Form # P 04

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND

BUILDING INSPECTION

PERMIT

Please Read Application And Notes, If Any, Attached

Permit Number: 061807

PERMIT ISSUED

JAN 2 2 2007

CITY OF PORTLAND

This is to certify that BOLES ELIAS J /Homewor Builders

has permission to Reconstruction of fire dama apartme

AT 265 DEERING AVE L 117 A020001

provided that the person or persons rm or tion a epting this permit shall comply with all of the provisions of the Statutes of ine and of the O nances of the City of Portland regulating the construction, maintenance and e of buildings and uctures, and of the application on file in this department.

Apply to Public Works for street line and grade if nature of work requires such information.

ification of inspe on mus e n and w en perm on proc d ore this ilding o rt there s ed or osed-in 4 UR NO REQUIRED.

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

OTHER REQUIRED APPROVALS

Fire Dept. Greg Cass

Health Dept. _____

Appeal Board _____

Other _____
Department Name

1/19/07 Christopher Phillips
Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No:	Issue Date:	CBL:
06-1807		117 A020001

Location of Construction:	Owner Name:	Owner Address:	Phone:
265 DEERING AVE	BOLES ELIAS J	123 WOLFES NECK RD	
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	Homeworks Builders	1039 Riverside St Portland	2076507435
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	**Zone:**
		Alterations - Multi Family	R3

Past Use:	Proposed Use:	Permit Fee:	Cost of Work:	CEO District:
Residential 3 unit Comm	Residential 3 unit reconstruction of fire damaged apartments	$1,820.00	$180,000.00	2

FIRE DEPT: ☑ Approved ☐ Denied

See Conditions

Signature: Greg Cass

INSPECTION:
Use Group: R-2 Type: 5B
IRC - 2003
Signature: 1/19/07

Proposed Project Description:
Reconstruction of fire damaged apartments
Connected to permits 06-1619 & 06-1744

PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)

Action: ☐ Approved ☐ Approved w/Conditions ☐ Denied

Signature: Date:

Permit Taken By:	Date Applied For:
dmartin	12/19/2006

1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.
2. Building permits do not include plumbing, septic or electrical work.
3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..

Zoning Approval

Special Zone or Reviews	Zoning Appeal	Historic Preservation
☐ Shoreland	☐ Variance	☑ Not in District or Landmark
☐ Wetland all interior work	☐ Miscellaneous	☐ Does Not Require Review
☐ Flood Zone	☐ Conditional Use	☐ Requires Review
☐ Subdivision	☐ Interpretation	☐ Approved
☐ Site Plan	☐ Approved	☐ Approved w/Conditions
Maj ☐ Minor ☐ MM ☐	☐ Denied	☐ Denied
Other conditions AGM		AGM
Date: 12/20/06 AGM	Date:	Date:

PERMIT ISSUED
JAN 22 2007
CITY OF PORTLAND

CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT | ADDRESS | DATE | PHONE

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE | DATE | PHONE

City of Portland, Maine - Building or Use Permit

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No:	Date Applied For:	CBL:
06-1807	12/19/2006	117 A020001

Location of Construction:	Owner Name:	Owner Address:	Phone:
265 DEERING AVE	BOLES ELIAS J	123 WOLFES NECK RD	
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	Homeworks Builders	1039 Riverside St Portland	(207) 650-7435
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	
		Alterations - Multi Family	

Proposed Use:	Proposed Project Description:
Residential 3 unit reconstruction of fire damaged apartments	Reconstruction of fire damaged apartments (connected to permits 06-1619 & 06-1744)

Dept: Zoning **Status:** Approved with Conditions **Reviewer:** Ann Machado **Approval Date:** 12/20/2006

Note: **Ok to Issue:** ☑

1) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.
2) This property shall remain a three family dwelling. Any change of use shall require a separate permit application for review and approval.

Dept: Building **Status:** Approved with Conditions **Reviewer:** Chris Hanson **Approval Date:** 01/19/2007

Note: **Ok to Issue:** ☑

1) All penetrations between dwelling units and dwelling units and common areas shall be protected with approved firestop materials, and recessed lighting/vent fixtures shall not reduce the (1 hour) required rating.
2) Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approrval prior to work.
3) Separate permits are required for any electrical, plumbing, or HVAC systems.
Separate plans may need to be submitted for approval as a part of this process.
4) Permit approved based on the plans submitted and reviewed w/owner/contractor, with additional information as agreed on and as noted on plans.
5) Seperate sprinkler permit required
6) There must be a 2" clearance maintained between the chimney and any combustible material, with draft stopping per code at each level
7) Hardwired interconnected battery backup smoke detectors shall be installed in all bedrooms, protecting the bedrooms, and on every level.
8) The design load spec sheets for any engineered beam(s) must be submitted to this office.
9) All floors and walls that separate dwelling units or dwelling units and common areas are required to meet a 1 hour fire rated assembly and sound transmission rating of 45 STC.
10 The attic scuttle opening must be 22" x 30".
11 Fastener schedule per the IRC 2003

Dept: Fire **Status:** Approved with Conditions **Reviewer:** Cptn Greg Cass **Approval Date:** 12/21/2006

Note: **Ok to Issue:** ☑

1) Smoke detectors required in common areas and basement.
2) All construction shall comply with NFPA 101
3) Seperate sprinkler design required.

PERMIT ISSUED
JAN 22 2007
CITY OF PORTLAND

Location of Construction:	Owner Name:	Owner Address:	Phone:
265 DEERING AVE	BOLES ELIAS J	123 WOLFES NECK RD	
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	Homeworks Builders	1039 Riverside St Portland	(207) 650-7435
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	
		Alterations - Multi Family	

Comments:

1/17/2007-csh: Called Aaron wilson @878-1751 with structural ?'s and issues. He will e-mail updated plans to address issues CSH 1/17/07

General Building Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: 265 DEERING AVE		
Total Square Footage of ~~Proposed~~ Structure: EXISTING 3490 SF (4938 SF W/ BASEMENT)	Square Footage of Lot: 6470 SF	
Tax Assessor's Chart, Block & Lot — Chart# 117 Block# 14 Lot# 20,23	Owner: ELIAS BOCES, 123 WOLFS NECK RD, FREEPORT ME 04032	Telephone: 865-3350
Lessee/Buyer's Name (If Applicable): N.A.	Applicant name, address & telephone:	Cost Of Work: $ 180,000.00 Fee: $ 1,820.00 C of O Fee: $

Current Specific use: VACANT
If vacant, what was the previous use? RESIDENTIAL APT.
Proposed Specific use: SAME

Project description: RECONSTRUCTION & REHABILITATION OF FIRE DAMAGED 3-UNIT APARTMENT.

Contractor's name, address & telephone: RON MILLEY, HOMEWORKS BUILDERS, 1039 RIVERSIDE ST. PORTLAND ME 04103
Who should we contact when the permit is ready: RON MILLEY
Mailing address: SEE ABOVE
Phone: 650-7435

Aaron Wilson, Assoc. Design w/ Structural ???
878-1751

Please submit all of the information outlined in the Commercial Application Checklist.
Failure to do so will result in the automatic denial of your permit.

DEPT. OF BUILDING INSPECTION
CITY OF PORTLAND, ME
DEC 18 2006
RECEIVED

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information visit us on-line at www.portlandmaine.gov, stop by the Building Inspections office, room 315 City Hall or call 874-8703.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature of applicant: D. R. Milley **Date:** 12-18-06

This is not a permit; you may not commence ANY work until the permit is issued.

#15341

CITY OF PORTLAND
BUILDING CODE CERTIFICATE
389 Congress St., Room 315
Portland, Maine 04101

TO: Inspector of Buildings City of Portland, Maine
Department of Planning & Urban Development
Division of Housing & Community Service

FROM: AARON S. WILSON, P.E.

RE: Certificate of Design

DATE: 12/15/06

These plans and / or specifications covering construction work on:

BOLES RESIDENCE, 265 DEERING AVE

TO THE BEST OF MY KNOWLEDGE AND BELIEF,
Have been designed and drawn up by the undersigned, a Maine registered Architect / Engineer according to the ***2003 International Building Code*** and local amendments.

AARON S. WILSON (SEAL) NO. 10420 REGISTERED PROFESSIONAL ENGINEER

As per Maine State Law:

$50,000.00 or more in new construction, repair expansion, addition, or modification for Building or Structures, shall be prepared by a registered design Professional.

Signature: [signature]

Title: STRUCTURAL ENGINEER

Firm: ASSOCIATED DESIGN PARTNERS, INC

Address: 980 LEIGHTON RD
FALMOUTH ME 04105

City of Portland, Maine - Building or Use Permit

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

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Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	Homeworks Builders	1039 Riverside St Portland	(207) 650-7435
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	
		Alterations - Multi Family	

Proposed Use:	Proposed Project Description:
Residential 3 unit reconstruction of fire damaged apartments	Reconstruction of fire damaged apartments (connected to permits 06-1619 & 06-1744)

Dept: Zoning **Status:** Approved with Conditions **Reviewer:** Ann Machado **Approval Date:** 12/20/2006

Note: **Ok to Issue:** ☑

1) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.
2) This property shall remain a three family dwelling. Any change of use shall require a separate permit application for review and approval.

Dept: Building **Status:** Open **Reviewer:** Chris Hanson **Approval Date:**

Note: **Ok to Issue:** ☐

Dept: Fire **Status:** Approved with Conditions **Reviewer:** Cptn Greg Cass **Approval Date:** 12/21/2006

Note: **Ok to Issue:** ☑

1) Smoke detectors required in common areas and basement.
2) All construction shall comply with NFPA 101
3) Seperate sprinkler design required.

* Seperate permit for Sprinkler
Add smoke in bedroom
Chimney Clearance
Stairs
Headroom issues bathroom 3rd floor 12/12 area (New plan Show 30 X 30 Area (6-8)
Stove - Clearance above 30" min. (close) Show cross-section
* R-13-Ins. Need R-19 R305.4
Sht. S204 - Framming Issue @ Chimney
LVL - needs header detail
+ Show rafter support.
STC-rating must be shown - 45 between units

FROM DESIGNER: Aaron S. Wilson, P.E.

DATE: 12/15/06

Job Name: Boles Residence

Address of Construction: 265 Deering Ave

2003 International Building Code

Construction project was designed according to the building code criteria listed below:

Building Code and Year IBC 2003 Use Group Classification(s) R-2

Type of Construction VB

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2003 IRC NFPA 13R

Is the Structure mixed use? N if yes, separated or non separated (see Section 302.3) _____

Supervisory alarm system? N Geotechnical/Soils report required?(See Section 1802.2) N

STRUCTURAL DESIGN CALCULATIONS

Y — Submitted for MAIN structural members (106.1, 106.1.1)

STANDARD WOOD FRAME

DESIGN LOADS ON CONSTRUCTION DOCUMENTS (1603)

Uniformly distributed floor live loads *(1603.1.1, 1607)*

Floor Area Use	Loads Shown
RESIDENTIAL APARTMENT	40

Wind loads *(1603.1.4, 1609)*

- 1609.6 — Design option utilized *(1609.1.1, 1609.6)*
- 100 — Basic wind speed *(1609.3)*
- II ; 1.0 — Building category and wind importance factor, I_w *(Table 1604.5, 1609.5)*
- B — Wind exposure category *(1609.4)*
- +/- 0.18 — Internal pressure coefficient *(ASCE 7)*
- +17; -23 psf — Component and cladding pressures *(1609.1.1, 1609.6.2.2)*
- 18 psf — Main force wind pressures *(1609.1.1, 1609.6.2.1)*

Earthquake design data *(1603.1.5, 1614 - 1623)*

- 1617.4 — Design option utilized *(1614.1)*
- I — Seismic use group ("Category") *(Table 1604.5, 1616.2)*
- 0.28/0.16 — Spectral response coefficients, S_{DS} & S_{D1} *(1615.1)*
- D — Site class *(1615.1.5)*

- 0 — Live load reduction *(1603.1.1, 1607.9, 1607.10)*
- 20 — Roof live loads *(1603.1.2, 1607.11)*

Roof snow loads *(1603.1.3, 1608)*

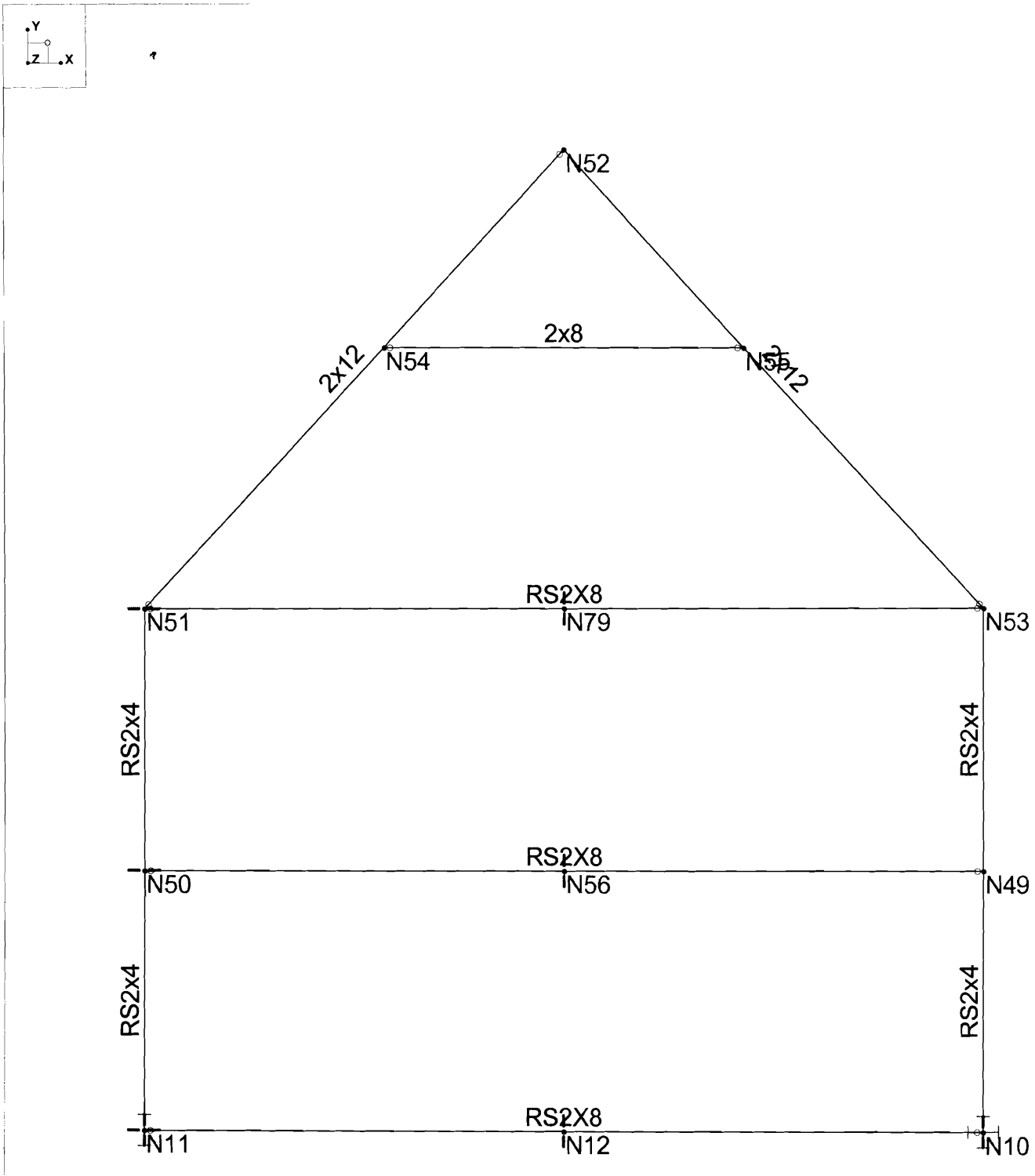
- 60 — Ground snow load, P_g *(1608.2)*
- 46 — If P_g > 10 psf, flat-roof snow load, P_f *(1608.3)*
- 1.0 — If P_g > 10 psf, snow exposure factor, C_e *(Table 1608.3.1)*
- 1.0 — If P_g > 10 psf, snow load importance factor, I_s *(Table 1604.5)*
- 1.1 — Roof thermal factor, C_t *(Table 1608.3.2)*
- 46 — Sloped roof snowload, P_s *(1608.4)*
- B — Seismic design category *(1616.3)*
- 1.K — Basic seismic-force-resisting system *(Table 1617.6.2)*
- 6.5/4 — Response modification coefficient, R_I, and deflection amplification factor, C_d *(Table 1617.6.2)*
- S — Analysis procedure *(1616.6, 1617.5)*
- 2.8K — Design base shear *(1617.4, 1617.5.1)*

Flood loads *(1603.1.6, 1612)*

- NO — Flood hazard area *(1612.3)*
- 50' +/- — Elevation of structure

Other loads

- N.A. — Concentrated loads *(1607.4)*
- 10 — Partition loads *(1607.5)*
- N.A. — Impact loads *(1607.8)*
- N.A. — Misc. loads *(Table 1607.8, 1607.8.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404)*



Solution: Envelope

Associated Design Partner...	BOLES RESIDENCE	
Aaron S. Wilson, P.E.		Dec 15, 2006 at 1:02 PM
06095	BUILDING FRAME - CASE 1	frame1.R3D

Wood Material Properties

	Label	Species	Grade	Cm	Emod	Nu	Therm (\...	Dens[k/ft^3]
1	DF Larch	Douglas Fir-Larch	No.1		1	.3	.3	.035
2	So Pine	Southern Pine	No.1		1	.3	.3	.035
3	SPF	Southern Pine	No.1		1	.3	.3	.035

Wood Design Parameters

	Label	Shape	Length[ft]	le2[ft]	le1[ft]	le-bend to...	le-bend bo...	Kyy	Kzz	CH	Cr	y sway	z sway
1	M43	RS2x4	8	1	Segment	Segment	Segment			1.7	Yes		
2	M44	RS2x4	8	1	Segment	Segment	Segment			1.7	Yes		
3	M45	RS2X8	26	1	Segment	1	2			1.7	Yes		
4	M46	2x12	19.105	1	Segment	1	Segment			1.7	Yes		
5	M47	2x12	19.105	1	Segment	1	Segment			1.7	Yes		
6	M56A	RS2X8	26	1	Segment	1	2			1.7	Yes		
7	M44A	2x8	11.143	4	4	4	4			1.75	Yes		
8	M8	RS2x4	8	1	Segment	Segment	Segment			1.7	Yes		
9	M9	RS2x4	8	1	Segment	Segment	Segment			1.7	Yes		
10	M10	RS2X8	26	1	Segment	1	2			1.7	Yes		

Wood Section Sets

	Label	Shape	Type	Design List	Material	Design Rul...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	2x12	2X12	Beam	Rectangular	SPF	Typical	16.875	3.164	177.979	11.593
2	RS2X8	1.75X7.75FS	Beam	Rectangular	SPF	Typical	13.563	3.461	67.883	11.876
3	RS2x4	1.75X4.25FS	Beam	Rectangular	SPF	Typical	7.438	1.898	11.195	5.628
4	(2)2x12	2-2X12	Beam	Rectangular Double	SPF	Typical	33.75	25.313	355.957	84.247
5	2x8	2X8	Beam	Rectangular	SPF	Typical	10.875	2.039	47.635	7.093

Member Primary Data

	Label	I Joint	J Joint	K Joint Rot...	Section/Shape	Type	Design List	Material	Design Rules
1	M43	N49	N53		RS2x4	Beam	Rectangular	SPF	Typical
2	M44	N50	N51		RS2x4	Beam	Rectangular	SPF	Typical
3	M45	N49	N50		RS2X8	Beam	Rectangular	SPF	Typical
4	M46	N51	N52		2x12	Beam	Rectangular	SPF	Typical
5	M47	N53	N52		2x12	Beam	Rectangular	SPF	Typical
6	M56A	N53	N51		RS2X8	Beam	Rectangular	SPF	Typical
7	M44A	N54	N55		2x8	Beam	Rectangular	SPF	Typical
8	M8	N10	N49		RS2x4	Beam	Rectangular	SPF	Typical
9	M9	N11	N50		RS2x4	Beam	Rectangular	SPF	Typical
10	M10	N10	N11		RS2X8	Beam	Rectangular	SPF	Typical

Member Distributed Loads (BLC 1 : DL)

	Member Label	Direction	Start Magnitude[k/ft,d...	End Magnitude[k/ft,d...	Start Location[ft,%]	End Location[ft,%]
1	M45	Y	-.02	-.02	0	0
2	M46	Y	-.013	-.013	0	0
3	M47	Y	-.013	-.013	0	0
4	M56A	Y	-.02	-.02	0	0
5	M10	Y	-.02	-.02	0	0

Member Distributed Loads (BLC 2 : SL)

	Member Label	Direction	Start Magnitude[k/ft,d...	End Magnitude[k/ft,d...	Start Location[ft,%]	End Location[ft,%]
1	M46	V	-.061	-.061	0	0
2	M47	V	-.061	-.061	0	0

Member Distributed Loads (BLC 3 : SL(UNBAL)1)

	Member Label	Direction	Start Magnitude[k/ft,d...	End Magnitude[k/ft,d...	Start Location[ft,%]	End Location[ft,%]
1	M46	V	-.092	-.092	0	0

Member Distributed Loads (BLC 4 : LL)

	Member Label	Direction	Start Magnitude[k/ft,d...	End Magnitude[k/ft,d...	Start Location[ft,%]	End Location[ft,%]
1	M45	Y	-.053	-.053	0	0
2	M56A	Y	-.053	-.053	0	0
3	M10	Y	-.053	-.053	0	0

Member Distributed Loads (BLC 5 : WL)

	Member Label	Direction	Start Magnitude[k/ft,d...	End Magnitude[k/ft,d...	Start Location[ft,%]	End Location[ft,%]
1	M46	X	-.036	-.036	0	0
2	M44	X	-.036	-.036	0	0
3	M9	X	-.036	-.036	0	0
4	M47	X	-.036	-.036	0	0
5	M43	X	-.036	-.036	0	0
6	M8	X	-.036	-.036	0	0

Load Combinations

	Description	Sol...	PD...	SR...	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
1	DL	Yes			1	1														
2	SL	Yes			2	1														
3	DL+SL	Yes			1	1	2	1												
4	DL+SLUNBAL1	Yes			1	1	3	1												
5	DL+SLUNBAL2	Yes			1	1	5	1												
6	DL+SL+LL	Yes			1	1	2	.75	4	.75										
7	DL+SLUNBAL1+LL	Yes			1	1	3	.75	4	.75										
8	DL+SLUNBAL2+LL	Yes			1	1	5	.75	4	.75										
9	DL+LL	Yes			1	1	4	1												
10	DL+WL	Yes			1	.6	5	1												
11	DL+SL+WL	Yes			1	1	3	.75	5	.75										
12	DL+SL+WL+LL	Yes			1	1	3	.75	4	.75	5	.75								

Envelope Joint Reactions

	Joint		X [k]	lc	Y [k]	lc	Z [k]	lc	MX [k-ft]	lc	MY [k-ft]	lc	MZ [k-ft]	lc
1	N49	max	0	1	0	1	0	1	0	1	0	1	0	1
2		min	0	1	0	1	0	1	0	1	0	1	0	1
3	N50	max	.72	10	0	1	0	1	0	1	0	1	0	1
4		min	0	3	0	1	0	1	0	1	0	1	0	1
5	N51	max	1.592	5	0	1	0	1	0	1	0	1	0	1
6		min	0	9	0	1	0	1	0	1	0	1	0	1
7	N53	max	0	1	0	1	0	1	0	1	0	1	0	1
8		min	0	1	0	1	0	1	0	1	0	1	0	1
9	N56	max	0	1	1.241	9	0	1	0	1	0	1	0	1
10		min	0	1	.001	2	0	1	0	1	0	1	0	1
11	N79	max	0	1	1.242	9	0	1	0	1	0	1	0	1
12		min	0	1	.002	2	0	1	0	1	0	1	0	1
13	N10	max	0	1	1.884	6	0	1	0	1	0	1	0	1
14		min	0	1	.056	10	0	1	0	1	0	1	0	1
15	N11	max	.216	5	2.24	12	0	1	0	1	0	1	0	1
16		min	0	1	.71	1	0	1	0	1	0	1	0	1
17	N12	max	0	1	1.24	9	0	1	0	1	0	1	0	1
18		min	0	1	0	2	0	1	0	1	0	1	0	1
19	Totals:	max	2.528	5	6.848	6	0	1						
20		min	0	4	1.535	10	0	1						

Envelope Member Section Forces

	Member	Sec		Axial[k]	lc	y Shear[k]	lc	z Shear[k]	lc	Torque[k-ft]	lc	y-y Momen...	lc	z-z Momen...	lc
1	M43	1	max	1.261	3	0	3	0	1	0	1	0	1	.003	3
2			min	-.089	10	-.18	10	0	1	0	1	0	1	-.288	10
3		2	max	1.26	3	0	3	0	1	0	1	0	1	.003	3
4			min	-.09	10	-.165	10	0	1	0	1	0	1	-.215	10
5		3	max	1.259	3	0	3	0	1	0	1	0	1	.003	3
6			min	-.09	10	-.15	10	0	1	0	1	0	1	-.149	10
7		4	max	1.258	3	0	3	0	1	0	1	0	1	.002	3
8			min	-.09	10	-.134	10	0	1	0	1	0	1	-.089	10
9		5	max	1.258	3	0	3	0	1	0	1	0	1	.002	3
10			min	-.091	10	-.119	10	0	1	0	1	0	1	-.036	10
11		6	max	1.257	3	0	3	0	1	0	1	0	1	.012	5
12			min	-.091	10	-.104	10	0	1	0	1	0	1	0	9
13		7	max	1.256	3	0	3	0	1	0	1	0	1	.052	5
14			min	-.092	10	-.089	10	0	1	0	1	0	1	0	9
15		8	max	1.255	3	0	3	0	1	0	1	0	1	.087	5
16			min	-.092	10	-.074	10	0	1	0	1	0	1	0	9
17		9	max	1.255	3	0	3	0	1	0	1	0	1	.114	5
18			min	-.093	10	-.059	10	0	1	0	1	0	1	0	9
19		10	max	1.254	3	0	3	0	1	0	1	0	1	.136	5
20			min	-.093	10	-.044	10	0	1	0	1	0	1	0	9
21		11	max	1.253	3	0	3	0	1	0	1	0	1	.151	5
22			min	-.094	10	-.028	10	0	1	0	1	0	1	0	9
23		12	max	1.252	3	0	3	0	1	0	1	0	1	.16	5
24			min	-.094	10	-.013	10	0	1	0	1	0	1	0	1
25		13	max	1.252	3	.002	5	0	1	0	1	0	1	.162	5
26			min	-.095	10	0	9	0	1	0	1	0	1	0	1
27		14	max	1.251	3	.017	5	0	1	0	1	0	1	.158	5
28			min	-.095	10	0	9	0	1	0	1	0	1	0	1
29		15	max	1.25	3	.032	5	0	1	0	1	0	1	.148	5
30			min	-.095	10	0	9	0	1	0	1	0	1	0	1
31		16	max	1.249	3	.047	5	0	1	0	1	0	1	.131	5
32			min	-.096	10	0	9	0	1	0	1	0	1	0	1
33		17	max	1.248	3	.063	5	0	1	0	1	0	1	.108	5
34			min	-.096	10	0	9	0	1	0	1	0	1	0	1
35		18	max	1.248	3	.078	5	0	1	0	1	0	1	.078	5
36			min	-.097	10	0	9	0	1	0	1	0	1	0	1
37		19	max	1.247	3	.093	5	0	1	0	1	0	1	.042	5
38			min	-.097	10	0	9	0	1	0	1	0	1	0	1
39		20	max	1.246	3	.108	5	0	1	0	1	0	1	0	1
40			min	-.098	10	0	9	0	1	0	1	0	1	0	1
41	M44	1	max	1.612	12	0	1	0	1	0	1	0	1	0	1
42			min	.469	1	-.18	5	0	1	0	1	0	1	-.288	5
43		2	max	1.611	12	0	1	0	1	0	1	0	1	0	1
44			min	.468	1	-.165	5	0	1	0	1	0	1	-.215	5
45		3	max	1.611	12	0	1	0	1	0	1	0	1	0	1
46			min	.467	1	-.15	5	0	1	0	1	0	1	-.149	5
47		4	max	1.61	12	0	1	0	1	0	1	0	1	0	1
48			min	.466	1	-.134	5	0	1	0	1	0	1	-.089	5
49		5	max	1.609	12	0	1	0	1	0	1	0	1	0	1
50			min	.466	1	-.119	5	0	1	0	1	0	1	-.036	5
51		6	max	1.608	12	0	1	0	1	0	1	0	1	.011	10
52			min	.465	1	-.104	5	0	1	0	1	0	1	0	1
53		7	max	1.607	12	0	1	0	1	0	1	0	1	.052	10
54			min	.464	1	-.089	5	0	1	0	1	0	1	0	1
55		8	max	1.607	12	0	1	0	1	0	1	0	1	.086	10
56			min	.463	1	-.074	5	0	1	0	1	0	1	0	1

