

CITY OF SACRAMENTO
1231 I Street, Sacramento, CA 95814

Permit No: 0014081
Insp Area: 4

Site Address: 5427 BANDERAS WY SAC
Parcel No: 201-0380-053

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

CONTRACTOR
YANCEY BROTHERS
8250 ALPINE AV STE A
SAC CA 95826

OWNER
GAETAN LEBEAU
5427 BANDERAS WY
SAC CA

ARCHITECT

Nature of Work: 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 B License Number 1604 73170 Date 11-27-00 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 above mentioned property for inspection purposes.

Date 11-27-00 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 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 11-27-00 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: _____

By: _____

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

Project Address: 5427 BANDERAS Way

Assessor's Parcel Number: 001-0580-053

Previous Use: S.F.

Description of Request/Proposed Use: 400' covered patio
Attached

Is This a Change of Use? NO

Zoning Designation: _____

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

Comments: Revised patio cover - 9 x 30'
meets lot coverage max (45% allowed)
meets

Needs sign off by D.R. due to thru street
patio faces the back onto a street.

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

- Per Ellen
no fee
if okay

Planning Review by/Date S. Lopez

15 Nov 00

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

MICROFILM AFTER FINAL

of mtg include of looked at photos
transmission - is OK
perspective
Per S.
no fee charge
11-27-00

Date of Request: _____

By: _____

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

Project Address: 5437 Banderas Way

Assessor's Parcel Number: 201-0330-053

Previous Use: AS

Description of Request/Proposed Use: Add Covered patio attached

Is This a Change of Use? No

Zoning Designation: RIA-PLD Northborough PUD

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

Comments: This would exceed maximum lot coverage - a variance would be required.

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: [Signature] 11-3-07

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

MICROFILM AFTER FINAL

NATOMAS PARK MASTER ASSOCIATION

P. O. Box 348600

Sacramento, CA 95824

(800) 696-7027 (916) 925-9000 (916) 567-6222 fax

e-mail infosac@vierramoore.com

November 21, 2000

*Gaetan and Deborah Lebeau
5427 Banderas Way
Sacramento, CA 95835*

RE: ARCHITECTURAL REVIEW – LOT V4NBL53

Dear Mr. and Mrs. Lebeau:

The Natomas Park Architectural Control Committee has reviewed the request to install a patio cover and has approved your request as submitted.

It is the owner's responsibility to obtain any necessary approvals and/or permits required by the City of Sacramento, and to be sure no building or zoning codes are violated.

Thank you for submitting your application. Good luck with your project and your new home. If you have any questions or if I can be of further assistance, please do not hesitate to give me a call.

Sincerely,



*Vicki Bohline
As Agent for Natomas Park Homeowners Association*

VB:pk

NatomasPark:V4NBL53

Plot Plan

AD: 16.6

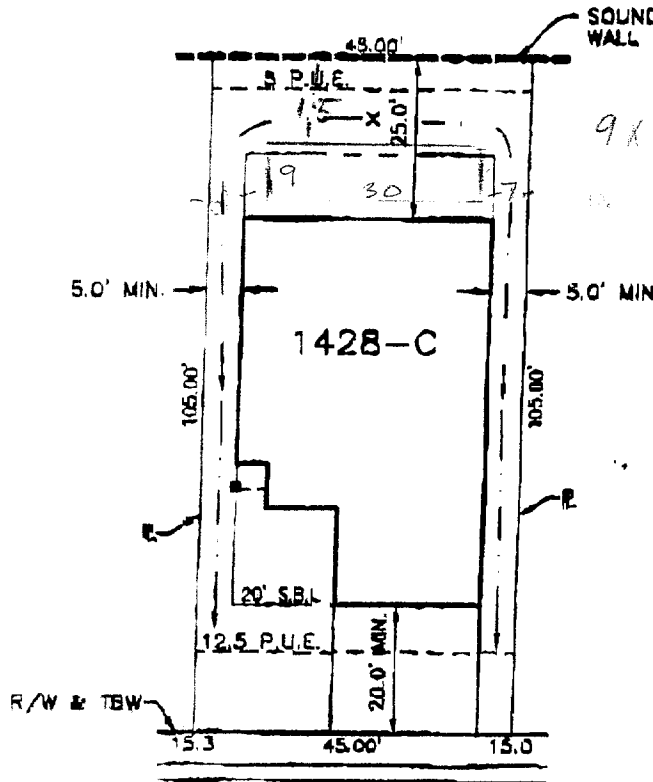
R.F.:

Lot conditions dictate custom development of each lot in relation to existing contours, adjacent lots and street improvements. Therefore, the contours of ungraded areas, the slopes and lot posts of graded areas, and the setback dimensions, as shown on the Plot Plan, are approximate and may vary when field construction is completed.

5427 BANDERAS

0014081

NORTHBOROUGH DRIVE



BANDERAS WAY

"BUILT IN CONFORMANCE WITH 1997 UBC"

ASSESSOR'S PARCEL NO. 201-0380-053

ADDRESS 5427 BANDERAS WAY

NOTE: It is understood that the drainage, erosion, slope and grades shall not be altered, changed, modified or improved by any construction to that is depicted on this Plot Plan. THESE CONDITIONS RUN WITH THE LAND AND ARE BINDING ON ALL SUBSEQUENT OWNERS.

LOT AREA = 4,728 SF
ALLOWED LOT COVERAGE = 45% = 2,126 SF
ACTUAL LOT COVERAGE = 39% = 1,853 SF

**MORRISON HOMES
VILLA COLLECTION
53 LOT# 83**

Morrison Homes Rep. _____ Date _____
City _____ Date _____

CITY OF SACRAMENTO SACRAMENTO COUNTY

CALIFORNIA

Original: [Signature] 7-10-00
Morrison Homes Rep. _____ Date _____

R.E.Y. ENGINEERS, Inc.
CIVIL ENGINEERS / LAND SURVEYORS



DATE OF ISSUE: 11/27/00
SCALE: AS SHOWN

NOTE: All setback dimensions and elevations as shown may be subject to field conditions.

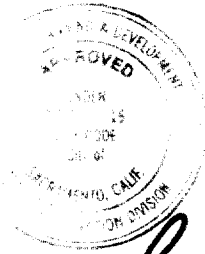
FOR INFORMATIONAL PURPOSES ONLY. FOR LOCATION OF EASEMENTS AND ENCUMBRANCES AND EXACT DIMENSIONS, THIS PLAN DOES NOT REFLECT THE LOCATION OF UNDERGROUND UTILITIES.

ISSUED

NOV 27 2000

Sacramento Building Division

Question:
5427 Banderas Way
500 sq ft
value \$13900



This set of plans and specifications must be kept on the job site. 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.

Final and 11/27/00

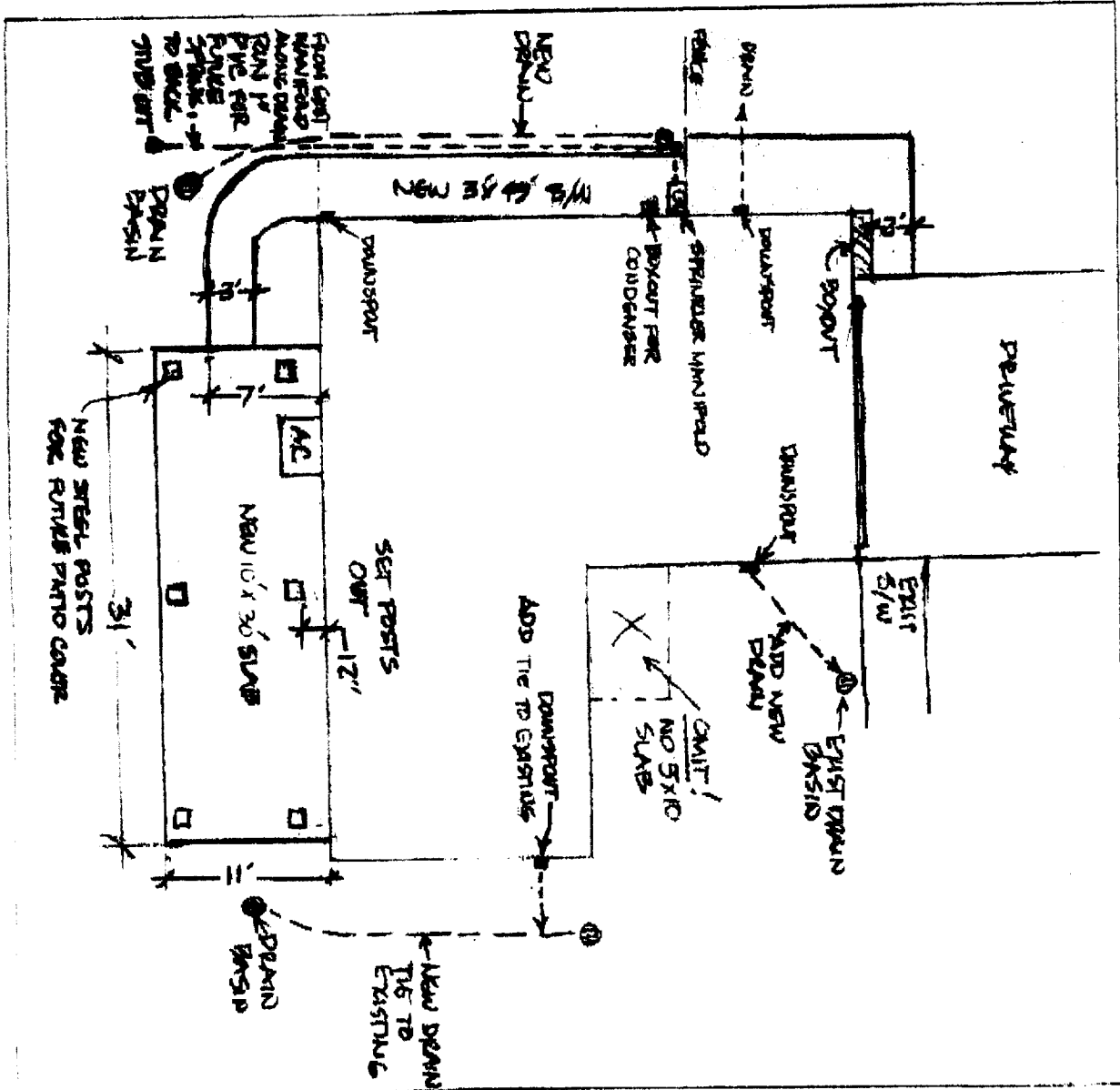
Revised
THE PLAN APPROVED: PLANNING DIVISION

15NOV00 S. [Signature]

Approval shall NOT be held to permit or approve the violation of any State law, City Ordinance or private agreement, and assumes that property lines and area of review submitted by the applicant are correct.

Need DR.

PLAN LAYOUT



SPECIAL INSTRUCTIONS:

1. FINISH: ALL NEW CONC. TO BE ROCK SALT FINISH



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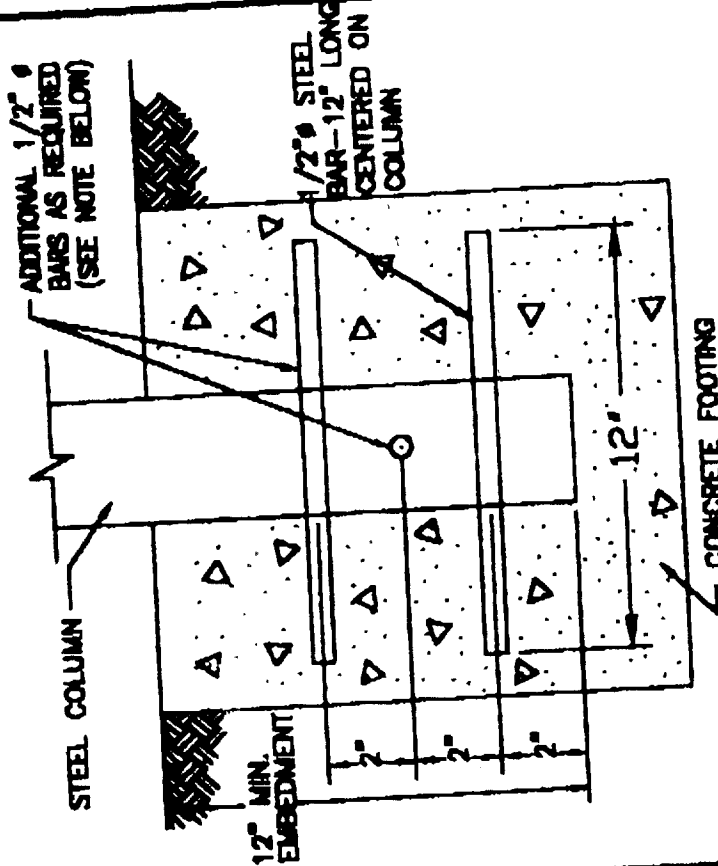
ISSUED

NOV 27 2000

Sacramento Building Division

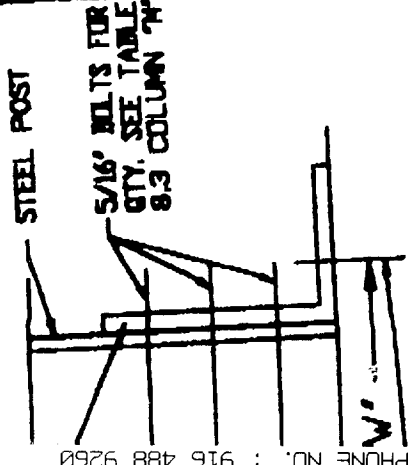
SEE NOTE: #2 DETAIL PER

**(AP) SAFETY STAKE
(ALTERNATE TO CONCRETE SLAB ATTACHMENT)**



NOTE:
 1 - 1/2" ϕ STEEL BAR FOR FOOTINGS UP TO 36" CUBE
 2 - 1/2" ϕ BARS FOR FOOTINGS UP TO 48" CUBE
 3 - 1/2" ϕ BARS FOR FOOTINGS UP TO 52" CUBE

(AT) ALTERNATE FREESTANDING STRUCTURE COLUMN TO FOOTING CONNECTION DETAIL



RED "W" (WIDTH)	MINIMUM "W" (WIDTH)
3"	3"
4 1/2"	6"
7 1/2"	9"

STRUCTURE COLUMN TO FOOTING
 DETAIL "d" = 18" TO 32"

SCHEDULE "F" - COLI CONNECTIONS FOR 18" TO	
FOOTING SIZE "d" (INCHES)	HILTI FASTE (OR EQUAL)
"d" = 18"	2-1/4" x 2
20"	2-3/8" x 2 1
22"	
24"	
26"	2-1/2" x 3
28"	
30"	
32"	2-5/8" x
34"	
36"	
38"	
40"	
42"	

"d" SIZE IN ANCHOR BOLT OR OF EMBEDMENT. EXAMPLE: 2 1 ANCHOR "OR EQUAL" TO HILTI F APPROVED TO PROVIDE ALLOWA TENSION FOR ANCHOR BOLT "V KB-II ANCHOR BOLTS PER ICE

(AV) FOI

DATE _____ REVIS _____

APR 13 2000
 MAR 13 2000

STEEL
LONG
ED ON

RED
OWN

COLUMN

FO
TO
TO



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

FOOTING SIZE "D" (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		580f
22"		2-5/16" BOLTS	650f
24"		2-3/8" BOLTS	790f
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		2080f
34"			N/A
36"			N/A
38"			N/A
40"			N/A
42"		3-3/8" BOLTS	N/A

"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 #4627.

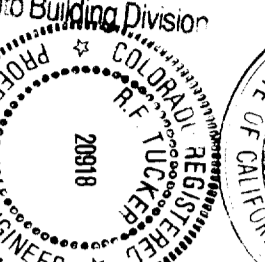
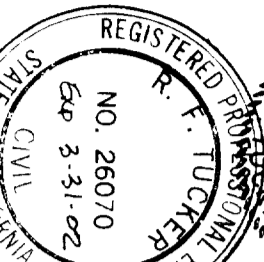
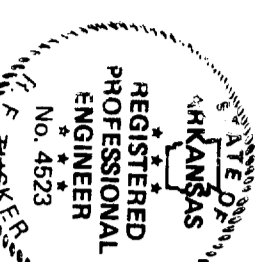
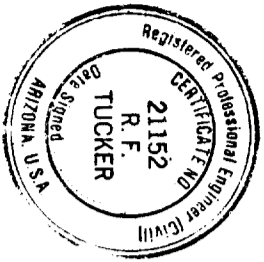
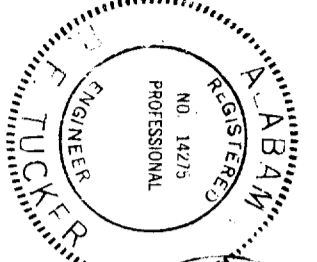
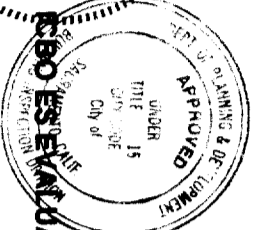
(AV) FOOTING SCHEDULE

DATE	REVISION	DATE	REVISION

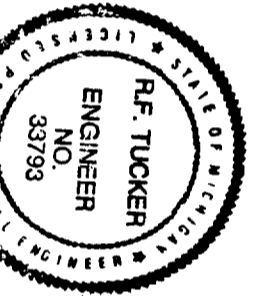
ISSUED

MAR 27 2000

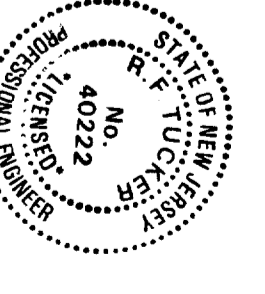
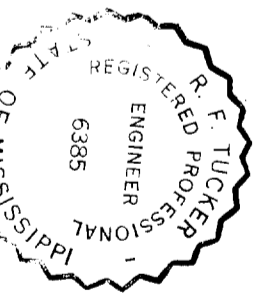
Sacramento Building Division



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 report is not to be construed as a violation of any City Ordinance or State Code.



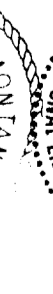
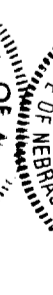
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.
R. F. TUCKER
Registration No. 22



PAGES

97GN01

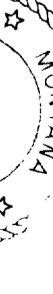
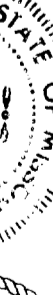
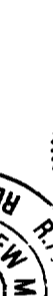
GENERAL NOTES



2 PAGES

97GN02

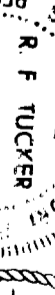
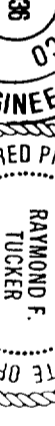
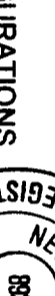
STRUCTURAL CONFIGURATIONS



2 PAGES

97SC01

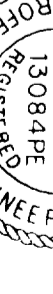
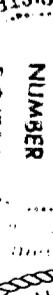
1.0 ROOF PANEL SPANS AND OVERHANGS



1 PAGE

97SC02

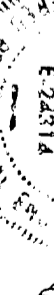
2.0 FREESTANDING AND ATTACHED PATIO STRUCTURES



2 PAGES

97CD01

3.0 FREESTANDING AND ATTACHED COMMERCIAL STRUCTURES



1 PAGE

97CD02

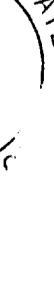
4.0 FREESTANDING AND ATTACHED LATTICE PATIO STRUCTURES



2 PAGES

97CD03

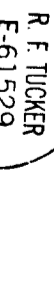
5.0 FREESTANDING AND ATTACHED LATTICE COMMERCIAL STRUCTURES



1 PAGE

97CD04

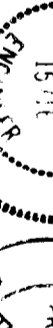
6.0 COLUMN AND FASTENER REQUIREMENTS FOR COMMERCIAL AND PATIO STRUCTURES



1 PAGE

97CD05

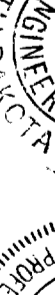
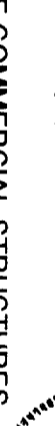
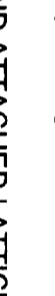
COMPONENT PARTS AND CONNECTION DETAILS



1 PAGE

97CD06

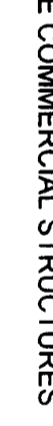
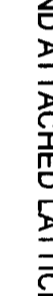
COMPONENT PARTS AND CONNECTION DETAILS FOR PATIO AND COMMERCIAL LATTICE STRUCTURES



1 PAGE

97CD07

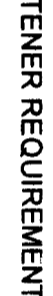
COMPONENT PARTS AND CONNECTION DETAILS FOR PATIO AND COMMERCIAL LATTICE STRUCTURES



