

CITY OF SACRAMENTO
1231 I Street, Sacramento, CA 95814

Permit No: 0105230
Insp Area: 4

Site Address: 161 MAIN AV SAC
Parcel No: 226-0050-028

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

CONTRACTOR
KELLEY CONSTRUCTION
3112 O ST
SUITE 9 95816

OWNER
EQUITABLE LIFE ASSURANCE SOCIETY
8950 CAL CENTER CR #200
SACRAMENTO CA 95826

ARCHITECT

Nature of Work: BUSTER QUAD FEE PER GENE C: INSTALLATION OF 69 SKYLIGHTS AND 27 SMOKE HATCHES IN EXISTING WAREHOUSE

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 B1 License Number 308829 Date 5-9-2001 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 5-9-2001 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.

AK 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 COMPENSATION INS FUND Policy Number 1313735-00 Exp Date 07/01/2001

(This section need not be completed if the permit is for ~~\$100,000~~ PLANNING 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 5-9-2001 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.

APPLICATION FOR COMMERCIAL BUILDING PERMIT

CITY OF SACRAMENTO
DEVELOPMENT SERVICES DIVISION
PERMIT SERVICES SECTION

1231 I Street, Rm. 200
 Sacramento, CA 95814 (916) 264-7619 FAX 264-7046

ACTIVITY # 0105230	Insp. Area
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Applicant **MUST** complete ALL Unshaded areas

ADDRESS 161 MAIN AVE. Suite _____
 PARCEL # 226-0050-028

CONTACT Name <u>PAUL KELLEY</u> Street Address <u>312 O STREET, Suite 9</u> City/State/Zip <u>SACRAMENTO, CALIF. 95816</u> Phone <u>916-399-3999</u> FAX <u>916-320-4541</u> E-mail: _____	LICENSED CONTRACTOR Lic No. <u>308829</u> Name <u>KELLEY CONTRACTORS</u> Address <u>312 O STREET, Suite 9</u> City/State/Zip <u>SACRAMENTO</u> Phone <u>916-454-3889</u> FAX <u>916-320-4541</u> E-mail: _____
ARCHITECT/ENGINEER Name <u>NIELSEN & ASSOCIATES</u> Address <u>550 HAWK</u> City/State/Zip <u>SACRAMENTO, CALIF.</u> Phone <u>916-0553</u> FAX <u>916-8608</u> E-mail: _____	OWNER Name <u>Equipment Distributors</u> Address <u>600 N. 5th Street</u> City/State/Zip <u>SACRAMENTO, CALIF.</u> Phone <u>443-8260</u> FAX _____ E-mail: _____

→ Will permittee have any employees on the jobsite? No Yes → INSURANCE CO: State Fund
 → WORKER'S COMPENSATION POLICY # _____ EXPIRATION DATE: _____

NATURE OF WORK IN DETAIL: Install Skylights - Repair - Painting -
Paint Interior of Warehouse

OCCUPANT/TENANT: EQUIP DISTRIBUTORS VALUATION: \$ 25,000⁰⁰

FLOOD STATUS:				S.C.A.T.						
JOB DESCRIPTION		BLDG	SHELL	APT	TI ()	REM ()	SW	FIRE	ADD	OTH
INSPECTION DISCIPLINES		BLDG	MECH	PLUMB	ELEC		SITE		FIRE	
# Stories	1st fir Area	Total Area	Use Zone	Occp Group	Const type	Fire Req. Y/N		Fed Code	Vio. File	
						SPR	ALARM		[H]	[Quad]
B	L	P	M	E	F	S		D	PW	UTIL
13	13									

COMMENTS: _____

REGIONAL SANITATION FEES? Yes No HEALTH DEPARTMENT? Yes No
 WATER FLOW TEST FOR NEW BUILDINGS OR ADDITIONS? Provided Faxed

Date of Request: _____

By: _____

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

Project Address: 1161 Main Ave

Assessor's Parcel Number: 226-0050-028

Previous Use: exist. industrial bldg / exist. tenant

Description of Request/Proposed Use: add skylights to roof

Is This a Change of Use? NO

Prior Applications for Project Site(P#, Z#, DRPB#): P93-052 Zoning Designation: M-1-PUD

Comments: does not impact outside appearance or use of bldg in any way

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: Paul Reed 4/26/01

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

MICROFILM AFTER FINAL



**Skylight Additions to
WAREHOUSE
161 Main Ave
Sacramento, CA.**

Structural Calculations



William P. Larson



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.

