

P E R M I T

CITY OF NAPOLEON
255 W. RIVERVIEW AVE
NAPOLEON, OHIO 43545

DIVISION OF BUILDING & ZONING
PH (419) 592-4010
FAX (419) 599-8393

PERMIT NO: 386

DATE ISSUED: 10-26-00

ISSUED BY: BND

JOB LOCATION: 886 W GRACEWAY DR

EST. COST: 7500.00

LOT #:

SUBDIVISION NAME:

OWNER: GRAHAM, MAURICE
ADDRESS: 886 W GRACEWAY DR
CSZ: NAPOLEON, OH 43545
PHONE: 419-592-7805

AGENT: PATIO ENCLOSURES INC
ADDRESS: 849 ST RT 20 E
CSZ: NORWALK, OH 44857
PHONE: 419-244-3886

USE TYPE - RESIDENTIAL:

OTHER:

ZONING INFORMATION

DIST: LOT DIM: AREA: FYRD: SYRD: RYRD: 15
MAX HT: # PKG SPACES: # LOADING SP: MAX LOT COV:

BOARD OF ZONING APPEALS:

WORK TYPE - NEW: REPLMNT: ADD'N: X ALTER: REMODEL:

WORK INFORMATION

SIZE - LGTH: 14 WIDTH: 11 STORIES: 1 LIVING AREA SF: 144
GARAGE AREA SF: HEIGHT: 8 BLDG VOL DEMO PERMIT:

WORK DESCRIPTION

ADDITION DECK ENCLOSURE
MIN CEILING HGT 7.5'

FEE DESCRIPTION

PAID DATE

FEE AMOUNT DUE

BUILDING PERMIT

53.00

TOTAL FEES DUE

53.00

DATE

APPLICANT SIGNATURE



MINISTRY OF REVENUE & CUSTOMS
100 W. WASHINGTON AVE
WASHINGTON, D.C. 20540

OFFICE OF THE DIRECTOR
100 W. WASHINGTON AVE
WASHINGTON, D.C. 20540

RECEIVED BY THE DIRECTOR OF REVENUE & CUSTOMS
ON OCTOBER 28, 1988

APPLICANT: [Name]
ADDRESS: [Address]
CITY: [City] STATE: [State] ZIP: [ZIP]

DATE OF APPLICATION: [Date]

AMOUNT OF TAX: [Amount]

REASON OF APPLICATION: [Reason]

APPLICANT'S SIGNATURE: [Signature]

DATE OF SIGNATURE: [Date]

APPLICANT'S ADDRESS: [Address]

CITY: [City] STATE: [State] ZIP: [ZIP]

APPLICANT'S TELEPHONE: [Phone Number]

APPLICANT'S SOCIAL SECURITY NUMBER: [SSN]



CITY OF NAPOLEON OHIO PERMIT APPLICATION

THIS APPLICATION IS FOR RESIDENTIAL CONSTRUCTION INCLUDING BUILDING, ELECTRICAL, PLUMBING, MECHANICAL, DEMOLITION, REMODELING.

DATE 9-27-00 JOB LOCATION 886 W. GRACEWAY NAPOLEON O.

LOT # _____ SUBDIVISION NAME _____

OWNER MAURICE & WANDA GRAHAM PHONE 419-592-7805

OWNER ADDRESS 886 W. GRACEWAY CITY NAPOLEON, O. ZIP 43545

CONTRACTOR PATIO ENCLOSURES, INC. PHONE 419-244-3886

CONTRACTOR ADDRESS 3132 W. SYLVANIA AVE. CITY TOLEDO, O. ZIP 43613

CONTRACTOR FAX # 419-~~668-1769~~ CELL PHONE (Opt.) _____

DESCRIPTION OF WORK TO BE PERFORMED: UNHEATED 3-SEASON SUNROOM

ESTIMATED COST OF WORK TO BE PERFORMED: \$7,500.-

WORK INFORMATION

BUILDING: Basement Floor Area _____ Sq. Ft. 1st Story Living Area 154 Sq. Ft.

2nd Floor Living Area _____ Sq. Ft. Garage Floor Area _____ Sq. Ft.

BUILDING SIZE: Length 14' Width 11' Stories 1 Height 8' DEMO VOL _____

Masonry Contractor N/A Phone _____ Fax _____
Address _____ City _____ St _____ Zip _____

Electrical Contractor N/A Phone _____ Fax _____
Address _____ City _____ St _____ Zip _____

Plumbing Contractor N/A Phone _____ Fax _____
Address _____ City _____ St _____ Zip _____

Heating Contractor N/A Phone _____ Fax _____
Address _____ City _____ St _____ Zip _____

Insulation Contractor N/A Phone _____ Fax _____
Address _____ City _____ St _____ Zip _____

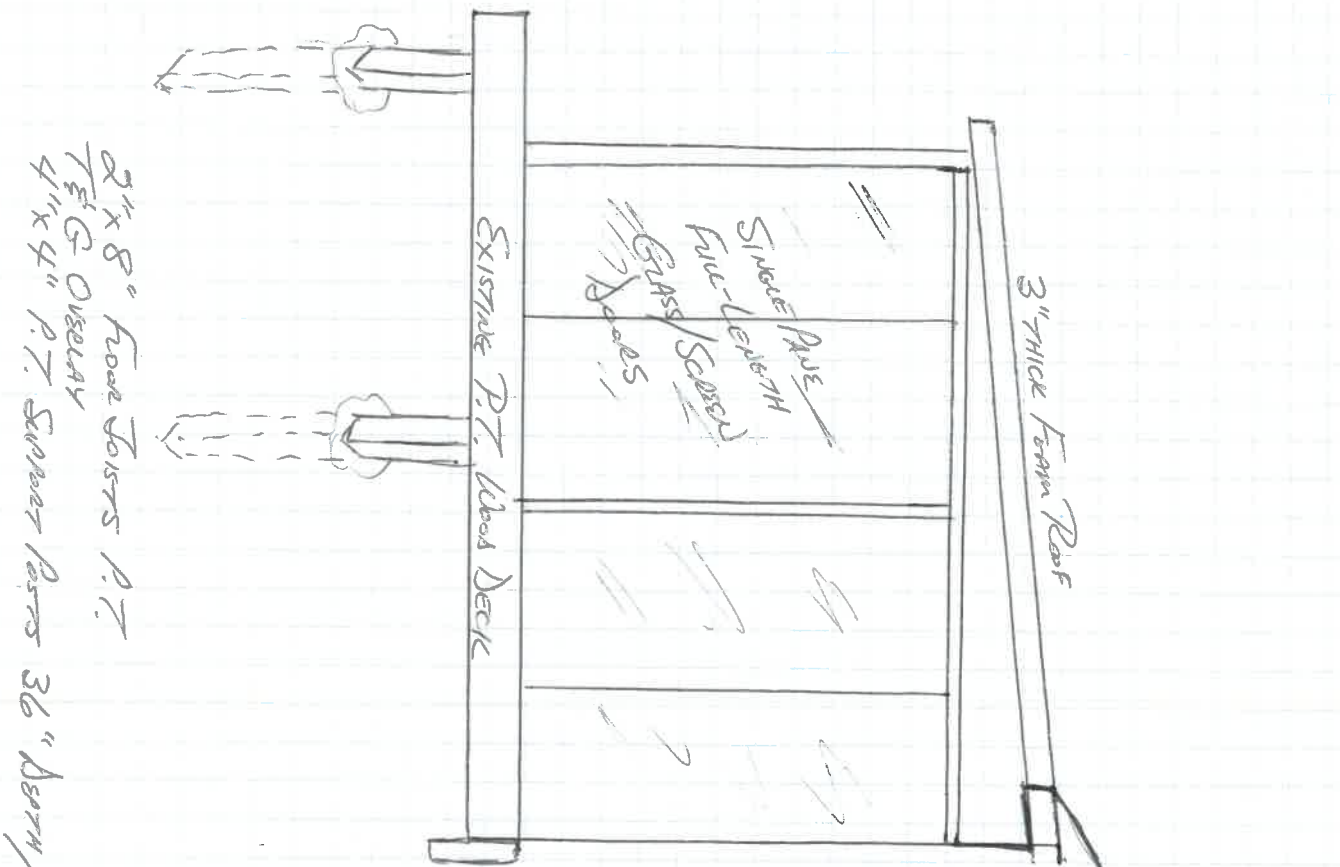
Other Contractor attach information.