1 PAGE

97CD08

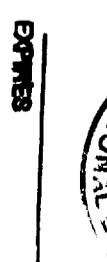
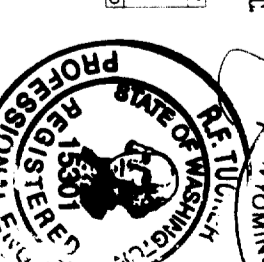
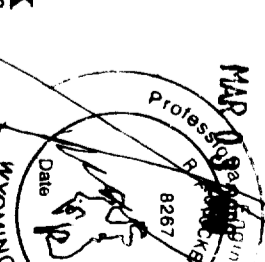
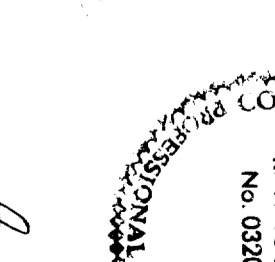
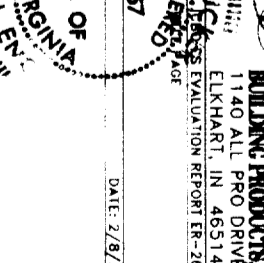
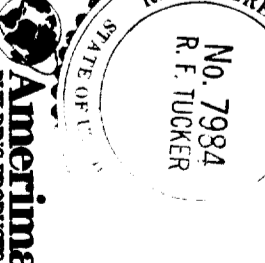
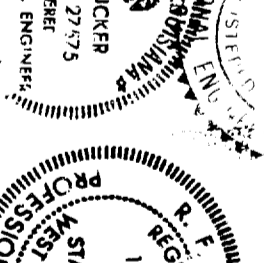
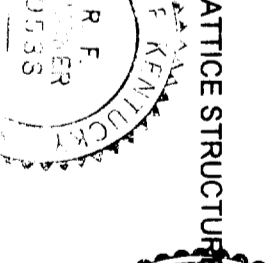
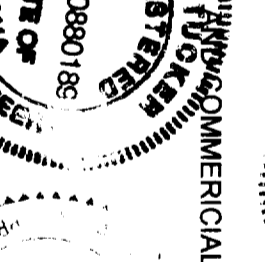
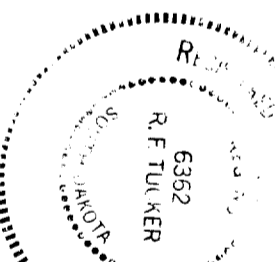
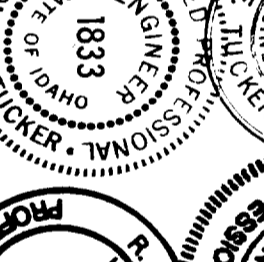
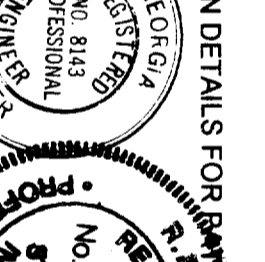
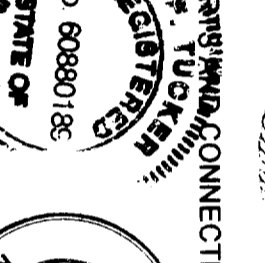
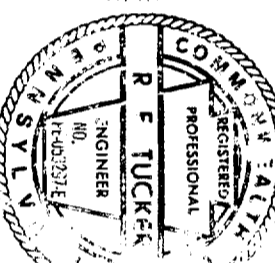
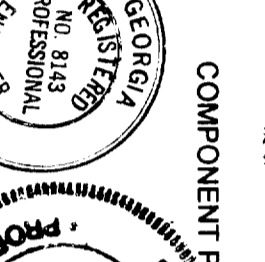
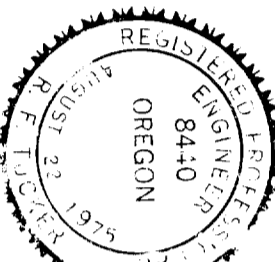
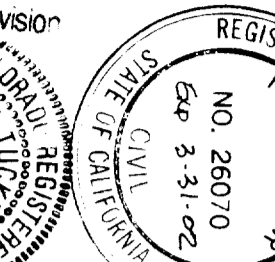
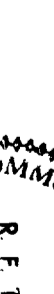
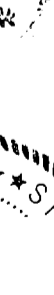
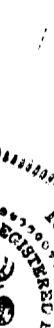
COMPONENT PARTS AND CONNECTION DETAILS FOR PATIO AND COMMERCIAL LATTICE STRUCTURES



1 PAGE

97CD09

COMPONENT PARTS AND CONNECTION DETAILS FOR PATIO AND COMMERCIAL LATTICE STRUCTURES



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

REGISTERED PROFESSIONAL ENGINEER R. F. TUCKER No. 7984 STATE OF TEXAS

REGISTERED PROFESSIONAL ENGINEER R. F. TUCKER No. 15301 STATE OF WASHINGTON

REGISTERED PROFESSIONAL ENGINEER R. F. TUCKER No. 15301 STATE OF WASHINGTON

2000

GENERAL NOTES:

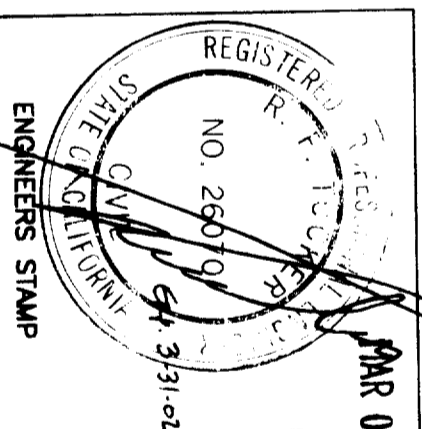
(CONTINUED FROM SHEET NO. 1)

- 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:

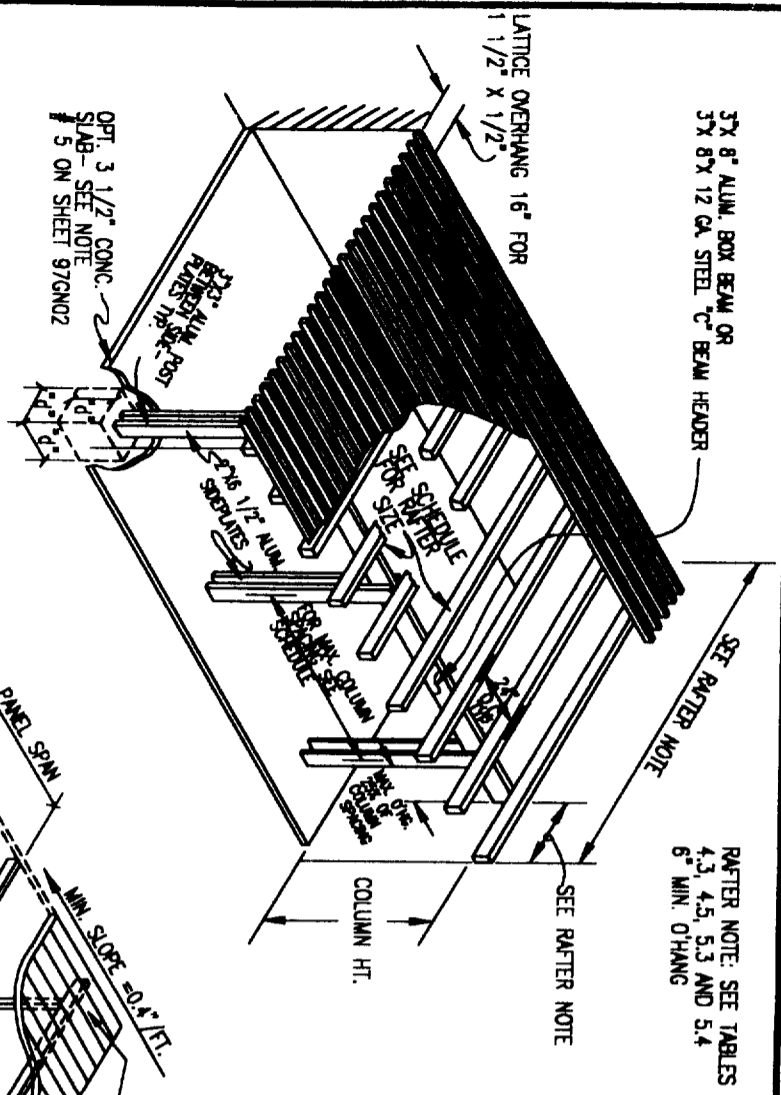
- (PERTAINS TO LATTICE STRUCTURES ON DRAWINGS 97SC02 AND 97LT01 THRU 97LT06.)
1. SEE GENERAL NOTES, SHEET 1, SECTION 4 FOR LIVELOAD AND WIND LOADS.
2. OPEN LATTICE STRUCTURES SHALL NOT BE ENCLOSED.



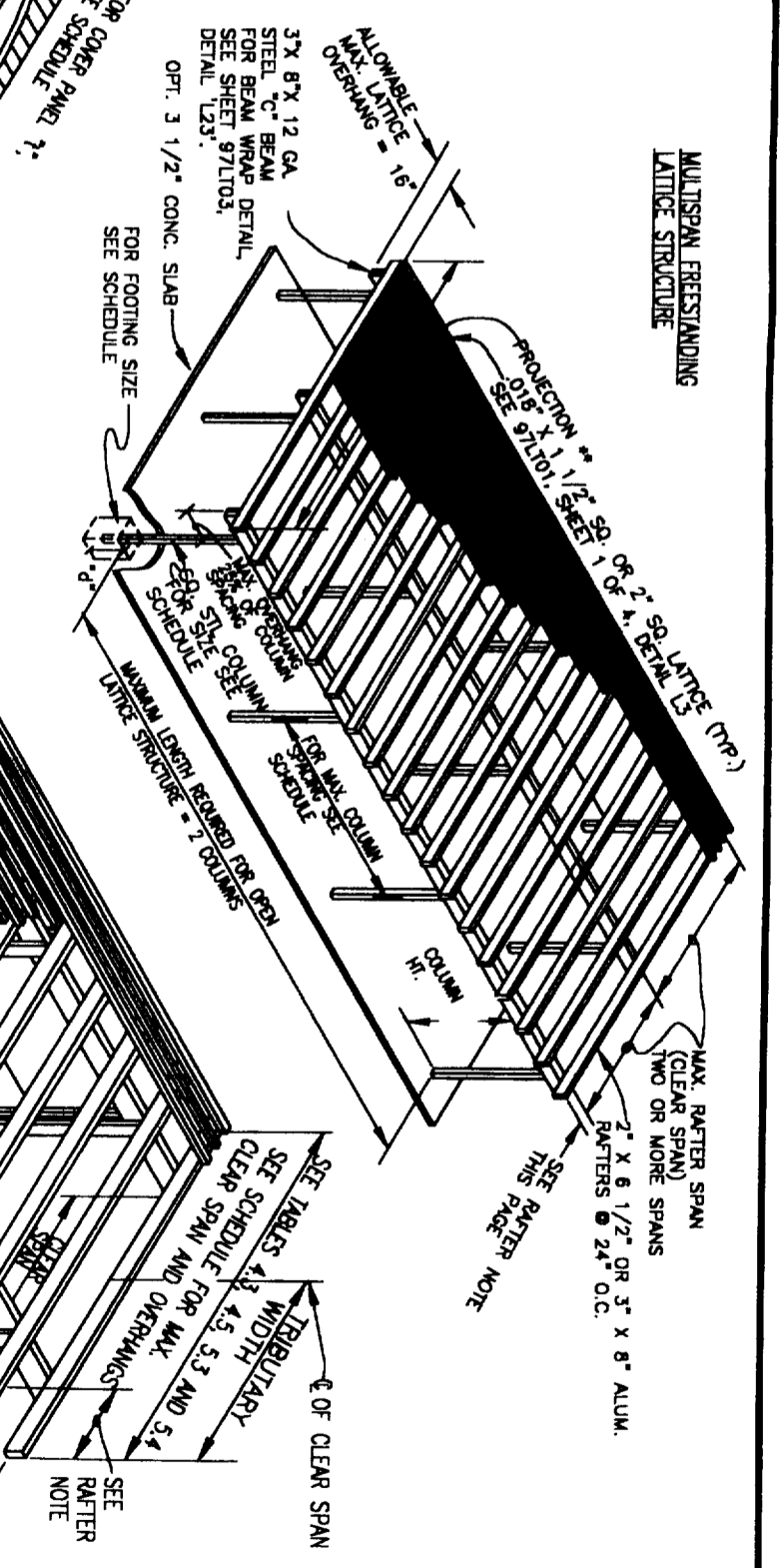
DATE	REVISION	DATE	REVISION
MAR 03 2000			

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11440 All Pro Drive
Elkhart, IN 46514

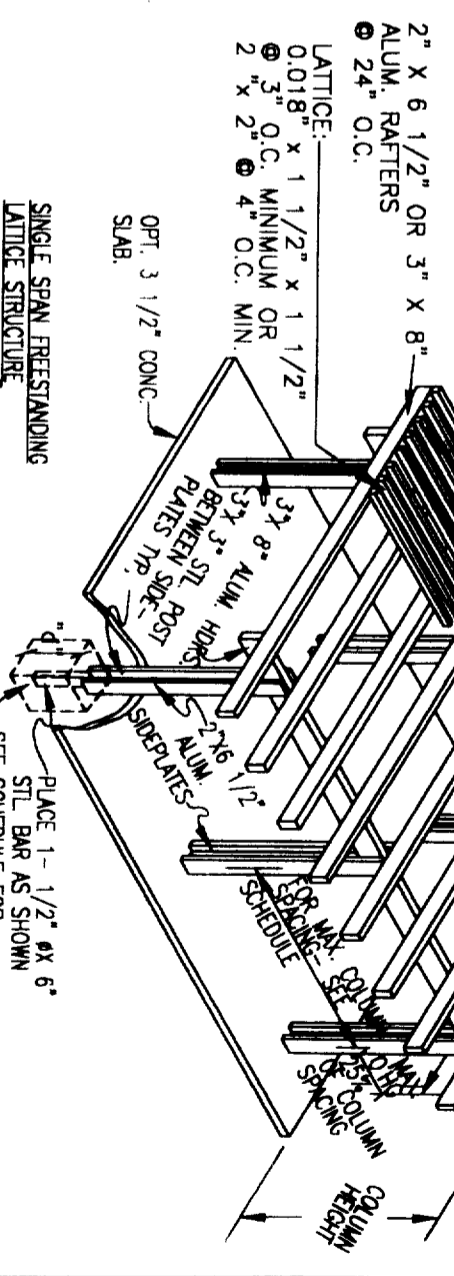
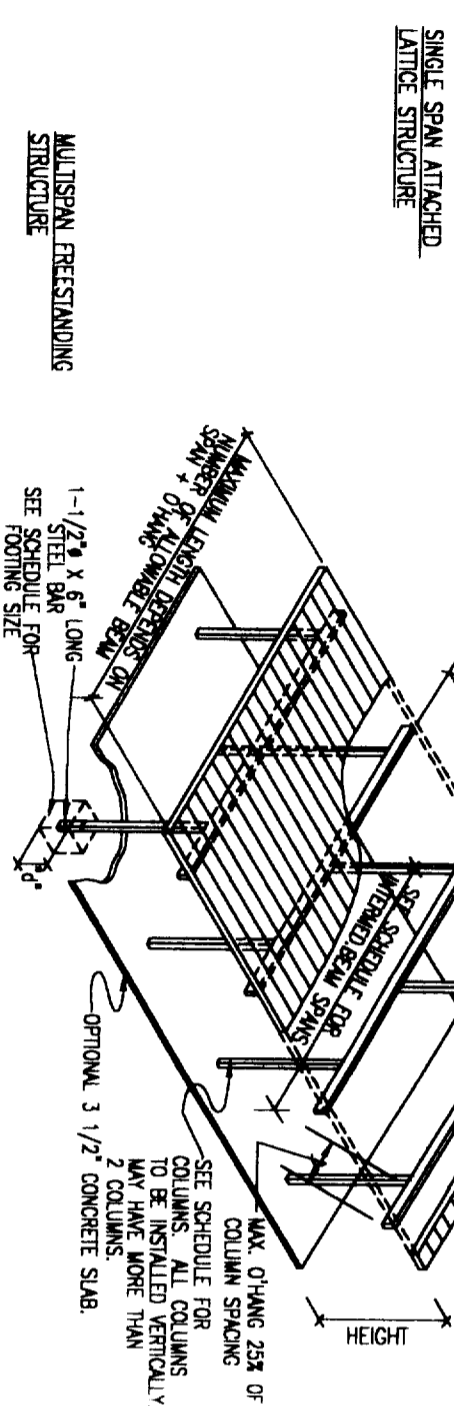
PROJECT: ICBO ES EVALUATION REPORT NO. ER-2621P
SCALE: NONE
DRAWING OR PART NAME: GENERAL NOTES
DATE: 2/8/2000
DRAWING NUMBER: 97GN02
SHEET: 2 OF 2



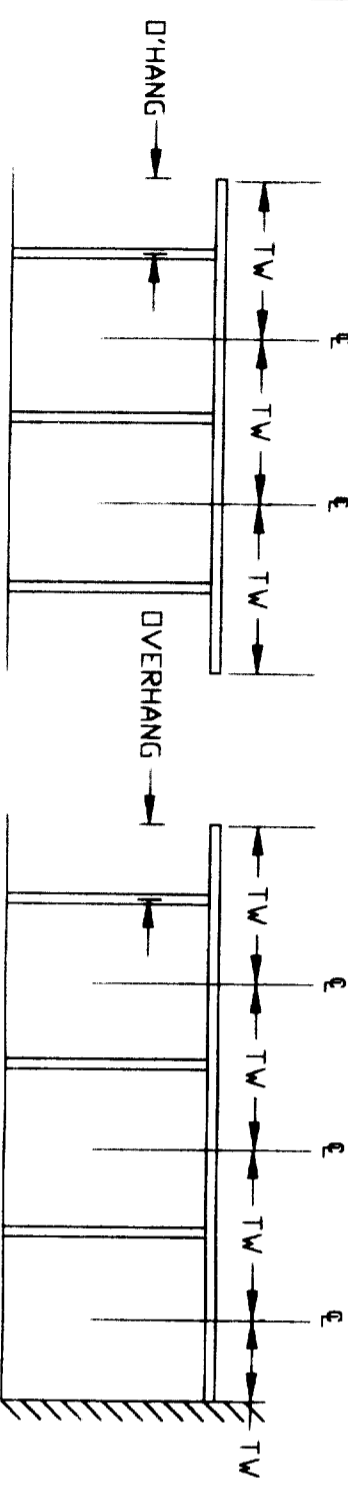
3x 8" ALUM. BOX BEAM OR 3x 8x 12 GA. STEEL "C" BEAM HEADER
 LATTICE OVERHANG 1 1/2" FOR 1 1/2" x 1 1/2"
 SEE RAFTER NOTE
 Rafter Note: See Tables 4.3, 4.5, 5.3 and 5.4
 6" MIN. O'HANG



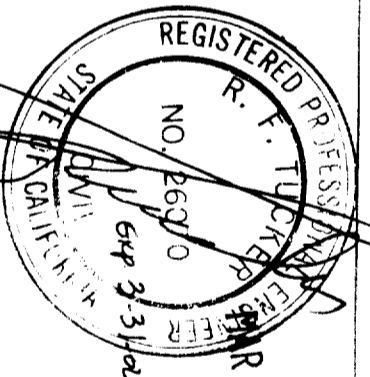
MULTISPAN FREESTANDING LATTICE STRUCTURE
 ALLOWABLE MAX. LATTICE OVERHANG = 16"
 3x 8" ALUM. BOX BEAM OR 3x 8x 12 GA. STEEL "C" BEAM FOR BEAM WRAP DETAIL SEE SHEET 97L103, DETAIL 'L25'.
 OPT. 3 1/2" CONC. SLAB FOR FOOTING SIZE SEE SCHEDULE
 PROJECTION ** 1 1/2" SQ. OR 2" SQ. LATTICE (TYP.)
 SEE 97L101, SHEET 1 OF 4, DETAIL 'L5'
 MAX. RAFTER SPAN (CLEAR SPAN) TWO OR MORE SPANS
 2" x 6 1/2" OR 3" x 8" ALUM. RAFTERS @ 24" O.C.
 SEE RAFTER NOTE



SINGLE SPAN FREESTANDING LATTICE STRUCTURE
 2" x 6 1/2" OR 3" x 8" ALUM. RAFTERS @ 24" O.C.
 LATTICE: 0.018" x 1 1/2" x 1 1/2" @ 3" O.C. MINIMUM OR 2" x 2" @ 4" O.C. MIN.
 OPT. 3 1/2" CONC. SLAB
 MAX. O'HANG 25% OF COLUMN SPACING
 SEE SCHEDULE FOR COLUMNS. ALL COLUMNS TO BE INSTALLED VERTICALLY
 MAY HAVE MORE THAN 2 COLUMNS.
 MINIMUM LENGTH REQUIRED FOR OPEN LATTICE STRUCTURE = 2 COLUMNS
 SEE RAFTER NOTE
 SEE TABLES 4.3, 4.5, 5.3 AND 5.4
 SEE SCHEDULE FOR MAX. CLEAR SPAN AND OVERHANGS
 TRIBUTARY WIDTH
 @ OF CLEAR SPAN
 COLUMN HEIGHT
 PLACE 1 - 1 1/2" x 6" STL BAR AS SHOWN
 SEE SCHEDULE FOR FOOTING SIZE



FREESTANDING STRUCTURE
 ATTACHED STRUCTURE
 TRIBUTARY WIDTH (TW) DIAGRAM



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 Elkhart, IN 46514

ICBO ES EVALUATION REPORT NO. ER-2621P

DATE	REVISION	DATE	REVISION
03/2000			

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

DRAWING OR PART NAME: STRUCTURAL CONFIGURATIONS
 DRAWING OR PART NUMBER: 97SC02
 SHEET: 2 OF 2

3.0 FREESTANDING AND ATTACHED COMMERCIAL STRUCTURES

LIVE LOAD	TRIB WIDTH	MAX COLUMN SPACING	6" BEAM				7" BEAM				10" BEAM						
			CONC. FOOTER SIZE	ATT. FOOTER SIZE	MAX COLUMN SPACING	ATT. COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER SIZE	MAX COLUMN SPACING	ATT. COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER SIZE	MAX COLUMN SPACING	ATT. COLUMN SPACING			
(PSF)	(FT)	(FT)	FT	FT	(FT)	(FT)	(FT)	FT	FT	(FT)	(FT)	(FT)	(FT)	FT	FT	(FT)	(FT)

LIVE LOAD	TRIB WIDTH	MAX COLUMN SPACING	3" COVERLEAF STEEL BEAM				8" STEEL C BEAM				10" STEEL C BEAM						
			CONC. FOOTER SIZE	ATT. FOOTER SIZE	MAX COLUMN SPACING	ATT. COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER SIZE	MAX COLUMN SPACING	ATT. COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER SIZE	MAX COLUMN SPACING	ATT. COLUMN SPACING			
(PSF)	(FT)	(FT)	FT	FT	(FT)	(FT)	(FT)	FT	FT	(FT)	(FT)	(FT)	(FT)	FT	FT	(FT)	(FT)

LIVE LOAD	TRIB WIDTH	MAX COLUMN SPACING	70 & 90 MPH EXPOSURE C				70 & 90 MPH EXPOSURE B				90 MPH EXPOSURE C						
			CONC. FOOTER SIZE	ATT. FOOTER SIZE	MAX COLUMN SPACING	ATT. COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER SIZE	MAX COLUMN SPACING	ATT. COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER SIZE	MAX COLUMN SPACING	ATT. COLUMN SPACING			
(PSF)	(FT)	(FT)	FT	FT	(FT)	(FT)	(FT)	FT	FT	(FT)	(FT)	(FT)	(FT)	FT	FT	(FT)	(FT)

