CITY OF SACRAMENTO

1231 I Street, Sacramento, CA 95814

Permit No: 0109183
Insp Area: 4
Thos Bros: 276H1

Site Address: 4230 WINDSONG ST SAC
Parcel No: 225-1240-006

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

CONTRACTOR
IMPERIAL POOLS
3912 KENWOOD WAY
ROSEVILLE 95747

OWNER
HAYES
4230 WINDSONG ST
SAC CA 95621

ARCHITECT

Nature of Work: VINYL LINER POOL - NO HEATER

CONSTRUCTION LENDING AGENCY : I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C).

Lender's Name_____ Lender'sAddress_____

LICENSED CONTRACTORS DECLARATION: I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code and my license is in full force and effect.

License Class C53 License Number 455629 Date 8/21/01 Contractor Signature _____

OWNER-BUILDER DECLARATION: I hereby affirm under penalty of perjury that I am exempt from the contractors License Law for the following reason (Sec. 7031.5, Business and Professions Code; any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 8 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500.00);

_____ I, as a owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business and Professional Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his/her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he/she did not build or improve for the purpose of sale.)

_____ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law).

_____ I am exempt under Sec._____ B & PC for this reason:_____

Date_____ Owner Signature_____

IN ISSUING THIS BUILDING PERMIT, the applicant represents, and the city relies on the representation of the applicant, that the applicant verified all measurements and locations shown on the application or accompanying drawings and that the improvement to be constructed does not violate any law or private agreement relating to permissible or prohibited locations for such improvements. This building permit does not authorize any illegal location of any improvement or the violation of any private agreement relating to location of improvements.

I certify that I have read this application and state that all information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction and herby authorize representative(s) of this city to enter upon the abovementioned property for inspection purposes.

Date 8/21/01 Applicant/Agent Signature _____

WORKER'S COMPENSATION DECLARATION: I hereby affirm under penalty of perjury one of the following declarations:

_____ I have and will maintain a certificate of consent to self-insure for workers' compensation as provided for by Section 3700 of the Labor Code, for the performance of work for which the permit is issued.

X I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier STATE FUND Policy Number 713000004184 Exp Date

_____ (This section need not be completed if the permit is for $100 or less) I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date 8/21/01 Applicant Signature _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST AND ATTORNEY'S FEE.

THIS PERMIT SHALL EXPIRE BY LIMITATION IF WORK IS NOT COMMENCED WITHIN 180 DAYS.

0109183 R POOL
4230 WINDSONG ST.

CITY OF SACRAMENTO Neighborhoods, Planning and Development Services Division
1231 I Street, Rm. 200, Sacramento, CA 95814

Requirements for Pool Construction

1. Construction in Expansive Soil Areas
   It is likely that expansive soils are present at any site within the City of Sacramento, so reinforcing and gunite should be designed to withstand the increased forces from this type of soil.

2. Minimum Landscape Strip
   A 3' landscape strip is required between the edge of the pool decking and the property line, or else provide a drainage system to prevent pool water from crossing the property lines.

3. Minimum Pool and Equipment Setbacks (measured from edge of pool water and from pool equipment)

< 60' to front property line:	*> 60' to front property line:*
Front - 25'	Front - n.a.
Side - 5'	Side - 3'
Rear - 3'	Rear - 3'
Street side - 12 ½' *	Street side - 5' *

   * Applies at corner lots. Minimum fence setback at the street side of corner lots is 5'.

4. Pool Surcharge Setback
   Pool excavations shall not encroach below a line extending at a slope of one to one downward from the bottom of any building footings or from a property line, unless the pool and excavation are approved in writing by a soils engineer.

5. Pool Equipment Noise Abatement
   Equipment noise levels must be within the maximum levels set per Sacramento City Code Section 8.68.110.

6. Safety Glazing
   Safety glazing is required in any window where the bottom is less than 60 inches above the pool decking and where the window is also within 5' of the edge of pool water.

7. Pool Barriers
   Barriers or other means are required to limit access to the pool from the home and from neighboring properties. All provisions of the attached State of California Health and Safety Code Sections 115920 through 115927 shall apply, and at least one of the following features shall be provided. Items C and D apply only to access from the home.
   A. Provide an access barrier completely enclosing the pool area that complies with the following:
      i) Gates shall open away from the pool, shall be self-closing, and shall have a self-latching device placed at least 60 inches above the ground.
      ii) Barriers shall be a minimum 60 inch in height.
      iii) Maximum vertical clearance from the ground to the bottom of the barrier is two inches.
      iv) Railings shall not allow passage of a sphere four inches or more in diameter.
      v) Barriers shall be free of protrusions, cavities, or other physical characteristics that would serve as handholds or footholds that could enable a child below the age of five years to climb over.
   B. Provide an approved cover for the pool.
   C. Provide exit alarms on all doors providing direct access from the home to the pool.
   D. Provide a self-closing, self-latching device with a release mechanism placed no lower than 54 inches above the floor on all doors providing direct access from the home to the pool.
   E. Provide other means of protection if the degree of protection afforded is equal to or greater than that afforded by any of the devices set forth in items A through D above and if approved by the Building Official.

CITY OF SACRAMENTO Neighborhoods, Planning and Development Services Division
1231 I Street, Rm. 200, Sacramento, CA 95814

STATE HEALTH AND SAFETY CODE SEC. 115920-115927

115920. This act shall be known and may be cited as the Swimming Pool Safety Act.

115921. As used in this article the following terms have the following meanings:
(a) "Swimming Pool" or "Pool" means any structure intended for swimming or recreational bathing that contains water over 18 inches deep. "Swimming Pool" includes in-ground and above-ground structures and includes, but it not limited to, hot tubs, spas, portable spas, and non-portable wading pools.
(b) "Public Swimming Pool" means a swimming pool operated for the use of the members and guests of a private club. Public swimming pool does not include a swimming pool located on the grounds of a private single-family home.
(c) "Enclosure" means a fence, wall, or other barrier that isolates a swimming pool from access to the home.
(d) "Approved Safety Pool Cover" means a manually or power-operated safety pool cover that meets all of the performance standards of the American Society for Testing and Materials (ASTM), in compliance with standard F1346-91.
(e) "Exit Alarms" means devices that make audible, continuous alarm sounds
when any door or window, that permits access from the residence to the pool area that is without any intervening enclosure, is opened or is left ajar. Exit alarms may be battery operated or may be connected to the electrical wiring of the building.

