

CITY OF SACRAMENTO
1231 I Street, Sacramento, CA 95814

Permit No: 0014800
Insp Area: 4

Site Address: 11 ROSEBRIAR CT SAC
Parcel No: 225-1150-027

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

CONTRACTOR
YANCEY BROTHERS
8250 ALPINE AV STE A
SAC CA 95826

OWNER
CRIBBS HAL
11 ROSEBRIAR CT
SACRAMENTO CA 95826

ARCHITECT

Nature of Work: 15'x23' SOLID 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 DC 3 License Number 731709 Date 12/15/00 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 8 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, and 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, that 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 abovementioned property for inspection purposes.

Date 12/15/00 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 STATE FUND Policy Number 1604244 Exp Date 11/01/2001

(This section need not be completed if the permit is issued for the performance of the work for which this permit is issued. I shall not employ any person in any manner 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 12/15/00 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.

Date of Request: 12/15/00
By: _____

**CITY OF SACRAMENTO DEVELOPMENT SERVICES DIVISION
PLANNING AND ZONING INFORMATION REQUEST**

Project Address: 1700 1st St

Assessor's Parcel Number: ~~412-018-0000-000~~ 225-1150-027

Previous Use: Exist. Residence

Description of Request/Proposed Use: 15' x 25' ~~DAK~~ Solid Patio

Is This a Change of Use? NO

Zoning Designation: R-1A-PUD

Prior Applications for Project Site(P#, Z#, DRPB#): _____

Comments: maintain min 5' setback from post to P/L

and within lot coverage

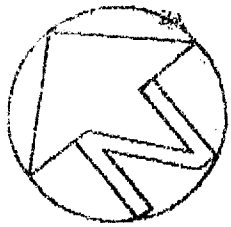
Are There Any Planning Issues?: (circle one) YES NO

- * Staff Site Plan Check Required? (Circle one) YES NO
- * Field Inspection Required? (Circle one) YES NO
- * Design Review/Preservation Required?: (Circle one) YES NO

Planning Review by/Date: PHIL REED 12/15/00

A list of items that must be reviewed by Planning is provided on the reverse side of this form.

MICROFILM AFTER FINAL



SCALE: 1" = 20'

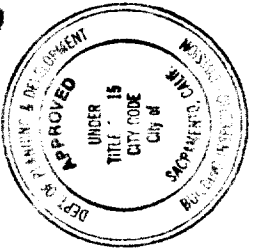
Harold Cr. bbs
11 Rosebriar ct
Sacto
Value \$ 3700
419-2152

ISSUED

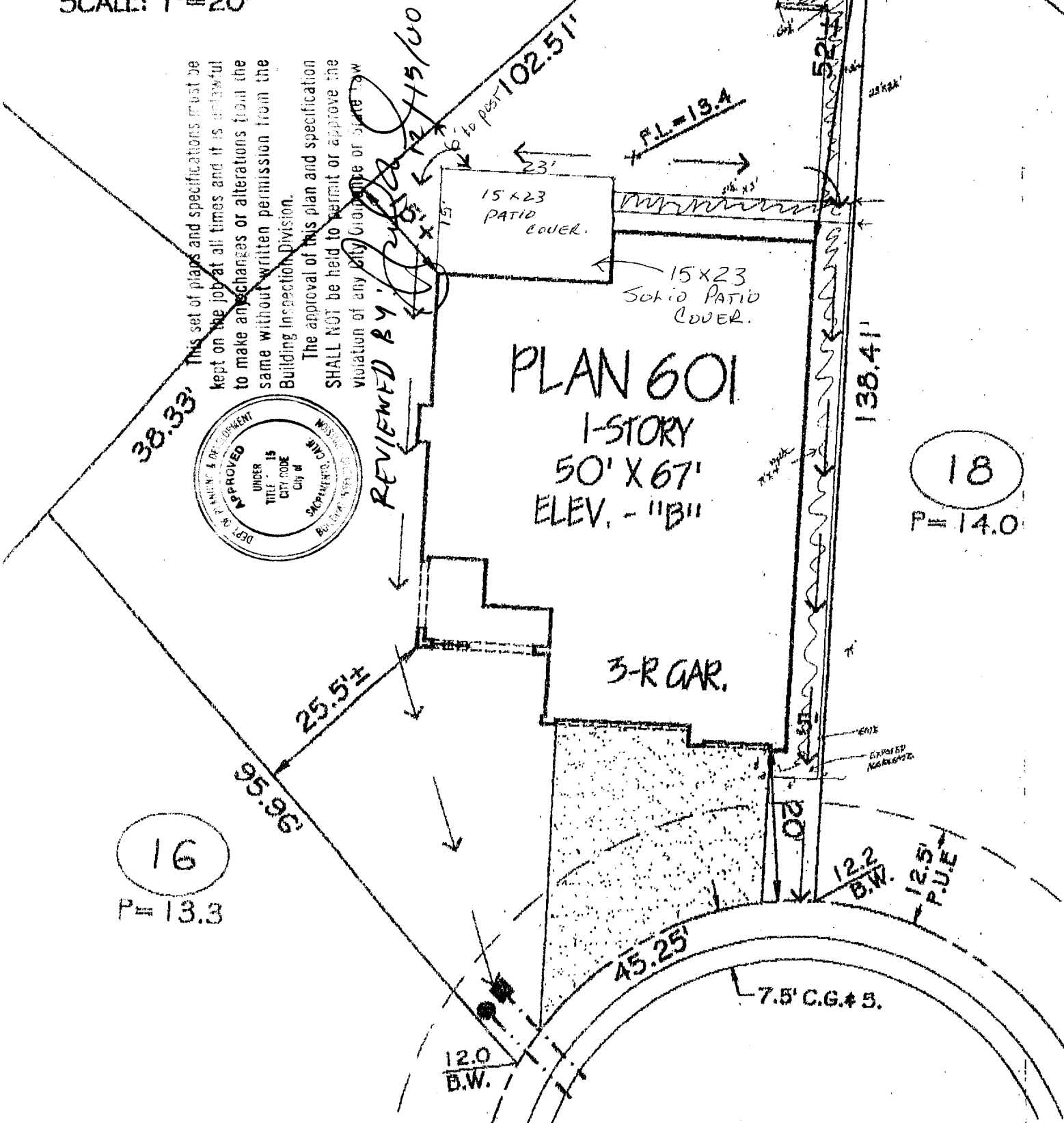
DEC 15 2000

Sacramento Building Division

This set of plans and specifications must be kept on the job at all times and it is unlawful to make any changes or alterations from the same without written permission from the Building Inspection Division.
The approval of this plan and specification SHALL NOT be held to permit or approve the violation of any City Ordinance or State Law.



REVIEWED BY: [Signature] 11/15/00



16
P = 13.3


18
P = 14.0

11 ROSEBRIAR COURT

LOT COVERAGE	
Lot Area:	10353 s.f.
Building:	2787 s.f.
Building/Lot Area:	27 %

RETAINING WALL	
Height:	_____
Length:	_____
Distance From P.L.:	_____

SYMBOLS	
Drainage Inlet:	
Fire Hydrant:	
Street Light:	
Sewer:	
Sign:	
Water:	
Transformer Ped:	

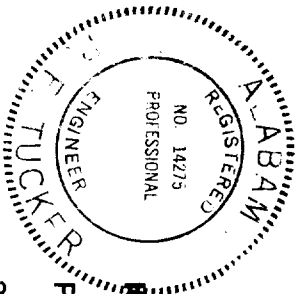
 **Winncrest Homes**

The Willows
A Parkway Plaza Community

Home Site 17

@

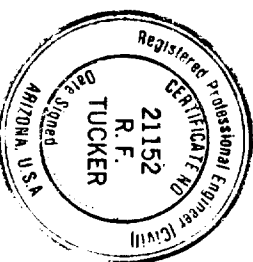
1. MEASUREMENTS ALONG CURVED LINES ARE CHORD LENGTHS, U.O.N.



ECBO EVALUATION REPORT NO ER-2621P

TABLE OF CONTENTS

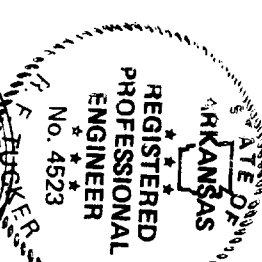
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2 PAGES	97GN01
2 PAGES	97GN02
1 PAGE	97SC01
2 PAGES	97SC02



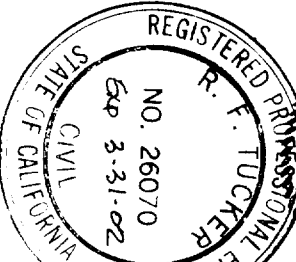
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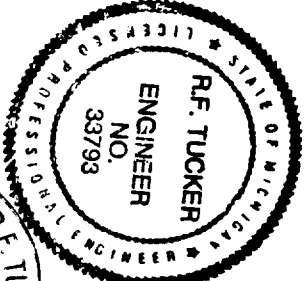
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2 PAGES



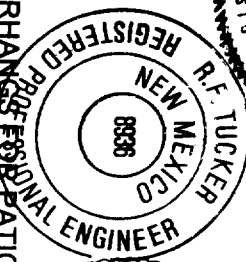
1 PAGE



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



1.0 ROOF PANEL SPANS AND OVERHANGS FOR PATIO AND COMMERCIAL STRUCTURES

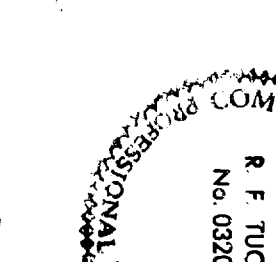
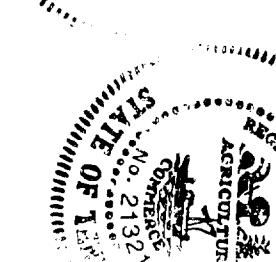
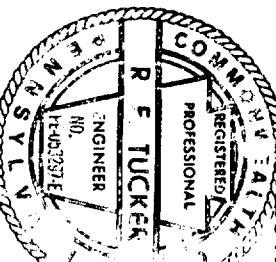
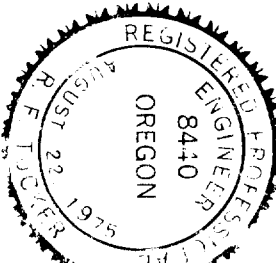
2.0 FREESTANDING AND ATTACHED PATIO STRUCTURES

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 FOR PATIO AND COMMERCIAL LATTICE STRUCTURES

97CD01

97CD02

97CD03

97CD04

97CD05

97CD06

97CD07

97CD08

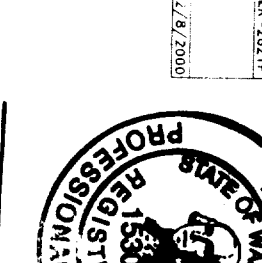
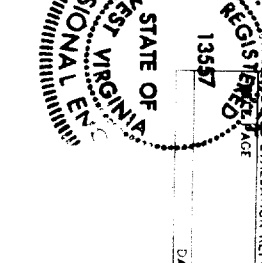
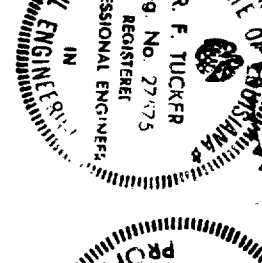
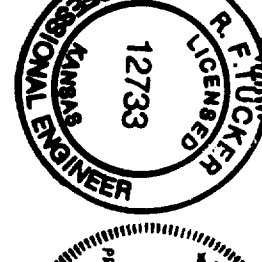
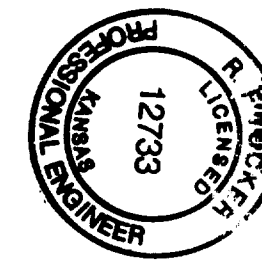
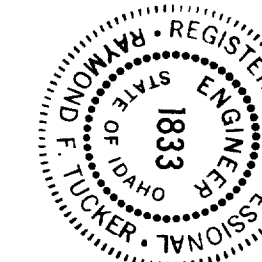
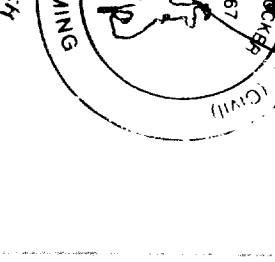
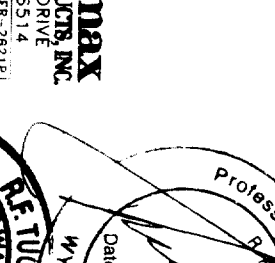
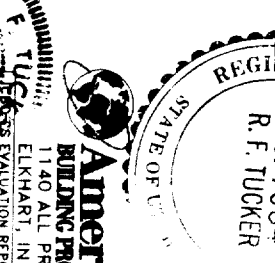
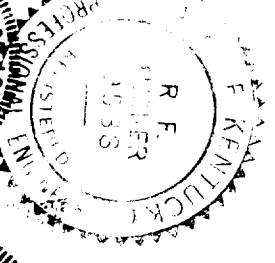
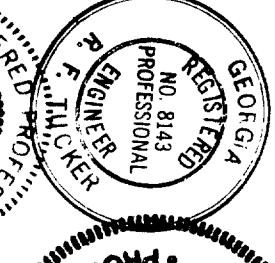
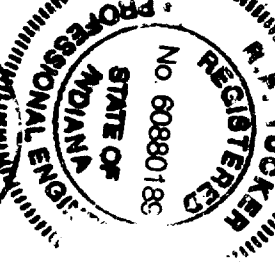
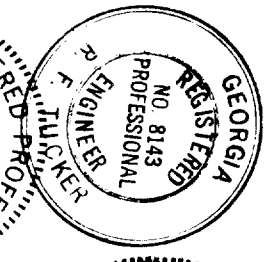
97CD09

97LT01

97LT02

97LT03

97LT04



Amerimax
BUILDING PRODUCTS, INC.
1140 ALL PRO DRIVE
ELKHART, IN 46514
DATE: 2/8/2000

MAR 19 2000
R. F. TUCKER
Professional Engineer
No. 8267
Date: _____
Civil

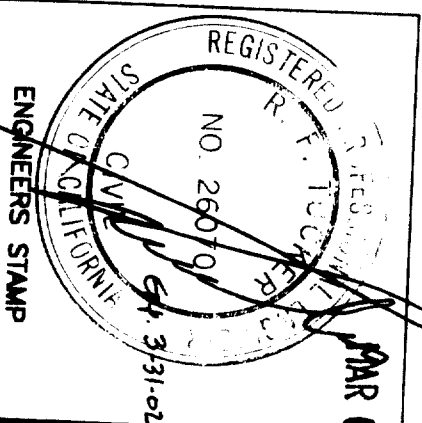
GENERAL NOTES:
(CONTINUED FROM SHEET NO. 1)

- 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 SPICES 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 LEVELLOAD AND WIND LOADS.
 2. OPEN LATTICE STRUCTURES SHALL NOT BE ENCLOSED.

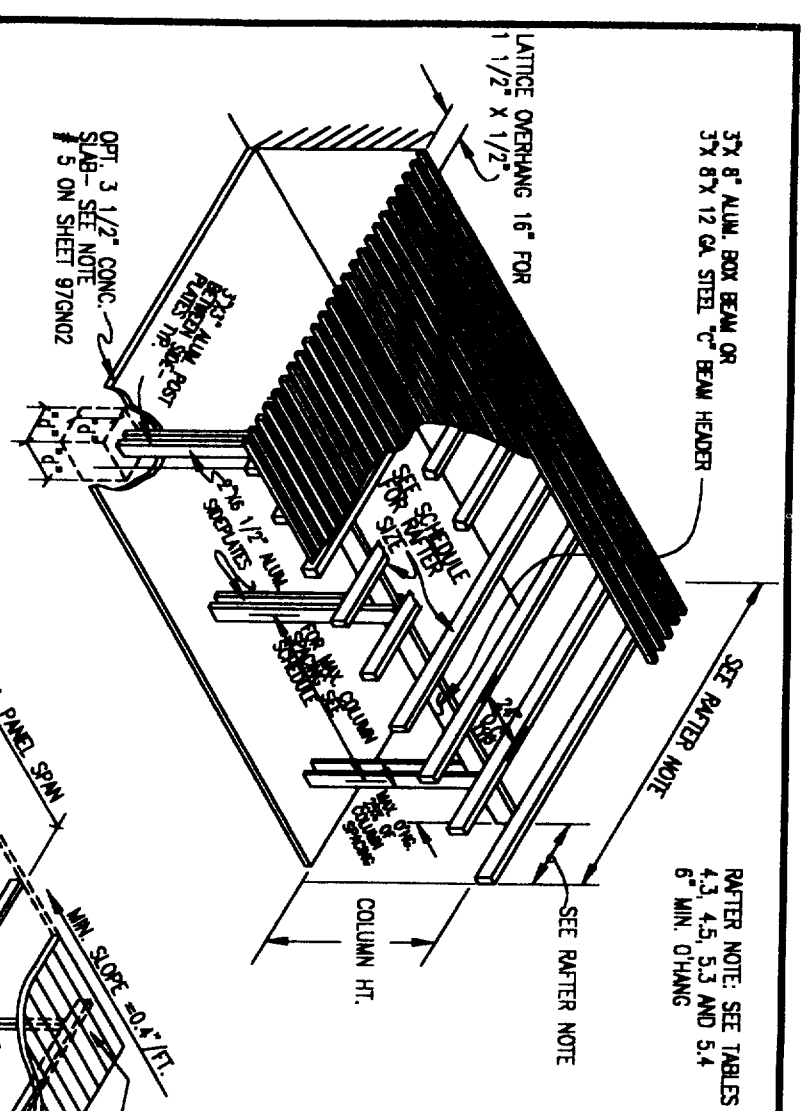


DATE	REVISION	DATE	REVISION
MAR 03 2000			

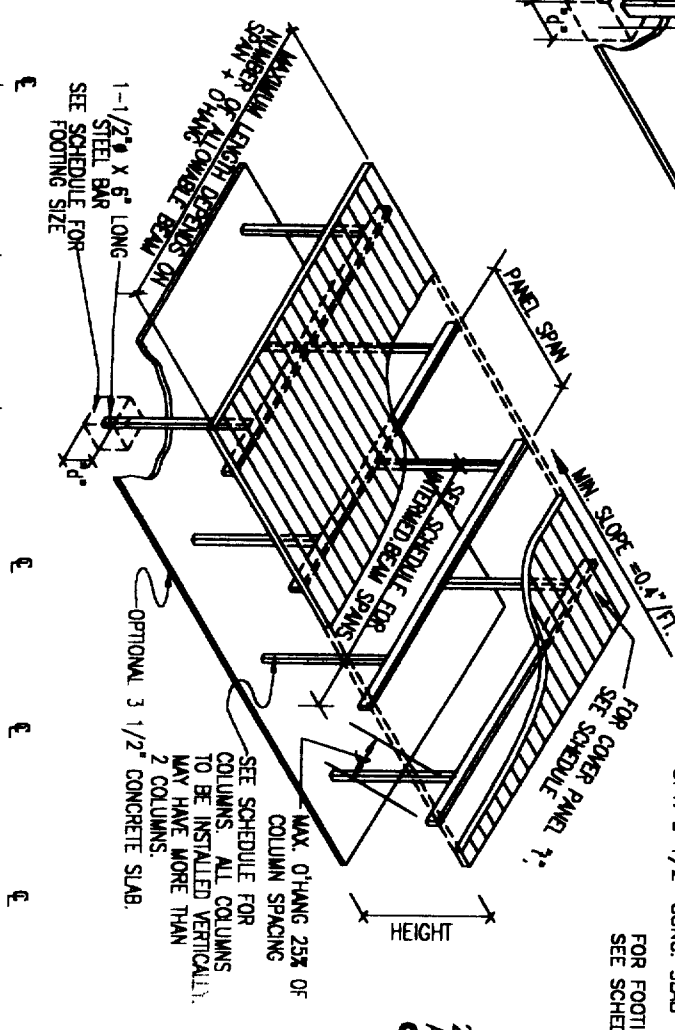
ENGINEERS STAMP	NO. 26079	REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA	CV	R. F. LOCKNER
MAR 31 2000		

SCALE:	KG	ICBO ES EVALUATION REPORT NO. ER-2621P
DRAWING OR PART:	NONE	GENERAL NOTES
DATE:	2/8/2000	NUMBER 97GN02
SHEET:		2 OF 2

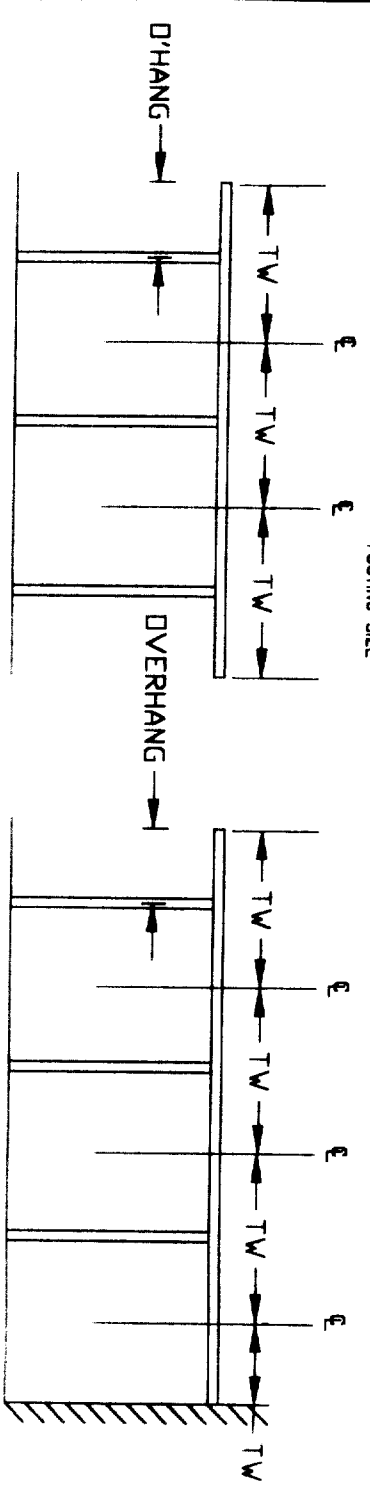
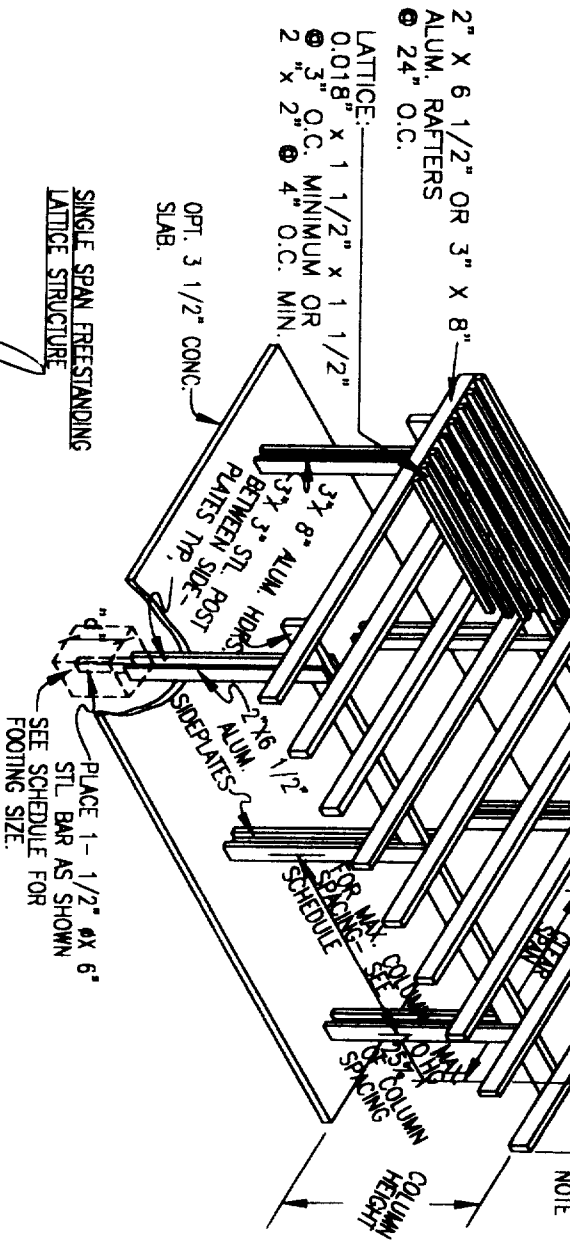
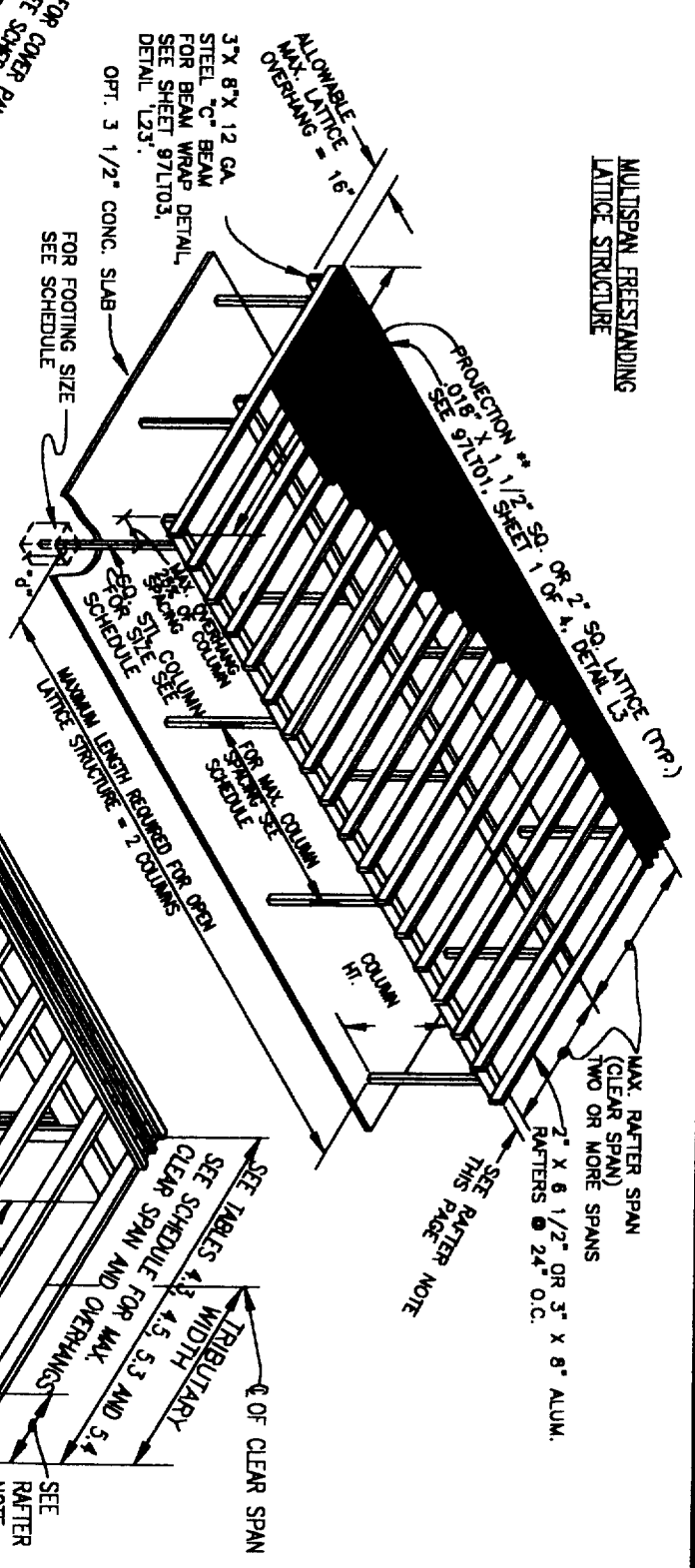
Amerimax	Engineering Services
MUNICIPAL, INC.	1140 All Pro Drive
	Elkhart, IN 46514