ISSUED

MAY 09 2001

Sacramento Building Division

**POINT 2 Structural Engineers
Job No. 2001-043**

May 01

W



PROJECT

PROJECT NO.

CLIENT

ENGINEER

DATE

PAGE 2 of

STRUCTURAL DESIGN CRITERIA

1. Building Code 1997 Building Department and/or Regulatory Agencies City of Sacramento

2. Live Loads

a. Roof 20 psf Floor N/A Other

3. Structure Description Concrete Shear wall

4. Lateral Design

a. Seismic 3

b. Z = .3 (Zone 3), I = 1.00 , Na = 1.0 Ca = .36 V = 2.5CaI/R *W .164w

c. Wind

Basic Wind Speed = 80 MPH, $q_s =$ 16.4 Exposure c I = 1.00 $C_q =$ 1.3

Height	C_e	$p = C_e C_q q_s I$
0-15	1.06	P 1.06*1.3*16.4=22.6
15-20	1.13	24.1
20-25	1.19	25.4
25-30		
30-40		
40-60		
60-80		
80-100		



STRUCTURAL MATERIALS

WOOD

- a. Sawn Lumber: UBC Standard 23-1, Standard Grading Rules WWPA, Douglas Fir

Size Classification	Grade	Fb	Ft	Fv	Fcp	Fc	E x 10 ⁶
2" to 4" thick x 2" and wider	No. 1 & Better	1150	775	95	625	1500	1.8
	No. 1	1000	675	95	625	1450	1.7
	No. 2	875	575	95	625	1300	1.6
	Stud	675	450	95	625	825	1.4
Beams & Stringers	No. 1	1350	675	85	625	925	1.6
Posts & Timbers	No. 1	1200	825	85	625	1000	1.6

Beams & Stringers: Any piece of rectangular cross-section with a nominal thickness of 5" or more and width more than 2" greater than thickness.

Posts & Timbers: Any piece of square cross-section 5"x5" and larger with the nominal width not more than 2" greater than thickness.

- b. Sill Plates: AWPB
Pressure Treated Douglas Fir No. 1

- c. Structural Glued-Laminated Timber: UBS Standard 25-11 (AITC)

Grade	Fbt	Fbc	Ft	Fv	Fcp	Fc	E x 10 ⁶
24F-V4	2400	1200	1150	165	650	1650	1.8
24F-V8	2400	2400	1100	165	650	1650	1.8

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 Sacramento, CA. 95816-5757
 916-442-4842
 916-442-4848 Fax

Title :
 Dsgnr:
 Description :

Job #
 Date: 2:39PM, 8 MAY 01

Scope :

Rev: 510300
 User: KW-0804153, Ver 5.1.3, 22-Jun-1999, Win32
 (c) 1983-99 ENERCALC

Multi-Story Seismic Forces

Page 1
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Description WAREHOUSE

4

General Information

Calculations are designed to 1997 UBC Requirements

Seismic Zone 3
UBC 1630.2.3 Simplified Static Force Procedure
 Ground Floor Area 117,600.0 ft²
 Occupancy Category Standard Occupancy
 Seismic Importance Factor I = 1.00
Determine Na & Nv...
 Site Distance From Known Source >10km
 Seismic Source Type
 A : Faults Capable of Large Quakes & High Seismic Activity
 Seismic Coefficients Na = 1.00 Nv = 1.00
Soil Profile Type SD
 Seismic Coefficients Ca = 0.36 Cv = 0.54
Structural System...
 Bearing Wall System : 2a:Shear Walls, Concret
 2a:Shear Walls, Concrete
 Overstrength & Global Ductility Coefficient R = 4.500
 Seismic Force Amplification Factor Omega = 2.800
 Structure Height Limit 160.0 ft

Building period 0.217 sec
 Hn to Top Level 24.00 ft
 Ct : Construction Type Factor 0.020
 Max Element Story Shear R r_{max} 0.67
 p : Reliability Factor = $2 - 20/(r_{max} * \text{sq})$ 1.5000

Calculated Values : UBC 1630.2.1

Seismic Dead Load (Calculated From S
 Table on "Building Forces" Tab W = 2,900.0 k
 Calculated Base Shear $V = C_v I W / (RT) =$ 1,604.7 k
 Min. Base Shear $V = 0.11 C_a I W =$ 114.8 k
 Zone 4: Min. Base Shear $V = 0.8 Z N_v I R / W =$ 154.7 k
 Base Shear Max Limit $V = 2.5 C_a I W / R =$ 580.0 k

