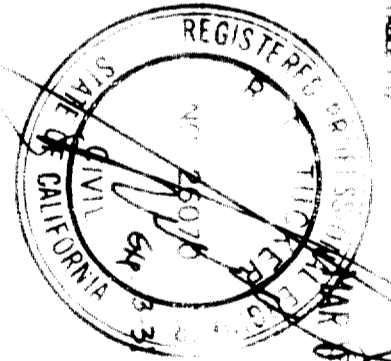
LIVE LOAD (PSF)	PANEL TYPE	EXP. B EXPOSURE C			MAX OVER HANG
		70 MPH	80 MPH	90 MPH	
20	0.018	8'-0"	8'-0"	3'-10"	4'-0"
30	0.024	10'-5"	10'-5"	6'-10"	4'-1"
40	0.032	11'-8"	11'-8"	8'-0"	4'-1"
50	0.036	12'-2"	12'-2"	8'-0"	3'-8"
60	0.048	14'-8"	14'-8"	8'-0"	3'-5"

ALT. 2 1/2" x 18" PANEL ALLOW.  
SPAN FOR PATIO STRUCTURES

LIVE LOAD (PSF)	PANEL TYPE	12' HEIGHT		
		70 MPH	80 MPH	OVER HANG
10	0.018	11'-4"	11'-11"	5'-4"
20	0.024	14'-6"	14'-6"	6'-8"
30	0.032	15'-9"	15'-9"	7'-2"
40	0.036	16'-11"	16'-11"	7'-8"
60	0.048	18'-11"	18'-11"	9'-2"

ALT. 2 1/2" x 18" ROOF PANEL ALLOW  
SPAN FOR COMMERCIAL STRUCTURES

LIVE LOAD (PSF)	PANEL TYPE	EXP. B EXPOSURE C			MAX OVER HANG
		70 MPH	80 MPH	90 MPH	
20	0.018	8'-2"	8'-2"	7'-11"	3'-8"
30	0.024	10'-11"	10'-11"	10'-7"	5'-1"
40	0.032	12'-6"	12'-6"	12'-6"	5'-8"
50	0.036	13'-6"	13'-6"	13'-6"	6'-2"
60	0.048	15'-6"	15'-6"	15'-6"	6'-8"

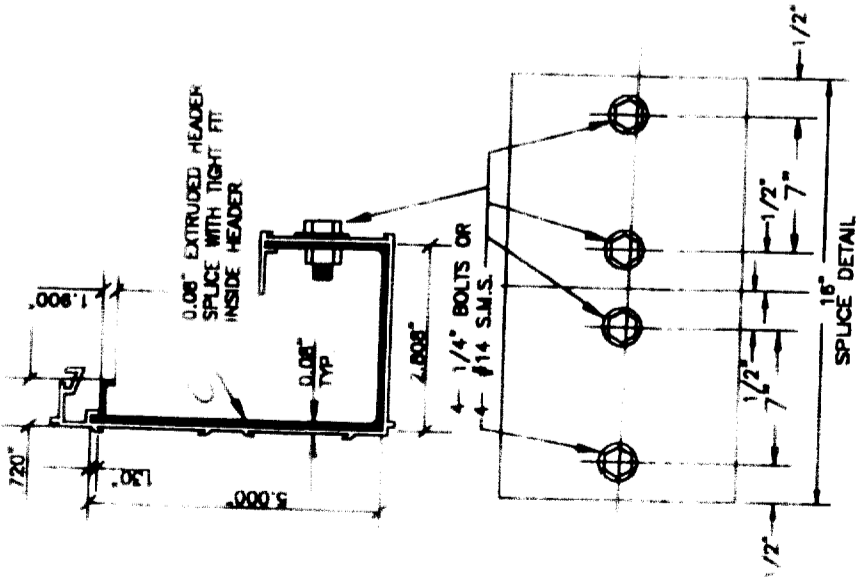


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STATE OF CALIFORNIA  
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DATE 2/8/2000

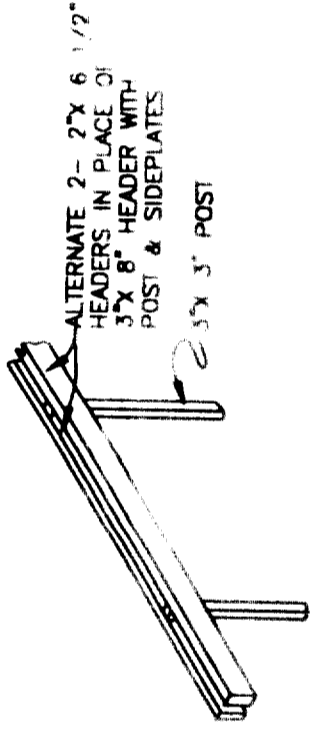
**Amerimax**  
BUILDING PRODUCTS, INC.  
1140 ALL PRO DRIVE  
ELKHART, IN 46514  
ICBO ES EVALUATION REPORT ER-2621P  
ROOF PANEL SPANS FOR PATIO AND  
COMMERCIAL STRUCTURES  
PANEL SPANS FOR ALT. 2.5" PAN FOR  
PATIO AND COMMERCIAL STRUCTURES  
SHEET 1 OF 8 DATE 2/8/2000



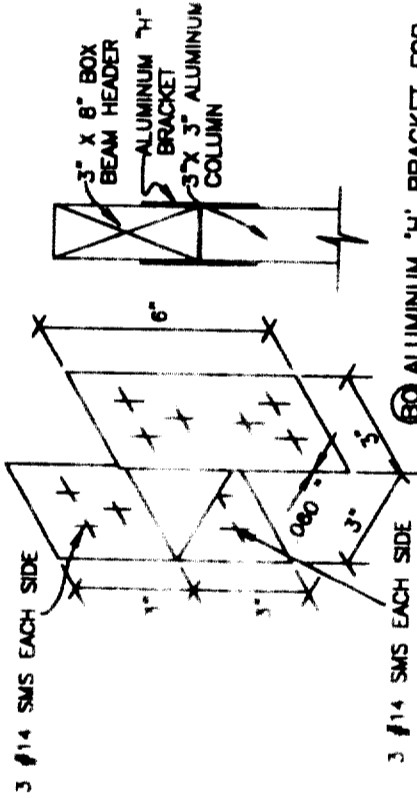




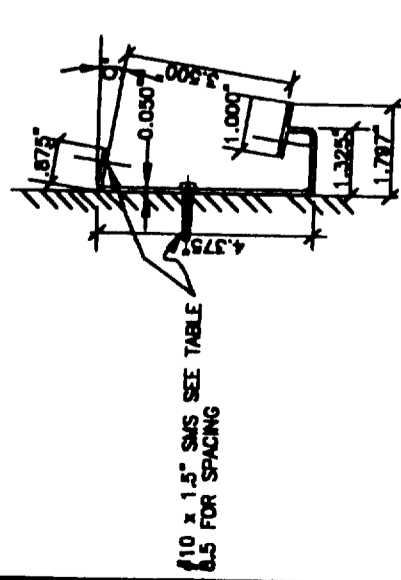
BJ 5 1/2" EXTRUDED HEADER SPLICE  
(6061-T6 ALUM. ALLOY)



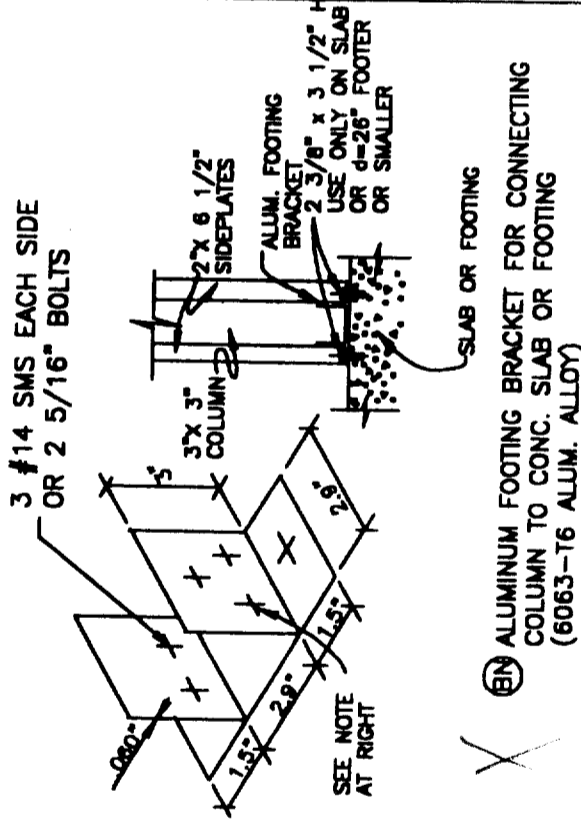
BK ALTERNATE 2-2" x 6 1/2" HEADERS



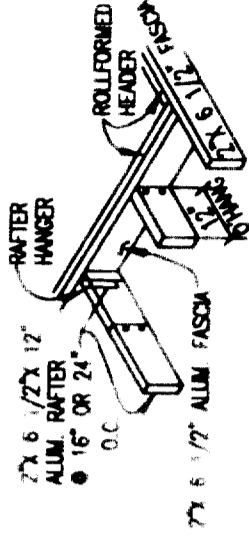
BO ALUMINUM 'H' BRACKET FOR  
CONNECTING COLUMN TO HEADER  
(6063-T6 ALUM. ALLOY)



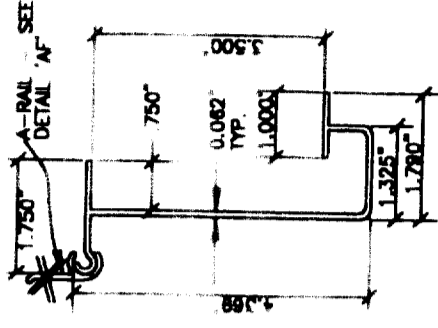
BM 3 1/2" "G" RAIL  
(6063-T6 ALUM. ALLOY)



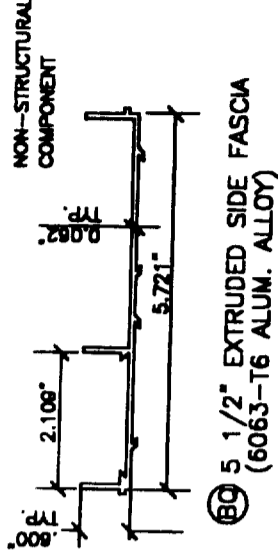
BN ALUMINUM FOOTING BRACKET FOR CONNECTING  
COLUMN TO CONC. SLAB OR FOOTING  
(6063-T6 ALUM. ALLOY)



BL ALTERNATE-DECORATIVE  
FASCIA TRIM



BP 3 1/2" "J" HANGER  
(6063-T6 ALUM. ALLOY)



BQ 5 1/2" EXTRUDED SIDE FASCIA  
(6063-T6 ALUM. ALLOY)

DRAWN BY: B-2000E

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DATE

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DATE

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DATE

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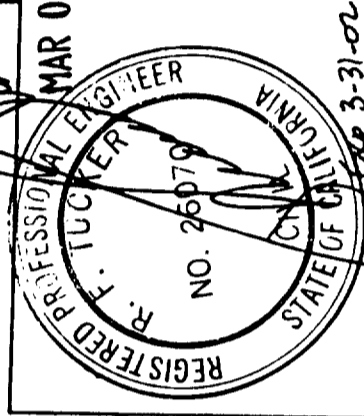


Engineering Services  
1140 All Pro Drive  
Elkhart, IN 46514

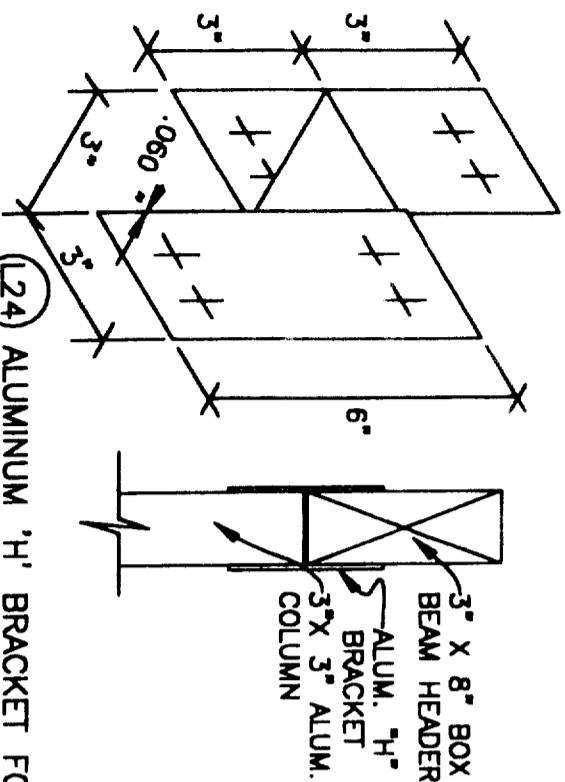
DRAWN BY: KG  
SCALE: NONE  
DATE: 2/8/2000

ICBO ES EVALUATION REPORT NO. ER-2621P  
DRAWING OR PART NAME: COMPONENT PARTS & CONNECTION DETAILS  
DRAWING OR PART NUMBER: 97CD09