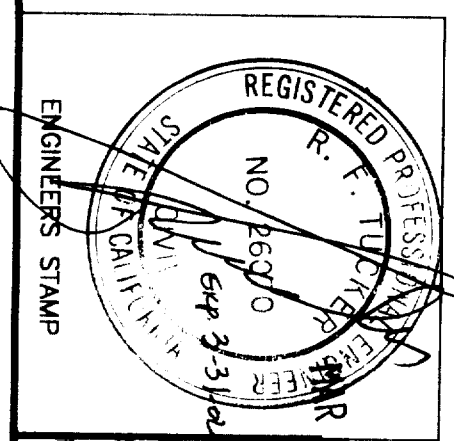
3" X 8" ALUM. BOX BEAM OR 4.3, 4.5, 5.3 AND 5.4 6" MIN. O/HANG
 RAFTER NOTE: SEE TABLES
 LATTICE OVERHANG 16" FOR 1 1/2" X 1 1/2"



MULTISPAN FREESTANDING LATTICE STRUCTURE
 ALLOWABLE MAX. LATTICE OVERHANG = 16"



TRIBUTARY WIDTH (TW) DIAGRAM



03 2000

DATE	REVISION	DATE	REVISION

Amerimax Engineering Services
BUILDING PRODUCTS, INC. 1140 All Pro Drive
 Elkhart, IN 46514

DRAWN BY: AJF
 SCALE: NONE
 DATE: 2/8/2000
 PROJECT NAME: ICB0 ES EVALUATION REPORT NO. ER-2621P
 DRAWING OR PART NUMBER: STRUCTURAL CONFIGURATIONS
 SHEET: 2 OF 2

20 FREESTANDING AND ATTACHED PATIO STRUCTURES

LIVE LOAD WIDTH	TRIB WIDTH	MAX COLUMN SPACING FOR ATTACHED PATIO		3" SQUARE STEEL HEADER		6" ROLL-FORMED C BEAM		10" ROLL-FORMED C BEAM		8" I-BEAM		6 1/2" ROLL-FORMED HEADER		ALASKIAN EXTRUDED HEADER		5 1/2" EXTRUDED HEADER		TRIB WIDTH	
		ON SLAB	OTHERS	FREE	ATTACHED	FREE	ATTACHED	FREE	ATTACHED	FREE	ATTACHED	FREE	ATTACHED	FREE	ATTACHED	FREE	ATTACHED		
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	12	5'-10"	4'-10"	23	25	23	25	23	25	23	25	23	25	23	25	23	25	23	12
	13	5'-10"	4'-10"	23	25	23	25	23	25	23	25	23	25	23	25	23	25	23	13

TABLE 23

COL	COLLUM SCHEDULE FOR ATTACHED PATIO STRUCTURES	MAX COL HEIGHT	COLLUM SCHEDULE FOR FREESTANDING STRUCTURES AND INTERMEDIATE COLLUMS FOR MULTISPAN STRUCTURES
A	0.027 x 3.7 SQUARE ALUM. COLLUM	11'-6"	COLLUM
B	0.027 x 3.7 SQUARE ALUM. COLLUM	8'-0"	E
C	0.027 x 3.7 SQUARE ALUM. COLLUM	11'-4"	F
D	FLUTED COLLUM ALUM. 0.047	12'-0"	G
E	3" CLOVERLEAF STEEL 0.047	12'-0"	H
F	3" SQUARE STEEL COLLUM	12'-0"	
G	4" SQUARE STEEL COLLUM	12'-0"	
H	5" SQUARE STEEL COLLUM	12'-0"	
J	6" SQUARE STEEL COLLUM	12'-0"	

ALL COLLUMS MAY BE REPLACED WITH A STRONGER COLLUM
 X MAY BE REPLACED W/ B, J
 Y MAY BE REPLACED W/ C, E, G
 LINEAR INTERPOLATION FOR ALL CALCULATIONS IS ALLOWED

SCHEDULE OF MAX COLUMN SPACING, FOOTING SIZE AND COLUMN TYPE FOR PATIO APPLICATIONS

LIVE LOAD WIDTH	TRIB WIDTH	0.027 x 3.7" BEAM		0.027 x 3.7" BEAM		DOUBLE 0.027 x 2.2" BEAM	
		MAX COLUMN SPACING	CONC. FOOTER SIZE	MAX COLUMN SPACING	CONC. FOOTER SIZE	MAX COLUMN SPACING	CONC. FOOTER SIZE
10	4	12'-1"	27	14'-1"	26	13'-3"	27
	5	10'-9"	27	11'-10"	26	10'-9"	28
	6	10'-9"	25	10'-7"	26	10'-0"	28
	7	10'-9"	25	10'-7"	26	10'-0"	28
	8	10'-9"	25	10'-7"	26	10'-0"	28
	9	10'-9"	25	10'-7"	26	10'-0"	28
	10	10'-9"	25	10'-7"	26	10'-0"	28
	11	10'-9"	25	10'-7"	26	10'-0"	28
	12	10'-9"	25	10'-7"	26	10'-0"	28
	13	10'-9"	25	10'-7"	26	10'-0"	28

- GENERAL METHOD FOR USING THESE TABLES**
1. CHOOSE FREESTANDING OR ATTACHED COMMERCIAL OR PATIO STRUCTURE
 2. CHOOSE PROJECTION, WIDTH, OVERHANG, WIND LOAD AND LIVE LOAD
 3. FIND TRIBUTARY WIDTH FROM TABLE 2.8 AND DRAWINGS ON 97502 OF "STRUCTURAL CONFIGURATIONS"
 4. CHOOSE A PANEL FROM SHEET 1 THAT HAS ADEQUATE CLEARSPAN FOR YOUR NEEDS
 5. CHOOSE A HEADER FROM SHEETS 2.5 THAT HAS ADEQUATE COLUMN SPACING
 6. USE THE FOOTER SIZE SHOWN
 7. FOR SINGLE SPAN ATTACHED PATIO, USE THE POST SHOWN.
 8. LOOK AT THE TABLES PROVIDED FOR ALL OTHERS.
 9. FIND THE O.C SPACING OF WALL CONNECTIONS ON TABLE 6.5
 10. FIND THE NUMBER OF PANEL TO HEADER FASTENERS ON TABLE A OF 97C004 DETAIL A/E
- FOR CONCRETE PATIO SLABS**
1. FOLLOW 1-4 ABOVE
 2. CHOOSE A COLUMN LENGTH IF USING COLUMN "A" (8'-0" OR 10'-0")
 3. FIND THE MAXIMUM COLUMN SPACING ON SLABS FROM TABLE 2.1
 4. CHOOSE A COLUMN TYPE THAT HAS THE SAME OR GREATER COLUMN SPACING FOR THAT TRIB WIDTH AND LIVE AND WIND LOAD
 5. USE COLUMN TYPE "B" OR STRONGER (UNLESS USING COLUMN "A")
 6. FOLLOW STEP 8, 9 AND 10 ABOVE

TRIBUTARY WIDTHS FOR SINGLE SPAN ATTACHED STRUCTURES FOR GIVEN PROJECTION AND OVERHANG (ROUNDED UP)

PROJ (FT)	0	1	2	3	4	5	6	7	8
6	0	1	2	3	4	5	6	7	8
7	0	1	2	3	4	5	6	7	8
8	0	1	2	3	4	5	6	7	8
9	0	1	2	3	4	5	6	7	8
10	0	1	2	3	4	5	6	7	8
11	0	1	2	3	4	5	6	7	8
12	0	1	2	3	4	5	6	7	8
13	0	1	2	3	4	5	6	7	8
14	0	1	2	3	4	5	6	7	8
15	0	1	2	3	4	5	6	7	8
16	0	1	2	3	4	5	6	7	8
17	0	1	2	3	4	5	6	7	8
18	0	1	2	3	4	5	6	7	8
19	0	1	2	3	4	5	6	7	8
20	0	1	2	3	4	5	6	7	8
21	0	1	2	3	4	5	6	7	8
22	0	1	2	3	4	5	6	7	8
23	0	1	2	3	4	5	6	7	8
24	0	1	2	3	4	5	6	7	8
25	0	1	2	3	4	5	6	7	8

REGISTERED PROFESSIONAL ENGINEER
R. F. TUCKER
 NO. 26070
 Exp. 3-31-02
 MAR 03 2000
 STATE OF CALIFORNIA
 CIVIL ENGINEER

Amerimax
 ENGINEERING
 1140 ALL PRO DRIVE
 ELKHART, IN 46514

ICBO ES EVALUATION REPORT ER-2621P
 HEADERS, SPANS, COLUMN SPACING,
 FOOTING SIZES AND COLUMN TYPE FOR
 FREESTANDING AND ATTACHED
 PATIO STRUCTURES
 SHEET 3 OF 8
 DATE: 2/8/2000

3.0 FREESTANDING AND ATTACHED COMMERCIAL STRUCTURES

Large table with multiple columns for live load, width, column spacing, and various structural parameters for different beam types (4' B-EAK, 7' B-EAK, 10' B-EAK, 3' OVERLEAF STEEL HEADER, 6' STEEL C BEAM, 10' STEEL C BEAM) and exposure categories (70 & 90 MPH). Includes sub-tables 3.1, 3.2, and 3.3.

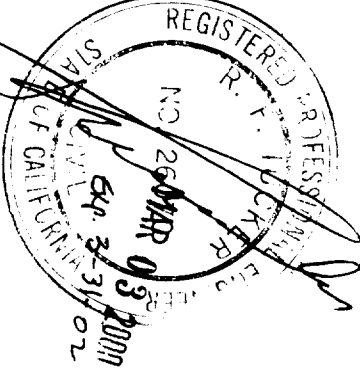
Table 3.1: 5 1/2" EXTRUDED HEADER. Columns include LIVE LOAD, PRO. JEC. TON, MAX. COLUMN SPACING, and CONTS. FOOTER SIZE. Rows show values for 70 MPH EXPOSURE B and C.

Table 3.2: 90 MPH EXPOSURE B. Columns include LIVE LOAD, PRO. JEC. TON, MAX. COLUMN SPACING, and CONTS. FOOTER SIZE. Rows show values for 90 MPH EXPOSURE B.

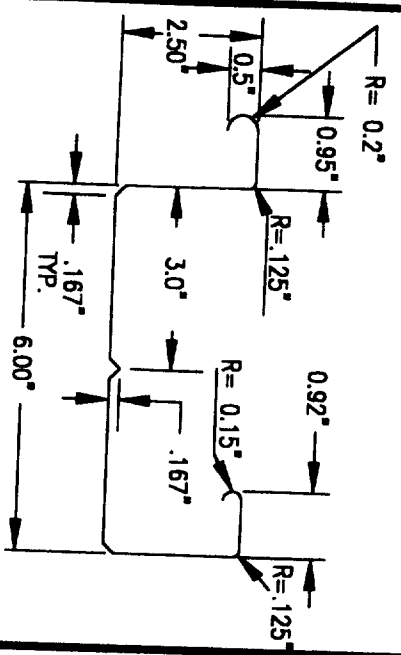
Table 3.3: 90 MPH EXPOSURE C. Columns include LIVE LOAD, PRO. JEC. TON, MAX. COLUMN SPACING, and CONTS. FOOTER SIZE. Rows show values for 90 MPH EXPOSURE C.

Table 3.3: MAXIMUM COLUMN HEIGHT. Columns include COL. DESCRIPTION, SINGLE SPAN, and FREESTANDING OR MULTISPAN ATTACHED. Rows list various column types and their corresponding heights.

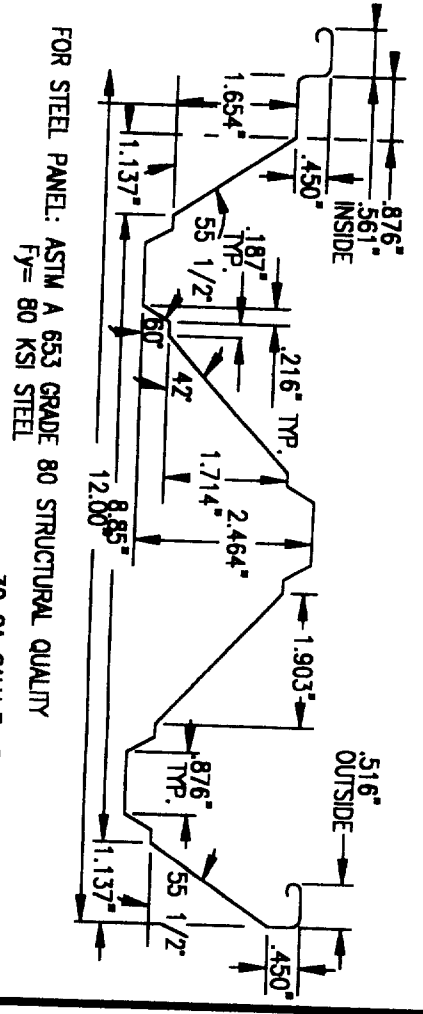
Table 3.3: 90 MPH EXPOSURE B and C. Similar to Table 3.1, showing values for 90 MPH EXPOSURE B and C with different column spacing and header configurations.



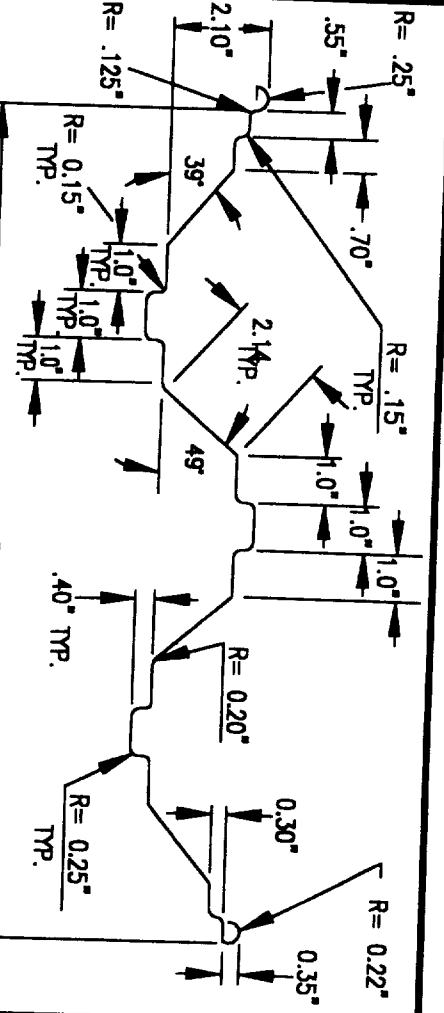
Amerimax BUILDING PRODUCTS, INC. 1140 ALL PRO DRIVE ELKHART, IN 46514. Includes contact information and a note: 'ICBD ES EVALUATION REPORT ER-2821P... DATE: 2/8/2000'.



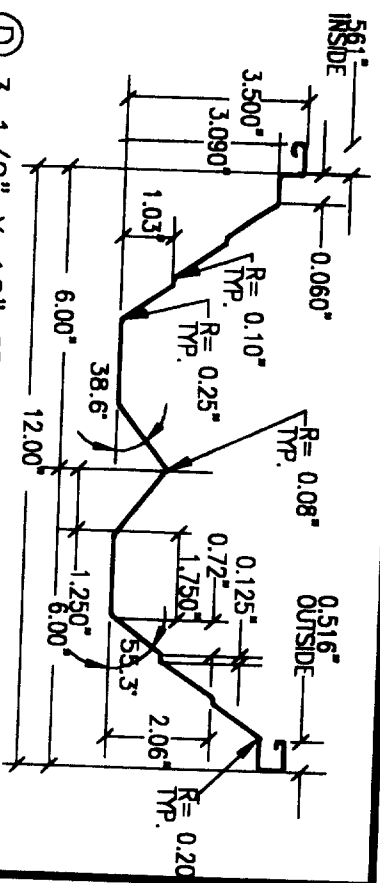
(A) 6" FLAT PAN
6" FLAT PAN
(3006-H391 ALUM. ALLOY)



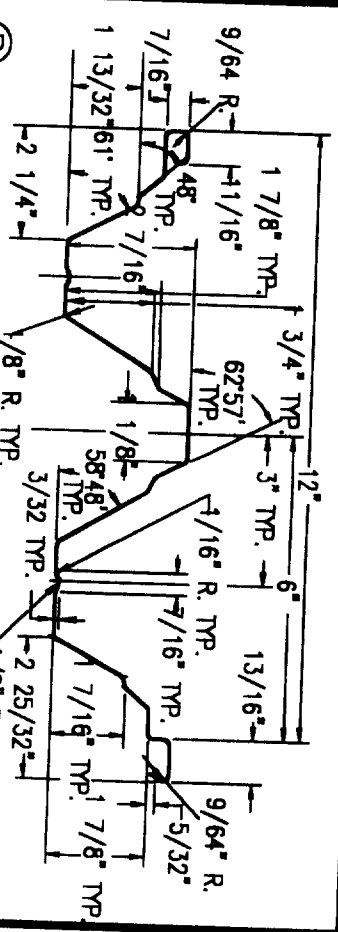
(B) 12" STRUCTURAL PANEL (3006-H391 ALUM. ALLOY)
FOR STEEL PANEL: ASTM A 653 GRADE 80 STRUCTURAL QUALITY
FY= 80 KSI STEEL
30 GA GALV T=.0157
28 GA GALV T=.0187



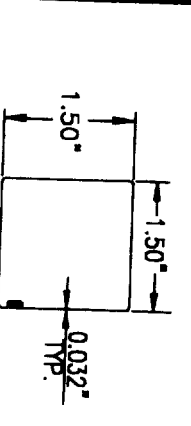
(C) 18" STRUCTURAL PANEL (3006-H391 ALUM. ALLOY)
FOR STEEL PANEL: ASTM A 653 GRADE 50, S0 CLASS 1
FY=50 KSI STEEL
30 GA GALV T=.0157



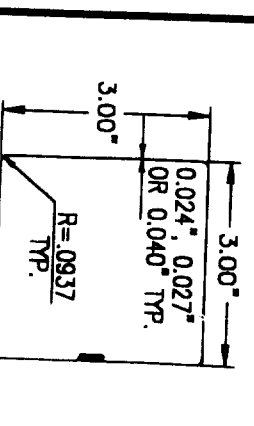
(D) 3 1/2" X 12" STRUCTURAL PANEL



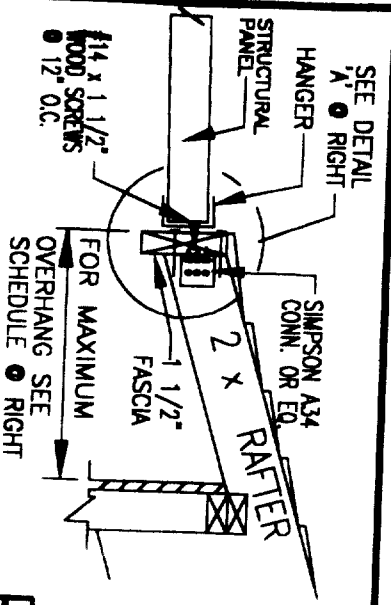
(B) ALTERNATE-12" STRUCTURAL PANEL
(3006-H391 ALUM. ALLOY)



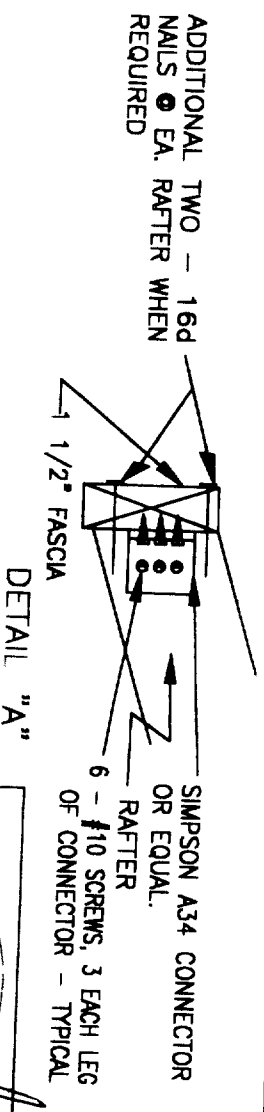
(E) 1 1/2" SQUARE COLUMN
(3003-H16 ALUM. ALLOY)



(F) 3" SQUARE COLUMN
(3003-H16 ALUM. ALLOY)



(G) ALTERNATE EAVE ATTACHMENT

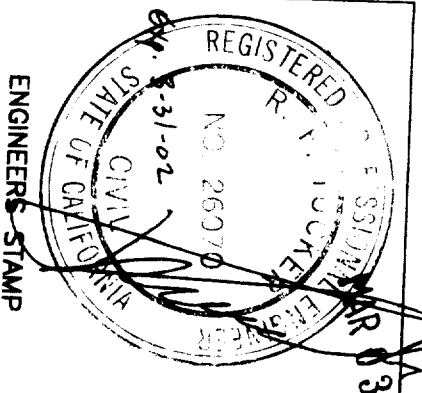


DETAIL "A"