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	lc	y Shear[k]	lc	z Shear[k]	lc	Torque[k-ft]	lc	y-y Momen...	lc	z-z Momen...	lc
57		9	max	1.606	12	0	1	0	1	0	1	0	1	.114	10
58			min	.463	1	-.059	5	0	1	0	1	0	1	0	1
59		10	max	1.605	12	0	1	0	1	0	1	0	1	.136	10
60			min	.462	1	-.044	5	0	1	0	1	0	1	0	1
61		11	max	1.604	12	0	1	0	1	0	1	0	1	.151	10
62			min	.461	1	-.028	5	0	1	0	1	0	1	0	1
63		12	max	1.604	12	0	1	0	1	0	1	0	1	.16	10
64			min	.46	1	-.013	5	0	1	0	1	0	1	0	1
65		13	max	1.603	12	.002	5	0	1	0	1	0	1	.162	10
66			min	.46	1	0	1	0	1	0	1	0	1	0	1
67		14	max	1.602	12	.017	5	0	1	0	1	0	1	.158	10
68			min	.459	1	0	1	0	1	0	1	0	1	0	1
69		15	max	1.601	12	.032	5	0	1	0	1	0	1	.148	5
70			min	.458	1	0	1	0	1	0	1	0	1	0	1
71		16	max	1.601	12	.047	5	0	1	0	1	0	1	.131	5
72			min	.457	1	0	1	0	1	0	1	0	1	0	1
73		17	max	1.6	12	.063	5	0	1	0	1	0	1	.108	10
74			min	.457	1	0	1	0	1	0	1	0	1	0	1
75		18	max	1.599	12	.078	5	0	1	0	1	0	1	.078	10
76			min	.456	1	0	1	0	1	0	1	0	1	0	1
77		19	max	1.598	12	.093	5	0	1	0	1	0	1	.042	10
78			min	.455	1	0	1	0	1	0	1	0	1	0	1
79		20	max	1.598	12	.108	5	0	1	0	1	0	1	0	1
80			min	.454	1	0	1	0	1	0	1	0	1	0	1
81	M45	1	max	.36	10	.371	9	0	1	0	1	0	1	0	1
82			min	0	3	0	2	0	1	0	1	0	1	0	1
83		2	max	.36	10	.267	9	0	1	0	1	0	1	0	2
84			min	0	3	0	2	0	1	0	1	0	1	-.436	9
85		3	max	.36	10	.162	9	0	1	0	1	0	1	.001	2
86			min	0	3	0	2	0	1	0	1	0	1	-.73	9
87		4	max	.36	10	.058	9	0	1	0	1	0	1	.002	2
88			min	0	3	0	2	0	1	0	1	0	1	-.881	9
89		5	max	.36	10	0	2	0	1	0	1	0	1	.003	2
90			min	0	3	-.046	9	0	1	0	1	0	1	-.889	9
91		6	max	.36	10	0	2	0	1	0	1	0	1	.004	2
92			min	0	3	-.151	9	0	1	0	1	0	1	-.754	9
93		7	max	.36	10	0	2	0	1	0	1	0	1	.004	2
94			min	0	3	-.255	9	0	1	0	1	0	1	-.476	9
95		8	max	.36	10	0	2	0	1	0	1	0	1	.005	2
96			min	0	3	-.36	9	0	1	0	1	0	1	-.055	9
97		9	max	.36	10	0	2	0	1	0	1	0	1	.508	9
98			min	0	3	-.464	9	0	1	0	1	0	1	.006	2
99		10	max	.36	10	0	2	0	1	0	1	0	1	1.215	9
100			min	0	3	-.568	9	0	1	0	1	0	1	.007	2
101		11	max	.36	10	.568	9	0	1	0	1	0	1	1.215	9
102			min	0	3	0	2	0	1	0	1	0	1	.007	2
103		12	max	.36	10	.464	9	0	1	0	1	0	1	.508	9
104			min	0	3	0	2	0	1	0	1	0	1	.006	2
105		13	max	.36	10	.36	9	0	1	0	1	0	1	.005	2
106			min	0	3	0	2	0	1	0	1	0	1	-.055	9
107		14	max	.36	10	.255	9	0	1	0	1	0	1	.004	2
108			min	0	3	0	2	0	1	0	1	0	1	-.476	9
109		15	max	.36	10	.151	9	0	1	0	1	0	1	.004	2
110			min	0	3	0	2	0	1	0	1	0	1	-.754	9
111		16	max	.36	10	.046	9	0	1	0	1	0	1	.003	2
112			min	0	3	0	2	0	1	0	1	0	1	-.889	9
113		17	max	.36	10	0	2	0	1	0	1	0	1	.002	2

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	lc	y Shear[k]	lc	z Shear[k]	lc	Torque[k-ft]	lc	y-y Momen...	lc	z-z Momen...	lc
114			min	0	3	-.058	9	0	1	0	1	0	1	-.881	9
115		18	max	.36	10	0	2	0	1	0	1	0	1	.001	2
116			min	0	3	-.162	9	0	1	0	1	0	1	-.73	9
117		19	max	.36	10	0	2	0	1	0	1	0	1	0	2
118			min	0	3	-.267	9	0	1	0	1	0	1	-.436	9
119		20	max	.36	10	0	2	0	1	0	1	0	1	0	1
120			min	0	3	-.371	9	0	1	0	1	0	1	0	1
121	M46	1	max	1.684	12	.35	4	0	1	0	1	0	1	0	1
122			min	.418	9	-.222	10	0	1	0	1	0	1	0	1
123		2	max	1.618	12	.296	4	0	1	0	1	0	1	.214	10
124			min	.405	9	-.203	10	0	1	0	1	0	1	-.325	4
125		3	max	1.552	12	.241	4	0	1	0	1	0	1	.408	10
126			min	.393	9	-.183	10	0	1	0	1	0	1	-.595	4
127		4	max	1.487	12	.187	4	0	1	0	1	0	1	.583	10
128			min	.38	9	-.164	10	0	1	0	1	0	1	-.81	4
129		5	max	1.421	12	.132	4	0	1	0	1	0	1	.738	10
130			min	.367	9	-.144	10	0	1	0	1	0	1	-.97	4
131		6	max	1.355	12	.078	4	0	1	0	1	0	1	.873	10
132			min	.355	9	-.128	5	0	1	0	1	0	1	-1.076	4
133		7	max	1.29	12	.023	4	0	1	0	1	0	1	.989	10
134			min	.342	9	-.113	5	0	1	0	1	0	1	-1.126	4
135		8	max	1.224	12	-.03	1	0	1	0	1	0	1	1.085	10
136			min	.33	9	-.103	3	0	1	0	1	0	1	-1.122	4
137		9	max	1.158	12	-.042	1	0	1	0	1	0	1	1.162	10
138			min	.317	9	-.143	3	0	1	0	1	0	1	-1.063	4
139		10	max	1.093	12	-.047	10	0	1	0	1	0	1	1.221	5
140			min	.304	9	-.183	3	0	1	0	1	0	1	-.949	4
141		11	max	1.027	12	-.027	10	0	1	0	1	0	1	1.282	5
142			min	.292	9	-.223	3	0	1	0	1	0	1	-.781	4
143		12	max	.634	11	.211	3	0	1	0	1	0	1	1.308	5
144			min	.131	9	.061	1	0	1	0	1	0	1	-.614	4
145		13	max	.568	11	.171	3	0	1	0	1	0	1	1.197	5
146			min	.118	9	.05	1	0	1	0	1	0	1	-.729	4
147		14	max	.523	5	.133	5	0	1	0	1	0	1	1.071	5
148			min	.106	9	.033	4	0	1	0	1	0	1	-.789	4
149		15	max	.485	5	.148	5	0	1	0	1	0	1	.935	10
150			min	.093	9	-.022	4	0	1	0	1	0	1	-.795	4
151		16	max	.448	5	.163	5	0	1	0	1	0	1	.788	10
152			min	.08	9	-.076	4	0	1	0	1	0	1	-.745	4
153		17	max	.411	5	.177	5	0	1	0	1	0	1	.62	10
154			min	.042	4	-.131	4	0	1	0	1	0	1	-.641	4
155		18	max	.374	5	.196	10	0	1	0	1	0	1	.433	10
156			min	-.017	4	-.185	4	0	1	0	1	0	1	-.482	4
157		19	max	.337	5	.215	10	0	1	0	1	0	1	.226	10
158			min	-.076	4	-.24	4	0	1	0	1	0	1	-.269	4
159		20	max	.299	5	.235	10	0	1	0	1	0	1	0	1
160			min	-.135	4	-.294	4	0	1	0	1	0	1	0	1
161	M47	1	max	1.383	3	.302	5	0	1	0	1	0	1	0	1
162			min	-.487	10	-.057	4	0	1	0	1	0	1	0	1
163		2	max	1.34	3	.264	5	0	1	0	1	0	1	.063	4
164			min	-.47	10	-.068	4	0	1	0	1	0	1	-.285	5
165		3	max	1.297	3	.226	5	0	1	0	1	0	1	.137	4
166			min	-.453	10	-.08	4	0	1	0	1	0	1	-.531	5
167		4	max	1.253	3	.188	5	0	1	0	1	0	1	.224	4
168			min	-.436	10	-.092	4	0	1	0	1	0	1	-.739	5
169		5	max	1.21	3	.149	5	0	1	0	1	0	1	.322	4
170			min	-.419	10	-.103	4	0	1	0	1	0	1	-.909	5

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	lc	y Shear[k]	lc	z Shear[k]	lc	Torque[k-ft]	lc	y-y Momen...	lc	z-z Momen...	lc
171		6	max	1.167	3	.114	10	0	1	0	1	0	1	.432	4
172			min	-.402	10	-.115	4	0	1	0	1	0	1	-1.04	5
173		7	max	1.124	3	.08	10	0	1	0	1	0	1	.553	4
174			min	-.385	10	-.127	4	0	1	0	1	0	1	-1.132	5
175		8	max	1.081	3	.047	10	0	1	0	1	0	1	.687	4
176			min	-.368	10	-.138	4	0	1	0	1	0	1	-1.186	5
177		9	max	1.037	3	.013	10	0	1	0	1	0	1	.832	4
178			min	-.351	10	-.15	4	0	1	0	1	0	1	-1.202	5
179		10	max	.994	3	-.02	10	0	1	0	1	0	1	.989	4
180			min	-.334	10	-.183	3	0	1	0	1	0	1	-1.182	10
181		11	max	.951	3	-.054	10	0	1	0	1	0	1	1.157	4
182			min	-.317	10	-.223	3	0	1	0	1	0	1	-1.144	10
183		12	max	.448	3	.211	3	0	1	0	1	0	1	1.282	4
184			min	-.392	10	0	10	0	1	0	1	0	1	-1.086	10
185		13	max	.405	3	.194	4	0	1	0	1	0	1	1.08	4
186			min	-.375	10	-.034	10	0	1	0	1	0	1	-1.068	10
187		14	max	.379	4	.183	4	0	1	0	1	0	1	.891	4
188			min	-.358	10	-.068	10	0	1	0	1	0	1	-1.017	10
189		15	max	.367	4	.171	4	0	1	0	1	0	1	.713	4
190			min	-.341	10	-.101	10	0	1	0	1	0	1	-.938	5
191		16	max	.354	4	.159	4	0	1	0	1	0	1	.547	4
192			min	-.324	10	-.135	10	0	1	0	1	0	1	-.827	5
193		17	max	.341	4	.148	4	0	1	0	1	0	1	.392	4
194			min	-.307	10	-.169	10	0	1	0	1	0	1	-.678	5
195		18	max	.329	4	.136	4	0	1	0	1	0	1	.25	4
196			min	-.29	10	-.206	5	0	1	0	1	0	1	-.49	5
197		19	max	.316	4	.124	4	0	1	0	1	0	1	.119	4
198			min	-.273	10	-.244	5	0	1	0	1	0	1	-.264	5
199		20	max	.304	4	.113	4	0	1	0	1	0	1	0	1
200			min	-.255	10	-.282	5	0	1	0	1	0	1	0	1
201	M56A	1	max	.646	10	.371	9	0	1	0	1	0	1	0	1
202			min	-.81	3	-.001	2	0	1	0	1	0	1	0	1
203		2	max	.646	10	.266	9	0	1	0	1	0	1	.001	2
204			min	-.81	3	-.001	2	0	1	0	1	0	1	-.436	9
205		3	max	.646	10	.162	9	0	1	0	1	0	1	.003	2
206			min	-.81	3	-.001	2	0	1	0	1	0	1	-.729	9
207		4	max	.646	10	.057	9	0	1	0	1	0	1	.004	2
208			min	-.81	3	-.001	2	0	1	0	1	0	1	-.879	9
209		5	max	.646	10	-.001	2	0	1	0	1	0	1	.006	2
210			min	-.81	3	-.047	9	0	1	0	1	0	1	-.886	9
211		6	max	.646	10	-.001	2	0	1	0	1	0	1	.007	2
212			min	-.81	3	-.151	9	0	1	0	1	0	1	-.75	9
213		7	max	.646	10	-.001	2	0	1	0	1	0	1	.009	2
214			min	-.81	3	-.256	9	0	1	0	1	0	1	-.472	9
215		8	max	.646	10	-.001	2	0	1	0	1	0	1	.01	2
216			min	-.81	3	-.36	9	0	1	0	1	0	1	-.05	9
217		9	max	.646	10	-.001	2	0	1	0	1	0	1	.514	9
218			min	-.81	3	-.465	9	0	1	0	1	0	1	.012	2
219		10	max	.646	10	-.001	2	0	1	0	1	0	1	1.221	9
220			min	-.81	3	-.569	9	0	1	0	1	0	1	.013	2
221		11	max	.646	10	.569	9	0	1	0	1	0	1	1.221	9
222			min	-.81	3	.001	2	0	1	0	1	0	1	.013	2
223		12	max	.646	10	.465	9	0	1	0	1	0	1	.514	9
224			min	-.81	3	.001	2	0	1	0	1	0	1	.012	2
225		13	max	.646	10	.36	9	0	1	0	1	0	1	.01	2
226			min	-.81	3	.001	2	0	1	0	1	0	1	-.05	9
227		14	max	.646	10	.256	9	0	1	0	1	0	1	.009	2

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	lc	y Shear[k]	lc	z Shear[k]	lc	Torque[k-ft]	lc	y-y Momen...	lc	z-z Momen...	lc
228			min	-.81	3	.001	2	0	1	0	1	0	1	-.472	9
229		15	max	.646	10	.151	9	0	1	0	1	0	1	.007	2
230			min	-.81	3	.001	2	0	1	0	1	0	1	-.75	9
231		16	max	.646	10	.047	9	0	1	0	1	0	1	.006	2
232			min	-.81	3	.001	2	0	1	0	1	0	1	-.886	9
233		17	max	.646	10	.001	2	0	1	0	1	0	1	.004	2
234			min	-.81	3	-.057	9	0	1	0	1	0	1	-.879	9
235		18	max	.646	10	.001	2	0	1	0	1	0	1	.003	2
236			min	-.81	3	-.162	9	0	1	0	1	0	1	-.729	9
237		19	max	.646	10	.001	2	0	1	0	1	0	1	.001	2
238			min	-.81	3	-.266	9	0	1	0	1	0	1	-.436	9
239		20	max	.646	10	.001	2	0	1	0	1	0	1	0	1
240			min	-.81	3	-.371	9	0	1	0	1	0	1	0	1
241	M44A	1	max	.66	3	.015	5	0	1	0	1	0	1	0	1
242			min	.126	10	0	2	0	1	0	1	0	1	0	1
243		2	max	.66	3	.013	5	0	1	0	1	0	1	0	2
244			min	.126	10	0	2	0	1	0	1	0	1	-.008	5
245		3	max	.66	3	.012	5	0	1	0	1	0	1	0	2
246			min	.126	10	0	2	0	1	0	1	0	1	-.015	5
247		4	max	.66	3	.01	5	0	1	0	1	0	1	0	2
248			min	.126	10	0	2	0	1	0	1	0	1	-.022	5
249		5	max	.66	3	.009	5	0	1	0	1	0	1	0	2
250			min	.126	10	0	2	0	1	0	1	0	1	-.027	5
251		6	max	.66	3	.007	5	0	1	0	1	0	1	0	2
252			min	.126	10	0	2	0	1	0	1	0	1	-.032	5
253		7	max	.66	3	.005	5	0	1	0	1	0	1	0	2
254			min	.126	10	0	2	0	1	0	1	0	1	-.035	5
255		8	max	.66	3	.004	5	0	1	0	1	0	1	0	2
256			min	.126	10	0	2	0	1	0	1	0	1	-.038	5
257		9	max	.66	3	.002	5	0	1	0	1	0	1	0	2
258			min	.126	10	0	2	0	1	0	1	0	1	-.04	5
259		10	max	.66	3	0	5	0	1	0	1	0	1	0	2
260			min	.126	10	0	2	0	1	0	1	0	1	-.041	5
261		11	max	.66	3	0	2	0	1	0	1	0	1	0	2
262			min	.126	10	0	4	0	1	0	1	0	1	-.041	5
263		12	max	.66	3	0	2	0	1	0	1	0	1	0	2
264			min	.126	10	-.002	4	0	1	0	1	0	1	-.04	5
265		13	max	.66	3	0	2	0	1	0	1	0	1	0	2
266			min	.126	10	-.004	4	0	1	0	1	0	1	-.038	5
267		14	max	.66	3	0	2	0	1	0	1	0	1	0	2
268			min	.126	10	-.005	4	0	1	0	1	0	1	-.035	5
269		15	max	.66	3	0	2	0	1	0	1	0	1	0	2
270			min	.126	10	-.007	4	0	1	0	1	0	1	-.032	5
271		16	max	.66	3	0	2	0	1	0	1	0	1	0	2
272			min	.126	10	-.009	4	0	1	0	1	0	1	-.027	5
273		17	max	.66	3	0	2	0	1	0	1	0	1	0	2
274			min	.126	10	-.01	4	0	1	0	1	0	1	-.022	5
275		18	max	.66	3	0	2	0	1	0	1	0	1	0	2
276			min	.126	10	-.012	4	0	1	0	1	0	1	-.015	5
277		19	max	.66	3	0	2	0	1	0	1	0	1	0	2
278			min	.126	10	-.013	4	0	1	0	1	0	1	-.008	5
279		20	max	.66	3	0	2	0	1	0	1	0	1	0	1
280			min	.126	10	-.015	4	0	1	0	1	0	1	0	1
281	M8	1	max	1.577	6	0	1	0	1	0	1	0	1	0	1
282			min	-.013	10	-.108	5	0	1	0	1	0	1	0	1
283		2	max	1.576	6	0	1	0	1	0	1	0	1	.042	5
284			min	-.013	10	-.093	5	0	1	0	1	0	1	0	1

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	lc	y Shear[k]	lc	z Shear[k]	lc	Torque[k-ft]	lc	y-y Momen...	lc	z-z Momen...	lc
285		3	max	1.575	6	0	1	0	1	0	1	0	1	.078	5
286			min	-.013	10	-.078	5	0	1	0	1	0	1	0	1
287		4	max	1.575	6	0	1	0	1	0	1	0	1	.108	5
288			min	-.014	10	-.063	5	0	1	0	1	0	1	0	1
289		5	max	1.574	6	0	1	0	1	0	1	0	1	.131	5
290			min	-.014	10	-.047	5	0	1	0	1	0	1	0	1
291		6	max	1.573	6	0	1	0	1	0	1	0	1	.148	5
292			min	-.015	10	-.032	5	0	1	0	1	0	1	0	1
293		7	max	1.572	6	0	1	0	1	0	1	0	1	.158	5
294			min	-.015	10	-.017	5	0	1	0	1	0	1	0	1
295		8	max	1.571	6	0	1	0	1	0	1	0	1	.162	5
296			min	-.016	10	-.002	5	0	1	0	1	0	1	0	1
297		9	max	1.571	6	.013	10	0	1	0	1	0	1	.16	5
298			min	-.016	10	0	3	0	1	0	1	0	1	0	1
299		10	max	1.57	6	.028	10	0	1	0	1	0	1	.151	5
300			min	-.017	10	0	3	0	1	0	1	0	1	0	1
301		11	max	1.569	6	.044	10	0	1	0	1	0	1	.136	5
302			min	-.017	10	0	3	0	1	0	1	0	1	0	1
303		12	max	1.568	6	.059	10	0	1	0	1	0	1	.114	5
304			min	-.018	10	0	3	0	1	0	1	0	1	0	1
305		13	max	1.568	6	.074	10	0	1	0	1	0	1	.087	5
306			min	-.018	10	0	3	0	1	0	1	0	1	0	1
307		14	max	1.567	6	.089	10	0	1	0	1	0	1	.052	5
308			min	-.018	10	0	3	0	1	0	1	0	1	0	1
309		15	max	1.566	6	.104	10	0	1	0	1	0	1	.012	5
310			min	-.019	10	0	3	0	1	0	1	0	1	0	1
311		16	max	1.565	6	.119	10	0	1	0	1	0	1	.002	3
312			min	-.019	10	0	3	0	1	0	1	0	1	-.036	10
313		17	max	1.565	6	.134	10	0	1	0	1	0	1	.002	3
314			min	-.02	10	0	3	0	1	0	1	0	1	-.089	10
315		18	max	1.564	6	.15	10	0	1	0	1	0	1	.003	3
316			min	-.02	10	0	3	0	1	0	1	0	1	-.149	10
317		19	max	1.563	6	.165	10	0	1	0	1	0	1	.003	3
318			min	-.021	10	0	3	0	1	0	1	0	1	-.215	10
319		20	max	1.562	6	.18	10	0	1	0	1	0	1	.003	3
320			min	-.021	10	0	3	0	1	0	1	0	1	-.288	10
321	M9	1	max	1.933	12	0	1	0	1	0	1	0	1	0	1
322			min	.596	1	-.108	5	0	1	0	1	0	1	0	1
323		2	max	1.932	12	0	1	0	1	0	1	0	1	.042	5
324			min	.596	1	-.093	5	0	1	0	1	0	1	0	1
325		3	max	1.931	12	0	1	0	1	0	1	0	1	.078	5
326			min	.595	1	-.078	5	0	1	0	1	0	1	0	1
327		4	max	1.931	12	0	1	0	1	0	1	0	1	.108	5
328			min	.594	1	-.063	5	0	1	0	1	0	1	0	1
329		5	max	1.93	12	0	1	0	1	0	1	0	1	.131	5
330			min	.593	1	-.047	5	0	1	0	1	0	1	0	1
331		6	max	1.929	12	0	1	0	1	0	1	0	1	.148	5
332			min	.593	1	-.032	5	0	1	0	1	0	1	0	1
333		7	max	1.928	12	0	1	0	1	0	1	0	1	.158	5
334			min	.592	1	-.017	5	0	1	0	1	0	1	0	1
335		8	max	1.928	12	0	1	0	1	0	1	0	1	.162	5
336			min	.591	1	-.002	5	0	1	0	1	0	1	0	1
337		9	max	1.927	12	.013	5	0	1	0	1	0	1	.16	5
338			min	.59	1	0	1	0	1	0	1	0	1	0	1
339		10	max	1.926	12	.028	5	0	1	0	1	0	1	.151	5
340			min	.59	1	0	1	0	1	0	1	0	1	0	1
341		11	max	1.925	12	.044	5	0	1	0	1	0	1	.136	5

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	lc	y Shear[k]	lc	z Shear[k]	lc	Torque[k-ft]	lc	y-y Momen...	lc	z-z Momen...	lc
342			min	.589	1	0	1	0	1	0	1	0	1	0	1
343		12	max	1.924	12	.059	5	0	1	0	1	0	1	.114	5
344			min	.588	1	0	1	0	1	0	1	0	1	0	1
345		13	max	1.924	12	.074	5	0	1	0	1	0	1	.086	5
346			min	.587	1	0	1	0	1	0	1	0	1	0	1
347		14	max	1.923	12	.089	5	0	1	0	1	0	1	.052	5
348			min	.586	1	0	1	0	1	0	1	0	1	0	1
349		15	max	1.922	12	.104	5	0	1	0	1	0	1	.011	5
350			min	.586	1	0	1	0	1	0	1	0	1	0	1
351		16	max	1.921	12	.119	5	0	1	0	1	0	1	0	1
352			min	.585	1	0	1	0	1	0	1	0	1	-.036	5
353		17	max	1.921	12	.134	5	0	1	0	1	0	1	0	1
354			min	.584	1	0	1	0	1	0	1	0	1	-.089	5
355		18	max	1.92	12	.15	5	0	1	0	1	0	1	0	1
356			min	.583	1	0	1	0	1	0	1	0	1	-.149	5
357		19	max	1.919	12	.165	5	0	1	0	1	0	1	0	1
358			min	.583	1	0	1	0	1	0	1	0	1	-.215	5
359		20	max	1.918	12	.18	5	0	1	0	1	0	1	0	1
360			min	.582	1	0	1	0	1	0	1	0	1	-.288	5
361	M10	1	max	.108	5	.372	9	0	1	0	1	0	1	0	1
362			min	0	1	0	2	0	1	0	1	0	1	0	1
363		2	max	.108	5	.268	9	0	1	0	1	0	1	0	2
364			min	0	1	0	2	0	1	0	1	0	1	-.438	9
365		3	max	.108	5	.163	9	0	1	0	1	0	1	0	2
366			min	0	1	0	2	0	1	0	1	0	1	-.732	9
367		4	max	.108	5	.059	9	0	1	0	1	0	1	0	2
368			min	0	1	0	2	0	1	0	1	0	1	-.884	9
369		5	max	.108	5	0	2	0	1	0	1	0	1	0	2
370			min	0	1	-.046	9	0	1	0	1	0	1	-.893	9
371		6	max	.108	5	0	2	0	1	0	1	0	1	0	2
372			min	0	1	-.15	9	0	1	0	1	0	1	-.759	9
373		7	max	.108	5	0	2	0	1	0	1	0	1	0	2
374			min	0	1	-.254	9	0	1	0	1	0	1	-.482	9
375		8	max	.108	5	0	2	0	1	0	1	0	1	0	2
376			min	0	1	-.359	9	0	1	0	1	0	1	-.063	9
377		9	max	.108	5	0	2	0	1	0	1	0	1	.5	9
378			min	0	1	-.463	9	0	1	0	1	0	1	0	2
379		10	max	.108	5	0	2	0	1	0	1	0	1	1.205	9
380			min	0	1	-.568	9	0	1	0	1	0	1	0	2
381		11	max	.108	5	.568	9	0	1	0	1	0	1	1.205	9
382			min	0	1	0	2	0	1	0	1	0	1	0	2
383		12	max	.108	5	.463	9	0	1	0	1	0	1	.5	9
384			min	0	1	0	2	0	1	0	1	0	1	0	2
385		13	max	.108	5	.359	9	0	1	0	1	0	1	0	2
386			min	0	1	0	2	0	1	0	1	0	1	-.063	9
387		14	max	.108	5	.254	9	0	1	0	1	0	1	0	2
388			min	0	1	0	2	0	1	0	1	0	1	-.482	9
389		15	max	.108	5	.15	9	0	1	0	1	0	1	0	2
390			min	0	1	0	2	0	1	0	1	0	1	-.759	9
391		16	max	.108	5	.046	9	0	1	0	1	0	1	0	2
392			min	0	1	0	2	0	1	0	1	0	1	-.893	9
393		17	max	.108	5	0	2	0	1	0	1	0	1	0	2
394			min	0	1	-.059	9	0	1	0	1	0	1	-.884	9
395		18	max	.108	5	0	2	0	1	0	1	0	1	0	2
396			min	0	1	-.163	9	0	1	0	1	0	1	-.732	9
397		19	max	.108	5	0	2	0	1	0	1	0	1	0	2
398			min	0	1	-.268	9	0	1	0	1	0	1	-.438	9