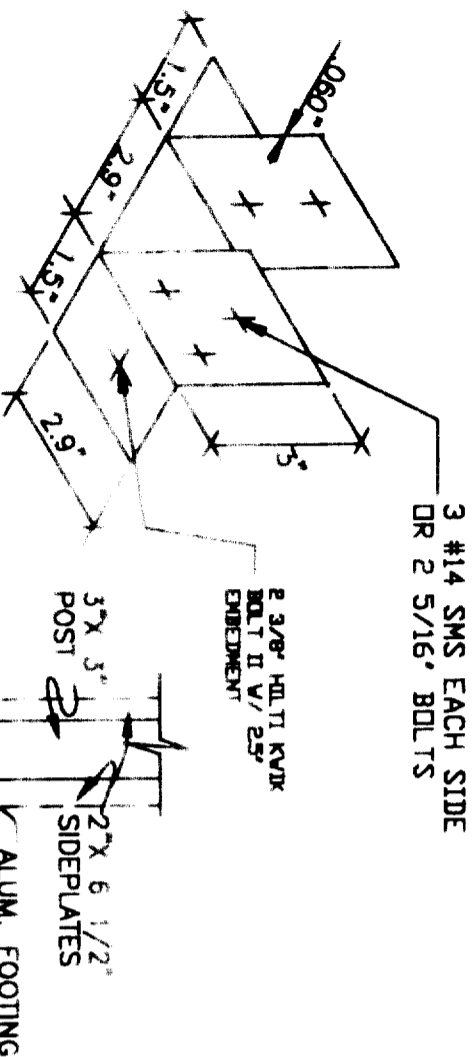
DATE: 2/8/2000  
SHEET: 9 OF 9



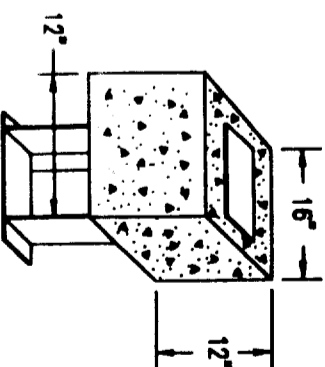
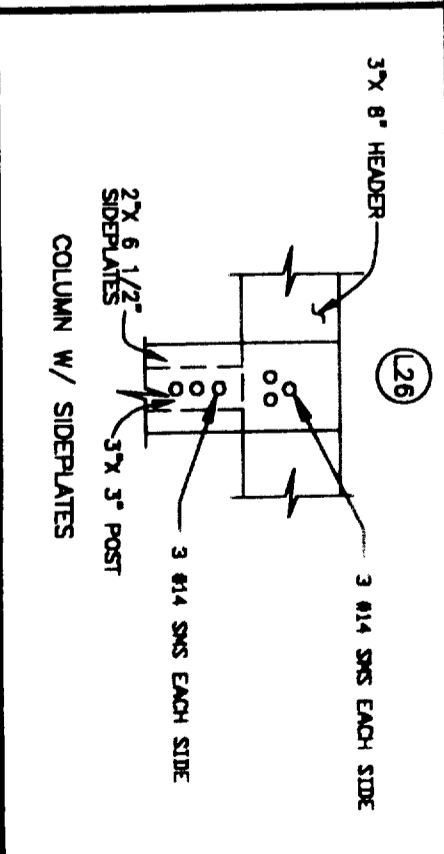
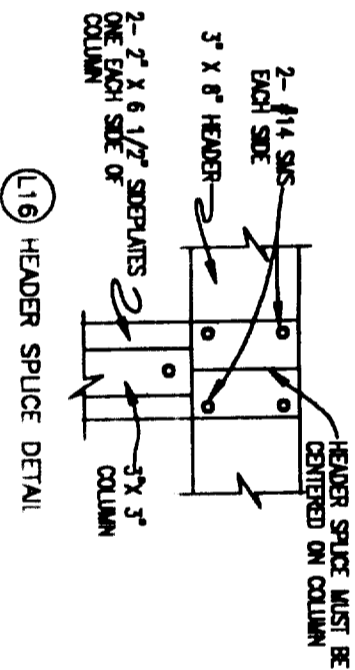
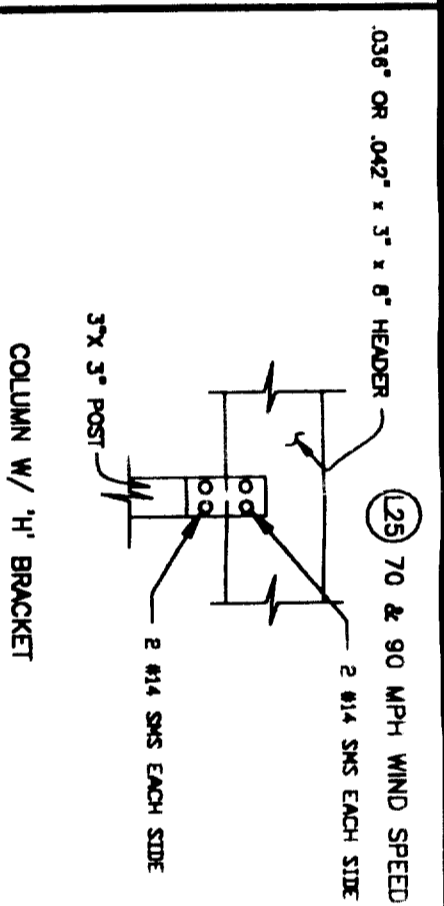
ENGINEERS STAMP



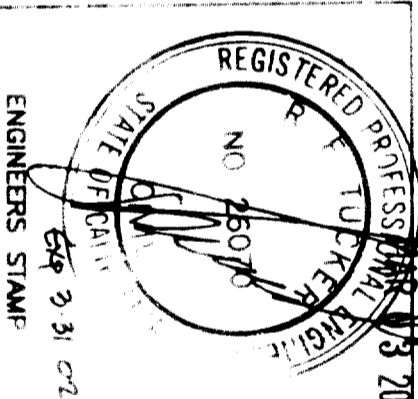
(L24) ALUMINUM 'H' BRACKET FOR CONNECTING COLUMN TO HEADER (6063-T6 ALUM. ALLOY)



(L27) ALUMINUM FOOTING BRACKET FOR CONNECTING POST TO CONC SLAB OR FOOTING (6063-T6 ALUM ALLOY)

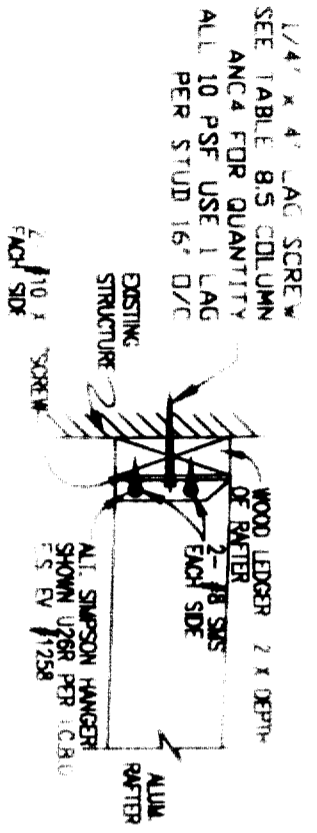
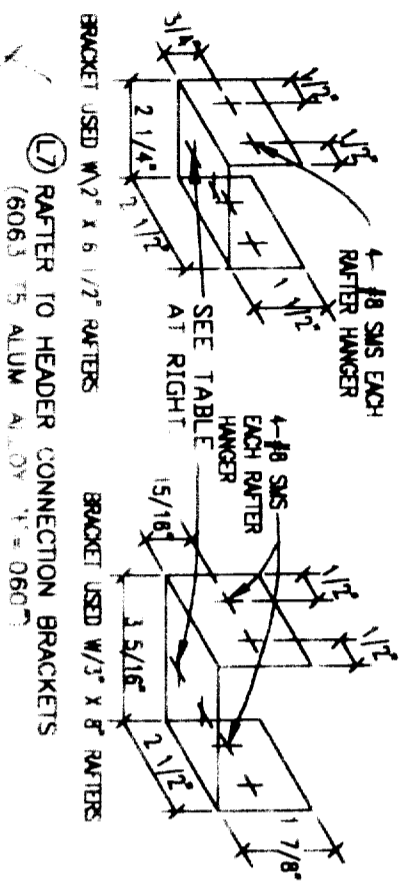
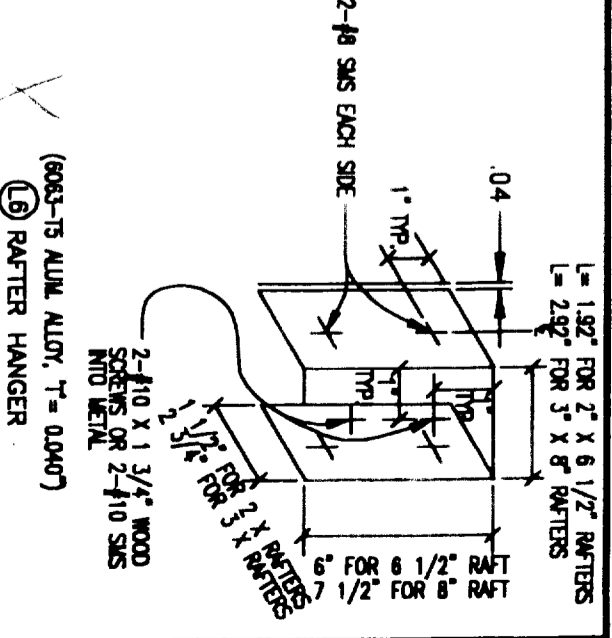
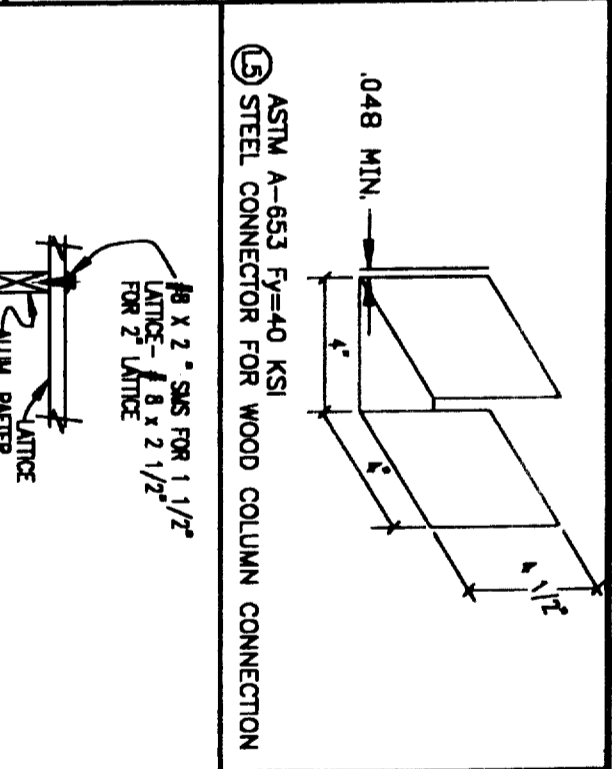
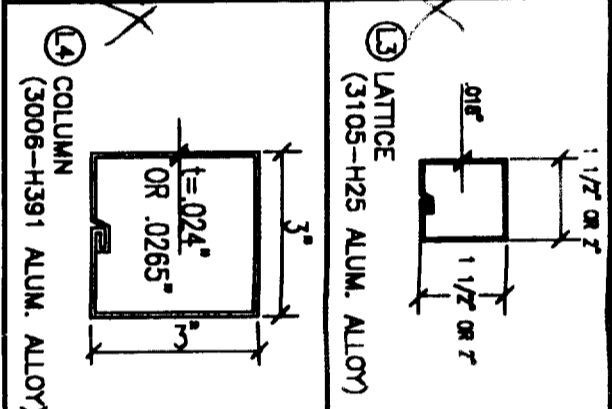
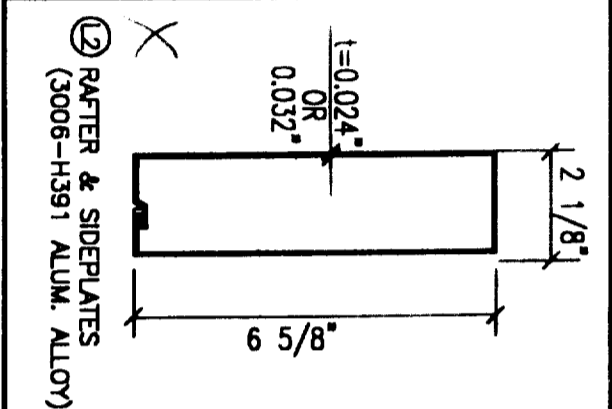
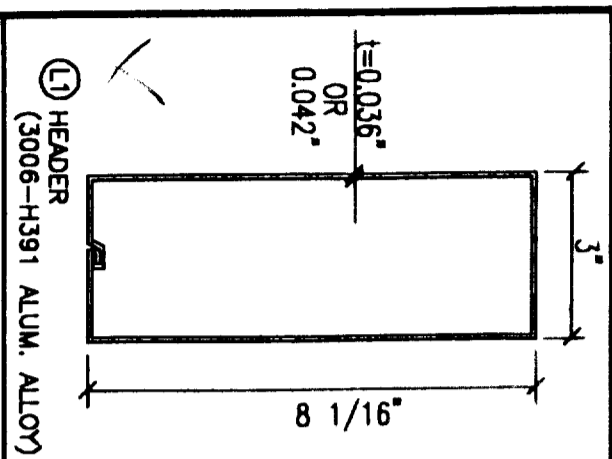


(L25) SAFETY STAKE IN CONCRETE FOOTING (USE ONLY FOR ATTACHED LATTICE PANO STRUCTURES)