SCHEDULE FOR MAXIMUM RAFTER OVERHANGS FOR AWNING PROJECTIONS

PANEL	2 X 4 RAFTERS @ 16 O.C.		2 X 4 RAFTERS @ 24 O.C.		2 X 8 RAFTERS @ 24 O.C.	
	LEVEL LOADS (P.S.F.)	LEVEL LOADS (P.S.F.)	LEVEL LOADS (P.S.F.)	LEVEL LOADS (P.S.F.)	LEVEL LOADS (P.S.F.)	LEVEL LOADS (P.S.F.)
8'	10	20	17	14	11	8
10'	26	17	14	12	9	8
12'	23	15	12	10	8	7
13/4'	21	13	11	9	7	7
16'	19	13	11	9	7	7
18'	18	12	10	8	7	7
19'	17	12	10	8	7	7

REQUIRES ADDITIONAL 2 - 16d NAILS @ EACH RAFTER

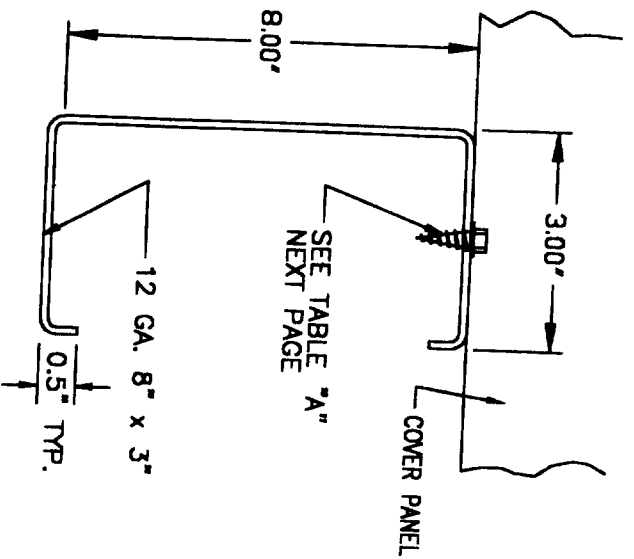


DATE: 3/2000

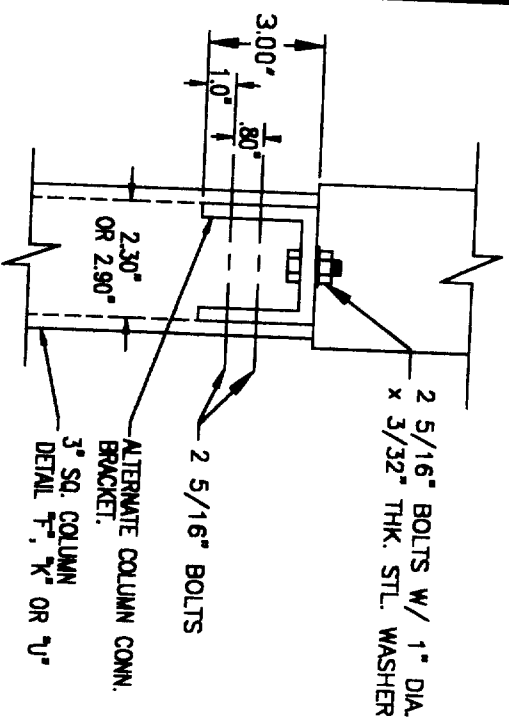
REVISION: _____ DATE: _____ REVISION: _____

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1140 All Pro Drive Elkhart, IN 46514

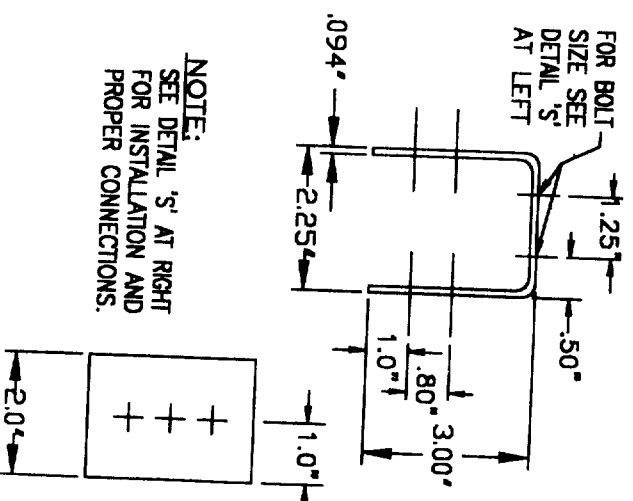
DRAWING OR PART NAME: ICBO ES EVALUATION REPORT NO. ER-2621P
SCALE: NONE
DATE: 2/8/2000
DRAWING NUMBER: 97CD01
SHEET: 1 OF 9



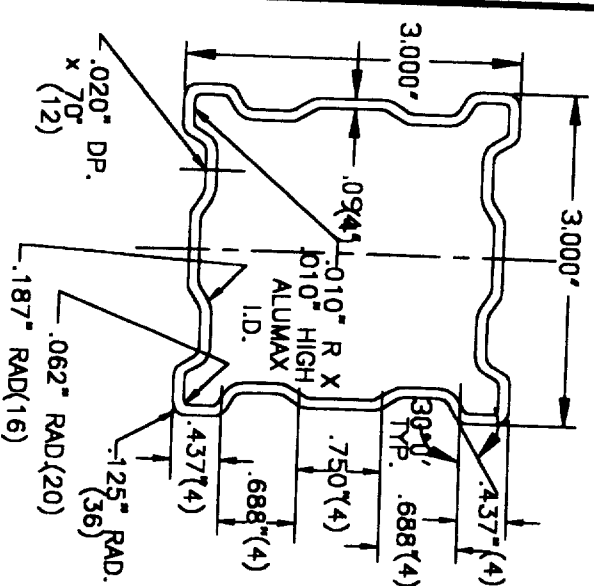
Ⓡ STEEL "C" CHANNEL HEADER
(STEEL A-653 Fy=50,000 PSI)



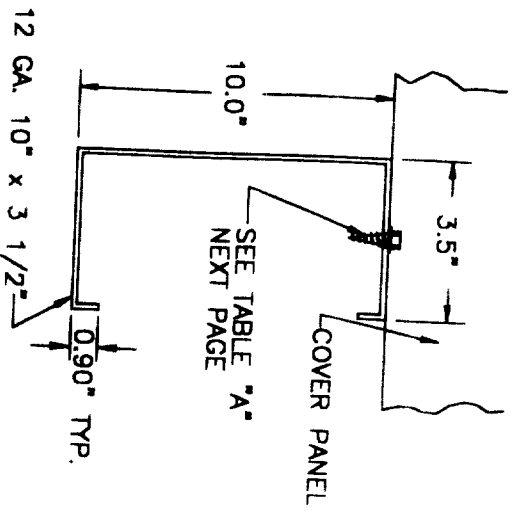
Ⓢ 3" COLUMN CONNECTIONS FOR FASCIA HEADERS



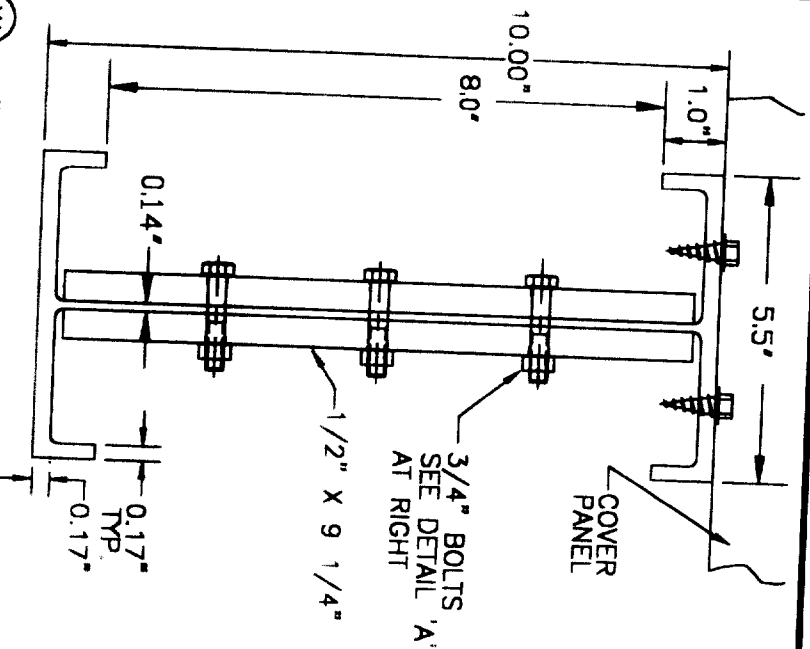
Ⓣ 3" ALTERNATE COLUMN CONN. BRACKETS
(STEEL A-653 Fy=40,000 PSI)



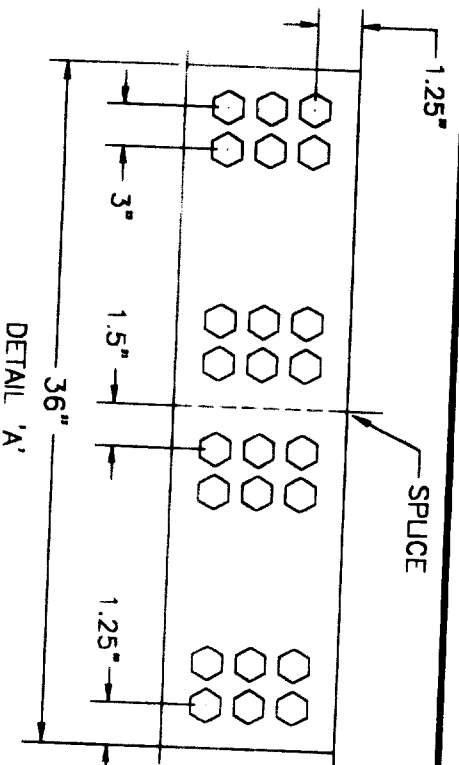
Ⓤ FLUTED COLUMN
(3" ALUM. 6063-T6)
t = 0.062" UNLESS OTHERWISE NOTED



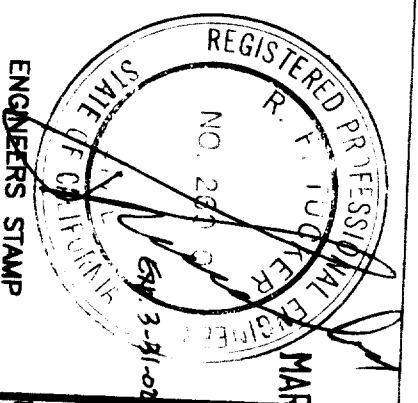
Ⓥ STEEL "C" CHANNEL HEADER
(STEEL A-653 Fy=50,000 PSI)



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



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



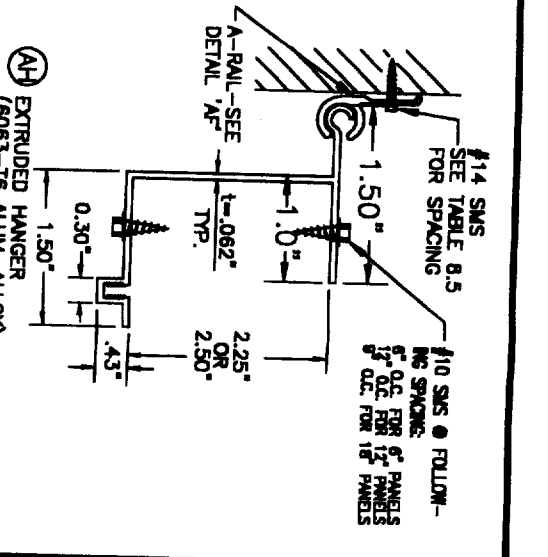
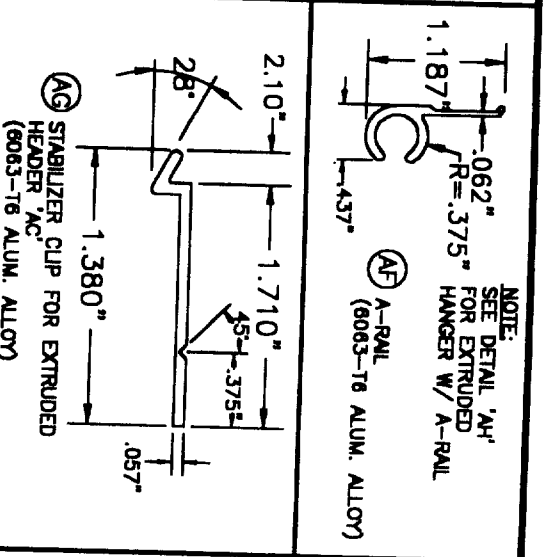
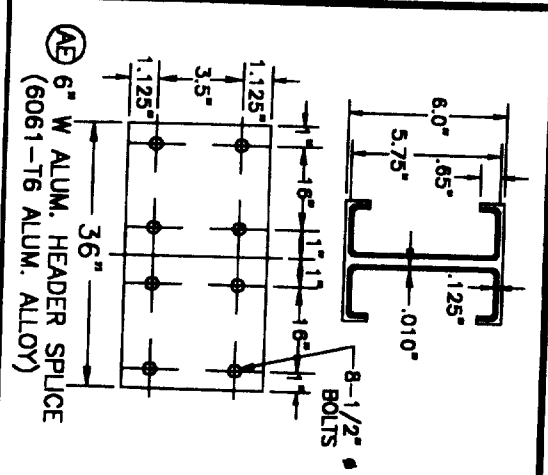
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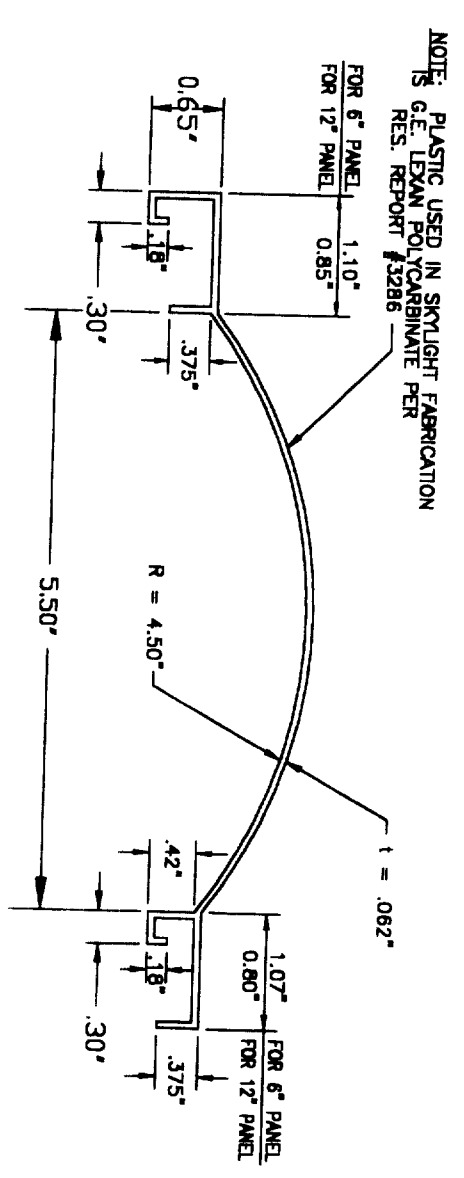
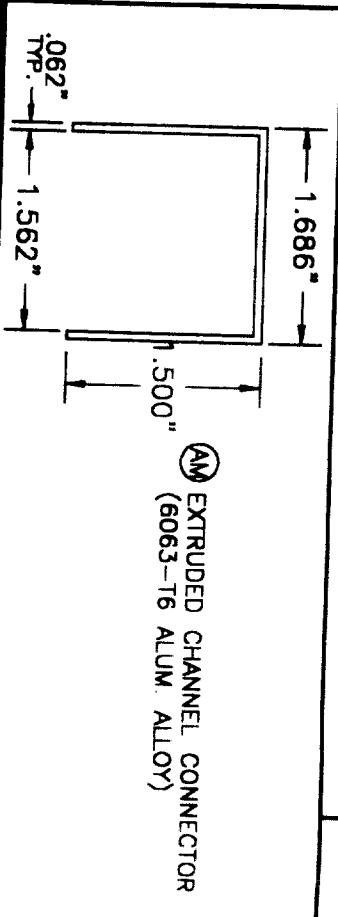
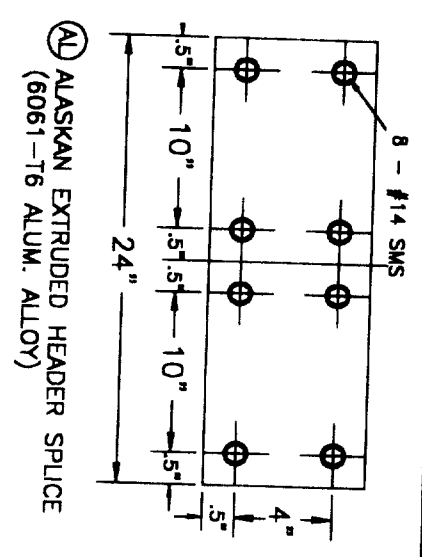
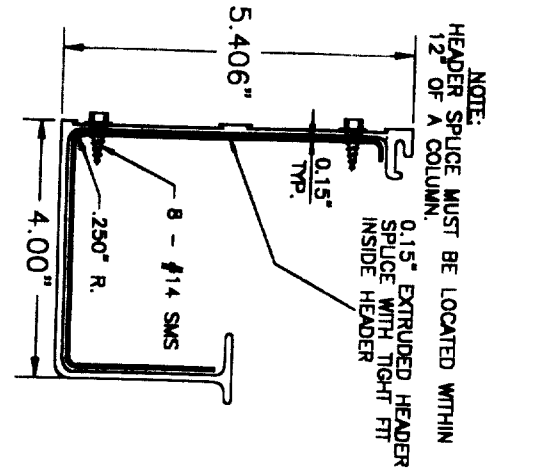
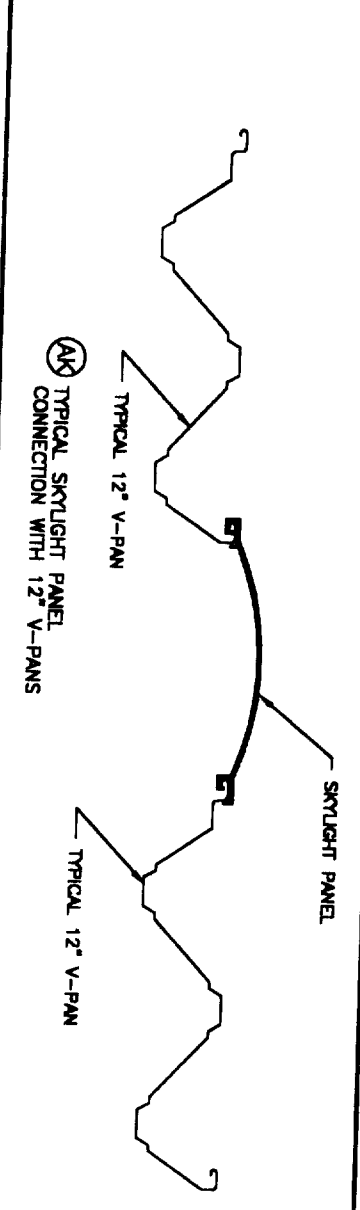
DRAWN BY: KG	ICBO ES EVALUATION REPORT NO. ER-2621P
SCALE: NONE	DRAWING OR PART NAME: COMPONENT PARTS & CONNECTION DETAILS
DATE: 2/8/2000	REV. PART NUMBER: 97CD03
	SHEET: 3 OF 9



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

LEVELLOAD (PSF)	*6" PANEL SPANS			*12" PANEL SPANS		
	t ₁	t ₂	t ₃	t ₁	t ₂	t 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 **AD**



NOTE: SEE SCHEDULE ABOVE FOR ALLOWABLE SPANS FOR PANELS ADJACENT TO SKYLIGHT PANELS & NUMBER OF ROOF PANELS NEEDED FOR 1 SKYLIGHT PANEL

AD SKYLIGHT PANEL

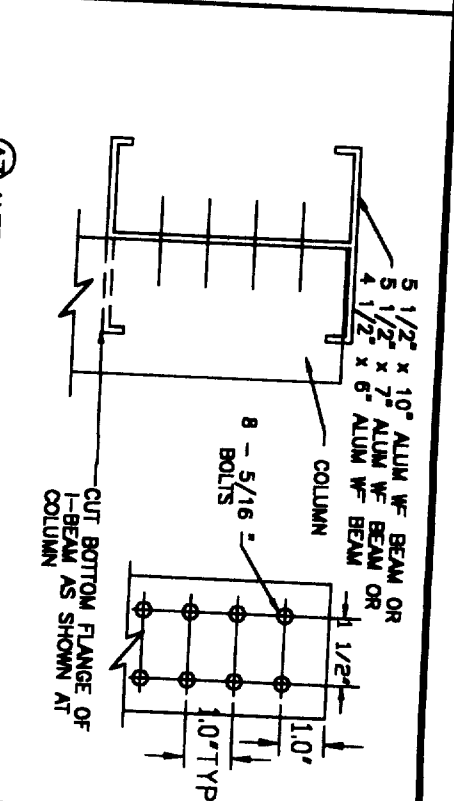
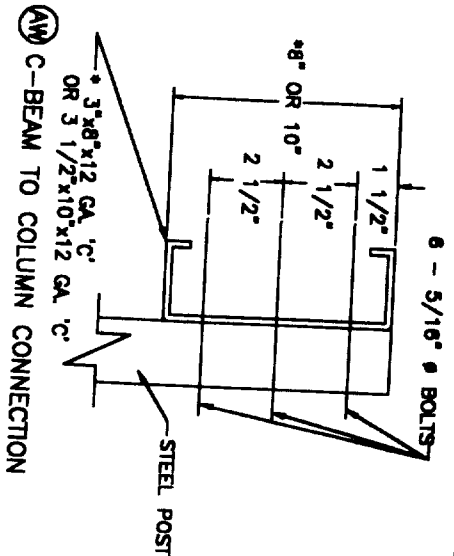
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA
NO. 26070
R. I. JACKSON
6493-3119
APR 09/2000

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Engineering Services
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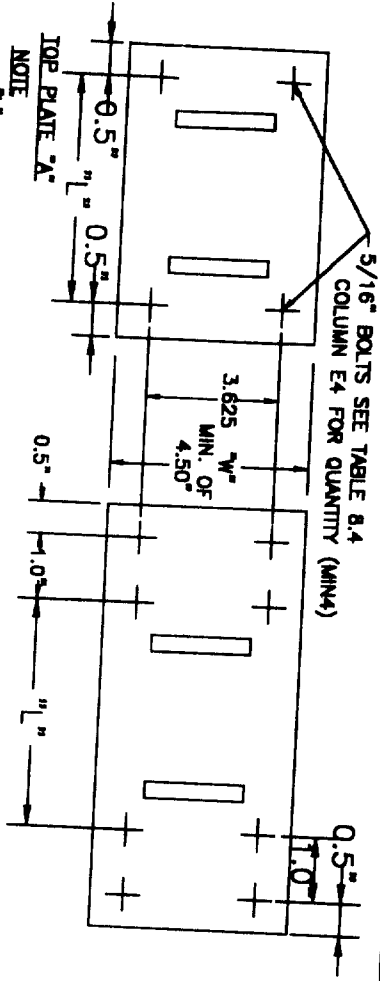
ICBO ES EVALUATION REPORT NO. ER-2621P

DATE	REVISION	DATE	REVISION

SCALE: NONE
DRAWING OR PART NAME: COMPONENT PARTS & CONNECTION DETAILS
DATE: 2/8/2000
REVISED NUMBER: 97CD05
SHEET: 5 OF 9