Final Calculated Values

Horiz Seismic Factor $E_h / W =$ 0.200
 Vertical Seismic Factor $E_v / D =$ 0.180
 V : Design Base Shear 580.0 k
 Ft : Top Force 0.000 k
 Eh * p 870.0 k
 Em = Omega * Eh 1,624.0 k

Building Seismic Forces

Level	Weight Wi k	Height Hi ft	Wi * Hi k-ft	Ft k	Fx Force @ Level k	Lateral Force k	Story Shear k	Story Moment k-ft
1	2,900.00	24.00	69,600.0		580.000	580.000		
Total Base Shear							580.000 k	
Base Overturning Moment							13,920.000 k-ft	

Diaphragm Forces

Level	Weight Wpx k	Lateral Force @ this Level k	Summation of Lateral Forces Above k-ft	Summation of Level Weights k	Max Req'd Force @ Level k	Diaphragm Force : Fpx k
1	2,900.00	580.00	580.00	2,900.000	1,044.000	580.000



BUILDING MASS

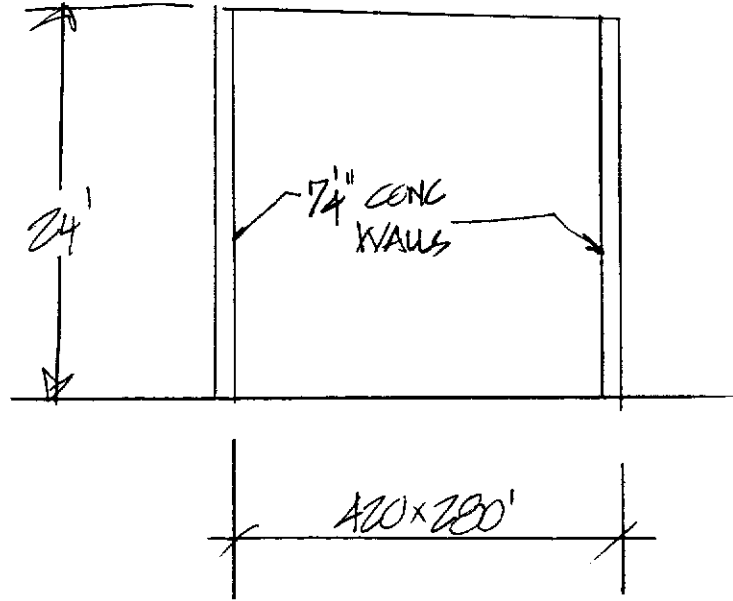
$$\text{ROOF } 420 \times 280 \times 11 \text{ psf} \\ = 1,293,600 \#$$

$$\text{WALLS: } 7.25 \frac{145}{12} = 88 \text{ psf}$$

$$(420 + 280) \times 2 \times (12') \times (88) \\ = 1,478,400 \#$$

$$= 2,772,000 = 2900 \text{ k} \quad \text{SEE PG 4}$$

$$88(12')(2) = 2100 \#/\text{FT} \text{ @ ROOF} \quad \text{SEE PG 6}$$



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Horizontal Plywood Diaphragm

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Description ROOF

General Information

Calculations are designed to 1997 NDS and 1997 UBC Requirements

North-South Length	420.00 ft	Diaphragm Weight	11.00 psf
Ease-West Length	280.00 ft	Seismic Factor	0.1430
North-South Chord	420.00 ft	Diaphragm is Blocked	
East-West Chord	280.00 ft	Blocking Direction	North-South

Boundary Loads Acting North & South

# 1	2,100.00 #/ft	from	0.000 ft	to	280.000 ft
# 2		from	0.000 ft	to	0.000 ft
# 3		from	0.000 ft	to	0.000 ft
# 4		from	0.000 ft	to	0.000 ft

Boundary Loads Acting East & West

# 1	2,100.00 #/ft	from	0.000 ft	to	420.000 ft
# 2		from	0.000 ft	to	0.000 ft
# 3		from	0.000 ft	to	0.000 ft
# 4		from	0.000 ft	to	0.000 ft