LIVE LOAD	TRIB WIDTH	MAX COLUMN SPACING	70 MPH EXPOSURE C				70 MPH EXPOSURE B				90 MPH EXPOSURE C						
			CONC. FOOTER SIZE	ATT. FOOTER SIZE	MAX COLUMN SPACING	ATT. COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER SIZE	MAX COLUMN SPACING	ATT. COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER SIZE	MAX COLUMN SPACING	ATT. COLUMN SPACING			
(PSF)	(FT)	(FT)	FT	FT	(FT)	(FT)	(FT)	FT	FT	(FT)	(FT)	(FT)	(FT)	FT	FT	(FT)	(FT)

LIVE LOAD	TRIB WIDTH	MAX COLUMN SPACING	90 MPH EXPOSURE C				90 MPH EXPOSURE B				90 MPH EXPOSURE C						
			CONC. FOOTER SIZE	ATT. FOOTER SIZE	MAX COLUMN SPACING	ATT. COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER SIZE	MAX COLUMN SPACING	ATT. COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER SIZE	MAX COLUMN SPACING	ATT. COLUMN SPACING			
(PSF)	(FT)	(FT)	FT	FT	(FT)	(FT)	(FT)	FT	FT	(FT)	(FT)	(FT)	(FT)	FT	FT	(FT)	(FT)

LIVE LOAD	TRIB WIDTH	MAX COLUMN SPACING	MAXIMUM COLUMN HEIGHT				SINGLE OR MULTISPAN										
			SPAN	ATTACHED	FREESTANDING	OR MULTISPAN ATTACHED	SPAN	ATTACHED	FREESTANDING	OR MULTISPAN ATTACHED							
COL																	

LIVE LOAD	PROJ. TON	MAX COLUMN SPACING	5 1/2" EXTRUDED HEADER			
			CONC. FOOTER SIZE	ATT. FOOTER SIZE	MAX COLUMN SPACING	ATT. COLUMN SPACING
(PSF)	(FT)	(FT)	FT	FT	(FT)	(FT)

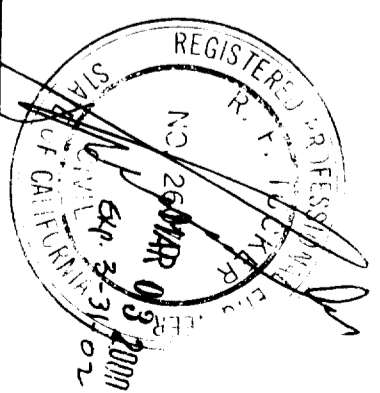
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			CONC. FOOTER SIZE	ATT. FOOTER SIZE	MAX COLUMN SPACING	ATT. COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER SIZE	MAX COLUMN SPACING	ATT. COLUMN SPACING	
(PSF)	(FT)	(FT)	FT	FT	(FT)	(FT)	(FT)	FT	FT	(FT)	(FT)

LIVE LOAD	TRIB WIDTH	MAX COLUMN SPACING	70 MPH EXPOSURE B				90 MPH EXPOSURE C				
			CONC. FOOTER SIZE	ATT. FOOTER SIZE	MAX COLUMN SPACING	ATT. COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER SIZE	MAX COLUMN SPACING	ATT. COLUMN SPACING	
(PSF)	(FT)	(FT)	FT	FT	(FT)	(FT)	(FT)	FT	FT	(FT)	(FT)

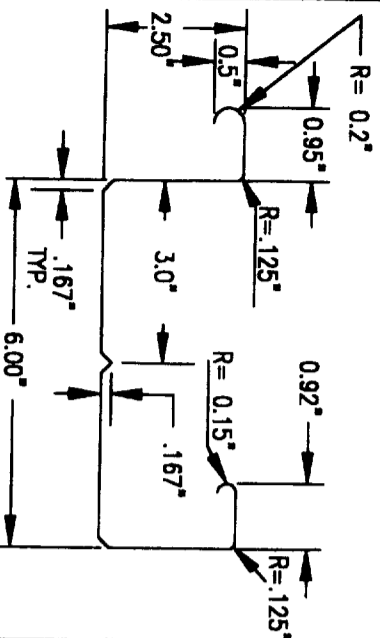
LIVE LOAD	TRIB WIDTH	MAX COLUMN SPACING	70 MPH EXPOSURE C				90 MPH EXPOSURE B				90 MPH EXPOSURE C						
			CONC. FOOTER SIZE	ATT. FOOTER SIZE	MAX COLUMN SPACING	ATT. COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER SIZE	MAX COLUMN SPACING	ATT. COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER SIZE	MAX COLUMN SPACING	ATT. COLUMN SPACING			
(PSF)	(FT)	(FT)	FT	FT	(FT)	(FT)	(FT)	FT	FT	(FT)	(FT)	(FT)	(FT)	FT	FT	(FT)	(FT)

LIVE LOAD	TRIB WIDTH	MAX COLUMN SPACING	70 MPH EXPOSURE C				90 MPH EXPOSURE B				90 MPH EXPOSURE C						
			CONC. FOOTER SIZE	ATT. FOOTER SIZE	MAX COLUMN SPACING	ATT. COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER SIZE	MAX COLUMN SPACING	ATT. COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER SIZE	MAX COLUMN SPACING	ATT. COLUMN SPACING			
(PSF)	(FT)	(FT)	FT	FT	(FT)	(FT)	(FT)	FT	FT	(FT)	(FT)	(FT)	(FT)	FT	FT	(FT)	(FT)

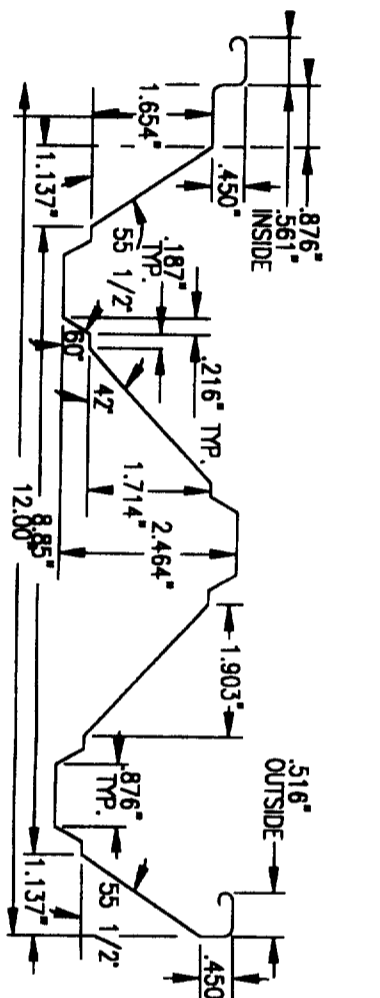
LIVE LOAD	TRIB WIDTH	MAX COLUMN SPACING	90 MPH EXPOSURE C				90 MPH EXPOSURE B				90 MPH EXPOSURE C						
			CONC. FOOTER SIZE	ATT. FOOTER SIZE	MAX COLUMN SPACING	ATT. COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER SIZE	MAX COLUMN SPACING	ATT. COLUMN SPACING	CONC. FOOTER SIZE	ATT. FOOTER SIZE	MAX COLUMN SPACING	ATT. COLUMN SPACING			
(PSF)	(FT)	(FT)	FT	FT	(FT)	(FT)	(FT)	FT	FT	(FT)	(FT)	(FT)	(FT)	FT	FT	(FT)	(FT)



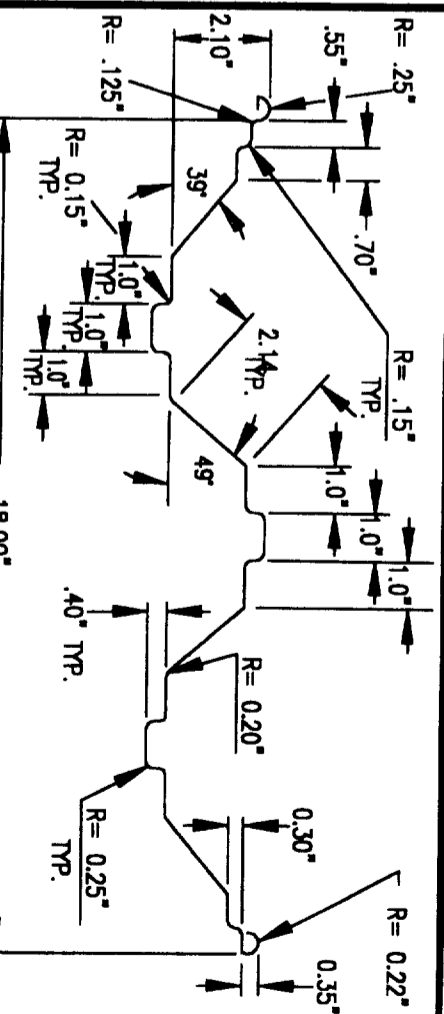
IBO ES EVALUATION REPORT ER-6521P
 ELKHART, IN 46514
 1140 ALL PRO DRIVE
 HEADER SPANS, COLUMN SPACING,
 FOOTER SIZE AND COLUMN TYPE FOR
 FREESTANDING AND ATTACHED
 COMMERCIAL STRUCTURES
 SHEET 5 OF 8 DATE 2/8/2000



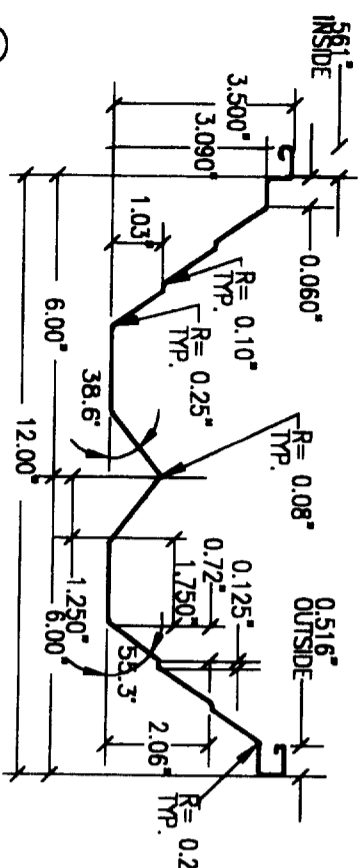
(A) 6" STRUCTURAL PANEL
(3006-H391 ALUM. ALLOY)



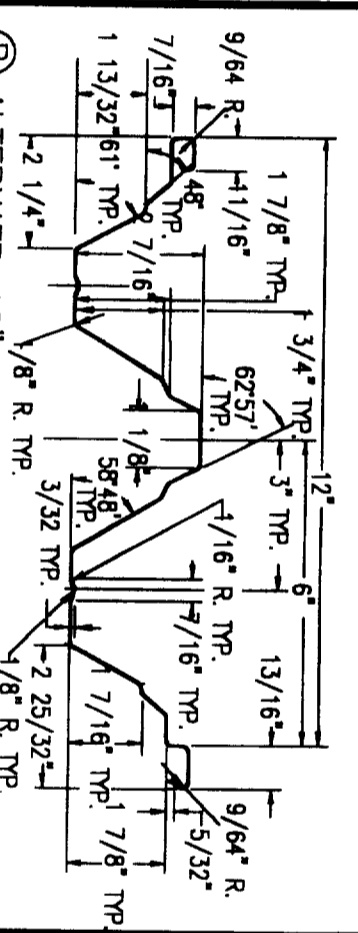
(B) 12" STRUCTURAL PANEL (3006-H391 ALUM. ALLOY)
FOR STEEL PANEL: ASTM A 653 GRADE 80 STRUCTURAL QUALITY
F_y = 80 KSI STEEL
30 GA GALV T = .0157
28 GA GALV T = .0187



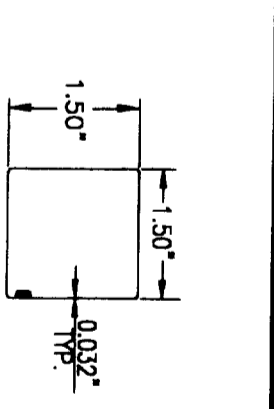
(C) 18" STRUCTURAL PANEL (3006-H391 ALUM. ALLOY)
FOR STEEL PANEL: ASTM A 653 GRADE 50, SQ CLASS 1
F_y = 50 KSI STEEL
30 GA GALV, t = .0157"



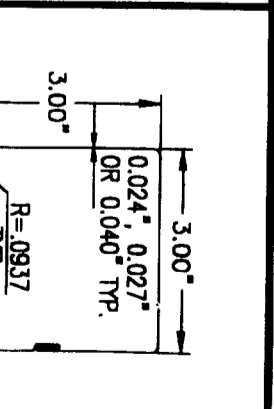
(D) 3 1/2" X 12" STRUCTURAL PANEL



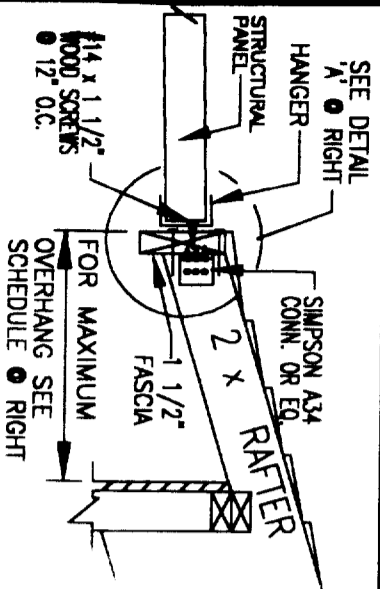
(E) ALTERNATE-12" STRUCTURAL PANEL
(3006-H391 ALUM. ALLOY)



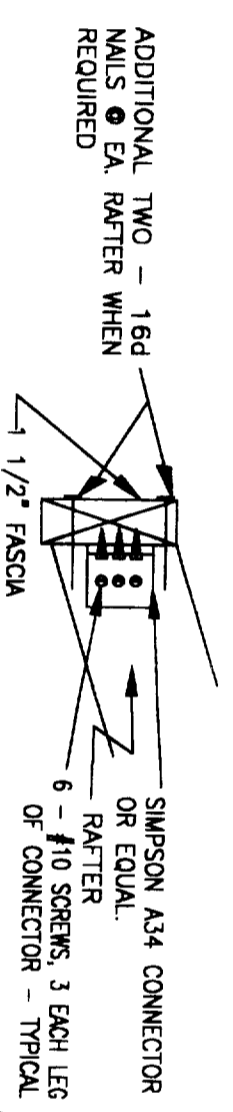
(F) 1 1/2" SQUARE COLUMN
(3003-H16 ALUM. ALLOY)



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



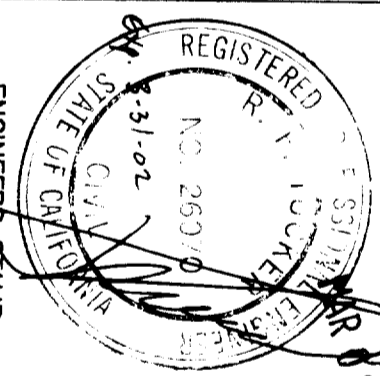
(A) ALTERNATE EAVE ATTACHMENT



DETAIL "A"

SCHEDULE FOR MAXIMUM RAFTER OVERHANGS FOR AWNING PROJECTIONS

RAFTER LEVEL LOADS (P.S.F.)	RAFTER LEVEL LOADS (P.S.F.)	RAFTER LEVEL LOADS (P.S.F.)
10' 20'	25' 30' 40'	60' 10' 20' 25' 30' 40' 60'
8'	20' 17' 14' 11'	8'
10'	26' 17' 14' 12' 9"	10'
12'	23' 15' 12' 10'	12'
13'	21' 13' 11'	13'
16'	19'	16'
18'	17'	18'
19'	17'	19'



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Elkhart, IN 46514

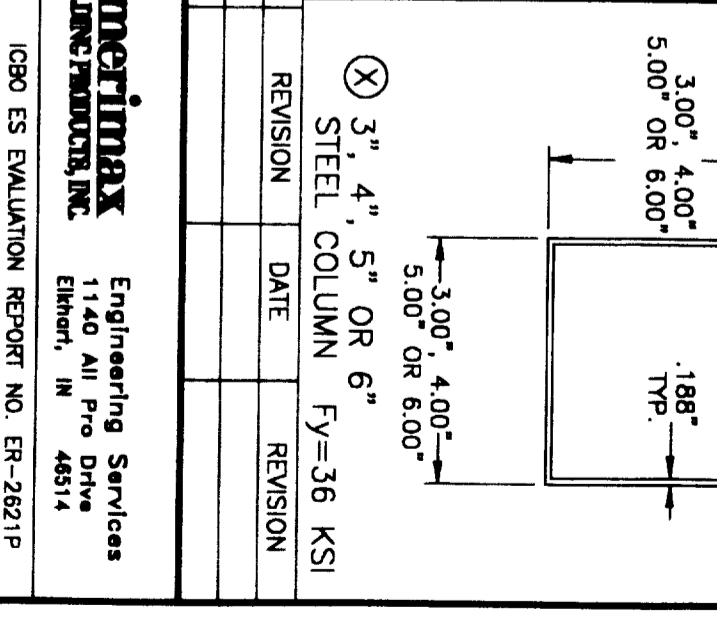
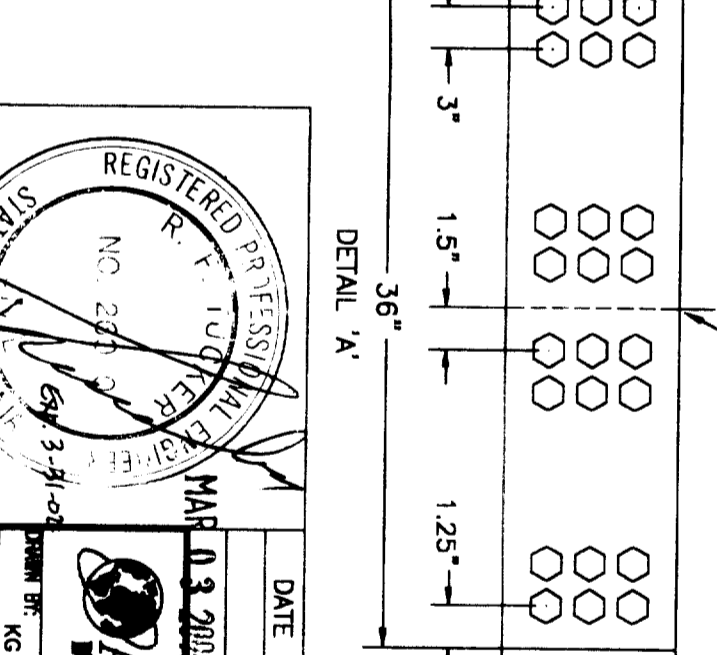
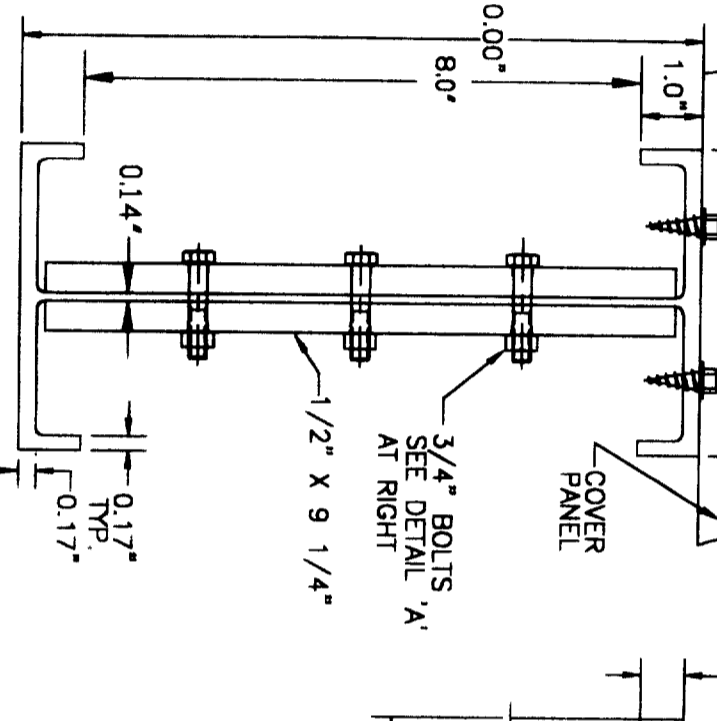
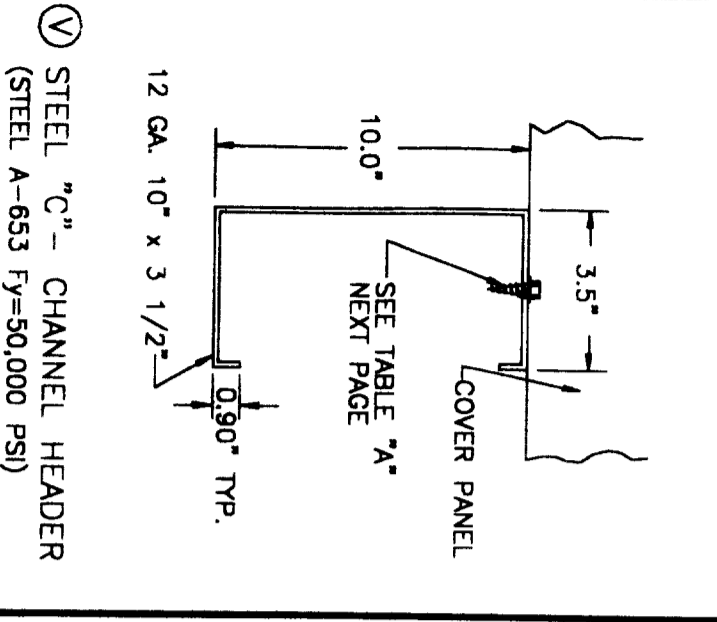
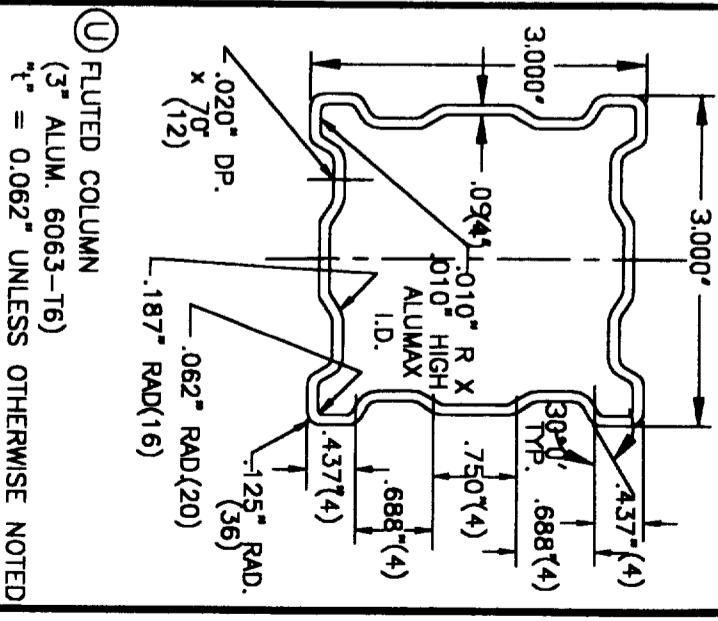
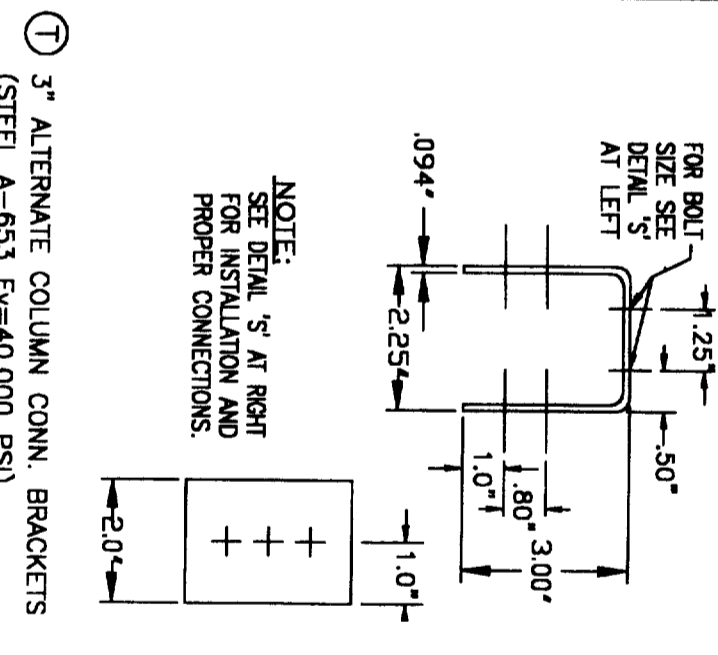
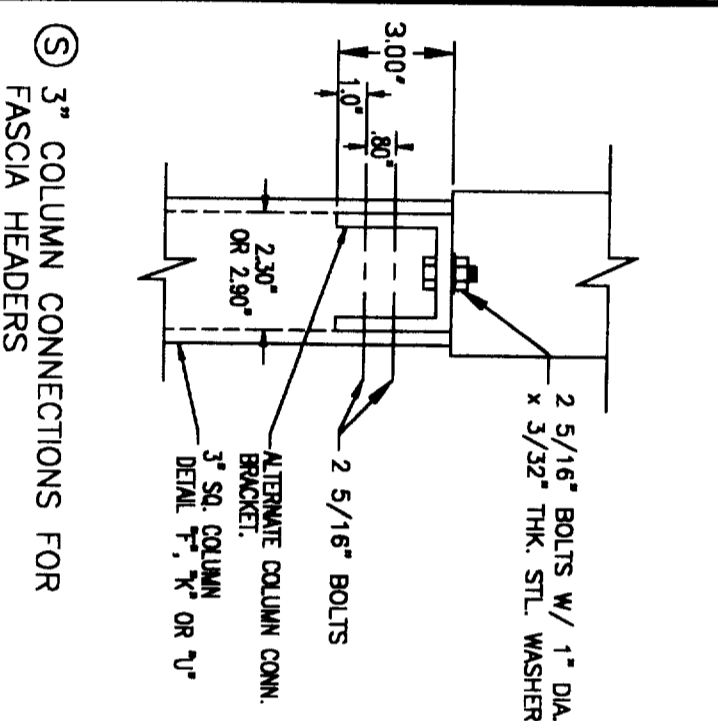
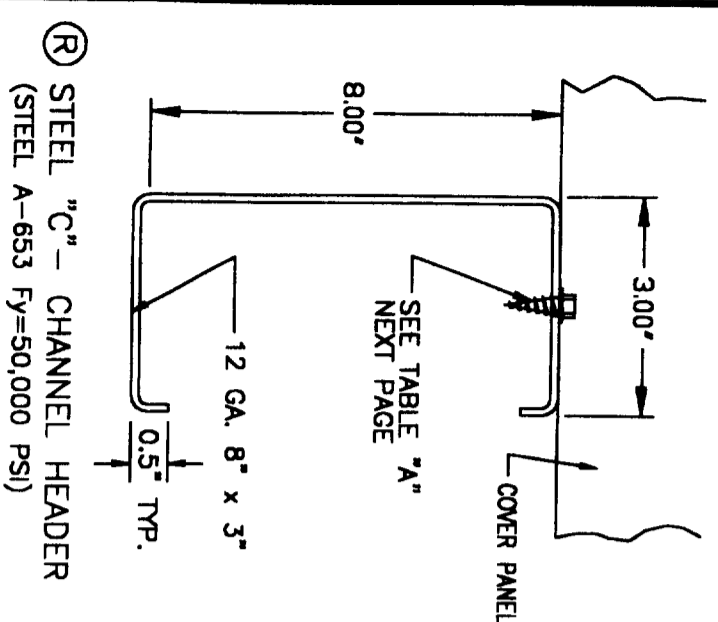
ICBO ES EVALUATION REPORT NO. ER-2621P