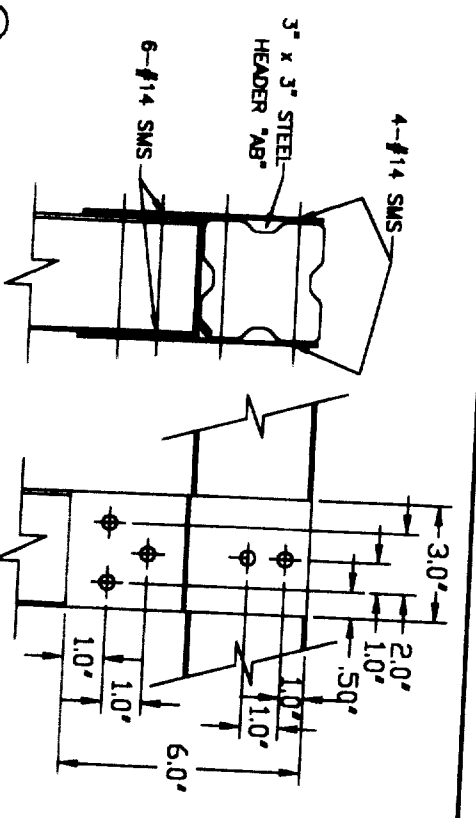


AZ ALTERNATE - 4 1/2" X 6" X 5 1/2" X 7" ALUM. W BEAM CONNECTION DETAIL

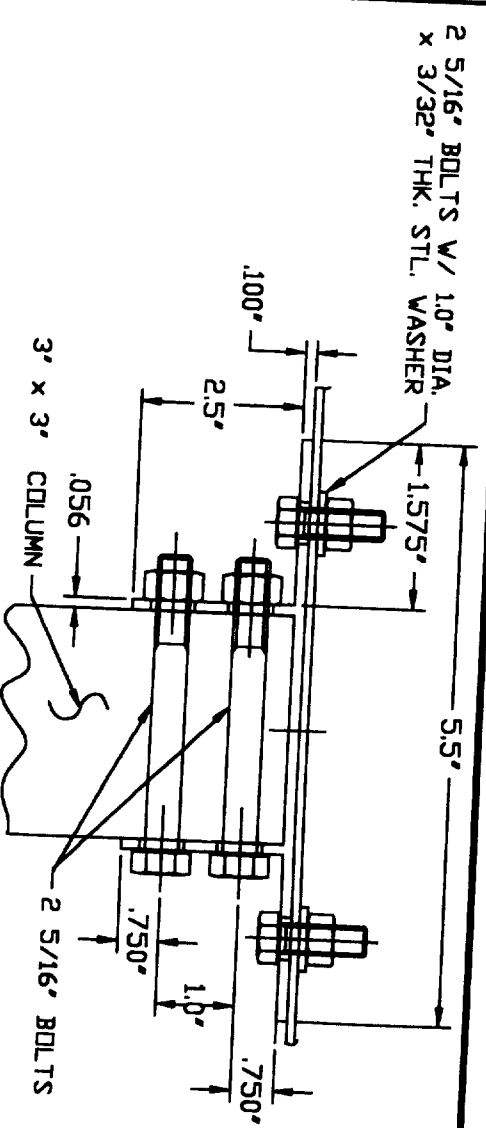


NOTE
T = COLUMN SIZE + 1"
W = COLUMN SIZE + 1/2" WITH A MINIMUM OF 4.5"

BD TOP PLATES 'A' & 'B' AND SCHEDULE 'B' FOR TOP PLATE CONNECTIONS WITH 'T' BEAMS (Y, Z, AA) ON STEEL POSTS

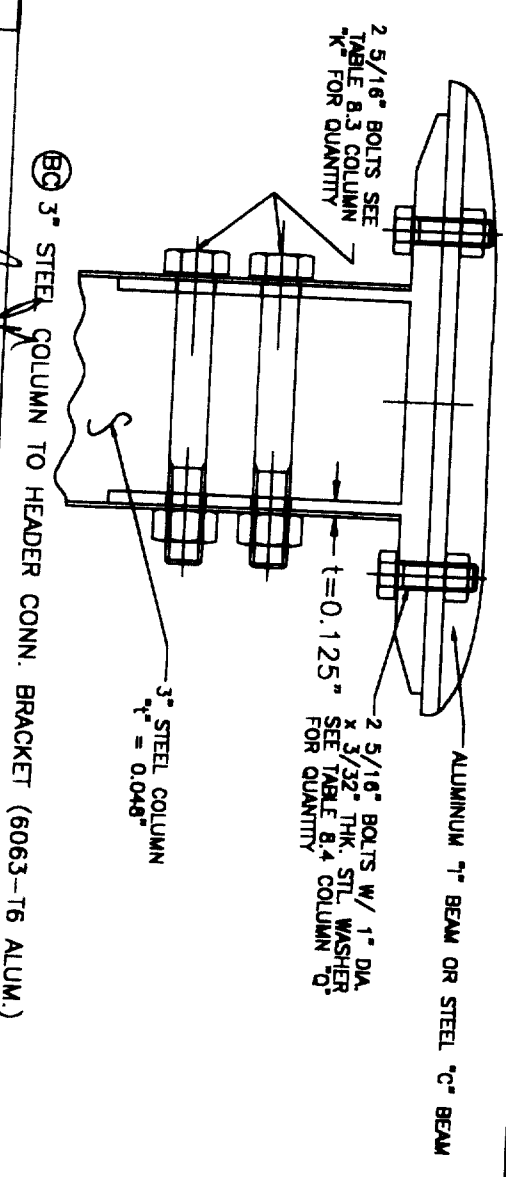


AY COLUMN TO HEADER CONNECTION FOR 3" X 3" STEEL HEADER 'AB'



ALL 'T' BEAMS & 'C' BEAMS USE TABLE 8.3 COLUMN 'N' FOR QUANTITY OF HORIZONTAL BOLTS
 USE TABLE 8.4 COLUMN 'N' FOR VERTICAL BOLTS.

AX ALTERNATE 3" SQ. COLUMN CONNECTOR BRACKET (6063-T6 ALUM. ALLOY)



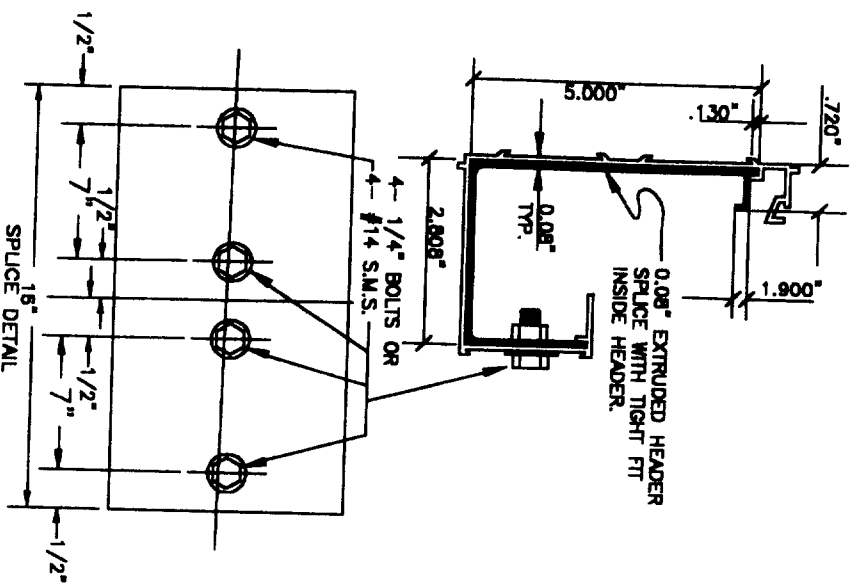
BC 3" STEEL COLUMN TO HEADER CONN. BRACKET (6063-T6 ALUM.)

MAR 03 2008

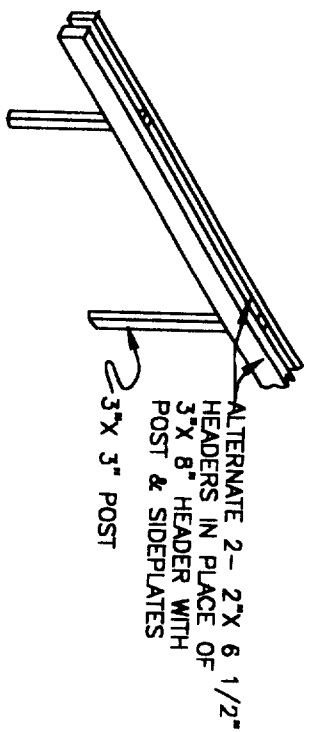
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DATE:	2/8/2000	REVISION:	
SCALE:	NONE	DATE:	
DRAWING OR PART NUMBER:	97CD07	REVISION:	
PROJECT NUMBER:	97CD07	DATE:	
DRAWING NUMBER:	97CD07	REVISION:	

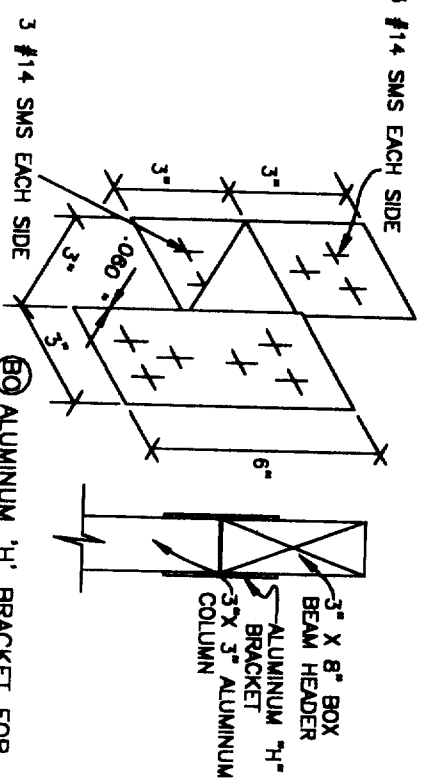
ENGINEERS STAMP
 EXY 3-31-02



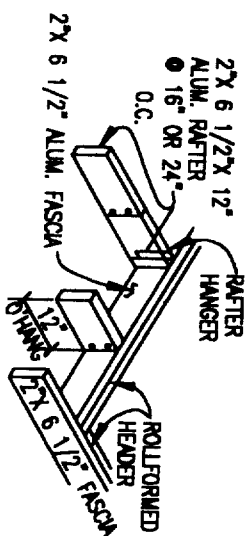
BJ 5 1/2" EXTRUDED HEADER SPLICE
(6061-T6 ALUM. ALLOY)



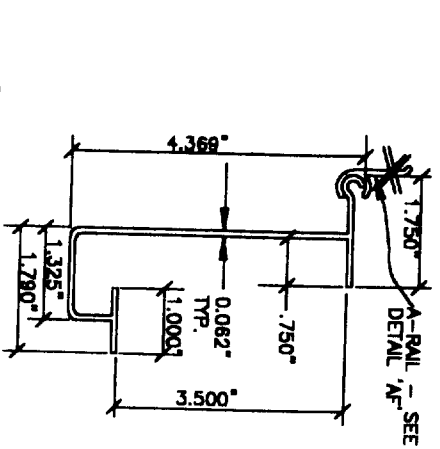
BK ALTERNATE 2-2" X 6 1/2" HEADERS



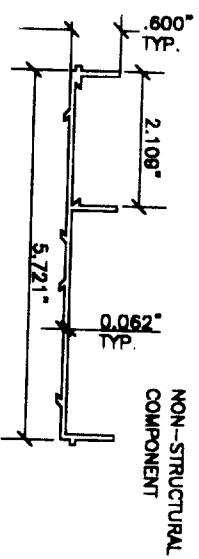
BO ALUMINUM 'H' BRACKET FOR
CONNECTING COLUMN TO HEADER
(6063-T6 ALUM. ALLOY)



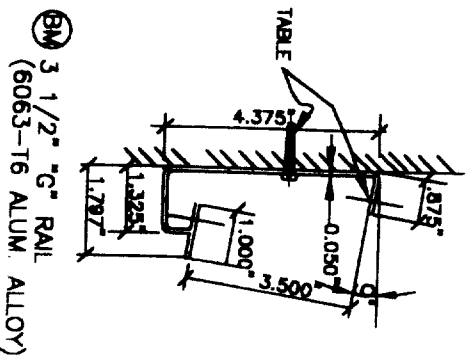
BL ALTERNATE - DECORATIVE
FASCIA TRIM



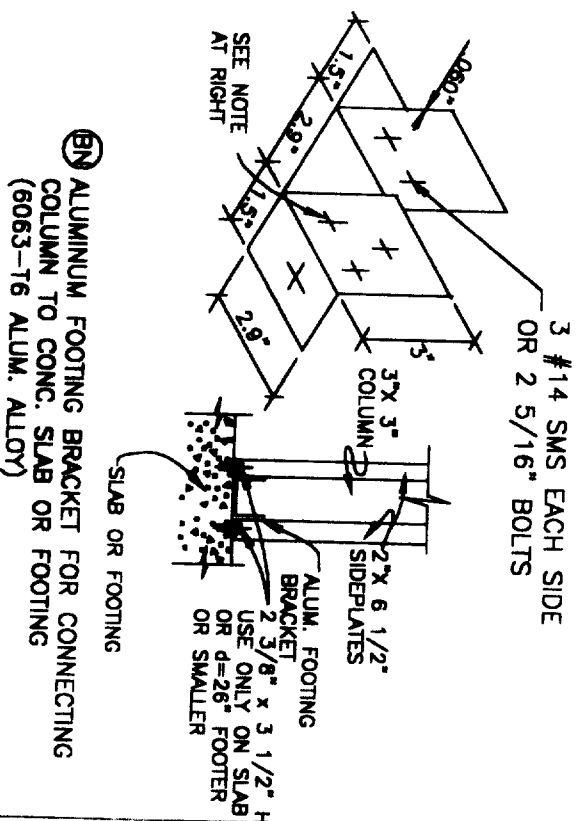
BP 3 1/2" 'J' HANGER
(6063-T6 ALUM. ALLOY)



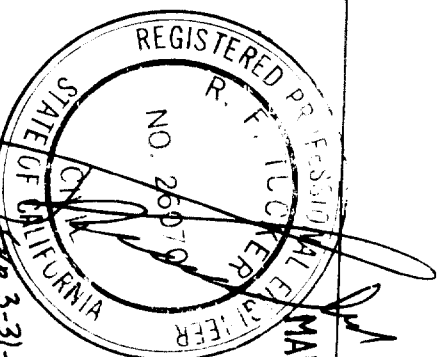
BQ 5 1/2" EXTRUDED SIDE FASCIA
(6063-T6 ALUM. ALLOY)



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



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



ENGINEERS STAMP

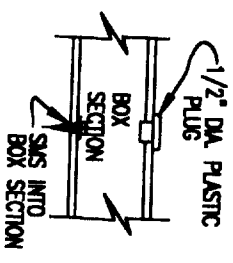


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DRAWN BY: KG
SCALE: NONE
DATE: 2/8/2000

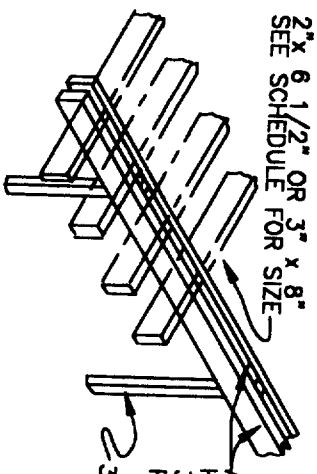
ICBO ES EVALUATION REPORT NO. ER-2621P
DRAWING NUMBER: 97CD09

SHEET 9 OF 9

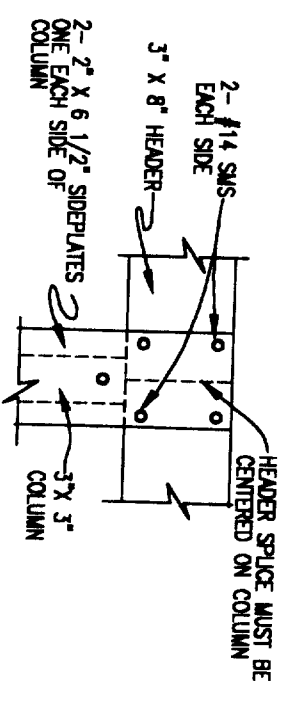


NOTE: USE PLASTIC PLUG TO FILL 1/2" DIA. ACCESS HOLES USED WHEN ATTACHING SMS INTO ANOTHER BOX SECTION IN WHICH THE SMS LENGTH WOULD EXCEED 2 1/2".

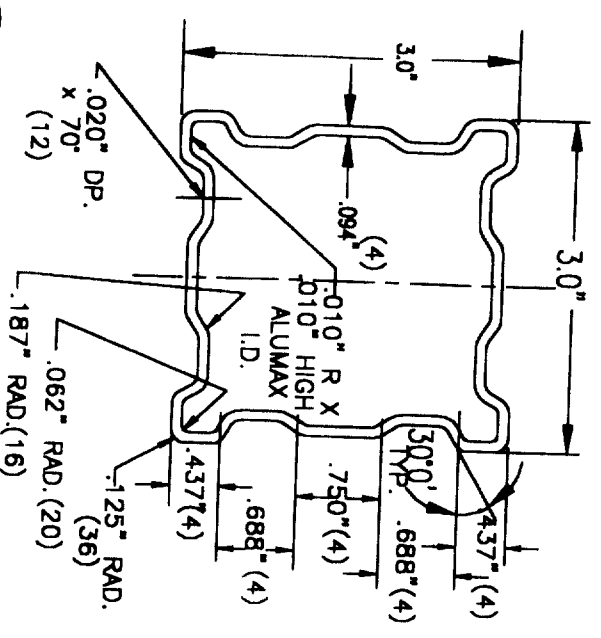
(L10) PLASTIC PLUG DETAIL



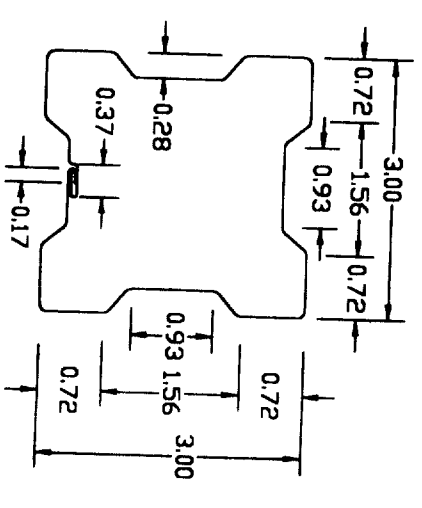
(L11) ALTERNATE 2-2" X 6 1/2" HEADERS



(L16) HEADER SPLICE DETAIL



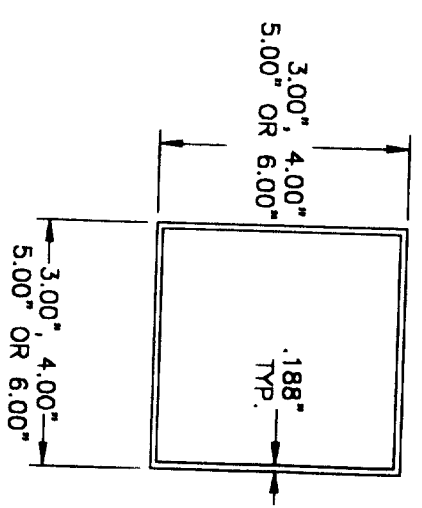
(L31) FLUTED COLUMN
(3" ALUM. 6063-T6)
R_{FL} = 0.062" UNLESS OTHERWISE NOTED



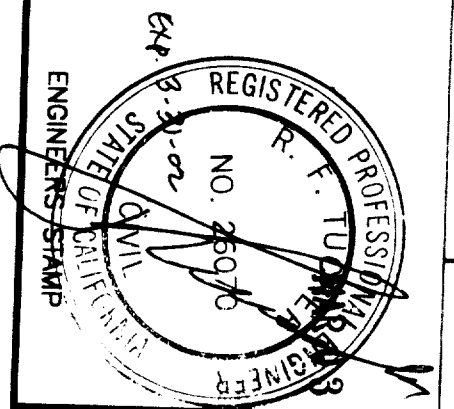
T (IN) = 0.024, 0.030, 0.040 (ALUM)
= 0.048 (STEEL)

NOTE:
COLUMNS MAY BE TRIMMED W/FLEX-ALUM. FACING.

(L30) 3" ALTERNATE COLUMN
(3003-H16 ALUM. ALLOY OR A-446 Fy=40 KSI STEEL)



(L32) 3", 4", 5" OR 6" STEEL COLUMN
Fy=36 KSI

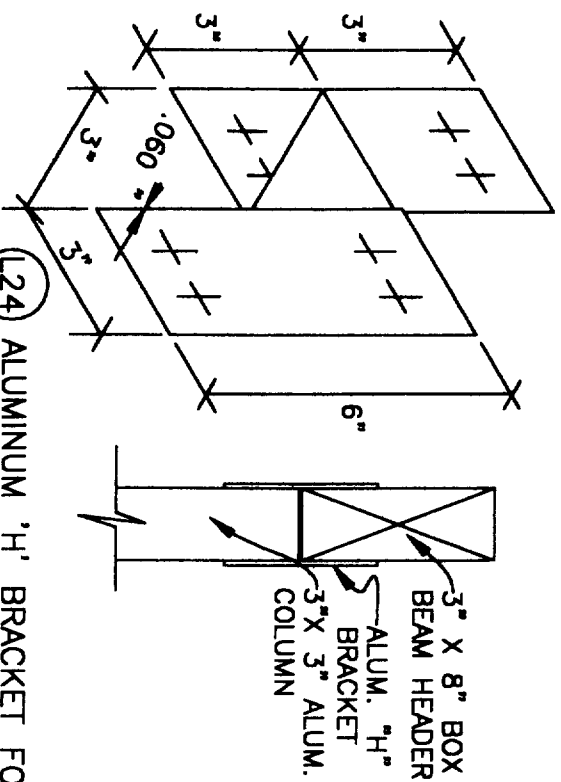


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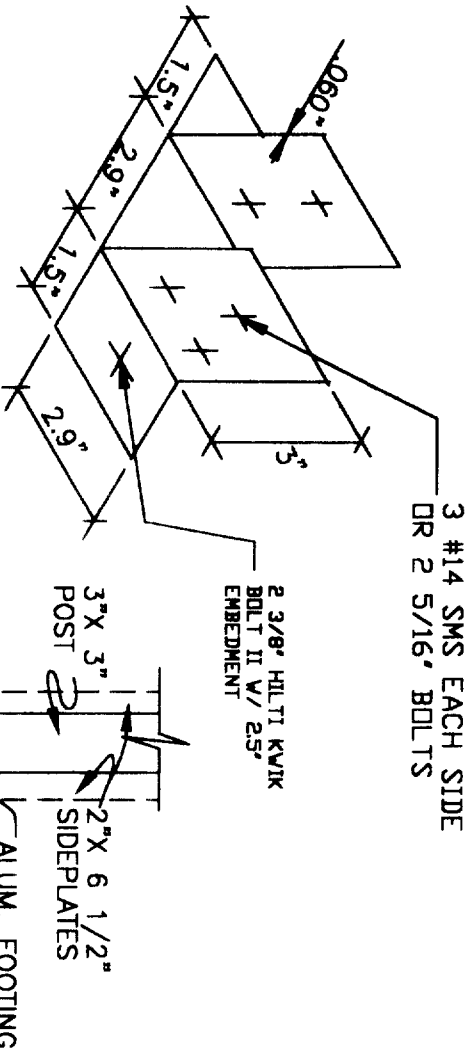
ICBO ES EVALUATION REPORT NO. ER-2621P

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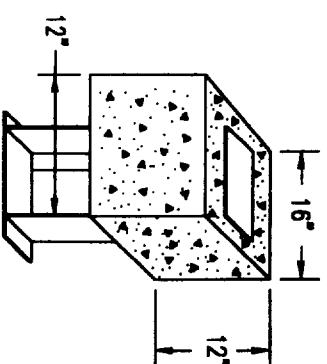
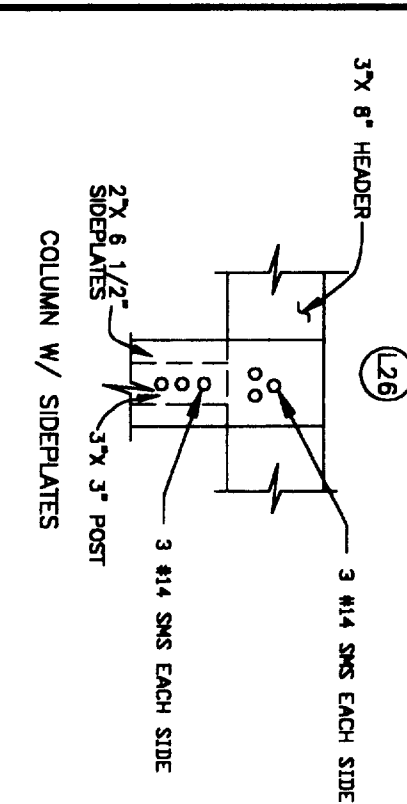
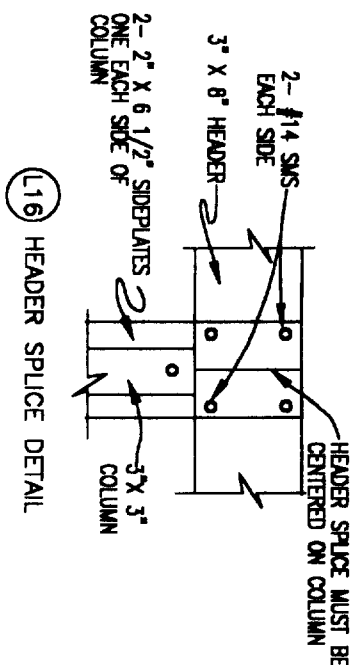
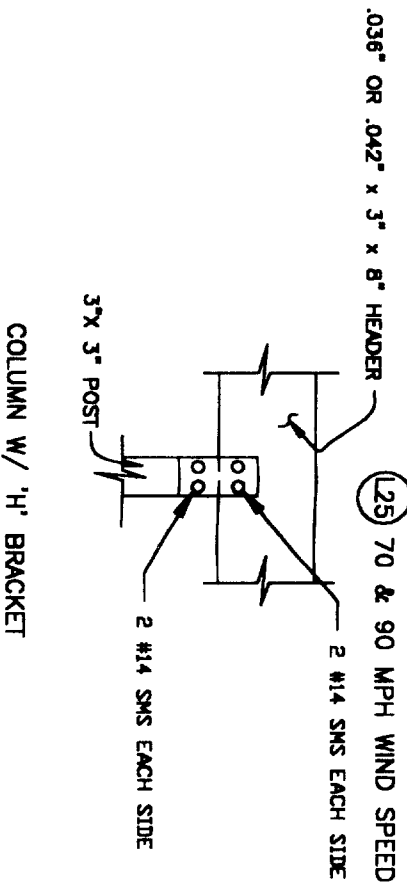
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DRAWING NAME: DRAWING COMPONENT PARTS & CONNECTION DETAILS FOR PATIO & COMMERCIAL LATTICE STRUCTURES
DATE: 2/8/2000
DRAWING NUMBER: 97L103
SHEET: 2 OF 4