115922. Commencing January 1, 1998, except as provided in Section 115925, whenever a construction permit is issued for construction of a new swimming pool at a private,
single-family home it shall be equipped with at least one of the following safety features:
(a) The pool shall be isolated from access to a home by an enclosure that meets the requirements of Section 115923.
(b) The pool shall be equipped with an approved safety pool cover
(c) The residence shall be equipped with exit alarms on those doors providing direct access to the pool.
(d) All doors providing direct access from the home to the swimming pool shall be equipped with a self-closing, self-latching device with a release mechanism placed no lower than 54 inches above the floor.
(e) Other means of protection, if the degree of protection afforded is equal to or greater than that afforded by any of the devices set forth in subdivision (a) to (d), inclusive, as determined by the building official of the jurisdiction issuing the applicable building permit. Any ordinance governing child access to pools adopted by a political subdivision on or before January 1, 1997 is presumed to afford protection that is equal to or greater than that afforded by any of the devices set forth in subdivisions (a) to (d), inclusive

115923. An enclosure shall have all of the following characteristics:
(a) Any access gates through the enclosure open away from the swimming pool, and are self-closing with a self-latching device placed no lower than 60 inches above the ground.
(b) A minimum height of 60 inches.
(c) A maximum vertical clearance from the ground to the bottom of the enclosure of two inches.
(d) Gaps or voids, if any, do not allow passage of a sphere equal to or greater than four inches in diameter.
(e) An outside surface free of protrusions, cavities, or other physical characteristics that would serve as handholds or footholds that could enable a child below the age of five years to climb over.

115924. Any person entering into an agreement to build a swimming pool shall give the consumer notice of the requirements of this article.

115925. The requirements of this article shall not apply to any of the following:
(a) Public swimming pools.
(b) Hot tubs or spas with locking safety covers that comply with the American Society for Testing Materials-Emergency Performance Specification (ASTM-ES 13-89).
(c) Any pool within the jurisdiction of any political subdivision that adopts an ordinance for swimming pool safety that includes requirements that are at least as stringent as this article.
(d) An apartment complex, or any residential setting other than a single-family home.
115926. This article does not apply to any facility regulated by the State Department of Social Services even if the facility is also used as the private residence of the operator.

115927. Notwithstanding any other provision of law, this article shall not be subject to further modification or interpretation by any regulatory agency of the state, this authority being reserved exclusively to local jurisdictions, as provided for in subdivision (c) of Section 115922 and subdivision (c) of Section 115924.

Electric Load Worksheet for the City of ~~Roseville~~

Address : 4330 Wind Song Date : 7/17/01

Phone : 9167862665 Building - Sq. Ft. : 2010

Gas Furnace (Y/N) :

Rating of:

		Watts*	x %	=	Total (a)
Electric Furnace	NPR (Name Plate Rating)	Gas	x .65	=	
Air Conditioning	NPR		x 1.00	=	5760
Heat Pump	NPR		x 1.00	=	
Heater Rating (Less than 4 rooms)			x .65	=	
Heater Rating (More than 4 rooms)			x 1.00	=	

Enter the largest value (watts) from Total (a) ↓

5760 ↓

Add this value to calculations below ↓

Air conditioning Example : Compressor = 16.0 amps
Fan = 2.0 amps
25% of the largest motor = 4.0 amps
Total = 22.0 amps x 230 Volts = 5,060 Watts

Quanity	Item		Watts*
2010	Sq. Ft. x 3 watts per sq. ft.	=	6030
4	20 Amp appliance circuits @ 1500 watts ea.	=	6000
1	Ranges	NPR =	6200
1	Ovens	NPR =	—
	Cooking units	NPR =	—
	Water Heater	NPR =	GAS
1	Dishwasher	NPR =	1500
1	Garbage Disposal	NPR =	1500
1	Washer	NPR =	1500
1	Dryer	NPR =	5000
1	Motor loads	NPR =	1430
	Other loads	=	
	Other loads	=	
		Subtotal =	29860
		Less -	10,000
		+	10,000
		Total =	9463 x .40 = + 7654
		Grand Total (watts) =	37424

CITY OF SACRAMENTO
PERMIT ASSISTANCE
JUL 19 2001
RECEIVED
0109183R

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

Watts = Volts X Amps

Grand Total (watts) 37424 ÷ 240 Volts = 156.02 Service Load (Amps.)

Service size : 200 Amp.

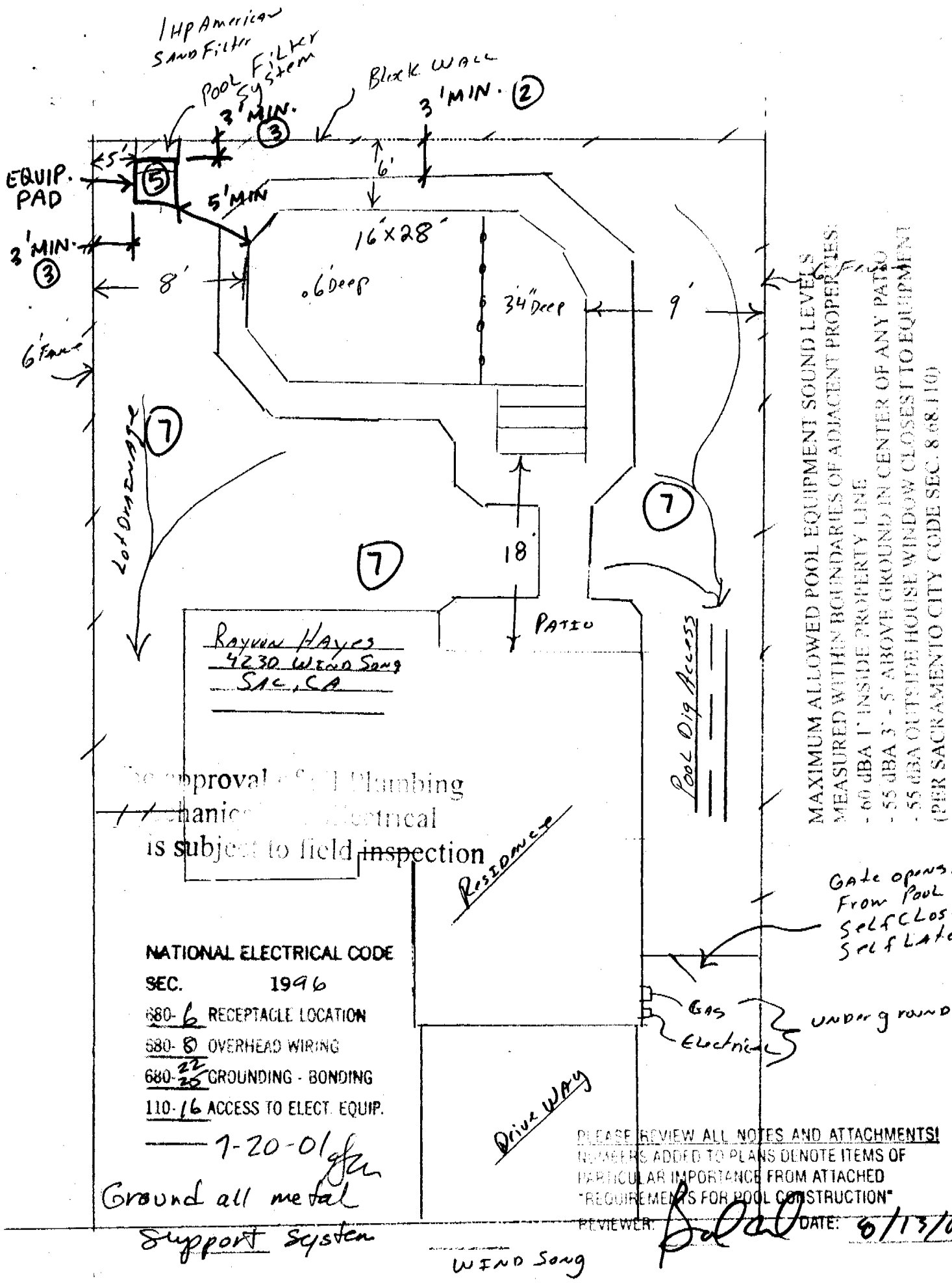
Sub-panels to be installed ? NO How many? _____
Amp Rating? _____ Wire Size? _____