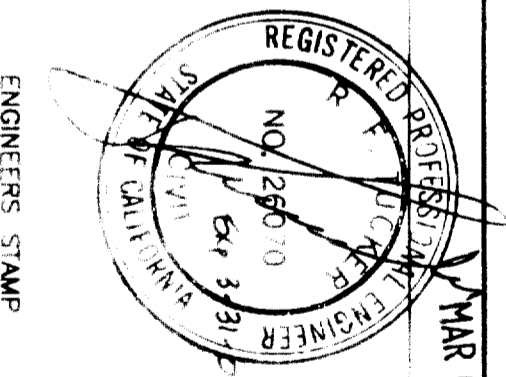
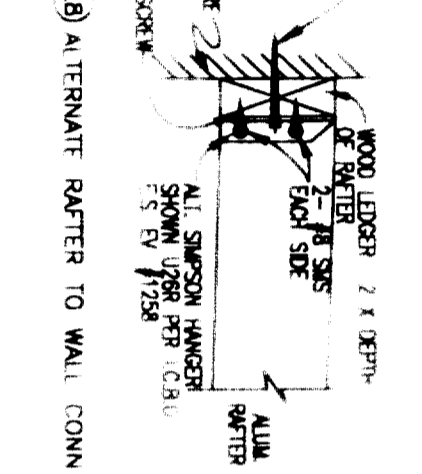
DATE	REVISION	DATE	REVISION
2/8/2000			

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 1140 All Pro Drive  
 Elkhart, IN 46514  
 DRAWING NO. 97L104  
 SHEET 4 OF 4



HEADER GAGE	HEADER	DETAIL	MAXIMUM WIND LOAD	MAX TRIB	FASTENING
.042	3' x 8'	L1	90 MPH PATID	6'	2-#8 SMS EACH BRKT.
.036	3' x 8'	L1	90 MPH PATID	5'	2-#8 SMS EACH BRKT
.032	DBL 2 x 6	L11	90 MPH PATID	10'	3-#8 SMS EACH BRKT
.094	8' STEEL C	L23	90 MPH EXP C	22'	2-#14 SMS EACH BRKT
				10'	2-#14 SMS EACH BRKT

1/4" x 4" LAG SCREW  
SEE TABLE B5 COLUMN  
ANCA FOR QUANTITY  
ALL 10 PSF USE 1 LAG  
PER STUD 16' O/C



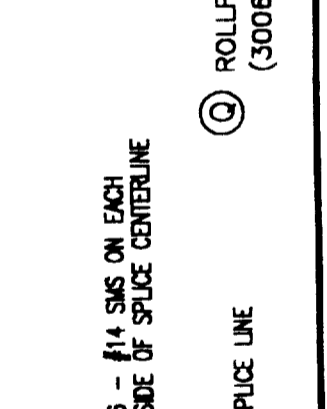
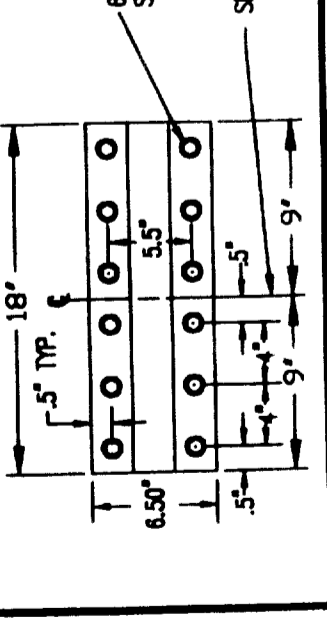
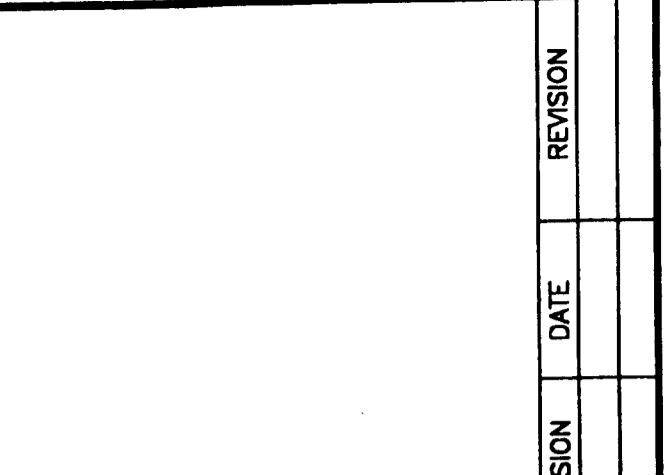
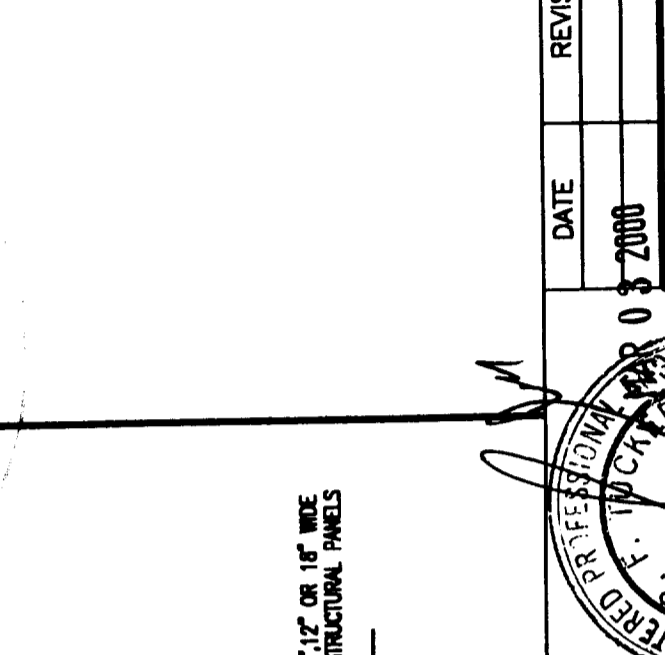
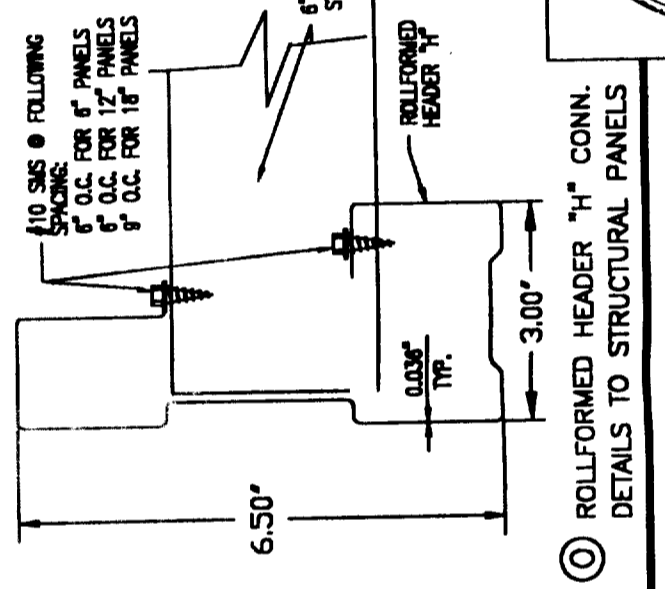
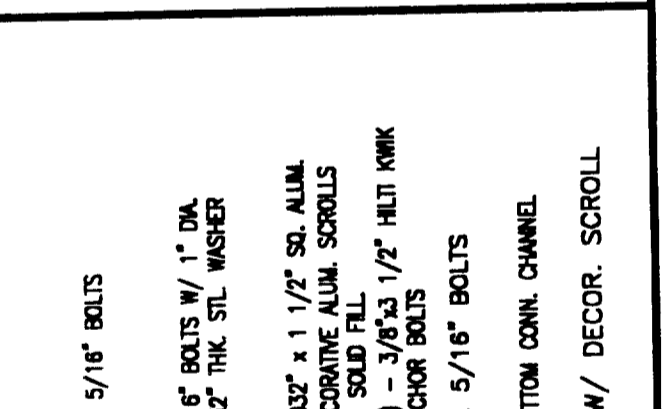
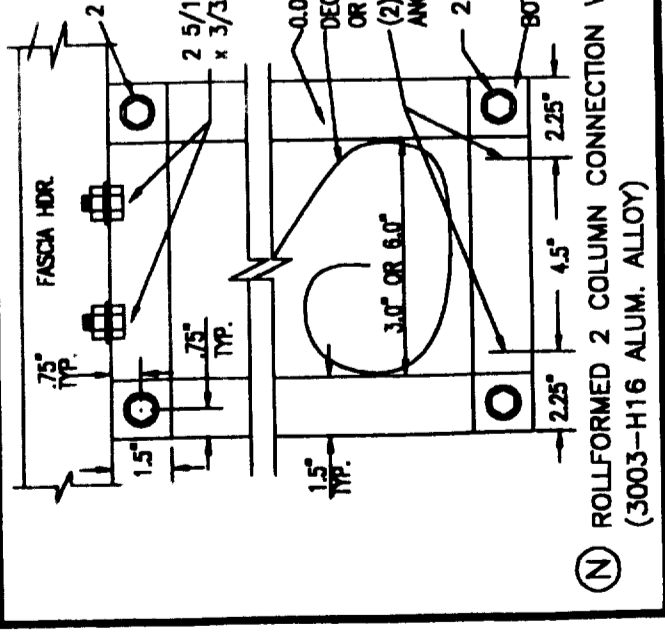
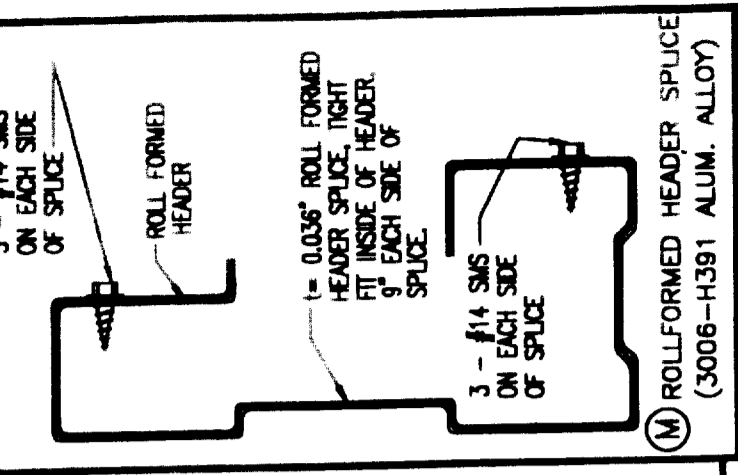
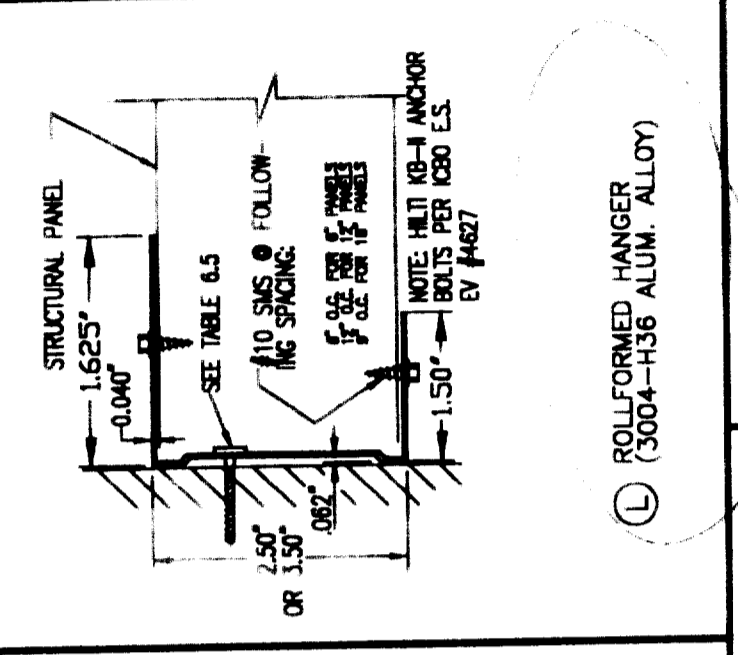
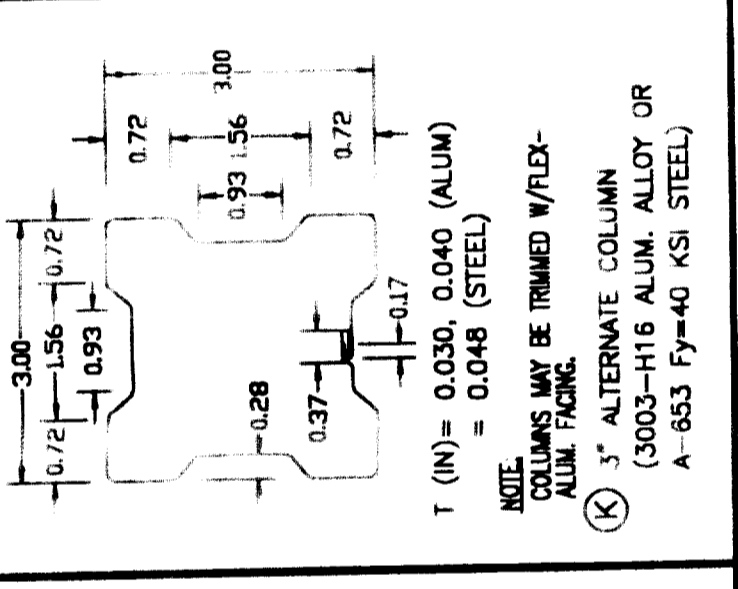
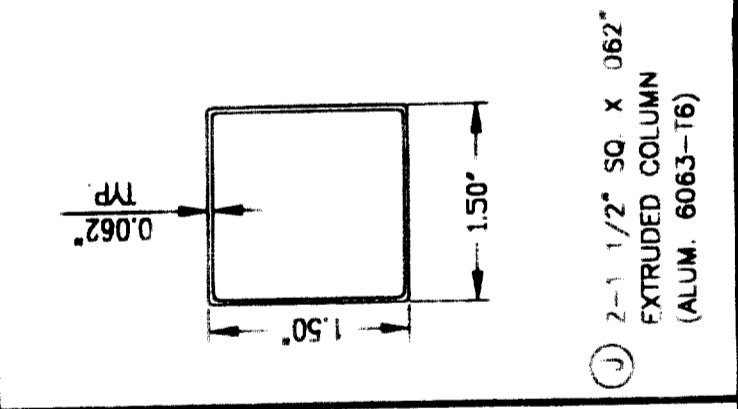
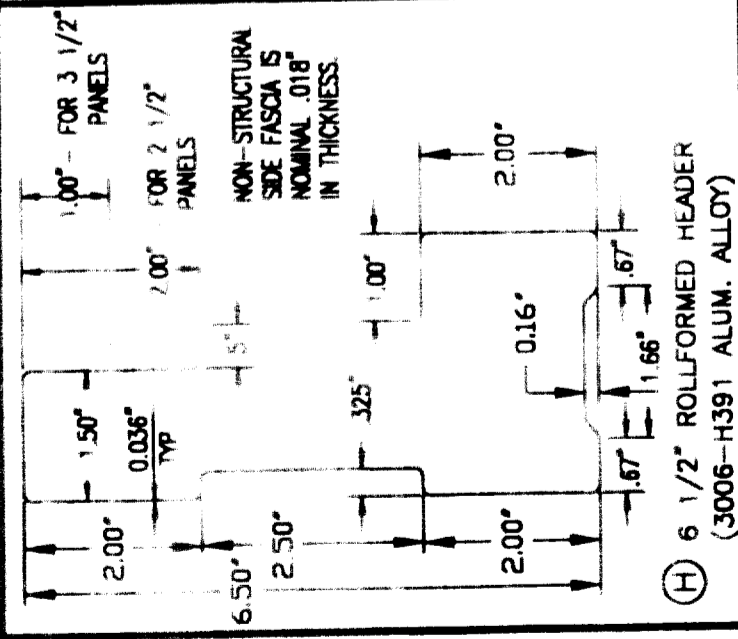
**Amerimax**  
Engineering Services  
1140 All Pro Drive  
Elkport IN 46514