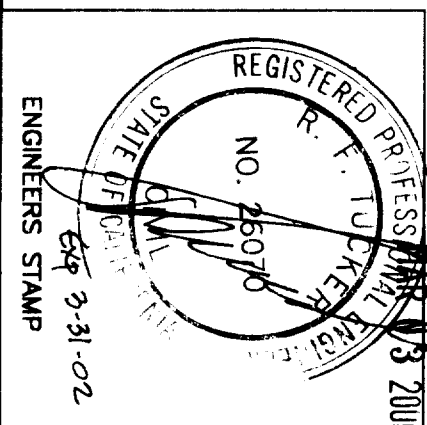
L24 ALUMINUM 'H' BRACKET FOR
CONNECTING COLUMN TO HEADER
(6063-T6 ALUM. ALLOY)



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



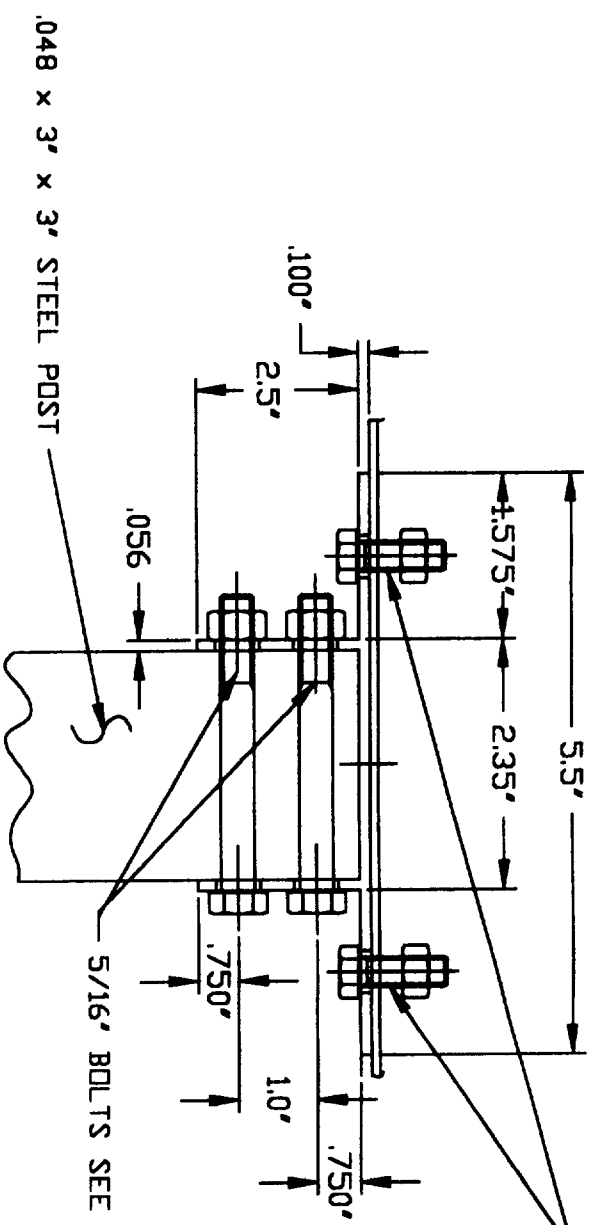
L23 SAFETY STAKE IN
CONCRETE FOOTING
(USE ONLY FOR ATTACHED
LATTICE PATIO STRUCTURES)



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DRAWING COMPONENT PARTS & CONNECTION DETAILS
 FOR PATIO & COMMERCIAL LATTICE STRUCTURES
 SHEET 4 OF 4

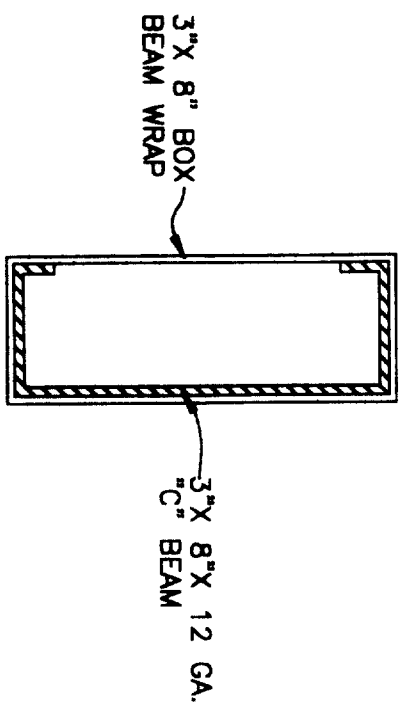


5/16" BOLTS W/ 1" DIA. x 3/32" THK. STL. WASHER TO 8" STEEL 'C' BEAM SEE TABLE 8.4 COLUMN E4 FOR QUANTITY

.048 x 3' x 3' STEEL POST

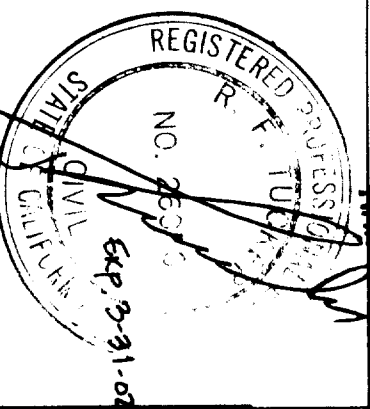
AN ALTERNATE 3" SQ. COLUMN CONNECTOR BRACKET (6063-T6 ALUM. ALLOY)

DETAIL 3" X 8" - 1 FOR ATTACHED STRUCTURES COLUMN TO WRAPPED 3" X 8" X 12 GA. 'C' BEAM HEADER CONNECTIONS



123 3" X 8" BOX BEAM WRAP W/ 3" X 8" ALUM. BOX BEAM

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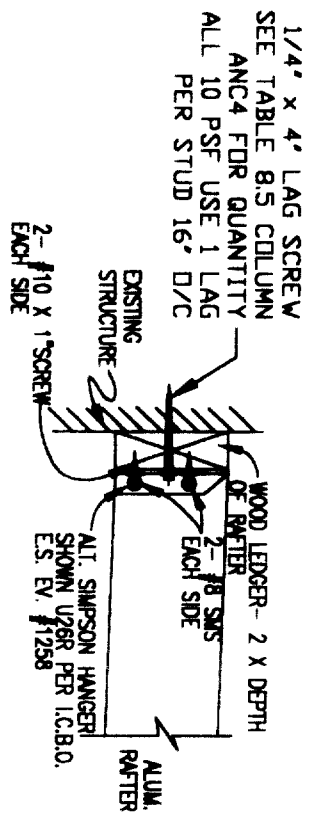
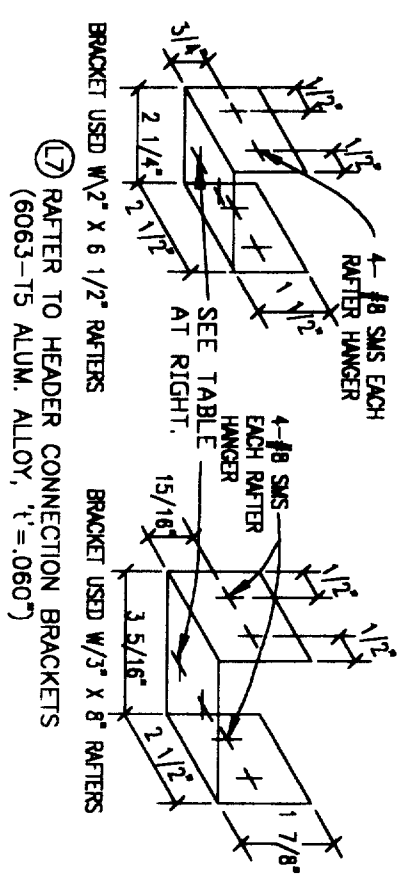
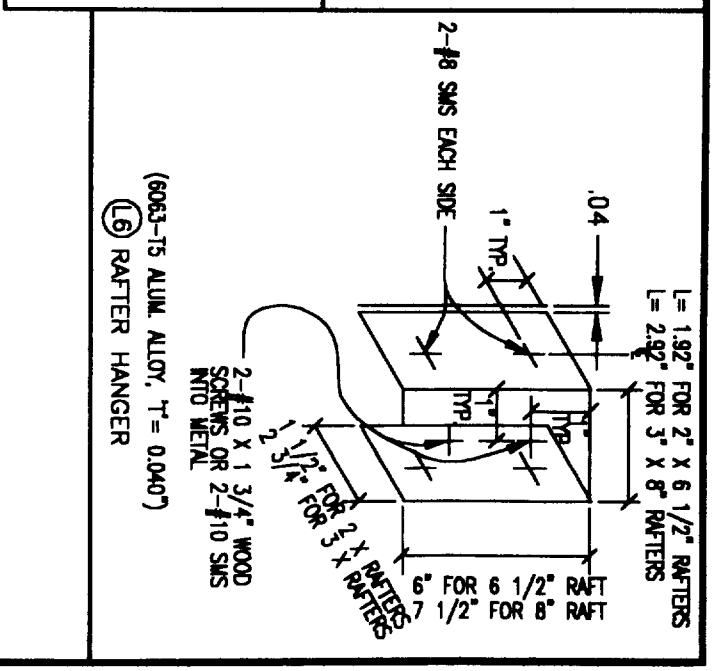
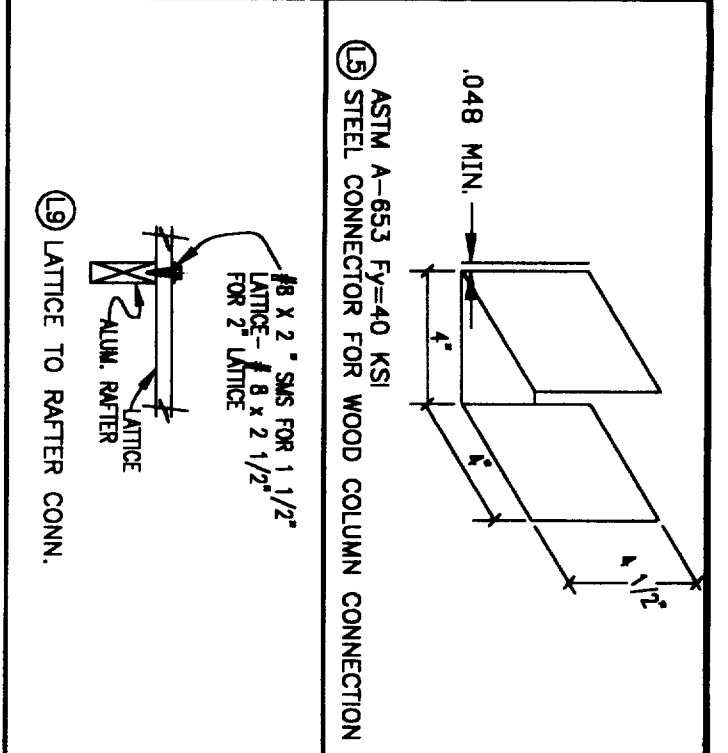
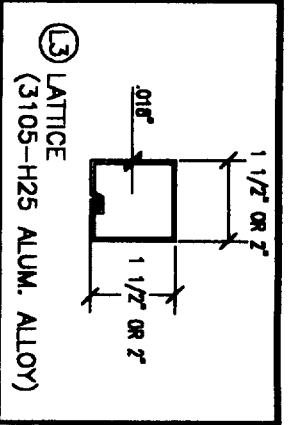
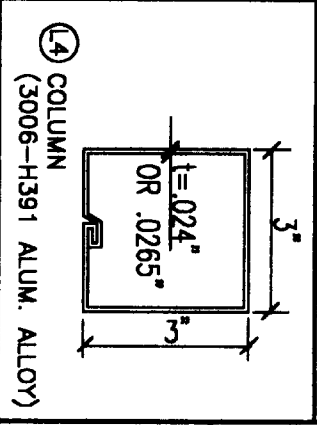
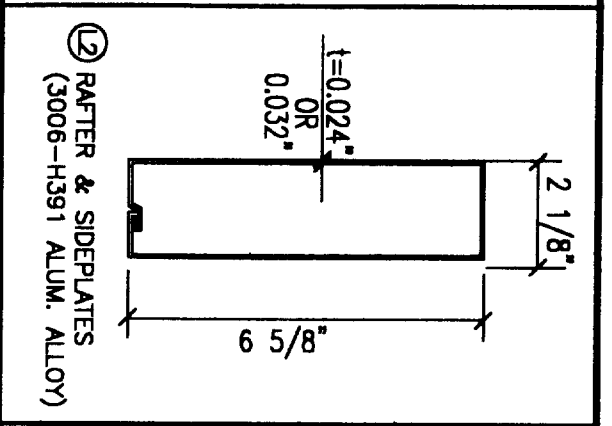
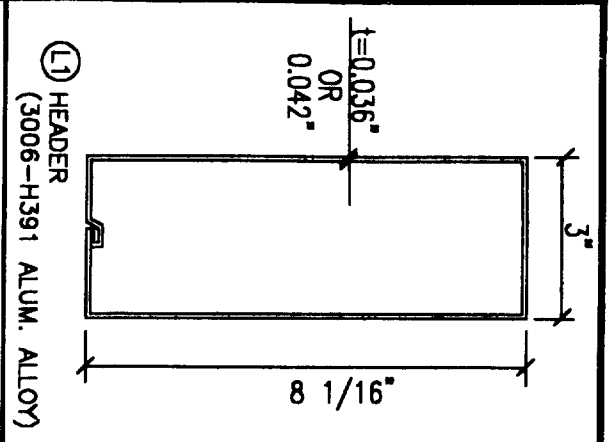


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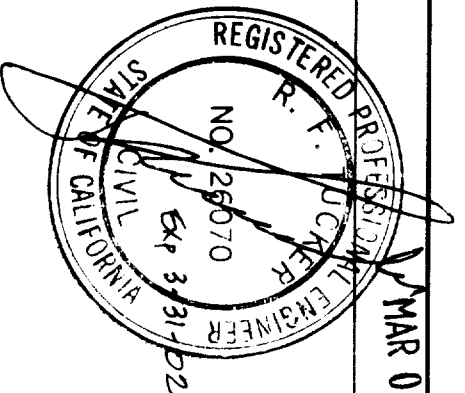
DRAWN BY: KC
 SCALE: NONE
 DATE: 2/9/2000

ICBO ES EVALUATION REPORT NO. ER-2621P
 DRAWING COMPONENT PARTS & CONNECTION DETAILS FOR PARTS & COMMERCIAL LATTICE STRUCTURES
 SHEET 3 OF 4



HEADER GAGE	HEADER	DETAIL	MAXIMUM WIND LOAD	MAX TRIB	FASTENTING
.042	3' x 8'	L1	90 MPH PATID	6'	2-#8 SMS EACH BRKT, 3-#8 SMS EACH BRKT.
.036	3' x 8'	L1	90 MPH PATID	5'	2-#8 SMS EACH BRKT, 4-#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 C 90 EXP C	22'	2-#14 SMS EACH BRKT, 2-#14 SMS EACH BRKT.

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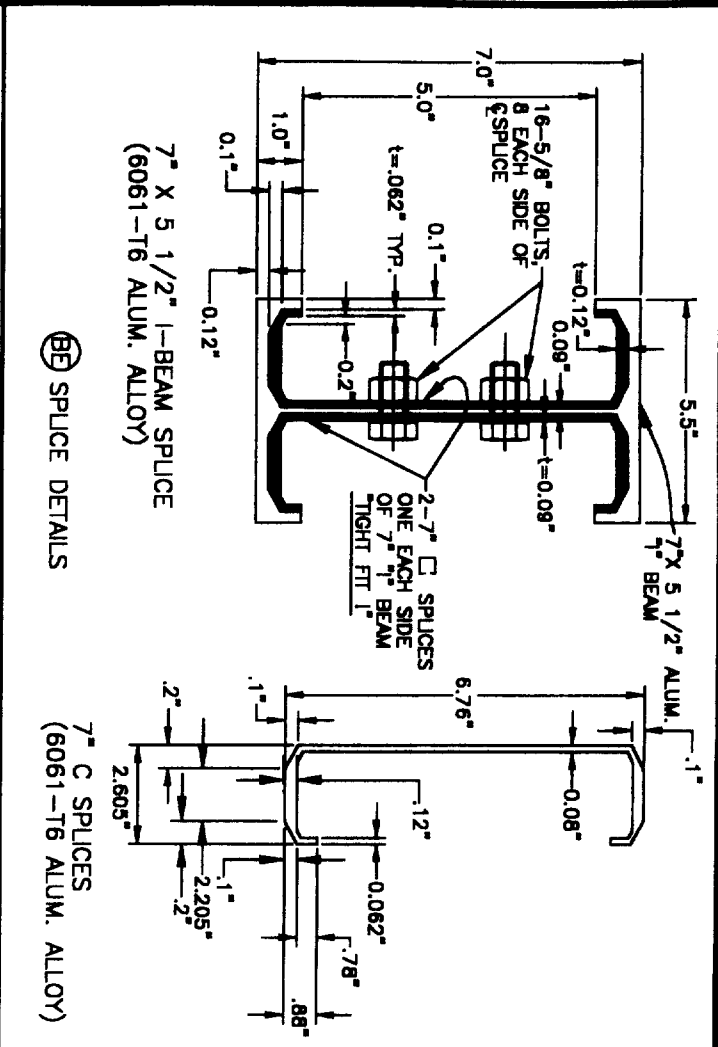


ENGINEERS STAMP

DATE	REVISION	DATE	REVISION

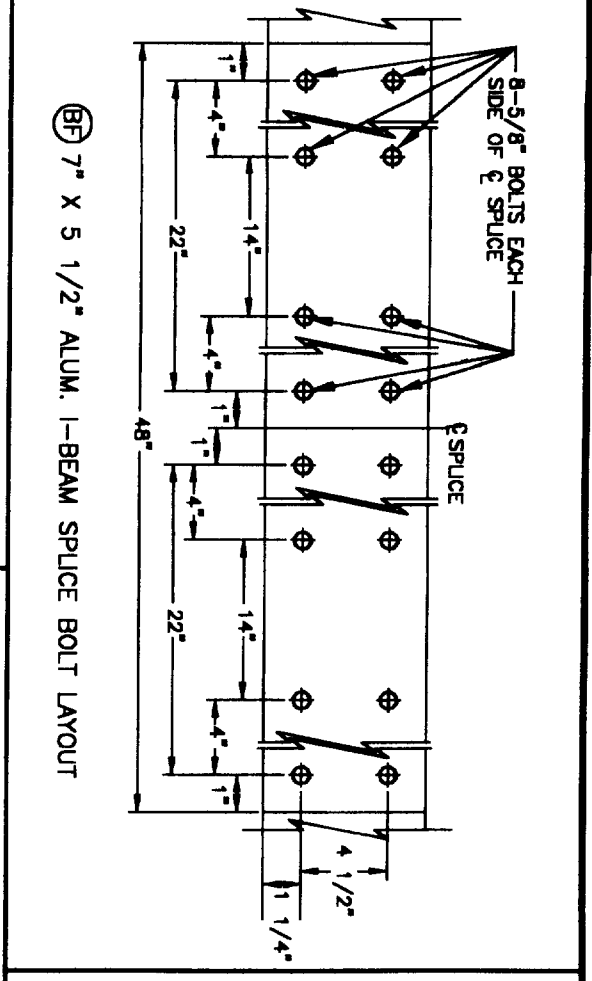
Amerimax
Engineering Services
1140 All Pro Drive
Elkhart, IN 46514

ICBO ES EVALUATION REPORT NO. ER-2621P
DRAWING COMPONENT PARTS & CONNECTION DETAILS FOR PATIO & COMMERCIAL LATTICE STRUCTURES
DATE: 2/8/2000
DRAWING NUMBER: 97LT01
SHEET: 1 OF 4

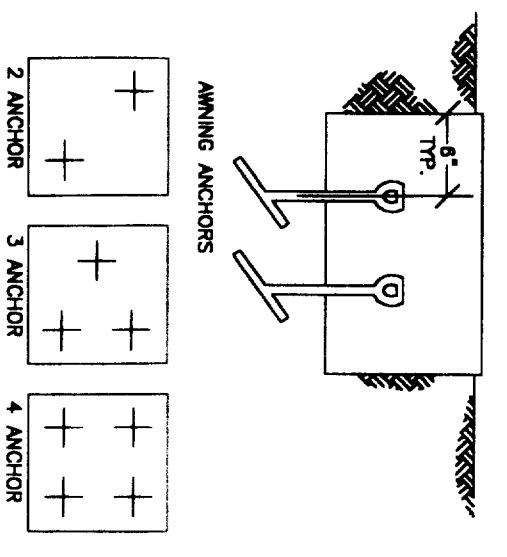


BB SPLICE DETAILS

7" C SPLICES (6061-T6 ALUM. ALLOY)