DATE	REVISION	DATE	REVISION
2/8/2000			

STRUCTURAL PANELS + TYP. CONNECTION DETAILS

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

1 OF 9

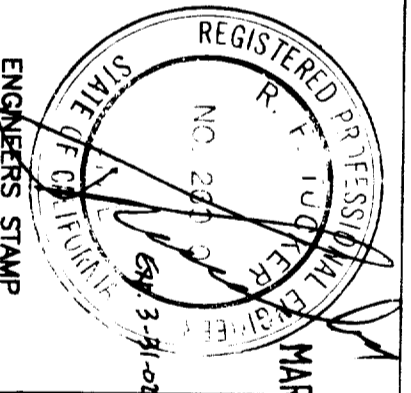


STEEL "C" - CHANNEL HEADER
(STEEL A-653 Fy=50,000 PSI)

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

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

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

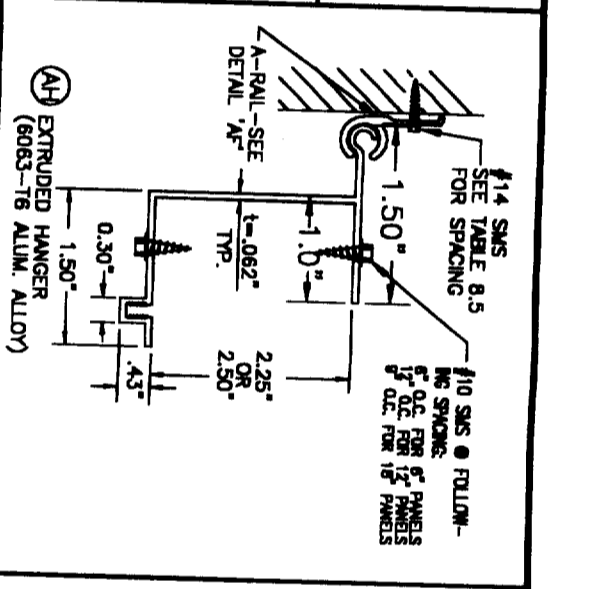
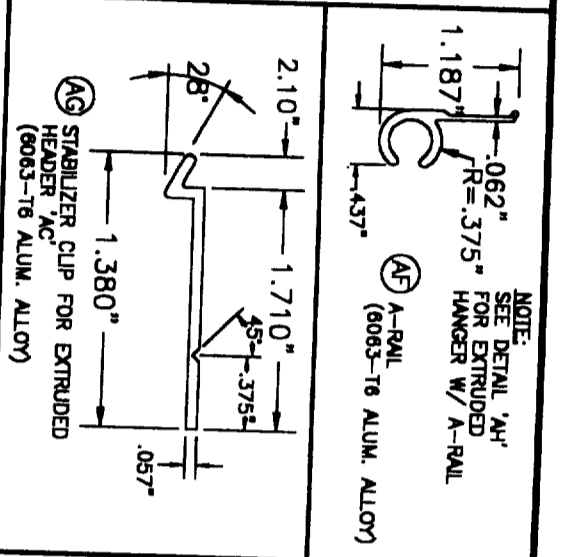
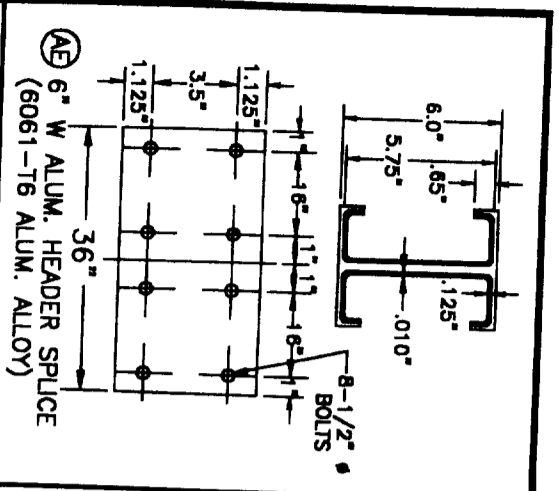


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MAR 03 2000			

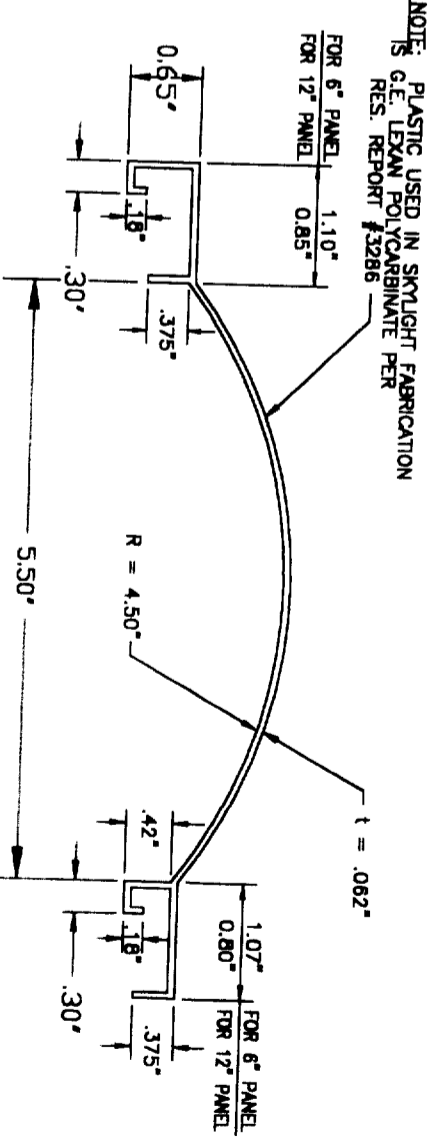
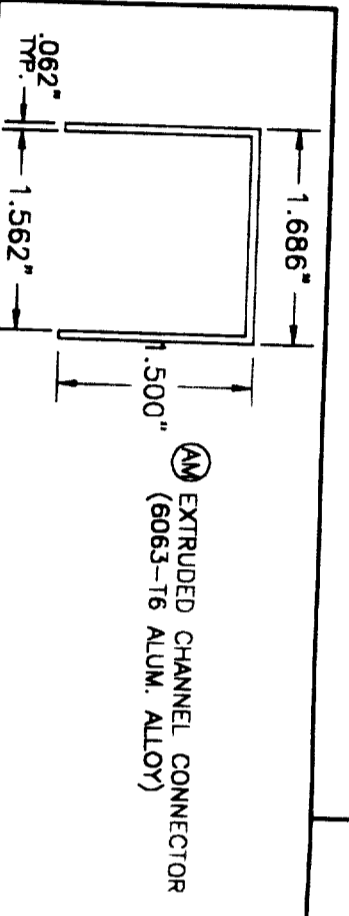
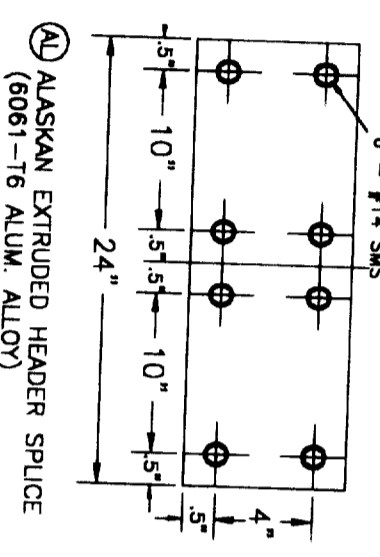
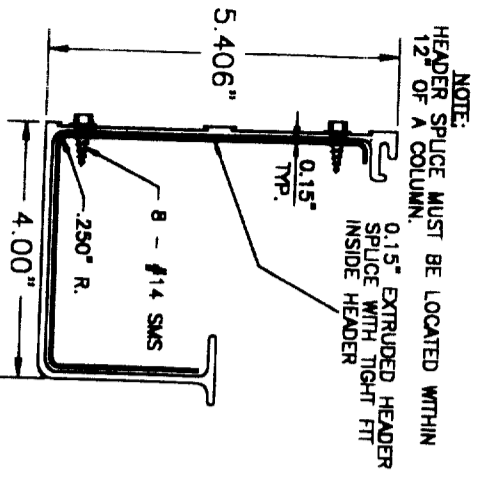
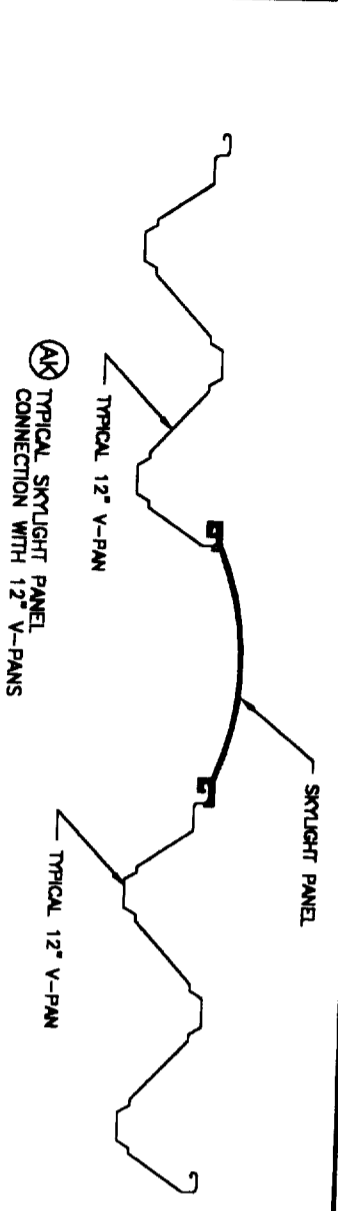
DRAWING OR PART NUMBER: 97CD03
SHEET: 3 OF 9



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

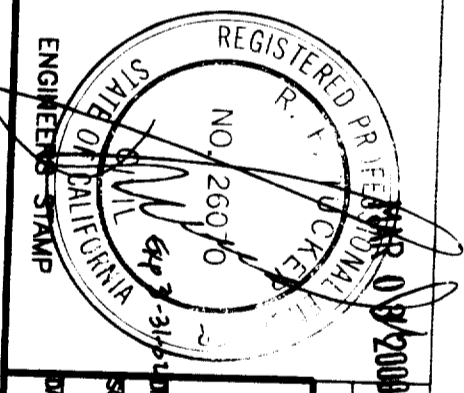
LEVELLOAD (PSF)	*6" PANEL SPANS				*12" PANEL SPANS			
	t ₁	t ₂	t ₃	t ₄	t ₁	t ₂	t ₃	t ₄
10	11'-9"	14'-5"	17'-2"	17'-9"	11'-0"	13'-3"	14'-7"	15'-1"
20	8'-8"	10'-6"	12'-6"	13'-5"	7'-11"	10'-4"	11'-8"	12'-1"
25	7'-2"	9'-5"	11'-3"	12'-1"	7'-2"	9'-3"	10'-7"	11'-2"
30	6'-1"	8'-8"	10'-4"	11'-1"	6'-7"	8'-6"	9'-9"	10'-3"

* 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**



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

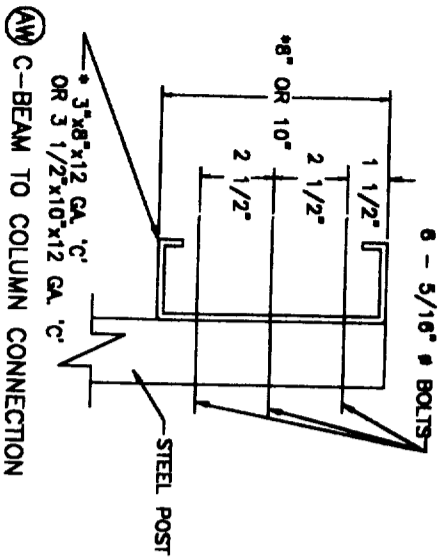
DATE	REVISION	DATE	REVISION
08/2000			



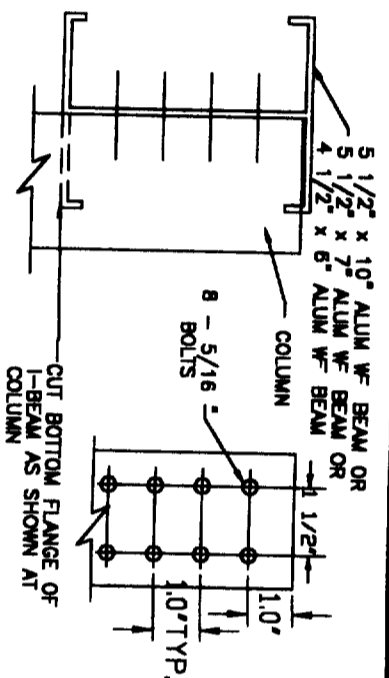
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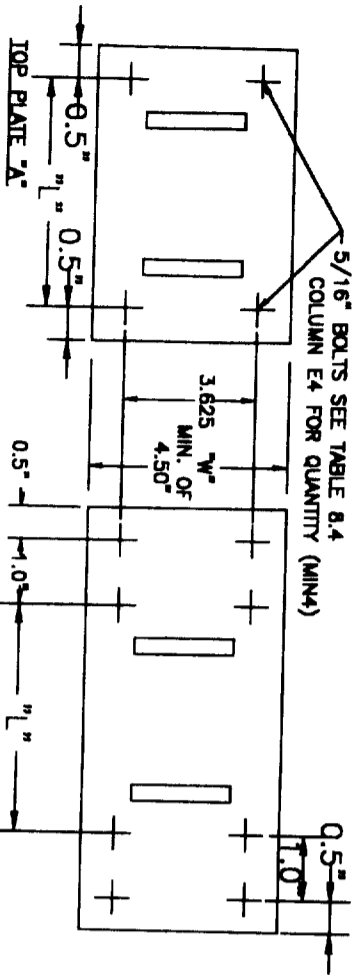
DATE: 2/8/2000
DRAWING NUMBER: 97CD05
SHEET: 5 OF 9



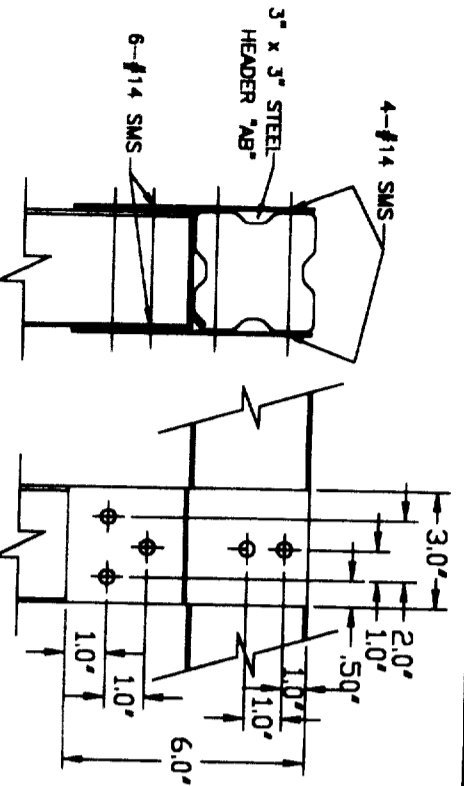
AW C-BEAM TO COLUMN CONNECTION



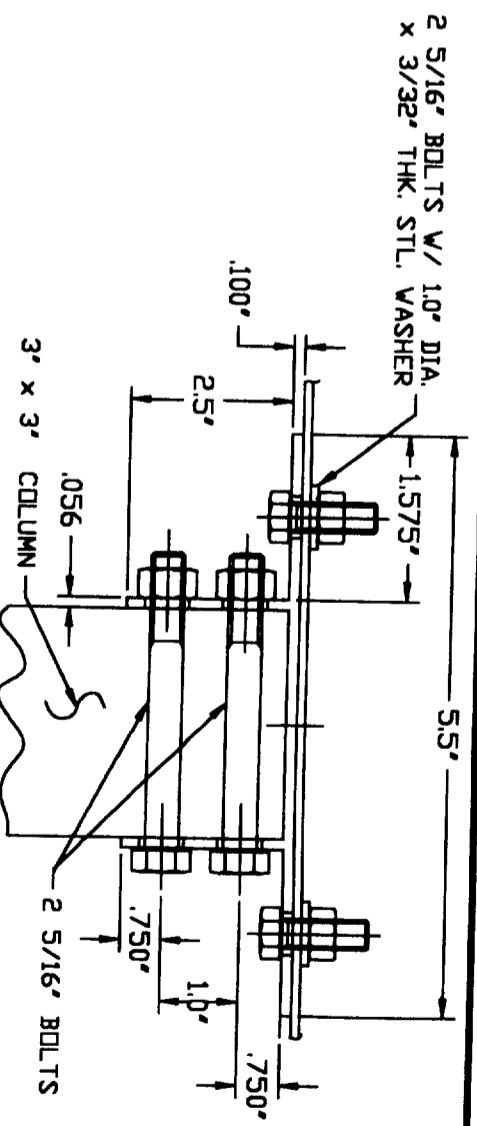
AZ ALTERNATE - 4 1/2" X 6" X 5 1/2" X 7" ALUM. W BEAM CONNECTION DETAIL



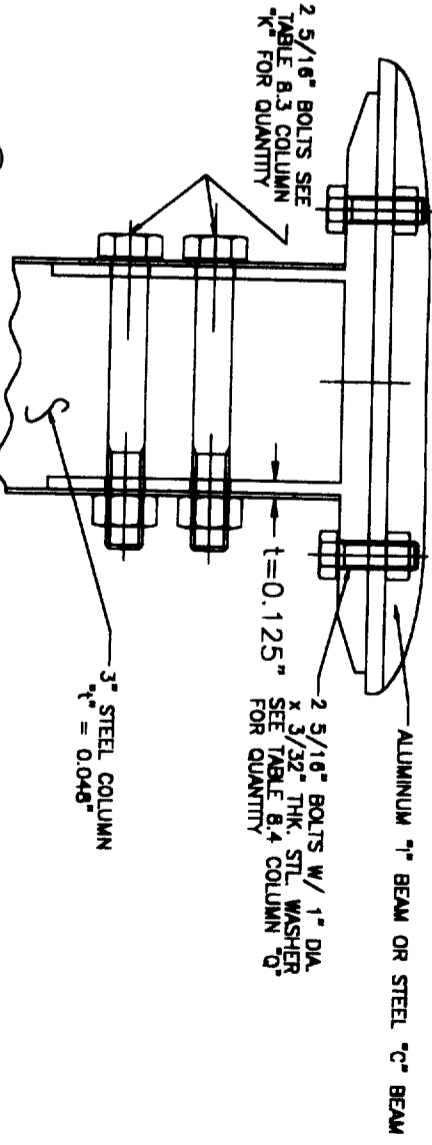
BD TOP PLATES 'A' & 'B' AND SCHEDULE 'B' FOR TOP PLATE CONNECTIONS WITH 'T' BEAMS (Y, Z, AA) ON STEEL POSTS



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



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



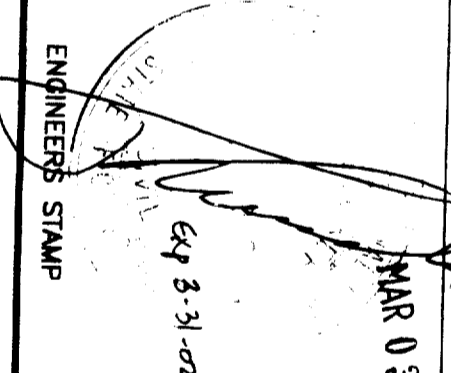
BC 3" STEEL COLUMN TO HEADER CONN. BRACKET (6063-T6 ALUM.)