North & South Walls Design Data & Nailing Requirements

	Framing	Thickness in	Grade	Nail Size	Spacing in	Shear Value #/ft	Zone Distance ft
At North Wall	3x	1/2"	Grade C-D,C-C	10d	2,3,12	735.0	0.00
2nd zone	3x	1/2"	Grade C-D,C-C	10d	2,5,4,12	650.0	65.52
3rd zone	2x	1/2"	Grade C-D,C-C	10d	4,6,12	385.0	100.80
Center zone	2x	1/2"	Grade C-D,C-C	10d	6,6,12	290.0	
3rd zone	2x	1/2"	Grade C-D,C-C	10d	4,6,12	385.0	100.80
2nd zone	3x	1/2"	Grade C-D,C-C	10d	2,5,4,12	650.0	65.52
At South Wall	3x	1/2"	Grade C-D,C-C	10d	2,3,12	735.0	0.00

East & West Walls Design Data & Nailing Requirements

	Framing	Thickness in	Grade	Nail Size	Spacing in	Shear Value #/ft	Zone Distance ft
At West Wall	3x	1/2"	Grade C-D,C-C	10d	2,3,12	735.0	0.00
2nd zone	3x	1/2"	Grade C-D,C-C	10d	2,5,4,12	650.0	0.00
3rd zone	2x	1/2"	Grade C-D,C-C	10d	4,6,12	385.0	13.44
Center zone	2x	1/2"	Grade C-D,C-C	10d	6,6,12	290.0	
3rd zone	2x	1/2"	Grade C-D,C-C	10d	4,6,12	385.0	13.44
2nd zone	3x	1/2"	Grade C-D,C-C	10d	2,5,4,12	650.0	0.00
At East Wall	3x	1/2"	Grade C-D,C-C	10d	2,3,12	735.0	0.00

Shear & Chord Forces

Diaphragm Shears...	North	South	West	East
Total Shear	155555.4 lbs	155555.4 lbs	134534.4 lbs	134534.4 lbs
Shear per Foot	555.56 #/ft	555.56 #/ft	320.32 #/ft	320.32 #/ft
Chord Forces...				
@ 1/4 * Length		16,726.8 lbs		43,515.7 lbs
@ 1/2 * Length		22,422.4 lbs		58,333.3 lbs
@ 3/4 * Length		16,906.1 lbs		43,982.4 lbs
Length / Width Ratio	1.500			

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Timber Beam & Joist

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Description ROOF FRAMING

Timber Member Information

Calculations are designed to 1997 NDS and 1997 UBC Requirements

Timber Section		JOIST	skYLIGHT
		2x4	2x4
Beam Width	in	1.500	1.500
Beam Depth	in	3.500	3.500
Le: Unbraced Length	ft	0.00	0.00
Timber Grade		Douglas Fir - Larch	Douglas Fir - Larch
Fb - Basic Allow	psi	1,000.0	1,000.0
Fv - Basic Allow	psi	95.0	95.0
Elastic Modulus	ksi	1,700.0	1,700.0
Load Duration Factor		1.000	1.250
Member Type		Sawn	Sawn
Repetitive Status		Repetitive	Repetitive

1985 UBC ALLOWED
 FB = 1450 FOR No 2 g
 BETTER.

Center Span Data

Span	ft	7.67	7.67
Dead Load	#/ft	22.00	17.00
Live Load	#/ft	40.00	40.00

Results

Ratio = 1.0348 0.7611

Mmax @ Center	in-k	5.47	5.03
@ X =	ft	3.83	3.83
fb : Actual	psi	1,785.1	1,641.1
Fb : Allowable	psi	1,725.0	2,156.3
		OverStress	Bending OK
f _v : Actual	psi	63.0	57.9
Fv : Allowable	psi	95.0	118.8
		Shear OK	Shear OK

Reactions

@ Left End	DL	lbs	84.34	65.17
	LL	lbs	153.34	153.34
	Max. DL+LL	lbs	237.68	218.51
@ Right End	DL	lbs	84.34	65.17
	LL	lbs	153.34	153.34
	Max. DL+LL	lbs	237.68	218.51

Deflections

Center DL Defl	in	-0.188	-0.145
L/Defl Ratio		490.1	634.2
Center LL Defl	in	-0.341	-0.341
L/Defl Ratio		269.5	269.5
Center Total Defl	in	-0.529	-0.486
Location	ft	3.833	3.833
L/Defl Ratio		173.9	189.2