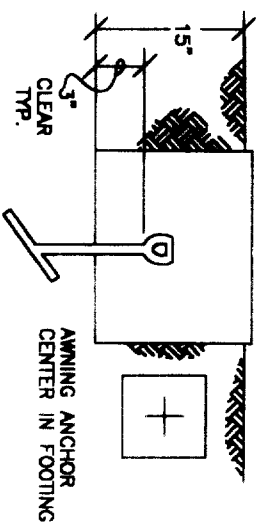


BF 7" X 5 1/2" ALUM. I-BEAM SPLICE BOLT LAYOUT



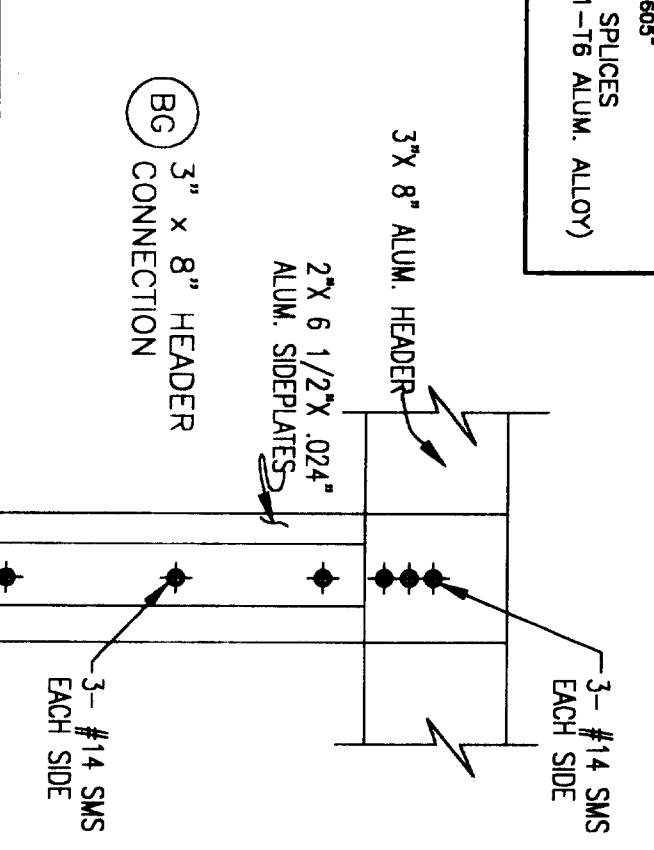
AWNING ANCHORS

2, 3, OR 4 ANCHOR DETAIL

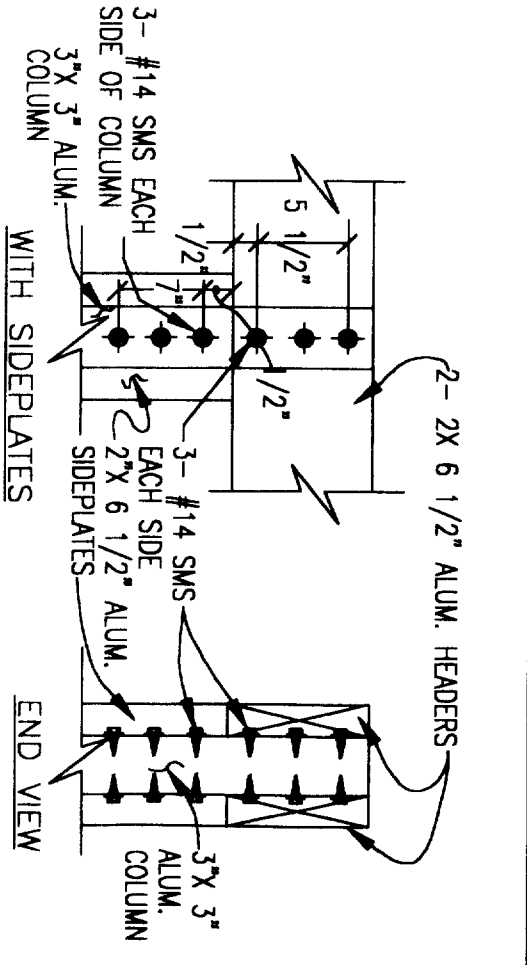


SINGLE ANCHOR DETAIL

BI ANCHOR DETAILS FOR ATTACHED STRUCTURES



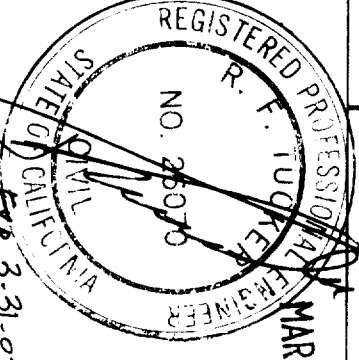
BG 3" x 8" HEADER CONNECTION



BH DOUBLE 2" X 6 1/2" HEADER CONNECTION

FOOTING "d" (IN)	ALTERNATE FOOTING SIZE	NO. OF ANCHORS
18	12" X 12" X 15"	1
20	15" X 15" X 15"	1
22	18" X 18" X 15"	1
24	20" X 20" X 15"	1
26	20" X 20" X 15"	1
28	24" X 24" X 15"	2
30	24" X 24" X 15"	2
32	24" X 24" X 15"	3
34	24" X 24" X 15"	4
36	24" X 24" X 15"	4

WITH SIDEPLATES



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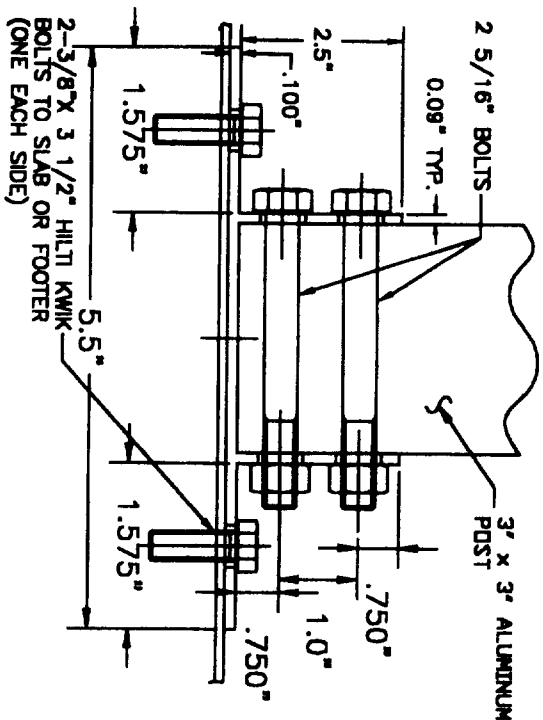


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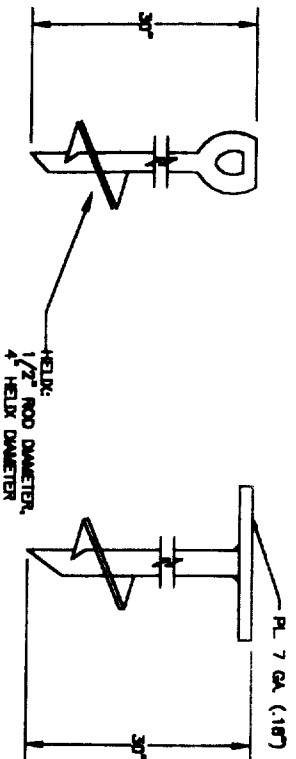
DATE	REVISION	DATE	REVISION
MAR 03 2000			

DRAWN BY: CMP
 SCALE: NONE
 DATE: 2/8/2000
 DRAWING OR PART NUMBER: 97CD08
 SHEET: 8 OF 9

ICB0 ES EVALUATION REPORT NO. ER-2621P
 COMPONENT PARTS & CONNECTION DETAILS



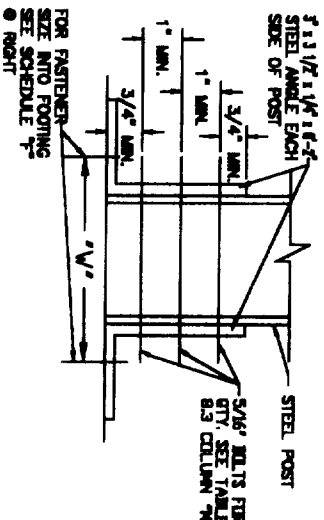
AN ALTERNATE 3" SQ. COLUMN CONNECTOR BRACKET (6063-T6 ALUM. ALLOY)



ALTERNATE TO CONCRETE SLAB ATTACHMENT

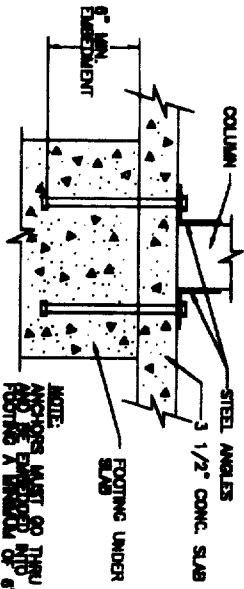
- NOTES:
1. ALL PARTS TO BE HOT-DIP GALVANIZED OR ELECTROPLATED ZINC. MAY BE USED IN LIEU OF ATTACHING TO CONCRETE SLAB.
 2. FABRICATION OF AWNING ANCHORS AND SAFETY STAKES IS BEYOND THE SCOPE OF THIS REPORT. FABRICATION DETAILS AND QUALITY CONTROL PROGRAM MUST BE SUBMITTED TO BUILDING OFFICIAL FOR APPROVAL.
 3. AWNING ANCHORS MAY BE USED IN THE FOLLOWING TYPES OF SOIL: SAND, GRAVEL, CLAY, SANDY GRAVEL, SILTY GRAVEL, SILTY SAND, CLAYEY SAND, CLAYEY GRAVEL, SANDY CLAY, SILTY CLAY, AND CLAYEY SILT.

AS AWNING ANCHOR

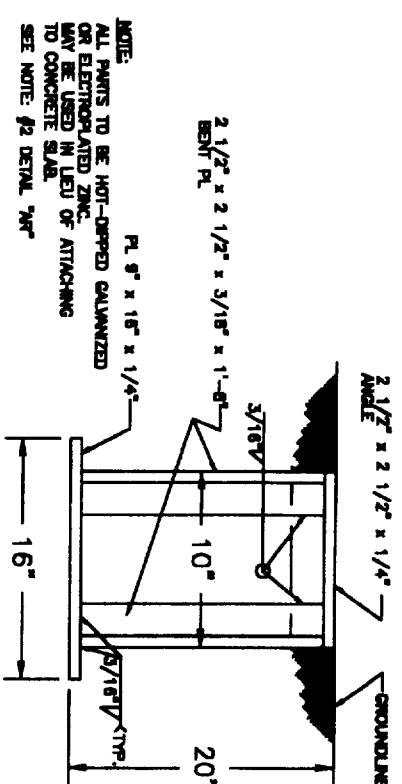


REQUIRED FASTENER SIZE	MINIMUM W" (WIDTH)	MINIMUM W" (WIDTH)
1/4"	3"	3"
3/8"	4 1/2"	4 1/2"
1/2"	6"	6"
5/8"	7 1/2"	7 1/2"
3/4"	9"	9"

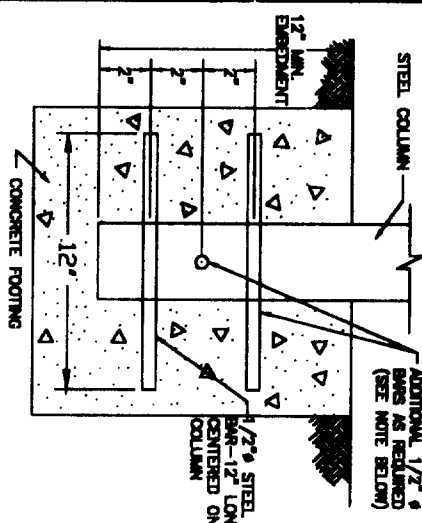
AS ATTACHED STRUCTURE COLUMN TO FOOTING CONNECTION DETAIL "d" = 18" TO 32" HILTI FASTENER ALTERNATE



AD COLUMN CONNECTION DETAIL FOR SLAB & FOOTING ATTACHMENT



AP SAFETY STAKE (ALTERNATE TO CONCRETE SLAB ATTACHMENT)



AT ALTERNATE FREESTANDING STRUCTURE COLUMN TO FOOTING CONNECTION DETAIL

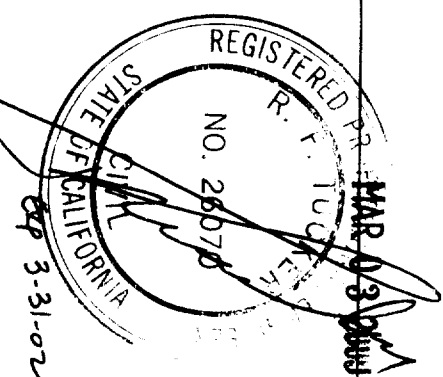
SCHEDULE "F" - COLUMN TO FOOTING CONNECTIONS FOR 18" TO 42" FOOTING SIZES

FOOTING SIZE (INCHES)	HILTI FASTENER (OR EQUAL) SIZE	CONNECTION TO COLUMN TUBE	REQUIRED TENSION FOR ANCHOR BOLTS
18"	2-1/4" x 2" d	1-5/16" BOLT	430f
20"	2-3/8" x 2 1/2" d	1-5/16" BOLT	580f
22"	2-1/4" x 2" d	2-5/16" BOLTS	650f
24"	2-3/8" x 2 1/2" d	2-3/8" BOLTS	780f
26"	2-1/2" x 3 1/2" d	3-5/16" BOLTS	1330f
28"			1330f
30"			1670f
32"	2-5/8" x 4" d		2090f
34"			N/A
36"			N/A
38"			N/A
40"			N/A
42"		3-3/8" BOLTS	N/A

AV FOOTING SCHEDULE

*"d" SIZE IN ANCHOR BOLT OR HILTI FASTENER SIZES INDICATES DEPTH OF EMBEDMENT. EXAMPLE: 2 1/2" d INDICATES 2 1/2" EMBEDMENT OF ANCHOR OR EQUAL TO HILTI FASTENERS. ALTERNATE MUST BE ICBO ES APPROVED TO PROVIDE ALLOWABLE TENSION. EQUAL TO "REQ'D" TENSION FOR ANCHOR BOLT VALUES SHOWN. HILTI INDICATES HILTI KB-II ANCHOR BOLTS PER ICBO E.S. EV #4827.

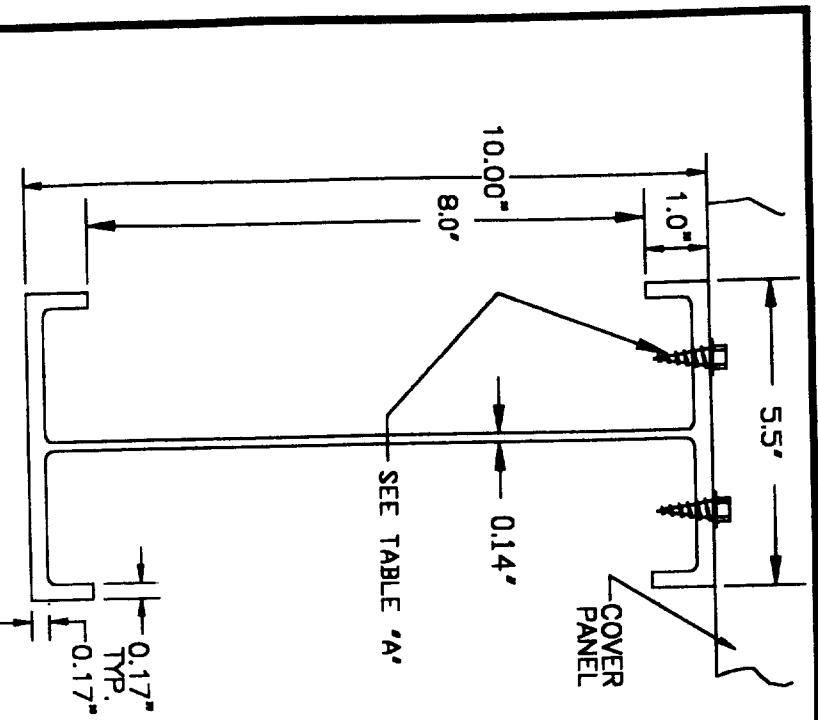
DATE	REVISION	DATE	REVISION



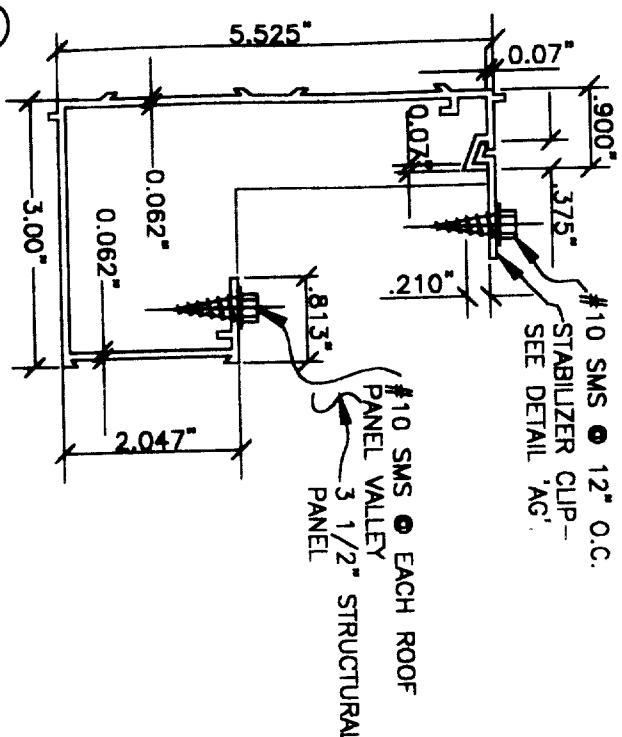
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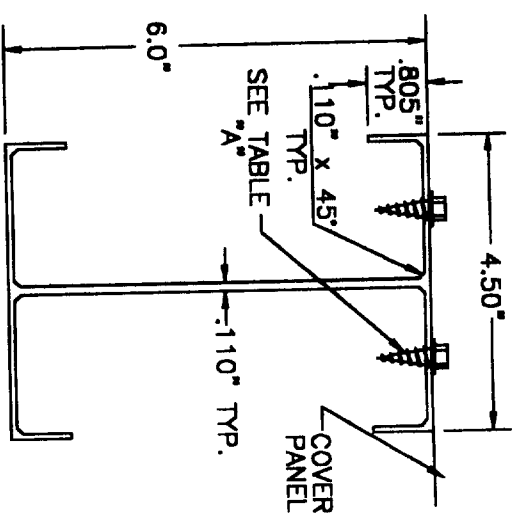
ICBO ES EVALUATION REPORT NO. ER-2621P
 DRAWING NO. 97CD06
 SCALE: NONE
 DATE: 2/8/2000
 SHEET 6 OF 9



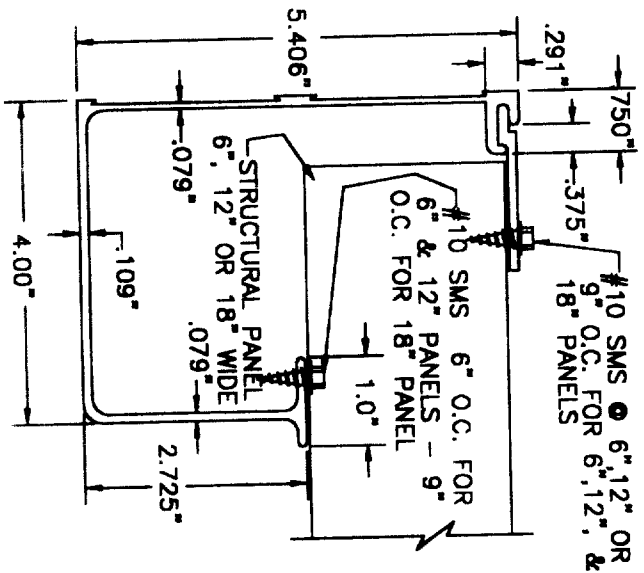
Y 10" X 5 1/2" W BEAM HEADER
(6061-T6 ALUM. ALLOY)



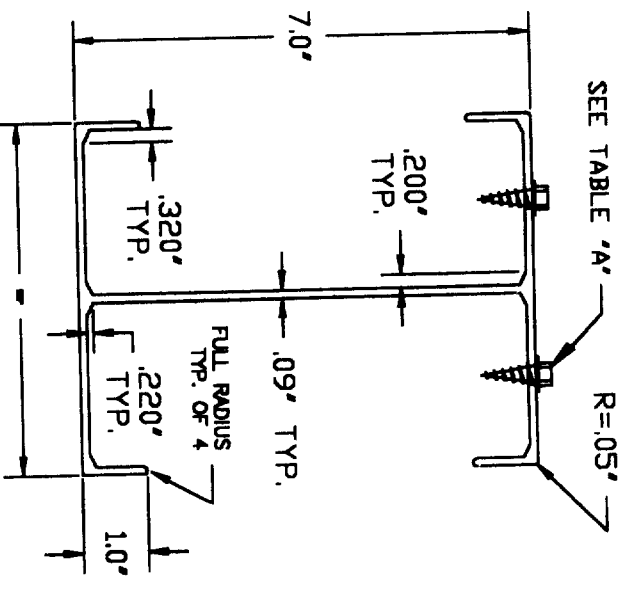
AC 5 1/2" EXTRUDED HEADER
(6061-T6 ALUM. ALLOY)



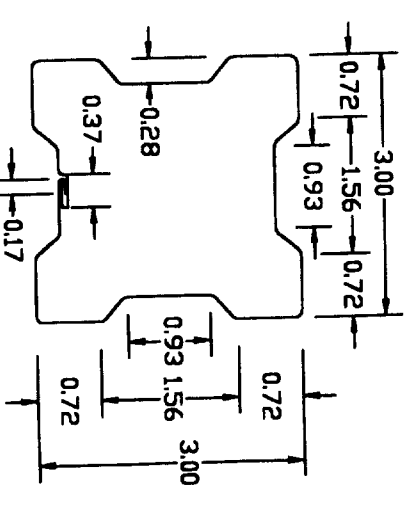
Z 6" W BEAM HEADER
(6061-T6 ALUM. ALLOY)



AD ALASKAN EXTRUDED HEADER
(6061-T6 ALUM. ALLOY)



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

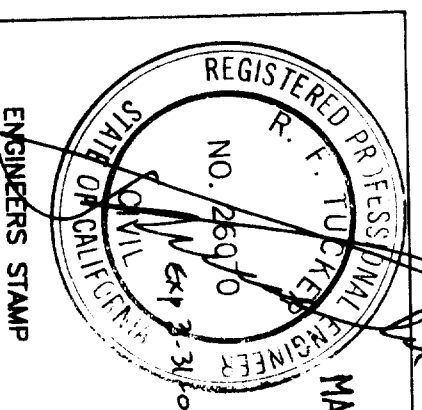


AB 3" X 3" HEADER (STEEL)
(A-653 Fy=40 KSI STEEL)

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	10'	2-#10 SMS PER 12" PANEL	SEE #1
90 MPH EXP B	STEEL CLOVER, C BEAMS, I BEAMS	16'	3-#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	SEE #1
		16'	4-#14 SMS PER 12" PANEL	SEE #2
		16'	3-#14 SMS PER 12" PANEL	SEE #2