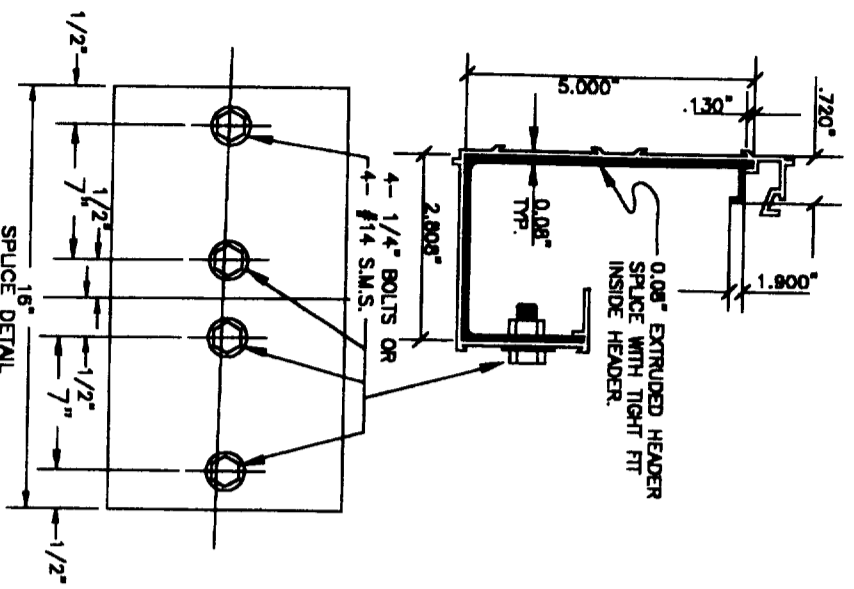
ALL 'T' BEAMS & 'C' BEAMS USE TABLE 8.3 COLUMN 'J' FOR QUANTITY OF HORIZONTAL BOLTS USE TABLE 8.4 COLUMN 'N' FOR VERTICAL BOLTS.

DATE	REVISION	DATE	REVISION
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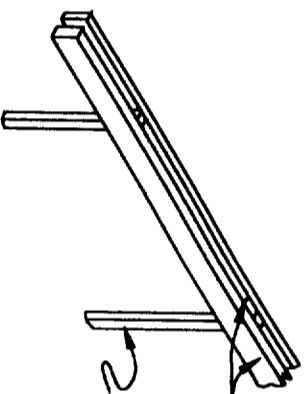
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DATE: 2/8/2000
DRAWING NUMBER: 97CD07
SHEET: 7 OF 9



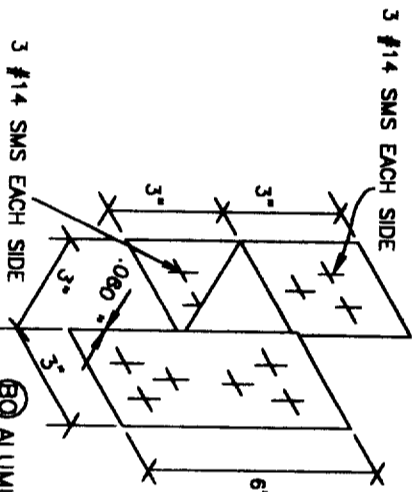


Bj 5 1/2" EXTRUDED HEADER SPLICE
(6061-T6 ALUM. ALLOY)

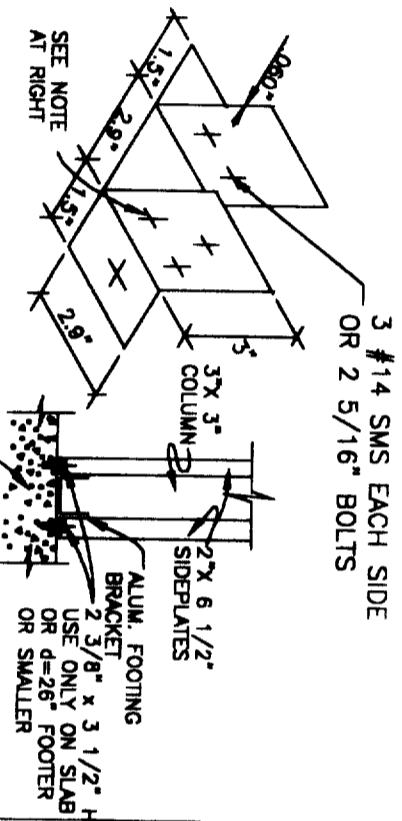


Bk ALTERNATE 2-2" X 6 1/2" HEADERS

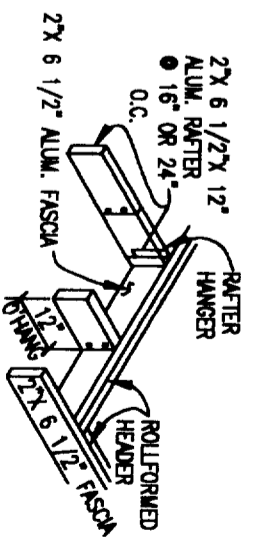
ALTERNATE 2-2" X 6 1/2" HEADERS IN PLACE OF 3" X 8" HEADER WITH POST & SIDEPLATES



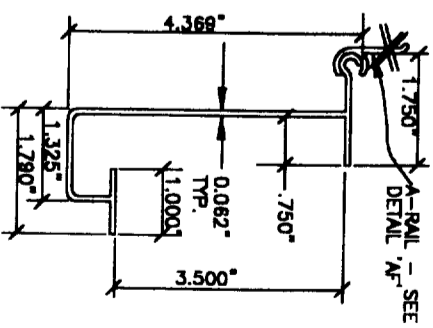
Bc ALUMINUM "H" BRACKET FOR CONNECTING COLUMN TO HEADER
(6063-T6 ALUM. ALLOY)



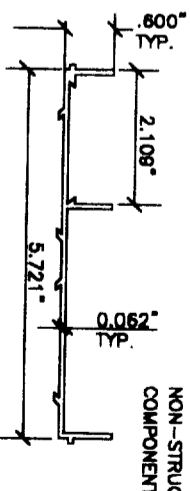
Bn ALUMINUM FOOTING BRACKET FOR CONNECTING COLUMN TO CONC. SLAB OR FOOTING
(6063-T6 ALUM. ALLOY)



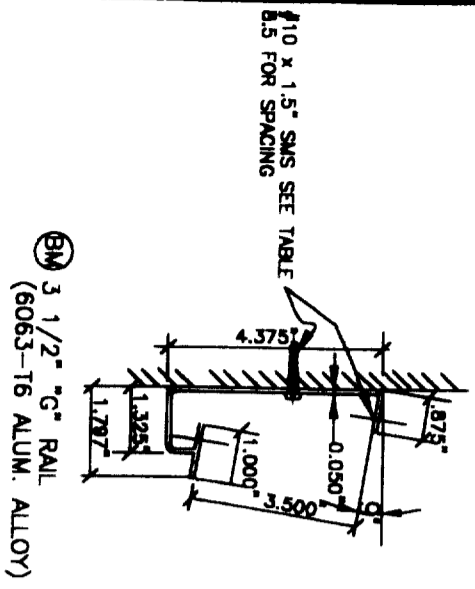
Bl ALTERNATE-DECORATIVE FASCIA TRIM



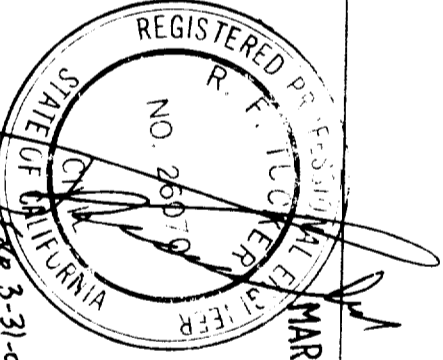
Bp 3 1/2" "J" HANGER
(6063-T6 ALUM. ALLOY)



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



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



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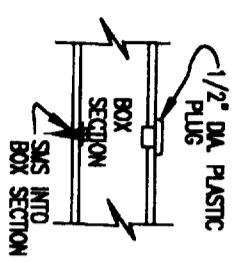
ICBO ES EVALUATION REPORT NO. ER-2621P

SCALE: NONE
DATE: 2/8/2000

DRAWN BY: KG
CHECKED BY: [Signature]
DATE: 2/8/2000

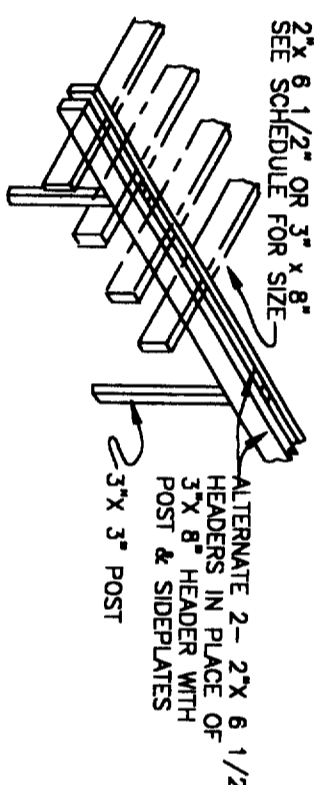
REVISION: [Blank]
DATE: [Blank]
REVISION: [Blank]

PROJECT: ICBO ES EVALUATION REPORT PARTS & CONNECTION DETAILS
DRAWING NO. 97CD09
SHEET 9 OF 9

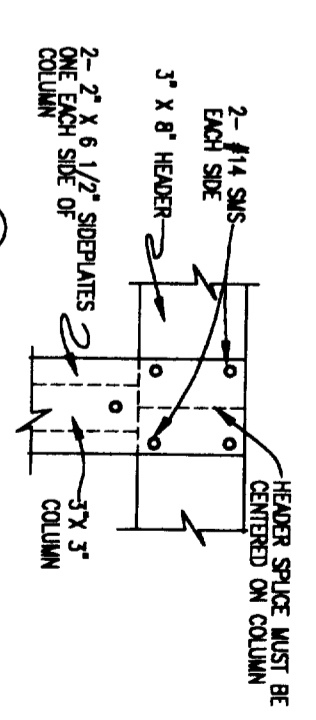


NOTE: USE PLASTIC PLUG TO FILL 1/2" DIA. ACCESS HOLES USED WHEN ATTACHING SMS INTO ANOTHER BOX SECTION IN WHICH THE SMS LENGTH WOULD EXCEED 2 1/2".

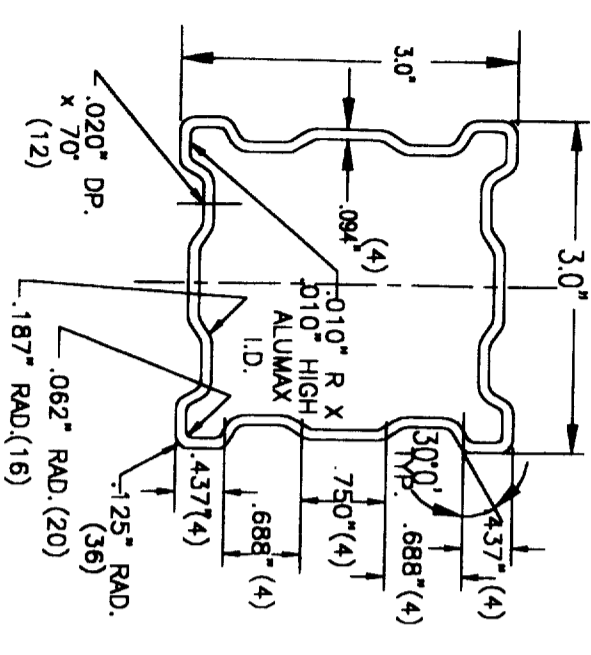
L10 PLASTIC PLUG DETAIL



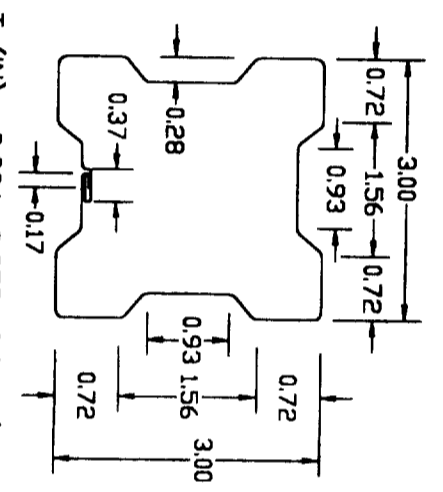
L11 ALTERNATE 2-2" X 6 1/2" HEADERS



L16 HEADER SPLICE DETAIL



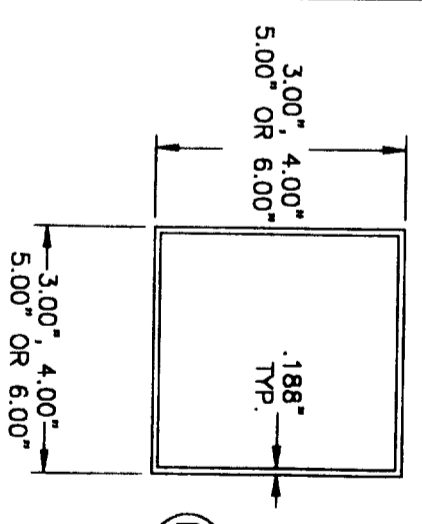
L31 FLUTED COLUMN
(3" ALUM. 6063-T6)
 $t_f = 0.062"$ UNLESS OTHERWISE NOTED



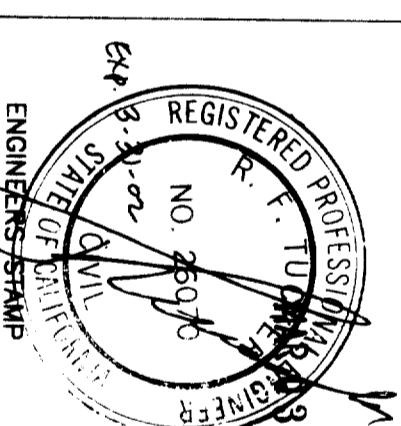
T (IN) = 0.024, 0.030, 0.040 (ALUM)
= 0.048 (STEEL)

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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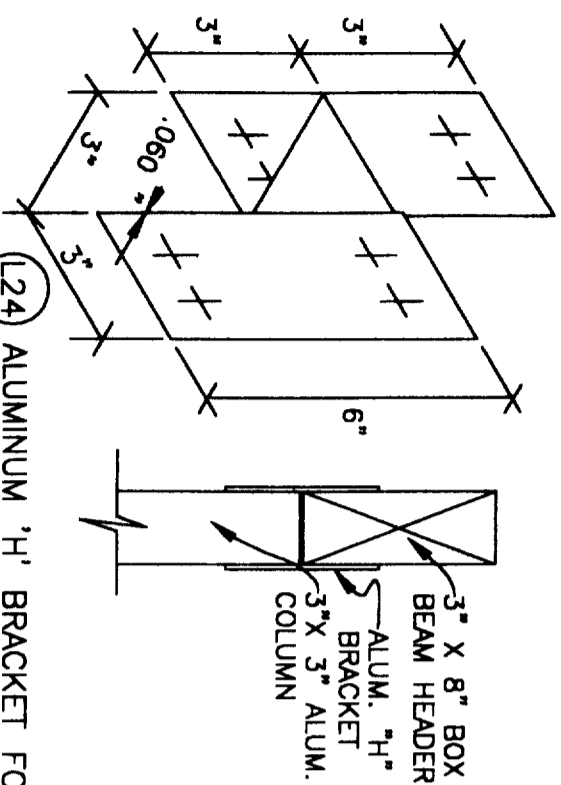
ICBO ES EVALUATION REPORT NO. ER-2621P

DATE	REVISION	DATE	REVISION

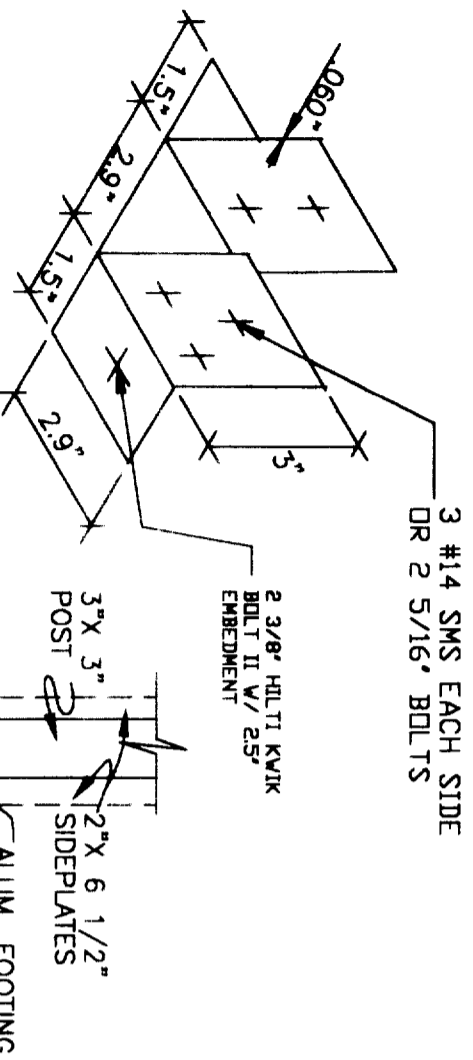
DRAWN BY: KG
SCALE: NONE
DATE: 2/8/2000

REVISIONS: 97/LT03

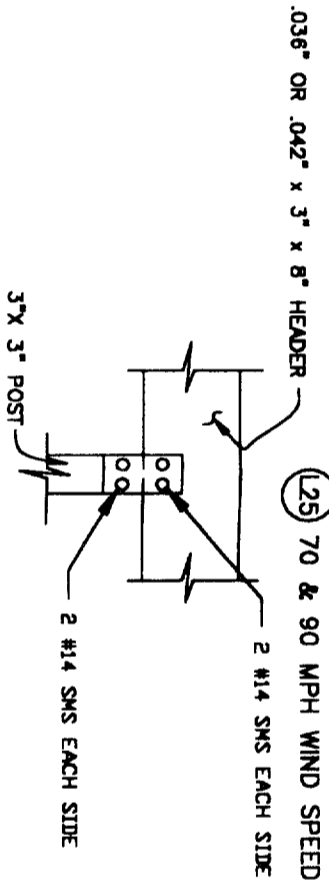
SHEET 2 OF 4



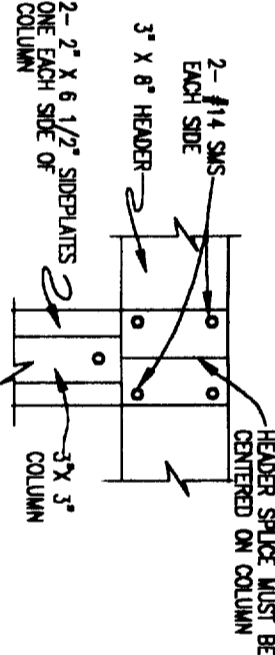
L24 ALUMINUM 'H' BRACKET FOR CONNECTING COLUMN TO HEADER (6063-T6 ALUM. ALLOY)