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	lc	y Shear[k]	lc	z Shear[k]	lc	Torque[k-ft]	lc	y-y Momen...	lc	z-z Momen...	lc
399		20	max	.108	5	0	2	0	1	0	1	0	1	0	1
400			min	0	1	-.372	9	0	1	0	1	0	1	0	1

Envelope Member Section Stresses

	Member	Sec		Axial[ksi]	lc	y Shear[...	lc	z Shear[...	lc	y-Top[ksi]	lc	y-Bot[ksi]	lc	z-Top[ksi]	lc	z-Bot[ksi]	lc
1	M43	1	max	.17	3	0	3	0	1	.655	10	.006	3	0	1	0	1
2			min	-.012	10	-.036	10	0	1	-.006	3	-.655	10	0	1	0	1
3		2	max	.169	3	0	3	0	1	.49	10	.006	3	0	1	0	1
4			min	-.012	10	-.033	10	0	1	-.006	3	-.49	10	0	1	0	1
5		3	max	.169	3	0	3	0	1	.339	10	.006	3	0	1	0	1
6			min	-.012	10	-.03	10	0	1	-.006	3	-.339	10	0	1	0	1
7		4	max	.169	3	0	3	0	1	.203	10	.005	3	0	1	0	1
8			min	-.012	10	-.027	10	0	1	-.005	3	-.203	10	0	1	0	1
9		5	max	.169	3	0	3	0	1	.081	10	.005	3	0	1	0	1
10			min	-.012	10	-.024	10	0	1	-.005	3	-.081	10	0	1	0	1
11		6	max	.169	3	0	3	0	1	-.001	9	.027	5	0	1	0	1
12			min	-.012	10	-.021	10	0	1	-.027	5	.001	9	0	1	0	1
13		7	max	.169	3	0	3	0	1	-.001	9	.119	5	0	1	0	1
14			min	-.012	10	-.018	10	0	1	-.119	5	.001	9	0	1	0	1
15		8	max	.169	3	0	3	0	1	-.001	9	.197	5	0	1	0	1
16			min	-.012	10	-.015	10	0	1	-.197	5	.001	9	0	1	0	1
17		9	max	.169	3	0	3	0	1	-.001	9	.261	5	0	1	0	1
18			min	-.012	10	-.012	10	0	1	-.261	5	.001	9	0	1	0	1
19		10	max	.169	3	0	3	0	1	-.001	9	.31	5	0	1	0	1
20			min	-.013	10	-.009	10	0	1	-.31	5	.001	9	0	1	0	1
21		11	max	.168	3	0	3	0	1	0	9	.344	5	0	1	0	1
22			min	-.013	10	-.006	10	0	1	-.344	5	0	9	0	1	0	1
23		12	max	.168	3	0	3	0	1	0	1	.364	5	0	1	0	1
24			min	-.013	10	-.003	10	0	1	-.364	5	0	1	0	1	0	1
25		13	max	.168	3	0	5	0	1	0	1	.369	5	0	1	0	1
26			min	-.013	10	0	9	0	1	-.369	5	0	1	0	1	0	1
27		14	max	.168	3	.003	5	0	1	0	1	.36	5	0	1	0	1
28			min	-.013	10	0	9	0	1	-.36	5	0	1	0	1	0	1
29		15	max	.168	3	.007	5	0	1	0	1	.337	5	0	1	0	1
30			min	-.013	10	0	9	0	1	-.337	5	0	1	0	1	0	1
31		16	max	.168	3	.01	5	0	1	0	1	.298	5	0	1	0	1
32			min	-.013	10	0	9	0	1	-.298	5	0	1	0	1	0	1
33		17	max	.168	3	.013	5	0	1	0	1	.246	5	0	1	0	1
34			min	-.013	10	0	9	0	1	-.246	5	0	1	0	1	0	1
35		18	max	.168	3	.016	5	0	1	0	1	.178	5	0	1	0	1
36			min	-.013	10	0	9	0	1	-.178	5	0	1	0	1	0	1
37		19	max	.168	3	.019	5	0	1	0	1	.096	5	0	1	0	1
38			min	-.013	10	0	9	0	1	-.096	5	0	1	0	1	0	1
39		20	max	.168	3	.022	5	0	1	0	1	0	1	0	1	0	1
40			min	-.013	10	0	9	0	1	0	1	0	1	0	1	0	1
41	M44	1	max	.217	12	0	1	0	1	.655	5	0	1	0	1	0	1
42			min	.063	1	-.036	5	0	1	0	1	-.655	5	0	1	0	1
43		2	max	.217	12	0	1	0	1	.49	5	0	1	0	1	0	1
44			min	.063	1	-.033	5	0	1	0	1	-.49	5	0	1	0	1
45		3	max	.217	12	0	1	0	1	.339	5	0	1	0	1	0	1
46			min	.063	1	-.03	5	0	1	0	1	-.339	5	0	1	0	1
47		4	max	.216	12	0	1	0	1	.203	5	0	1	0	1	0	1
48			min	.063	1	-.027	5	0	1	0	1	-.203	5	0	1	0	1
49		5	max	.216	12	0	1	0	1	.081	5	0	1	0	1	0	1
50			min	.063	1	-.024	5	0	1	0	1	-.081	5	0	1	0	1
51		6	max	.216	12	0	1	0	1	0	1	.026	10	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	lc	y Shear[...	lc	z Shear[...	lc	y-Top[ksi]	lc	y-Bot[ksi]	lc	z-Top[ksi]	lc	z-Bot[ksi]	lc
52			min	.063	1	-.021	5	0	1	-.026	10	0	1	0	1	0	1
53		7	max	.216	12	0	1	0	1	0	1	.119	10	0	1	0	1
54			min	.062	1	-.018	5	0	1	-.119	10	0	1	0	1	0	1
55		8	max	.216	12	0	1	0	1	0	1	.197	10	0	1	0	1
56			min	.062	1	-.015	5	0	1	-.197	10	0	1	0	1	0	1
57		9	max	.216	12	0	1	0	1	0	1	.26	10	0	1	0	1
58			min	.062	1	-.012	5	0	1	-.26	10	0	1	0	1	0	1
59		10	max	.216	12	0	1	0	1	0	1	.309	10	0	1	0	1
60			min	.062	1	-.009	5	0	1	-.309	10	0	1	0	1	0	1
61		11	max	.216	12	0	1	0	1	0	1	.344	10	0	1	0	1
62			min	.062	1	-.006	5	0	1	-.344	10	0	1	0	1	0	1
63		12	max	.216	12	0	1	0	1	0	1	.364	10	0	1	0	1
64			min	.062	1	-.003	5	0	1	-.364	10	0	1	0	1	0	1
65		13	max	.216	12	0	5	0	1	0	1	.369	10	0	1	0	1
66			min	.062	1	0	1	0	1	-.369	10	0	1	0	1	0	1
67		14	max	.215	12	.003	5	0	1	0	1	.36	10	0	1	0	1
68			min	.062	1	0	1	0	1	-.36	10	0	1	0	1	0	1
69		15	max	.215	12	.007	5	0	1	0	1	.336	5	0	1	0	1
70			min	.062	1	0	1	0	1	-.336	5	0	1	0	1	0	1
71		16	max	.215	12	.01	5	0	1	0	1	.298	5	0	1	0	1
72			min	.061	1	0	1	0	1	-.298	5	0	1	0	1	0	1
73		17	max	.215	12	.013	5	0	1	0	1	.245	10	0	1	0	1
74			min	.061	1	0	1	0	1	-.245	10	0	1	0	1	0	1
75		18	max	.215	12	.016	5	0	1	0	1	.178	10	0	1	0	1
76			min	.061	1	0	1	0	1	-.178	10	0	1	0	1	0	1
77		19	max	.215	12	.019	5	0	1	0	1	.096	10	0	1	0	1
78			min	.061	1	0	1	0	1	-.096	10	0	1	0	1	0	1
79		20	max	.215	12	.022	5	0	1	0	1	0	1	0	1	0	1
80			min	.061	1	0	1	0	1	0	1	0	1	0	1	0	1
81	M45	1	max	.027	10	.041	9	0	1	0	1	0	1	0	1	0	1
82			min	0	3	0	2	0	1	0	1	0	1	0	1	0	1
83		2	max	.027	10	.03	9	0	1	.299	9	0	2	0	1	0	1
84			min	0	3	0	2	0	1	0	2	-.299	9	0	1	0	1
85		3	max	.027	10	.018	9	0	1	.5	9	.001	2	0	1	0	1
86			min	0	3	0	2	0	1	-.001	2	-.5	9	0	1	0	1
87		4	max	.027	10	.006	9	0	1	.603	9	.002	2	0	1	0	1
88			min	0	3	0	2	0	1	-.002	2	-.603	9	0	1	0	1
89		5	max	.027	10	0	2	0	1	.609	9	.002	2	0	1	0	1
90			min	0	3	-.005	9	0	1	-.002	2	-.609	9	0	1	0	1
91		6	max	.027	10	0	2	0	1	.516	9	.003	2	0	1	0	1
92			min	0	3	-.017	9	0	1	-.003	2	-.516	9	0	1	0	1
93		7	max	.027	10	0	2	0	1	.326	9	.003	2	0	1	0	1
94			min	0	3	-.028	9	0	1	-.003	2	-.326	9	0	1	0	1
95		8	max	.027	10	0	2	0	1	.038	9	.004	2	0	1	0	1
96			min	0	3	-.04	9	0	1	-.004	2	-.038	9	0	1	0	1
97		9	max	.027	10	0	2	0	1	-.004	2	.348	9	0	1	0	1
98			min	0	3	-.051	9	0	1	-.348	9	.004	2	0	1	0	1
99		10	max	.027	10	0	2	0	1	-.005	2	.832	9	0	1	0	1
100			min	0	3	-.063	9	0	1	-.832	9	.005	2	0	1	0	1
101		11	max	.027	10	.063	9	0	1	-.005	2	.832	9	0	1	0	1
102			min	0	3	0	2	0	1	-.832	9	.005	2	0	1	0	1
103		12	max	.027	10	.051	9	0	1	-.004	2	.348	9	0	1	0	1
104			min	0	3	0	2	0	1	-.348	9	.004	2	0	1	0	1
105		13	max	.027	10	.04	9	0	1	.038	9	.004	2	0	1	0	1
106			min	0	3	0	2	0	1	-.004	2	-.038	9	0	1	0	1
107		14	max	.027	10	.028	9	0	1	.326	9	.003	2	0	1	0	1
108			min	0	3	0	2	0	1	-.003	2	-.326	9	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	lc	y Shear[...	lc	z Shear[...	lc	y-Top[ksi]	lc	y-Bot[ksi]	lc	z-Top[ksi]	lc	z-Bot[ksi]	lc
109		15	max	.027	10	.017	9	0	1	.516	9	.003	2	0	1	0	1
110			min	0	3	0	2	0	1	-.003	2	-.516	9	0	1	0	1
111		16	max	.027	10	.005	9	0	1	.609	9	.002	2	0	1	0	1
112			min	0	3	0	2	0	1	-.002	2	-.609	9	0	1	0	1
113		17	max	.027	10	0	2	0	1	.603	9	.002	2	0	1	0	1
114			min	0	3	-.006	9	0	1	-.002	2	-.603	9	0	1	0	1
115		18	max	.027	10	0	2	0	1	.5	9	.001	2	0	1	0	1
116			min	0	3	-.018	9	0	1	-.001	2	-.5	9	0	1	0	1
117		19	max	.027	10	0	2	0	1	.299	9	0	2	0	1	0	1
118			min	0	3	-.03	9	0	1	0	2	-.299	9	0	1	0	1
119		20	max	.027	10	0	2	0	1	0	1	0	1	0	1	0	1
120			min	0	3	-.041	9	0	1	0	1	0	1	0	1	0	1
121	M46	1	max	.1	12	.031	4	0	1	0	1	0	1	0	1	0	1
122			min	.025	9	-.02	10	0	1	0	1	0	1	0	1	0	1
123		2	max	.096	12	.026	4	0	1	.123	4	.081	10	0	1	0	1
124			min	.024	9	-.018	10	0	1	-.081	10	-.123	4	0	1	0	1
125		3	max	.092	12	.021	4	0	1	.226	4	.155	10	0	1	0	1
126			min	.023	9	-.016	10	0	1	-.155	10	-.226	4	0	1	0	1
127		4	max	.088	12	.017	4	0	1	.307	4	.221	10	0	1	0	1
128			min	.023	9	-.015	10	0	1	-.221	10	-.307	4	0	1	0	1
129		5	max	.084	12	.012	4	0	1	.368	4	.28	10	0	1	0	1
130			min	.022	9	-.013	10	0	1	-.28	10	-.368	4	0	1	0	1
131		6	max	.08	12	.007	4	0	1	.408	4	.331	10	0	1	0	1
132			min	.021	9	-.011	5	0	1	-.331	10	-.408	4	0	1	0	1
133		7	max	.076	12	.002	4	0	1	.427	4	.375	10	0	1	0	1
134			min	.02	9	-.01	5	0	1	-.375	10	-.427	4	0	1	0	1
135		8	max	.073	12	-.003	1	0	1	.426	4	.412	10	0	1	0	1
136			min	.02	9	-.009	3	0	1	-.412	10	-.426	4	0	1	0	1
137		9	max	.069	12	-.004	1	0	1	.403	4	.441	10	0	1	0	1
138			min	.019	9	-.013	3	0	1	-.441	10	-.403	4	0	1	0	1
139		10	max	.065	12	-.004	10	0	1	.36	4	.463	5	0	1	0	1
140			min	.018	9	-.016	3	0	1	-.463	5	-.36	4	0	1	0	1
141		11	max	.061	12	-.002	10	0	1	.296	4	.486	5	0	1	0	1
142			min	.017	9	-.02	3	0	1	-.486	5	-.296	4	0	1	0	1
143		12	max	.038	11	.019	3	0	1	.233	4	.496	5	0	1	0	1
144			min	.008	9	.005	1	0	1	-.496	5	-.233	4	0	1	0	1
145		13	max	.034	11	.015	3	0	1	.276	4	.454	5	0	1	0	1
146			min	.007	9	.004	1	0	1	-.454	5	-.276	4	0	1	0	1
147		14	max	.031	5	.012	5	0	1	.299	4	.406	5	0	1	0	1
148			min	.006	9	.003	4	0	1	-.406	5	-.299	4	0	1	0	1
149		15	max	.029	5	.013	5	0	1	.301	4	.355	10	0	1	0	1
150			min	.006	9	-.002	4	0	1	-.355	10	-.301	4	0	1	0	1
151		16	max	.027	5	.014	5	0	1	.283	4	.299	10	0	1	0	1
152			min	.005	9	-.007	4	0	1	-.299	10	-.283	4	0	1	0	1
153		17	max	.024	5	.016	5	0	1	.243	4	.235	10	0	1	0	1
154			min	.002	4	-.012	4	0	1	-.235	10	-.243	4	0	1	0	1
155		18	max	.022	5	.017	10	0	1	.183	4	.164	10	0	1	0	1
156			min	-.001	4	-.016	4	0	1	-.164	10	-.183	4	0	1	0	1
157		19	max	.02	5	.019	10	0	1	.102	4	.086	10	0	1	0	1
158			min	-.004	4	-.021	4	0	1	-.086	10	-.102	4	0	1	0	1
159		20	max	.018	5	.021	10	0	1	0	1	0	1	0	1	0	1
160			min	-.008	4	-.026	4	0	1	0	1	0	1	0	1	0	1
161	M47	1	max	.082	3	.027	5	0	1	0	1	0	1	0	1	0	1
162			min	-.029	10	-.005	4	0	1	0	1	0	1	0	1	0	1
163		2	max	.079	3	.023	5	0	1	.108	5	.024	4	0	1	0	1
164			min	-.028	10	-.006	4	0	1	-.024	4	-.108	5	0	1	0	1
165		3	max	.077	3	.02	5	0	1	.201	5	.052	4	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	lc	y Shear[...	lc	z Shear[...	lc	y-Top[ksi]	lc	y-Bot[ksi]	lc	z-Top[ksi]	lc	z-Bot[ksi]	lc
166			min	-.027	10	-.007	4	0	1	-.052	4	-.201	5	0	1	0	1
167		4	max	.074	3	.017	5	0	1	.28	5	.085	4	0	1	0	1
168			min	-.026	10	-.008	4	0	1	-.085	4	-.28	5	0	1	0	1
169		5	max	.072	3	.013	5	0	1	.345	5	.122	4	0	1	0	1
170			min	-.025	10	-.009	4	0	1	-.122	4	-.345	5	0	1	0	1
171		6	max	.069	3	.01	10	0	1	.394	5	.164	4	0	1	0	1
172			min	-.024	10	-.01	4	0	1	-.164	4	-.394	5	0	1	0	1
173		7	max	.067	3	.007	10	0	1	.429	5	.21	4	0	1	0	1
174			min	-.023	10	-.011	4	0	1	-.21	4	-.429	5	0	1	0	1
175		8	max	.064	3	.004	10	0	1	.45	5	.26	4	0	1	0	1
176			min	-.022	10	-.012	4	0	1	-.26	4	-.45	5	0	1	0	1
177		9	max	.061	3	.001	10	0	1	.456	5	.315	4	0	1	0	1
178			min	-.021	10	-.013	4	0	1	-.315	4	-.456	5	0	1	0	1
179		10	max	.059	3	-.002	10	0	1	.448	10	.375	4	0	1	0	1
180			min	-.02	10	-.016	3	0	1	-.375	4	-.448	10	0	1	0	1
181		11	max	.056	3	-.005	10	0	1	.434	10	.439	4	0	1	0	1
182			min	-.019	10	-.02	3	0	1	-.439	4	-.434	10	0	1	0	1
183		12	max	.027	3	.019	3	0	1	.412	10	.486	4	0	1	0	1
184			min	-.023	10	0	10	0	1	-.486	4	-.412	10	0	1	0	1
185		13	max	.024	3	.017	4	0	1	.405	10	.41	4	0	1	0	1
186			min	-.022	10	-.003	10	0	1	-.41	4	-.405	10	0	1	0	1
187		14	max	.022	4	.016	4	0	1	.386	10	.338	4	0	1	0	1
188			min	-.021	10	-.006	10	0	1	-.338	4	-.386	10	0	1	0	1
189		15	max	.022	4	.015	4	0	1	.356	5	.27	4	0	1	0	1
190			min	-.02	10	-.009	10	0	1	-.27	4	-.356	5	0	1	0	1
191		16	max	.021	4	.014	4	0	1	.314	5	.207	4	0	1	0	1
192			min	-.019	10	-.012	10	0	1	-.207	4	-.314	5	0	1	0	1
193		17	max	.02	4	.013	4	0	1	.257	5	.149	4	0	1	0	1
194			min	-.018	10	-.015	10	0	1	-.149	4	-.257	5	0	1	0	1
195		18	max	.019	4	.012	4	0	1	.186	5	.095	4	0	1	0	1
196			min	-.017	10	-.018	5	0	1	-.095	4	-.186	5	0	1	0	1
197		19	max	.019	4	.011	4	0	1	.1	5	.045	4	0	1	0	1
198			min	-.016	10	-.022	5	0	1	-.045	4	-.1	5	0	1	0	1
199		20	max	.018	4	.01	4	0	1	0	1	0	1	0	1	0	1
200			min	-.015	10	-.025	5	0	1	0	1	0	1	0	1	0	1
201	M56A	1	max	.048	10	.041	9	0	1	0	1	0	1	0	1	0	1
202			min	-.06	3	0	2	0	1	0	1	0	1	0	1	0	1
203		2	max	.048	10	.029	9	0	1	.299	9	.001	2	0	1	0	1
204			min	-.06	3	0	2	0	1	-.001	2	-.299	9	0	1	0	1
205		3	max	.048	10	.018	9	0	1	.499	9	.002	2	0	1	0	1
206			min	-.06	3	0	2	0	1	-.002	2	-.499	9	0	1	0	1
207		4	max	.048	10	.006	9	0	1	.602	9	.003	2	0	1	0	1
208			min	-.06	3	0	2	0	1	-.003	2	-.602	9	0	1	0	1
209		5	max	.048	10	0	2	0	1	.607	9	.004	2	0	1	0	1
210			min	-.06	3	-.005	9	0	1	-.004	2	-.607	9	0	1	0	1
211		6	max	.048	10	0	2	0	1	.514	9	.005	2	0	1	0	1
212			min	-.06	3	-.017	9	0	1	-.005	2	-.514	9	0	1	0	1
213		7	max	.048	10	0	2	0	1	.323	9	.006	2	0	1	0	1
214			min	-.06	3	-.028	9	0	1	-.006	2	-.323	9	0	1	0	1
215		8	max	.048	10	0	2	0	1	.035	9	.007	2	0	1	0	1
216			min	-.06	3	-.04	9	0	1	-.007	2	-.035	9	0	1	0	1
217		9	max	.048	10	0	2	0	1	-.008	2	.352	9	0	1	0	1
218			min	-.06	3	-.051	9	0	1	-.352	9	.008	2	0	1	0	1
219		10	max	.048	10	0	2	0	1	-.009	2	.836	9	0	1	0	1
220			min	-.06	3	-.063	9	0	1	-.836	9	.009	2	0	1	0	1
221		11	max	.048	10	.063	9	0	1	-.009	2	.836	9	0	1	0	1
222			min	-.06	3	0	2	0	1	-.836	9	.009	2	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	lc	y Shear[...	lc	z Shear[...	lc	y-Top[ksi]	lc	y-Bot[ksi]	lc	z-Top[ksi]	lc	z-Bot[ksi]	lc
223		12	max	.048	10	.051	9	0	1	-.008	2	.352	9	0	1	0	1
224			min	-.06	3	0	2	0	1	-.352	9	.008	2	0	1	0	1
225		13	max	.048	10	.04	9	0	1	.035	9	.007	2	0	1	0	1
226			min	-.06	3	0	2	0	1	-.007	2	-.035	9	0	1	0	1
227		14	max	.048	10	.028	9	0	1	.323	9	.006	2	0	1	0	1
228			min	-.06	3	0	2	0	1	-.006	2	-.323	9	0	1	0	1
229		15	max	.048	10	.017	9	0	1	.514	9	.005	2	0	1	0	1
230			min	-.06	3	0	2	0	1	-.005	2	-.514	9	0	1	0	1
231		16	max	.048	10	.005	9	0	1	.607	9	.004	2	0	1	0	1
232			min	-.06	3	0	2	0	1	-.004	2	-.607	9	0	1	0	1
233		17	max	.048	10	0	2	0	1	.602	9	.003	2	0	1	0	1
234			min	-.06	3	-.006	9	0	1	-.003	2	-.602	9	0	1	0	1
235		18	max	.048	10	0	2	0	1	.499	9	.002	2	0	1	0	1
236			min	-.06	3	-.018	9	0	1	-.002	2	-.499	9	0	1	0	1
237		19	max	.048	10	0	2	0	1	.299	9	.001	2	0	1	0	1
238			min	-.06	3	-.029	9	0	1	-.001	2	-.299	9	0	1	0	1
239		20	max	.048	10	0	2	0	1	0	1	0	1	0	1	0	1
240			min	-.06	3	-.041	9	0	1	0	1	0	1	0	1	0	1
241	M44A	1	max	.061	3	.002	5	0	1	0	1	0	1	0	1	0	1
242			min	.012	10	0	2	0	1	0	1	0	1	0	1	0	1
243		2	max	.061	3	.002	5	0	1	.007	5	0	2	0	1	0	1
244			min	.012	10	0	2	0	1	0	2	-.007	5	0	1	0	1
245		3	max	.061	3	.002	5	0	1	.014	5	0	2	0	1	0	1
246			min	.012	10	0	2	0	1	0	2	-.014	5	0	1	0	1
247		4	max	.061	3	.001	5	0	1	.02	5	0	2	0	1	0	1
248			min	.012	10	0	2	0	1	0	2	-.02	5	0	1	0	1
249		5	max	.061	3	.001	5	0	1	.025	5	0	2	0	1	0	1
250			min	.012	10	0	2	0	1	0	2	-.025	5	0	1	0	1
251		6	max	.061	3	0	5	0	1	.029	5	0	2	0	1	0	1
252			min	.012	10	0	2	0	1	0	2	-.029	5	0	1	0	1
253		7	max	.061	3	0	5	0	1	.032	5	0	2	0	1	0	1
254			min	.012	10	0	2	0	1	0	2	-.032	5	0	1	0	1
255		8	max	.061	3	0	5	0	1	.035	5	0	2	0	1	0	1
256			min	.012	10	0	2	0	1	0	2	-.035	5	0	1	0	1
257		9	max	.061	3	0	5	0	1	.037	5	0	2	0	1	0	1
258			min	.012	10	0	2	0	1	0	2	-.037	5	0	1	0	1
259		10	max	.061	3	0	5	0	1	.037	5	0	2	0	1	0	1
260			min	.012	10	0	2	0	1	0	2	-.037	5	0	1	0	1
261		11	max	.061	3	0	2	0	1	.037	5	0	2	0	1	0	1
262			min	.012	10	0	4	0	1	0	2	-.037	5	0	1	0	1
263		12	max	.061	3	0	2	0	1	.037	5	0	2	0	1	0	1
264			min	.012	10	0	4	0	1	0	2	-.037	5	0	1	0	1
265		13	max	.061	3	0	2	0	1	.035	5	0	2	0	1	0	1
266			min	.012	10	0	4	0	1	0	2	-.035	5	0	1	0	1
267		14	max	.061	3	0	2	0	1	.032	5	0	2	0	1	0	1
268			min	.012	10	0	4	0	1	0	2	-.032	5	0	1	0	1
269		15	max	.061	3	0	2	0	1	.029	5	0	2	0	1	0	1
270			min	.012	10	0	4	0	1	0	2	-.029	5	0	1	0	1
271		16	max	.061	3	0	2	0	1	.025	5	0	2	0	1	0	1
272			min	.012	10	-.001	4	0	1	0	2	-.025	5	0	1	0	1
273		17	max	.061	3	0	2	0	1	.02	5	0	2	0	1	0	1
274			min	.012	10	-.001	4	0	1	0	2	-.02	5	0	1	0	1
275		18	max	.061	3	0	2	0	1	.014	5	0	2	0	1	0	1
276			min	.012	10	-.002	4	0	1	0	2	-.014	5	0	1	0	1
277		19	max	.061	3	0	2	0	1	.007	5	0	2	0	1	0	1
278			min	.012	10	-.002	4	0	1	0	2	-.007	5	0	1	0	1
279		20	max	.061	3	0	2	0	1	0	1	0	1	0	1	0	1

Envelope Member Section Stresses (Continued)