Imperial Pools — 455-629 C-53

(Print name) - Electrical Contractor / Owner - Builder — State License number

(Signature) - Electrical Contractor / Owner - Builder

permitselecwksh.doc



MAXIMUM ALLOWED POOL EQUIPMENT SOUND LEVELS
MEASURED WITHIN BOUNDARIES OF ADJACENT PROPERTIES:
- 60 dBA 1' INSIDE PROPERTY LINE
- 55 dBA 3' - 5' ABOVE GROUND IN CENTER OF ANY PATIO
- 55 dBA OUTSIDE HOUSE WINDOW CLOSEST TO EQUIPMENT
(PER SACRAMENTO CITY CODE SEC. 8.68.110)

No approval of Civil Plumbing
Mechanical Electrical
is subject to field inspection

NATIONAL ELECTRICAL CODE
SEC. 1996
680-6 RECEPTACLE LOCATION
680-8 OVERHEAD WIRING
680-22/25 GROUNDING - BONDING
110-16 ACCESS TO ELECT. EQUIP.

7-20-01 gfn
Ground all metal Support System

PLEASE REVIEW ALL NOTES AND ATTACHMENTS!
NUMBERS ADDED TO PLANS DENOTE ITEMS OF PARTICULAR IMPORTANCE FROM ATTACHED "REQUIREMENTS FOR POOL CONSTRUCTION"
REVIEWER: DATE: 8/13/01

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CITY OF SACRAMENTO
PERMIT ASSISTANCE
JUL 19 2001
RECEIVED
0109183R

MARR SHAFFER & MIYAMOTO
STRUCTURAL ENGINEERS, INC.

MSM Job No. 00171.03
March 15, 2001

STRUCTURAL CALCULATIONS & SKETCHES

FOR:

Imperial Pools
Roseville, CA

CITY OF SACRAMENTO
PERMIT ASSISTANCE

JUL 1 9 2001

RECEIVED
0109183R

REGISTERED PROFESSIONAL ENGINEER
ROBERT S. GLASGOW
No. C 051518
Exp. 6-30-02
CIVIL
STATE OF CALIFORNIA

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president

ROBERT S. GLASGOW, P.E.
LON M. DETERMAN, P.E.
senior associates

GARY A. PARKER
JOHN R. TAYLOR
associates

JOHN M. SHAFFER, M.S., S.E.
of counsel

DESIGN ASSUMPTIONS

1. Equivalent fluid pressure of backfill soil to be 35 pcf.
2. Pool to be backfilled simultaneously with filling of the pool bowl with water (± 12") backfill to be puddled and tamped by hand --- No mechanical Methods.
3. Pool may be drained at any future time for short repair periods, provided ground water is below main drain. "A" - Frame must be shored as required during drained condition.

MATERIAL PROPERTIES

1. GAGE MATERIAL — Copper bearing Steel ASTM A-653 GALV. coating

Yield Strength	F_y = 30 ksi min.
Working Stress	F_s = 18 ksi
Flexural Modulus	ε = 29500 ksi

2. HOT ROLLED SHAPE — ASTM A-36 with A-123 GALV. Coating

Tensile Strength	F_T = 21.6 ksi
Yield Strength	F_y = 36 ksi
Working Strength	F_s = 24 ksi
Flexural Modulus	ε = 29000 ksi

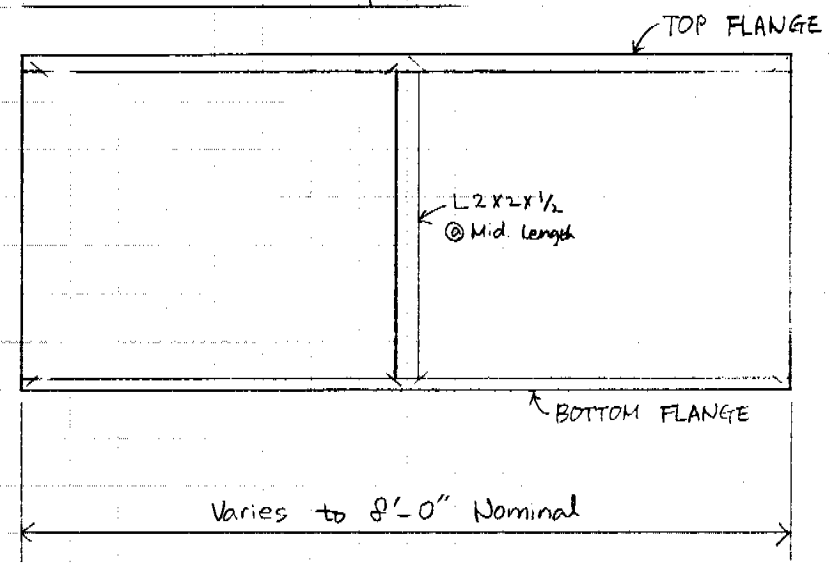
3. FASTENERS

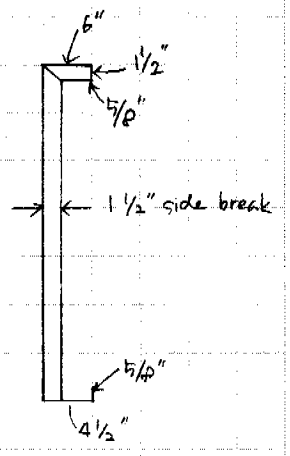
Bolts	A307
NUTS	A563 GA

PANEL DESIGN - STANDARD PANEL

Panel was modeled by using SAP2000 plate element with loading shown below. (Refer to p. 1B ~ 26B)