ZONING INFORMATION (to be completed by City): District _____ Lot Dimensions _____
Lot Area _____ FRSB _____ SYSB _____ RYSB _____ Max Ht _____ ft Max Cov _____ %

I by signing below agree to comply with all applicable City of Napoleon Codes & Ordinances while performing the work herein described. I understand that all work for which a permit is issued is required to be approved by the building inspector of the City of Napoleon.

Applicant Signature Kris D. Shank Date 9-29-00

KRIS D. SHANK, PATIO ENCLOSURES



2" x 8" Floor Joists P.T.
 7 1/2" G OVERLAY
 4" x 4" P.T. Support Posts 36" ASPTM / STEELS on CONCRETE.

HOUSE
 ROOF

HOUSE WALL
 (EXISTING 32" STEEL-
 BOLE FOR ENTRY/EXIT
 FROM SWIMMING)

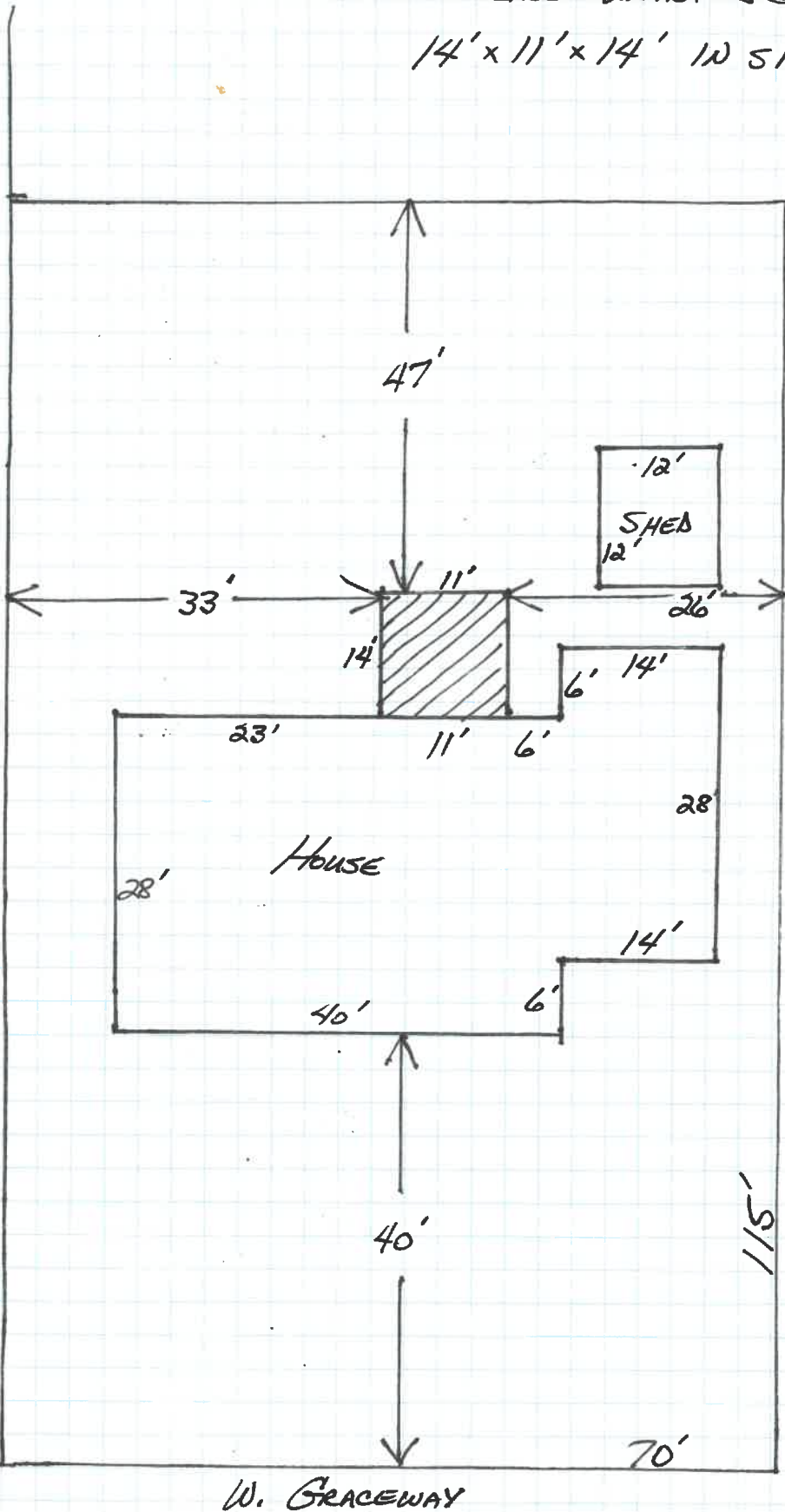
MURPHY'S WILYAMA BEACH
 886 W. GARDENWAY
 NAPUELEO, O. 435415