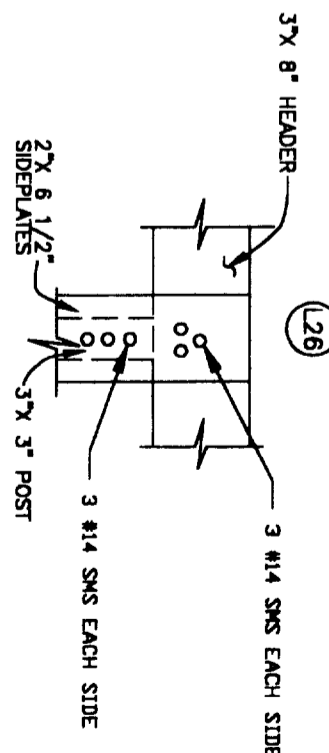
L27 ALUMINUM FOOTING BRACKET FOR CONNECTING POST TO CONC. SLAB OR FOOTING (6063-T6 ALUM. ALLOY)



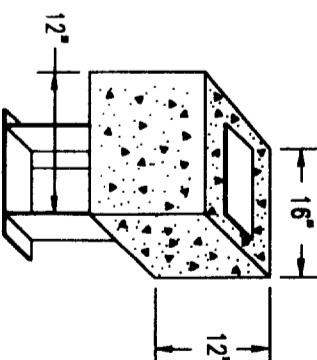
L25 70 & 90 MPH WIND SPEED COLUMN W/ 'H' BRACKET



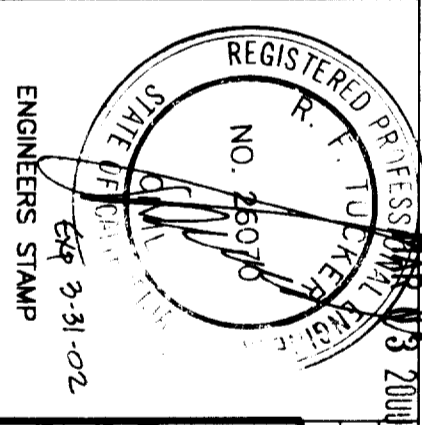
L16 HEADER SPICE DETAIL



L26 COLUMN W/ SIDEPLATES



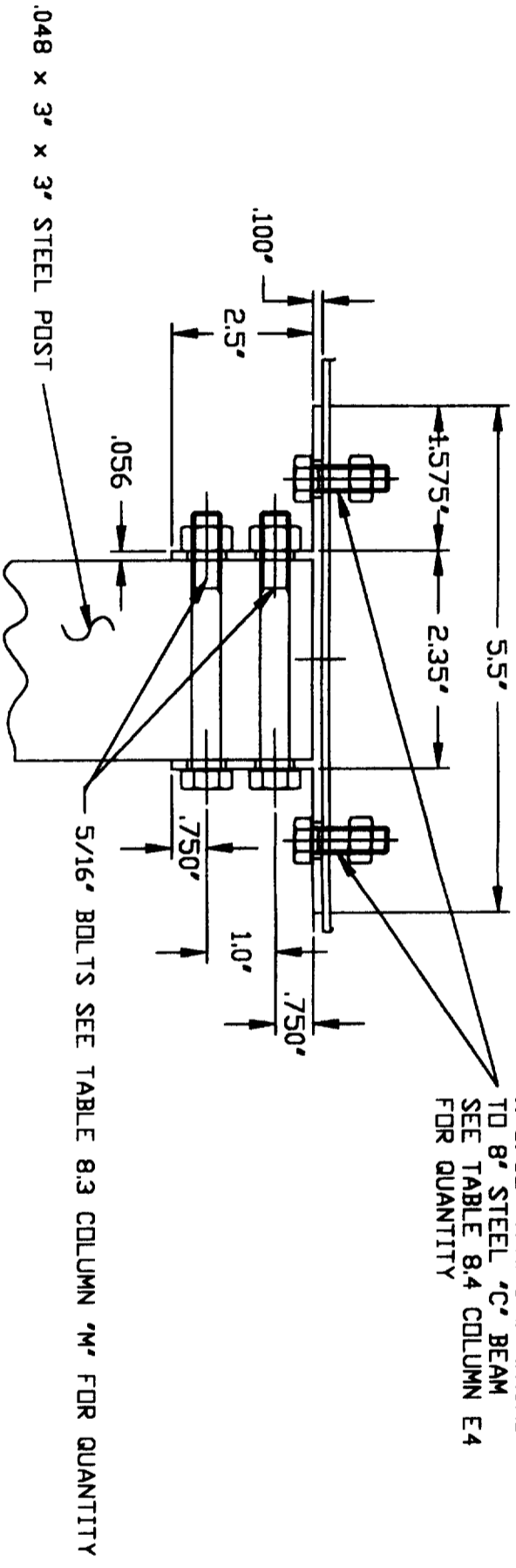
L23 SAFETY STAKE IN CONCRETE FOOTING (USE ONLY FOR ATTACHED LATTICE PATIO STRUCTURES)



DATE	REVISION	DATE	REVISION

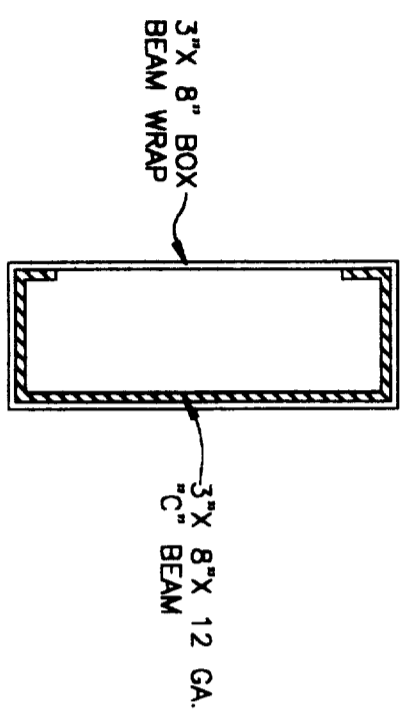
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DRAWING OR PART NUMBER: 97LT04
 SHEET: 4 OF 4

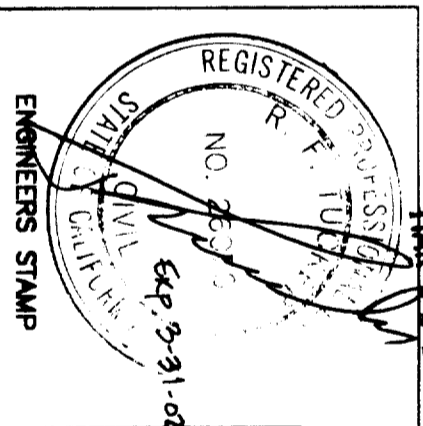


AN ALTERNATE 3" SQ. COLUMN CONNECTOR BRACKET
(6063-T6 ALUM. ALLOY)

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



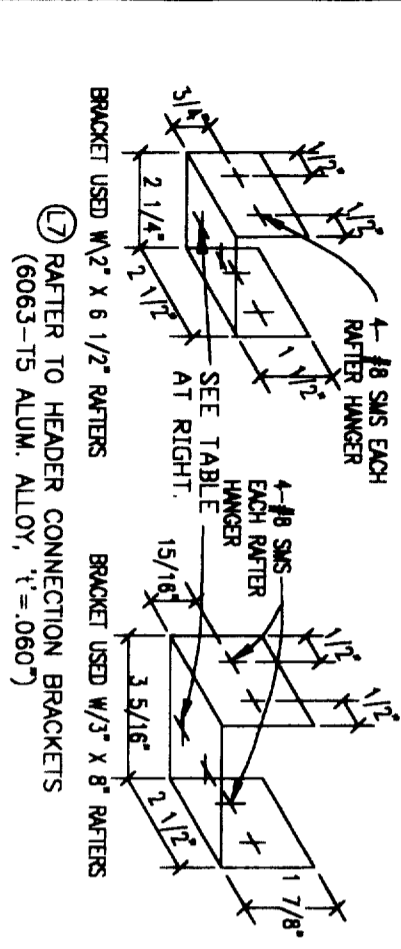
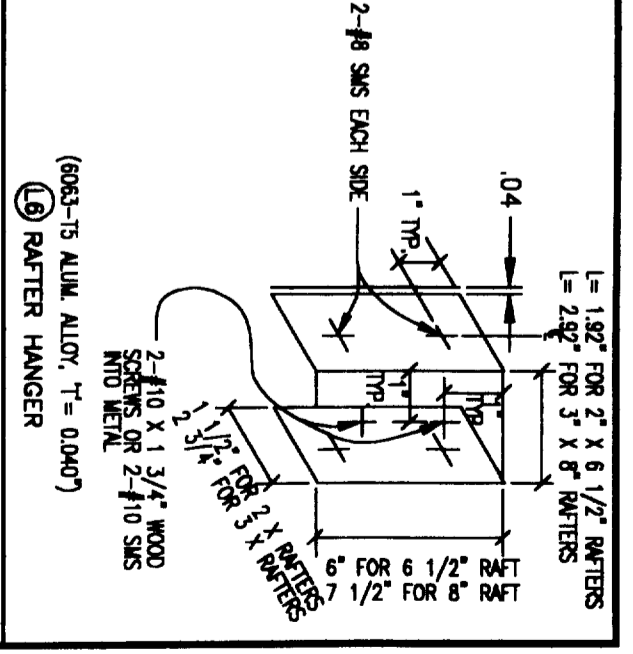
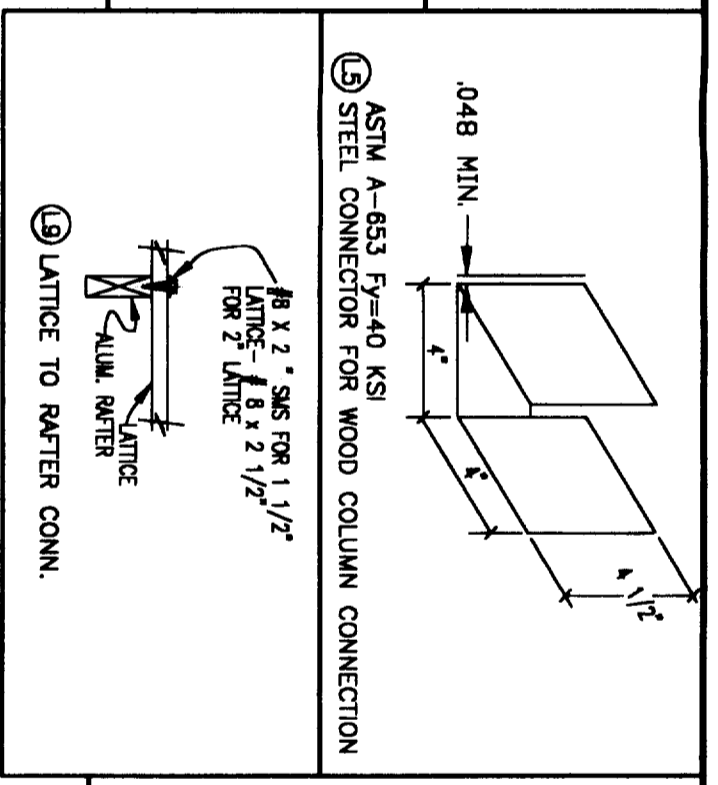
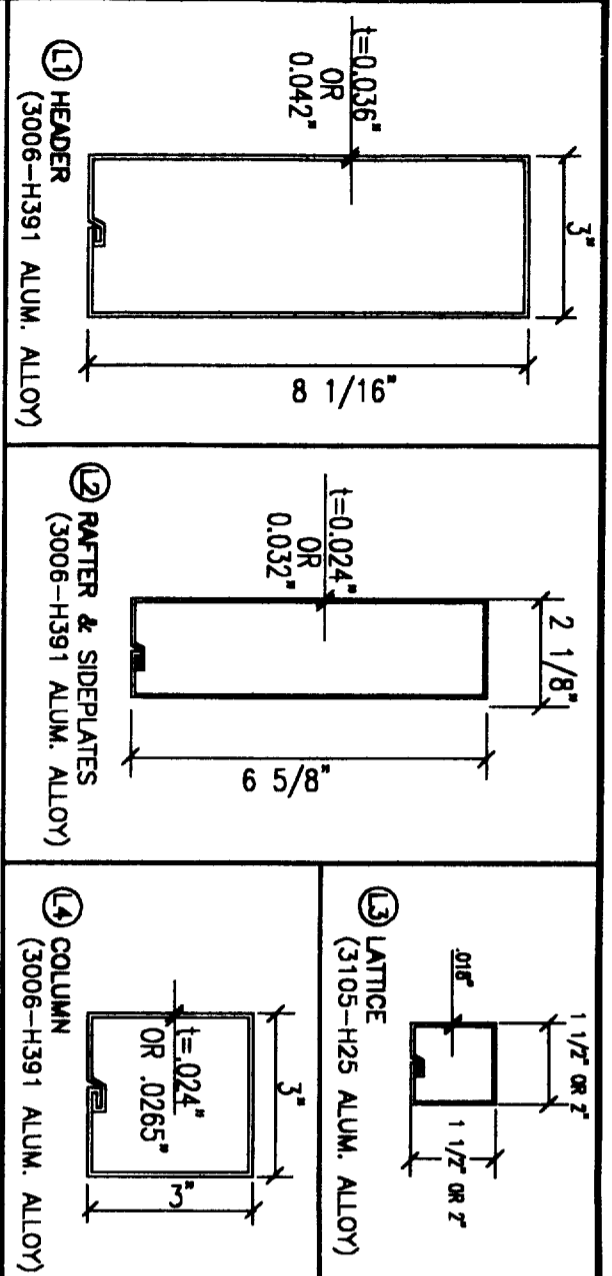
L23 3" X 12" X 12 GA. STL. 'C' BEAM
WRAP W/ 3" X 8" ALUM. BOX BEAM



DATE	REVISION	DATE	REVISION

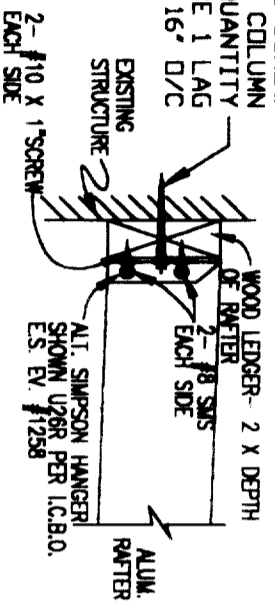
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 BUILDING PRODUCTS, INC. 1140 All Pro Drive
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DRAWING NO. 97L703
 DATE: 2/9/2000
 SCALE: NONE
 PROJECT: ICB0 ES EVALUATION REPORT NO. ER-2621P
 SHEET 3 OF 4

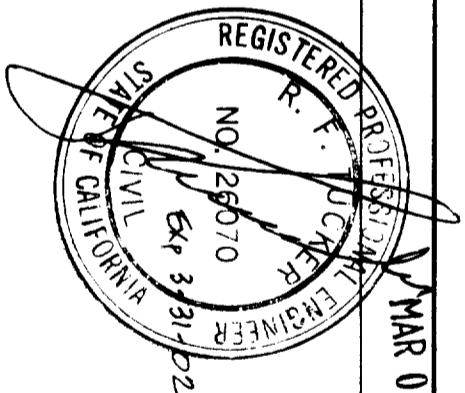


HEADER GAGE	HEADER	DETAIL	MAXIMUM WIND LOAD	MAX TRIB	FASTENING
.042	3' x 8'	L1	90 MPH PATID	6'	2-#8 SMS EACH BRKT. 3-#8 SMS EACH BRKT.
.036	3' x 8'	L1	90 MPH PATID	5'	2-#8 SMS EACH BRKT. 4-#8 SMS EACH BRKT.
.032	DBL 2 x 6	L11	90 MPH PATID	10'	3-#8 SMS EACH BRKT.
.094	8' STEEL C	L23	90 MPH 90 EXP C	22' 10'	2-#14 SMS EACH BRKT. 2-#14 SMS EACH BRKT.

1/4" x 4" LAG SCREW
SEE TABLE 8.5 COLUMN
ANCA FOR QUANTITY
ALL 10 PSF USE 1 LAG
PER STUD 16" O/C



(8) ALTERNATE RAFTER TO WALL CONN.

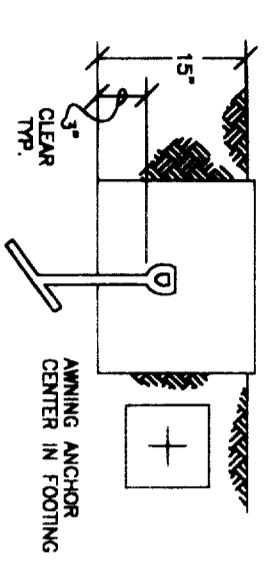
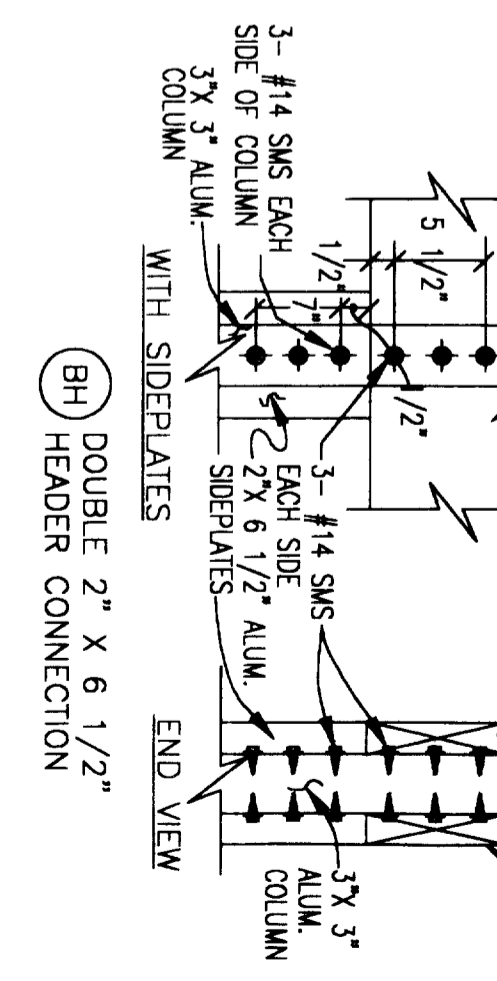
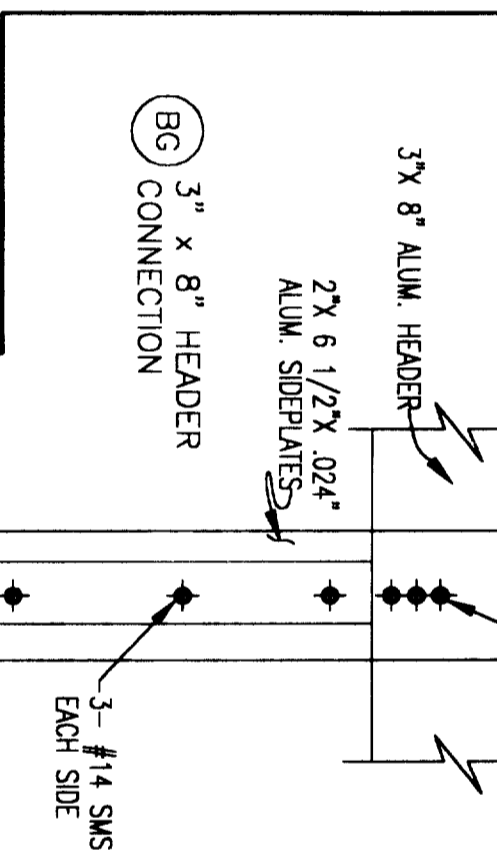
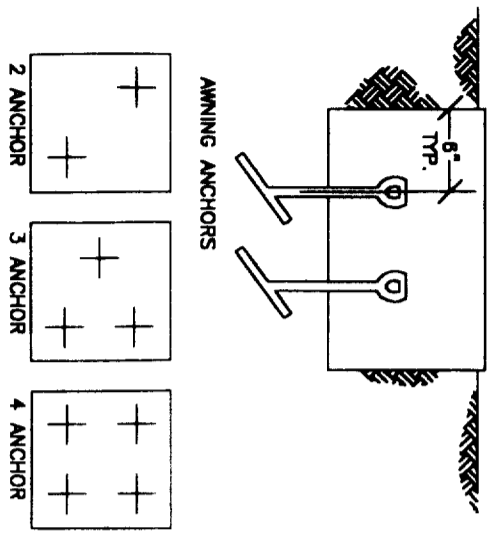
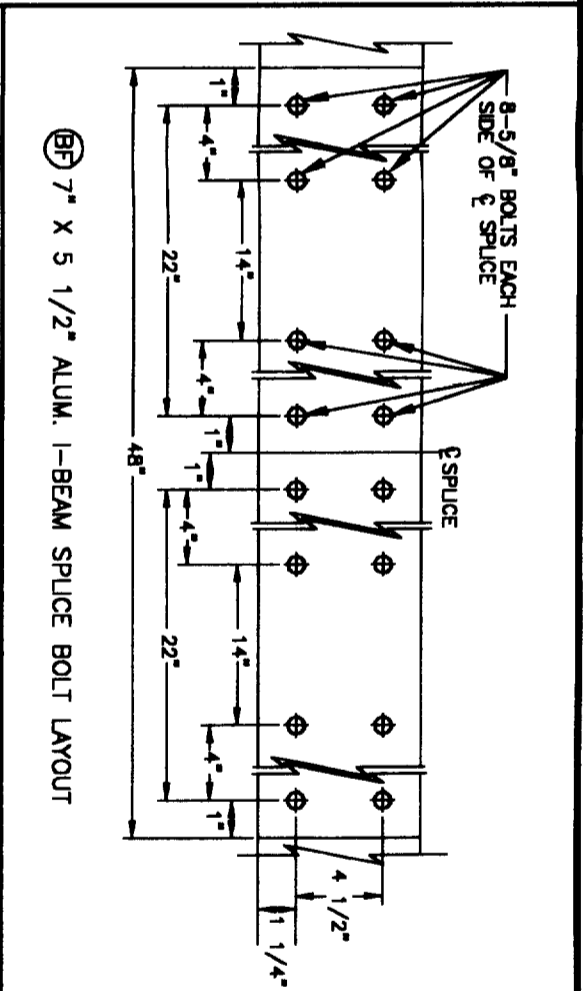
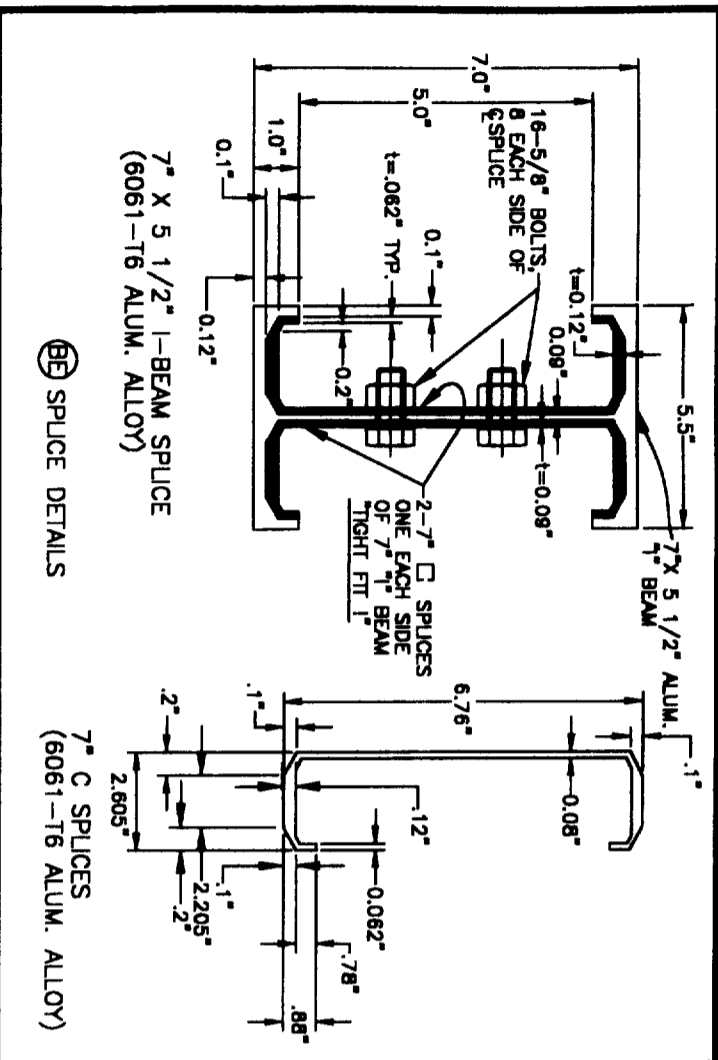