PANEL GEOMETRY





Std Pnl

PANEL LOADING

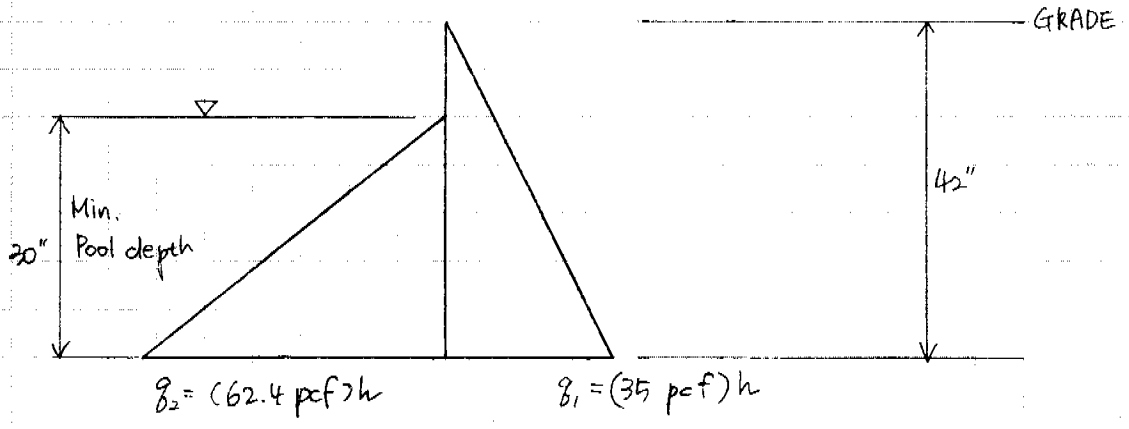


PLATE DESIGN

PLATE STRESS

Max. Moment 11.36 lk-in for the plate calculated by SAP2000 (→ See P. 24B)

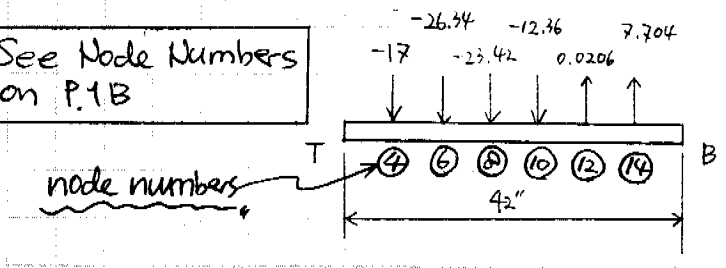
$S_{req'd} = \frac{11.36\ lk\text{-}in}{(0.6)(30000\ psi)} = 6.38\ E-04\ in^3/in$

$S_{prov.}(14GA) = \frac{(1)(0.0747)^2}{6} = 9.0\ E-04\ in^3/in > 6.38E-04\ in^3/in \rightsquigarrow O.K.$ "

USE 14" GA PL WITH STIF @ 48" O.C.

MID PANEL STIFFENER & PANEL EDGES

See Node Numbers on P.1B



See 3.4A

By using ECOM program, the reactions and the moment are calculated for the vertical stiffener. → See Ref. ECOM of the stiffner (3.1A ~ 3.3A)

$R_T = 50.96\ lk$

$R_B = -20.44\ lk$

Max. $M = 555\ lk\text{-}in$

$S_{req'd} = \frac{555\ lk\text{-}in}{18000\ lk/in^2} = 0.031\ in^3 < S_{prov} = 0.206$ (See P. 10A) → O.K.

Jewel pool & Classic pool "

$= 0.65$ (See P. 11A)

Generic pool "

< 0.096 Pool Edges (See P. 8A) "

PROGRAM : General Frame Analysis v2.05 PAGE NO. 1
Marr Shaffer & Miyamoto, Inc. TIME : Tue Jul 25 10:29:03 2000
JOB : Imperial Pools JOB NO. : 30
RUN : Stiffener

N O D A L I N F O R M A T I O N

NODE NO	NODAL COORDINATES X	Y	SUPPORT CONDITIONS CODE	PX STIFF	PY STIFF	M STIFF
Units :	In	In		Lb/In	Lb/In	Lb-In /Deg
1	0.000	0.000	H			
2	42.000	0.000	XR			

E L E M E N T I N F O R M A T I O N

ELEM NO	NE NODE	PE NODE	ELEM LENGTH	BETA ANGLE	PROP TYPE	ELEM TYPE	NE HINGE	PE HINGE
	Units :	In		Deg				
1	1	2	42.000	0.00	1	BEAM		

E L E M E N T L O A D I N F O R M A T I O N

REC NO	LOAD CASE	LOAD TYPE	LOAD SYS	DIST SPEC		DIST	PX	PY	M
					Units :	In	Lb/In	Lb/In	In-Lb /In
Description : p1									
Element List : 1									
1	1	CONC	GLO	DIST	B	6.00	0.00	-17.00	0.00
Description : p2									
Element List : 1									
2	1	CONC	GLO	DIST	B	12.00	0.00	-26.34	0.00
Description : p3									
Element List : 1									
3	1	CONC	GLO	DIST	B	18.00	0.00	-23.42	0.00

PROGRAM : General Frame Analysis v2.05 PAGE NO. 2
Marr Shaffer & Miyamoto, Inc. TIME : Tue Jul 25 10:29:03 2000
JOB : Imperial Pools JOB NO. : 30
RUN : Stiffener

E L E M E N T L O A D I N F O R M A T I O N

REC NO	LOAD CASE	LOAD TYPE	LOAD SYS	DIST SPEC		DIST	PX	PY	M
Description : p4									
Element List : 1									
4	1	CONC	GLO	DIST	B	24.00	0.00	-12.36	0.00
Description : p5									
Element List : 1									
5	1	CONC	GLO	DIST	B	30.00	0.00	0.02	0.00
Description : p6									
Element List : 1									
6	1	CONC	GLO	DIST	B	36.00	0.00	7.70	0.00

PROGRAM : General Frame Analysis v2.05 PAGE NO. 3
Marr Shaffer & Miyamoto, Inc. TIME : Tue Jul 25 10:29:04 2000
JOB : Imperial Pools JOB NO. : 30
RUN : Stiffener

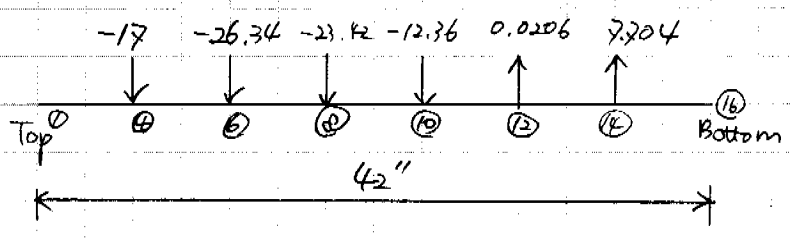
E L E M E N T R E P O R T S

SIGN CONVENTION : BEAM DESIGNERS

ELEM NO	LOAD COMB	NODE NO	AXIAL	SHEAR	MOMENT	MAX MOM/DEFL	DIST
		Units :	Lb	Lb	Lb-In	Lb-In /In	In
LOAD COMBINATIONS:							
COMB 1 : 1.00 X CASE 1							
1	1	1	0.0000	50.9593	0.0000	555.2266	18.00
		2	0.0000	-20.4361	0.0000		

R E A C T I O N S

NODE NO	LOAD COMB	PX	PY	MOMENT
	Units :	Lb	Lb	Lb-In
LOAD COMBINATIONS:				
COMB 1 : 1.00 X CASE 1				
1	1	0.0000	50.9593	0.0000
2	1	0.0000	20.4361	0.0000