PATIO ENCLOSURES
 3132 W. SYCAMORE
 OAKLAND, O. 43613

MAURICE & WANNA GRAHAM
886 W. GRACEWAY
NAPOLEON, O. 43545

PATIO ENCLOSURES
3132 W. SYLVANIA
TOLEDO, O. 43613

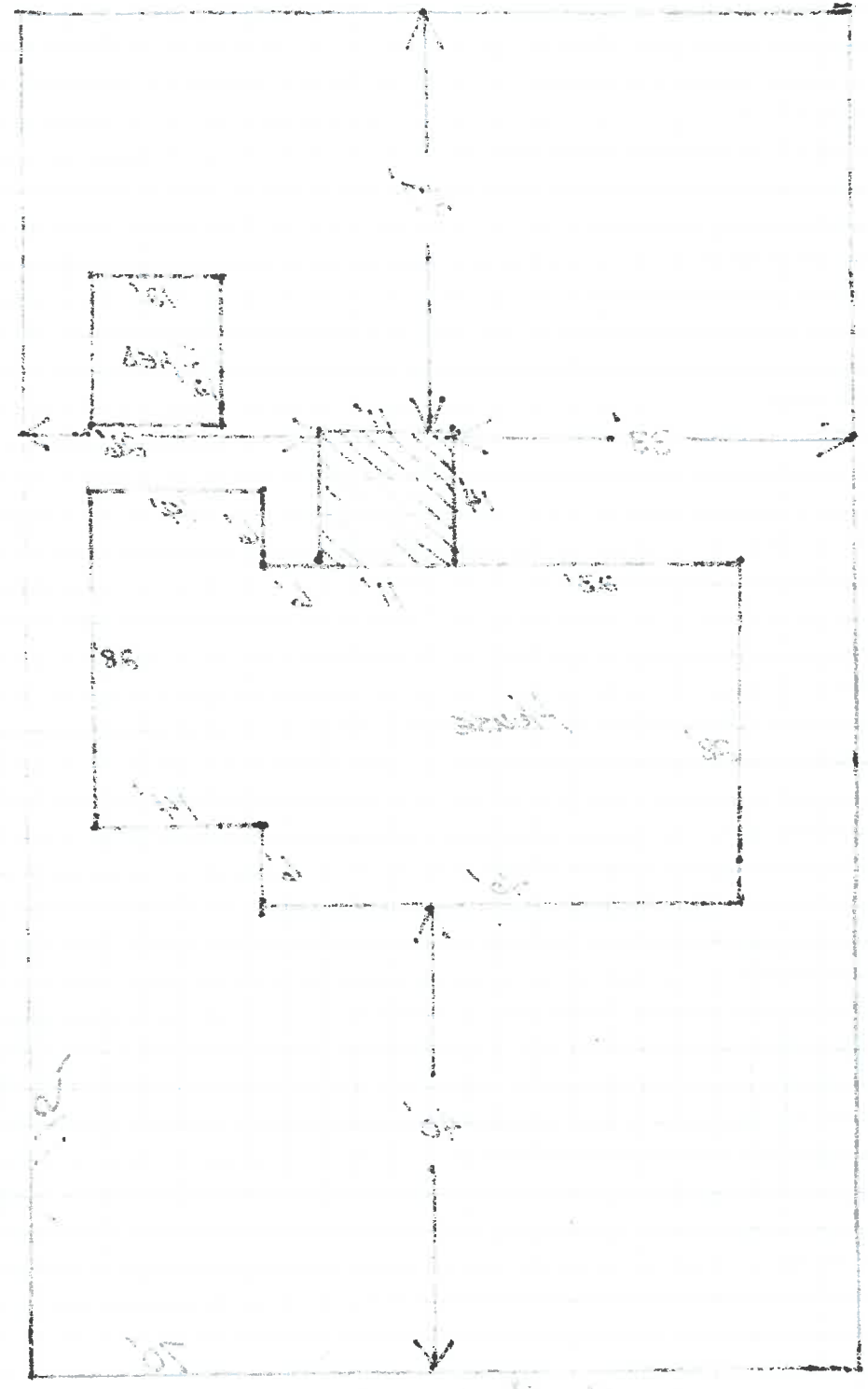
3-SEASON UNHEATED SUNROOM
14' x 11' x 14' IN SIZE



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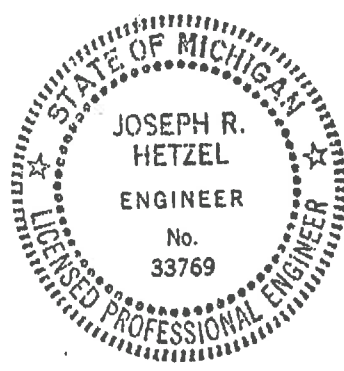
PATIO ENCLOSURES, INC.
MANUFACTURERS OF PATIO & PORCH ENCLOSURES
SOLARIUMS * GREENHOUSES

TITLE: PRODUCT ENGINEERING MANUAL ON "ALL-VIEW" THREE-SEASON ROOMS

CERTIFICATION: I hereby certify the following:

1. I am in responsible charge concerning the calculations prepared herein.
2. The calculations prepared herein are true and correct, to the best of my knowledge and ability.
3. I am qualified to perform the calculations prepared herein, based on my education and experience.
4. I am an actively registered professional engineer in the state(s) having jurisdiction over the application of the calculations prepared herein, to which I affix my seal(s) below.

Signature Joseph R. Hetzel Date December 8, 1993
Registration OH # 48598, MI # 33769



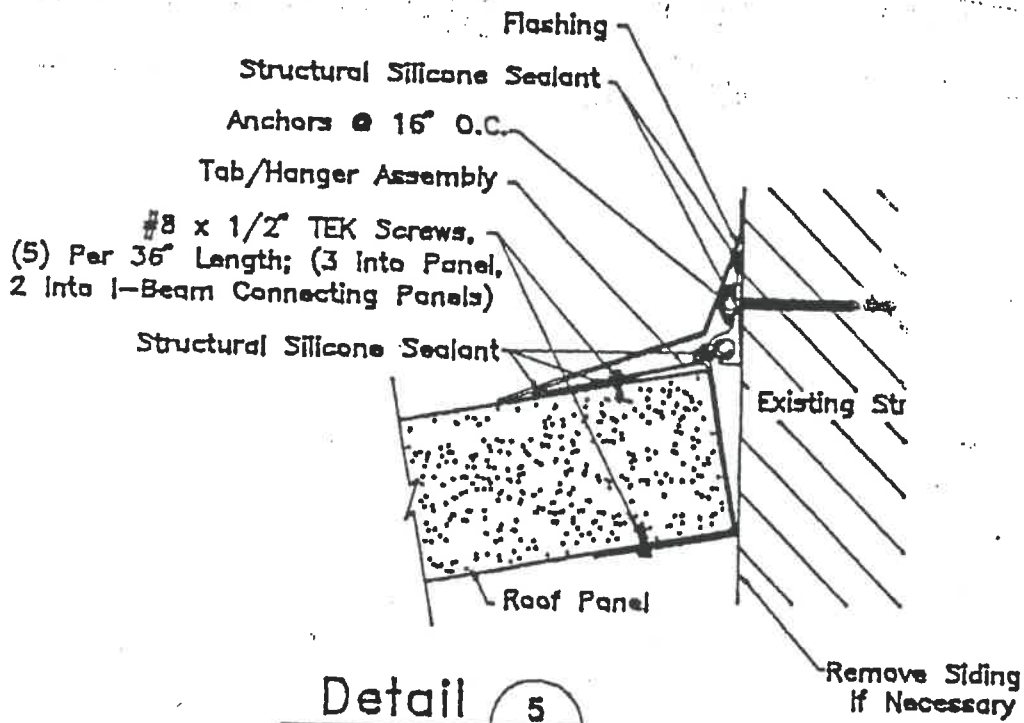
SECT100.FEM

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MANUFACTURERS OF PATIO & PORCH ENCLOSURES
SOLARIUMS & GREENHOUSES

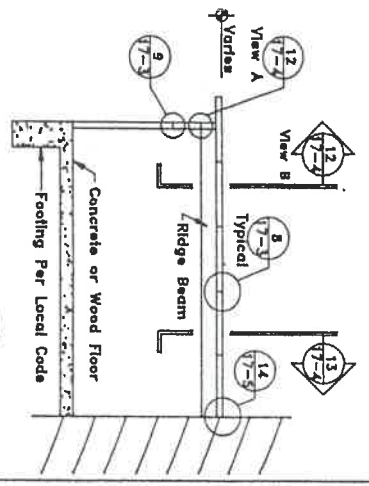
ROOF SYSTEM PERFORMANCE DATA

Ground Snow Load: 20 PSF Code Group: BOCA (F.S. = 2.5)													
Roof System: 3" "Super-Foam"													
Roof Panels: .024" 3105-H174 Al. Skin T & B: 1.5 PCF EPS Foam Core													
Roof I-Beams: Therm Brk., .078" Flanges, .062" Web. (PEI Dwg. #1-0217)													
Roof Type: Single Slope													
NO GLASS ROOF PANELS OR SKYLIGHTS													
Clear Span, Ft.	8	9	10	11	12	13	14	15	16	17	18	19	20
Ult. Load, PSF	192.75	152.3	123.36	102.0	85.7	73.0	62.9	54.8	48.2	42.7	38.1	34.2	30.8
Allow. Load, PSF	77.1	60.9	49.3	40.8	34.3	29.2	25.2	21.9	19.3	17.1	15.2	13.7	12.3
1-St SL, PSF	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
1-St SL + DL, PSF	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
1-St.SL+DL Defl.,in.	0.180	0.265	0.379	0.529	0.719	0.959	1.254	1.618	2.057	2.581	3.204	3.933	4.781
2-St. SL, PSF	30.7	28.3	26.3	24.5	23.0	21.8	20.7	20.0	20.0	20.0	20.0	20.0	20.0
2-St. SL + DL, PSF	32.1	29.7	27.7	25.9	24.4	23.2	22.1	21.4	21.4	21.4	21.4	21.4	21.4
2-St.SL+DL Defl.,in.	0.270	0.368	0.490	0.640	0.820	1.039	1.295	1.618	2.057	2.581	3.204	3.933	4.781
For PEI Use Only	0.0084	0.0124	0.0177	0.0247	0.0336	0.0448	0.0586	0.0756	0.0961	0.1206	0.1497	0.1838	0.2234