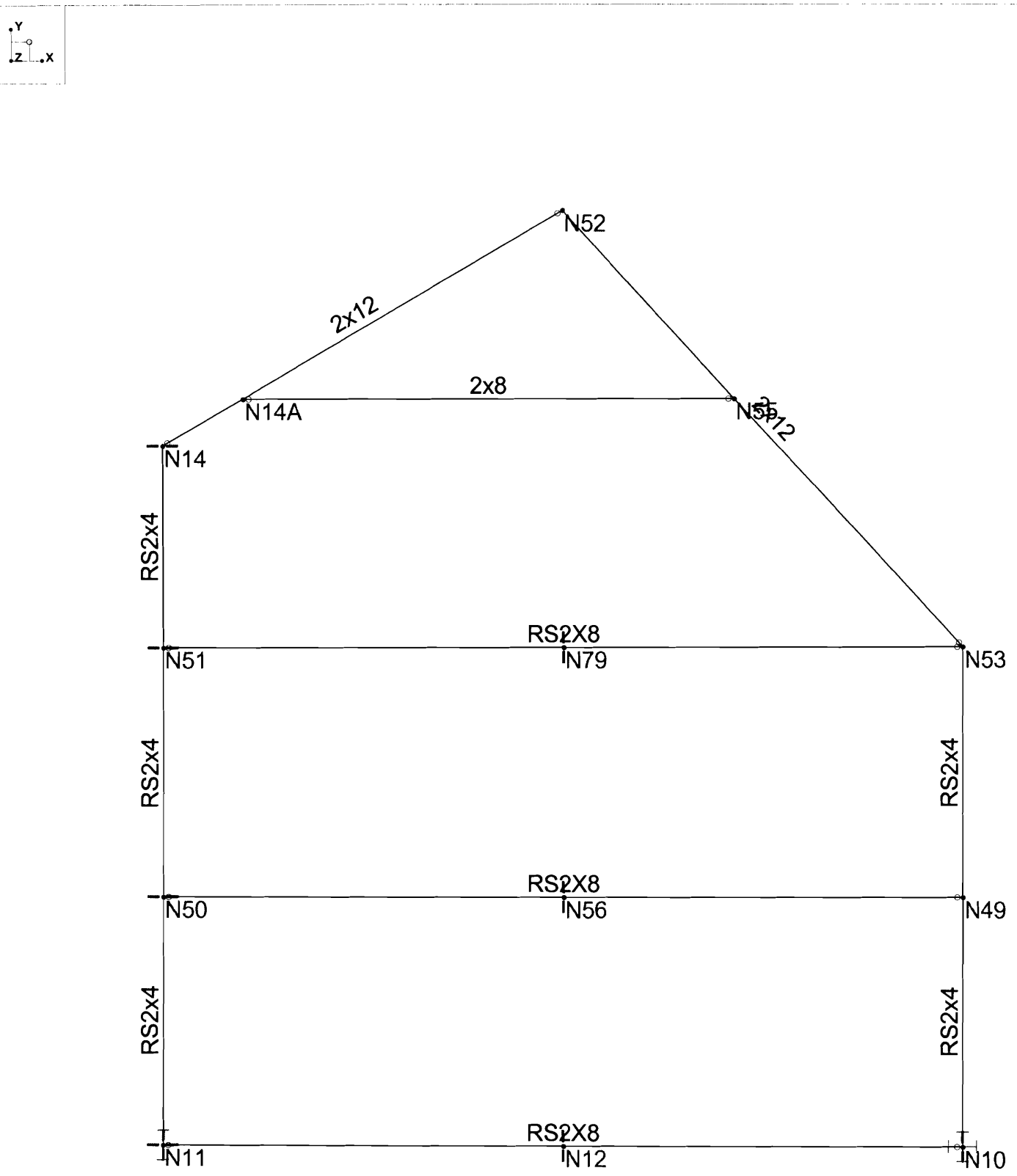
	Member	Sec		Axial[ksi]	lc	y Shear[...	lc	z Shear[...	lc	y-Top[ksi]	lc	y-Bot[ksi]	lc	z-Top[ksi]	lc	z-Bot[ksi]	lc
280			min	.012	10	-.002	4	0	1	0	1	0	1	0	1	0	1
281	M8	1	max	.212	6	0	1	0	1	0	1	0	1	0	1	0	1
282			min	-.002	10	-.022	5	0	1	0	1	0	1	0	1	0	1
283		2	max	.212	6	0	1	0	1	0	1	.096	5	0	1	0	1
284			min	-.002	10	-.019	5	0	1	-.096	5	0	1	0	1	0	1
285		3	max	.212	6	0	1	0	1	0	1	.178	5	0	1	0	1
286			min	-.002	10	-.016	5	0	1	-.178	5	0	1	0	1	0	1
287		4	max	.212	6	0	1	0	1	0	1	.246	5	0	1	0	1
288			min	-.002	10	-.013	5	0	1	-.246	5	0	1	0	1	0	1
289		5	max	.212	6	0	1	0	1	0	1	.298	5	0	1	0	1
290			min	-.002	10	-.01	5	0	1	-.298	5	0	1	0	1	0	1
291		6	max	.211	6	0	1	0	1	0	1	.337	5	0	1	0	1
292			min	-.002	10	-.007	5	0	1	-.337	5	0	1	0	1	0	1
293		7	max	.211	6	0	1	0	1	0	1	.36	5	0	1	0	1
294			min	-.002	10	-.003	5	0	1	-.36	5	0	1	0	1	0	1
295		8	max	.211	6	0	1	0	1	0	1	.369	5	0	1	0	1
296			min	-.002	10	0	5	0	1	-.369	5	0	1	0	1	0	1
297		9	max	.211	6	.003	10	0	1	0	1	.364	5	0	1	0	1
298			min	-.002	10	0	3	0	1	-.364	5	0	1	0	1	0	1
299		10	max	.211	6	.006	10	0	1	0	1	.344	5	0	1	0	1
300			min	-.002	10	0	3	0	1	-.344	5	0	1	0	1	0	1
301		11	max	.211	6	.009	10	0	1	-.001	1	.31	5	0	1	0	1
302			min	-.002	10	0	3	0	1	-.31	5	.001	1	0	1	0	1
303		12	max	.211	6	.012	10	0	1	-.001	1	.261	5	0	1	0	1
304			min	-.002	10	0	3	0	1	-.261	5	.001	1	0	1	0	1
305		13	max	.211	6	.015	10	0	1	-.001	1	.197	5	0	1	0	1
306			min	-.002	10	0	3	0	1	-.197	5	.001	1	0	1	0	1
307		14	max	.211	6	.018	10	0	1	-.001	1	.119	5	0	1	0	1
308			min	-.002	10	0	3	0	1	-.119	5	.001	1	0	1	0	1
309		15	max	.211	6	.021	10	0	1	-.001	1	.027	5	0	1	0	1
310			min	-.003	10	0	3	0	1	-.027	5	.001	1	0	1	0	1
311		16	max	.21	6	.024	10	0	1	.081	10	.005	3	0	1	0	1
312			min	-.003	10	0	3	0	1	-.005	3	-.081	10	0	1	0	1
313		17	max	.21	6	.027	10	0	1	.203	10	.005	3	0	1	0	1
314			min	-.003	10	0	3	0	1	-.005	3	-.203	10	0	1	0	1
315		18	max	.21	6	.03	10	0	1	.339	10	.006	3	0	1	0	1
316			min	-.003	10	0	3	0	1	-.006	3	-.339	10	0	1	0	1
317		19	max	.21	6	.033	10	0	1	.49	10	.006	3	0	1	0	1
318			min	-.003	10	0	3	0	1	-.006	3	-.49	10	0	1	0	1
319		20	max	.21	6	.036	10	0	1	.655	10	.006	3	0	1	0	1
320			min	-.003	10	0	3	0	1	-.006	3	-.655	10	0	1	0	1
321	M9	1	max	.26	12	0	1	0	1	0	1	0	1	0	1	0	1
322			min	.08	1	-.022	5	0	1	0	1	0	1	0	1	0	1
323		2	max	.26	12	0	1	0	1	0	1	.096	5	0	1	0	1
324			min	.08	1	-.019	5	0	1	-.096	5	0	1	0	1	0	1
325		3	max	.26	12	0	1	0	1	0	1	.178	5	0	1	0	1
326			min	.08	1	-.016	5	0	1	-.178	5	0	1	0	1	0	1
327		4	max	.26	12	0	1	0	1	0	1	.245	5	0	1	0	1
328			min	.08	1	-.013	5	0	1	-.245	5	0	1	0	1	0	1
329		5	max	.259	12	0	1	0	1	0	1	.298	5	0	1	0	1
330			min	.08	1	-.01	5	0	1	-.298	5	0	1	0	1	0	1
331		6	max	.259	12	0	1	0	1	0	1	.336	5	0	1	0	1
332			min	.08	1	-.007	5	0	1	-.336	5	0	1	0	1	0	1
333		7	max	.259	12	0	1	0	1	0	1	.36	5	0	1	0	1
334			min	.08	1	-.003	5	0	1	-.36	5	0	1	0	1	0	1
335		8	max	.259	12	0	1	0	1	0	1	.369	5	0	1	0	1
336			min	.079	1	0	5	0	1	-.369	5	0	1	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	lc	y Shear[...	lc	z Shear[...	lc	y-Top[ksi]	lc	y-Bot[ksi]	lc	z-Top[ksi]	lc	z-Bot[ksi]	lc
337		9	max	.259	12	.003	5	0	1	0	1	.364	5	0	1	0	1
338			min	.079	1	0	1	0	1	-.364	5	0	1	0	1	0	1
339		10	max	.259	12	.006	5	0	1	0	1	.344	5	0	1	0	1
340			min	.079	1	0	1	0	1	-.344	5	0	1	0	1	0	1
341		11	max	.259	12	.009	5	0	1	0	1	.309	5	0	1	0	1
342			min	.079	1	0	1	0	1	-.309	5	0	1	0	1	0	1
343		12	max	.259	12	.012	5	0	1	0	1	.26	5	0	1	0	1
344			min	.079	1	0	1	0	1	-.26	5	0	1	0	1	0	1
345		13	max	.259	12	.015	5	0	1	0	1	.197	5	0	1	0	1
346			min	.079	1	0	1	0	1	-.197	5	0	1	0	1	0	1
347		14	max	.259	12	.018	5	0	1	0	1	.119	5	0	1	0	1
348			min	.079	1	0	1	0	1	-.119	5	0	1	0	1	0	1
349		15	max	.258	12	.021	5	0	1	0	1	.026	5	0	1	0	1
350			min	.079	1	0	1	0	1	-.026	5	0	1	0	1	0	1
351		16	max	.258	12	.024	5	0	1	.081	5	0	1	0	1	0	1
352			min	.079	1	0	1	0	1	0	1	-.081	5	0	1	0	1
353		17	max	.258	12	.027	5	0	1	.203	5	0	1	0	1	0	1
354			min	.079	1	0	1	0	1	0	1	-.203	5	0	1	0	1
355		18	max	.258	12	.03	5	0	1	.339	5	0	1	0	1	0	1
356			min	.078	1	0	1	0	1	0	1	-.339	5	0	1	0	1
357		19	max	.258	12	.033	5	0	1	.49	5	0	1	0	1	0	1
358			min	.078	1	0	1	0	1	0	1	-.49	5	0	1	0	1
359		20	max	.258	12	.036	5	0	1	.655	5	0	1	0	1	0	1
360			min	.078	1	0	1	0	1	0	1	-.655	5	0	1	0	1
361	M10	1	max	.008	5	.041	9	0	1	0	1	0	1	0	1	0	1
362			min	0	1	0	2	0	1	0	1	0	1	0	1	0	1
363		2	max	.008	5	.03	9	0	1	.3	9	0	2	0	1	0	1
364			min	0	1	0	2	0	1	0	2	-.3	9	0	1	0	1
365		3	max	.008	5	.018	9	0	1	.502	9	0	2	0	1	0	1
366			min	0	1	0	2	0	1	0	2	-.502	9	0	1	0	1
367		4	max	.008	5	.006	9	0	1	.606	9	0	2	0	1	0	1
368			min	0	1	0	2	0	1	0	2	-.606	9	0	1	0	1
369		5	max	.008	5	0	2	0	1	.612	9	0	2	0	1	0	1
370			min	0	1	-.005	9	0	1	0	2	-.612	9	0	1	0	1
371		6	max	.008	5	0	2	0	1	.52	9	0	2	0	1	0	1
372			min	0	1	-.017	9	0	1	0	2	-.52	9	0	1	0	1
373		7	max	.008	5	0	2	0	1	.33	9	0	2	0	1	0	1
374			min	0	1	-.028	9	0	1	0	2	-.33	9	0	1	0	1
375		8	max	.008	5	0	2	0	1	.043	9	0	2	0	1	0	1
376			min	0	1	-.04	9	0	1	0	2	-.043	9	0	1	0	1
377		9	max	.008	5	0	2	0	1	0	2	.343	9	0	1	0	1
378			min	0	1	-.051	9	0	1	-.343	9	0	2	0	1	0	1
379		10	max	.008	5	0	2	0	1	0	2	.826	9	0	1	0	1
380			min	0	1	-.063	9	0	1	-.826	9	0	2	0	1	0	1
381		11	max	.008	5	.063	9	0	1	0	2	.826	9	0	1	0	1
382			min	0	1	0	2	0	1	-.826	9	0	2	0	1	0	1
383		12	max	.008	5	.051	9	0	1	0	2	.343	9	0	1	0	1
384			min	0	1	0	2	0	1	-.343	9	0	2	0	1	0	1
385		13	max	.008	5	.04	9	0	1	.043	9	0	2	0	1	0	1
386			min	0	1	0	2	0	1	0	2	-.043	9	0	1	0	1
387		14	max	.008	5	.028	9	0	1	.33	9	0	2	0	1	0	1
388			min	0	1	0	2	0	1	0	2	-.33	9	0	1	0	1
389		15	max	.008	5	.017	9	0	1	.52	9	0	2	0	1	0	1
390			min	0	1	0	2	0	1	0	2	-.52	9	0	1	0	1
391		16	max	.008	5	.005	9	0	1	.612	9	0	2	0	1	0	1
392			min	0	1	0	2	0	1	0	2	-.612	9	0	1	0	1
393		17	max	.008	5	0	2	0	1	.606	9	0	2	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	lc	y Shear[...	lc	z Shear[...	lc	y-Top[ksi]	lc	y-Bot[ksi]	lc	z-Top[ksi]	lc	z-Bot[ksi]	lc
394			min	0	1	-.006	9	0	1	0	2	-.606	9	0	1	0	1
395		18	max	.008	5	0	2	0	1	.502	9	0	2	0	1	0	1
396			min	0	1	-.018	9	0	1	0	2	-.502	9	0	1	0	1
397		19	max	.008	5	0	2	0	1	.3	9	0	2	0	1	0	1
398			min	0	1	-.03	9	0	1	0	2	-.3	9	0	1	0	1
399		20	max	.008	5	0	2	0	1	0	1	0	1	0	1	0	1
400			min	0	1	-.041	9	0	1	0	1	0	1	0	1	0	1



Solution: Envelope

Associated Design Partner...	BOLES RESIDENCE	
Aaron S. Wilson, P.E.		Dec 15, 2006 at 1:06 PM
06095	BOLES RESIDENCE - CASE 2	frame2.R3D

Wood Material Properties

	Label	Species	Grade	Cm	Emod	Nu	Therm (\...	Dens[k/ft^3]
1	DF Larch	Douglas Fir-Larch	No.1		1	.3	.3	.035
2	So Pine	Southern Pine	No.1		1	.3	.3	.035
3	SPF	Southern Pine	No.1		1	.3	.3	.035

Wood Design Parameters

	Label	Shape	Length[ft]	le2[ft]	le1[ft]	le-bend to...	le-bend bo...	Kyy	Kzz	CH	Cr	y sway	z sway
1	M43	RS2x4	8	1	Segment	Segment	Segment			1.7	Yes		
2	M44	RS2x4	8	1	Segment	Segment	Segment			1.7	Yes		
3	M45	RS2X8	26	1	Segment	1	2			1.7	Yes		
4	M46	2x12	15.008	1	Segment	1	Segment			1.7	Yes		
5	M47	2x12	19.105	1	Segment	1	Segment			1.7	Yes		
6	M56A	RS2X8	26	1	Segment	1	2			1.7	Yes		
7	M44A	2x8	15.971	4	4	4	4			1.75	Yes		
8	M8	RS2x4	8	1	Segment	Segment	Segment			1.7	Yes		
9	M9	RS2x4	8	1	Segment	Segment	Segment			1.7	Yes		
10	M10	RS2X8	26	1	Segment	1	2			1.7	Yes		
11	M11	RS2x4	6.5	1	Segment	Segment	Segment			1.7	Yes		

Wood Section Sets

	Label	Shape	Type	Design List	Material	Design Rul...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	2x12	2X12	Beam	Rectangular	SPF	Typical	16.875	3.164	177.979	11.593
2	RS2X8	1.75X7.75FS	Beam	Rectangular	SPF	Typical	13.563	3.461	67.883	11.876
3	RS2x4	1.75X4.25FS	Beam	Rectangular	SPF	Typical	7.438	1.898	11.195	5.628
4	(2)2x12	2-2X12	Beam	Rectangular Double	SPF	Typical	33.75	25.313	355.957	84.247
5	2x8	2X8	Beam	Rectangular	SPF	Typical	10.875	2.039	47.635	7.093

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rot...	Section/Shape	Type	Design List	Material	Design Rules
1	M43	N49	N53			RS2x4	Beam	Rectangular	SPF	Typical
2	M44	N50	N51			RS2x4	Beam	Rectangular	SPF	Typical
3	M45	N49	N50			RS2X8	Beam	Rectangular	SPF	Typical
4	M46	N14	N52			2x12	Beam	Rectangular	SPF	Typical
5	M47	N53	N52			2x12	Beam	Rectangular	SPF	Typical
6	M56A	N53	N51			RS2X8	Beam	Rectangular	SPF	Typical
7	M44A	N14A	N55			2x8	Beam	Rectangular	SPF	Typical
8	M8	N10	N49			RS2x4	Beam	Rectangular	SPF	Typical
9	M9	N11	N50			RS2x4	Beam	Rectangular	SPF	Typical
10	M10	N10	N11			RS2X8	Beam	Rectangular	SPF	Typical
11	M11	N51	N14			RS2x4	Beam	Rectangular	SPF	Typical

Member Distributed Loads (BLC 1 : DL)

	Member Label	Direction	Start Magnitude[k/ft,d...	End Magnitude[k/ft,d...	Start Location[ft,%]	End Location[ft,%]
1	M45	Y	-.02	-.02	0	0
2	M46	Y	-.013	-.013	0	0
3	M47	Y	-.013	-.013	0	0
4	M56A	Y	-.02	-.02	0	0
5	M10	Y	-.02	-.02	0	0

Member Distributed Loads (BLC 2 : SL)

	Member Label	Direction	Start Magnitude[k/ft,d...	End Magnitude[k/ft,d...	Start Location[ft,%]	End Location[ft,%]

Member Distributed Loads (BLC 2 : SL) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,d...	End Magnitude[k/ft,d...	Start Location[ft,%]	End Location[ft,%]
1	M46	V	-.061	-.061	0	0
2	M47	V	-.061	-.061	0	0

Member Distributed Loads (BLC 3 : SL(UNBAL)1)

	Member Label	Direction	Start Magnitude[k/ft,d...	End Magnitude[k/ft,d...	Start Location[ft,%]	End Location[ft,%]
1	M46	V	-.092	-.092	0	0

Member Distributed Loads (BLC 4 : LL)

	Member Label	Direction	Start Magnitude[k/ft,d...	End Magnitude[k/ft,d...	Start Location[ft,%]	End Location[ft,%]
1	M45	Y	-.053	-.053	0	0
2	M56A	Y	-.053	-.053	0	0
3	M10	Y	-.053	-.053	0	0

Member Distributed Loads (BLC 5 : WL)

	Member Label	Direction	Start Magnitude[k/ft,d...	End Magnitude[k/ft,d...	Start Location[ft,%]	End Location[ft,%]
1	M46	X	-.036	-.036	0	0
2	M44	X	-.036	-.036	0	0
3	M9	X	-.036	-.036	0	0
4	M47	X	-.036	-.036	0	0
5	M43	X	-.036	-.036	0	0
6	M8	X	-.036	-.036	0	0
7	M11	X	-.036	-.036	0	0

Load Combinations

	Description	Sol...	PD...	SR...	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
1	DL	Yes			1	1														
2	SL	Yes			2	1														
3	DL+SL	Yes			1	1	2	1												
4	DL+SLUNBAL1	Yes			1	1	3	1												
5	DL+SLUNBAL2	Yes			1	1	5	1												
6	DL+SL+LL	Yes			1	1	2	.75	4	.75										
7	DL+SLUNBAL1+LL	Yes			1	1	3	.75	4	.75										
8	DL+SLUNBAL2+LL	Yes			1	1	5	.75	4	.75										
9	DL+LL	Yes			1	1	4	1												
10	DL+WL	Yes			1	.6	5	1												
11	DL+SL+WL	Yes			1	1	3	.75	5	.75										
12	DL+SL+WL+LL	Yes			1	1	3	.75	4	.75	5	.75								

Envelope Joint Reactions

	Joint		X [k]	lc	Y [k]	lc	Z [k]	lc	MX [k-ft]	lc	MY [k-ft]	lc	MZ [k-ft]	lc
1	N49	max	0	1	0	1	0	1	0	1	0	1	0	1
2		min	0	1	0	1	0	1	0	1	0	1	0	1
3	N50	max	.686	10	0	1	0	1	0	1	0	1	0	1
4		min	0	3	0	1	0	1	0	1	0	1	0	1
5	N51	max	.561	10	0	1	0	1	0	1	0	1	0	1
6		min	-1.072	3	0	1	0	1	0	1	0	1	0	1
7	N53	max	0	1	0	1	0	1	0	1	0	1	0	1
8		min	0	1	0	1	0	1	0	1	0	1	0	1
9	N56	max	0	1	1.241	9	0	1	0	1	0	1	0	1
10		min	0	1	.001	2	0	1	0	1	0	1	0	1
11	N79	max	0	1	1.242	9	0	1	0	1	0	1	0	1
12		min	0	1	.002	2	0	1	0	1	0	1	0	1
13	N10	max	0	1	2.09	6	0	1	0	1	0	1	0	1

Envelope Joint Reactions (Continued)

	Joint		X [k]	lc	Y [k]	lc	Z [k]	lc	MX [k-ft]	lc	MY [k-ft]	lc	MZ [k-ft]	lc
14		min	0	1	.283	10	0	1	0	1	0	1	0	1
15	N11	max	.222	5	1.906	12	0	1	0	1	0	1	0	1
16		min	0	1	.542	10	0	1	0	1	0	1	0	1
17	N12	max	0	1	1.24	9	0	1	0	1	0	1	0	1
18		min	0	1	0	2	0	1	0	1	0	1	0	1
19	N14	max	1.365	12	0	1	0	1	0	1	0	1	0	1
20		min	.309	9	0	1	0	1	0	1	0	1	0	1
21	Totals:	max	2.614	10	6.802	6	0	1						
22		min	0	9	1.507	10	0	1						

Envelope Member Section Forces

	Member	Sec		Axial[k]	lc	y Shear[k]	lc	z Shear[k]	lc	Torque[k-ft]	lc	y-y Momen...	lc	z-z Momen...	lc
1	M43	1	max	1.514	3	0	3	0	1	0	1	0	1	.004	3
2			min	.138	10	-.18	10	0	1	0	1	0	1	-.286	10
3		2	max	1.513	3	0	3	0	1	0	1	0	1	.004	3
4			min	.137	10	-.165	10	0	1	0	1	0	1	-.214	10
5		3	max	1.512	3	0	3	0	1	0	1	0	1	.003	3
6			min	.137	10	-.149	10	0	1	0	1	0	1	-.148	10
7		4	max	1.511	3	0	3	0	1	0	1	0	1	.003	3
8			min	.136	10	-.134	10	0	1	0	1	0	1	-.088	10
9		5	max	1.511	3	0	3	0	1	0	1	0	1	.003	3
10			min	.136	10	-.119	10	0	1	0	1	0	1	-.035	10
11		6	max	1.51	3	0	3	0	1	0	1	0	1	.013	5
12			min	.136	10	-.104	10	0	1	0	1	0	1	0	1
13		7	max	1.509	3	0	3	0	1	0	1	0	1	.053	5
14			min	.135	10	-.089	10	0	1	0	1	0	1	0	1
15		8	max	1.508	3	0	3	0	1	0	1	0	1	.087	5
16			min	.135	10	-.074	10	0	1	0	1	0	1	0	1
17		9	max	1.508	3	0	3	0	1	0	1	0	1	.115	5
18			min	.134	10	-.059	10	0	1	0	1	0	1	0	1
19		10	max	1.507	3	0	3	0	1	0	1	0	1	.137	5
20			min	.134	10	-.043	10	0	1	0	1	0	1	0	1
21		11	max	1.506	3	0	3	0	1	0	1	0	1	.152	5
22			min	.133	10	-.028	10	0	1	0	1	0	1	0	1
23		12	max	1.505	3	0	3	0	1	0	1	0	1	.16	5
24			min	.133	10	-.013	10	0	1	0	1	0	1	0	9
25		13	max	1.505	3	.002	5	0	1	0	1	0	1	.163	5
26			min	.132	10	0	1	0	1	0	1	0	1	0	9
27		14	max	1.504	3	.017	5	0	1	0	1	0	1	.159	5
28			min	.132	10	0	1	0	1	0	1	0	1	0	9
29		15	max	1.503	3	.032	5	0	1	0	1	0	1	.148	5
30			min	.131	10	0	1	0	1	0	1	0	1	0	9
31		16	max	1.502	3	.048	5	0	1	0	1	0	1	.131	5
32			min	.131	10	0	1	0	1	0	1	0	1	0	9
33		17	max	1.502	3	.063	5	0	1	0	1	0	1	.108	5
34			min	.131	10	0	1	0	1	0	1	0	1	0	9
35		18	max	1.501	3	.078	5	0	1	0	1	0	1	.078	5
36			min	.13	10	0	1	0	1	0	1	0	1	0	9
37		19	max	1.5	3	.093	5	0	1	0	1	0	1	.042	5
38			min	.13	10	0	1	0	1	0	1	0	1	0	9
39		20	max	1.499	3	.108	5	0	1	0	1	0	1	0	1
40			min	.129	10	0	1	0	1	0	1	0	1	0	1
41	M44	1	max	1.278	12	0	1	0	1	0	1	0	1	0	1
42			min	.361	1	-.152	5	0	1	0	1	0	1	-.244	5
43		2	max	1.277	12	0	1	0	1	0	1	0	1	0	1
44			min	.36	1	-.137	5	0	1	0	1	0	1	-.183	5

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	lc	y Shear[k]	lc	z Shear[k]	lc	Torque[k-ft]	lc	y-y Momen...	lc	z-z Momen...	lc
45		3	max	1.276	12	0	1	0	1	0	1	0	1	0	1
46			min	.359	1	-.122	5	0	1	0	1	0	1	-.128	5
47		4	max	1.276	12	0	1	0	1	0	1	0	1	0	1
48			min	.359	1	-.107	5	0	1	0	1	0	1	-.08	5
49		5	max	1.275	12	0	1	0	1	0	1	0	1	0	1
50			min	.358	1	-.092	5	0	1	0	1	0	1	-.038	5
51		6	max	1.274	12	0	1	0	1	0	1	0	1	0	1
52			min	.357	1	-.077	5	0	1	0	1	0	1	-.003	5
53		7	max	1.273	12	0	1	0	1	0	1	0	1	.026	5
54			min	.356	1	-.061	5	0	1	0	1	0	1	0	1
55		8	max	1.273	12	0	1	0	1	0	1	0	1	.049	5
56			min	.356	1	-.046	5	0	1	0	1	0	1	0	1
57		9	max	1.272	12	0	1	0	1	0	1	0	1	.065	5
58			min	.355	1	-.031	5	0	1	0	1	0	1	0	1
59		10	max	1.271	12	0	1	0	1	0	1	0	1	.075	5
60			min	.354	1	-.016	5	0	1	0	1	0	1	0	1
61		11	max	1.27	12	0	1	0	1	0	1	0	1	.079	5
62			min	.353	1	0	5	0	1	0	1	0	1	0	1
63		12	max	1.27	12	.014	5	0	1	0	1	0	1	.076	5
64			min	.353	1	0	1	0	1	0	1	0	1	0	1
65		13	max	1.269	12	.03	5	0	1	0	1	0	1	.067	5
66			min	.352	1	0	1	0	1	0	1	0	1	0	1
67		14	max	1.268	12	.045	5	0	1	0	1	0	1	.051	5
68			min	.351	1	0	1	0	1	0	1	0	1	0	1
69		15	max	1.267	12	.06	5	0	1	0	1	0	1	.029	5
70			min	.35	1	0	1	0	1	0	1	0	1	0	1
71		16	max	1.266	12	.075	5	0	1	0	1	0	1	0	5
72			min	.35	1	0	1	0	1	0	1	0	1	0	1
73		17	max	1.266	12	.09	5	0	1	0	1	0	1	0	1
74			min	.349	1	0	1	0	1	0	1	0	1	-.034	5
75		18	max	1.265	12	.105	5	0	1	0	1	0	1	0	1
76			min	.348	1	0	1	0	1	0	1	0	1	-.075	5
77		19	max	1.264	12	.12	5	0	1	0	1	0	1	0	1
78			min	.347	1	0	1	0	1	0	1	0	1	-.123	5
79		20	max	1.263	12	.136	5	0	1	0	1	0	1	0	1
80			min	.347	1	0	1	0	1	0	1	0	1	-.177	5
81	M45	1	max	.36	10	.371	9	0	1	0	1	0	1	0	1
82			min	0	3	0	2	0	1	0	1	0	1	0	1
83		2	max	.36	10	.267	9	0	1	0	1	0	1	0	2
84			min	0	3	0	2	0	1	0	1	0	1	-.437	9
85		3	max	.36	10	.162	9	0	1	0	1	0	1	.001	2
86			min	0	3	0	2	0	1	0	1	0	1	-.73	9
87		4	max	.36	10	.058	9	0	1	0	1	0	1	.002	2
88			min	0	3	0	2	0	1	0	1	0	1	-.881	9
89		5	max	.36	10	0	2	0	1	0	1	0	1	.003	2
90			min	0	3	-.046	9	0	1	0	1	0	1	-.889	9
91		6	max	.36	10	0	2	0	1	0	1	0	1	.004	2
92			min	0	3	-.151	9	0	1	0	1	0	1	-.754	9
93		7	max	.36	10	0	2	0	1	0	1	0	1	.004	2
94			min	0	3	-.255	9	0	1	0	1	0	1	-.476	9
95		8	max	.36	10	0	2	0	1	0	1	0	1	.005	2
96			min	0	3	-.36	9	0	1	0	1	0	1	-.055	9
97		9	max	.36	10	0	2	0	1	0	1	0	1	.508	9
98			min	0	3	-.464	9	0	1	0	1	0	1	.006	2
99		10	max	.36	10	0	2	0	1	0	1	0	1	1.215	9
100			min	0	3	-.568	9	0	1	0	1	0	1	.007	2
101		11	max	.36	10	.568	9	0	1	0	1	0	1	1.215	9