See 1B + 20B

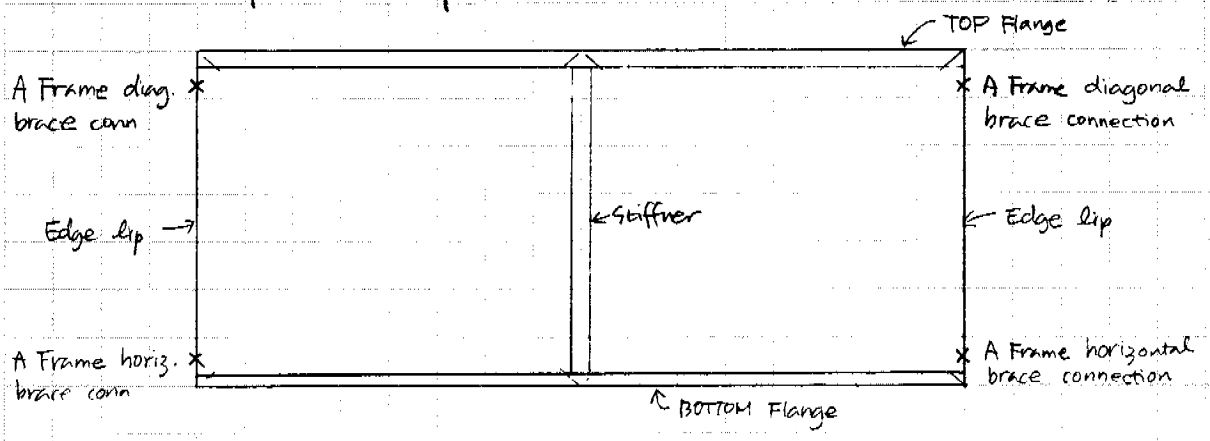
at points 1, 4, 6, 8, 10, 12, 14, 16

4 ; -8.5 (from page 20B) x 2 = -17
6 ; -13.17 x 2 = -26.34
8 ; -11.71 x 2 = -23.42
10 ; -6.18 x 2 = -12.36
12 ; 0.0103 x 2 = 0.0206
14 ; 3.852 x 2 = 7.704

↑ Reaction F_3 Column

PANEL DESIGN

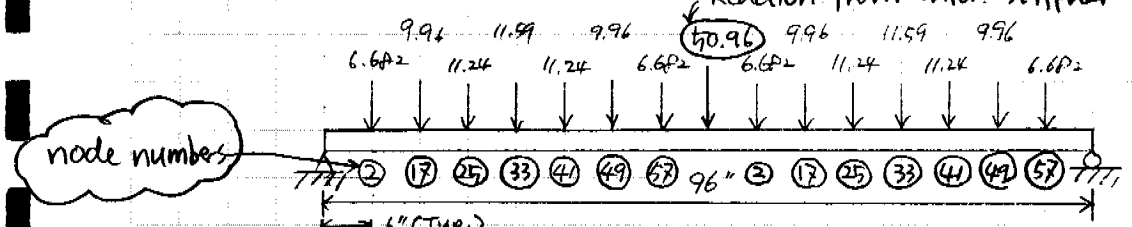
Check panel to span horizontal between A Frames



TOP FLANGE LOADING — Loads obtained by SAP 2000 model

(→ See P. 20B ~ 22B)

Reaction from mid. stiffner (See P. 3A)



R = 92.83 lb → See Ref. ECOM of the top flange (41.A ~ 44.A)

M = 2840 lb-in

$S_{req'd} = \frac{2840}{18000} = 0.158\ in^3 < S_{prov} = 0.321\ in^3$ ⟿ O.K! (See P. 9A)
Jewel & Classic Pools

$< S_{prov} = 0.65\ in^3$ (See P. 11A)
Generic Pools

See Node Numbers on P. 1B

PROGRAM : General Frame Analysis v2.05 PAGE NO. 1
Marr Shaffer & Miyamoto, Inc. TIME : Mon Jul 24 08:26:01 2000
JOB : Imperial Pool JOB NO. : 26
RUN : Top Flange

N O D A L I N F O R M A T I O N

NODE NO	NODAL COORDINATES X	Y	SUPPORT CONDITIONS CODE	PX STIFF	PY STIFF	M STIFF
Units :	In	In		Lb/In	Lb/In	Lb-In /Deg
1	0.000	0.000	H			
2	96.000	0.000	XR			

E L E M E N T I N F O R M A T I O N

ELEM NO	NE NODE	PE NODE	ELEM LENGTH	BETA ANGLE	PROP TYPE	ELEM TYPE	NE HINGE	PE HINGE
Units :		In		Deg				
1	1	2	96.000	0.00	1	BEAM		

E L E M E N T L O A D I N F O R M A T I O N

REC NO	LOAD CASE	LOAD TYPE	LOAD SYS	DIST SPEC		DIST	PX	PY	M
					Units :	In	Lb/In	Lb/In	In-Lb /In
Description : p1									
Element List : 1									
1	1	CONC	GLO	DIST	B	6.00	0.00	-6.68	0.00
Description : p2									
Element List : 1									
2	1	CONC	GLO	DIST	B	12.00	0.00	-9.96	0.00
Description : p3									
Element List : 1									
3	1	CONC	GLO	DIST	B	18.00	0.00	-11.24	0.00

PROGRAM : General Frame Analysis v2.05 PAGE NO. 2
Marr Shaffer & Miyamoto, Inc. TIME : Mon Jul 24 08:26:03 2000
JOB : Imperial Pool JOB NO. : 26
RUN : Top Flange

E L E M E N T L O A D I N F O R M A T I O N

REC NO	LOAD CASE	LOAD TYPE	LOAD SYS	DIST SPEC		DIST	PX	PY	M
Description : p4									
Element List : 1									
4	1	CONC	GLO	DIST	B	24.00	0.00	-11.59	0.00
Description : p5									
Element List : 1									
5	1	CONC	GLO	DIST	B	30.00	0.00	-11.24	0.00
Description : p6									
Element List : 1									
6	1	CONC	GLO	DIST	B	36.00	0.00	-9.96	0.00
Description : p7									
Element List : 1									
7	1	CONC	GLO	DIST	B	42.00	0.00	-6.68	0.00
Description : r1									
Element List : 1									
8	1	CONC	GLO	DIST	B	48.00	0.00	-50.96	0.00
Description : p1'									
Element List : 1									
9	1	CONC	GLO	DIST	B	54.00	0.00	-6.68	0.00
Description : p2'									
Element List : 1									
10	1	CONC	GLO	DIST	B	60.00	0.00	-9.96	0.00
Description : p3'									
Element List : 1									
11	1	CONC	GLO	DIST	B	66.00	0.00	-11.24	0.00
Description : p4'									
Element List : 1									
12	1	CONC	GLO	DIST	B	72.00	0.00	-11.59	0.00
Description : p5'									
Element List : 1									
13	1	CONC	GLO	DIST	B	78.00	0.00	-11.24	0.00
Description : p6'									
Element List : 1									
14	1	CONC	GLO	DIST	B	84.00	0.00	-9.96	0.00
Description : p7'									
Element List : 1									