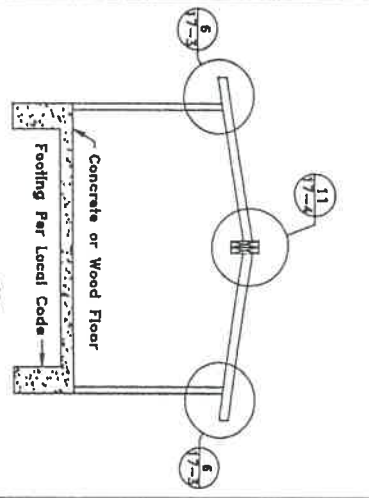


Detail 5
17-2

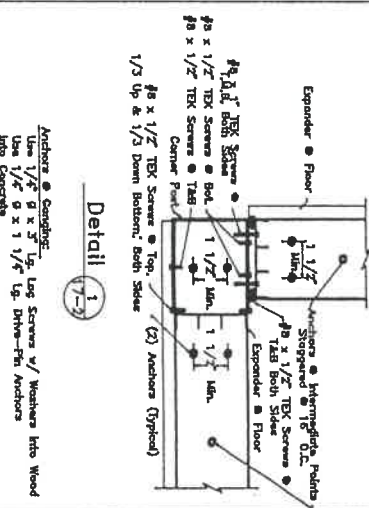
Anchors: Use 1/4" ϕ x 3" Lg. Lag Screws Into Studs
Use 1/4" ϕ Lags w/ Lag Shields Into Concrete Block or Brick



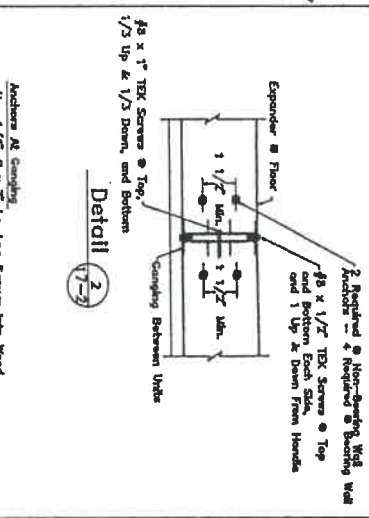
Section C
11-2



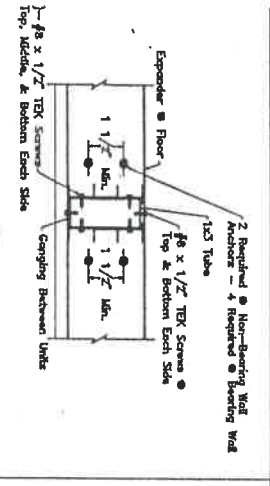
Section D
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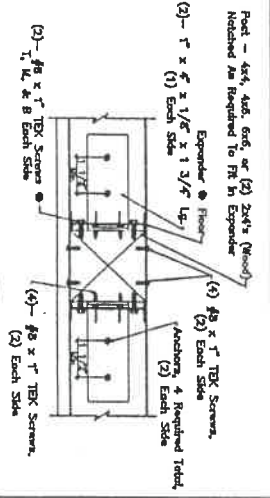
Detail 1
11-2



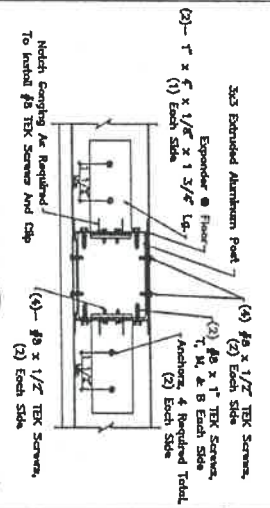
Detail 2
11-2



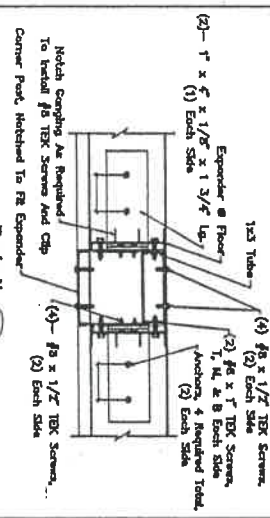
Detail 3
11-2



Detail 4
11-2



Detail 4
11-2



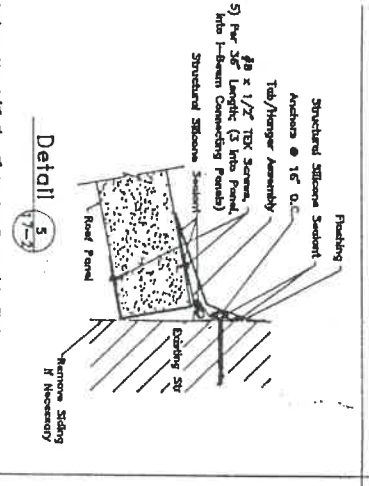
Detail 4
11-2

Anchor At Ceiling
Use 1/4" g x 3" Lp. Log Screws Into Wood
Use 1/4" g x 1 1/4" Lp. Drive-Pin Anchors Into Concrete

Anchor At Ceiling
Use 1/4" g x 3" Lp. Log Screws Into Wood
Use 1/4" g x 1 1/4" Lp. Drive-Pin Anchors Into Concrete

Anchor At Ceiling
Use 1/4" g x 3" Lp. Log Screws Into Wood
Use 1/4" g x 1 1/4" Lp. Drive-Pin Anchors Into Concrete

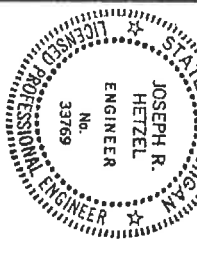
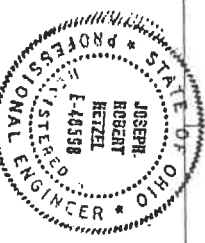
Anchor At Ceiling
Use 1/4" g x 3" Lp. Log Screws Into Wood
Use 1/4" g x 1 1/4" Lp. Drive-Pin Anchors Into Concrete



Detail 5
11-2

Anchor: Use 1/4" g x 3" Lp. Log Screws Into Stud
Use 1/4" g Lp. Log Studs Into Concrete Block or Brick

NOTE:
The plans, elevations, sections and details contained herein are in accordance with information contained in "Product Engineering Manual on 'All-View' Three Season Rooms" as published by Pella Enclosures, Inc., Macedon, Ohio. Limitations for product usage are contained in said "Product Engineering Manual". See individual job submitted for specific projections, unit widths and wall heights.