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	lc	y Shear[k]	lc	z Shear[k]	lc	Torque[k-ft]	lc	y-y Momen...	lc	z-z Momen...	lc
102			min	0	3	0	2	0	1	0	1	0	1	.007	2
103		12	max	.36	10	.464	9	0	1	0	1	0	1	.508	9
104			min	0	3	0	2	0	1	0	1	0	1	.006	2
105		13	max	.36	10	.36	9	0	1	0	1	0	1	.005	2
106			min	0	3	0	2	0	1	0	1	0	1	-.055	9
107		14	max	.36	10	.255	9	0	1	0	1	0	1	.004	2
108			min	0	3	0	2	0	1	0	1	0	1	-.476	9
109		15	max	.36	10	.151	9	0	1	0	1	0	1	.004	2
110			min	0	3	0	2	0	1	0	1	0	1	-.754	9
111		16	max	.36	10	.046	9	0	1	0	1	0	1	.003	2
112			min	0	3	0	2	0	1	0	1	0	1	-.889	9
113		17	max	.36	10	0	2	0	1	0	1	0	1	.002	2
114			min	0	3	-.058	9	0	1	0	1	0	1	-.881	9
115		18	max	.36	10	0	2	0	1	0	1	0	1	.001	2
116			min	0	3	-.162	9	0	1	0	1	0	1	-.73	9
117		19	max	.36	10	0	2	0	1	0	1	0	1	0	2
118			min	0	3	-.267	9	0	1	0	1	0	1	-.437	9
119		20	max	.36	10	0	2	0	1	0	1	0	1	0	1
120			min	0	3	-.371	9	0	1	0	1	0	1	0	1
121	M46	1	max	1.597	11	.493	4	0	1	0	1	0	1	0	1
122			min	.379	9	-.255	10	0	1	0	1	0	1	0	1
123		2	max	1.548	11	.427	4	0	1	0	1	0	1	.199	10
124			min	.372	9	-.248	10	0	1	0	1	0	1	-.363	4
125		3	max	1.5	11	.361	4	0	1	0	1	0	1	.392	10
126			min	.365	9	-.241	10	0	1	0	1	0	1	-.674	4
127		4	max	1.451	11	.294	4	0	1	0	1	0	1	.579	10
128			min	.358	9	-.234	10	0	1	0	1	0	1	-.933	4
129		5	max	.867	11	.398	4	0	1	0	1	0	1	.724	10
130			min	.15	1	.007	10	0	1	0	1	0	1	-1.166	4
131		6	max	.818	11	.332	4	0	1	0	1	0	1	.716	10
132			min	.144	1	.014	10	0	1	0	1	0	1	-1.455	4
133		7	max	.769	11	.266	4	0	1	0	1	0	1	.702	10
134			min	.137	1	.022	10	0	1	0	1	0	1	-1.691	4
135		8	max	.72	11	.2	4	0	1	0	1	0	1	.682	10
136			min	.13	1	.029	10	0	1	0	1	0	1	-1.875	4
137		9	max	.671	11	.141	3	0	1	0	1	0	1	.656	10
138			min	.123	1	.036	9	0	1	0	1	0	1	-2.006	4
139		10	max	.622	11	.093	3	0	1	0	1	0	1	.625	10
140			min	.117	1	.024	9	0	1	0	1	0	1	-2.085	4
141		11	max	.574	11	.055	5	0	1	0	1	0	1	.588	10
142			min	.11	1	0	4	0	1	0	1	0	1	-2.112	4
143		12	max	.525	11	.058	5	0	1	0	1	0	1	.545	10
144			min	.103	1	-.065	4	0	1	0	1	0	1	-2.087	4
145		13	max	.476	11	.065	10	0	1	0	1	0	1	.497	10
146			min	.096	1	-.132	4	0	1	0	1	0	1	-2.009	4
147		14	max	.427	11	.072	10	0	1	0	1	0	1	.443	10
148			min	.09	1	-.198	4	0	1	0	1	0	1	-1.879	4
149		15	max	.378	11	.079	10	0	1	0	1	0	1	.383	10
150			min	.083	1	-.264	4	0	1	0	1	0	1	-1.696	4
151		16	max	.33	11	.086	10	0	1	0	1	0	1	.318	10
152			min	.076	1	-.33	4	0	1	0	1	0	1	-1.462	4
153		17	max	.281	11	.093	10	0	1	0	1	0	1	.247	10
154			min	.069	1	-.396	4	0	1	0	1	0	1	-1.175	4
155		18	max	.232	11	.101	10	0	1	0	1	0	1	.17	10
156			min	.063	1	-.463	4	0	1	0	1	0	1	-.835	4
157		19	max	.202	3	.108	10	0	1	0	1	0	1	.088	10
158			min	.056	1	-.529	4	0	1	0	1	0	1	-.444	4

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	lc	y Shear[k]	lc	z Shear[k]	lc	Torque[k-ft]	lc	y-y Momen...	lc	z-z Momen...	lc
159		20	max	.175	3	.115	10	0	1	0	1	0	1	0	1
160			min	.049	1	-.595	4	0	1	0	1	0	1	0	1
161	M47	1	max	1.746	3	.188	5	0	1	0	1	0	1	0	1
162			min	-.073	10	-.001	4	0	1	0	1	0	1	0	1
163		2	max	1.703	3	.15	5	0	1	0	1	0	1	.007	4
164			min	-.056	10	-.013	4	0	1	0	1	0	1	-.17	5
165		3	max	1.66	3	.111	5	0	1	0	1	0	1	.026	4
166			min	-.039	10	-.024	4	0	1	0	1	0	1	-.301	5
167		4	max	1.617	3	.073	5	0	1	0	1	0	1	.056	4
168			min	-.022	10	-.036	4	0	1	0	1	0	1	-.394	5
169		5	max	1.574	3	.035	5	0	1	0	1	0	1	.098	4
170			min	-.004	10	-.048	4	0	1	0	1	0	1	-.448	5
171		6	max	1.53	3	0	10	0	1	0	1	0	1	.152	4
172			min	.013	10	-.06	4	0	1	0	1	0	1	-.464	5
173		7	max	1.487	3	-.022	9	0	1	0	1	0	1	.218	4
174			min	.03	10	-.082	3	0	1	0	1	0	1	-.441	5
175		8	max	1.444	3	-.034	9	0	1	0	1	0	1	.296	4
176			min	.047	10	-.122	3	0	1	0	1	0	1	-.38	5
177		9	max	1.401	3	-.045	9	0	1	0	1	0	1	.385	4
178			min	.064	10	-.162	3	0	1	0	1	0	1	-.281	5
179		10	max	1.358	3	-.057	9	0	1	0	1	0	1	.486	4
180			min	.081	10	-.203	3	0	1	0	1	0	1	-.16	10
181		11	max	1.314	3	-.069	9	0	1	0	1	0	1	.599	4
182			min	.098	10	-.243	3	0	1	0	1	0	1	-.009	10
183		12	max	.76	3	.237	3	0	1	0	1	0	1	.686	4
184			min	-.227	10	.067	9	0	1	0	1	0	1	.126	10
185		13	max	.717	3	.197	3	0	1	0	1	0	1	.559	4
186			min	-.21	10	.055	9	0	1	0	1	0	1	-.008	10
187		14	max	.677	4	.156	3	0	1	0	1	0	1	.444	4
188			min	-.193	10	.043	9	0	1	0	1	0	1	-.108	10
189		15	max	.665	4	.116	3	0	1	0	1	0	1	.341	4
190			min	-.176	10	.031	9	0	1	0	1	0	1	-.174	10
191		16	max	.652	4	.085	4	0	1	0	1	0	1	.249	4
192			min	-.159	10	.016	10	0	1	0	1	0	1	-.213	5
193		17	max	.64	4	.074	4	0	1	0	1	0	1	.169	4
194			min	-.142	10	-.018	10	0	1	0	1	0	1	-.217	5
195		18	max	.627	4	.062	4	0	1	0	1	0	1	.101	4
196			min	-.125	10	-.053	5	0	1	0	1	0	1	-.183	5
197		19	max	.614	4	.05	4	0	1	0	1	0	1	.045	4
198			min	-.108	10	-.091	5	0	1	0	1	0	1	-.111	5
199		20	max	.602	4	.038	4	0	1	0	1	0	1	0	1
200			min	-.091	10	-.129	5	0	1	0	1	0	1	0	1
201	M56A	1	max	.281	10	.371	9	0	1	0	1	0	1	0	1
202			min	-1.072	3	-.001	2	0	1	0	1	0	1	0	1
203		2	max	.281	10	.266	9	0	1	0	1	0	1	.001	2
204			min	-1.072	3	-.001	2	0	1	0	1	0	1	-.436	9
205		3	max	.281	10	.162	9	0	1	0	1	0	1	.003	2
206			min	-1.072	3	-.001	2	0	1	0	1	0	1	-.729	9
207		4	max	.281	10	.057	9	0	1	0	1	0	1	.004	2
208			min	-1.072	3	-.001	2	0	1	0	1	0	1	-.879	9
209		5	max	.281	10	-.001	2	0	1	0	1	0	1	.006	2
210			min	-1.072	3	-.047	9	0	1	0	1	0	1	-.886	9
211		6	max	.281	10	-.001	2	0	1	0	1	0	1	.007	2
212			min	-1.072	3	-.151	9	0	1	0	1	0	1	-.751	9
213		7	max	.281	10	-.001	2	0	1	0	1	0	1	.009	2
214			min	-1.072	3	-.256	9	0	1	0	1	0	1	-.472	9
215		8	max	.281	10	-.001	2	0	1	0	1	0	1	.01	2

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	lc	y Shear[k]	lc	z Shear[k]	lc	Torque[k-ft]	lc	y-y Momen...	lc	z-z Momen...	lc
216			min	-1.072	3	-.36	9	0	1	0	1	0	1	-.051	9
217		9	max	.281	10	-.001	2	0	1	0	1	0	1	.514	9
218			min	-1.072	3	-.465	9	0	1	0	1	0	1	.012	2
219		10	max	.281	10	-.001	2	0	1	0	1	0	1	1.221	9
220			min	-1.072	3	-.569	9	0	1	0	1	0	1	.013	2
221		11	max	.281	10	.569	9	0	1	0	1	0	1	1.221	9
222			min	-1.072	3	.001	2	0	1	0	1	0	1	.013	2
223		12	max	.281	10	.465	9	0	1	0	1	0	1	.514	9
224			min	-1.072	3	.001	2	0	1	0	1	0	1	.012	2
225		13	max	.281	10	.36	9	0	1	0	1	0	1	.01	2
226			min	-1.072	3	.001	2	0	1	0	1	0	1	-.051	9
227		14	max	.281	10	.256	9	0	1	0	1	0	1	.009	2
228			min	-1.072	3	.001	2	0	1	0	1	0	1	-.472	9
229		15	max	.281	10	.151	9	0	1	0	1	0	1	.007	2
230			min	-1.072	3	.001	2	0	1	0	1	0	1	-.751	9
231		16	max	.281	10	.047	9	0	1	0	1	0	1	.006	2
232			min	-1.072	3	.001	2	0	1	0	1	0	1	-.886	9
233		17	max	.281	10	.001	2	0	1	0	1	0	1	.004	2
234			min	-1.072	3	-.057	9	0	1	0	1	0	1	-.879	9
235		18	max	.281	10	.001	2	0	1	0	1	0	1	.003	2
236			min	-1.072	3	-.162	9	0	1	0	1	0	1	-.729	9
237		19	max	.281	10	.001	2	0	1	0	1	0	1	.001	2
238			min	-1.072	3	-.266	9	0	1	0	1	0	1	-.436	9
239		20	max	.281	10	.001	2	0	1	0	1	0	1	0	1
240			min	-1.072	3	-.371	9	0	1	0	1	0	1	0	1
241	M44A	1	max	.728	3	.021	4	0	1	0	1	0	1	0	1
242			min	.22	1	0	2	0	1	0	1	0	1	0	1
243		2	max	.728	3	.019	4	0	1	0	1	0	1	0	2
244			min	.22	1	0	2	0	1	0	1	0	1	-.017	4
245		3	max	.728	3	.017	4	0	1	0	1	0	1	0	2
246			min	.22	1	0	2	0	1	0	1	0	1	-.032	4
247		4	max	.728	3	.014	4	0	1	0	1	0	1	0	2
248			min	.22	1	0	2	0	1	0	1	0	1	-.045	4
249		5	max	.728	3	.012	4	0	1	0	1	0	1	0	2
250			min	.22	1	0	2	0	1	0	1	0	1	-.056	4
251		6	max	.728	3	.01	4	0	1	0	1	0	1	0	2
252			min	.22	1	0	2	0	1	0	1	0	1	-.065	4
253		7	max	.728	3	.008	4	0	1	0	1	0	1	0	2
254			min	.22	1	0	2	0	1	0	1	0	1	-.073	4
255		8	max	.728	3	.006	4	0	1	0	1	0	1	0	2
256			min	.22	1	0	2	0	1	0	1	0	1	-.078	4
257		9	max	.728	3	.003	4	0	1	0	1	0	1	0	2
258			min	.22	1	0	2	0	1	0	1	0	1	-.082	4
259		10	max	.728	3	.001	4	0	1	0	1	0	1	0	2
260			min	.22	1	0	2	0	1	0	1	0	1	-.084	4
261		11	max	.728	3	0	2	0	1	0	1	0	1	0	2
262			min	.22	1	-.001	5	0	1	0	1	0	1	-.084	4
263		12	max	.728	3	0	2	0	1	0	1	0	1	0	2
264			min	.22	1	-.003	5	0	1	0	1	0	1	-.082	4
265		13	max	.728	3	0	2	0	1	0	1	0	1	0	2
266			min	.22	1	-.006	5	0	1	0	1	0	1	-.078	4
267		14	max	.728	3	0	2	0	1	0	1	0	1	0	2
268			min	.22	1	-.008	5	0	1	0	1	0	1	-.073	4
269		15	max	.728	3	0	2	0	1	0	1	0	1	0	2
270			min	.22	1	-.01	5	0	1	0	1	0	1	-.065	4
271		16	max	.728	3	0	2	0	1	0	1	0	1	0	2
272			min	.22	1	-.012	5	0	1	0	1	0	1	-.056	4

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	lc	y Shear[k]	lc	z Shear[k]	lc	Torque[k-ft]	lc	y-y Momen...	lc	z-z Momen...	lc
273		17	max	.728	3	0	2	0	1	0	1	0	1	0	2
274			min	.22	1	-.014	5	0	1	0	1	0	1	-.045	4
275		18	max	.728	3	0	2	0	1	0	1	0	1	0	2
276			min	.22	1	-.017	5	0	1	0	1	0	1	-.032	4
277		19	max	.728	3	0	2	0	1	0	1	0	1	0	2
278			min	.22	1	-.019	5	0	1	0	1	0	1	-.017	4
279		20	max	.728	3	0	2	0	1	0	1	0	1	0	1
280			min	.22	1	-.021	5	0	1	0	1	0	1	0	1
281	M8	1	max	1.782	6	0	1	0	1	0	1	0	1	0	1
282			min	.214	10	-.108	5	0	1	0	1	0	1	0	1
283		2	max	1.781	6	0	1	0	1	0	1	0	1	.042	5
284			min	.214	10	-.093	5	0	1	0	1	0	1	0	1
285		3	max	1.781	6	0	1	0	1	0	1	0	1	.078	5
286			min	.213	10	-.078	5	0	1	0	1	0	1	0	1
287		4	max	1.78	6	0	1	0	1	0	1	0	1	.108	5
288			min	.213	10	-.063	5	0	1	0	1	0	1	0	1
289		5	max	1.779	6	0	1	0	1	0	1	0	1	.131	5
290			min	.213	10	-.048	5	0	1	0	1	0	1	0	1
291		6	max	1.778	6	0	1	0	1	0	1	0	1	.148	5
292			min	.212	10	-.032	5	0	1	0	1	0	1	0	1
293		7	max	1.778	6	0	1	0	1	0	1	0	1	.159	5
294			min	.212	10	-.017	5	0	1	0	1	0	1	0	1
295		8	max	1.777	6	0	1	0	1	0	1	0	1	.163	5
296			min	.211	10	-.002	5	0	1	0	1	0	1	0	1
297		9	max	1.776	6	.013	10	0	1	0	1	0	1	.16	5
298			min	.211	10	0	3	0	1	0	1	0	1	0	1
299		10	max	1.775	6	.028	10	0	1	0	1	0	1	.152	5
300			min	.21	10	0	3	0	1	0	1	0	1	0	1
301		11	max	1.775	6	.043	10	0	1	0	1	0	1	.137	5
302			min	.21	10	0	3	0	1	0	1	0	1	0	1
303		12	max	1.774	6	.059	10	0	1	0	1	0	1	.115	5
304			min	.209	10	0	3	0	1	0	1	0	1	0	1
305		13	max	1.773	6	.074	10	0	1	0	1	0	1	.087	5
306			min	.209	10	0	3	0	1	0	1	0	1	0	1
307		14	max	1.772	6	.089	10	0	1	0	1	0	1	.053	5
308			min	.208	10	0	3	0	1	0	1	0	1	0	1
309		15	max	1.771	6	.104	10	0	1	0	1	0	1	.013	5
310			min	.208	10	0	3	0	1	0	1	0	1	0	1
311		16	max	1.771	6	.119	10	0	1	0	1	0	1	.003	3
312			min	.208	10	0	3	0	1	0	1	0	1	-.035	10
313		17	max	1.77	6	.134	10	0	1	0	1	0	1	.003	3
314			min	.207	10	0	3	0	1	0	1	0	1	-.088	10
315		18	max	1.769	6	.149	10	0	1	0	1	0	1	.003	3
316			min	.207	10	0	3	0	1	0	1	0	1	-.148	10
317		19	max	1.768	6	.165	10	0	1	0	1	0	1	.004	3
318			min	.206	10	0	3	0	1	0	1	0	1	-.214	10
319		20	max	1.768	6	.18	10	0	1	0	1	0	1	.004	3
320			min	.206	10	0	3	0	1	0	1	0	1	-.286	10
321	M9	1	max	1.599	12	0	1	0	1	0	1	0	1	0	1
322			min	.474	10	-.114	5	0	1	0	1	0	1	0	1
323		2	max	1.598	12	0	1	0	1	0	1	0	1	.045	5
324			min	.474	10	-.098	5	0	1	0	1	0	1	0	1
325		3	max	1.597	12	0	1	0	1	0	1	0	1	.083	5
326			min	.473	10	-.083	5	0	1	0	1	0	1	0	1
327		4	max	1.596	12	0	1	0	1	0	1	0	1	.115	5
328			min	.473	10	-.068	5	0	1	0	1	0	1	0	1
329		5	max	1.596	12	0	1	0	1	0	1	0	1	.14	5

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	lc	y Shear[k]	lc	z Shear[k]	lc	Torque[k-ft]	lc	y-y Momen...	lc	z-z Momen...	lc
330			min	.472	10	-.053	5	0	1	0	1	0	1	0	1
331		6	max	1.595	12	0	1	0	1	0	1	0	1	.159	5
332			min	.472	10	-.038	5	0	1	0	1	0	1	0	1
333		7	max	1.594	12	0	1	0	1	0	1	0	1	.172	5
334			min	.471	10	-.023	5	0	1	0	1	0	1	0	1
335		8	max	1.593	12	0	1	0	1	0	1	0	1	.178	5
336			min	.471	10	-.007	5	0	1	0	1	0	1	0	1
337		9	max	1.593	12	.008	5	0	1	0	1	0	1	.178	5
338			min	.47	10	0	1	0	1	0	1	0	1	0	1
339		10	max	1.592	12	.023	5	0	1	0	1	0	1	.172	5
340			min	.47	10	0	1	0	1	0	1	0	1	0	1
341		11	max	1.591	12	.038	5	0	1	0	1	0	1	.159	5
342			min	.469	10	0	1	0	1	0	1	0	1	0	1
343		12	max	1.59	12	.053	5	0	1	0	1	0	1	.14	5
344			min	.469	10	0	1	0	1	0	1	0	1	0	1
345		13	max	1.59	12	.068	5	0	1	0	1	0	1	.114	5
346			min	.468	10	0	1	0	1	0	1	0	1	0	1
347		14	max	1.589	12	.083	5	0	1	0	1	0	1	.082	5
348			min	.468	10	0	1	0	1	0	1	0	1	0	1
349		15	max	1.588	12	.099	5	0	1	0	1	0	1	.044	5
350			min	.468	10	0	1	0	1	0	1	0	1	0	1
351		16	max	1.587	12	.114	5	0	1	0	1	0	1	0	1
352			min	.467	10	0	1	0	1	0	1	0	1	0	5
353		17	max	1.587	12	.129	5	0	1	0	1	0	1	0	1
354			min	.467	10	0	1	0	1	0	1	0	1	-.052	5
355		18	max	1.586	12	.144	5	0	1	0	1	0	1	0	1
356			min	.466	10	0	1	0	1	0	1	0	1	-.109	5
357		19	max	1.585	12	.159	5	0	1	0	1	0	1	0	1
358			min	.466	10	0	1	0	1	0	1	0	1	-.173	5
359		20	max	1.584	12	.174	5	0	1	0	1	0	1	0	1
360			min	.465	10	0	1	0	1	0	1	0	1	-.244	5
361	M10	1	max	.108	5	.372	9	0	1	0	1	0	1	0	1
362			min	0	1	0	2	0	1	0	1	0	1	0	1
363		2	max	.108	5	.268	9	0	1	0	1	0	1	0	2
364			min	0	1	0	2	0	1	0	1	0	1	-.438	9
365		3	max	.108	5	.163	9	0	1	0	1	0	1	0	2
366			min	0	1	0	2	0	1	0	1	0	1	-.732	9
367		4	max	.108	5	.059	9	0	1	0	1	0	1	0	2
368			min	0	1	0	2	0	1	0	1	0	1	-.884	9
369		5	max	.108	5	0	2	0	1	0	1	0	1	0	2
370			min	0	1	-.046	9	0	1	0	1	0	1	-.893	9
371		6	max	.108	5	0	2	0	1	0	1	0	1	0	2
372			min	0	1	-.15	9	0	1	0	1	0	1	-.759	9
373		7	max	.108	5	0	2	0	1	0	1	0	1	0	2
374			min	0	1	-.254	9	0	1	0	1	0	1	-.482	9
375		8	max	.108	5	0	2	0	1	0	1	0	1	0	2
376			min	0	1	-.359	9	0	1	0	1	0	1	-.063	9
377		9	max	.108	5	0	2	0	1	0	1	0	1	.5	9
378			min	0	1	-.463	9	0	1	0	1	0	1	0	2
379		10	max	.108	5	0	2	0	1	0	1	0	1	1.205	9
380			min	0	1	-.568	9	0	1	0	1	0	1	0	2
381		11	max	.108	5	.568	9	0	1	0	1	0	1	1.205	9
382			min	0	1	0	2	0	1	0	1	0	1	0	2
383		12	max	.108	5	.463	9	0	1	0	1	0	1	.5	9
384			min	0	1	0	2	0	1	0	1	0	1	0	2
385		13	max	.108	5	.359	9	0	1	0	1	0	1	0	2
386			min	0	1	0	2	0	1	0	1	0	1	-.063	9

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	lc	y Shear[k]	lc	z Shear[k]	lc	Torque[k-ft]	lc	y-y Momen...	lc	z-z Momen...	lc
387		14	max	.108	5	.254	9	0	1	0	1	0	1	0	2
388			min	0	1	0	2	0	1	0	1	0	1	-.482	9
389		15	max	.108	5	.15	9	0	1	0	1	0	1	0	2
390			min	0	1	0	2	0	1	0	1	0	1	-.759	9
391		16	max	.108	5	.046	9	0	1	0	1	0	1	0	2
392			min	0	1	0	2	0	1	0	1	0	1	-.893	9
393		17	max	.108	5	0	2	0	1	0	1	0	1	0	2
394			min	0	1	-.059	9	0	1	0	1	0	1	-.884	9
395		18	max	.108	5	0	2	0	1	0	1	0	1	0	2
396			min	0	1	-.163	9	0	1	0	1	0	1	-.732	9
397		19	max	.108	5	0	2	0	1	0	1	0	1	0	2
398			min	0	1	-.268	9	0	1	0	1	0	1	-.438	9
399		20	max	.108	5	0	2	0	1	0	1	0	1	0	1
400			min	0	1	-.372	9	0	1	0	1	0	1	0	1
401	M11	1	max	1.018	4	0	1	0	1	0	1	0	1	0	1
402			min	.234	1	-.144	5	0	1	0	1	0	1	-.177	5
403		2	max	1.018	4	0	1	0	1	0	1	0	1	0	1
404			min	.233	1	-.132	5	0	1	0	1	0	1	-.13	5
405		3	max	1.017	4	0	1	0	1	0	1	0	1	0	1
406			min	.232	1	-.12	5	0	1	0	1	0	1	-.087	5
407		4	max	1.017	4	0	1	0	1	0	1	0	1	0	1
408			min	.232	1	-.107	5	0	1	0	1	0	1	-.048	5
409		5	max	1.016	4	0	1	0	1	0	1	0	1	0	1
410			min	.231	1	-.095	5	0	1	0	1	0	1	-.013	5
411		6	max	1.015	4	0	1	0	1	0	1	0	1	.017	5
412			min	.231	1	-.083	5	0	1	0	1	0	1	0	1
413		7	max	1.015	4	0	1	0	1	0	1	0	1	.043	5
414			min	.23	1	-.07	5	0	1	0	1	0	1	0	1
415		8	max	1.014	4	0	1	0	1	0	1	0	1	.065	5
416			min	.229	1	-.058	5	0	1	0	1	0	1	0	1
417		9	max	1.013	4	0	1	0	1	0	1	0	1	.083	5
418			min	.229	1	-.046	5	0	1	0	1	0	1	0	1
419		10	max	1.013	4	0	1	0	1	0	1	0	1	.097	5
420			min	.228	1	-.033	5	0	1	0	1	0	1	0	1
421		11	max	1.012	4	0	1	0	1	0	1	0	1	.106	5
422			min	.227	1	-.021	5	0	1	0	1	0	1	0	1
423		12	max	1.012	4	0	1	0	1	0	1	0	1	.111	5
424			min	.227	1	-.009	5	0	1	0	1	0	1	0	1
425		13	max	1.011	4	.004	5	0	1	0	1	0	1	.112	5
426			min	.226	1	0	1	0	1	0	1	0	1	0	1
427		14	max	1.01	4	.016	5	0	1	0	1	0	1	.108	5
428			min	.226	1	0	1	0	1	0	1	0	1	0	1
429		15	max	1.01	4	.028	5	0	1	0	1	0	1	.101	5
430			min	.225	1	0	1	0	1	0	1	0	1	0	1
431		16	max	1.009	4	.041	5	0	1	0	1	0	1	.089	5
432			min	.224	1	0	1	0	1	0	1	0	1	0	1
433		17	max	1.009	4	.053	5	0	1	0	1	0	1	.073	5
434			min	.224	1	0	1	0	1	0	1	0	1	0	1
435		18	max	1.008	4	.065	5	0	1	0	1	0	1	.053	5
436			min	.223	1	0	1	0	1	0	1	0	1	0	1
437		19	max	1.007	4	.077	5	0	1	0	1	0	1	.029	5
438			min	.223	1	0	1	0	1	0	1	0	1	0	1
439		20	max	1.007	4	.09	5	0	1	0	1	0	1	0	1
440			min	.222	1	0	1	0	1	0	1	0	1	0	1