BUILT UP ROOFING	5.0 PSF
1/2" plywood	1.5 PSF
2x4 @ 24"	1.1 PSF
MISC	0.4 PSF
INSUL	1.0
TJI @ 8'-0"	<u>2.0 PSF</u>

11 PSF

WAREHOUSE

+ 3 PSF CEILING

14 PSF

OFFICE

GLYUGHT

50 # EACH

50/2x8 = 3.125 pcf

2x6 CURB = 2.375 pcf

FLASHING = 0.5 pcf

6 pcf

REMOVED PLY; ROOFING, INSUL = (1)(5+1.5+1.0) = 7.5 pcf

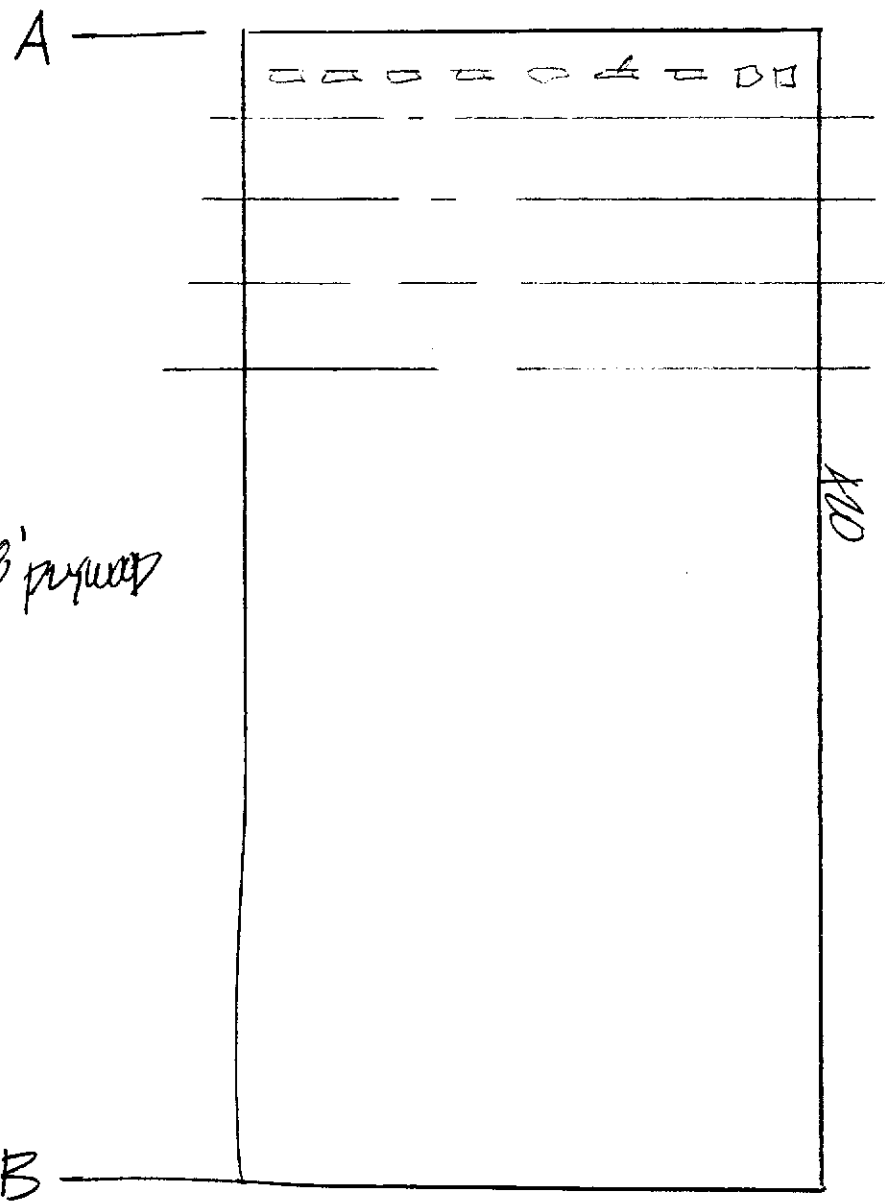
REMOVED MATERIAL > NEW WEIGHT



- 9 SKYLIGHTS X 8'
= 72'
OPNG.