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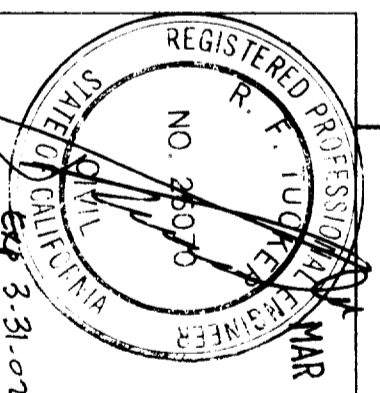
ICBO ES EVALUATION REPORT NO. ER-2621P

DATE	REVISION	DATE	REVISION

SCALE: NONE
DATE: 2/8/2000
DRAWING NUMBER: 97LT01
SHEET: 1 OF 4



FOOTING D ₁ (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



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DATE: 2/8/2000
DRAWING NO: 97CD08
SHEET: 8 OF 9

(B) ANCHOR DETAILS FOR ATTACHED STRUCTURES

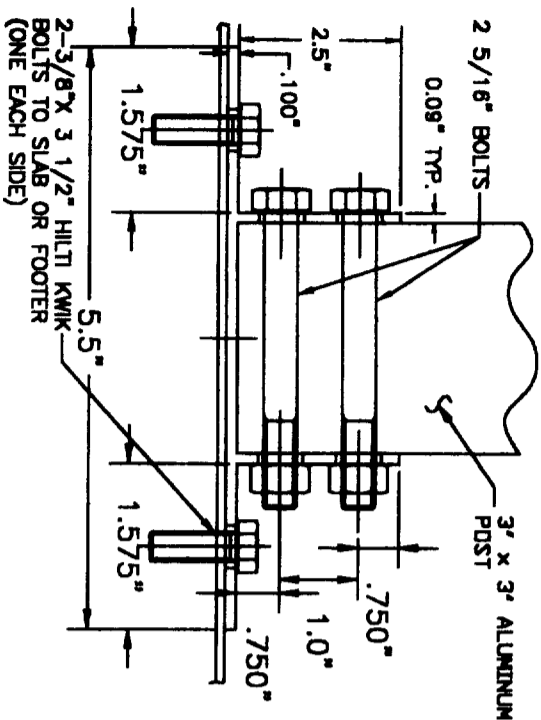
(BE) SPUCE DETAILS

(7\"/>

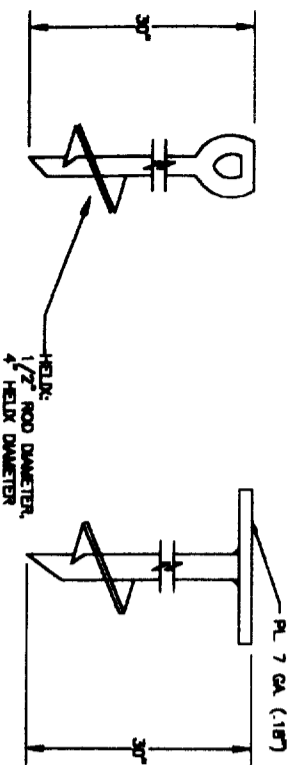
(BF) 7\"/>

(BG) 3\"/>

(BH) DOUBLE 2\"/>



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

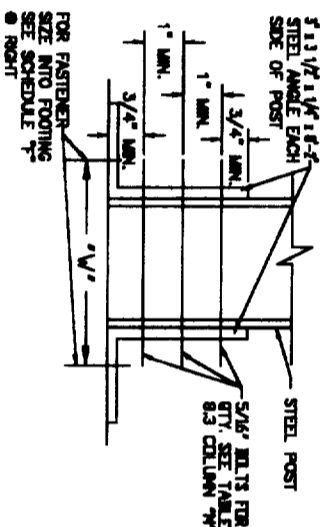


ALTERNATE TO CONCRETE SLAB ATTACHMENT

NOTES:

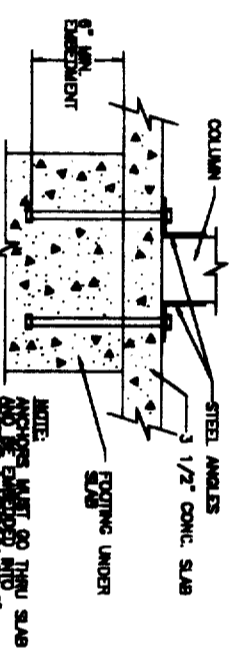
1. ALL PARTS TO BE HOT-DIP GALVANIZED OR ELECTROPLATED ZINC. MAY BE USED IN LIEU OF ATTACHING TO CONCRETE SLAB.
2. FABRICATION OF AWNING ANCHORS AND SAFETY STAKES IS BEYOND THE SCOPE OF THIS REPORT. FABRICATION DETAILS AND QUALITY CONTROL PROGRAM MUST BE SUBMITTED TO BUILDING OFFICIAL FOR APPROVAL.
3. 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

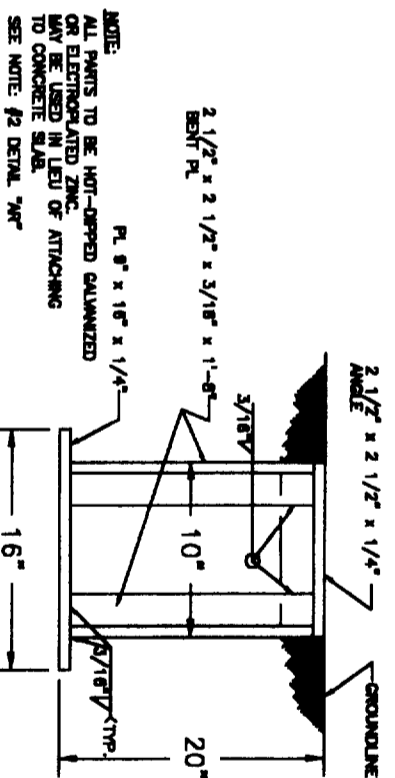


REQUIRED "W" FASTENER SIZE	MINIMUM "W" (WIDTH)
1/4"	3"
3/8"	4 1/2"
1/2"	6"
5/8"	7 1/2"
3/4"	8"

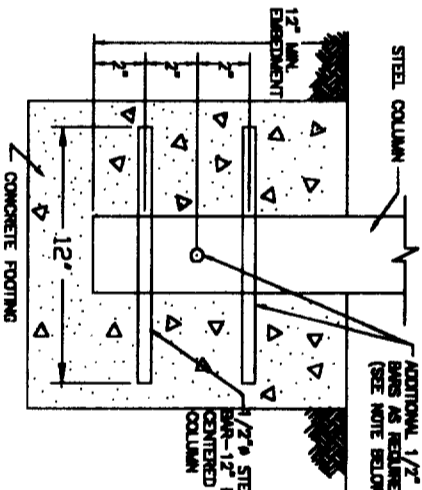
AS ATTACHED STRUCTURE COLUMN TO FOOTING CONNECTION DETAIL "d" = 18" TO 32" HILT FASTENER ALTERNATE



AM COLUMN CONNECTION DETAIL FOR SLAB & FOOTING ATTACHMENT



AP SAFETY STAKE (ALTERNATE TO CONCRETE SLAB ATTACHMENT)



AM ALTERNATE PRE-STEANDING STRUCTURE COLUMN TO FOOTING CONNECTION DETAIL

FOOTING SIZE (INCHES)	HILT FASTENER SIZE (OR EQUIV.)	CONNECTION TO COLUMN TUBE	REQUIRED TENSION FOR ANCHOR BOLTS
20"	2-1/4" x 2" d	1-5/16" BOLT	430k
22"	2-3/8" x 2 1/2" d	2-5/16" BOLTS	590k
24"	2-3/8" x 3 1/2" d	2-3/8" BOLTS	650k
26"	2-1/2" x 3 1/2" d	3-5/16" BOLTS	790k
28"	3-1/2" x 3 1/2" d	3-5/16" BOLTS	1330k
30"	3-1/2" x 4" d	3-5/16" BOLTS	1330k
32"	2-5/8" x 4" d	3-5/16" BOLTS	1670k
34"	3-5/8" x 4" d	3-5/16" BOLTS	2080k
36"	3-5/8" x 4" d	3-5/16" BOLTS	N/A
38"	3-5/8" x 4" d	3-5/16" BOLTS	N/A
40"	3-5/8" x 4" d	3-5/16" BOLTS	N/A
42"	3-5/8" x 4" d	3-5/16" BOLTS	N/A

AV FOOTING SCHEDULE

*"d" SIZE IN ANCHOR BOLT OR HILT FASTENER SIZES INDICATES DEPTH OF EMBEDMENT. EXAMPLE: 2 1/2" d INDICATES 2 1/2" EMBEDMENT OF ANCHOR OR EQUIV. TO HILT FASTENERS. ALTERNATE MUST BE ICBO ES. APPROVED FOR ANCHOR BOLT VALUES SHOWN. HILT INDICATES HILT KB-II ANCHOR BOLTS PER ICBO E.S. EV #4627.

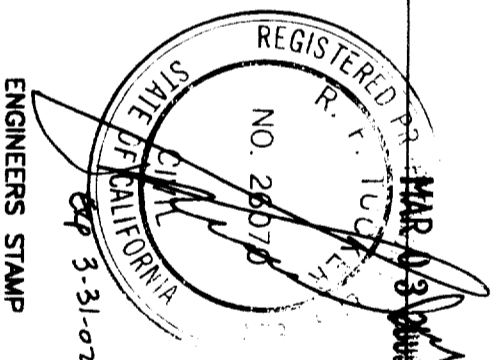
DATE	REVISION	DATE	REVISION



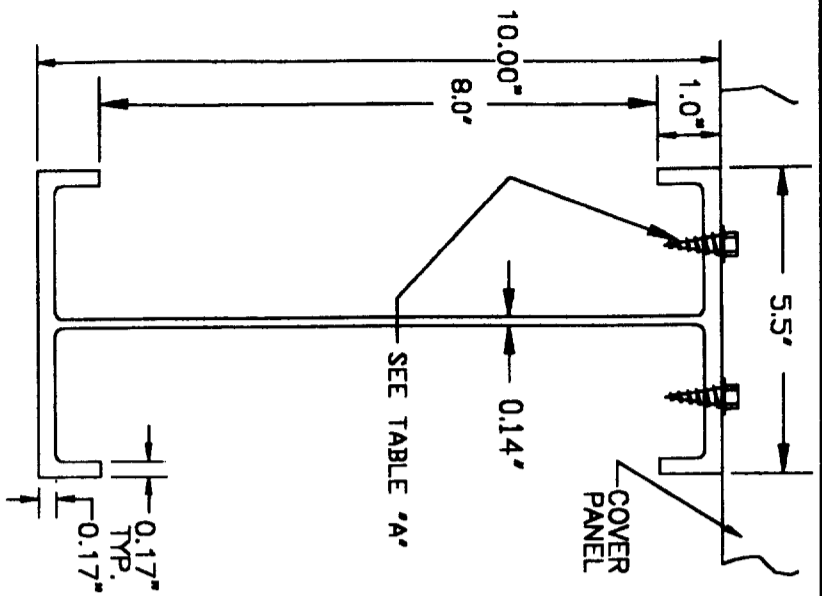
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ICBO ES EVALUATION REPORT NO. ER-2621P
DRAWING OR PART COMPONENT PARTS & CONNECTION DETAILS

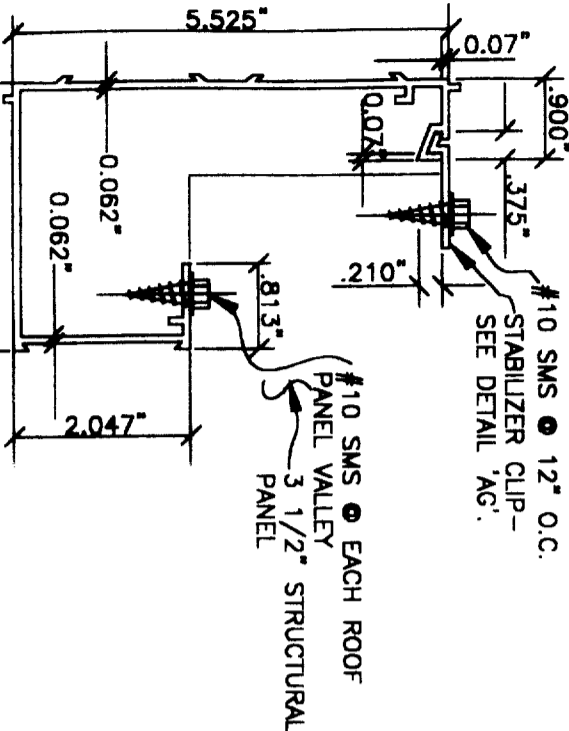
DATE: 2/8/2000
DRAWING NUMBER: 97CD06
SHEET: 6 OF 9



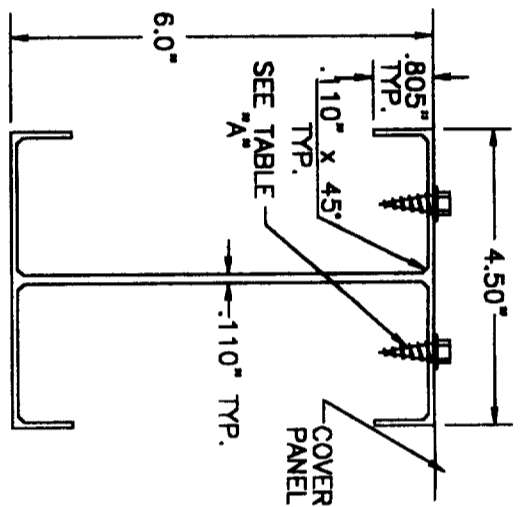
ENGINEERS STAMP



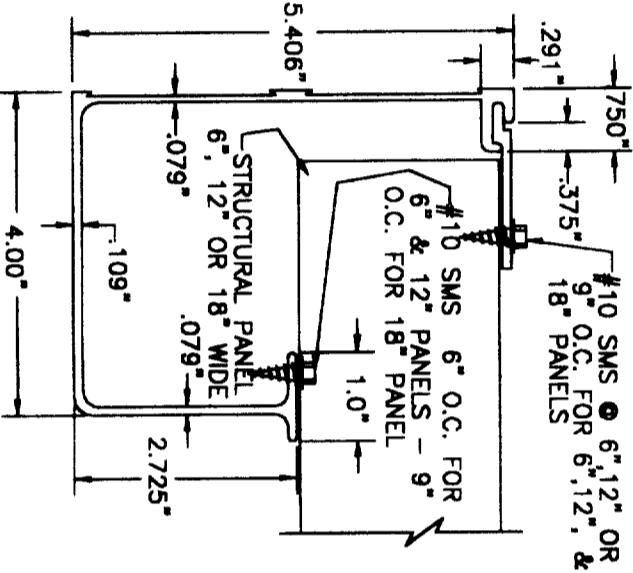
(Y) 10" X 5 1/2" W BEAM HEADER
(6061-T6 ALUM. ALLOY)



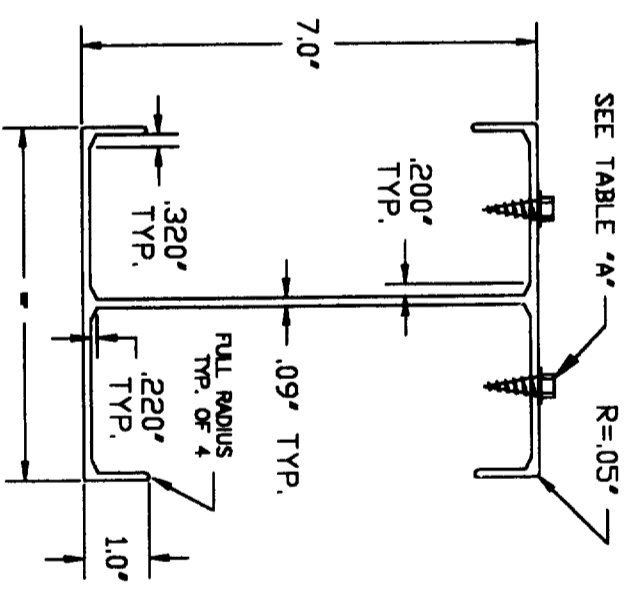
(AC) 5 1/2" EXTRUDED HEADER
(6061-T6 ALUM. ALLOY)



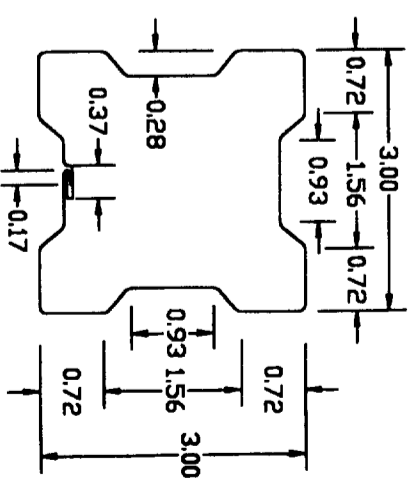
(Z) 6" W BEAM HEADER
(6061-T6 ALUM. ALLOY)



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



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

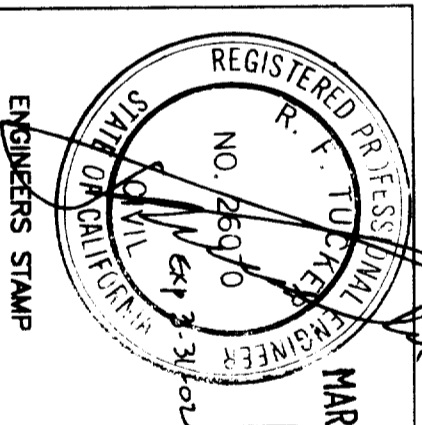


(AB) 3" X 3" HEADER (STEEL)
(A-653 Fy=40 KSI STEEL)