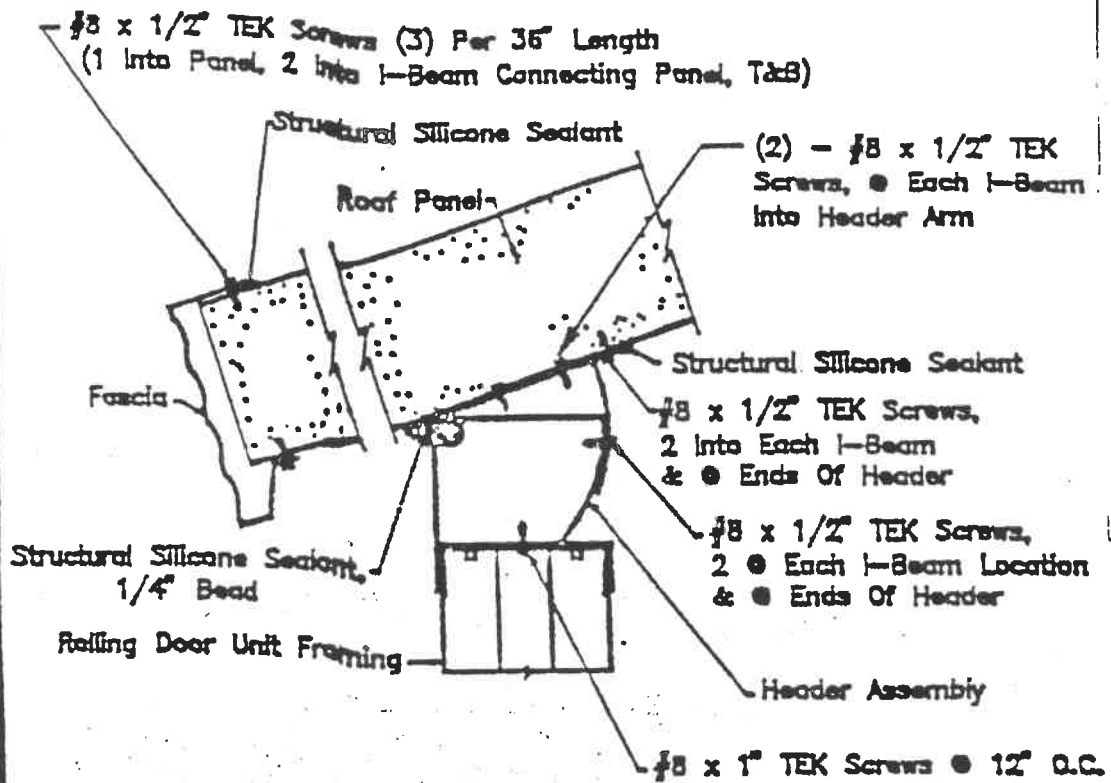
GENERAL STRUCTURAL DETAILS FOR PELLA "ALL-VIEW" THREE SEASON ROOMS
NOTE: Details on this sheet are also in section 500 of the "All-View Rooms Engineering Manual"



720 EAST HIGHLAND ROAD
P.O. BOX 186 • MACEDON, OHIO 44055
(216) 458-0700 FAX (216) 457-4297

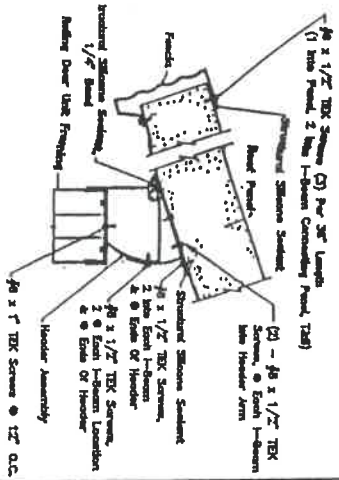
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REVISIONS:					
APPROVED BY:	D# # 48598				
SIGNATURE:	<i>Joseph R. Hetzl</i>				
	MI # 33769				
	DATE 1/20/94				
	P.E. REG. NO.				

PEI ENGINEERING - SECTION 17
ALL-VIEW ROOMS
SHEET: 2

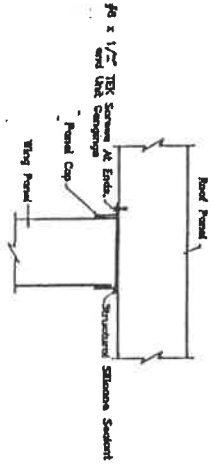


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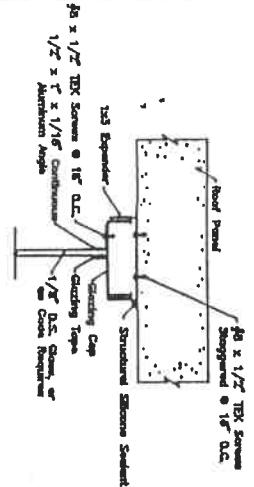
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17-3



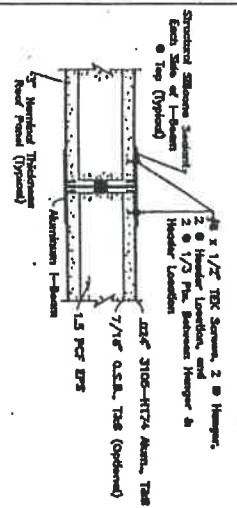
Detail 6



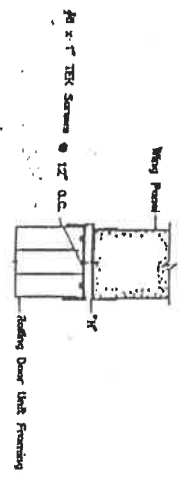
Detail 7



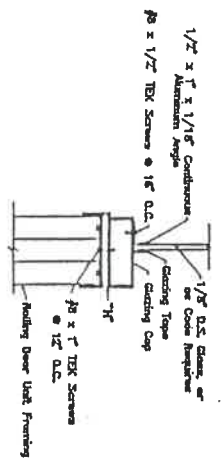
Detail 7



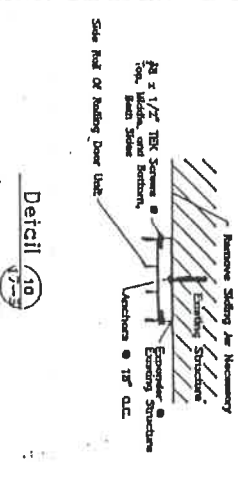
Detail 8



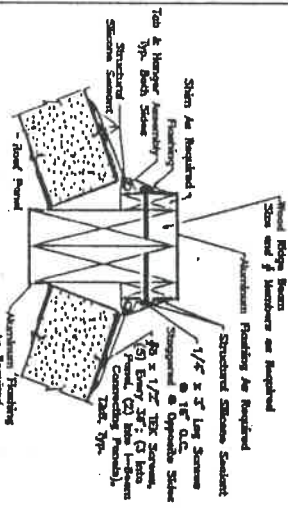
Detail 9



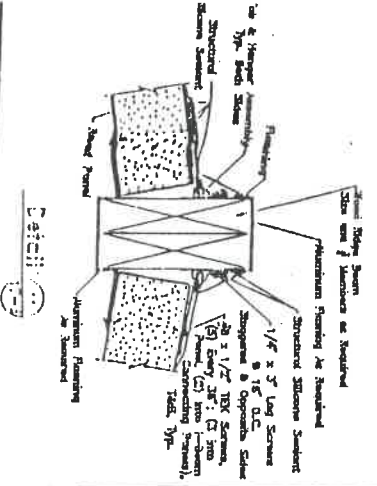
Detail 9



Detail 10

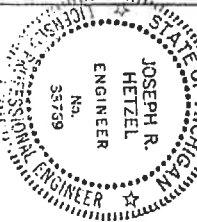


Detail 11



Detail 12

NOTE:
The plans, elevations, sections and details contained herein are in accordance with information contained in "Product Engineering Manual on 'All-View' Three Season Rooms" as published by Patio Enclosures, Inc., Macedonia, Ohio. Limitations for product usage are contained in said "Product Engineering Manual". See individual job submittal for specific projections, unit widths and wall heights.