Envelope Member Section Stresses

	Member	Sec		Axial[ksi]	lc	y Shear[...	lc	z Shear[...	lc	y-Top[ksi]	lc	y-Bot[ksi]	lc	z-Top[ksi]	lc	z-Bot[ksi]	lc
1	M43	1	max	.204	3	0	3	0	1	.652	10	.008	3	0	1	0	1
2			min	.019	10	-.036	10	0	1	-.008	3	-.652	10	0	1	0	1
3		2	max	.203	3	0	3	0	1	.487	10	.008	3	0	1	0	1
4			min	.018	10	-.033	10	0	1	-.008	3	-.487	10	0	1	0	1
5		3	max	.203	3	0	3	0	1	.337	10	.008	3	0	1	0	1
6			min	.018	10	-.03	10	0	1	-.008	3	-.337	10	0	1	0	1
7		4	max	.203	3	0	3	0	1	.2	10	.007	3	0	1	0	1
8			min	.018	10	-.027	10	0	1	-.007	3	-.2	10	0	1	0	1
9		5	max	.203	3	0	3	0	1	.079	10	.007	3	0	1	0	1
10			min	.018	10	-.024	10	0	1	-.007	3	-.079	10	0	1	0	1
11		6	max	.203	3	0	3	0	1	-.002	1	.029	5	0	1	0	1
12			min	.018	10	-.021	10	0	1	-.029	5	.002	1	0	1	0	1
13		7	max	.203	3	0	3	0	1	-.002	1	.121	5	0	1	0	1
14			min	.018	10	-.018	10	0	1	-.121	5	.002	1	0	1	0	1
15		8	max	.203	3	0	3	0	1	-.002	1	.199	5	0	1	0	1
16			min	.018	10	-.015	10	0	1	-.199	5	.002	1	0	1	0	1
17		9	max	.203	3	0	3	0	1	-.001	1	.263	5	0	1	0	1
18			min	.018	10	-.012	10	0	1	-.263	5	.001	1	0	1	0	1
19		10	max	.203	3	0	3	0	1	-.001	1	.311	5	0	1	0	1
20			min	.018	10	-.009	10	0	1	-.311	5	.001	1	0	1	0	1
21		11	max	.202	3	0	3	0	1	-.001	1	.346	5	0	1	0	1
22			min	.018	10	-.006	10	0	1	-.346	5	.001	1	0	1	0	1
23		12	max	.202	3	0	3	0	1	-.001	9	.365	5	0	1	0	1
24			min	.018	10	-.003	10	0	1	-.365	5	.001	9	0	1	0	1
25		13	max	.202	3	0	5	0	1	0	9	.371	5	0	1	0	1
26			min	.018	10	0	1	0	1	-.371	5	0	9	0	1	0	1
27		14	max	.202	3	.003	5	0	1	0	9	.361	5	0	1	0	1
28			min	.018	10	0	1	0	1	-.361	5	0	9	0	1	0	1
29		15	max	.202	3	.007	5	0	1	0	9	.337	5	0	1	0	1
30			min	.018	10	0	1	0	1	-.337	5	0	9	0	1	0	1
31		16	max	.202	3	.01	5	0	1	0	9	.299	5	0	1	0	1
32			min	.018	10	0	1	0	1	-.299	5	0	9	0	1	0	1
33		17	max	.202	3	.013	5	0	1	0	9	.246	5	0	1	0	1
34			min	.018	10	0	1	0	1	-.246	5	0	9	0	1	0	1
35		18	max	.202	3	.016	5	0	1	0	9	.179	5	0	1	0	1
36			min	.017	10	0	1	0	1	-.179	5	0	9	0	1	0	1
37		19	max	.202	3	.019	5	0	1	0	9	.097	5	0	1	0	1
38			min	.017	10	0	1	0	1	-.097	5	0	9	0	1	0	1
39		20	max	.202	3	.022	5	0	1	0	1	0	1	0	1	0	1
40			min	.017	10	0	1	0	1	0	1	0	1	0	1	0	1
41	M44	1	max	.172	12	0	1	0	1	.555	5	0	1	0	1	0	1
42			min	.049	1	-.031	5	0	1	0	1	-.555	5	0	1	0	1
43		2	max	.172	12	0	1	0	1	.416	5	0	1	0	1	0	1
44			min	.048	1	-.028	5	0	1	0	1	-.416	5	0	1	0	1
45		3	max	.172	12	0	1	0	1	.292	5	0	1	0	1	0	1
46			min	.048	1	-.025	5	0	1	0	1	-.292	5	0	1	0	1
47		4	max	.172	12	0	1	0	1	.182	5	0	1	0	1	0	1
48			min	.048	1	-.022	5	0	1	0	1	-.182	5	0	1	0	1
49		5	max	.171	12	0	1	0	1	.087	5	0	1	0	1	0	1
50			min	.048	1	-.018	5	0	1	0	1	-.087	5	0	1	0	1
51		6	max	.171	12	0	1	0	1	.006	5	0	1	0	1	0	1
52			min	.048	1	-.015	5	0	1	0	1	-.006	5	0	1	0	1
53		7	max	.171	12	0	1	0	1	0	1	.06	5	0	1	0	1
54			min	.048	1	-.012	5	0	1	-.06	5	0	1	0	1	0	1
55		8	max	.171	12	0	1	0	1	0	1	.112	5	0	1	0	1
56			min	.048	1	-.009	5	0	1	-.112	5	0	1	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	lc	y Shear[...	lc	z Shear[...	lc	y-Top[ksi]	lc	y-Bot[ksi]	lc	z-Top[ksi]	lc	z-Bot[ksi]	lc
57		9	max	.171	12	0	1	0	1	0	1	.149	5	0	1	0	1
58			min	.048	1	-.006	5	0	1	-.149	5	0	1	0	1	0	1
59		10	max	.171	12	0	1	0	1	0	1	.171	5	0	1	0	1
60			min	.048	1	-.003	5	0	1	-.171	5	0	1	0	1	0	1
61		11	max	.171	12	0	1	0	1	0	1	.179	5	0	1	0	1
62			min	.048	1	0	5	0	1	-.179	5	0	1	0	1	0	1
63		12	max	.171	12	.003	5	0	1	0	1	.173	5	0	1	0	1
64			min	.047	1	0	1	0	1	-.173	5	0	1	0	1	0	1
65		13	max	.171	12	.006	5	0	1	0	1	.152	5	0	1	0	1
66			min	.047	1	0	1	0	1	-.152	5	0	1	0	1	0	1
67		14	max	.17	12	.009	5	0	1	0	1	.116	5	0	1	0	1
68			min	.047	1	0	1	0	1	-.116	5	0	1	0	1	0	1
69		15	max	.17	12	.012	5	0	1	0	1	.066	5	0	1	0	1
70			min	.047	1	0	1	0	1	-.066	5	0	1	0	1	0	1
71		16	max	.17	12	.015	5	0	1	0	1	.001	5	0	1	0	1
72			min	.047	1	0	1	0	1	-.001	5	0	1	0	1	0	1
73		17	max	.17	12	.018	5	0	1	.078	5	0	1	0	1	0	1
74			min	.047	1	0	1	0	1	0	1	-.078	5	0	1	0	1
75		18	max	.17	12	.021	5	0	1	.172	5	0	1	0	1	0	1
76			min	.047	1	0	1	0	1	0	1	-.172	5	0	1	0	1
77		19	max	.17	12	.024	5	0	1	.28	5	0	1	0	1	0	1
78			min	.047	1	0	1	0	1	0	1	-.28	5	0	1	0	1
79		20	max	.17	12	.027	5	0	1	.403	5	0	1	0	1	0	1
80			min	.047	1	0	1	0	1	0	1	-.403	5	0	1	0	1
81	M45	1	max	.027	10	.041	9	0	1	0	1	0	1	0	1	0	1
82			min	0	3	0	2	0	1	0	1	0	1	0	1	0	1
83		2	max	.027	10	.03	9	0	1	.299	9	0	2	0	1	0	1
84			min	0	3	0	2	0	1	0	2	-.299	9	0	1	0	1
85		3	max	.027	10	.018	9	0	1	.5	9	.001	2	0	1	0	1
86			min	0	3	0	2	0	1	-.001	2	-.5	9	0	1	0	1
87		4	max	.027	10	.006	9	0	1	.603	9	.002	2	0	1	0	1
88			min	0	3	0	2	0	1	-.002	2	-.603	9	0	1	0	1
89		5	max	.027	10	0	2	0	1	.609	9	.002	2	0	1	0	1
90			min	0	3	-.005	9	0	1	-.002	2	-.609	9	0	1	0	1
91		6	max	.027	10	0	2	0	1	.516	9	.003	2	0	1	0	1
92			min	0	3	-.017	9	0	1	-.003	2	-.516	9	0	1	0	1
93		7	max	.027	10	0	2	0	1	.326	9	.003	2	0	1	0	1
94			min	0	3	-.028	9	0	1	-.003	2	-.326	9	0	1	0	1
95		8	max	.027	10	0	2	0	1	.038	9	.004	2	0	1	0	1
96			min	0	3	-.04	9	0	1	-.004	2	-.038	9	0	1	0	1
97		9	max	.027	10	0	2	0	1	-.004	2	.348	9	0	1	0	1
98			min	0	3	-.051	9	0	1	-.348	9	.004	2	0	1	0	1
99		10	max	.027	10	0	2	0	1	-.005	2	.832	9	0	1	0	1
100			min	0	3	-.063	9	0	1	-.832	9	.005	2	0	1	0	1
101		11	max	.027	10	.063	9	0	1	-.005	2	.832	9	0	1	0	1
102			min	0	3	0	2	0	1	-.832	9	.005	2	0	1	0	1
103		12	max	.027	10	.051	9	0	1	-.004	2	.348	9	0	1	0	1
104			min	0	3	0	2	0	1	-.348	9	.004	2	0	1	0	1
105		13	max	.027	10	.04	9	0	1	.038	9	.004	2	0	1	0	1
106			min	0	3	0	2	0	1	-.004	2	-.038	9	0	1	0	1
107		14	max	.027	10	.028	9	0	1	.326	9	.003	2	0	1	0	1
108			min	0	3	0	2	0	1	-.003	2	-.326	9	0	1	0	1
109		15	max	.027	10	.017	9	0	1	.516	9	.003	2	0	1	0	1
110			min	0	3	0	2	0	1	-.003	2	-.516	9	0	1	0	1
111		16	max	.027	10	.005	9	0	1	.609	9	.002	2	0	1	0	1
112			min	0	3	0	2	0	1	-.002	2	-.609	9	0	1	0	1
113		17	max	.027	10	0	2	0	1	.603	9	.002	2	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	lc	y Shear[...	lc	z Shear[...	lc	y-Top[ksi]	lc	y-Bot[ksi]	lc	z-Top[ksi]	lc	z-Bot[ksi]	lc
114			min	0	3	-.006	9	0	1	-.002	2	-.603	9	0	1	0	1
115		18	max	.027	10	0	2	0	1	.5	9	.001	2	0	1	0	1
116			min	0	3	-.018	9	0	1	-.001	2	-.5	9	0	1	0	1
117		19	max	.027	10	0	2	0	1	.299	9	0	2	0	1	0	1
118			min	0	3	-.03	9	0	1	0	2	-.299	9	0	1	0	1
119		20	max	.027	10	0	2	0	1	0	1	0	1	0	1	0	1
120			min	0	3	-.041	9	0	1	0	1	0	1	0	1	0	1
121	M46	1	max	.095	11	.044	4	0	1	0	1	0	1	0	1	0	1
122			min	.022	9	-.023	10	0	1	0	1	0	1	0	1	0	1
123		2	max	.092	11	.038	4	0	1	.138	4	.075	10	0	1	0	1
124			min	.022	9	-.022	10	0	1	-.075	10	-.138	4	0	1	0	1
125		3	max	.089	11	.032	4	0	1	.256	4	.149	10	0	1	0	1
126			min	.022	9	-.021	10	0	1	-.149	10	-.256	4	0	1	0	1
127		4	max	.086	11	.026	4	0	1	.354	4	.22	10	0	1	0	1
128			min	.021	9	-.021	10	0	1	-.22	10	-.354	4	0	1	0	1
129		5	max	.051	11	.035	4	0	1	.442	4	.275	10	0	1	0	1
130			min	.009	1	0	10	0	1	-.275	10	-.442	4	0	1	0	1
131		6	max	.048	11	.03	4	0	1	.552	4	.271	10	0	1	0	1
132			min	.009	1	.001	10	0	1	-.271	10	-.552	4	0	1	0	1
133		7	max	.046	11	.024	4	0	1	.641	4	.266	10	0	1	0	1
134			min	.008	1	.002	10	0	1	-.266	10	-.641	4	0	1	0	1
135		8	max	.043	11	.018	4	0	1	.711	4	.259	10	0	1	0	1
136			min	.008	1	.003	10	0	1	-.259	10	-.711	4	0	1	0	1
137		9	max	.04	11	.013	3	0	1	.761	4	.249	10	0	1	0	1
138			min	.007	1	.003	9	0	1	-.249	10	-.761	4	0	1	0	1
139		10	max	.037	11	.008	3	0	1	.791	4	.237	10	0	1	0	1
140			min	.007	1	.002	9	0	1	-.237	10	-.791	4	0	1	0	1
141		11	max	.034	11	.005	5	0	1	.801	4	.223	10	0	1	0	1
142			min	.007	1	0	4	0	1	-.223	10	-.801	4	0	1	0	1
143		12	max	.031	11	.005	5	0	1	.791	4	.207	10	0	1	0	1
144			min	.006	1	-.006	4	0	1	-.207	10	-.791	4	0	1	0	1
145		13	max	.028	11	.006	10	0	1	.762	4	.188	10	0	1	0	1
146			min	.006	1	-.012	4	0	1	-.188	10	-.762	4	0	1	0	1
147		14	max	.025	11	.006	10	0	1	.713	4	.168	10	0	1	0	1
148			min	.005	1	-.018	4	0	1	-.168	10	-.713	4	0	1	0	1
149		15	max	.022	11	.007	10	0	1	.643	4	.145	10	0	1	0	1
150			min	.005	1	-.023	4	0	1	-.145	10	-.643	4	0	1	0	1
151		16	max	.02	11	.008	10	0	1	.554	4	.121	10	0	1	0	1
152			min	.005	1	-.029	4	0	1	-.121	10	-.554	4	0	1	0	1
153		17	max	.017	11	.008	10	0	1	.446	4	.094	10	0	1	0	1
154			min	.004	1	-.035	4	0	1	-.094	10	-.446	4	0	1	0	1
155		18	max	.014	11	.009	10	0	1	.317	4	.065	10	0	1	0	1
156			min	.004	1	-.041	4	0	1	-.065	10	-.317	4	0	1	0	1
157		19	max	.012	3	.01	10	0	1	.168	4	.033	10	0	1	0	1
158			min	.003	1	-.047	4	0	1	-.033	10	-.168	4	0	1	0	1
159		20	max	.01	3	.01	10	0	1	0	1	0	1	0	1	0	1
160			min	.003	1	-.053	4	0	1	0	1	0	1	0	1	0	1
161	M47	1	max	.103	3	.017	5	0	1	0	1	0	1	0	1	0	1
162			min	-.004	10	0	4	0	1	0	1	0	1	0	1	0	1
163		2	max	.101	3	.013	5	0	1	.064	5	.003	4	0	1	0	1
164			min	-.003	10	-.001	4	0	1	-.003	4	-.064	5	0	1	0	1
165		3	max	.098	3	.01	5	0	1	.114	5	.01	4	0	1	0	1
166			min	-.002	10	-.002	4	0	1	-.01	4	-.114	5	0	1	0	1
167		4	max	.096	3	.007	5	0	1	.149	5	.021	4	0	1	0	1
168			min	-.001	10	-.003	4	0	1	-.021	4	-.149	5	0	1	0	1
169		5	max	.093	3	.003	5	0	1	.17	5	.037	4	0	1	0	1
170			min	0	10	-.004	4	0	1	-.037	4	-.17	5	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	lc	y Shear[...	lc	z Shear[...	lc	y-Top[ksi]	lc	y-Bot[ksi]	lc	z-Top[ksi]	lc	z-Bot[ksi]	lc
171		6	max	.091	3	0	10	0	1	.176	5	.058	4	0	1	0	1
172			min	0	10	-.005	4	0	1	-.058	4	-.176	5	0	1	0	1
173		7	max	.088	3	-.002	9	0	1	.167	5	.083	4	0	1	0	1
174			min	.002	10	-.007	3	0	1	-.083	4	-.167	5	0	1	0	1
175		8	max	.086	3	-.003	9	0	1	.144	5	.112	4	0	1	0	1
176			min	.003	10	-.011	3	0	1	-.112	4	-.144	5	0	1	0	1
177		9	max	.083	3	-.004	9	0	1	.107	5	.146	4	0	1	0	1
178			min	.004	10	-.014	3	0	1	-.146	4	-.107	5	0	1	0	1
179		10	max	.08	3	-.005	9	0	1	.061	10	.184	4	0	1	0	1
180			min	.005	10	-.018	3	0	1	-.184	4	-.061	10	0	1	0	1
181		11	max	.078	3	-.006	9	0	1	.003	10	.227	4	0	1	0	1
182			min	.006	10	-.022	3	0	1	-.227	4	-.003	10	0	1	0	1
183		12	max	.045	3	.021	3	0	1	-.048	10	.26	4	0	1	0	1
184			min	-.013	10	.006	9	0	1	-.26	4	.048	10	0	1	0	1
185		13	max	.042	3	.017	3	0	1	.003	10	.212	4	0	1	0	1
186			min	-.012	10	.005	9	0	1	-.212	4	-.003	10	0	1	0	1
187		14	max	.04	4	.014	3	0	1	.041	10	.168	4	0	1	0	1
188			min	-.011	10	.004	9	0	1	-.168	4	-.041	10	0	1	0	1
189		15	max	.039	4	.01	3	0	1	.066	10	.129	4	0	1	0	1
190			min	-.01	10	.003	9	0	1	-.129	4	-.066	10	0	1	0	1
191		16	max	.039	4	.008	4	0	1	.081	5	.094	4	0	1	0	1
192			min	-.009	10	.001	10	0	1	-.094	4	-.081	5	0	1	0	1
193		17	max	.038	4	.007	4	0	1	.082	5	.064	4	0	1	0	1
194			min	-.008	10	-.002	10	0	1	-.064	4	-.082	5	0	1	0	1
195		18	max	.037	4	.006	4	0	1	.07	5	.038	4	0	1	0	1
196			min	-.007	10	-.005	5	0	1	-.038	4	-.07	5	0	1	0	1
197		19	max	.036	4	.004	4	0	1	.042	5	.017	4	0	1	0	1
198			min	-.006	10	-.008	5	0	1	-.017	4	-.042	5	0	1	0	1
199		20	max	.036	4	.003	4	0	1	0	1	0	1	0	1	0	1
200			min	-.005	10	-.012	5	0	1	0	1	0	1	0	1	0	1
201	M56A	1	max	.021	10	.041	9	0	1	0	1	0	1	0	1	0	1
202			min	-.079	3	0	2	0	1	0	1	0	1	0	1	0	1
203		2	max	.021	10	.029	9	0	1	.299	9	.001	2	0	1	0	1
204			min	-.079	3	0	2	0	1	-.001	2	-.299	9	0	1	0	1
205		3	max	.021	10	.018	9	0	1	.499	9	.002	2	0	1	0	1
206			min	-.079	3	0	2	0	1	-.002	2	-.499	9	0	1	0	1
207		4	max	.021	10	.006	9	0	1	.602	9	.003	2	0	1	0	1
208			min	-.079	3	0	2	0	1	-.003	2	-.602	9	0	1	0	1
209		5	max	.021	10	0	2	0	1	.607	9	.004	2	0	1	0	1
210			min	-.079	3	-.005	9	0	1	-.004	2	-.607	9	0	1	0	1
211		6	max	.021	10	0	2	0	1	.514	9	.005	2	0	1	0	1
212			min	-.079	3	-.017	9	0	1	-.005	2	-.514	9	0	1	0	1
213		7	max	.021	10	0	2	0	1	.323	9	.006	2	0	1	0	1
214			min	-.079	3	-.028	9	0	1	-.006	2	-.323	9	0	1	0	1
215		8	max	.021	10	0	2	0	1	.035	9	.007	2	0	1	0	1
216			min	-.079	3	-.04	9	0	1	-.007	2	-.035	9	0	1	0	1
217		9	max	.021	10	0	2	0	1	-.008	2	.352	9	0	1	0	1
218			min	-.079	3	-.051	9	0	1	-.352	9	.008	2	0	1	0	1
219		10	max	.021	10	0	2	0	1	-.009	2	.836	9	0	1	0	1
220			min	-.079	3	-.063	9	0	1	-.836	9	.009	2	0	1	0	1
221		11	max	.021	10	.063	9	0	1	-.009	2	.836	9	0	1	0	1
222			min	-.079	3	0	2	0	1	-.836	9	.009	2	0	1	0	1
223		12	max	.021	10	.051	9	0	1	-.008	2	.352	9	0	1	0	1
224			min	-.079	3	0	2	0	1	-.352	9	.008	2	0	1	0	1
225		13	max	.021	10	.04	9	0	1	.035	9	.007	2	0	1	0	1
226			min	-.079	3	0	2	0	1	-.007	2	-.035	9	0	1	0	1
227		14	max	.021	10	.028	9	0	1	.323	9	.006	2	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	lc	y Shear[...	lc	z Shear[...	lc	y-Top[ksi]	lc	y-Bot[ksi]	lc	z-Top[ksi]	lc	z-Bot[ksi]	lc
228			min	-.079	3	0	2	0	1	-.006	2	-.323	9	0	1	0	1
229		15	max	.021	10	.017	9	0	1	.514	9	.005	2	0	1	0	1
230			min	-.079	3	0	2	0	1	-.005	2	-.514	9	0	1	0	1
231		16	max	.021	10	.005	9	0	1	.607	9	.004	2	0	1	0	1
232			min	-.079	3	0	2	0	1	-.004	2	-.607	9	0	1	0	1
233		17	max	.021	10	0	2	0	1	.602	9	.003	2	0	1	0	1
234			min	-.079	3	-.006	9	0	1	-.003	2	-.602	9	0	1	0	1
235		18	max	.021	10	0	2	0	1	.499	9	.002	2	0	1	0	1
236			min	-.079	3	-.018	9	0	1	-.002	2	-.499	9	0	1	0	1
237		19	max	.021	10	0	2	0	1	.299	9	.001	2	0	1	0	1
238			min	-.079	3	-.029	9	0	1	-.001	2	-.299	9	0	1	0	1
239		20	max	.021	10	0	2	0	1	0	1	0	1	0	1	0	1
240			min	-.079	3	-.041	9	0	1	0	1	0	1	0	1	0	1
241	M44A	1	max	.067	3	.003	4	0	1	0	1	0	1	0	1	0	1
242			min	.02	1	0	2	0	1	0	1	0	1	0	1	0	1
243		2	max	.067	3	.003	4	0	1	.015	4	0	2	0	1	0	1
244			min	.02	1	0	2	0	1	0	2	-.015	4	0	1	0	1
245		3	max	.067	3	.002	4	0	1	.029	4	0	2	0	1	0	1
246			min	.02	1	0	2	0	1	0	2	-.029	4	0	1	0	1
247		4	max	.067	3	.002	4	0	1	.041	4	0	2	0	1	0	1
248			min	.02	1	0	2	0	1	0	2	-.041	4	0	1	0	1
249		5	max	.067	3	.002	4	0	1	.051	4	0	2	0	1	0	1
250			min	.02	1	0	2	0	1	0	2	-.051	4	0	1	0	1
251		6	max	.067	3	.001	4	0	1	.06	4	0	2	0	1	0	1
252			min	.02	1	0	2	0	1	0	2	-.06	4	0	1	0	1
253		7	max	.067	3	.001	4	0	1	.067	4	0	2	0	1	0	1
254			min	.02	1	0	2	0	1	0	2	-.067	4	0	1	0	1
255		8	max	.067	3	0	4	0	1	.072	4	0	2	0	1	0	1
256			min	.02	1	0	2	0	1	0	2	-.072	4	0	1	0	1
257		9	max	.067	3	0	4	0	1	.075	4	0	2	0	1	0	1
258			min	.02	1	0	2	0	1	0	2	-.075	4	0	1	0	1
259		10	max	.067	3	0	4	0	1	.077	4	0	2	0	1	0	1
260			min	.02	1	0	2	0	1	0	2	-.077	4	0	1	0	1
261		11	max	.067	3	0	2	0	1	.077	4	0	2	0	1	0	1
262			min	.02	1	0	5	0	1	0	2	-.077	4	0	1	0	1
263		12	max	.067	3	0	2	0	1	.075	4	0	2	0	1	0	1
264			min	.02	1	0	5	0	1	0	2	-.075	4	0	1	0	1
265		13	max	.067	3	0	2	0	1	.072	4	0	2	0	1	0	1
266			min	.02	1	0	5	0	1	0	2	-.072	4	0	1	0	1
267		14	max	.067	3	0	2	0	1	.067	4	0	2	0	1	0	1
268			min	.02	1	-.001	5	0	1	0	2	-.067	4	0	1	0	1
269		15	max	.067	3	0	2	0	1	.06	4	0	2	0	1	0	1
270			min	.02	1	-.001	5	0	1	0	2	-.06	4	0	1	0	1
271		16	max	.067	3	0	2	0	1	.051	4	0	2	0	1	0	1
272			min	.02	1	-.002	5	0	1	0	2	-.051	4	0	1	0	1
273		17	max	.067	3	0	2	0	1	.041	4	0	2	0	1	0	1
274			min	.02	1	-.002	5	0	1	0	2	-.041	4	0	1	0	1
275		18	max	.067	3	0	2	0	1	.029	4	0	2	0	1	0	1
276			min	.02	1	-.002	5	0	1	0	2	-.029	4	0	1	0	1
277		19	max	.067	3	0	2	0	1	.015	4	0	2	0	1	0	1
278			min	.02	1	-.003	5	0	1	0	2	-.015	4	0	1	0	1
279		20	max	.067	3	0	2	0	1	0	1	0	1	0	1	0	1
280			min	.02	1	-.003	5	0	1	0	1	0	1	0	1	0	1
281	M8	1	max	.24	6	0	1	0	1	0	1	0	1	0	1	0	1
282			min	.029	10	-.022	5	0	1	0	1	0	1	0	1	0	1
283		2	max	.24	6	0	1	0	1	0	1	.097	5	0	1	0	1
284			min	.029	10	-.019	5	0	1	-.097	5	0	1	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	lc	y Shear[...	lc	z Shear[...	lc	y-Top[ksi]	lc	y-Bot[ksi]	lc	z-Top[ksi]	lc	z-Bot[ksi]	lc
285		3	max	.239	6	0	1	0	1	0	1	.179	5	0	1	0	1
286			min	.029	10	-.016	5	0	1	-.179	5	0	1	0	1	0	1
287		4	max	.239	6	0	1	0	1	0	1	.246	5	0	1	0	1
288			min	.029	10	-.013	5	0	1	-.246	5	0	1	0	1	0	1
289		5	max	.239	6	0	1	0	1	0	1	.299	5	0	1	0	1
290			min	.029	10	-.01	5	0	1	-.299	5	0	1	0	1	0	1
291		6	max	.239	6	0	1	0	1	0	1	.337	5	0	1	0	1
292			min	.029	10	-.007	5	0	1	-.337	5	0	1	0	1	0	1
293		7	max	.239	6	0	1	0	1	0	1	.361	5	0	1	0	1
294			min	.028	10	-.003	5	0	1	-.361	5	0	1	0	1	0	1
295		8	max	.239	6	0	1	0	1	0	1	.371	5	0	1	0	1
296			min	.028	10	0	5	0	1	-.371	5	0	1	0	1	0	1
297		9	max	.239	6	.003	10	0	1	-.001	1	.365	5	0	1	0	1
298			min	.028	10	0	3	0	1	-.365	5	.001	1	0	1	0	1
299		10	max	.239	6	.006	10	0	1	-.001	1	.346	5	0	1	0	1
300			min	.028	10	0	3	0	1	-.346	5	.001	1	0	1	0	1
301		11	max	.239	6	.009	10	0	1	-.001	1	.311	5	0	1	0	1
302			min	.028	10	0	3	0	1	-.311	5	.001	1	0	1	0	1
303		12	max	.238	6	.012	10	0	1	-.001	1	.263	5	0	1	0	1
304			min	.028	10	0	3	0	1	-.263	5	.001	1	0	1	0	1
305		13	max	.238	6	.015	10	0	1	-.002	1	.199	5	0	1	0	1
306			min	.028	10	0	3	0	1	-.199	5	.002	1	0	1	0	1
307		14	max	.238	6	.018	10	0	1	-.002	1	.121	5	0	1	0	1
308			min	.028	10	0	3	0	1	-.121	5	.002	1	0	1	0	1
309		15	max	.238	6	.021	10	0	1	-.002	1	.029	5	0	1	0	1
310			min	.028	10	0	3	0	1	-.029	5	.002	1	0	1	0	1
311		16	max	.238	6	.024	10	0	1	.079	10	.007	3	0	1	0	1
312			min	.028	10	0	3	0	1	-.007	3	-.079	10	0	1	0	1
313		17	max	.238	6	.027	10	0	1	.2	10	.007	3	0	1	0	1
314			min	.028	10	0	3	0	1	-.007	3	-.2	10	0	1	0	1
315		18	max	.238	6	.03	10	0	1	.337	10	.008	3	0	1	0	1
316			min	.028	10	0	3	0	1	-.008	3	-.337	10	0	1	0	1
317		19	max	.238	6	.033	10	0	1	.487	10	.008	3	0	1	0	1
318			min	.028	10	0	3	0	1	-.008	3	-.487	10	0	1	0	1
319		20	max	.238	6	.036	10	0	1	.652	10	.008	3	0	1	0	1
320			min	.028	10	0	3	0	1	-.008	3	-.652	10	0	1	0	1
321	M9	1	max	.215	12	0	1	0	1	0	1	0	1	0	1	0	1
322			min	.064	10	-.023	5	0	1	0	1	0	1	0	1	0	1
323		2	max	.215	12	0	1	0	1	0	1	.102	5	0	1	0	1
324			min	.064	10	-.02	5	0	1	-.102	5	0	1	0	1	0	1
325		3	max	.215	12	0	1	0	1	0	1	.189	5	0	1	0	1
326			min	.064	10	-.017	5	0	1	-.189	5	0	1	0	1	0	1
327		4	max	.215	12	0	1	0	1	0	1	.261	5	0	1	0	1
328			min	.064	10	-.014	5	0	1	-.261	5	0	1	0	1	0	1
329		5	max	.215	12	0	1	0	1	0	1	.319	5	0	1	0	1
330			min	.063	10	-.011	5	0	1	-.319	5	0	1	0	1	0	1
331		6	max	.214	12	0	1	0	1	0	1	.363	5	0	1	0	1
332			min	.063	10	-.008	5	0	1	-.363	5	0	1	0	1	0	1
333		7	max	.214	12	0	1	0	1	0	1	.392	5	0	1	0	1
334			min	.063	10	-.005	5	0	1	-.392	5	0	1	0	1	0	1
335		8	max	.214	12	0	1	0	1	0	1	.406	5	0	1	0	1
336			min	.063	10	-.002	5	0	1	-.406	5	0	1	0	1	0	1
337		9	max	.214	12	.002	5	0	1	0	1	.406	5	0	1	0	1
338			min	.063	10	0	1	0	1	-.406	5	0	1	0	1	0	1
339		10	max	.214	12	.005	5	0	1	0	1	.391	5	0	1	0	1
340			min	.063	10	0	1	0	1	-.391	5	0	1	0	1	0	1
341		11	max	.214	12	.008	5	0	1	0	1	.362	5	0	1	0	1