↑
NORTH

280-72 = 208' PERIMETER



B

OB

NO

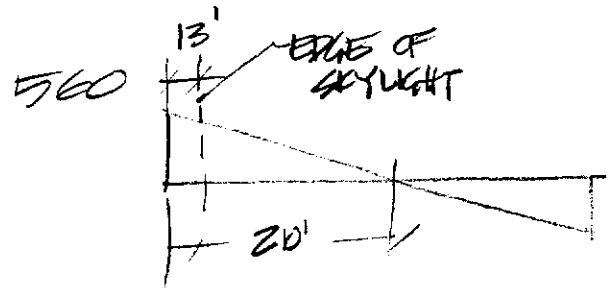


ROOF SHEAR FROM ENERCALC = 560 puf @ END WALL

Ve SKYLIGHT

$$\frac{X}{560} = \frac{197}{210}$$

$$X = 505 \text{ puf}$$



$$505 \text{ puf} * \left(\frac{280}{200}\right) = 707 \text{ puf (1st BAY)}$$

$$\frac{X}{560} = \frac{167}{210} \quad X = 445 \text{ puf (2nd BAY)}$$

$$445 \left(\frac{280}{200}\right) = 600 \text{ puf}$$

(E) 10d e 2 1/2, 1/2" STRUCT I, 2x MEMBERS

$$1995 \text{ UBC CAP} = 640 \text{ puf}$$

$$\frac{X}{560} = \frac{137}{210} \quad X = 365 \quad 365 \left(\frac{280}{200}\right) = 491 \quad 3 \text{ BAY}$$

$$\frac{X}{560} = \frac{107}{210} \quad X = 285 \quad 285 \left(\frac{280}{200}\right) = 381$$

$$(E) 10d e 6, 1/2" STRUCT I 2x \quad \text{CAP} = 320 \quad 218$$



CHECK BAY 1 FOR 5 OPNGS

$$505 \left(\frac{280}{240} \right) = 612 \text{ PF} < 640 \therefore \text{OK.}$$

→ OK FOR 5 OPNGS

CHECK BAY 4 FOR 5 OPNGS.

$$285 \left(\frac{280}{240} \right) = 332 > 320$$

FOR 4 OPNGS

$$285 \left(\frac{280}{248} \right) = 321 = 320$$

→ OK FOR 4 OPNGS

CHECK BAY 5

$$\frac{x}{560} = \frac{77}{210} \quad x = 205$$

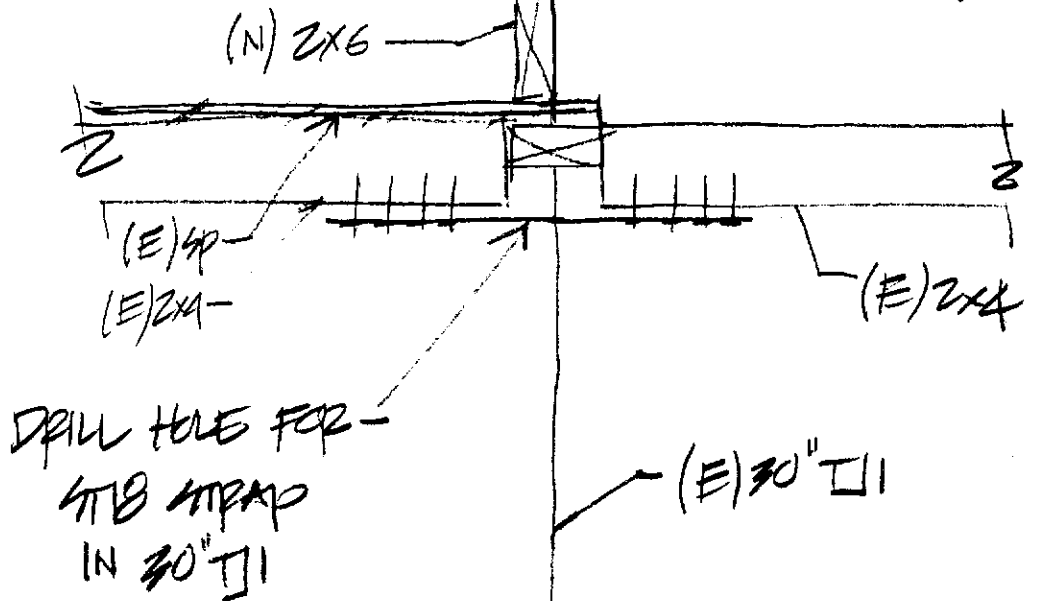
$$205 \left(\frac{280}{208} \right) = 276 < 320 \therefore \text{OK FOR 9 OPNGS}$$