ICBO ES EVALUATION REPORT NO. FR-2621P

DATE: 2/8/2000

DRAWING OR PART NUMBER: 97LT01

SHEET: 1 OF 4



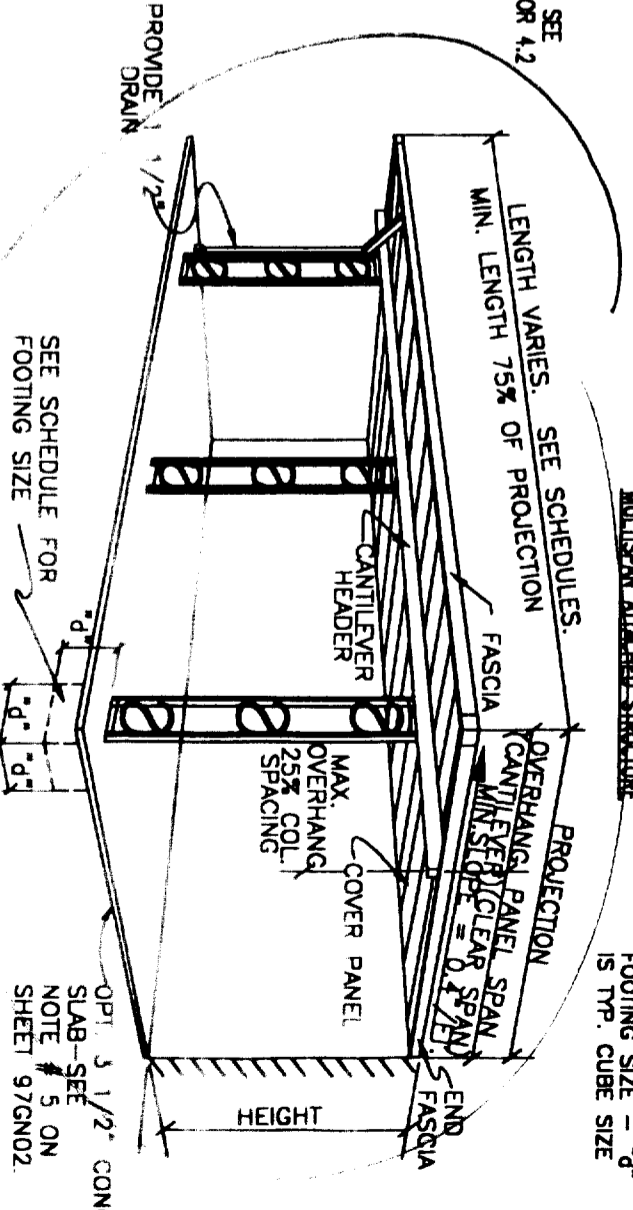
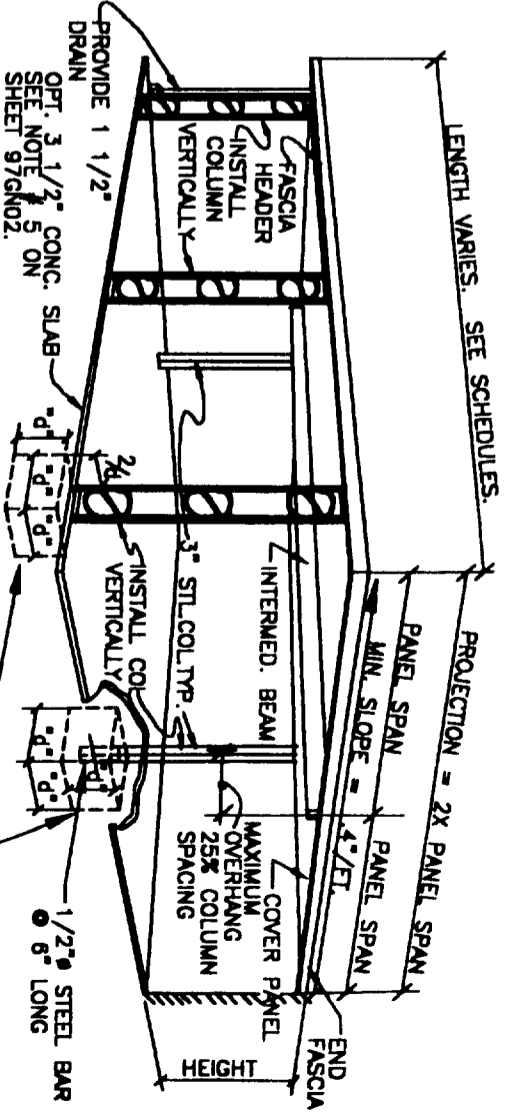
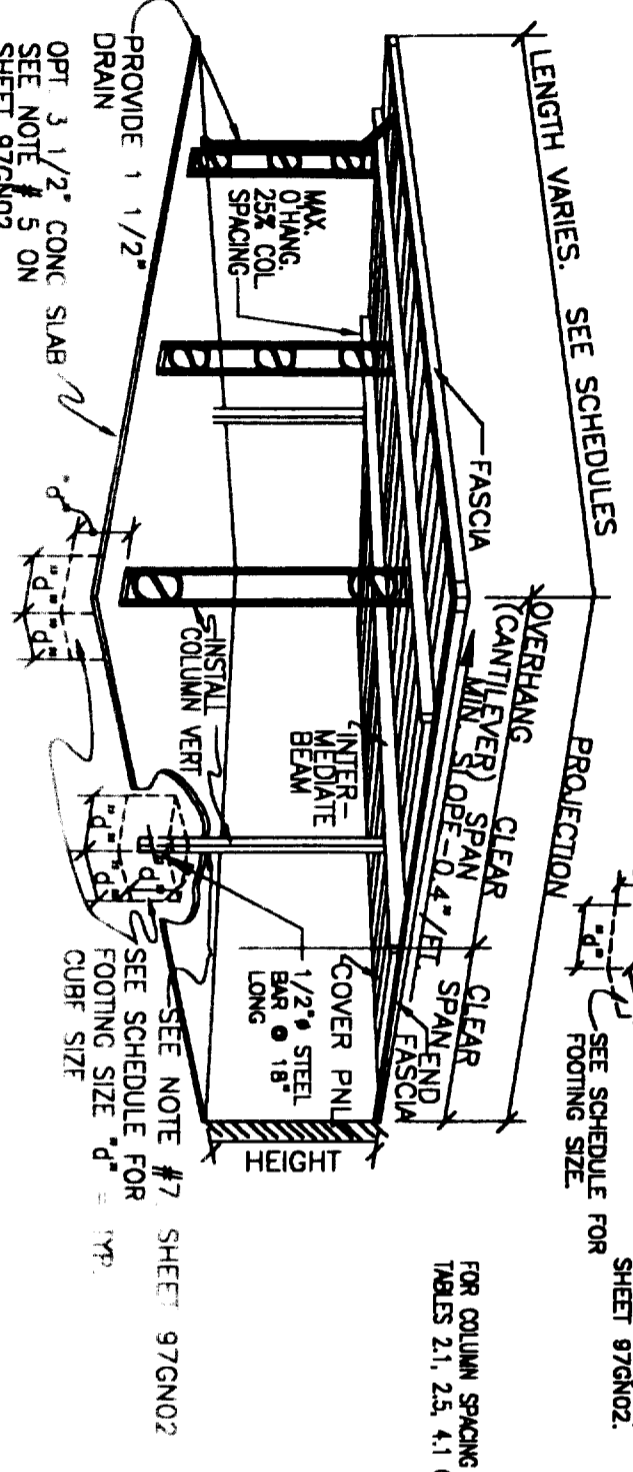
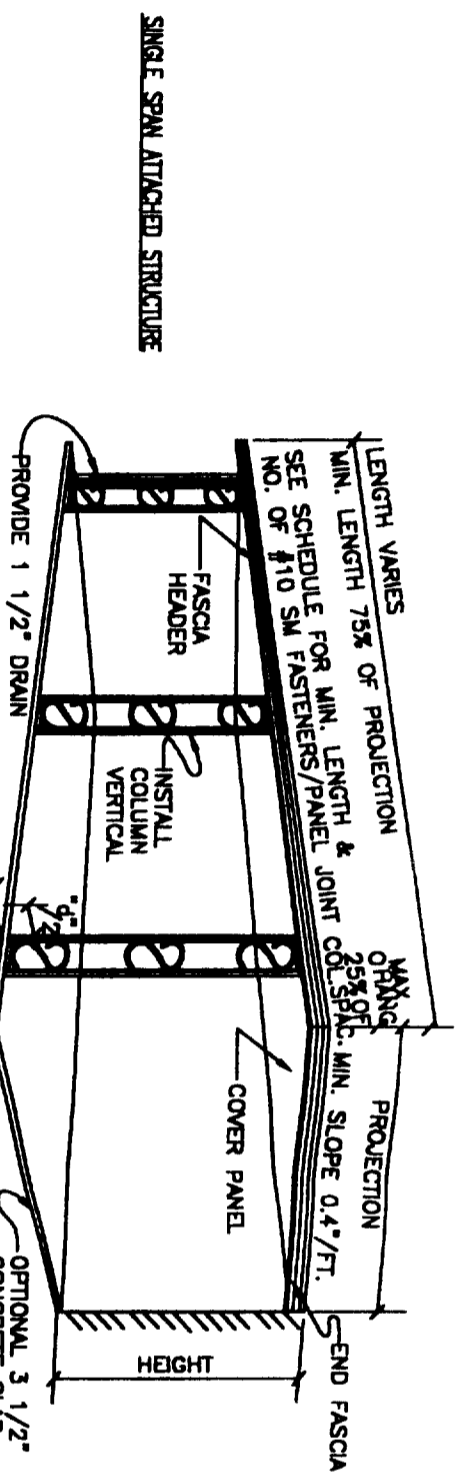
**AMERICAN INSTITUTE OF CIVIL ENGINEERS**  
REGISTERED PROFESSIONAL ENGINEER  
R. F. TUCKER  
NO. 26070  
EXPIRES 3-31-02  
STATE OF CALIFORNIA  
ENGINEERS STAMP

DATE	REVISION	DATE	REVISION

DATE: 2/8/2000  
DRAWING OR PART NUMBER: 97CD02  
SHEET: 2 OF 9

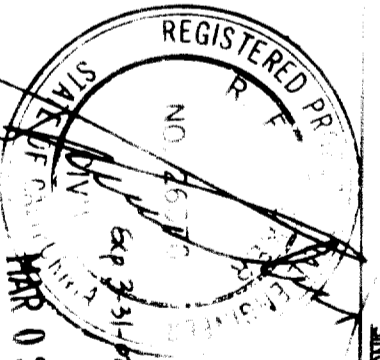
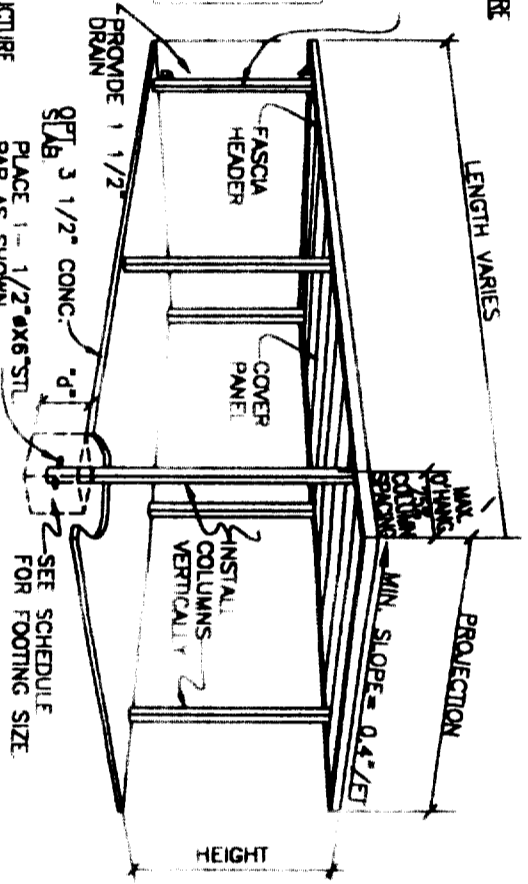
**Amerimax**  
Engineering Services  
1140 All Pro Drive  
Elkhart, IN 46514