4.3.A

PROGRAM : General Frame Analysis v2.05 PAGE NO. 3
Marr Shaffer & Miyamoto, Inc. TIME : Mon Jul 24 08:26:03 2000
JOB : Imperial Pool JOB NO. : 26
RUN : Top Flange

E L E M E N T L O A D I N F O R M A T I O N

REC NO	LOAD CASE	LOAD TYPE	LOAD SYS	DIST SPEC		DIST	PX	PY	M
15	1	CONC	GLO	DIST	B	90.00	0.00	-6.68	0.00

PROGRAM : General Frame Analysis v2.05 PAGE NO. 4
Marr Shaffer & Miyamoto, Inc. TIME : Mon Jul 24 08:26:04 2000
JOB : Imperial Pool JOB NO. : 26
RUN : Top Flange

E L E M E N T R E P O R T S

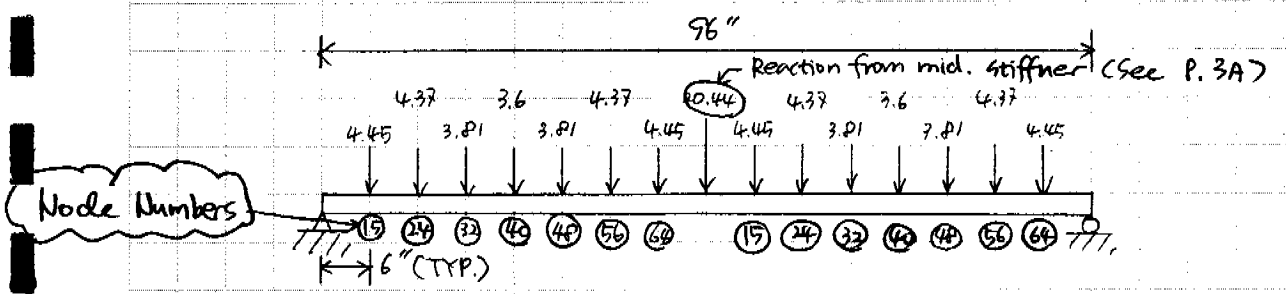
SIGN CONVENTION : BEAM DESIGNERS

ELEM NO	LOAD COMB	NODE NO	AXIAL	SHEAR	MOMENT	MAX MOM/DEFL	DIST
		Units :	Lb	Lb	Lb-In	Lb-In /In	In
LOAD COMBINATIONS:							
COMB 1 : 1.00 X CASE 1							
1	1	1	0.0000	92.8340	0.0000	2839.5360	48.00
		2	0.0000	-92.8340	0.0000		

R E A C T I O N S

NODE NO	LOAD COMB	PX	PY	MOMENT
	Units :	Lb	Lb	Lb-In
LOAD COMBINATIONS:				
COMB 1 : 1.00 X CASE 1				
1	1	0.0000	92.8340	0.0000
2	1	0.0000	92.8340	0.0000

BOTTOM FLANGE LOADING — Loads obtained from SAP2000 model (See P. 20B ~ 22B)



R = 39.1 lb → See Ref. ECOH of the bottom flange (5.1A ~ 5.4A)

M = 1183.2 lb-in

$S_{req'd} = \frac{1183.2}{18000} = 0.066 < S_{prov} = 0.321\ in^3$ ⟶ O.K. (See P. 9A)

Jewel & Classic Pools

See Node Numbers on P. 1B

$< S_{prov} = 0.65\ in^3$ (See P. 11A)

Generic Pools

PROGRAM : General Frame Analysis v2.05 PAGE NO. 1
Marr Shaffer & Miyamoto, Inc. TIME : Mon Jul 24 09:01:36 2000
JOB : Imperial Pool JOB NO. : 27
RUN : Bottom Flange

N O D A L I N F O R M A T I O N

NODE NO	NODAL COORDINATES X	Y	SUPPORT CONDITIONS CODE	PX STIFF	PY STIFF	M STIFF
Units :	In	In		Lb/In	Lb/In	Lb-In /Deg
1	0.000	0.000	H			
2	96.000	0.000	XR			

E L E M E N T I N F O R M A T I O N

ELEM NO	NE NODE	PE NODE	ELEM LENGTH	BETA ANGLE	PROP TYPE	ELEM TYPE	NE HINGE	PE HINGE
		Units : In		Deg				
1	1	2	96.000	0.00	1	BEAM		

E L E M E N T L O A D I N F O R M A T I O N

REC NO	LOAD CASE	LOAD TYPE	LOAD SYS	DIST SPEC		DIST	PX	PY	M
					Units :	In	Lb/In	Lb/In	In-Lb /In
Description : p1									
Element List : 1									
1	1	CONC	GLO	DIST	B	6.00	0.00	4.45	0.00
Description : p2									
Element List : 1									
2	1	CONC	GLO	DIST	B	12.00	0.00	4.37	0.00
Description : p3									
Element List : 1									
3	1	CONC	GLO	DIST	B	18.00	0.00	3.81	0.00

5.2A

E L E M E N T L O A D I N F O R M A T I O N

REC NO	LOAD CASE	LOAD TYPE	LOAD SYS	DIST SPEC		DIST	PX	PY	M
Description : p4									
Element List : 1									
4	1	CONC	GLO	DIST	B	24.00	0.00	3.60	0.00
Description : p5									
Element List : 1									
5	1	CONC	GLO	DIST	B	30.00	0.00	3.81	0.00
Description : p6									
Element List : 1									
6	1	CONC	GLO	DIST	B	36.00	0.00	4.37	0.00
Description : p7									
Element List : 1									
7	1	CONC	GLO	DIST	B	42.00	0.00	4.45	0.00
Description : r2									
Element List : 1									
8	1	CONC	GLO	DIST	B	48.00	0.00	20.44	0.00
Description : p1'									
Element List : 1									
9	1	CONC	GLO	DIST	B	54.00	0.00	4.45	0.00
Description : p2'									
Element List : 1									
10	1	CONC	GLO	DIST	B	60.00	0.00	4.37	0.00
Description : p3'									
Element List : 1									
11	1	CONC	GLO	DIST	B	66.00	0.00	3.81	0.00
Description : p4'									
Element List : 1									
12	1	CONC	GLO	DIST	B	72.00	0.00	3.60	0.00
Description : p5'									
Element List : 1									
13	1	CONC	GLO	DIST	B	78.00	0.00	3.81	0.00
Description : p6'									
Element List : 1									
14	1	CONC	GLO	DIST	B	84.00	0.00	4.37	0.00
Description : p7'									
Element List : 1									

5.3A

E L E M E N T L O A D I N F O R M A T I O N

REC NO	LOAD CASE	LOAD TYPE	LOAD SYS	DIST SPEC		DIST	PX	PY	M
15	1	CONC	GLO	DIST	B	90.00	0.00	4.45	0.00

5.4A

PROGRAM : General Frame Analysis v2.05 PAGE NO. 4
Marr Shaffer & Miyamoto, Inc. TIME : Mon Jul 24 09:01:37 2000
JOB : Imperial Pool JOB NO. : 27
RUN : Bottom Flange