FASTENERS REQUIRED FOR PANEL TO HEADER CONNECTIONS

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

(AE) 6' PANEL USE 50% LESS SCREWS
18' PANEL USE 50% MORE SCREWS



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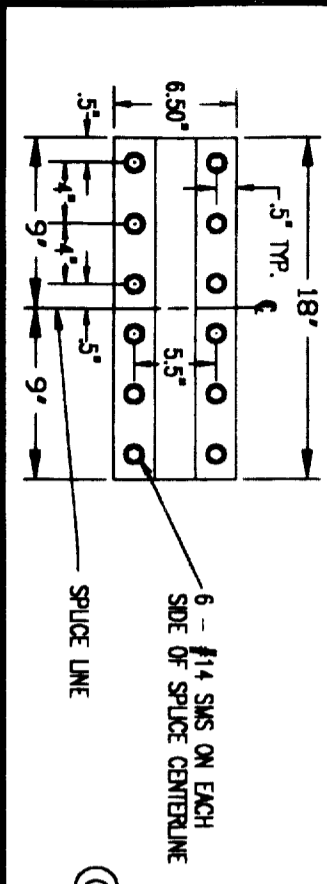
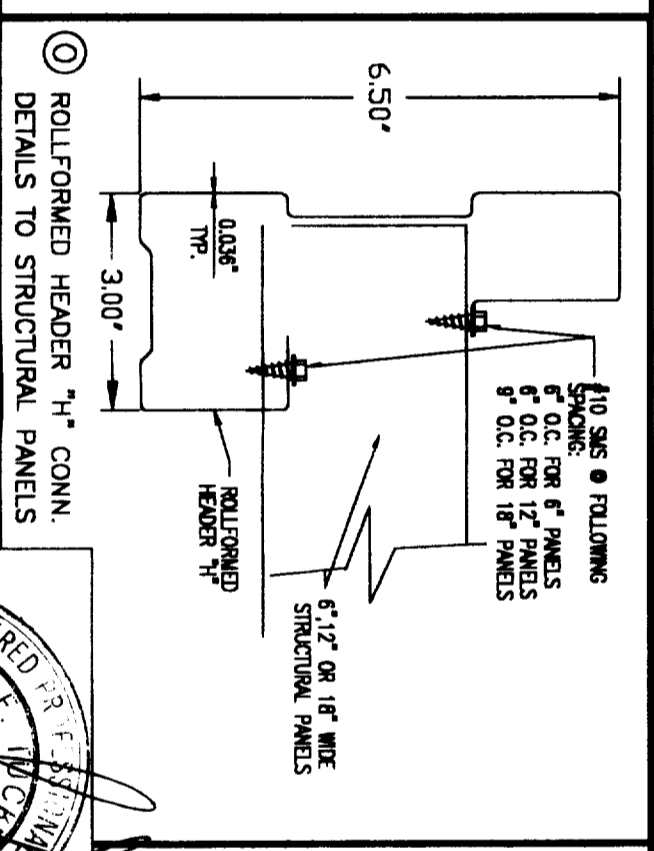
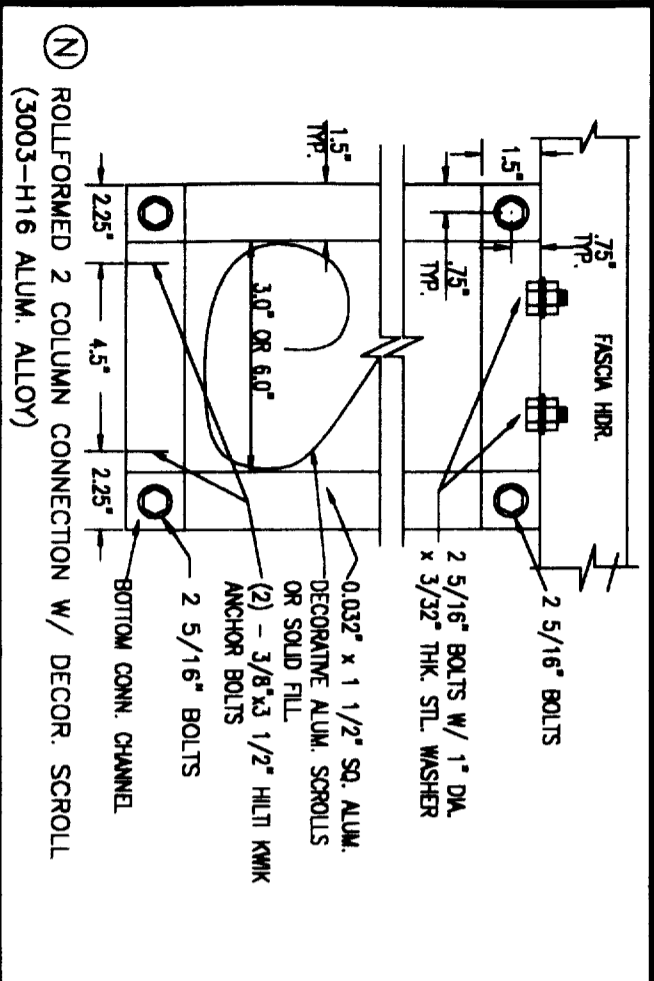
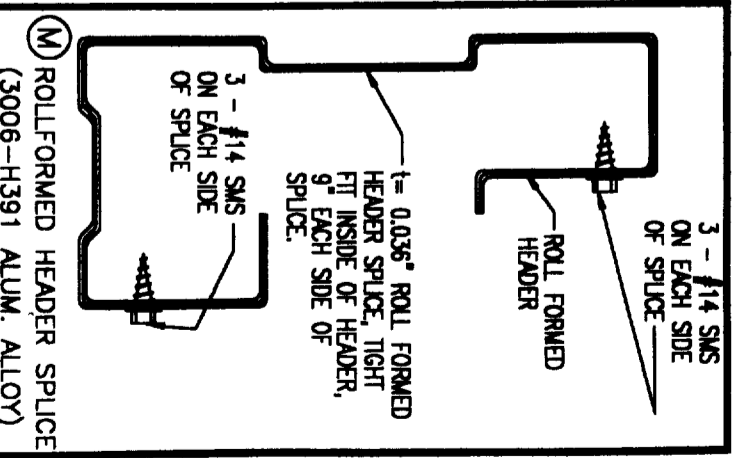
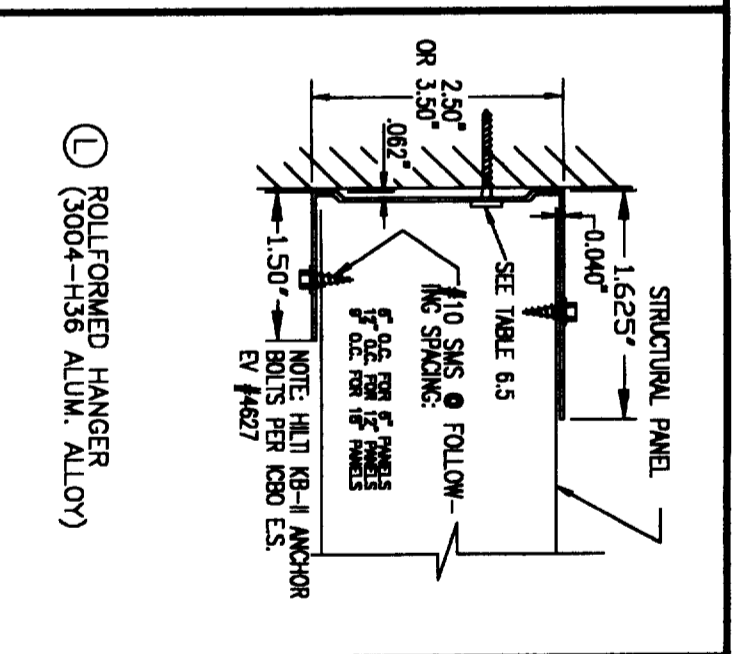
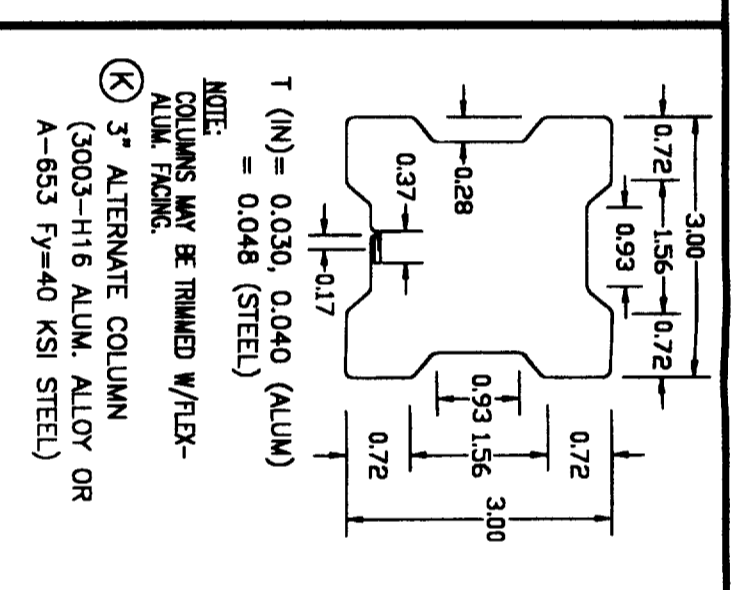
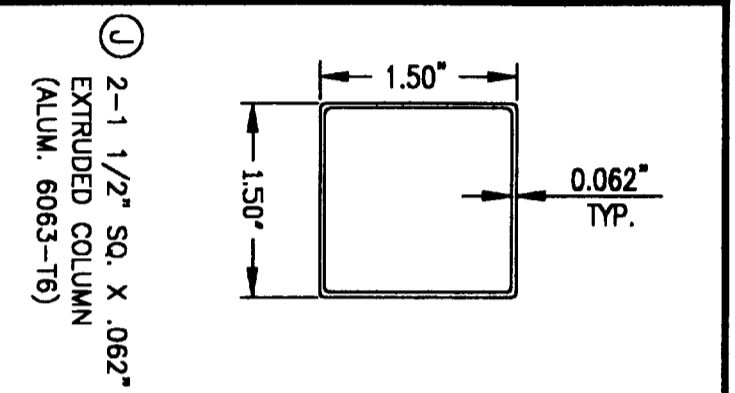
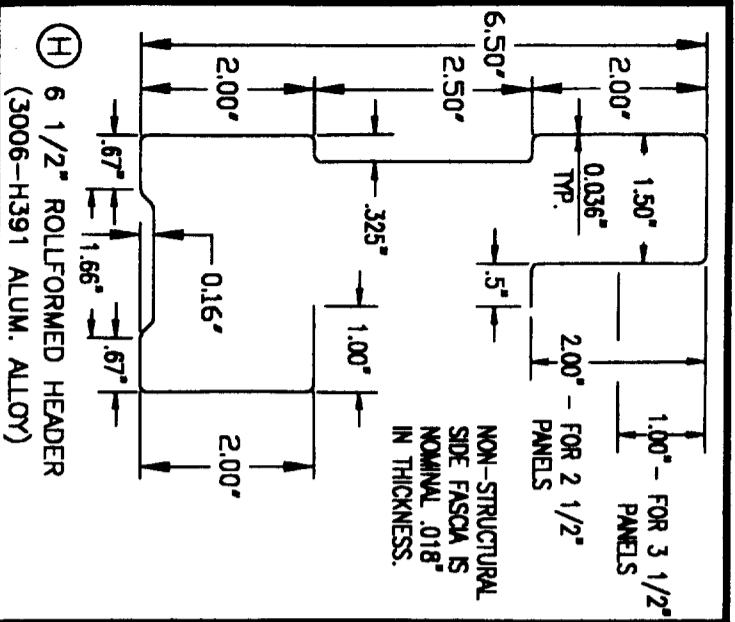
ICBO ES EVALUATION REPORT NO. ER-2621P

DATE: 03/2000

SCALE: NONE

DATE: 2/9/2000

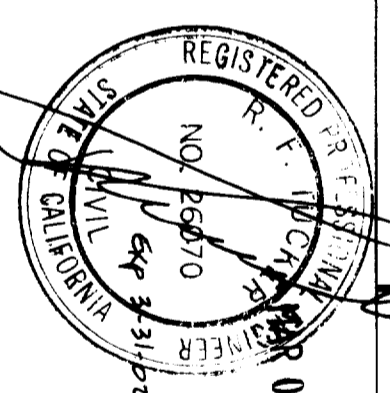
SHEET 4 OF 9



(N) ROLLED 2 COLUMN CONNECTION W/ DECOR. SCROLL
 (3003-H16 ALUM. ALLOY)

(O) ROLLED HEADER "H" CONN. DETAILS TO STRUCTURAL PANELS

(P) ROLLED SPICE CONNECTION DETAILS
 (3006-H391 ALUM. ALLOY)



DATE	REVISION	DATE	REVISION
2/8/2000			

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

Amerimax BUILDING PRODUCTS, INC.
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IC80 ES EVALUATION REPORT NO. ER-2821P
 DRAWING OR PART NAME: COMPONENT PARTS & CONNECTION DETAILS
 DRAWING NUMBER: 97CD02
 SHEET: 2 OF 9

4.0 FREESTANDING AND ATTACHED LATTICE PATIO STRUCTURES

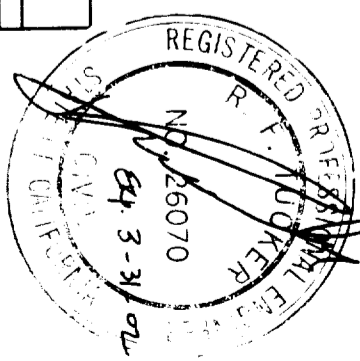
LIVE LOAD WIDTH	TRIBES	MAXIMUM COLUMN SPACING		3" x 8" STEEL C BEAM		MAX. COLUMN SPACING	CONS. FOOTING SIZE	ATTACHED	MIN. COLUMN TYPE
		FOR ATTACHED LATTICE ON SLAB	HEADER MUST BE ABLE TO SPAN USING COLUMN A	FREE FTR	FTR				
10	4	21'-1"	22'-0"	25'-7"	26'-3"	12'-3"	29	29	C
	5	16'-10"	17'-7"	20'-5"	21'-0"	11'-11"	29	29	C
	6	14'-1"	14'-8"	17'-0"	17'-6"	11'-7"	30	30	C
	7	12'-1"	12'-7"	14'-7"	15'-0"	11'-3"	30	30	C
	8	10'-7"	11'-0"	12'-9"	13'-1"	11'-0"	30	30	C
	9	9'-4"	9'-9"	10'-3"	10'-6"	10'-9"	30	30	C
	10	8'-5"	8'-10"	9'-4"	9'-9"	10'-9"	30	30	C
	11	7'-8"	8'-0"	8'-6"	8'-11"	10'-9"	30	30	C
	12	7'-0"	7'-4"	7'-10"	8'-1"	10'-9"	30	30	C
	13	6'-6"	6'-9"	7'-4"	7'-7"	10'-9"	30	30	C
	14	6'-0"	6'-4"	7-0"	7-4"	10'-9"	30	30	C
	15	5'-7"	5'-10"	6-10"	6-7"	10'-9"	30	30	C
	16	5'-3"	5-6"	6-0"	6-2"	10'-9"	30	30	C
	17	5-0"	5-2"	5-8"	5-5"	10'-9"	30	30	C
	18	4-8"	4-11"	5-5"	5-0"	10'-9"	30	30	C
	19			5-1"	4-7"	10'-9"	30	30	C
	20			4-10"	4-6"	10'-9"	30	30	C
	21			4-8"	4-7"	10'-9"	30	30	C
	22			4-8"	4-7"	10'-9"	30	30	C

LIVE LOAD WIDTH	TRIBES	MAXIMUM COLUMN SPACING		3" x 8" STEEL C BEAM		MAX. COLUMN SPACING	CONS. FOOTING SIZE	ATTACHED	MIN. COLUMN TYPE
		FOR ATTACHED LATTICE ON SLAB	HEADER MUST BE ABLE TO SPAN USING COLUMN A	FREE FTR	FTR				
10	4	5'-0"	5'-2"	6'-0"	6'-2"	12'-3"	29	29	C
	5	4-8"	4-11"	5-8"	5-10"	11'-11"	29	29	C
	6			5-5"	5-6"	11'-7"	30	30	C
	7			5-1"	5-3"	11'-3"	30	30	C
	8			4-10"	4-9"	11'-0"	30	30	C
	9			4-8"	4-9"	10'-9"	30	30	C
	10			4-8"	4-9"	10'-9"	30	30	C
	11			4-11"	4-9"	10'-9"	30	30	C
	12			4-7"	4-7"	10'-9"	30	30	C
	13			4-10"	4-7"	10'-9"	30	30	C
	14			4-8"	4-7"	10'-9"	30	30	C
	15			4-10"	4-7"	10'-9"	30	30	C
	16			4-8"	4-7"	10'-9"	30	30	C
	17			4-8"	4-7"	10'-9"	30	30	C
	18			4-8"	4-7"	10'-9"	30	30	C
	19			4-8"	4-7"	10'-9"	30	30	C
	20			4-8"	4-7"	10'-9"	30	30	C
	21			4-8"	4-7"	10'-9"	30	30	C
	22			4-8"	4-7"	10'-9"	30	30	C

LIVE LOAD	WIND SPEED	CLEARSPANS FOR 3 X 8 RAFTER		CLEARSPANS FOR 2 X 8 RAFTER	
		24" O.C.	OVER HANG	24" O.C.	OVER HANG
10	4	0.024	23'-4"	0.024	13'-7"
	5	0.026	17'-9"	0.024	8'-9"
	6	0.026	15'-7"	0.024	6'-0"
	7	0.026	14'-9"	0.024	5'-11"
	8	0.026	14'-11"	0.024	4'-8"
	9	0.026	14'-11"	0.024	4'-8"
	10	0.026	14'-11"	0.024	4'-8"

LIVE LOAD	WIND SPEED	CLEARSPANS FOR 3 X 8 RAFTER		CLEARSPANS FOR 2 X 8 RAFTER	
		24" O.C.	OVER HANG	24" O.C.	OVER HANG
10	4	0.024	23'-4"	0.024	13'-7"
	5	0.026	17'-9"	0.024	8'-9"
	6	0.026	15'-7"	0.024	6'-0"
	7	0.026	14'-9"	0.024	5'-11"
	8	0.026	14'-11"	0.024	4'-8"
	9	0.026	14'-11"	0.024	4'-8"
	10	0.026	14'-11"	0.024	4'-8"

LIVE LOAD	WIND SPEED	CLEARSPANS FOR 3 X 8 RAFTER		CLEARSPANS FOR 2 X 8 RAFTER	
		24" O.C.	OVER HANG	24" O.C.	OVER HANG
10	4	0.024	23'-4"	0.024	13'-7"
	5	0.026	17'-9"	0.024	8'-9"
	6	0.026	15'-7"	0.024	6'-0"
	7	0.026	14'-9"	0.024	5'-11"
	8	0.026	14'-11"	0.024	4'-8"
	9	0.026	14'-11"	0.024	4'-8"
	10	0.026	14'-11"	0.024	4'-8"



MAR 03 2000



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

CSDE'S EVALUATION REPORT ER-2621P
HEADER SPANS, COLUMN SPACING,
FOOTER SIZE AND COLUMN TYPE FOR
FREESTANDING AND ATTACHED
LATTICE PATIO STRUCTURES
DATE: 2/8/2000

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

COLUMN	NOTES
E	8'-7" MAX COLUMN LENGTH
F	11" MAX COLUMN LENGTH
G	12" MAX COLUMN LENGTH
H	12" MAX COLUMN LENGTH

COL	COLUMN SCHEDULE	MAX COLUMN HEIGHT
A	FOR ATTACHED LATTICE PATIO STRUCTURES	11'-6"
B	0.024 x 3 SQUARE ALUM COLUMN	8'-0"
C	0.027 x 3 SQUARE ALUM COLUMN	11'-4"
D	0.040 x 3 COVERLEAF COLUMN	12'-0"
E	FLUTED COLUMN ALUM 0.082"	12'-0"
F	3" COVERLEAF STEEL 0.048"	12'-0"
G	SQUARE STEEL COLUMN	12'-0"
H	SQUARE STEEL COLUMN	12'-0"
I	SQUARE STEEL COLUMN	12'-0"
J	SQUARE STEEL COLUMN	12'-0"

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

TABLE 4.1

TABLE 4.2

TABLE 4.3

TABLE 4.4

TABLE 4.5

TABLE 4.6

TABLE 4.7

TABLE 4.8

TABLE 4.9

TABLE 4.10

TABLE 4.11

TABLE 4.12

TABLE 4.13

TABLE 4.14

TABLE 4.15

TABLE 4.16

TABLE 4.17

TABLE 4.18

TABLE 4.19

TABLE 4.20

TABLE 4.21

TABLE 4.22

TABLE 4.23

TABLE 4.24

TABLE 4.25

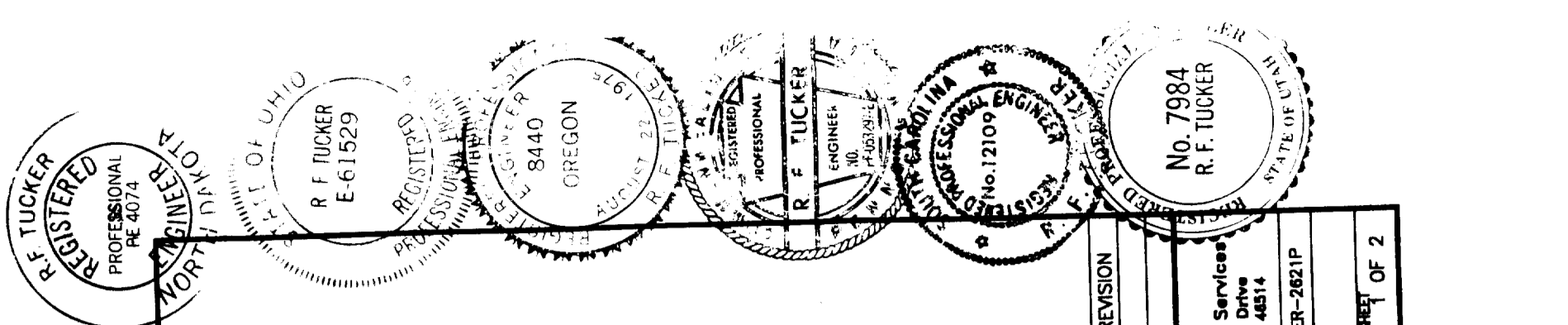
TABLE 4.26

TABLE 4.27

TABLE 4.28

TABLE 4.29

TABLE 4.30



DESIGN IN ACCORDANCE WITH THE UNIFORM BUILDING CODE 1997 EDITION.

- ALUMINUM 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 0.4:1.2 > SLOPE < 2:12

Speed	Height Zone	Unenclosed	Enclosed	Simple Span Areas	Eaves and Overhangs	Unenclosed	Enclosed
70	Less than 10'	7.5	7.5	10.16	10.16	10.16	21.87
90	Less than 10'	11.3	11.3	16.76	16.76	16.76	36.11
70	Less than 12'	10	10	17.36	17.36	17.36	37.40
90	Less than 12'	15	15	28.66	28.66	28.66	61.73

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
 REGISTERED PROFESSIONAL ENGINEER
 No. 032085
 STATE OF MINNESOTA

DESIGN LATERAL/UPLIFT WIND PRESSURE (psf)

Design Lateral/Uplift Wind Pressure (psf)	Eaves and Overhangs	Unenclosed	Enclosed
7.5	7.5	10.65	10.65
11.3	11.3	17.58	17.58
10	10	18.05	18.05
15	15	29.80	29.80

DESIGN UPLIFT WIND PRESSURE (psf)

Design Uplift Wind Pressure (psf)	Eaves and Overhangs	Unenclosed	Enclosed
10.16	10.16	10.65	10.65
16.76	16.76	17.58	17.58
17.36	17.36	18.05	18.05
28.66	28.66	29.80	29.80

DESIGN WIND PRESSURE (psf)

Design Wind Pressure (psf)	Exposure B	Exposure C
70 mph	90 mph	90 mph
10.2	16.8	17.4
10.0	15.0	10.0
10.0	10.0	16.05

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 Engineering Services
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 Elkhart, IN 46514

DATE: 2/8/2000
 DRAWING OR PART NAME: GENERAL NOTES
 SHEET 1 OF 2