GENERAL STRUCTURAL DETAILS FOR PEI "ALL-VIEW" THREE SEASON ROOMS
NOTE: Details on this sheet are also in section 500 of the "All-View Rooms Engineering Manual"

SCALE: NONE DRAWN: MMD DATE: 11/12/93
720 EAST HIGHLAND ROAD
P.O. BOX 185 • MACDONALD, OHIO 44055
CIVIL 68-0700 FAX (216) 487-4257

APPROVED BY: *Joseph R. Hertz* ON # 48598
SIGNATURE: *Joseph R. Hertz* M. # 33714 P.E. REG. NO. DATE: 1/31/95

PEI ENGINEERING - SECTION 17 SHEET: 3 ALL-VIEW ROOMS

By GRJ Date 12/8/93 Sheet 1 of 6

Section 300 Subject: All-View Room
Product Engineering Manual
Structural Component
Descriptions

PATIO ENCLOSURES, INC.
MANUFACTURERS OF PATIO & PORCH ENCLOSURES
SOLARIUMS * GREENHOUSES

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STRUCTURAL COMPONENT DESCRIPTIONS

SINGLE-SLOPE ROOF ROOMS - FRAMING MEMBERS

MEMBER	FUNCTION	APPLICATION (See Sect. 500)
Corner Column	Support of header, and framing of sliding door units	Detail 40-1
H @ A & C-Wall	Framing across top of sliding door units non-bearing wall (Encl.)	Detail 40-9
Header System @ B-Wall	Support of roof system @ bearing wall (Encl.)	Detail 40-6
Hanger System @ Existing House	Support of roof system @ existing house	Detail 40-5
Ganging Between Units @ B-Wall, w/o Tube	Support of header, and framing of sliding door units, w/o transom	Detail 40-2
Ganging Between Units @ B-Wall, w/Tube	Support of header, and framing of sliding door units, w/transom	Detail 40-3
Ganging Between Units @ A & C-Wall, w/o Tube	Framing of sliding door units @ enclosure non-bearing walls, w/o transom	Detail 40-2
Ganging Between Units @ A & C-Wall, w/Tube	Framing of sliding door units @ enclosure non-bearing walls, w/transom	Detail 40-3
Transom	Horizontal framing between sliding door unit (below) and fixed glass unit (above)	Not Shown

NOTE: See Section 2100 for materials and cross-sections of above members

SECT300.ALL

Section 300 Subject: All-View Room
Product Engineering Manual
Structural Component
Descriptions

PATIO ENCLOSURES, INC.
MANUFACTURERS OF PATIO & PORCH ENCLOSURES
SOLARIUMS * GREENHOUSES

=====

STRUCTURAL COMPONENT DESCRIPTIONS
SINGLE-SLOPE ROOF ROOMS - FASTENERS

MEMBER	CONNECTED TO	USING	FUNCTION	APPLICATION (See Sect. 500)
Hanger Assembly	Ex. Wall (Wood)	(1)	Support roof system @ existing house	Detail 40-5
Hanger Assembly	Ex. Wall (Concrete Block or Brick)	(2)	Support roof system @ existing house	Detail 40-5
Vert. Expander	Ex. Wall (Wood)	(1)	Connect sliding door unit to existing house	Detail 40-10
Vert. Expander	Ex. Wall (Concrete Block or Brick)	(3)	Connect sliding door unit to existing house	Detail 40-10
Horiz. Expander	Ex. Floor (Concrete) Between Vertical Structural Members	(4)	Connect sliding door unit to existing floor	Detail 40-1
Horiz. Expander	Ex. Floor (Concrete) @ Corner Column	(4)	Anchor framing system against uplift & horiz. wind load	Detail 40-1
Horiz. Expander	Ex. Floor (Concrete) @ A & C-Wall Ganging Between Units	(4)	Anchor framing system against horiz. wind load	Detail 40-2
Horiz. Expander	Ex. Floor (Concrete) @ B-Wall Ganging Between Units	(4)	Anchor framing system against uplift & horiz. wind load	Detail 40-2
Corner Column	Horiz. Expander	(5)	Framing system interconnection against uplift & horiz. wind load	Detail 40-1
Corner Column	Header	(5)	Framing system interconnection against uplift & horiz. wind load	Not Shown

- 1) 1/4" dia. x 3" Lg. Lag Screws
- 2) 1/4" dia. x 1-1/2" Lg. Lag Screws, with 5/16" dia. x 1-1/2" Lg. Lag Shields
(U.S.E. Sup-R-Lag #3305 or equiv.)
- 3) 1/4" dia. x 1" Lg. Nylon Anchors (U.S.E. "Tap-It" #5630 or equiv.)
- 4) 1/4" dia. x 1-1/4" Lg. Drive Pin Anchors (Rawl Zamac Nailins or equiv.)
- 5) #8 x 1/2" Lg. Sheet Metal Screws

SECT300.ALL

PATIO ENCLOSURES, INC.
MANUFACTURERS OF PATIO & PORCH ENCLOSURES
SOLARIUMS * GREENHOUSES

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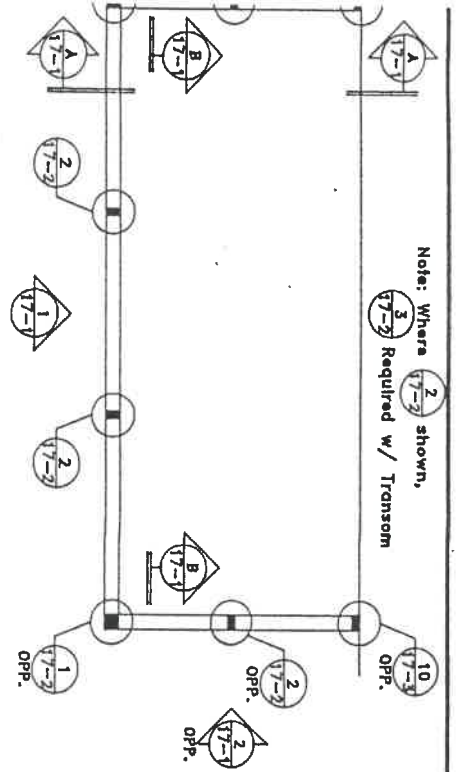
STRUCTURAL COMPONENT DESCRIPTIONS

SINGLE-SLOPE ROOF ROOMS - FRAMING MEMBERS

MEMBER	CONNECTED TO	USING	FUNCTION	APPLICATION (See Sect. 500)
B-Wall Ganging Between Units	Horizontal Expander	(5)	Framing system interconnection against uplift & horiz. wind load	Detail 40-2
B-Wall Ganging Between Units	Header	(5)	Framing system interconnection against uplift & horiz. wind load	Not Shown
Roof System	Header @ I-Beam Locations	(5)	Framing system interconnection against uplift	Detail 40-6
Roof System	Panel Cap @ Room Corner	(6)	Framing system interconnection against uplift	Detail 40-16
Panel Cap	Corner Post	(5)	Framing system interconnection against uplift	Detail 40-16
H	Existing House (Wood)	(5)	Anchor enclosure wall against wind load	Not Shown
H	Existing House (Concrete Block or Brick)	(3)	Anchor enclosure wall against wind load	Not Shown
H	Corner Column	(5)	Anchor enclosure wall against wind load	Not Shown