DRAWN BY: KG  
SCALE: NONE  
ICBO ES EVALUATION REPORT NO. ER-2621P  
DRAWING OR PART NAME: COMPONENT PARTS & CONNECTION DETAILS



NOTE: PATIO WIDTH VARIES W/ SELECTION OF HEADER, NUMBER OF COLUMNS AND LOADING CONDITIONS. SEE SCHEDULES FOR MAX. COLUMN SPACING

SINGLE SPAN FREESTANDING STRUCTURE

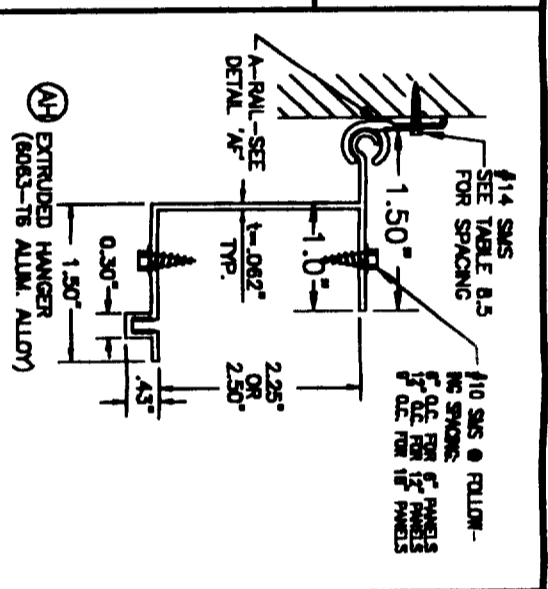
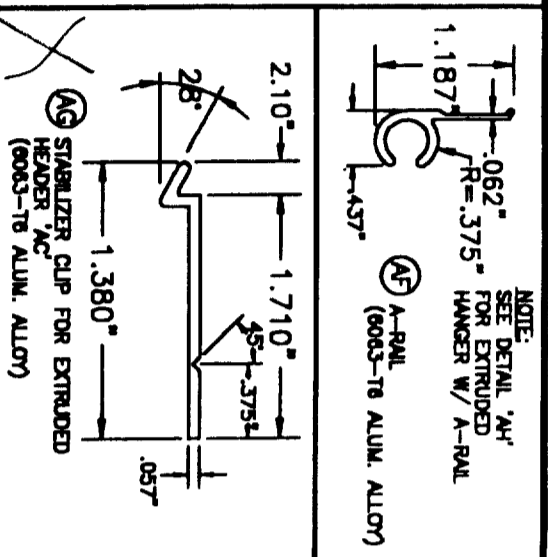
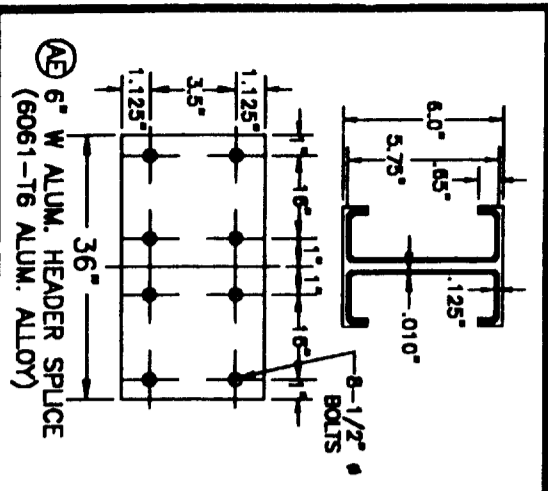


Engineering Services  
140 Air Pk Drive  
Elkhart, IN 46514

DATE	REVISION	DATE	REVISION
2/8/2000			

DRAWN BY: KG  
DATE: 2/8/2000  
DRAWING OR PART NAME: STRUCTURAL CONFIGURATIONS  
DRAFTER: NONE  
CHECKER: NONE  
SCALE: AS SHOWN  
SHEET NUMBER: 97SC01  
SHEET: 1 OF 2

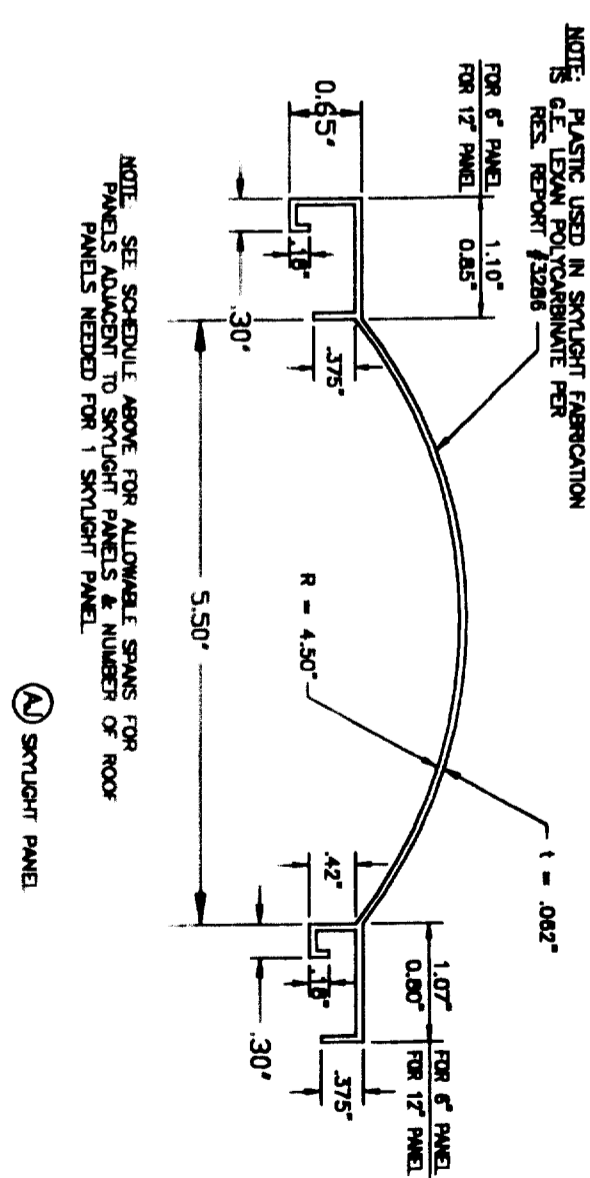
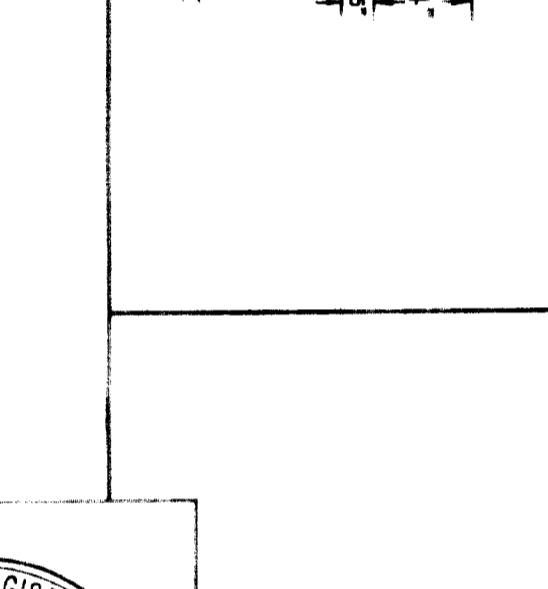
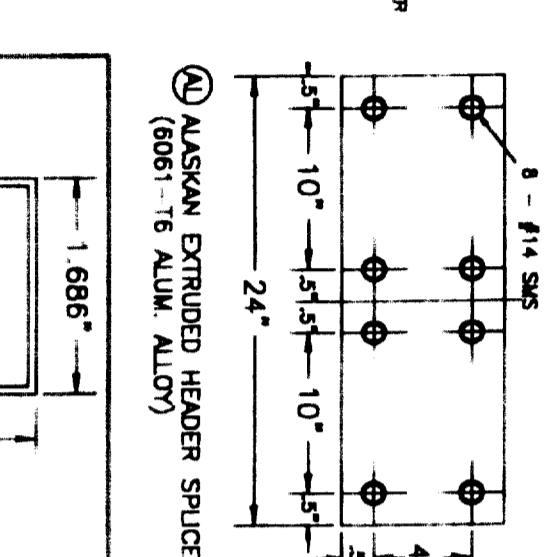
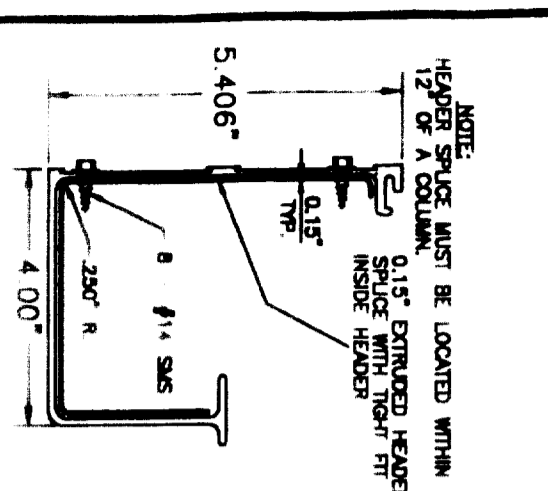
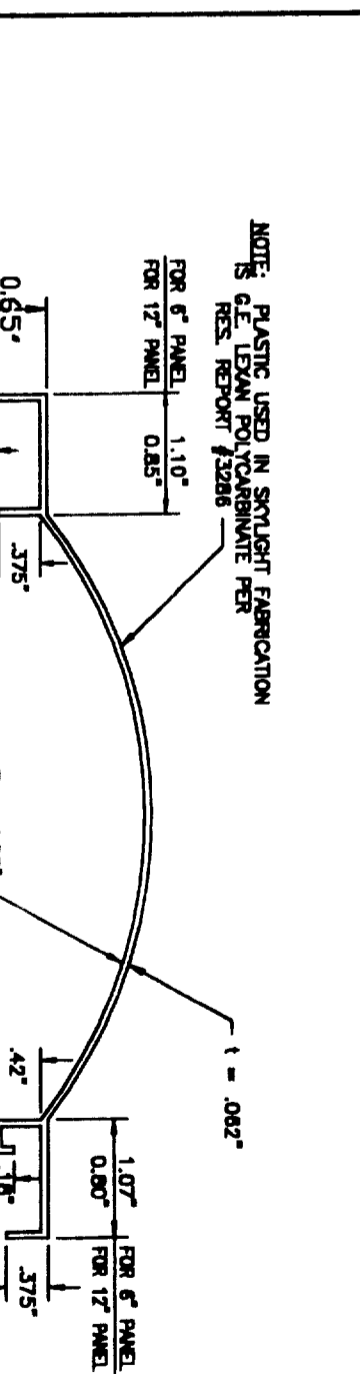
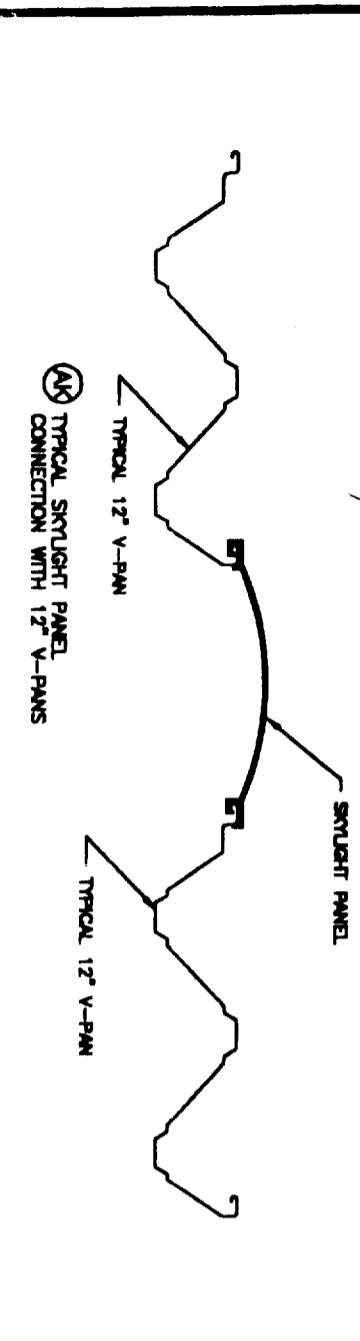
ICBO ES EVALUATION REPORT NO. ER-2621P



**SCHEDULE OF ALLOWABLE SPANS FOR 6" & 12" PANELS ADJACENT TO SKYLIGHT PANELS.**

LIVELOAD (PSF)	*6" PANEL SPANS			*12" PANEL SPANS		
	1	2	3	1	2	3
10	11'-9"	14'-5"	17'-2"	17'-9"	11'-0"	13'-3"
20	8'-8"	10'-6"	12'-6"	13'-5"	7'-11"	10'-4"
25	7'-2"	9'-5"	11'-3"	12'-1"	7'-2"	9'-3"
30	6'-1"	8'-8"	10'-4"	11'-1"	6'-7"	8'-6"