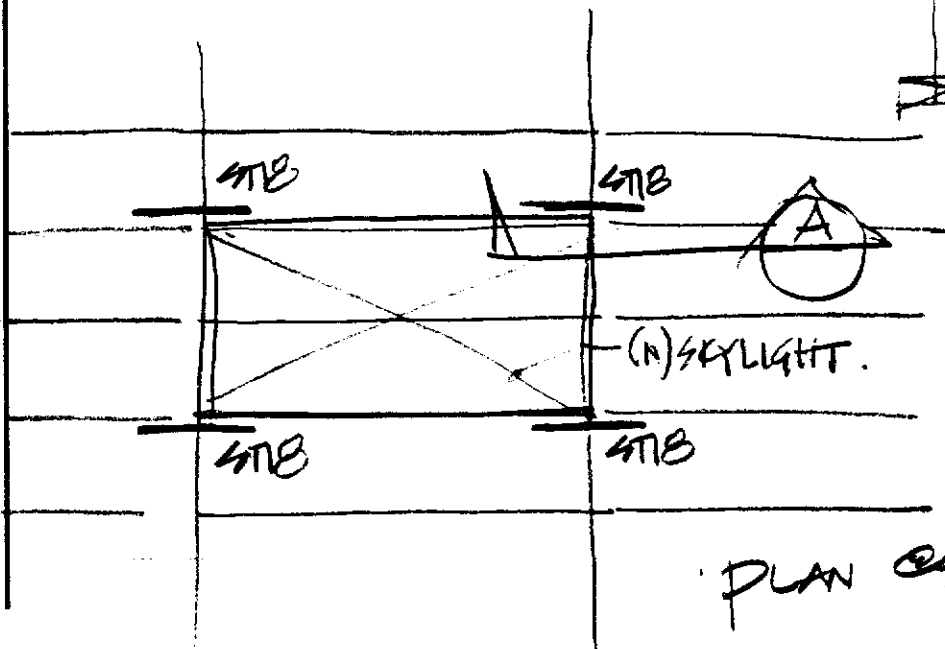
STRAP TIE

$$(600-445)(4) = 620\#$$

USE SIMPSON STRAP TIE (4T12 + 6" GAP)



SECTION A



PLAN SKYLIGHT

ISSUED

MAY 19 2001

San Antonio Building Division

ALUMINUM GLAZING
RETAINING FRAME

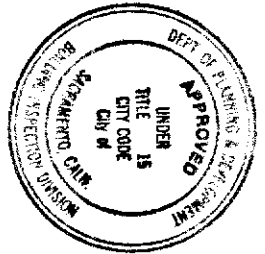
PATTERN 12.165 WHITE PRISMATIC ACRYLIC
MANUFACTURED BY ICI ACRYLICS, ICB0 # 4900

GE 1000 SILICONE SEALANT
(CONTINUOUS BETWEEN LENS
AND BEAD)