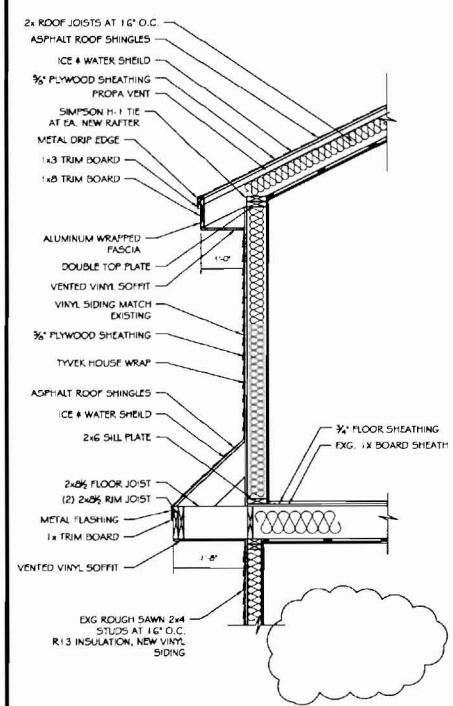
Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	lc	y Shear[...	lc	z Shear[...	lc	y-Top[ksi]	lc	y-Bot[ksi]	lc	z-Top[ksi]	lc	z-Bot[ksi]	lc
342			min	.063	10	0	1	0	1	-.362	5	0	1	0	1	0	1
343		12	max	.214	12	.011	5	0	1	0	1	.318	5	0	1	0	1
344			min	.063	10	0	1	0	1	-.318	5	0	1	0	1	0	1
345		13	max	.214	12	.014	5	0	1	0	1	.26	5	0	1	0	1
346			min	.063	10	0	1	0	1	-.26	5	0	1	0	1	0	1
347		14	max	.214	12	.017	5	0	1	0	1	.187	5	0	1	0	1
348			min	.063	10	0	1	0	1	-.187	5	0	1	0	1	0	1
349		15	max	.214	12	.02	5	0	1	0	1	.1	5	0	1	0	1
350			min	.063	10	0	1	0	1	-.1	5	0	1	0	1	0	1
351		16	max	.213	12	.023	5	0	1	.002	5	0	1	0	1	0	1
352			min	.063	10	0	1	0	1	0	1	-.002	5	0	1	0	1
353		17	max	.213	12	.026	5	0	1	.118	5	0	1	0	1	0	1
354			min	.063	10	0	1	0	1	0	1	-.118	5	0	1	0	1
355		18	max	.213	12	.029	5	0	1	.249	5	0	1	0	1	0	1
356			min	.063	10	0	1	0	1	0	1	-.249	5	0	1	0	1
357		19	max	.213	12	.032	5	0	1	.395	5	0	1	0	1	0	1
358			min	.063	10	0	1	0	1	0	1	-.395	5	0	1	0	1
359		20	max	.213	12	.035	5	0	1	.555	5	0	1	0	1	0	1
360			min	.063	10	0	1	0	1	0	1	-.555	5	0	1	0	1
361	M10	1	max	.008	5	.041	9	0	1	0	1	0	1	0	1	0	1
362			min	0	1	0	2	0	1	0	1	0	1	0	1	0	1
363		2	max	.008	5	.03	9	0	1	.3	9	0	2	0	1	0	1
364			min	0	1	0	2	0	1	0	2	-.3	9	0	1	0	1
365		3	max	.008	5	.018	9	0	1	.502	9	0	2	0	1	0	1
366			min	0	1	0	2	0	1	0	2	-.502	9	0	1	0	1
367		4	max	.008	5	.006	9	0	1	.606	9	0	2	0	1	0	1
368			min	0	1	0	2	0	1	0	2	-.606	9	0	1	0	1
369		5	max	.008	5	0	2	0	1	.612	9	0	2	0	1	0	1
370			min	0	1	-.005	9	0	1	0	2	-.612	9	0	1	0	1
371		6	max	.008	5	0	2	0	1	.52	9	0	2	0	1	0	1
372			min	0	1	-.017	9	0	1	0	2	-.52	9	0	1	0	1
373		7	max	.008	5	0	2	0	1	.33	9	0	2	0	1	0	1
374			min	0	1	-.028	9	0	1	0	2	-.33	9	0	1	0	1
375		8	max	.008	5	0	2	0	1	.043	9	0	2	0	1	0	1
376			min	0	1	-.04	9	0	1	0	2	-.043	9	0	1	0	1
377		9	max	.008	5	0	2	0	1	0	2	.343	9	0	1	0	1
378			min	0	1	-.051	9	0	1	-.343	9	0	2	0	1	0	1
379		10	max	.008	5	0	2	0	1	0	2	.826	9	0	1	0	1
380			min	0	1	-.063	9	0	1	-.826	9	0	2	0	1	0	1
381		11	max	.008	5	.063	9	0	1	0	2	.826	9	0	1	0	1
382			min	0	1	0	2	0	1	-.826	9	0	2	0	1	0	1
383		12	max	.008	5	.051	9	0	1	0	2	.343	9	0	1	0	1
384			min	0	1	0	2	0	1	-.343	9	0	2	0	1	0	1
385		13	max	.008	5	.04	9	0	1	.043	9	0	2	0	1	0	1
386			min	0	1	0	2	0	1	0	2	-.043	9	0	1	0	1
387		14	max	.008	5	.028	9	0	1	.33	9	0	2	0	1	0	1
388			min	0	1	0	2	0	1	0	2	-.33	9	0	1	0	1
389		15	max	.008	5	.017	9	0	1	.52	9	0	2	0	1	0	1
390			min	0	1	0	2	0	1	0	2	-.52	9	0	1	0	1
391		16	max	.008	5	.005	9	0	1	.612	9	0	2	0	1	0	1
392			min	0	1	0	2	0	1	0	2	-.612	9	0	1	0	1
393		17	max	.008	5	0	2	0	1	.606	9	0	2	0	1	0	1
394			min	0	1	-.006	9	0	1	0	2	-.606	9	0	1	0	1
395		18	max	.008	5	0	2	0	1	.502	9	0	2	0	1	0	1
396			min	0	1	-.018	9	0	1	0	2	-.502	9	0	1	0	1
397		19	max	.008	5	0	2	0	1	.3	9	0	2	0	1	0	1
398			min	0	1	-.03	9	0	1	0	2	-.3	9	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	lc	y Shear[...	lc	z Shear[...	lc	y-Top[ksi]	lc	y-Bot[ksi]	lc	z-Top[ksi]	lc	z-Bot[ksi]	lc
399		20	max	.008	5	0	2	0	1	0	1	0	1	0	1	0	1
400			min	0	1	-.041	9	0	1	0	1	0	1	0	1	0	1
401	M11	1	max	.137	4	0	1	0	1	.403	5	0	1	0	1	0	1
402			min	.031	1	-.029	5	0	1	0	1	-.403	5	0	1	0	1
403		2	max	.137	4	0	1	0	1	.295	5	0	1	0	1	0	1
404			min	.031	1	-.027	5	0	1	0	1	-.295	5	0	1	0	1
405		3	max	.137	4	0	1	0	1	.197	5	0	1	0	1	0	1
406			min	.031	1	-.024	5	0	1	0	1	-.197	5	0	1	0	1
407		4	max	.137	4	0	1	0	1	.109	5	0	1	0	1	0	1
408			min	.031	1	-.022	5	0	1	0	1	-.109	5	0	1	0	1
409		5	max	.137	4	0	1	0	1	.03	5	0	1	0	1	0	1
410			min	.031	1	-.019	5	0	1	0	1	-.03	5	0	1	0	1
411		6	max	.137	4	0	1	0	1	0	1	.039	5	0	1	0	1
412			min	.031	1	-.017	5	0	1	-.039	5	0	1	0	1	0	1
413		7	max	.136	4	0	1	0	1	0	1	.099	5	0	1	0	1
414			min	.031	1	-.014	5	0	1	-.099	5	0	1	0	1	0	1
415		8	max	.136	4	0	1	0	1	0	1	.149	5	0	1	0	1
416			min	.031	1	-.012	5	0	1	-.149	5	0	1	0	1	0	1
417		9	max	.136	4	0	1	0	1	0	1	.189	5	0	1	0	1
418			min	.031	1	-.009	5	0	1	-.189	5	0	1	0	1	0	1
419		10	max	.136	4	0	1	0	1	0	1	.22	5	0	1	0	1
420			min	.031	1	-.007	5	0	1	-.22	5	0	1	0	1	0	1
421		11	max	.136	4	0	1	0	1	0	1	.241	5	0	1	0	1
422			min	.031	1	-.004	5	0	1	-.241	5	0	1	0	1	0	1
423		12	max	.136	4	0	1	0	1	0	1	.253	5	0	1	0	1
424			min	.031	1	-.002	5	0	1	-.253	5	0	1	0	1	0	1
425		13	max	.136	4	0	5	0	1	0	1	.255	5	0	1	0	1
426			min	.03	1	0	1	0	1	-.255	5	0	1	0	1	0	1
427		14	max	.136	4	.003	5	0	1	0	1	.247	5	0	1	0	1
428			min	.03	1	0	1	0	1	-.247	5	0	1	0	1	0	1
429		15	max	.136	4	.006	5	0	1	0	1	.23	5	0	1	0	1
430			min	.03	1	0	1	0	1	-.23	5	0	1	0	1	0	1
431		16	max	.136	4	.008	5	0	1	0	1	.203	5	0	1	0	1
432			min	.03	1	0	1	0	1	-.203	5	0	1	0	1	0	1
433		17	max	.136	4	.011	5	0	1	0	1	.167	5	0	1	0	1
434			min	.03	1	0	1	0	1	-.167	5	0	1	0	1	0	1
435		18	max	.136	4	.013	5	0	1	0	1	.121	5	0	1	0	1
436			min	.03	1	0	1	0	1	-.121	5	0	1	0	1	0	1
437		19	max	.135	4	.016	5	0	1	0	1	.065	5	0	1	0	1
438			min	.03	1	0	1	0	1	-.065	5	0	1	0	1	0	1
439		20	max	.135	4	.018	5	0	1	0	1	0	1	0	1	0	1
440			min	.03	1	0	1	0	1	0	1	0	1	0	1	0	1

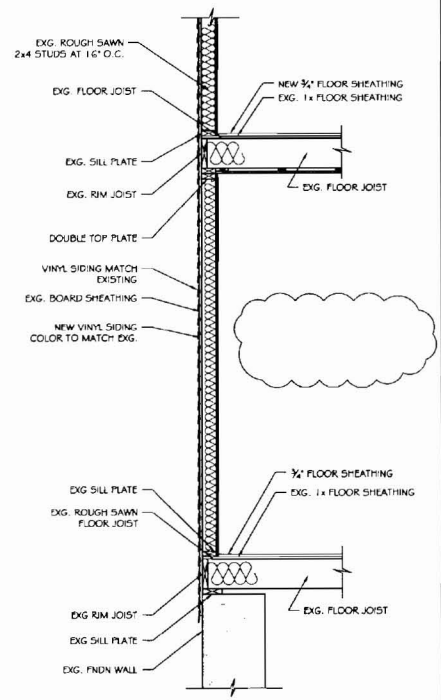
C4



A3 — WALL & ROOF DETAIL AT NEW SHED DORMER

SCALE: ¾" = 1'-0"

C3

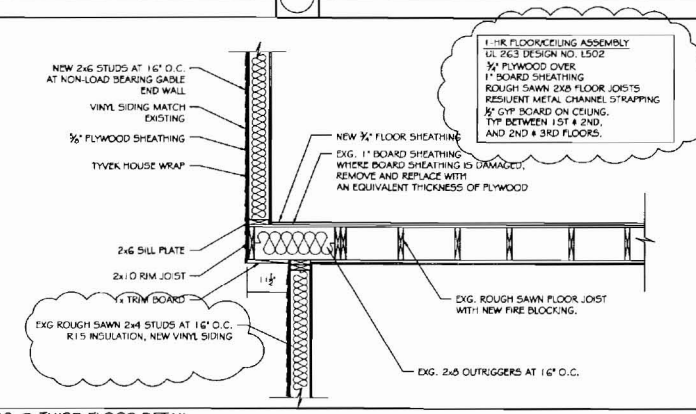


A2 (A401) — WALL DETAIL

SCALE: ¾" = 1'-0"

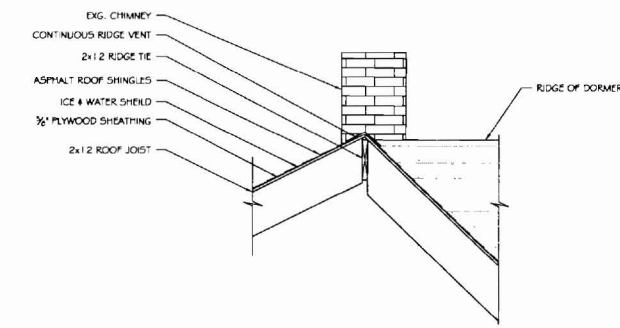
C2

C1



A1 (A401) — FLOOR OVERHANG @ THIRD FLOOR DETAIL

SCALE: ¾" = 1'-0"



A1 (A401) — RIDGE DETAIL

SCALE: ¾" = 1'-0"

ASSOCIATED DESIGN PARTNERS INC.
80 Leighton Road
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Fax: (207) 878-1758
E-Mail: adp@adpengineering.com

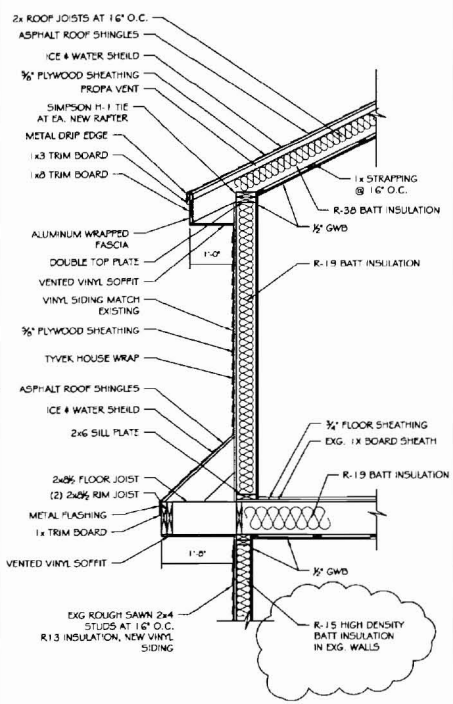
PROJECT: BOLES RESIDENCE
PORTLAND, MAINE
FOR: ELIAS BOLES

SHEET TITLE: BUILDING DETAILS
ISSUED FOR PERMITTING

No.	BY	DESCRIPTION	DATE
1	ASW	REV. PER CITY OF PORTLAND	1/17/07
2			
3			
4			

DATE : 12/15/06
SCALE : AS NOTED
DESIGN BY: ASW
DRAWN BY: RSC
FILE #: D6095-A602.DWG
PROJECT NUMBER: 06095
SHEET NO: A602

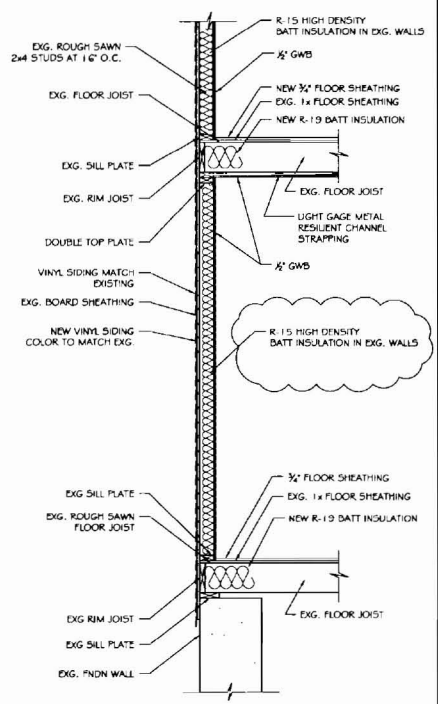
C4



A3 — WALL & ROOF DETAIL AT NEW SHED DORMER

SCALE: ¾"=1'-0"

C3

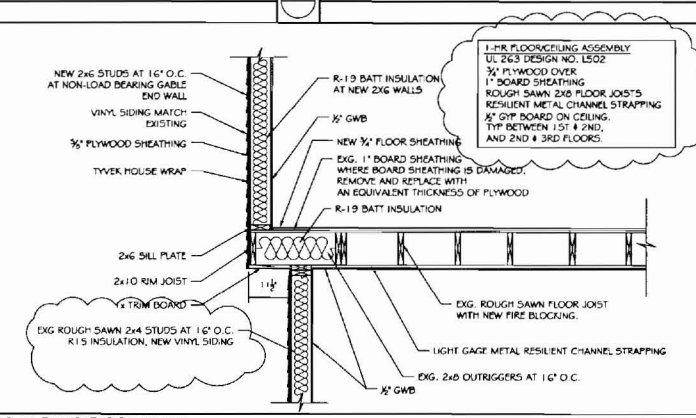


A2 / A401 — WALL DETAIL

SCALE: ¾"=1'-0"

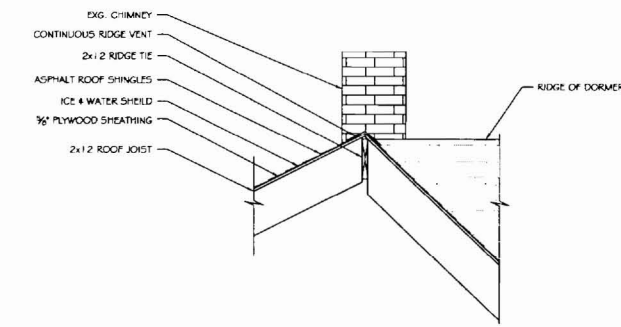
C2

C1



B1 / A401 — FLOOR OVERHANG @ THIRD FLOOR DETAIL

SCALE: ¾"=1'-0"



A1 / A401 — RIDGE DETAIL

SCALE: ¾"=1'-0"

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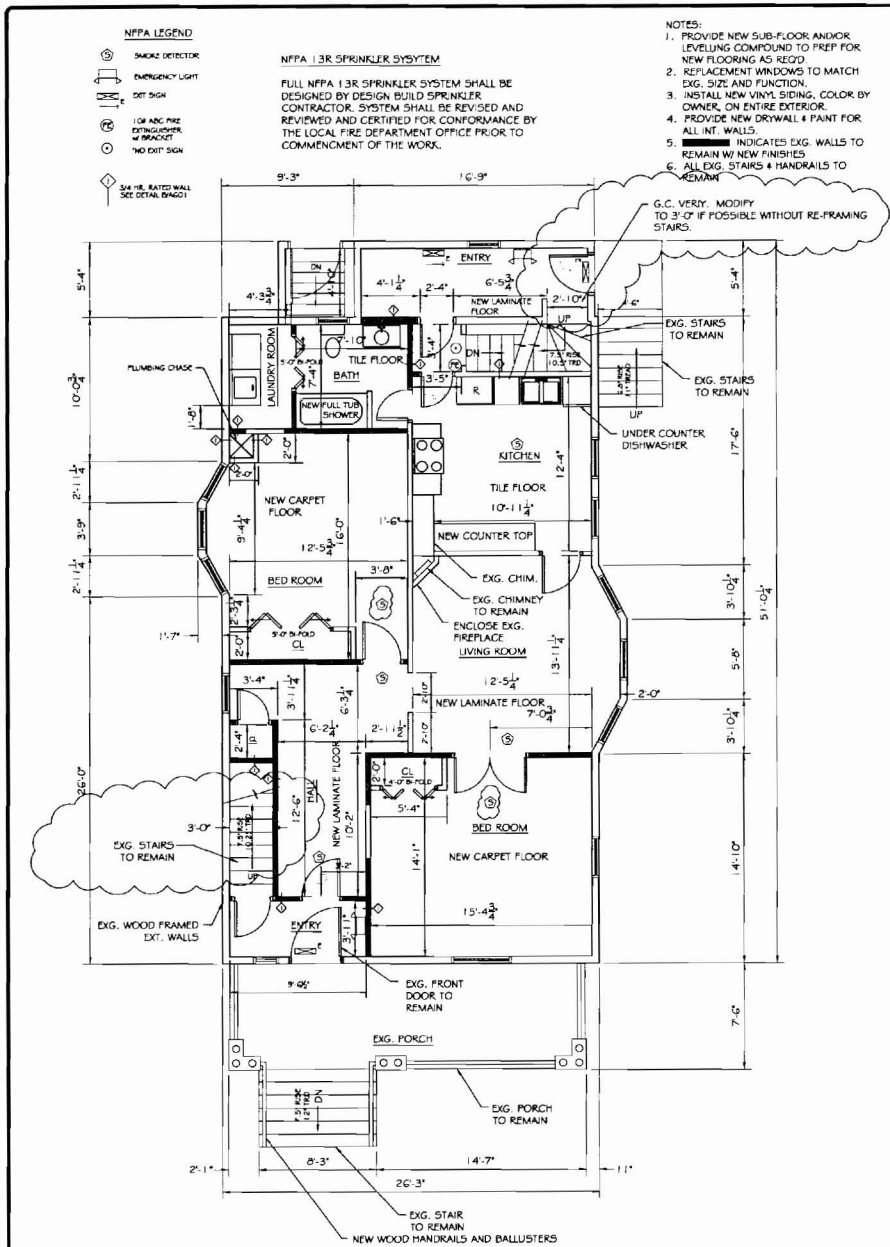
E-Mail: adp@adpengineering.com

PROJECT: BOLES RESIDENCE
PORTLAND, MAINE
FOR: ELIAS BOLES

SHEET TITLE: BUILDING DETAILS
ISSUED FOR PERMITTING

REVISIONS			
No.	BY	DESCRIPTION	DATE
1	ASW	REV. PER CITY OF PORTLAND	1/17/07
2			
3			
4			

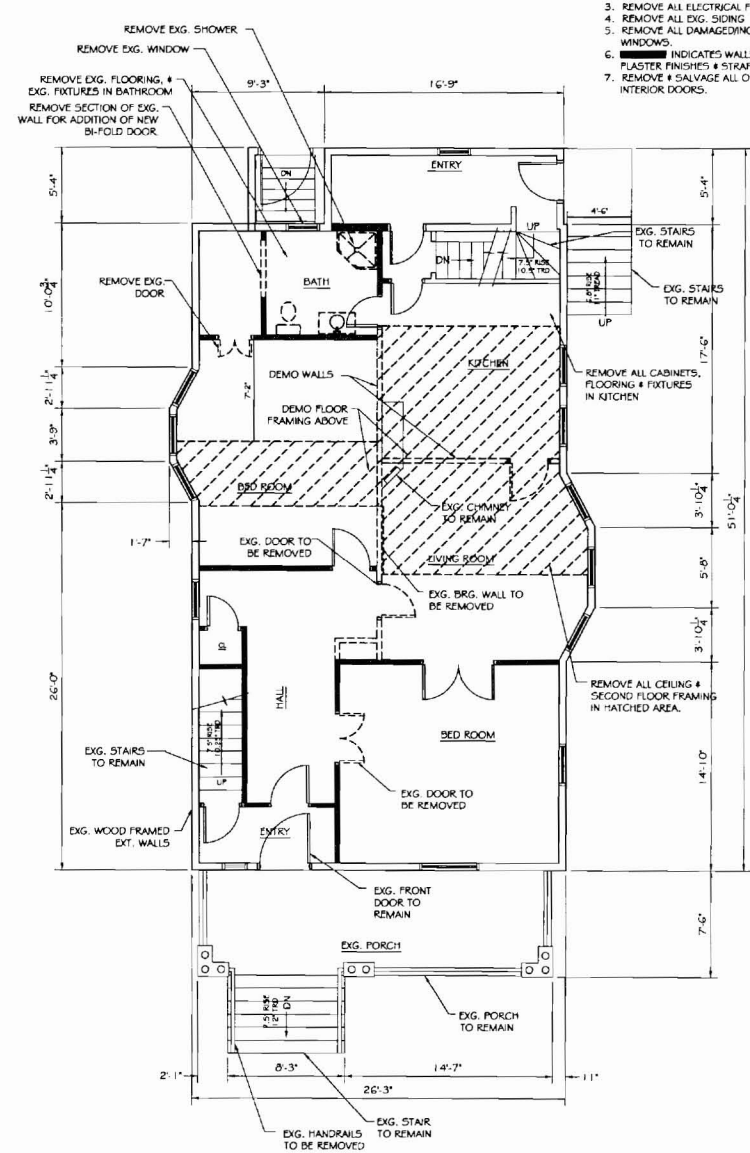
DATE : 12/15/06
SCALE : AS NOTED
DESIGN BY: ASW
DRAWN BY: RSC
FILE #: 06095-A602.DWG
PROJECT NUMBER: 06095
SHEET NO: A602



A2 PROPOSED FIRST FLOOR PLAN

SCALE: ¼" = 1'-0"

NOTES:
1. REMOVE ALL HARDWOOD FLOORING THROUGHOUT.
2. REMOVE ALL ELECTRICAL WIRING & OUTLETS & SWITCHES.
3. REMOVE ALL ELECTRICAL FIXTURES
4. REMOVE ALL EXG. SIDING
5. REMOVE ALL DAMAGED/INOPERABLE WINDOWS.
6. INDICATES WALLS TO HAVE ALL PLASTER FINISHES & STRAPPING REMOVED.
7. REMOVE & SALVAGE ALL OPERABLE INTERIOR DOORS.