\* USE A MINIMUM OF (1) SKYLIGHT PANEL PER (4) - 6' ROOF PANELS AND (1) SKYLIGHT PANEL PER (2) - 12' ROOF PANELS FOR SKYLIGHT TO PANEL CONNECTIONS, USE THE SAME NUMBER OF SCREWS AS PANEL TO HEADER. SEE TABLE 'A' DETAIL (AE)

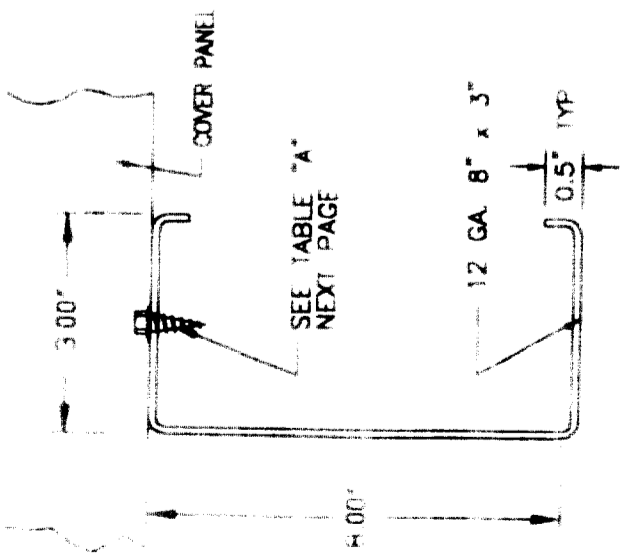


**REGISTERED PROFESSIONAL ENGINEER**  
 STATE OF CALIFORNIA  
 NO. 26070  
 DATE: 2/8/2000

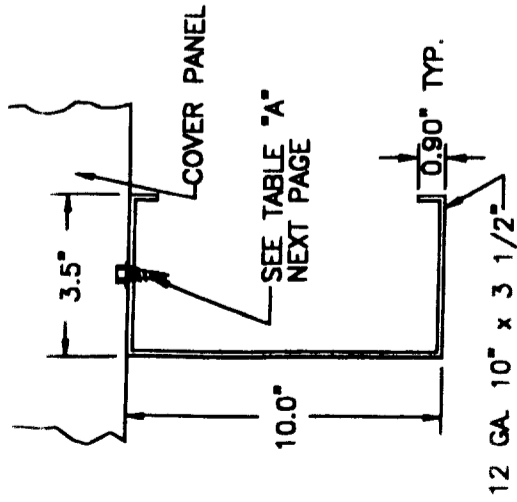
**Amerimax**  
 ENGINEERING SERVICES  
 1140 All Pro Drive  
 Elkhart, IN 46514

IC80 ES EVALUATION REPORT NO. ER-2621P

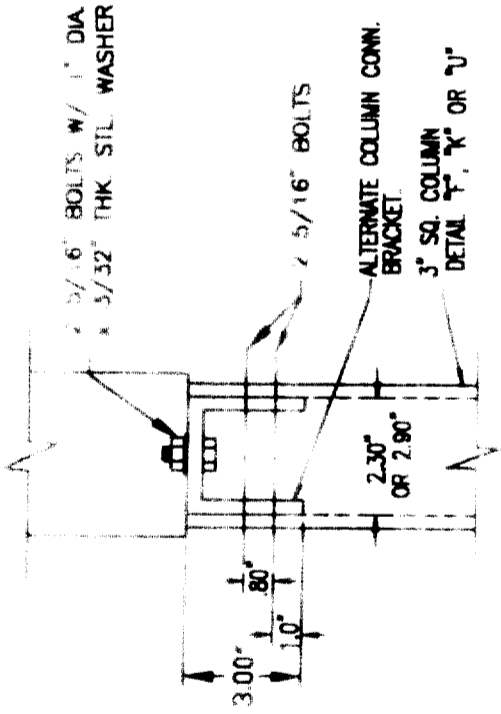
DATE: 2/8/2000  
 SHEET: 5 OF 9



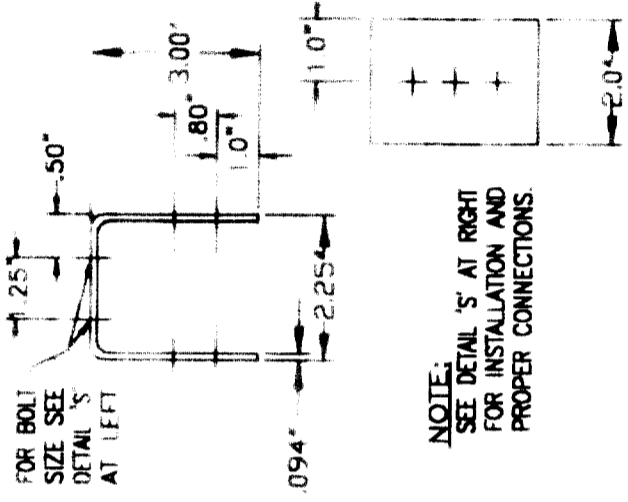
(R) STEEL "C" - CHANNEL HEADER  
(STEEL A-653 Fy=50,000 PSI)



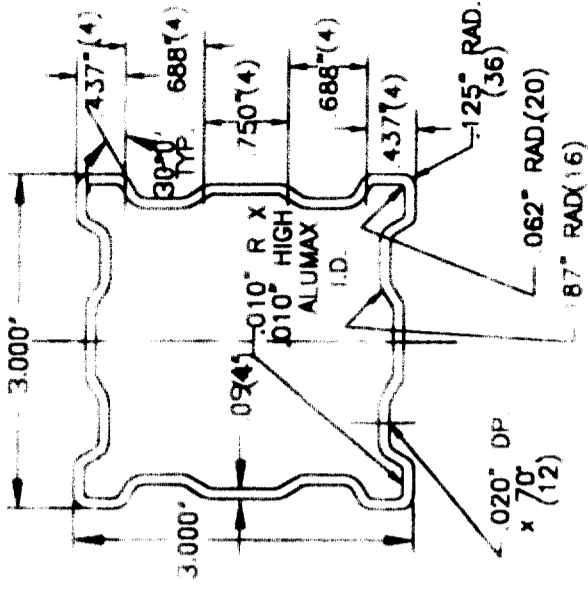
(V) STEEL "C" - CHANNEL HEADER  
(STEEL A-653 Fy=50,000 PSI)



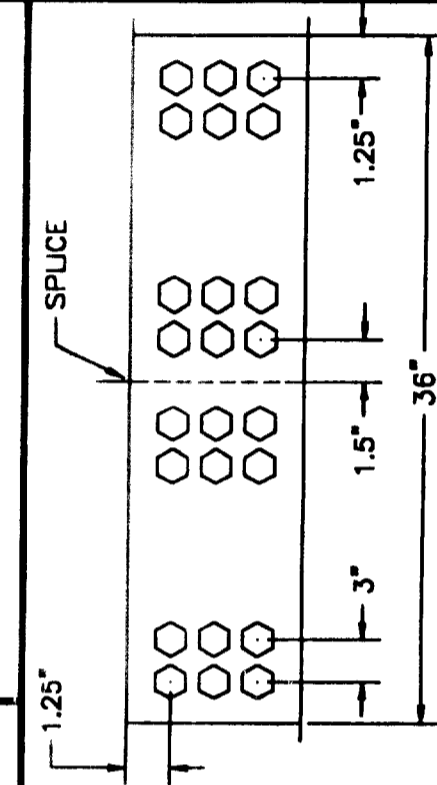
(S) 3" COLUMN CONNECTIONS FOR  
FASCIA HEADERS



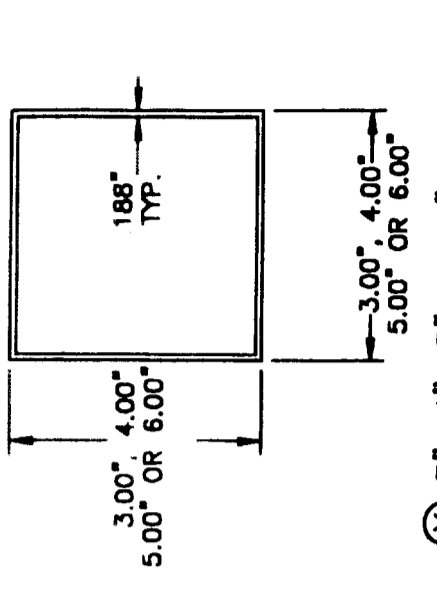
(T) 3" ALTERNATE COLUMN CONN BRACKETS  
(STEEL A-653 Fy=40,000 PSI)