E L E M E N T R E P O R T S

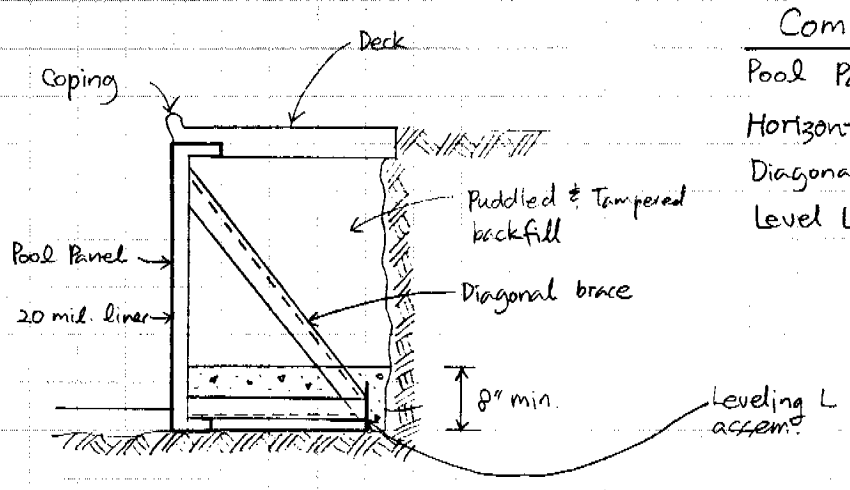
SIGN CONVENTION : BEAM DESIGNERS

ELEM NO	LOAD COMB	NODE NO	AXIAL	SHEAR	MOMENT	MAX MOM/DEFL	DIST
		Units :	Lb	Lb	Lb-In	Lb-In /In	In
LOAD COMBINATIONS:							
COMB 1 : 1.00 X CASE 1							
1	1	1	0.0000	-39.0800	0.0000	-1183.2000	48.00
		2	0.0000	39.0800	0.0000		

R E A C T I O N S

NODE NO	LOAD COMB	PX	PY	MOMENT
	Units :	Lb	Lb	Lb-In
LOAD COMBINATIONS:				
COMB 1 : 1.00 X CASE 1				
1	1	0.0000	-39.0800	0.0000
2	1	0.0000	-39.0800	0.0000

A - FRAME DESIGN



Component Sizes

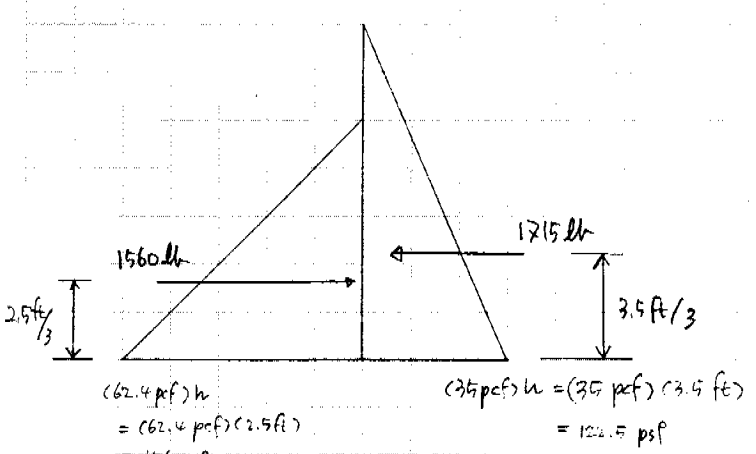
Pool Panel - 14GA

Horizontal Brace - 2x2 x 14GA

Diagonal Brace - 1½ x 1½ x 12GA L

Level L - 5½ x 5½ x 14GA x 11"

Check Diagonal Brace



(62.4 pcf) h
= (62.4 pcf)(2.5 ft)
= 156 psf

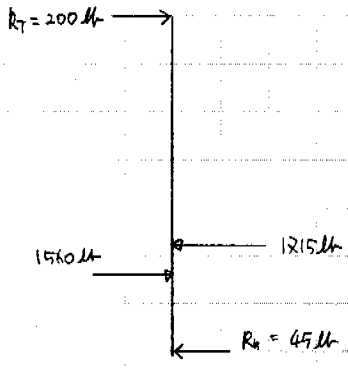
156 psf x 2.5 ft x ½
= 195 p/ft

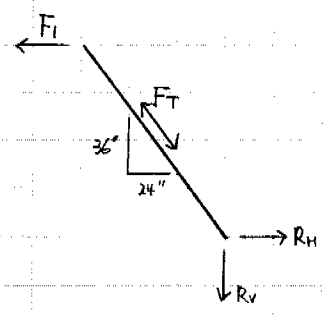
195 p/ft x 8 ft
= 1560 lb

(35 pcf) h = (35 pcf)(3.5 ft)
= 122.5 psf

122.5 psf x 3.5 ft x ½ = 214.4 p/ft

214.4 p/ft x 8 ft
= 1715 lb





F_I = 200 lb

F_T = (200 lb)($\sqrt{36^2+24^2}$ /24) = 361 lb

f_t = 361 lb / 0.3028 in² = 1192 psi = 1.19 ksi

↑ See P. 6.2A
(A = 0.3028 in² for L 1½ x 1½ x 12GA)

f_t = 1.19 ksi < 30(0.6) = 18 ksi ⟶ O.K.!

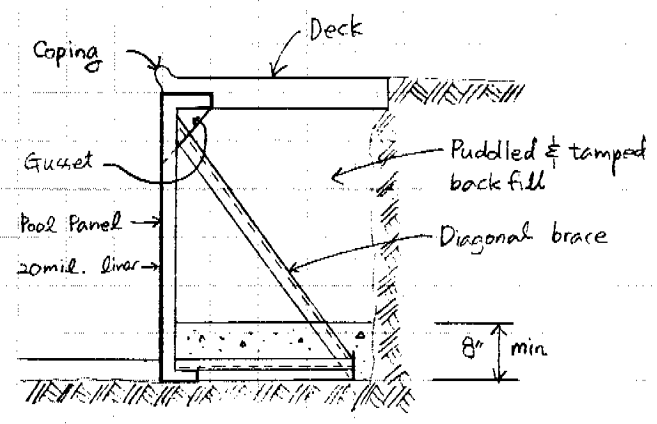
Bolt shear = 361 lb / 0.11 in² = 3.3 ksi < 10 ksi ⇝ O.K!
for 3/8" bolt.

Check Bearing $P_b = P_n/\Omega_b = \frac{(2.22)F_u(t)(d_c)}{2.22}$ $P_b = 1.0\,(30\,ksi)\,(0.1046\,in)\,(0.375\,in)$
$= 1177\,lb > 361\,lb \rightsquigarrow O.K!$

USE 1½ x 1½ x 12 GA. Stl L
w/ 1- 3/8" ø m. bolt @ each end.