A1 EXISTING FIRST FLOOR PLAN

SCALE: ¼" = 1'-0"

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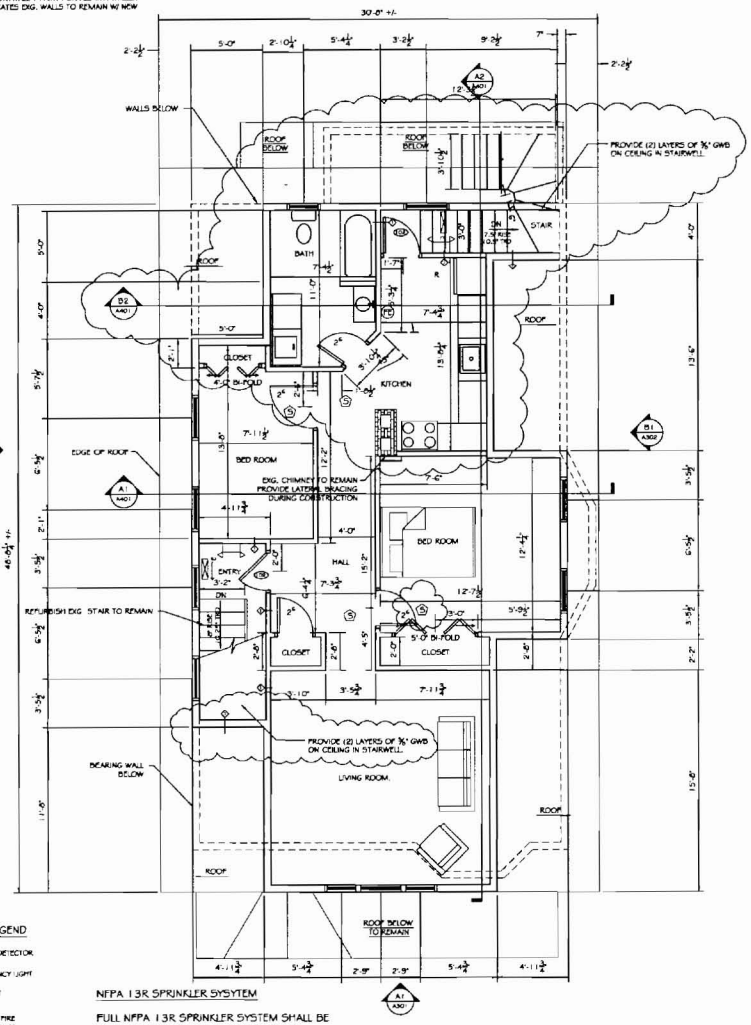
PROJECT: BOLES RESIDENCE
PORTLAND, MAINE
FOR: ELIAS BOLES

SHEET TITLE: EXISTING + PROPOSED FIRST FLOOR PLAN
ISSUED FOR PERMITTING

REVISIONS			
No.	BY	DESCRIPTION	DATE
1	ASW	REV. PER CITY OF PORTLAND	1/17/07
2			
3			
4			

DATE : 12/15/06
SCALE : AS NOTED
DESIGN BY: ASW
DRAWN BY: RSC
FILE #: 06095-A101.DWG
PROJECT NUMBER: 06095
SHEET NO: A101

NOTES:
1. PROVIDE NEW SUB-FLOOR ANCHOR LEVELLING COMPOUND TO PREP FOR NEW FLOORING AS REQ'D.
2. REPLACEMENT WINDOWS TO MATCH EXG. SIZE AND FUNCTION.
3. INSTALL NEW VINYL SIDING, COLOR BY OWNER, ON ENTIRE EXTERIOR.
4. PROVIDE NEW DRYWALL & PAINT FOR ALL INT. WALLS.
5. ▬ INDICATES EXG. WALLS TO REMAIN W/ NEW FINISHES



NFPA LEGEND

- (S) SMOKE DETECTOR
- EMERGENCY LIGHT
- EXIT SIGN
- (FE) 10# ABC FIRE EXTINGUISHER w/ BRACKET
- "NO EXIT" SIGN
- 1 ½ HR. RATED WALL SEE DETAIL 9/A201

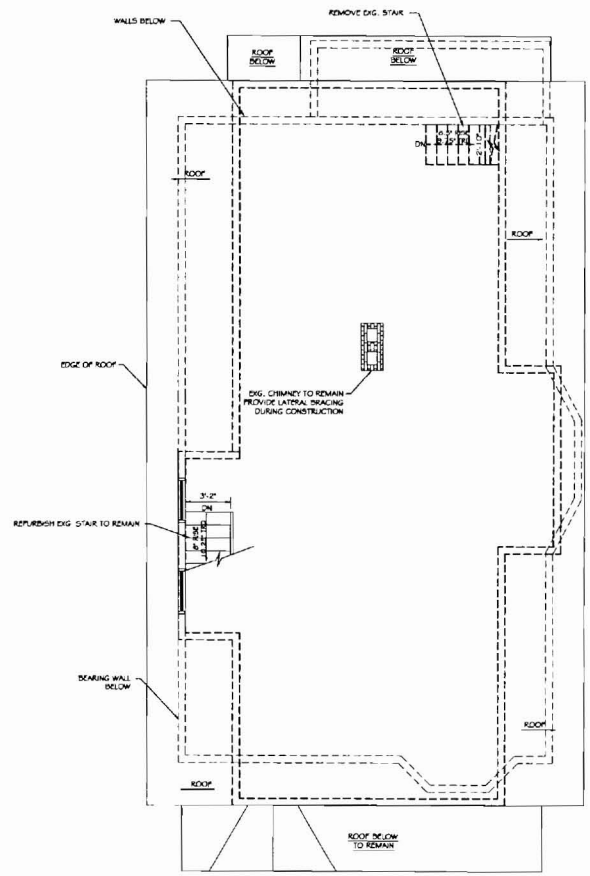
NFPA 13R SPRINKLER SYSYTEM

FULL NFPA 13R SPRINKLER SYSTEM SHALL BE DESIGNED BY DESIGN BUILD SPRINKLER CONTRACTOR. SYSTEM SHALL BE REVISED AND REVIEWED AND CERTIFIED FOR CONFORMANCE BY THE LOCAL FIRE DEPARTMENT OFFICE PRIOR TO COMMENCEMENT OF THE WORK.

(KD) - INDICATES DOOR KEY

B1 PROPOSED THIRD FLOOR PLAN
SCALE: ¼" = 1'-0"

NOTES:
1. REMOVE ALL HARDWOOD FLOORING THROUGHOUT.
2. REMOVE ALL ELECTRICAL WIRING & OUTLETS & SWITCHES.
3. REMOVE ALL ELECTRICAL FIXTURES
4. REMOVE ALL EXG. SIDING
5. REMOVE ALL DAMAGED/INOPERABLE WINDOWS.
6. ▬ INDICATES WALLS TO HAVE ALL PLASTER FINISHES & STRAPPING REMOVED
7. REMOVE & SALVAGE ALL OPERABLE INTERIOR DOORS.
8. REMOVE ALL INTERIOR & EXTERIOR WALLS, ROOF FRAMING, & FLOORING AT 3rd FLOOR LEVEL.



A1 EXISTING THIRD FLOOR PLAN W/ DEMO
SCALE: ¼" = 1'-0"

ASSOCIATED DESIGN PARTNERS INC.
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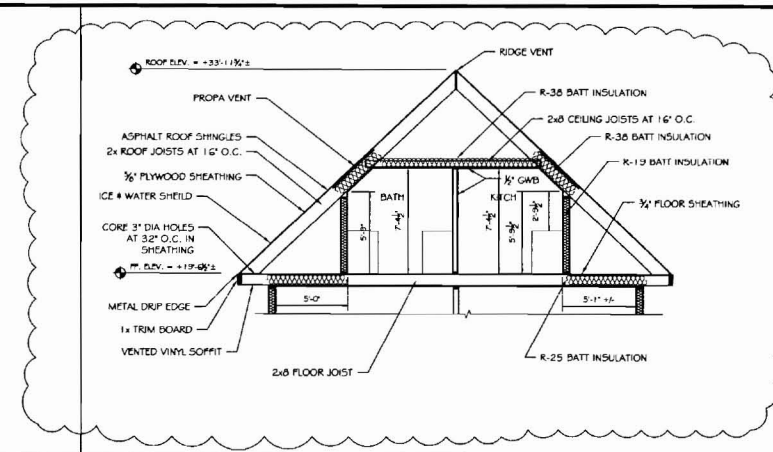
E-Mail: adp@adpengineering.com

PROJECT: BOLES RESIDENCE
PORTLAND, MAINE
FOR: ELIAS BOLES

SHEET TITLE: EXISTING + PROPOSED THIRD FLOOR PLAN
ISSUED FOR PERMITTING

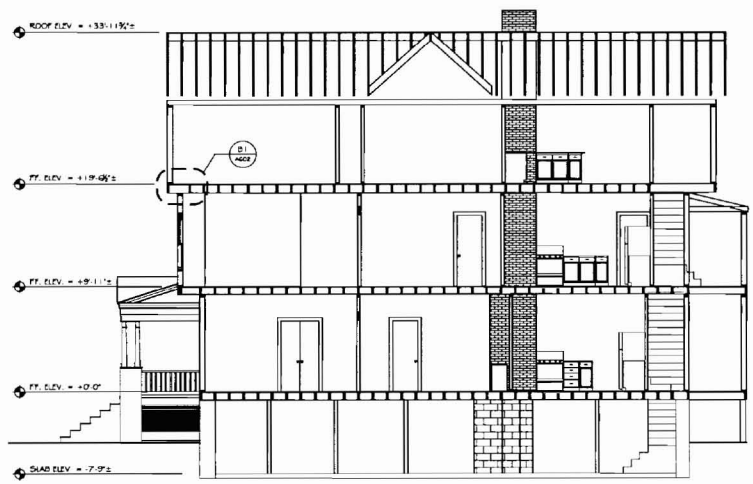
REVISIONS			
No.	BY	DESCRIPTION	DATE
1	ASW	REV. PER CITY OF PORTLAND	1/17/07
2			
3			
4			

DATE : 12/15/06
SCALE : AS NOTED
DESIGN BY: ASW
DRAWN BY: RSC
FILE #: 06095-A104.DWG
PROJECT NUMBER: 06095
SHEET NO: A103



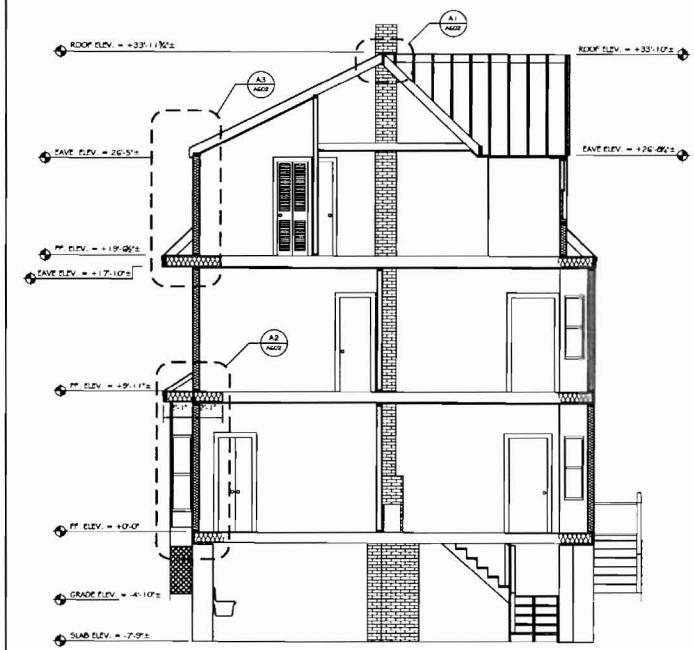
A2 3RD FLOOR BUILDING SECTION

SCALE: ½" = 1'-0"



A2 BUILDING SECTION

SCALE: 3/32" = 1'-0"



A1 BUILDING SECTION

SCALE: ⅛" = 1'-0"

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PROJECT: BOLES RESIDENCE
PORTLAND, MAINE
FOR: ELIAS BOLES

SHEET TITLE: BUILDING SECTION
ISSUED FOR PERMITTING

REVISIONS			
No.	BY	DESCRIPTION	DATE
1	ASW	REV. PER CITY OF PORTLAND	1/17/07
2			
3			
4			

DATE : 12/15/06
SCALE : AS NOTED
DESIGN BY: ASW
DRAWN BY: RSC
FILE #: 06095-A401.DWG
PROJECT NUMBER: 06095
SHEET NO: A401

GENERAL STRUCTURAL NOTES

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF ALL APPLICABLE STATE AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO:
   - -INTERNATIONAL BUILDING CODE - 2003 ED
   - -ANSI-ASCE 7-02
   - -ACI 318-02 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
   - -ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"
   - -AISC STEEL CONSTRUCTION MANUAL
   - -SISI COLD FORMED STEEL DESIGN MANUAL
   - -ANSI-AF&PA NDS-2001
2. STRUCTURAL LOADS:

BALANCED SNOW LOAD	= NA
FLOOR DEAD LOAD	= 15 PSF
FLOOR LIVE LOAD	= 40 PSF RESIDENTIAL APARTMENT

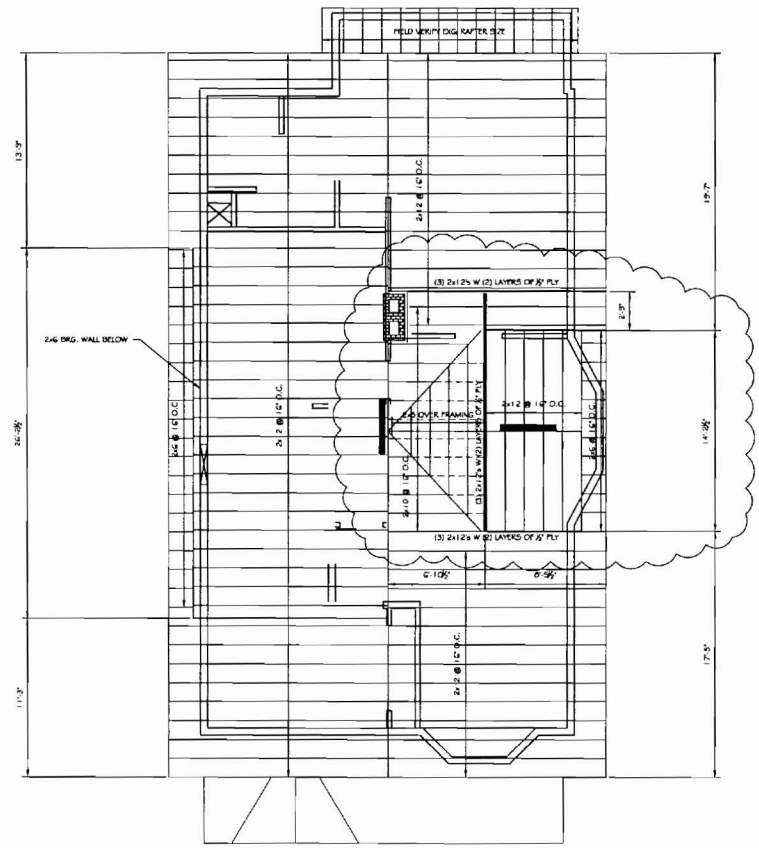
3. N.A.
4. CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ENGINEER ANY CONDITIONS DIFFERENT FROM THOSE SHOWN ON THE DRAWINGS AND ALSO ANY CONDITIONS THAT PREVENT THE CONTRACTOR'S COMPLETION OF THE WORK AS SHOWN ON THE CONSTRUCTION DRAWINGS.
5. ALL WORK SHALL BE PERFORMED BY PERSONS QUALIFIED IN THEIR TRADE AND LICENSED TO PRACTICE SUCH TRADE IN THE STATE IN WHICH THE PROJECT IS LOCATED.
6. THESE DRAWINGS SHALL BE USED IN CONJUNCTION WITH ANY ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS, IN ADDITION TO SPECIFICATIONS AND ANY SHOP DRAWINGS PROVIDED BY SUBCONTRACTORS AND SUPPLIERS.
7. ALL DIMENSIONS, ELEVATIONS, AND CONDITIONS SHALL BE VERIFIED IN THE FIELD BY GENERAL CONTRACTOR (G.C.) AND ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
8. UNLESS OTHERWISE NOTED, DETAILS, SECTIONS, AND NOTES SHOWN ON ANY DRAWING SHALL BE CONSIDERED TYPICAL FOR ALL SIMILAR DETAILS.
9. THESE DRAWINGS DO NOT SHOW SIZE, LOCATION OR TYPE OF OPENING IN THE FOUNDATION SYSTEM FOR ELECTRICAL, PLUMBING OR MECHANICAL EQUIPMENT. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING THESE ITEMS.

WOOD FRAMING NOTES

1. STRUCTURAL LUMBER:
   DIMENSION LUMBER: No. 1/No. 2 SPRUCE-PINE-FIR OR BETTER
   POSTS AND TIMBERS: No. 1 EASTERN HEMLOCK
   LAMINATED VENEER LUMBER (LVL): EQUIVALENT TO 1.9E S.P. MICRO-LAM BY TRUS JOIST MacMILLAN.
   PARALELL STRAND LUMBER (PSL): EQUIVALENT TO 2.0E PARALAM PSL BY TRUS JOIST MacMILLAN, OR EQUAL
2. DESIGN CODES:
   A. NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION BY THE AMERICAN FOREST AND PAPER ASSOCIATION
   B. DESIGN SPECIFICATION FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES (TPI-85).
3. FASTENERS: COMPLY WITH RECOMMENDED FASTENING SCHEDULE OF THE INTERNATIONAL BUILDING CODE/2003, UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
4. NAILING REQUIREMENTS FOR PLYWOOD FLOOR DECKS, ROOF DECK, AND SHEATHING. PROVIDE ROSIN COATED 8D RING SHANK NAILS FOR FLOORS, AS FOLLOWS, UNLESS SHOWN OTHERWISE:

	PANEL EDGES	INT. SUPPORT
ROOFS / WALLS:	6" O.C.	12" O.C.

5. SPIKE TOGETHER AND CONTINUOUS GLUE ALL FRAMING MEMBERS WHICH ARE BUILT-UP USING 2 ROWS OF 16d NAILS AT 10" O.C. STAGGERED.
6. PROVIDE GALVANIZED METAL JOIST HANGERS AT FLUSH FRAMED CONNECTIONS. IF SIZES ARE NOT SHOWN ON PLANS, PROVIDE HANGERS EQUAL TO SIMPSON U210 OR LU210.
7. PROVIDE GALVANIZED METAL RAFTER TIES EQUAL TO SIMPSON H10 BETWEEN RAFTERS OR ROOF TRUSSES AND SUPPORTING WALLS OR MEMBERS, UNLESS SHOWN OTHERWISE.
8. PROVIDE PRESSURE TREATED LUMBER FOR ALL LUMBER IN CONTACT WITH MASONRY OR CONCRETE.
9. NAIL MULTIPLE LVL's TOGETHER USING 2 ROWS OF 16d NAILS 12" O.C. STAGGERED AS RECOMMENDED BY THE MANUFACTURER.
10. ROOF SHEATHING: 7/16" APA STRUCTURAL 1 RATED SHEATHING 40/20 SPAN RATING.
11. WALL SHEATHING: 7/16" APA RATED SHEATHING, 24/16 SPAN RATING



A2 NOTES

A1 PROPOSED ROOF FRAMING PLAN
SCALE: ¼" = 1'-0"

ASSOCIATED DESIGN PARTNERS INC.
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Falmouth, Maine 04105
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E-Mail: adp@adpengineering.com

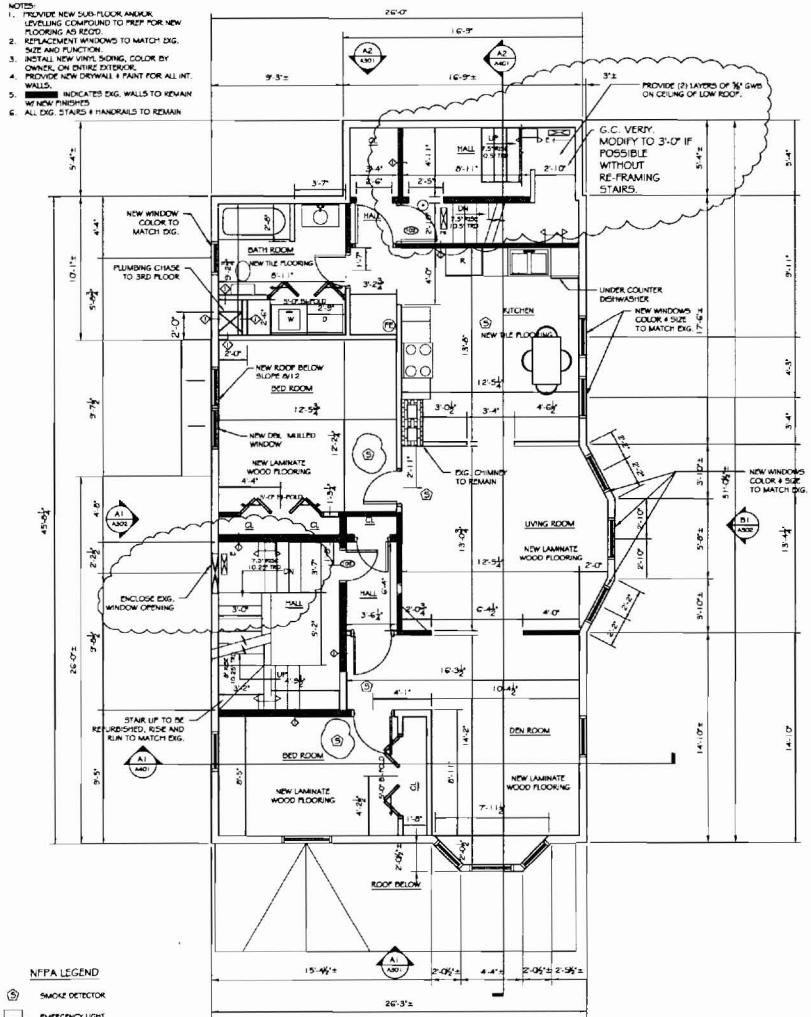
PROJECT: BOLES RESIDENCE
PORTLAND, MAINE
FOR: ELIAS BOLES

SHEET TITLE: PROPOSED ROOF FRAMING PLAN
ISSUED FOR PERMITTING

No.	BY	DESCRIPTION	DATE
1	ASW	REV. PER CITY OF PORTLAND	1/17/07
2			
3			
4			

DATE : 12/15/06
SCALE : AS NOTED
DESIGN BY: ASW
DRAWN BY: RSC
FILE #: 06095-S204.DWG
PROJECT NUMBER: 06095
SHEET NO: S204

NOTES:
1. PROVIDE NEW SUB-FLOOR AND/OR LEVELING COMPOUND TO PREP FOR NEW FLOORING AS REQ'D.
2. REPLACEMENT WINDOWS TO MATCH EXG. SIZE AND FUNCTION.
3. INSTALL NEW VINYL SIDING, COLOR BY OWNER, ON ENTIRE EXTERIOR.
4. PROVIDE NEW DRYWALL & PAINT FOR ALL INT. WALLS.
5. ▬ INDICATES EXG. WALLS TO REMAIN W/ NEW FINISHES.
6. ALL EXG. STAIRS & HANDRAILS TO REMAIN



NFPA LEGEND

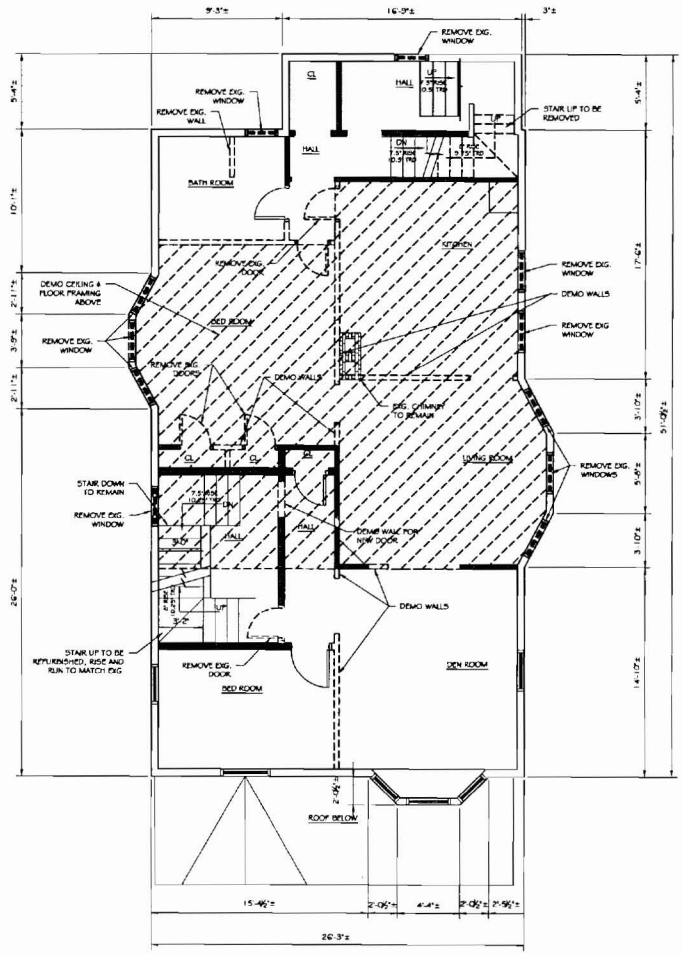
- (S) SMOKE DETECTOR
- EMERGENCY LIGHT
- EXIT SIGN
- (FE) 10# ABC FIRE EXTINGUISHER W/ BRACKET
- NO EXIT SIGN
- 1 1/4 HR. RATED WALL SEE DETAIL 3/A501

NFPA 13R SPRINKLER SYSYTEM

FULL NFPA 13R SPRINKLER SYSTEM SHALL BE DESIGNED BY DESIGN BUILD SPRINKLER CONTRACTOR. SYSTEM SHALL BE REVISED AND REVIEWED AND CERTIFIED FOR CONFORMANCE BY THE LOCAL FIRE DEPARTMENT OFFICE PRIOR TO COMMENCMENT OF THE WORK.

(XD) - INDICATES DOOR KEY

B1 PROPOSED SECOND FLOOR PLAN
SCALE: ¼" = 1'-0"



NOTES:
1. REMOVE ALL HARDWOOD FLOORING THROUGHOUT
2. REMOVE ALL ELECTRICAL WIRING & OUTLETS & SWITCHES.
3. REMOVE ALL ELECTRICAL FIXTURES
4. REMOVE ALL EXG. SIDING
5. REMOVE ALL DAMAGED/INOPERABLE WINDOWS
6. ▬ INDICATES WALLS TO HAVE ALL PLASTER FINISHES & STRAPPING REMOVED
7. REMOVE & SALVAGE ALL OPERABLE INTERIOR DOORS.

A1 EXISTING SECOND FLOOR PLAN W/ DEMO
SCALE: ¼" = 1'-0"

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PROJECT: BOLES RESIDENCE
PORTLAND, MAINE
FOR: ELIAS BOLES

SHEET TITLE: EXISTING + PROPOSED SECOND FLOOR PLAN
ISSUED FOR PERMITTING

No.	BY	REVISIONS DESCRIPTION	DATE
1	ASW	REV. PER CITY OF PORTLAND	1/17/07
2			
3			
4			

DATE : 12/15/06
SCALE : AS NOTED
DESIGN BY: ASW
DRAWN BY: RSC
FILE #: 06095-A102.DWG
PROJECT NUMBER: 06095
SHEET NO: A102