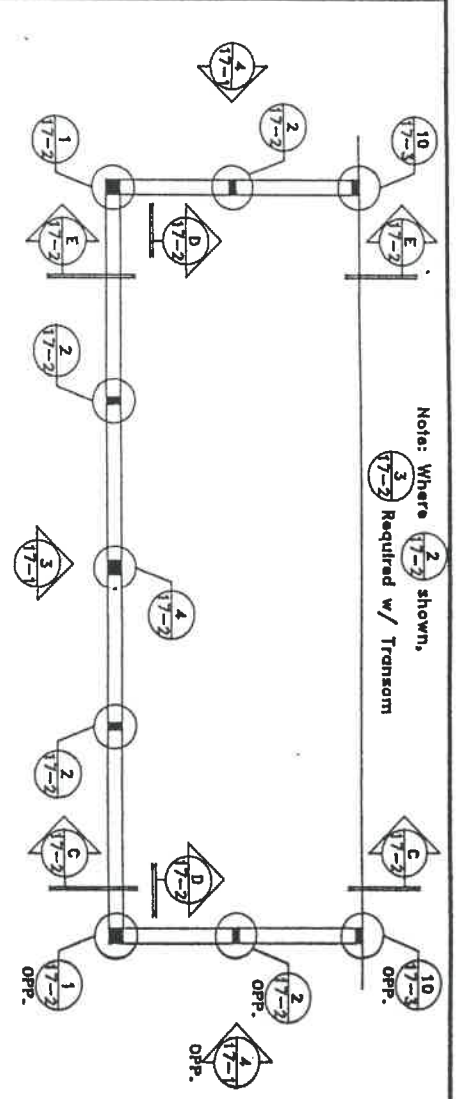
- 1) 1/4" dia. x 3" Lg. Lag Screws
- 2) 1/4" dia. x 1-1/2" Lg. Lag Screws, with 5/16" dia. x 1-1/2" Lg. Lag Shields
(U.S.E. Sup-R-Lag #3305 or equiv.)
- 3) 1/4" dia. x 1" Lg. Nylon Anchors (U.S.E. "Tap-It" #5630 or equiv.)
- 4) 1/4" dia. x 1-1/4" Lg. Drive Pin Anchors (Rawl Zamac Nailins or equiv.)
- 5) #8 x 1/2" Lg. Sheet Metal Screws
- 6) 1/4" dia. x 4" Lg. Lag Screws

SECT300.ALL



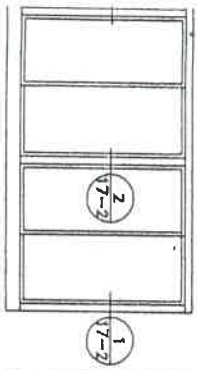
Note: Where ⁽²⁾ shown, ⁽³⁾ Required w/ Transom

Single Slope Roof Enclosure Plan View

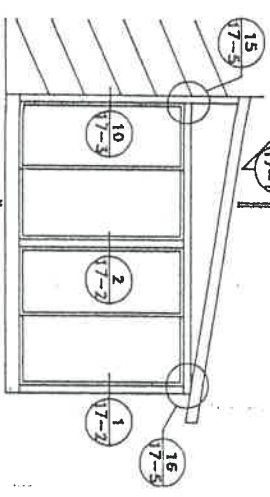


Note: Where ⁽²⁾ shown, ⁽³⁾ Required w/ Transom

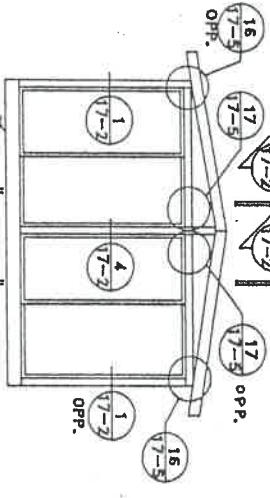
Gable Roof Enclosure Plan View



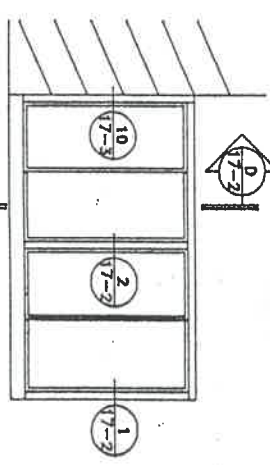
'A' & 'C' Wall Elevation



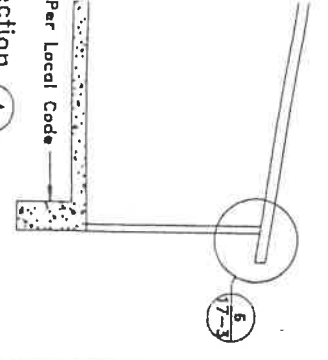
'B' Wall Elevation



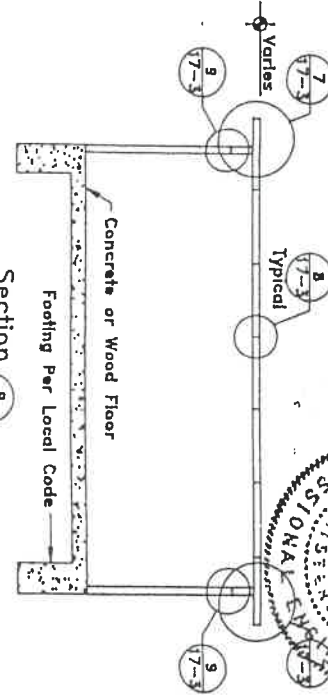
'A' & 'C' Wall Elevation



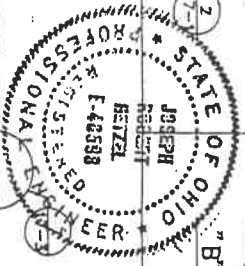
'A' & 'C' Wall Elevation



Section A



Section B



GENERAL STRUCTURAL DETAILS FOR PEI "ALL-VIEW" THREE SEASON ROOMS
 NOTE: Details on this sheet are also in section 500 of the "All-View Rooms Engineering Manual"

SCALE:	NONE	DRAWN:	MAD	DATE:	11/12/11
REVISIONS:					

APPROVED BY: *Joseph R. Heitzel* **OH # 48598**
 SIGNATURE **MI # 537169**
 P.E. REG. NO. **1/20/14**
 DATE

ALL-VIEW ROO
 SHEET: 1

INTRODUCTION:

This report represents test results on a material submitted for testing by Patio Enclosures, Inc., of Macedonia, Ohio.

The test was conducted in accordance with the American Society for Testing and Materials Standard Test Method for "Surface Burning Characteristics of Building Materials," E 84-90, also known as the Steiner Tunnel Test. This method is similar to ANSI 2.5, NFPA No. 255, UBC No. 42-1, and UL No. 723. This method has been approved for use by agencies of the Department of Defense and for listing in the DoD Index of Specifications and Standards.

The E 84 standard should be used to measure and describe the properties of materials, products, or assemblies in response to heat and flame under controlled laboratory conditions. It should not be used for the appraisal, description, or regulation of the fire hazard or fire risk of the materials. No consideration is made for results that may be obtained if the material being evaluated were tested in combination with other materials.

In the light of present knowledge, fire performance of any material cannot be evaluated on the basis of one test. However, results of this test may be used as one element of a fire risk assessment that takes into account all of the factors which are pertinent to an assessment of the fire hazard of a particular end use.

These test results represent only the sample tested and are not necessarily indicative of apparent identical or similar materials. All test data are on file and available for review by authorized persons.

PURPOSE:

The purpose of this test method is to determine the relative burning behavior of a material by observing the flame spread along the surface of the specimen. It is intended to provide comparative measurements of surface flame spread and smoke development of materials with that of select grade red oak and inorganic fiber reinforced cement board under specific fire exposure conditions. The test exposes a nominal 24-foot long by 21-inches wide specimen to a controlled air flow and flaming fire adjusted to spread the flame along the entire length of a red oak specimen in 5½ minutes during a 10-minute test duration while flamespread over its surface and density of the resulting smoke are measured and recorded. Test results are calculated relative to the red oak specimen, which has an arbitrary rating of 100, and the cement board, which has a rating of 0. The test results are expressed as Flamespread Index and Smoke Density. However, there is not necessarily a relationship between these two measurements.