AE 6" PANEL USE 50% LESS SCREWS
18" PANEL USE 50% MORE SCREWS



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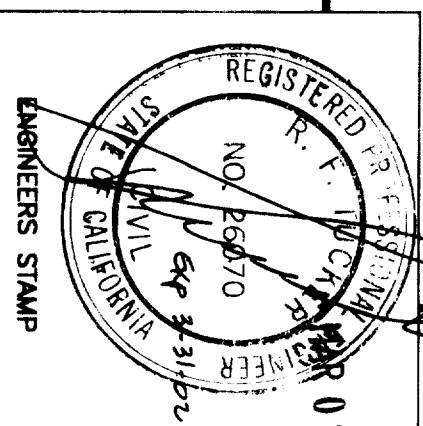
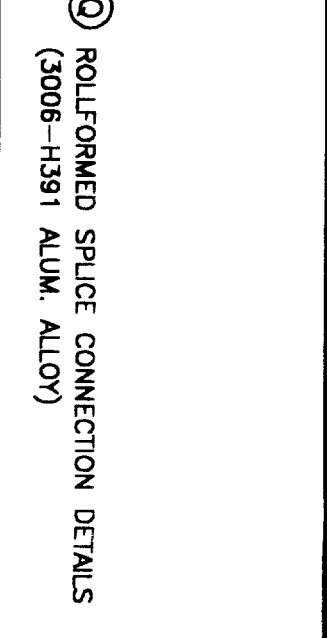
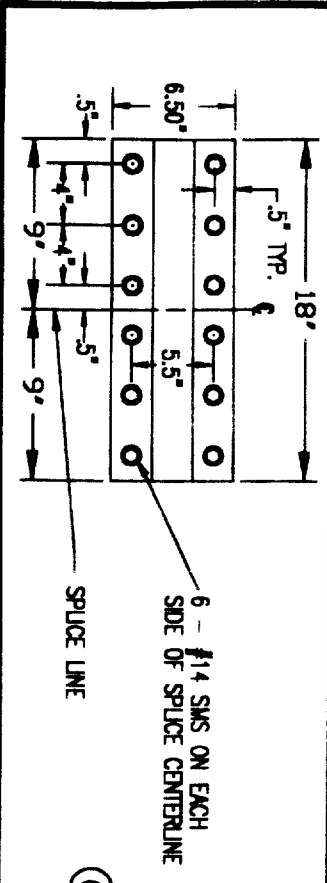
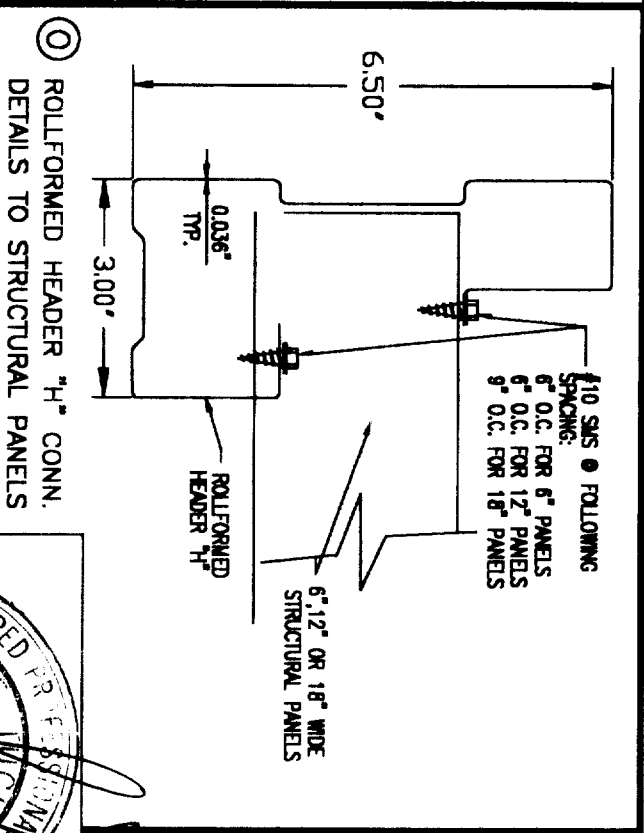
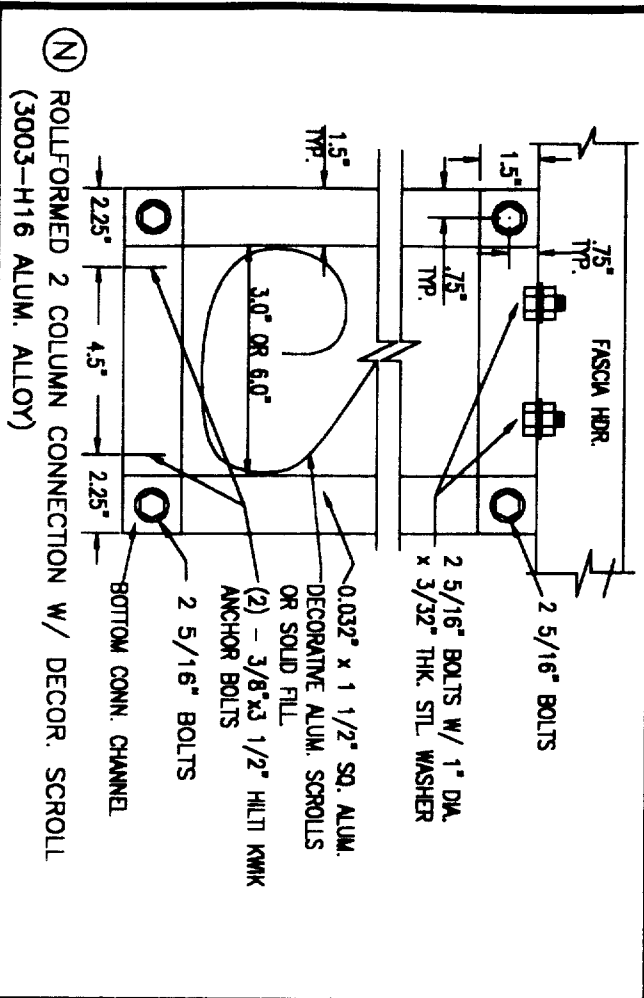
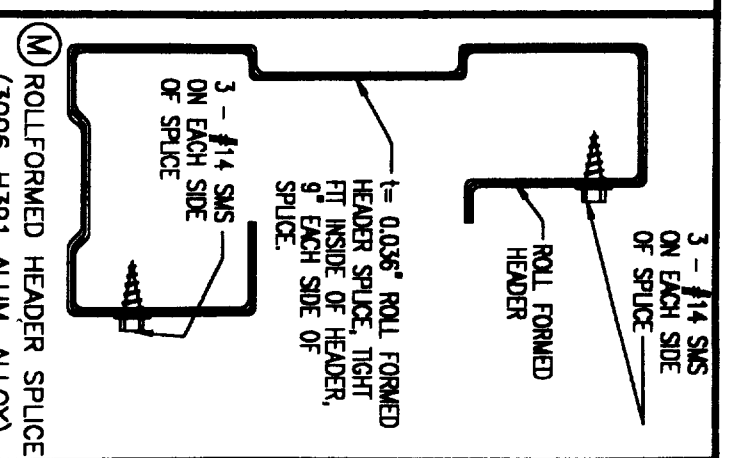
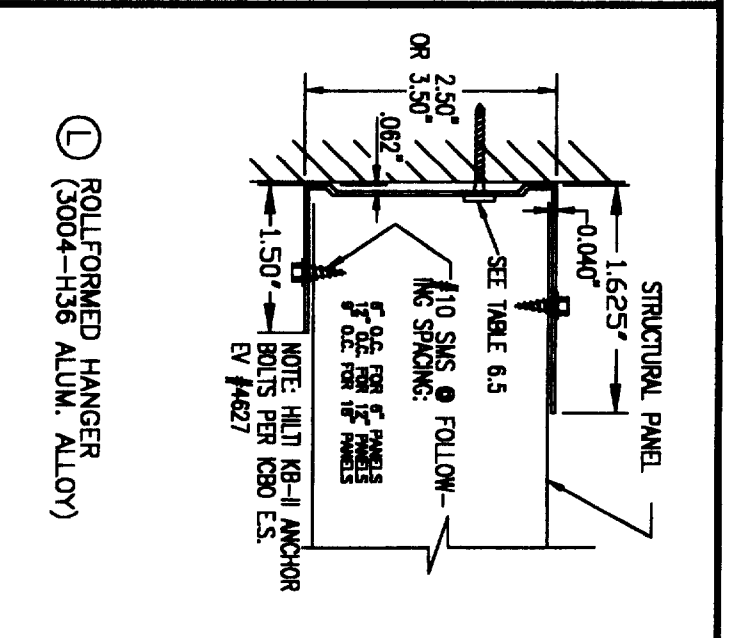
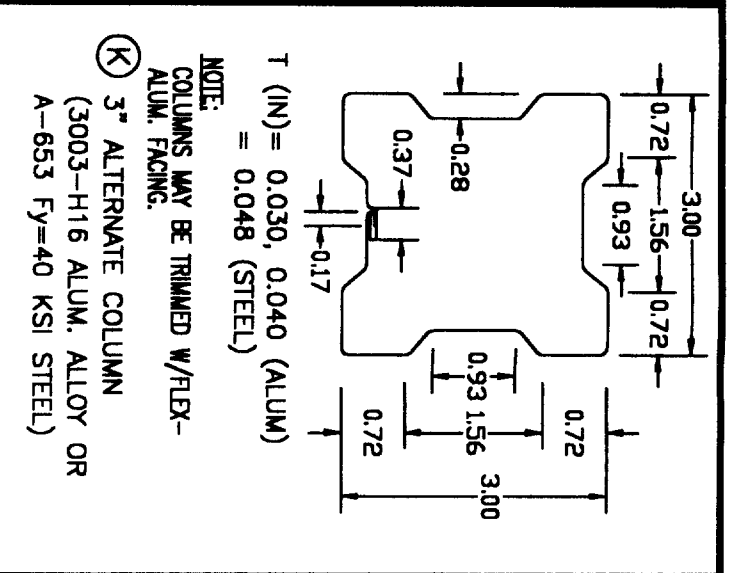
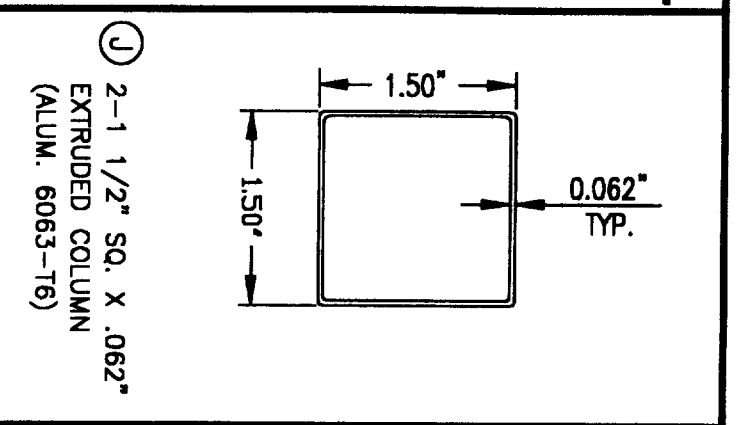
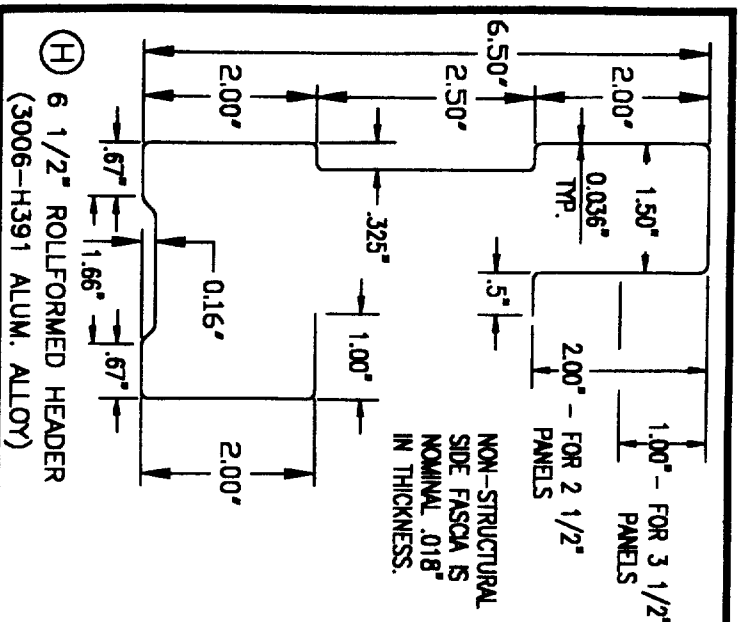
ICBO ES EVALUATION REPORT NO. ER-2621P

DATE: MAR 03 2000

SCALE: NONE

DRAWING OR PART NUMBER: 97C004

SHEET: 4 OF 9



DATE	REVISION	DATE	REVISION
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DRAWN BY: KG
 SCALE: NONE
 DATE: 2/9/2000

ICBO ES EVALUATION REPORT NO. ER-2621P
 DRAWING OR PART COMPONENT PARTS & CONNECTION DETAILS
 SHEET 2 OF 9

6.0 COLUMN AND FASTENER REQUIREMENTS FOR COMMERCIAL AND PATIO STRUCTURES

Column Spacing multiplied by Trib Width	Lattice Tributary Area (sq ft)	Solid Cover Tributary Area (sq ft)	Minimum Column Required for Attached Structures					
			10	20	25	30	40	60
23	16	16	A1	A1	A1	A1	A2	C
31	20	20	A1	A1	A2	A2	C	C
37	24	24	A1	A2	B	B	C	C
44	29	29	A1	A2	B	C	C	D
65	36	36	A1	B	C	C	C	D
62	40	40	A1	C	C	C	C	D
69	45	45	A1	C	C	C	C	D
77	50	50	A1	C	C	C	C	D
85	55	55	A2	C	C	C	C	D
92	60	60	A2	C	C	C	C	D
100	65	65	A2	C	C	C	C	D
105	68	68	B	C	C	C	C	D
108	70	70	C	C	C	C	C	D
116	75	75	C	C	C	C	C	D
123	80	80	C	C	C	C	C	D
138	90	90	C	C	C	C	C	D
164	100	100	C	C	C	C	C	D
185	120	120	C	C	C	C	C	D
216	140	140	C	C	C	C	C	D
246	160	160	D	E	E	E	F	F
277	180	180	D	E	E	E	F	F
308	200	200	D	E	E	E	F	F
338	220	220	E	E	E	F	F	F
385	260	260	E	E	F	F	F	G
492	320	320	E	F	F	F	G	G
615	400	400	E	F	G	G	G	H
692	460	460	E	G	G	G	G	H
789	500	500	E	G	G	G	G	H
923	600	600	F	G	G	G	H	H

Table 6.1

COLUMN TYPE	COLUMN DESCRIPTIONS	DETAIL	MAX COL HEIGHT
A1	0.024" x 3" SQUARE ALUM COLUMN	F	10'-6"
A2	0.024" x 3" SQUARE ALUM COLUMN	F	8'-0"
B	0.032" x 1 1/2" SQUARE ALUM SCROLL COLUMN	E, N	8'-0"
B	0.027" x 3" SQUARE ALUM COLUMN	F	11'-4"
C	3" CLOVERLEAF ALUM. 0.040"	K	12'-0"
D	FLUTED COLUMN ALUM. 0.062"	U	12'-0"
E	3" CLOVERLEAF STEEL 0.048"	K	8'-7"
F	3" SQUARE STEEL COLUMN	X	18'-0"
G	4" SQUARE STEEL COLUMN	X	18'-0"
H	5" SQUARE STEEL COLUMN	X	18'-0"
J	6" SQUARE STEEL COLUMN	X	18'-0"

Table 6.2

Footer Size d (in)	Design Uplift (lbs)	Aluminum Material Gauge (in)										Steel Gauge (in)			
		A	B	C	D	E	F	G	H	I	J	K	L		
12	75	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
13	96	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
14	119	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
15	147	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
16	178	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
17	214	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
18	254	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
19	298	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
20	348	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
21	403	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
22	463	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
23	529	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
24	602	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
25	690	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
Slab	750	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4

Table 6.3: Required Number of Fasteners for Shearing Loads

Footer Size d (in)	Design Uplift (lbs)	Aluminum Gauge (in)										Steel Gauge (in)			
		A	B	C	D	E	F	G	H	I	J	K	L		
12	75	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
13	96	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
14	119	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
15	147	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
16	178	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
17	214	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
18	254	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
19	298	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
20	348	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
21	403	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
22	463	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
23	529	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
24	602	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
25	690	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
Slab	750	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4

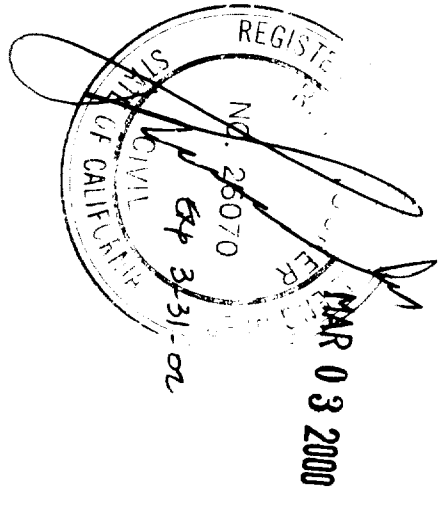
Table 6.4: Required Number of Fasteners for Tension Loads

Fastener Terminology:
 #14 SMS = #14 sheet metal or Tek screw; 3/4" minimum length
 5/16" B = 5/16" Diameter Bolt
 See General Notes for specifics on fasteners

- 1 Clearspan on this chart is the distance from the wall to the first row of columns.
- 2 Hillt Kwik Bolt II 1/4" diameter and 2" embedment; ICB0 ER-4627 or other anchor w/ 550# shear vs wind and seismic loads.
- 3 Masonry anchors must have a shear value of 250# for wind or seismic loads.
- 4 1/4" Lag screws must have 2 1/4" of penetration into studs. These lag screws must have an 1/8" lead hole.
- 5 10 psf evaluated at 90 mph wind load (15 psf). All other loads evaluated at 90 mph exposure C.

LIVE LOAD (PSF)	TABLE 6.5: WALL ATTACHMENTS FOR PATIO AND COM. STRUCTURES			
	ANC 1	ANC 2	ANC 3	ANC 4
10	2 1/4"	2 1/4"	16"	22"
20	2 1/4"	16"	8"	11"
25	2 1/4"	15"	8"	11"
30	2 1/4"	14"	8"	10"
40	2 1/4"	12"	8"	13"
60	1 1/2"	10"	4"	11"

- 1 Spacing between bolts and screws shall be 2.5 times the shank diameter
- 2 The edge distance of bolts and screws shall be 3 times the shank diameter
- 3 Connectors shall be arranged so that the center of resistance of the connection shall coincide with the resultant line of action of the load.



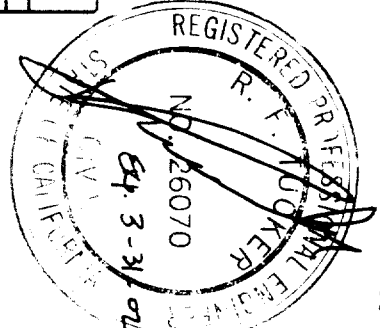
4.0 FREESTANDING AND ATTACHED LATTICE PATIO STRUCTURES

LIVE LOAD	TRIBS WIDTH	MAXIMUM COLUMN SPACING		3x6" STEEL C BEAM		MAX. COLUMN SPACING	CONCRETE FOOTING SIZE		MIN. COLUMN TYPE		
		FOR ATTACHED LATTICE ON SLAB	FOR ATTACHED LATTICE ON SLAB	FREE ATTACHED	MIN. COLUMN TYPE						
(PSF)	(FT)	MAX. LENGTH OF COLUMN	MAX. LENGTH OF COLUMN	FT	(IN)	(FT)	FT	(IN)	(IN)		
		10'-0"	10'-0"	FT	(IN)		FT	(IN)			
10	80 MPH	4	21'-1"	22'-0"	25'-7"	26'-3"	27	22	C		
		5	16'-10"	17'-7"	20'-5"	21'-0"	27	22	C		
		6	14'-1"	14'-8"	17'-0"	17'-6"	26'-4"	27	22	C	
		7	12'-1"	12'-7"	14'-7"	15'-0"	15'-0"	26	22	C	
		8	10'-7"	10'-7"	11'-0"	11'-4"	13'-1"	25	22	C	
		9	9'-4"	9'-4"	9'-4"	9'-4"	11'-8"	25	22	C	
		10	8'-5"	8'-5"	8'-5"	8'-5"	10'-3"	23	23	C	
		11	7'-8"	7'-8"	7'-8"	7'-8"	9'-6"	23	23	C	
		12	7'-0"	7'-0"	7'-0"	7'-0"	8'-0"	21	23	C	
		13	6'-5"	6'-5"	6'-5"	6'-5"	7'-4"	21	23	C	
		14	6'-0"	6'-0"	6'-0"	6'-0"	6'-8"	21	23	C	
		15	5'-7"	5'-7"	5'-7"	5'-7"	6'-1"	20	25	C	
		16	5'-3"	5'-3"	5'-3"	5'-3"	5'-10"	18	26	C	
		17	5'-0"	5'-0"	5'-0"	5'-0"	5'-2"	17	26	C	
		18	4'-8"	4'-8"	4'-8"	4'-8"	4'-11"	17	26	C	
		19	4'-5"	4'-5"	4'-5"	4'-5"	4'-10"	15	26	C	
		20	4'-3"	4'-3"	4'-3"	4'-3"	4'-10"	15	26	C	
		21	4'-1"	4'-1"	4'-1"	4'-1"	4'-10"	15	26	C	
		22	4'-0"	4'-0"	4'-0"	4'-0"	4'-9"	15	26	C	
		10	70 MPH	4	21'-1"	22'-0"	25'-7"	26'-3"	27	22	C
				5	16'-10"	17'-7"	20'-5"	21'-0"	27	22	C
				6	14'-1"	14'-8"	17'-0"	17'-6"	26'-4"	27	22
7	12'-1"			12'-7"	14'-7"	15'-0"	15'-0"	26	22	C	
8	10'-7"			10'-7"	11'-0"	11'-4"	13'-1"	25	22	C	
9	9'-4"			9'-4"	9'-4"	9'-4"	11'-8"	25	22	C	
10	8'-5"			8'-5"	8'-5"	8'-5"	10'-3"	23	23	C	
11	7'-8"			7'-8"	7'-8"	7'-8"	9'-6"	23	23	C	
12	7'-0"			7'-0"	7'-0"	7'-0"	8'-0"	21	23	C	
13	6'-5"			6'-5"	6'-5"	6'-5"	7'-4"	21	23	C	
14	6'-0"			6'-0"	6'-0"	6'-0"	6'-8"	21	23	C	
15	5'-7"			5'-7"	5'-7"	5'-7"	6'-1"	20	25	C	
16	5'-3"			5'-3"	5'-3"	5'-3"	5'-10"	18	26	C	
17	5'-0"			5'-0"	5'-0"	5'-0"	5'-2"	17	26	C	
18	4'-8"			4'-8"	4'-8"	4'-8"	4'-11"	17	26	C	
19	4'-5"			4'-5"	4'-5"	4'-5"	4'-10"	15	26	C	
20	4'-3"			4'-3"	4'-3"	4'-3"	4'-10"	15	26	C	
21	4'-1"			4'-1"	4'-1"	4'-1"	4'-10"	15	26	C	
22	4'-0"			4'-0"	4'-0"	4'-0"	4'-9"	15	26	C	

LIVE LOAD	TRIBS WIDTH	0.035" x 3" x 8" BOX BEAM		0.042" x 3" x 8" BOX BEAM		DOUBLE 0.035" x 2" x 8"			
		MAX. COLUMN SPACING	CONCRETE FOOTING SIZE	MAX. COLUMN SPACING	CONCRETE FOOTING SIZE	MAX. COLUMN SPACING	CONCRETE FOOTING SIZE		
(PSF)	(FT)	FT	(IN)	FT	(IN)	FT	(IN)		
		FT	(IN)	FT	(IN)	FT	(IN)		
10	80 MPH WINDSPEED	4	11'-2"	26	17	29	20	A	
		5	8'-11"	25	16	28	21	A	
		6	7'-5"	23	18	26	20	A	
		7	6'-4"	23	18	26	21	A	
		8	5'-7"	23	17	25	21	A	
		9	4'-11"	25	18	25	20	A	
		10	4'-5"	25	19	25	21	A	
		20	4	5'-8"	22	14	15	16	A
		5	4'-7"	22	15	23	16	A	
		6	4	4	14	23	16	A	
		7	4	4	14	23	17	A	
		8	4	4	14	23	17	A	
		9	4	4	14	23	17	A	
		10	4	4	14	23	17	A	
		25	4	5	14	23	17	A	
		5	4	4	14	23	17	A	
		6	4	4	14	23	17	A	
		7	4	4	14	23	17	A	
		8	4	4	14	23	17	A	
		9	4	4	14	23	17	A	
		10	4	4	14	23	17	A	

LIVE LOAD	PANEL	CLEARSPANS FOR 3 X 8 RAFTER		CLEARSPANS FOR 2 X 8 RAFTER	
		7000 MPH	OVER HANG	7000 MPH	OVER HANG
(PSF)	(IN)	(IN)	(IN)	(IN)	(IN)
10	0.036	23'-4"	11'-8"	13'-7"	6'-9"
20	0.036	14'-6"	8'-6"	10'-9"	4'-5"
25	0.036	11'-10"	7'-11"	9'-10"	4'-11"
30	0.042	17'-8"	8'-10"	11'-9"	4'-5"
40	0.036	9'-8"	6'-11"	7'-8"	3'-10"
60	0.042	11'-8"	7'-0"	9'-4"	4'-5"
80	0.042	7'-10"	5'-9"	7'-5"	3'-10"

COL.	COLUMN SCHEDULE FOR ATTACHED LATTICE PATIO STRUCTURES		MAX. COLUMN HEIGHT
	FOR ATTACHED LATTICE	FOR PATIO STRUCTURES	
A	0.024" x 3" SQUARE ALUM. COLUMN	11'-8"	11'-8"
B	0.035" x 3" SQUARE ALUM. COLUMN	11'-8"	11'-8"
C	0.027" x 3" SQUARE ALUM. COLUMN	11'-4"	11'-4"
D	0.040" x 3" CLOVERLEAF COLUMN	12'-0"	12'-0"
E	3" CLOVERLEAF STEEL 0.048"	12'-0"	12'-0"
F	3" SQUARE STEEL COLUMN	12'-0"	12'-0"
G	4" SQUARE STEEL COLUMN	12'-0"	12'-0"
H	5" SQUARE STEEL COLUMN	12'-0"	12'-0"
J	6" SQUARE STEEL COLUMN	12'-0"	12'-0"



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

TABLE 4.3

TABLE 4.4

TABLE 4.5

TABLE 4.6

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TABLE 4.8

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TABLE 4.100

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

ICBO E3 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: 2/8/2000

3.0 FREESTANDING AND ATTACHED COMMERCIAL STRUCTURES

LIVE LOAD	TRIB WIDTH	6" I BEAM				7" I BEAM				10" I BEAM			
		MAX COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER "x" (IN)	ATT. COLUMN SPACING	MAX COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER "x" (IN)	ATT. COLUMN SPACING	MAX COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER "x" (IN)	ATT. COLUMN SPACING
(PSF)	(FT)	(FT)	8" x 11"	15"	18"	(FT)	8" x 11"	15"	18"	(FT)	8" x 11"	15"	18"

LIVE LOAD	TRIB WIDTH	3" OVERLEAF STEEL HEADER				8" STEEL G BEAM				10" STEEL C BEAM			
		MAX COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER "x" (IN)	ATT. COLUMN SPACING	MAX COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER "x" (IN)	ATT. COLUMN SPACING	MAX COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER "x" (IN)	ATT. COLUMN SPACING
(PSF)	(FT)	(FT)	8" x 11"	15"	18"	(FT)	8" x 11"	15"	18"	(FT)	8" x 11"	15"	18"