(U) FLUTED COLUMN  
(3" ALUM 6063-16)  
"t" = 0.062" UNLESS OTHERWISE NOTED



(W) 10" FULL-STRENGTH SPLICE DETAIL  
ASTM A 653 Fy=36 KSI



(X) 3", 4", 5" OR 6"  
STEEL COLUMN Fy=36 KSI

DATE	REVISION	DATE	REVISION
MAR 03 2023			

REGISTERED PROFESSIONAL ENGINEER  
R. T. TUCKER  
NO. 2870  
STATE OF CALIFORNIA  
MAR 3-21-02

ENGINEERS STAMP

**Amerimax**  
Engineering Services  
1140 All Pro Drive  
Elkhart, IN 46514

ICBO ES EVALUATION REPORT NO. ER-2621P

DRAWING OR PART NAME: CONNECTION PARTS & CONNECTION DETAILS

SCALE: NONE

DRAWING NUMBER: 97CD03

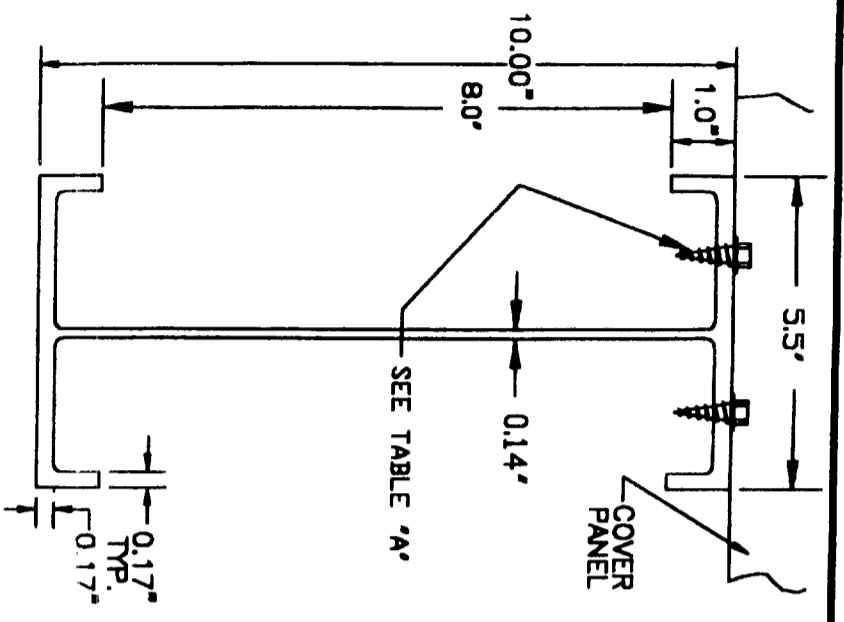
SHEET: 3 OF 9

3.0 FREESTANDING AND ATTACHED COMMERCIAL STRUCTURES

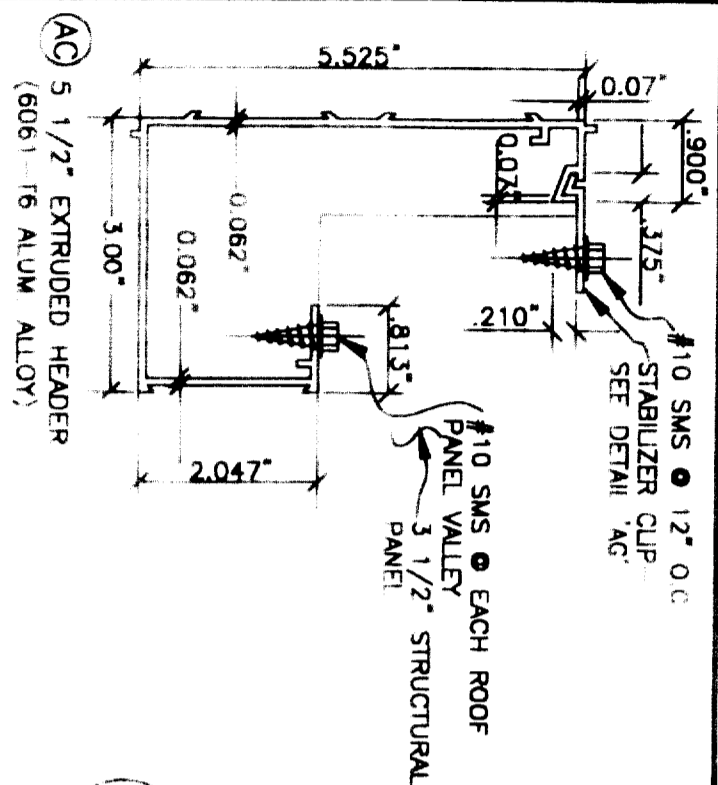
LIVE LOAD	TRIB	4" I BEAM				7" I BEAM				10" I BEAM													
		MAX. COLUMN SPACING	CONG. FOOTER SIZE	ATT. FOOTER SIZE	ATT. COLUMN SPACING	MAX. COLUMN SPACING	CONG. FOOTER SIZE	ATT. FOOTER SIZE	ATT. COLUMN SPACING	MAX. COLUMN SPACING	CONG. FOOTER SIZE	ATT. FOOTER SIZE	ATT. COLUMN SPACING										
25	80 MPH EXPOSURE C	4	22-6"	33	35	38	40	28	28	24-11"	34	36	39	41	29	30-7"	36	38	41	43	31		
		5	20-1"	33	35	37	38	28	28	22-4"	33	35	38	40	31	27-4"	35	37	40	42	33		
		6	18-4"	32	34	37	38	30	30	20-4"	32	34	37	38	32	24-11"	34	36	39	41	33		
		7	17-0"	31	33	36	37	31	31	18-10"	32	34	37	38	32	23-1"	33	35	38	40	35		
		8	15-11"	32	32	35	36	32	32	17-8"	32	34	36	37	33	21-7"	35	35	37	39	35		
		9	15-0"	32	32	35	36	32	32	16-7"	33	34	36	37	33	20-4"	36	36	37	39	36		
		10	14-2"	33	33	35	36	32	32	15-8"	34	34	35	36	34	19-4"	37	37	37	39	37		
		11	13-6"	34	34	34	35	34	34	15-0"	35	35	35	36	35	18-10"	37	37	37	39	37		
		12	13-0"	34	34	34	35	34	34	14-5"	35	35	35	36	35	18-1"	38	38	38	39	38		
		13	12-5"	35	35	35	35	35	35	13-4"	35	35	35	36	35	17-4"	38	38	38	39	38		
		14	12-0"	35	35	35	35	35	35	13-4"	36	36	36	36	36	16-8"	39	39	39	39	39		
		15	11-7"	36	36	36	36	36	36	12-10"	36	36	36	36	36	16-2"	39	39	39	39	39		
		30	70 & 80 MPH EXPOSURE B / 70 MPH EXPOSURE C	4	21-1"	28	31	34	35	27	27	25-4"	30	32	34	36	29	35-8"	32	35	37	39	32
				5	18-10"	28	30	32	34	28	28	22-10"	30	31	34	35	30	32-3"	34	34	37	39	34
				6	17-2"	28	29	31	33	29	29	20-10"	31	31	33	35	31	29-5"	35	35	36	37	35
7	15-11"			30	30	32	33	30	30	18-4"	32	32	34	34	32	27-3"	36	36	36	37	36		
8	14-10"			30	30	32	33	30	30	18-1"	33	33	33	34	32	25-8"	36	36	36	37	36		
9	14-0"			31	31	32	33	31	31	17-8"	33	33	33	34	32	24-0"	37	37	37	37	37		
10	13-4"			32	32	32	33	32	32	16-7"	34	34	34	34	33	22-6"	37	37	37	37	37		
11	12-8"			32	32	32	33	32	32	15-8"	35	35	35	35	35	21-6"	38	38	38	38	38		
12	12-2"			33	33	33	33	33	33	14-8"	35	35	35	35	35	20-7"	38	38	38	38	38		
13	11-8"			33	33	33	33	33	33	14-2"	36	36	36	36	36	19-10"	39	39	39	39	39		
14	11-3"			34	34	34	34	34	34	13-8"	36	36	36	36	36	19-1"	40	40	40	40	40		
15	11-3"			34	34	34	34	34	34	13-4"	36	36	36	36	36	18-8"	40	40	40	40	40		
40	70 & 80 MPH EXPOSURE B / 70 MPH EXPOSURE C			4	18-4"	27	29	30	32	26	26	22-3"	29	31	34	35	28	30-7"	32	34	36	38	31
				5	16-4"	27	28	30	32	27	27	19-10"	28	30	32	34	28	27-4"	32	32	35	37	32
				6	14-11"	27	28	30	32	27	27	18-2"	30	30	32	34	30	24-11"	32	33	34	36	33
		7	13-10"	28	28	29	31	28	28	16-8"	30	30	31	33	30	23-1"	33	33	34	36	34		
		8	12-11"	29	29	31	31	29	29	15-8"	31	31	31	33	30	21-7"	33	33	34	36	34		
		9	12-2"	30	30	30	31	30	30	14-10"	31	31	31	32	31	20-4"	34	34	34	35	34		
		10	11-7"	30	30	30	30	30	30	14-0"	31	31	31	32	31	19-4"	35	35	35	35	35		
		11	11-0"	30	30	30	30	30	30	13-5"	32	32	32	33	33	18-10"	36	36	36	36	36		
		12	10-7"	30	30	30	30	30	30	13-5"	32	32	32	33	33	18-4"	36	36	36	36	36		
		13	10-7"	30	30	30	30	30	30	12-10"	33	33	33	33	33	17-11"	37	37	37	37	37		
		14	10-7"	30	30	30	30	30	30	12-10"	33	33	33	33	33	17-11"	37	37	37	37	37		
		15	10-7"	30	30	30	30	30	30	12-10"	33	33	33	33	33	17-11"	37	37	37	37	37		
		60	80 MPH EXPOSURE C	4	18-4"	32	34	37	38	27	27	22-3"	33	35	38	40	28	30-7"	35	38	41	43	31
				5	16-4"	31	33	36	37	28	28	19-10"	32	34	37	38	29	27-4"	35	37	40	42	33
				6	14-11"	30	32	35	36	29	29	18-2"	32	34	37	38	30	24-11"	34	36	39	41	33
7	13-10"			29	31	33	35	28	28	16-8"	31	33	36	37	31	23-1"	35	35	38	40	35		
8	12-11"			30	31	33	35	30	30	15-8"	32	32	35	36	32	21-7"	35	35	37	39	36		
9	12-2"			31	31	33	35	31	31	14-10"	32	32	35	36	32	20-4"	36	36	37	39	36		
10	11-7"			31	31	33	35	31	31	14-0"	33	33	35	36	32	19-4"	36	36	37	39	37		
11	11-0"			31	31	33	35	31	31	13-5"	34	34	35	36	34	18-10"	37	37	37	39	37		
12	10-7"			31	31	33	35	31	31	13-5"	34	34	35	36	34	18-4"	37	37	37	39	37		
13	10-7"			31	31	33	35	31	31	12-10"	35	35	35	36	35	17-11"	38	38	38	39	38		
14	10-7"			31	31	33	35	31	31	12-10"	35	35	35	36	35	17-11"	38	38	38	39	38		
15	10-7"			31	31	33	35	31	31	12-10"	35	35	35	36	35	17-11"	38	38	38	39	38		

LIVE LOAD	TRIB	5" I/8" EXTRUDED HEADERS								
		MAX. COLUMN SPACING	CONG. FOOTER SIZE	ATT. FOOTER SIZE	ATT. COLUMN SPACING					
25	90 MPH EXPOSURE B	4	10-0"	23	25	27	28	21		
		5	9-5"	23	25	27	28	22		
		6	8-11"	23	25	27	28	22		
		7	8-0"	23	25	27	28	22		
		8	8-6"	24	26	28	29	22		
		9	8-2"	24	26	28	29	23		
		10	7-10"	25	27	29	31	23		
		11	7-5"	25	27	29	31	23		
		12	7-5"	25	27	29	31	23		
		13	7-5"	25	27	29	31	23		
		14	7-0"	26	28	30	32	23		
		15	7-0"	26	28	30	32	23		
		30	80 MPH EXPOSURE C	4	9-2"	20	22	24	25	21
				5	8-7"	20	22	24	25	21
				6	8-2"	20	22	24	25	22
7	7-10"			20	22	24	25	22		
8	7-5"			21	23	25	26	22		
9	7-5"			21	23	25	26	22		
10	7-2"			22	24	26	27	23		
11	7-2"			22	24	26	27	23		
12	6-10"			22	24	26	27	23		
13	6-10"			22	24	26	27	23		
14	6-7"			23	25	27	28	23		
15	6-7"			23	25	27	28	23		
40	70 MPH EXPOSURE C			4	9-2"	27	29	31	32	26
				5	8-7"	27	29	31	32	26
				6	8-2"	27	29	31	32	26
		7	7-11"	28	30	32	33	26		
		8	7-7"	28	30	32	33	26		
		9	7-7"	28	30	32	33	26		
		10	7-2"	29	31	33	34	26		
		11	7-2"	29	31	33	34	26		
		12	6-11"	29	31	33	34	26		
		13	6-11"	29	31	33	34	26		
		14	6-7"	30	32	34	35	26		
		15	6-7"	30	32	34	35	26		

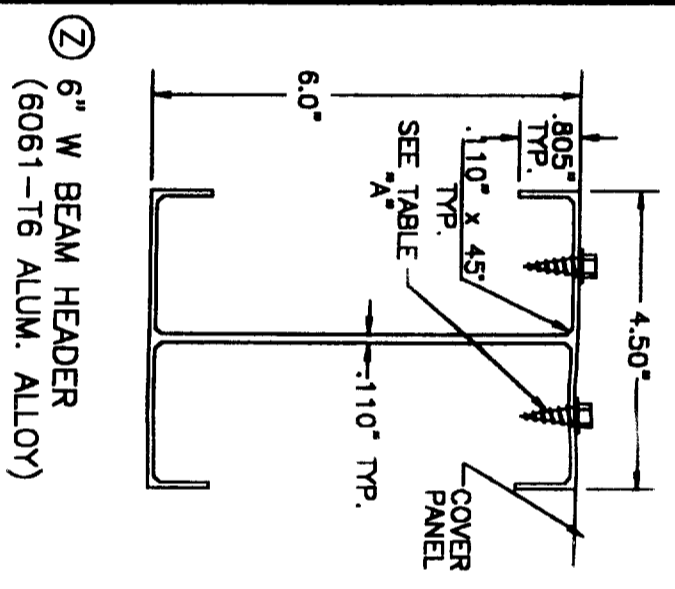
LIVE LOAD	TRIB	8" STEEL I BEAM				10" STEEL I BEAM				
		MAX. COLUMN SPACING	CONG. FOOTER SIZE	ATT. FOOTER SIZE	ATT. COLUMN SPACING	MAX. COLUMN SPACING	CONG. FOOTER SIZE	ATT. FOOTER SIZE	ATT. COLUMN SPACING	
25	90 MPH EXPOSURE B	4	10-0"	23	25	27	28	21		
		5	9-5"	23	25	27	28	22		
		6	8-11"	23	25	27	28	22		
		7	8-0"	23	25	27	28	22		
		8	8-6"	24	26	28	29	22		
		9	8-2"	24	26	28	29	23		
		10	7-10"	25	27	29	31	23		
		11	7-5"	25	27	29	31	23		
		12	7-5"	25	27	29	31	23		
		13	7-5"	25	27	29	31	23		
		14	7-0"	26	28	30	32	23		
		15	7-0"	26	28	30	32	23		
		30	80 MPH EXPOSURE C	4	9-2"	20	22	24	25	21
				5	8-7"	20	22	24	25	21
				6	8-2"	20	22	24	25	22
7	7-10"			20	22	24	25	22		
8	7-5"			21	23	25	26	22		
9	7-5"			21	23	25	26	22		
10	7-2"			22	24	26	27	23		
11	7-2"			22	24	26	27	23		
12	6-10"			22	24	26	27	23		
13	6-10"			22	24	26	27	23		
14	6-7"			23	25	27	28	23		
15	6-7"			23	25	27	28	23		
40	70 MPH EXPOSURE C			4	9-2"	27	29	31	32	26
				5	8-7"	27	29	31	32	26
				6	8-2"	27	29	31	32	26
		7	7-11"	28	30	32	33	26		
		8	7-7"	28	30	32	33	26		
		9	7-7"	28	30	32	33	26		
		10	7-2"	29	31	33	34	26		
		11	7-2"	29	31	33	34	26		
		12	6-11"	29	31	33	34			



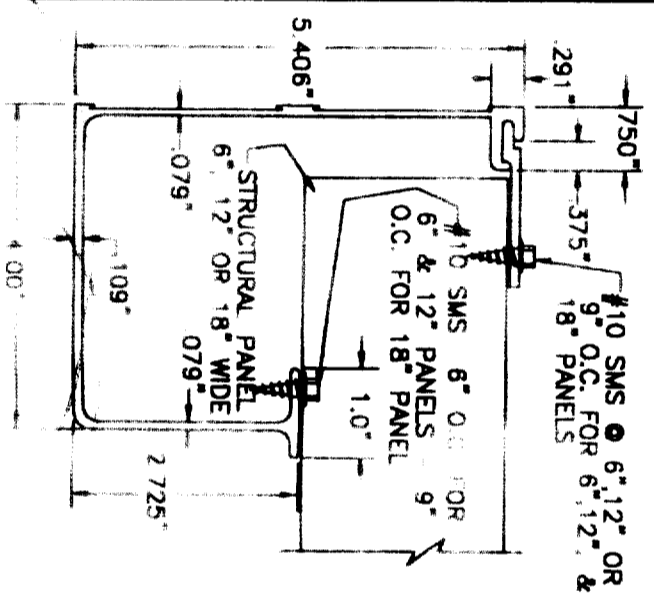
Y 10" X 5 1/2" W BEAM HEADER  
(6061-T6 ALUM. ALLOY)