TEST PROCEDURE:

The test specimens, selected and identified by the Client, were conditioned to equilibrium in an atmosphere with the temperature maintained between 69°F and 73°F, and the relative humidity between 47 and 53 percent. The zero



COMMERCIAL TESTING COMPANY

reference and other parameters critical to furnace operation were verified on the day of the test by conducting a 10-minute burn using 1/2-inch cement board. Periodic tests using NCFMA certified select grade red oak flooring provided data for the 100 reference. The material were then tested in accordance with test method procedures.

TEST SPECIMENS:

Identification: Aluminum over EPS

Composition: Aluminum covered EPS panels consisting of Falcon Manufacturing 1.5 lbs/ft³ density EPS covered on both sides with Nichols Homeshield 0.024-inch aluminum 3105-H174. The aluminum is adhered to the EPS with Morton Thiokol Mor-AD Adhesive. Finished thickness of the panels is nominally 3 inches.

Mounting: The panels as received were physically self-supporting and required no additional sample preparation. The panels were placed onto the ledges of the tunnel furnace and the test conducted as specified in the E 84 standard.

TEST RESULTS:

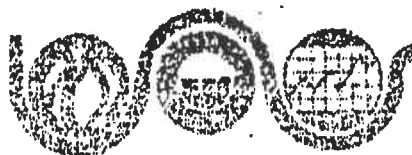
Test results, calculated on the basis of observed flame propagation and the integrated area under the recorded smoke density curve, are presented below. In recognition of possible variations due to limitations of the test method, the results are rounded to the nearest number divisible by five. Data for flame spread and smoke development are shown as solid lines on the computer generated graph at the end of the report.

<u>Test Specimen</u>	<u>FLAMESPREAD INDEX</u>	<u>SMOKE DENSITY</u>
GRC Board	0	0
Red Oak	100	100
Aluminum over EPS	15	80

OBSERVATIONS:

Specimen ignition was recorded at 0.74 minutes with a maximum flame spread distance of 4.2 feet at 4.74 minutes. The maximum temperature recorded during the test was 629°F.

The aluminum covering the EPS stayed in place and prevented the molten foam plastic from entering the test chamber during the 10-minute test duration. There was no afterflame after extinguishment of the tunnel furnace burner.



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E 84 TUNNEL TEST DATA SHEET

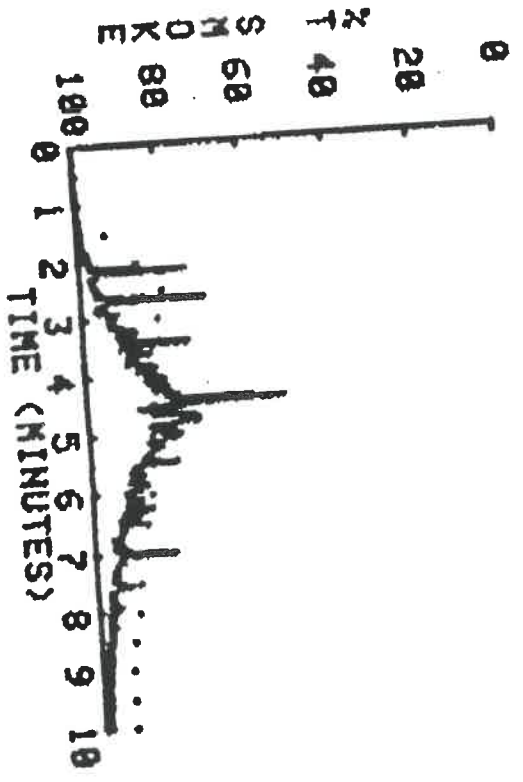
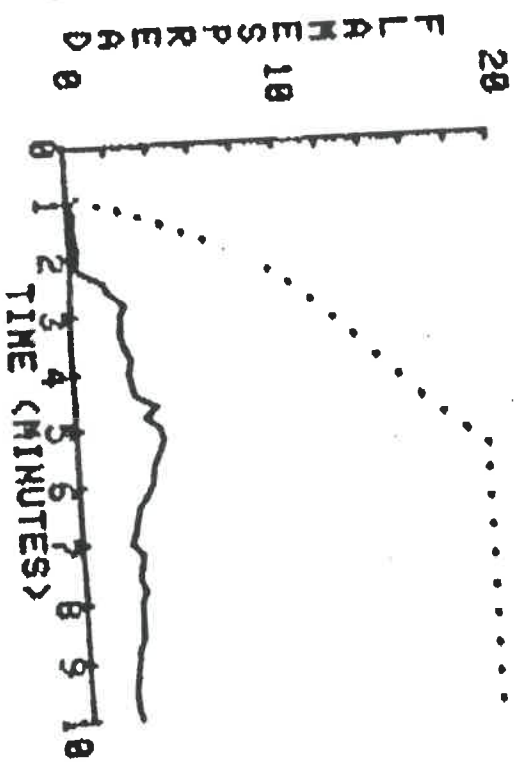
CLIENT: PATIO ENCLOSURES INC.
 TEST NUMBER: 2268-8426
 MATERIAL IDENTIFICATION: ALUMINUM OVER EPS
 DATE: MAY 21, 1991

TEST RESULTS:

TIME TO IGNITION = 0.74 MINUTES
 DISTANCE MAXIMUM SPREAD = 4.2 FEET
 TIME TO MAXIMUM SPREAD = 4.74 MINUTES

FLAME SPREAD INDEX = 15
 FUEL CONTRIBUTED = 10
 SMOKE DEVELOPED INDEX = 80

dotted line = red oak



**"ALL-VIEW" THREE-SEASON ROOMS
FASTENERS COMPOSITE INFO.**

FASTENER DESCRIPTION	EMBEDMENT MATERIAL	ULTIMATE SHEAR LOAD	ULTIMATE PULLOUT LOAD
Tab-to-Hanger Assembly	-----	-----	187 lbs./in.
1/4" dia. x 1-1/2" Lg. Lag Screw	Typ. 2 x 6 Wood \perp to grain	990 lbs.	1283 lbs.
1/4" dia. x 3" Lg. Lag Screw	Typ. 2 x 6 Wood, perpendicular to grain	1980 lbs.	2565 lbs.
1/4" dia. x 1-1/2" Lag Screw w/5/16" O.D. x 1-1/2" Lg. Lag Shield	Concrete Block or Brick	1860 lbs.	1620 lbs.
1/4" dia. x 1" Lg. Nylon Anchors	Concrete Block or Brick	884 lbs.	-----
1/4" dia. x 1-1/4" Lg. Rawl Zamac Nailin	3000 psi concrete	1500 lbs.	960 lbs.
#10 x 2" Wood Screws	Typ. 4 x 4, parallel to grain	940 lbs.	630 lbs.
#10 x 3/4" Wood Screws	Typ. 2 x 4 Wood, perpendicular to grain	470 lbs.	315 lbs.
#8 x 1" Screw	Typ. 2 x 4 Wood, perpendicular to grain	348 lbs.	-----
Corner Column-to-Horiz. Exp. or Header ((2) - #8 x 1/4" TEK)	-----	685 lbs.	-----
Ganging of Units-to-Horiz. Exp. or Header ((2) - #8 x 1/2" TEK)	-----	1315 lbs.	-----
Roof System-to-Header @ I-Beam Locations	-----	-----	685 lbs.
Roof System-to-Panel Cap @ Room Corner, 1/4" x 4" Lag	Panel Cap	-----	378 lbs.
Panel Cap-to-Corner Post. #8 x 1/2" TEK	Corner Post	1325 lbs.	-----
10 D Nail (#10 x 3")	Typ. 2x or 4x Wood, perpendicular to grain	282 lbs.	342 lbs.
10 D Nail (#10 x 3")	Typ. 2x or 4x Wood, parallel to grain	211 lbs.	257 lbs.

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