LIVE LOAD	TRIB WIDTH	70 MPH EXPOSURE B				70 MPH EXPOSURE C			
		MAX COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER "x" (IN)	ATT. COLUMN SPACING	MAX COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER "x" (IN)	ATT. COLUMN SPACING
(PSF)	(FT)	(FT)	8" x 11"	15"	18"	(FT)	8" x 11"	15"	18"

LIVE LOAD	TRIB WIDTH	90 MPH EXPOSURE B				90 MPH EXPOSURE C			
		MAX COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER "x" (IN)	ATT. COLUMN SPACING	MAX COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER "x" (IN)	ATT. COLUMN SPACING
(PSF)	(FT)	(FT)	8" x 11"	15"	18"	(FT)	8" x 11"	15"	18"

LIVE LOAD	TRIB WIDTH	70 & 90 MPH EXPOSURE B / 70 MPH EXPOSURE C			
		MAX COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER "x" (IN)	ATT. COLUMN SPACING
(PSF)	(FT)	(FT)	8" x 11"	15"	18"

LIVE LOAD	TRIB WIDTH	70 & 90 MPH EXPOSURE B				70 & 90 MPH EXPOSURE C			
		MAX COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER "x" (IN)	ATT. COLUMN SPACING	MAX COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER "x" (IN)	ATT. COLUMN SPACING
(PSF)	(FT)	(FT)	8" x 11"	15"	18"	(FT)	8" x 11"	15"	18"

LIVE LOAD	TRIB WIDTH	5 1/2" EXTRUDED HEADER			
		MAX COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER "x" (IN)	ATT. COLUMN SPACING
(PSF)	(FT)	(FT)	8" x 11"	15"	18"

LIVE LOAD	TRIB WIDTH	70 MPH EXPOSURE B				70 MPH EXPOSURE C			
		MAX COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER "x" (IN)	ATT. COLUMN SPACING	MAX COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER "x" (IN)	ATT. COLUMN SPACING
(PSF)	(FT)	(FT)	8" x 11"	15"	18"	(FT)	8" x 11"	15"	18"

LIVE LOAD	TRIB WIDTH	90 MPH EXPOSURE B				90 MPH EXPOSURE C			
		MAX COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER "x" (IN)	ATT. COLUMN SPACING	MAX COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER "x" (IN)	ATT. COLUMN SPACING
(PSF)	(FT)	(FT)	8" x 11"	15"	18"	(FT)	8" x 11"	15"	18"

LIVE LOAD	TRIB WIDTH	70 MPH EXPOSURE B AND C			
		MAX COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER "x" (IN)	ATT. COLUMN SPACING
(PSF)	(FT)	(FT)	8" x 11"	15"	18"

LIVE LOAD	TRIB WIDTH	70 MPH EXPOSURE B AND C			
		MAX COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER "x" (IN)	ATT. COLUMN SPACING
(PSF)	(FT)	(FT)	8" x 11"	15"	18"

LIVE LOAD	TRIB WIDTH	70 MPH EXPOSURE B AND C			
		MAX COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER "x" (IN)	ATT. COLUMN SPACING
(PSF)	(FT)	(FT)	8" x 11"	15"	18"

ALL FOOTERS LISTED ARE CONSTRAINED TO USE NONCONSTRAINED FOOTERS SEE TABLE ON SHEET 2 OF 8

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

ICBO E.S. EVALUATION REPORT ER-2821P
HEADER SPANS, COLUMN SPACING,
FOOTER SIZE AND COLUMN TYPE FOR
FREESTANDING AND ATTACHED
COMMERCIAL STRUCTURES.

SHEET 4 OF 8
DATE: 2/8/2000



2.0 FREESTANDING AND ATTACHED PATIO STRUCTURES

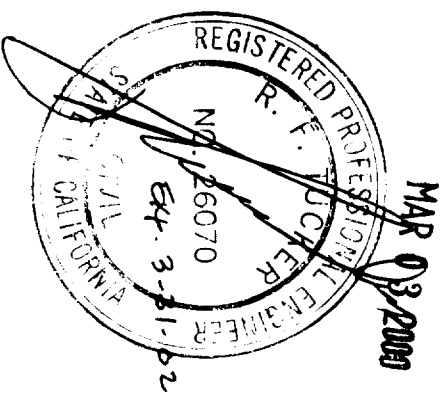
LINE	LOAD	TRIB WIDTH	3' GLOVERBAR STEEL HEADER			6" ROLLFORMED C BEAM			10" ROLLFORMED C BEAM			6" I BEAM			7" I BEAM			6" I 27" ROLLFORMED HEADER			ALUMINUM EXT. HEADER			5" I 27" EXTRUDED HEADER			THIS WIDTH			
			MAX. COLUMN SPACING FOR ATTACHED PATIO ON SLAB USING COLLUM. X. COLLUM. Y. COLLUM. Z.	MAX. COLUMN SPACING ON SLAB	ALL OTHERS	MAX. COLUMN SPACING	FREE ATTACHED	MIN. COLUMN SPACING	MAX. COLUMN SPACING	FREE ATTACHED	MIN. COLUMN SPACING	MAX. COLUMN SPACING	FREE ATTACHED	MIN. COLUMN SPACING	MAX. COLUMN SPACING	FREE ATTACHED	MIN. COLUMN SPACING	MAX. COLUMN SPACING	FREE ATTACHED	MIN. COLUMN SPACING	MAX. COLUMN SPACING	FREE ATTACHED	MIN. COLUMN SPACING	MAX. COLUMN SPACING	FREE ATTACHED	MIN. COLUMN SPACING				
10	70 MPH WINDSPEED	10	18'-7"	13'-8"	17'	12'-3"	24	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	4		
			13'-5"	10'-11"	13'-7"	11'-4"	23	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	5	
			11'-0"	8'-1"	11'-4"	10'-2"	23	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	6	
			8'-5"	6'-10"	8'-8"	8'-4"	23	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	7	
			7'-4"	5'-5"	7'-5"	7'-4"	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	8
			6'-7"	4'-11"	6'-9"	6'-7"	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	9
			5'-8"	4'-8"	5'-8"	5'-8"	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	10
			4'-9"	4'-8"	4'-9"	4'-8"	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	11
			15	14	15	14	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	12
			14	13	14	13	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	13
			13	12	13	12	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	14
			12	11	12	11	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	15
			11	10	11	10	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	16
			10	9	10	9	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	17
			9	8	9	8	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	18
			8	7	8	7	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	19
			7	6	7	6	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	20
			6	5	6	5	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	21
			5	4	5	4	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22

EQUVALENT FOOTERS (IN) NONCON-STRAINED

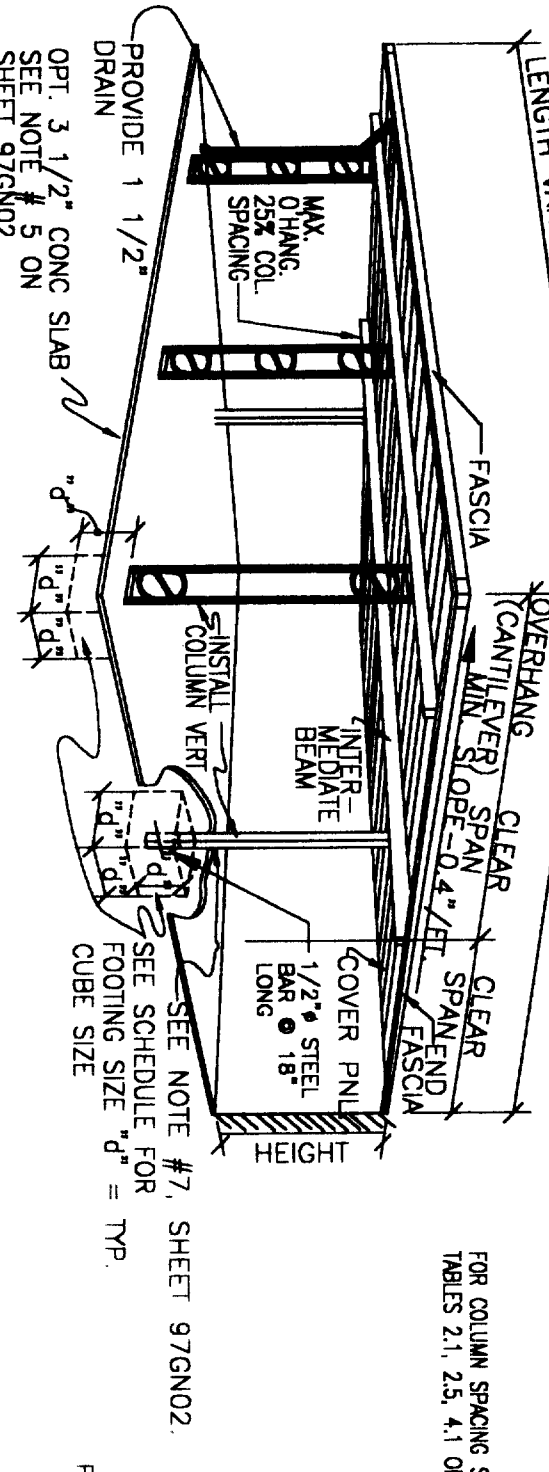
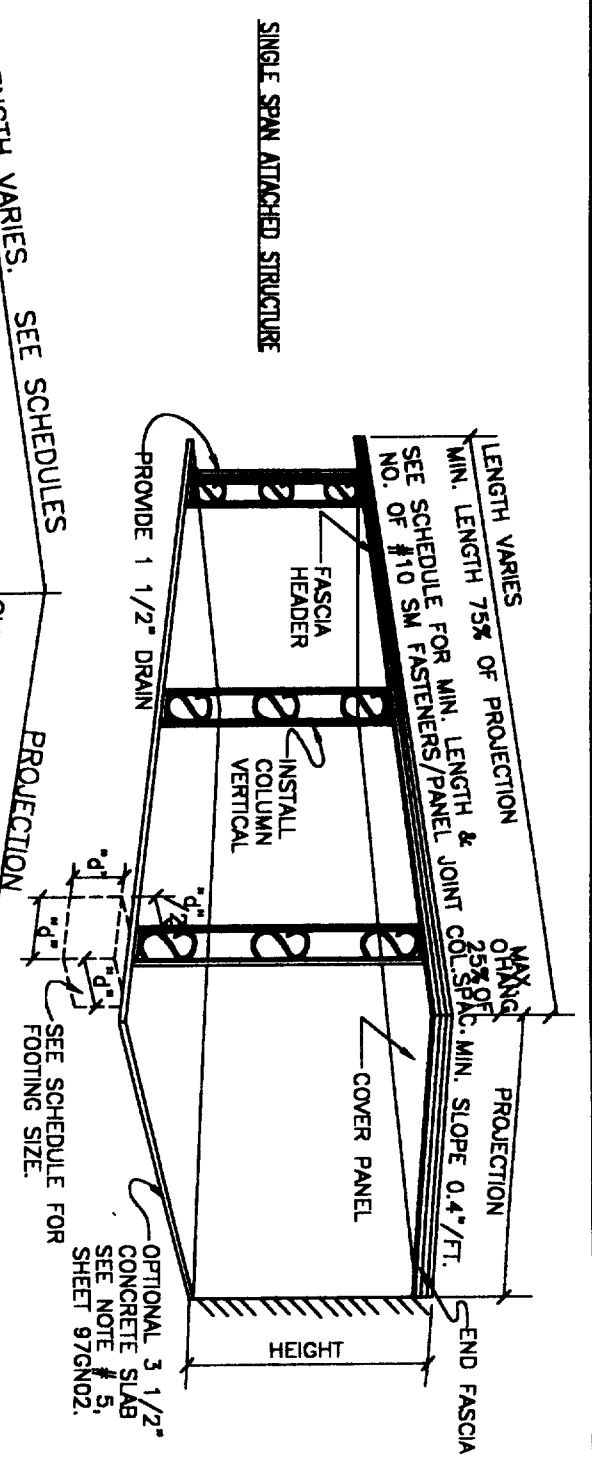
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THIS TABLE MAY BE USED WITH COMMERCIAL PATIO OR LATTICE STRUCTURES

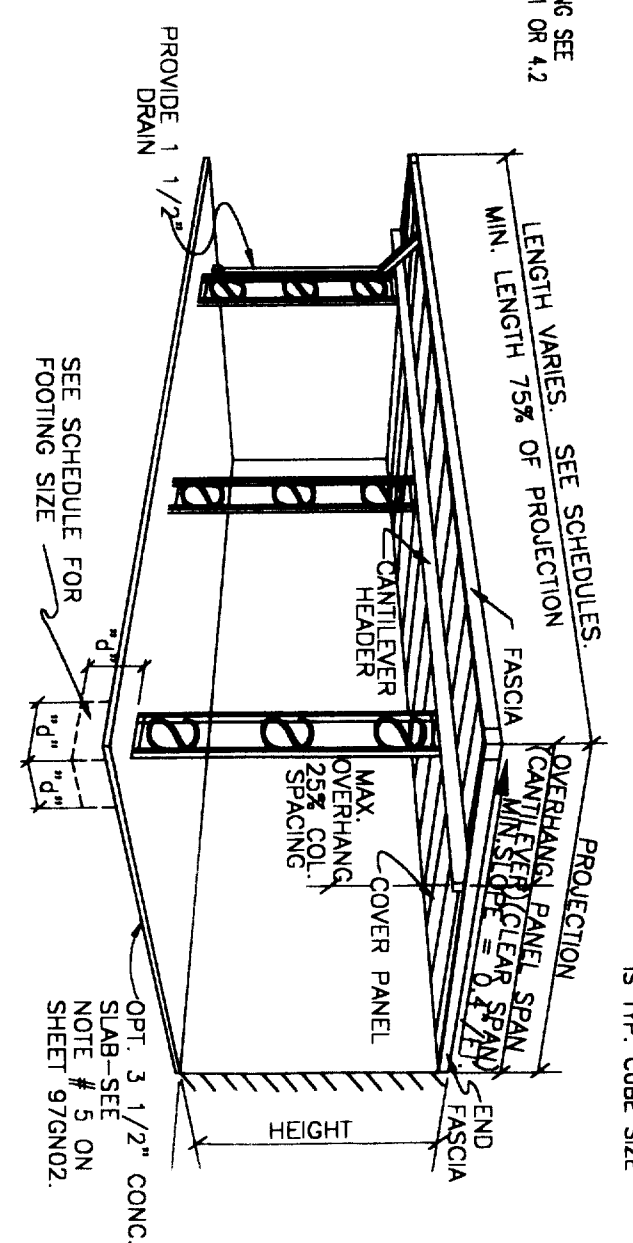
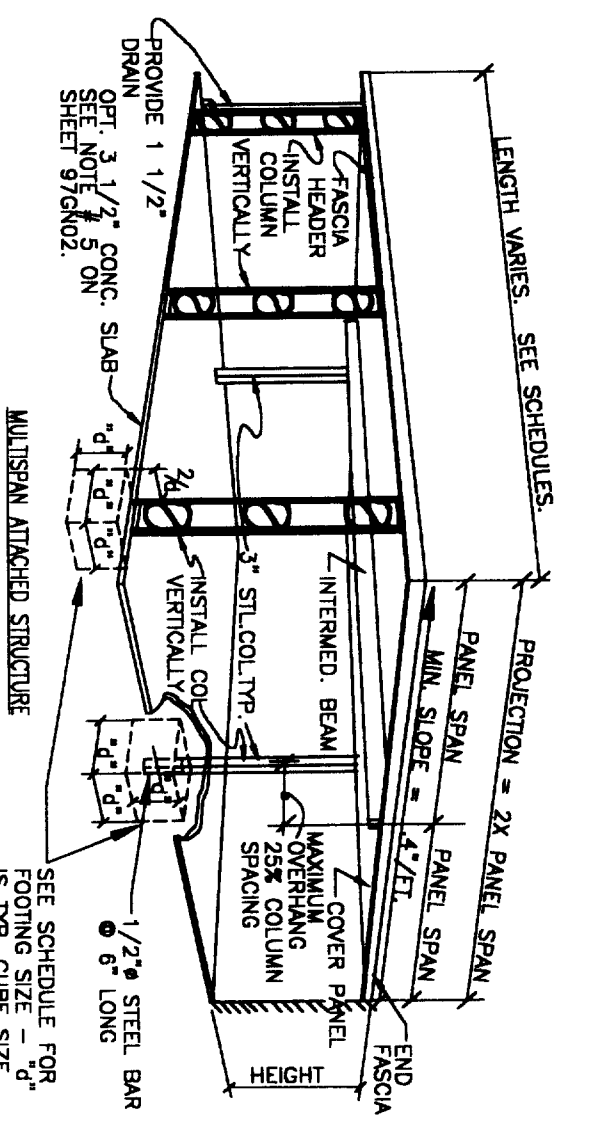
TABLE 2.1



Amerimax BUILDING PRODUCTS, INC.
 1140 ALL PRO DRIVE
 ELKHART, IN 46514
 CE015 EVALUATION REPORT-2621P
 HEAVY SPANS, COLUMN SPACING, FREE STANDING AND ATTACHED PATIO STRUCTURES
 DATE: 2/9/2000
 SHEET 2 OF 8

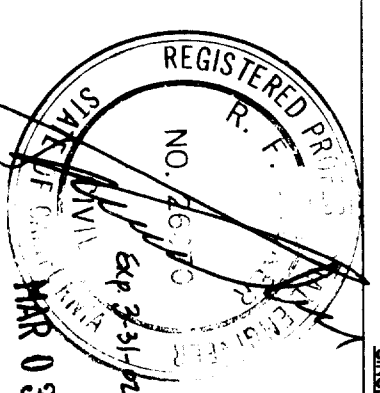
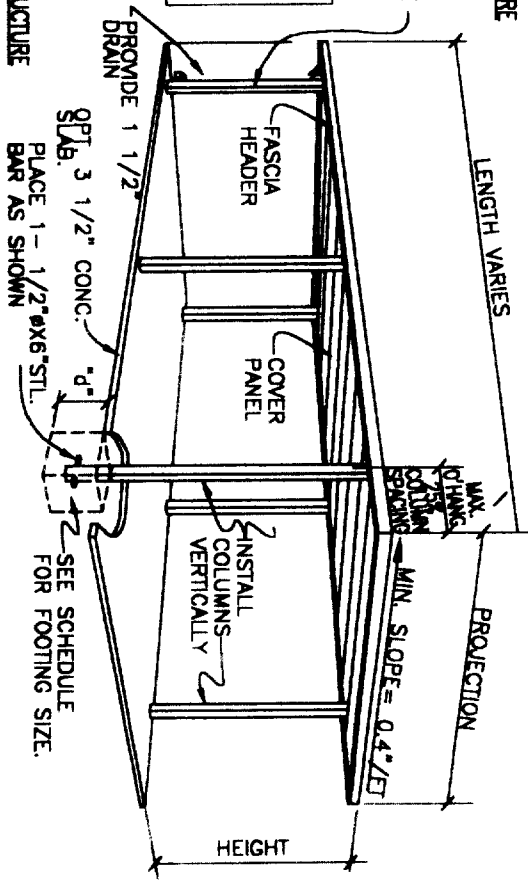


FOR COLUMN SPACING SEE TABLES 2.1, 2.5, 4.1 OR 4.2



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

FOR COLUMN SIZE SEE "COLUMN SCHEDULE"



DATE	REVISION	DATE	REVISION

Amerimax
Engineering Services
1140 All Pro Drive
Elkhart, IN 46514

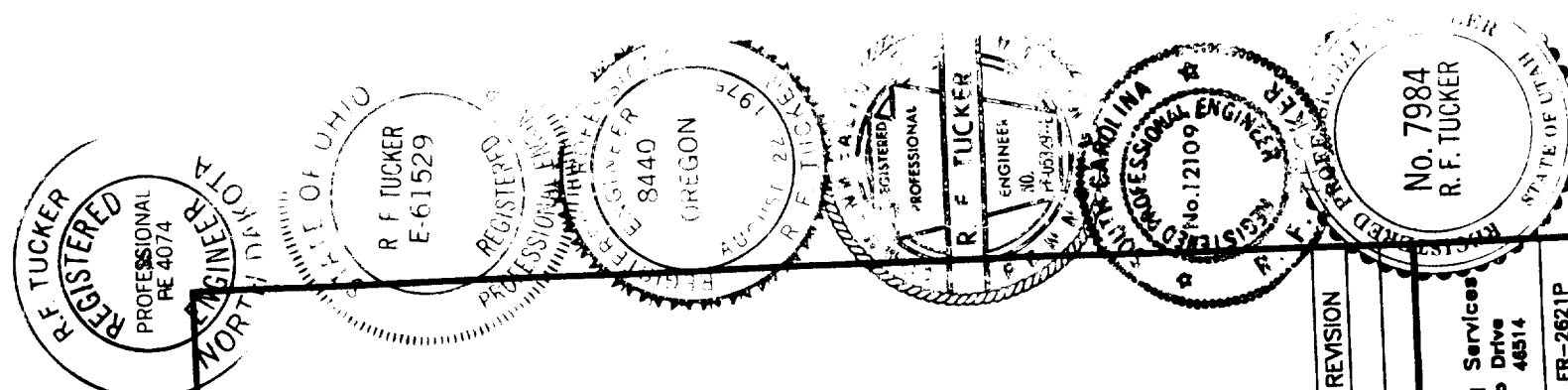
ICBO ES EVALUATION REPORT NO. ER-2621P

DRAWING OR PART NAME: STRUCTURAL CONFIGURATIONS

DATE: 2/8/2000

REVISION NUMBER: 97SC01

SHEET: 1 OF 2



DESIGN IN ACCORDANCE WITH THE UNIFORM BUILDING CODE 1997 EDITION.

- DESIGN IN ACCORDANCE WITH THE LATEST EDITION OF ALUMINUM ASSOCIATION'S SPECIFICATIONS AND CHAPTER 20 OF THE UNIFORM BUILDING CODE.
- EACH BUILDING PERMIT SHALL BE ACCOMPANIED BY TWO COMPLETELY DIMENSIONED PLOT PLANS SHOWING EXACT LOCATION AND SIZE OF EXISTING AND PROPOSED STRUCTURES.
- DESIGN LOADINGS:
- APPENDIX CHAPTER 31 DIVISION III PATIO COVERS:

LIVELOAD: 10 POUNDS PER SQUARE FOOT
 20 POUNDS PER SQUARE FOOT
 25 POUNDS PER SQUARE FOOT
 30 POUNDS PER SQUARE FOOT
 40 POUNDS PER SQUARE FOOT
 60 POUNDS PER SQUARE FOOT

WIND LOAD: FOR 0.4:12 > SLOPE < 2:12

Speed mph	Height Zone	Simple Span Areas Unenclosed Enclosed	Design Lateral/Uplift Wind Pressure (psf) Eaves and Overhangs Unenclosed Enclosed
70	Less than 10'	7.5 11.3	7.5 11.3
90	Less than 10'	11.3 10	11.3 10
70	Less than 12'	10 15	10 15
90	Less than 12'	15 15	15 15

Speed mph	Exposure	Simple Span Areas Unenclosed Enclosed	Design Uplift Wind Pressure (psf) Eaves and Overhangs Unenclosed Enclosed
70	B	10.16 16.76	10.16 16.76
90	B	16.76 17.36	16.76 17.36
70	C	17.36 28.66	17.36 28.66
90	C	28.66 28.66	28.66 28.66

FOR DESIGN OF PRIMARY FRAME SYSTEMS

Exposure	Design Wind Pressure (psf)
70 mph	10.2
90 mph	16.8
70 mph	10.0
90 mph	15.0

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

R. F. TUCKER
 ENGINEER
 REG. NO. 6385

R. F. TUCKER
 ENGINEER
 REG. NO. 27575

R. F. TUCKER
 ENGINEER
 REG. NO. 12733

R. F. TUCKER
 ENGINEER
 REG. NO. 1833

R. F. TUCKER
 ENGINEER
 REG. NO. 9538

R. F. TUCKER
 ENGINEER
 REG. NO. 33793

R. F. TUCKER
 ENGINEER
 REG. NO. 60880160

R. F. TUCKER
 ENGINEER
 REG. NO. 11458

Americimax Engineering Services
 1140 All Pro Drive
 Elkhart, IN 46514

ICBO ES EVALUATION REPORT NO. ER-2621P

DATE: 2/8/2000

PROJECT NUMBER: 97GN01

SHEET 1 OF 2

REVISION	DATE