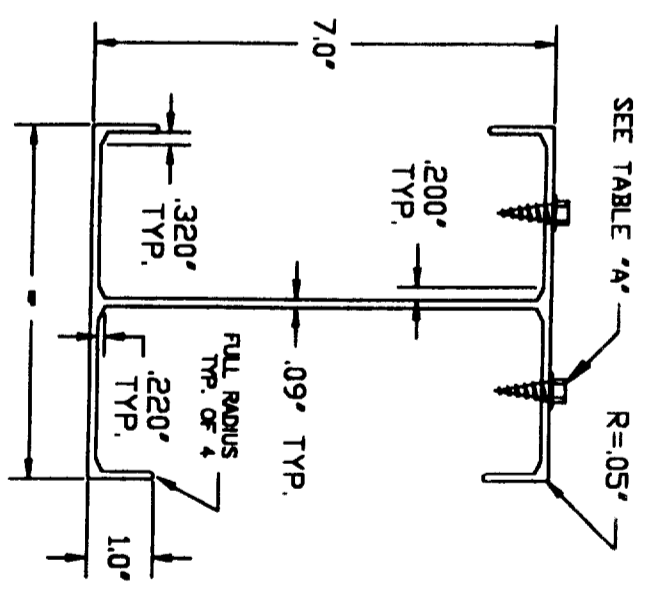
AC 5 1/2" EXTRUDED HEADER  
(6061-T6 ALUM. ALLOY)



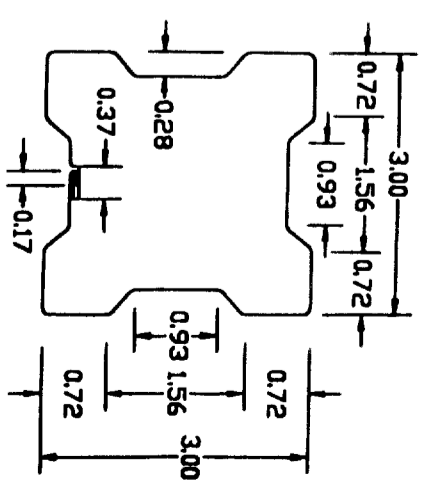
Z 6" W BEAM HEADER  
(6061-T6 ALUM. ALLOY)



AD ALASKAN EXTRUDED HEADER  
(6061 T6 ALUM. ALLOY)



AA 7" X 5 1/2" W BEAM HEADER  
(6061-T6 ALUM. ALLOY)

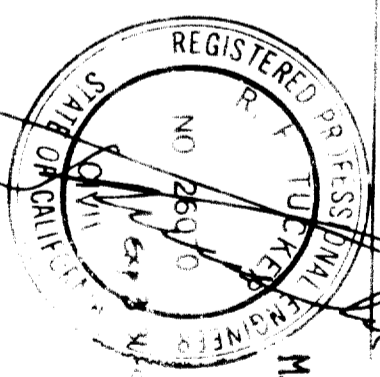


AB 3" X 3" HEADER (STEEL)  
(A-653 Fy=40 KSI STEEL)

FASTENERS REQUIRED FOR PANEL TO HEADER CONNECTIONS

MAX. WIND LOAD	HEADER DESCRIPTION	MAX. TRIB WIDTH	FASTENING SCHEDULE	NOTES
90 MPH PATID	ALL FASCIA STEEL CLOVER, C BEAMS, I BEAMS	10'	2-#10 SMS PER 12" PANEL	
70 MPH EXP C	ALL FASCIA STEEL CLOVER, C BEAMS, I BEAMS	12'	2-#14 SMS PER 12" PANEL	
90 MPH EXP B	STEEL CLOVER, C BEAMS, I BEAMS	21'	3-#14 SMS PER 12" PANEL	
90 MPH EXP C	ALL FASCIA STEEL CLOVER, C BEAMS, I BEAMS	10'	2-#10 SMS PER 12" PANEL	
AND	STEEL CLOVER, C BEAMS, I BEAMS	16'	3-#14 SMS PER 12" PANEL	SEE #1
90 MPH EXP B	STEEL CLOVER, C BEAMS, I BEAMS	16'	2-#14 SMS PER 12" PANEL	SEE #2
90 MPH EXP C	ALL FASCIA STEEL CLOVER, C BEAMS, I BEAMS	10'	2-#14 SMS PER 12" PANEL	
	STEEL CLOVER, C BEAMS, I BEAMS	16'	4-#14 SMS PER 12" PANEL	SEE #1
	STEEL CLOVER, C BEAMS, I BEAMS	16'	3-#14 SMS PER 12" PANEL	SEE #2

AE 6' PANEL USE 50% LESS SCREWS  
18' PANELS USE 50% MORE SCREWS  
#1 .018 & .024 PANELS  
#2 .032 & .036 PANELS



MAR 03 2000



Engineering Services  
140 Al. Pro. Drive  
Elkhart IN 46514

DATE	REVISION	DATE	REVISION
2/8/2000			

ICBO ES EVALUATION REPORT NO ER-2621P  
DRAWING OR PART NAME: COMPONENT PARTS & CONNECTION DETAILS  
DRAWING OR PART NUMBER: 97CD04  
SHEET: 4 OF 9

4.0 FREESTANDING AND ATTACHED LATTICE PATIO STRUCTURES

LIVE LOAD (PSF)	TRIB WIDTH (FT)	MAXIMUM COLUMN SPACING				MAXIMUM COLUMN SPACING				TRIB WIDTH (FT)	LIVE LOAD (PSF)
		FOR ATTACHED LATTICE ON SLAB				FOR ATTACHED LATTICE ON SLAB					
		MAX. COLUMN SPACING (FT)	MIN. COLUMN TYPE	MAX. COLUMN SPACING (FT)	MIN. COLUMN TYPE	MAX. COLUMN SPACING (FT)	MIN. COLUMN TYPE	MAX. COLUMN SPACING (FT)	MIN. COLUMN TYPE		
10	4	21-11	25-7	28-3	28-3	28-3	28-3	28-3	28-3	4	10
5	5	16-10	20-6	21-0	21-0	21-0	21-0	21-0	21-0	5	5
7	6	14-11	17-8	17-8	17-8	17-8	17-8	17-8	17-8	6	7
8	7	12-11	14-7	15-0	15-0	15-0	15-0	15-0	15-0	7	8
9	8	10-7	11-4	13-1	13-1	13-1	13-1	13-1	13-1	8	9
10	9	8-8	8-10	10-3	10-3	10-3	10-3	10-3	10-3	9	10
11	10	7-8	7-8	8-8	8-8	8-8	8-8	8-8	8-8	10	11
12	11	6-8	6-8	7-10	7-10	7-10	7-10	7-10	7-10	11	12
13	12	6-8	6-8	6-11	6-11	6-11	6-11	6-11	6-11	12	13
14	13	5-7	5-10	6-10	6-10	6-10	6-10	6-10	6-10	13	14
15	14	5-3	5-6	5-5	5-5	5-5	5-5	5-5	5-5	14	15
16	15	5-3	5-6	5-2	5-2	5-2	5-2	5-2	5-2	15	16
17	16	4-8	4-11	4-11	4-11	4-11	4-11	4-11	4-11	16	17
18	17	4-8	4-8	4-8	4-8	4-8	4-8	4-8	4-8	17	18
19	18	4-8	4-8	4-8	4-8	4-8	4-8	4-8	4-8	18	19
20	19	4-8	4-8	4-8	4-8	4-8	4-8	4-8	4-8	19	20
21	20	4-8	4-8	4-8	4-8	4-8	4-8	4-8	4-8	20	21
22	21	4-8	4-8	4-8	4-8	4-8	4-8	4-8	4-8	21	22
25	24	21-11	25-7	28-3	28-3	28-3	28-3	28-3	28-3	25	25
10	4	21-11	25-7	28-3	28-3	28-3	28-3	28-3	28-3	4	10
5	5	16-10	20-6	21-0	21-0	21-0	21-0	21-0	21-0	5	5
7	6	14-11	17-8	17-8	17-8	17-8	17-8	17-8	17-8	6	7
8	7	12-11	14-7	15-0	15-0	15-0	15-0	15-0	15-0	7	8
9	8	10-7	11-4	13-1	13-1	13-1	13-1	13-1	13-1	8	9
10	9	8-8	8-10	10-3	10-3	10-3	10-3	10-3	10-3	9	10
11	10	7-8	7-8	8-8	8-8	8-8	8-8	8-8	8-8	10	11
12	11	6-8	6-8	7-10	7-10	7-10	7-10	7-10	7-10	11	12
13	12	6-8	6-8	6-11	6-11	6-11	6-11	6-11	6-11	12	13
14	13	5-7	5-10	6-10	6-10	6-10	6-10	6-10	6-10	13	14
15	14	5-3	5-6	5-5	5-5	5-5	5-5	5-5	5-5	14	15
16	15	5-3	5-6	5-2	5-2	5-2	5-2	5-2	5-2	15	16
17	16	4-8	4-11	4-11	4-11	4-11	4-11	4-11	4-11	16	17
18	17	4-8	4-8	4-8	4-8	4-8	4-8	4-8	4-8	17	18
19	18	4-8	4-8	4-8	4-8	4-8	4-8	4-8	4-8	18	19
20	19	4-8	4-8	4-8	4-8	4-8	4-8	4-8	4-8	19	20
21	20	4-8	4-8	4-8	4-8	4-8	4-8	4-8	4-8	20	21
22	21	4-8	4-8	4-8	4-8	4-8	4-8	4-8	4-8	21	22

TABLE 4.1

LIVE LOAD (PSF)	TRIB WIDTH (FT)	0.047 x 3" x 8" BOX BEAM				0.047 x 3" x 8" BOX BEAM				TRIB WIDTH (FT)	LIVE LOAD (PSF)
		MAXIMUM COLUMN SPACING				MAXIMUM COLUMN SPACING					
		MAX. COLUMN SPACING (FT)	MIN. COLUMN TYPE	MAX. COLUMN SPACING (FT)	MIN. COLUMN TYPE	MAX. COLUMN SPACING (FT)	MIN. COLUMN TYPE	MAX. COLUMN SPACING (FT)	MIN. COLUMN TYPE		
10	4	11-2	A	17-4	A	29	A	15-9	A	4	10
5	5	8-11	A	14-3	A	28	A	14-1	A	5	5
7	6	7-8	A	11-11	A	28	A	12-11	A	6	7
8	7	6-4	A	10-2	A	28	A	11-4	A	7	8
9	8	5-7	A	10-2	A	28	A	11-4	A	8	9
10	9	4-11	A	7-11	A	28	A	10-4	A	9	10
11	10	4-5	A	7-2	A	28	A	10-2	A	10	11
12	11	4-7	A	7-2	A	28	A	11-4	A	11	12
13	12	4-7	A	7-2	A	28	A	10-3	A	12	13
14	13	4-7	A	6-1	A	28	A	8-4	A	13	14
15	14	4-7	A	6-1	A	28	A	8-4	A	14	15
16	15	4-7	A	6-1	A	28	A	8-4	A	15	16
17	16	4-7	A	6-1	A	28	A	8-4	A	16	17
18	17	4-7	A	6-1	A	28	A	8-4	A	17	18
19	18	4-7	A	6-1	A	28	A	8-4	A	18	19
20	19	4-7	A	6-1	A	28	A	8-4	A	19	20
21	20	4-7	A	6-1	A	28	A	8-4	A	20	21
22	21	4-7	A	6-1	A	28	A	8-4	A	21	22

TABLE 4.2

TABLE 4.3  
CLEARSPANS FOR 3 X 8 RAFTER

LIVE LOAD (PSF)	PANEL T (IN)	7000 MPH OVER HANG
10	0.036	23-4
20	0.042	27-2
25	0.048	14-6
30	0.042	17-8
40	0.036	7-4
60	0.036	4-11

TABLE 4.4  
COLUMN SCHEDULE FOR ATTACHED LATTICE PATIO STRUCTURES

COL	COLUMN SCHEDULE	MAX. COLUMN HEIGHT
A	0.027 x 3" SQUARE ALUM COLUMN	11'-6"
B	0.032 x 1 1/2" SQUARE ALUM SCROLL COLUMN	8'-0"
C	0.027 x 3" SQUARE ALUM COLUMN	11'-4"
D	0.047 x 3" CLOVERLEAF COLUMN	12'-0"
E	3" CLOVERLEAF STEEL 0.048"	12'-0"
F	3" SQUARE STEEL COLUMN	12'-0"
G	4" SQUARE STEEL COLUMN	12'-0"
H	5" SQUARE STEEL COLUMN	12'-0"
J	6" SQUARE STEEL COLUMN	12'-0"

TABLE 4.5  
CLEARSPANS FOR 2 X 6 RAFTER

LIVE LOAD (PSF)	PANEL T (IN)	7000 MPH OVER HANG
10	0.024	13-7
20	0.032	18-1
25	0.024	9-10
30	0.024	8-10
40	0.032	10-8
60	0.032	7-8

TABLE 4.6  
COLUMN SCHEDULE FOR FREESTANDING STRUCTURES AND INTERMEDIATE COLUMNS FOR MULTISPAN STRUCTURES

COLUMN	NOTES
E	6-7" MAX. COLUMN LENGTH
F	11" MAX. COLUMN LENGTH
G	12" MAX. COLUMN LENGTH
H	12" MAX. COLUMN LENGTH

FOR 10 PSF DOUBLE RAFTERS MAY BE USED 48" O.C.

MAR 032

REGISTERED PROFESSIONAL  
R. F. MUCKER  
NO. 26070  
STATE OF CALIFORNIA  
CIVIL ENGINEER

**Amerimax**  
BUILDING PRODUCTS, INC.  
1140 ALL PRO DRIVE  
ELKHART, IN 46514

CSO ES EVALUATION REPORT ER-2621P  
HEADER SPANS, COLUMN SPACING,  
FOOTER SIZE AND COLUMN TYPE FOR  
FREESTANDING AND ATTACHED  
LATTICE PATIO STRUCTURES  
SHEET 6 OF 8 DATE: 2/9/2000

ALL COLUMNS MAY BE REPLACED WITH A STRONGER COLUMN  
"A" MAY BE REPLACED W/ B-J  
"B" MAY BE REPLACED W/ C-J, ETC.  
LINEAR INTERPOLATION FOR ALL CALCULATIONS IS ALLOWED