MODEL 8001B
CURB FRAME

6063-T5
ALUMINUM
FRAMES

SCREWS SUPPLIED BY
AMERICAN BOLT
#10 X 2" ZINC PLATED
TEST REPORT B18.6.4
AMC STANDARD



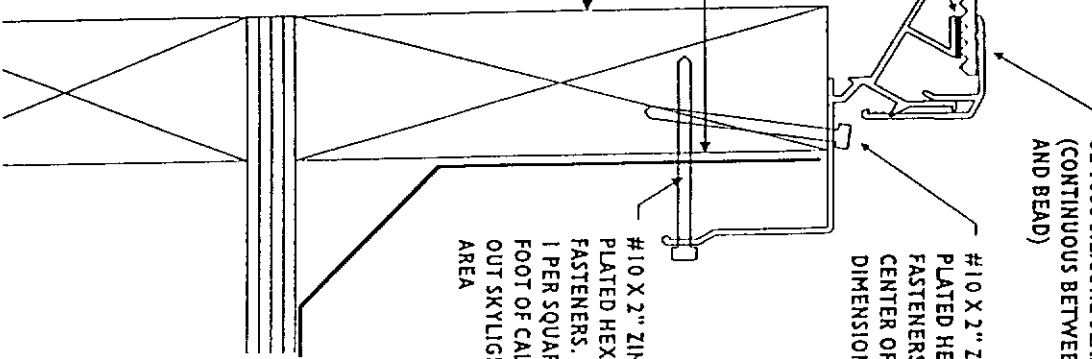
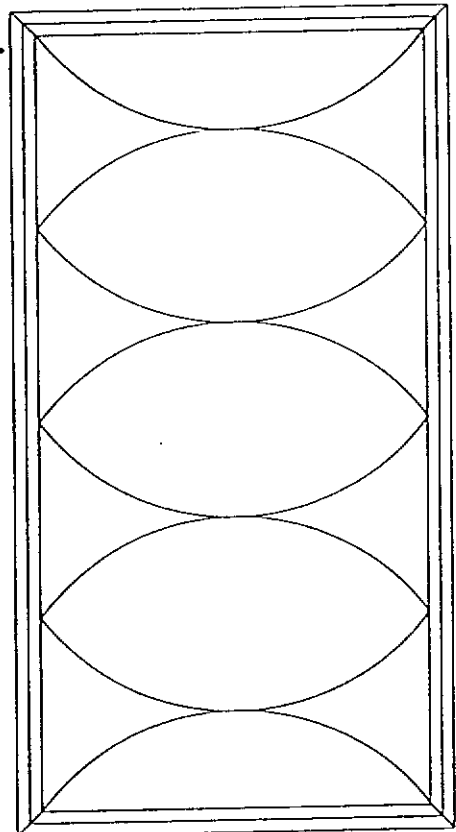
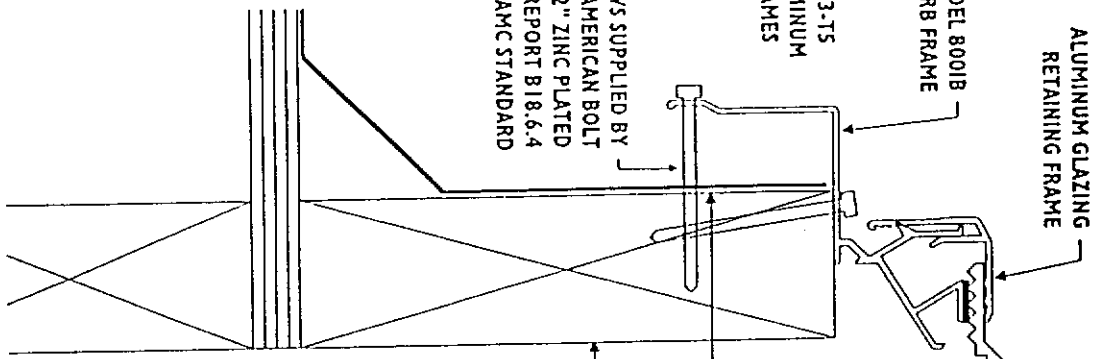
This set of plans and specifications must be kept on the job at all times and it is unlawful to make any changes or alterations from the same without written permission from the Building Inspection Division.

The approval of this plan and specification SHALL NOT be held to permit or approve the violation of any City Ordinance or State Law.
51 1/2" X 97 1/2" O.D. ROUGH CURB

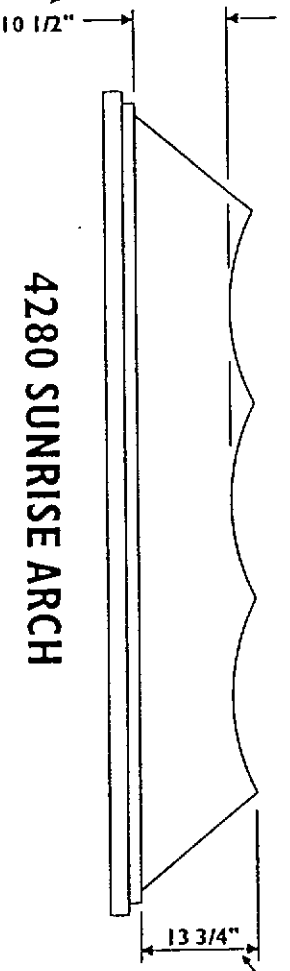
48 1/2" X 94 1/2" I.D. ROUGH CURB

#10 X 2" ZINC
PLATED HEX
FASTENERS. 1 AT
CENTER OF 8'
DIMENSION.

#10 X 2" ZINC
PLATED HEX
FASTENERS.
1 PER SQUARE
FOOT OF CALL
OUT SKYLIGHT
AREA



HEIGHT OF DOME
AT VALLEY



4280 SUNRISE ARCH

13 3/4"
DOME HEIGHT
AT RIDGE

4280 MODEL 8001B
FIXED SKYLIGHT WITH
SUNRISE ARCH LENS