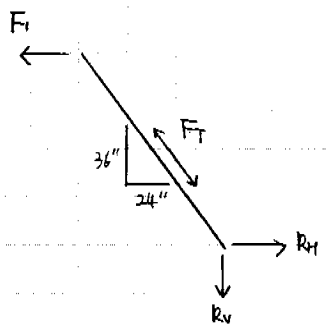
A - FRAME DESIGN

ALTERNATE



Component Sizes
Pool Panel - 14GA
Horizontal Brace - 2x2 X 14GA
Diagonal Brace - 2 X ¾ X 14GA C
Level L - 4 x 4 X 14 GA x16"

Check Diagonal Brace



$F_1 = 200\,lb$
$F_T = (200\,lb)(\sqrt{36^2+24^2}/24) = 361\,lb$
$f_t = \frac{361\,lb}{[2+2(\frac{3}{4})].075} = 1375\,psi = 1.38\,ksi$

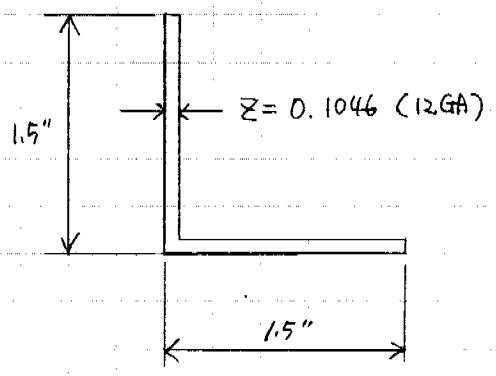
$f_t = 1.38\,ksi < F_a = 30\,(0.6) = 18\,ksi$

Bolt shear = 361 lb / 0.11 in² = 3.3 ksi < 12 ksi ⇝ O.K!
for 3/8" bolt

Check Bearing
$P_b = 1.0\,(30\,ksi)\,(0.0742\,in)\,(0.375\,in)$
$= 840\,lb > 361\,lb \rightsquigarrow O.K!$

USE 2 x ¾ x 14 GA C
w/ 1- 3/8" ø m. bolt @ each end

SECTION PROPERTIES



SECTION	SIZE (B x D)		DISTANCE	A=B*D	M=A*Y	$I_y=AY^2=MY$	$I_g=BD^3/12$
	B (in)	D (in)	Y (in)	(in^2)	(in^3)	(in^4)	(in^4)
Web	0.1046	1.5000	0.75	0.1569	0.1177	0.0883	0.0294
Flange	1.3950	0.1046	0.0523	0.1459	0.0076	0.0004	0.0001
			TOTAL	**0.3028**	**0.1253**	**0.0887**	**0.0296**

Nb = M/A = **0.4138 in** **TOTAL DEPTH = 1.500 in**

N_t = TOTAL DEPTH - N_b = **1.086 in**

I_n = Iy + Ig - M2/A = **0.0664 in^4**

S_t = I_n / N_t = **0.061 in^3**

S_b = I_n / N_b = **0.160 in^3**

r = $\sqrt{I_n / A}$ = **0.468 in**

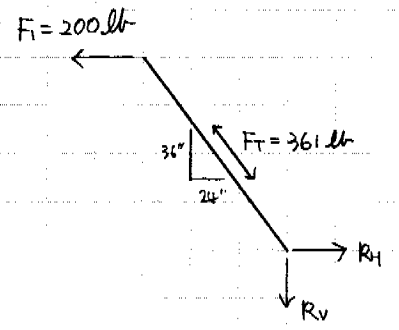
K_t = I_n/AN_b = **0.530 in**

K_b = In/AN_t = **0.202 in**

Wt = 470 (lb/ft^3) * (0.3028 / 144) * 1 = **0.99 lb/ft**

A - FRAME DESIGN (CONT.)

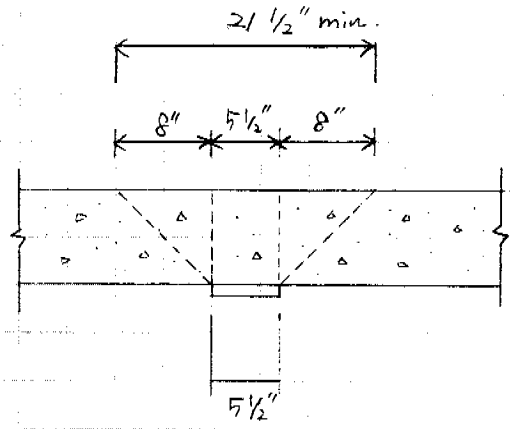
CHECK LEVEL PLATE ASSEMBLY

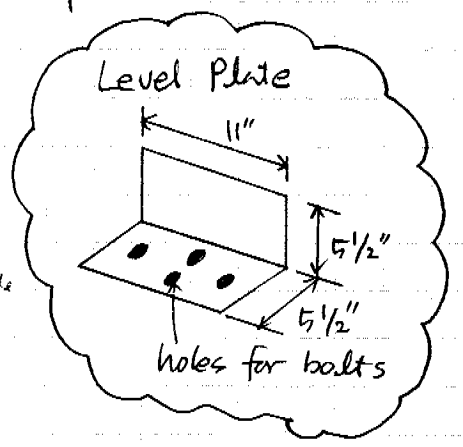


$R_H = 200\ lb$

$R_V = (361\ lb)\dfrac{36}{\sqrt{36^2+24^2}} = 300\ lb$

Use Wt of soil above plate assembly to resist uplift





$W_s = \dfrac{(21.5\ in)(21.5\ in)}{144}(3.5\ ft)(100\ pcf) = 1124\ lb$

F.S. $= 1124/300 = 3.74$ ⟶ O.K.!

Check Sliding

$F_{friction} = 0.3\,(Wt) > V$

where Weight = (100 pcf)(3.5ft)(2.5ft)(8ft)
volume of soils behind A frame

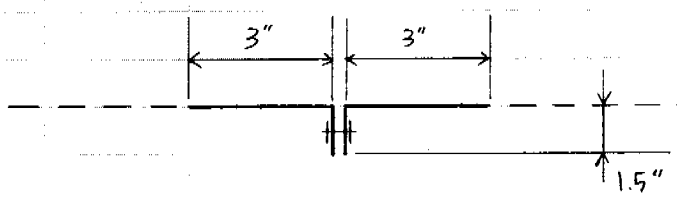
= 7000 lb

V = 200 lb − 45 lb = 155 lb

0.3 (7000) = 2100 lb > 155 lb ⟶ O.K!

Standard & 2 3/8" Pool Panel
At Edges

SECTION PROPERTIES



SECTION	SIZE (B x D)		DISTANCE	A=B*D	M=A*Y	$I_y=AY^2=MY$	$I_g=BD^3/12$
	B (in)	D (in)	Y (in)	(in^2)	(in^3)	(in^4)	(in^4)
Pool Panel	6	0.075	1.463	0.4500	0.6584	0.9632	0.0002
Back Bracket	0.149	1.5	0.75	0.2235	0.1676	0.1257	0.0419
			TOTAL	0.6735	0.8260	1.0889	0.0421

Nb = M/A = **1.226 in** **TOTAL DEPTH = 1.500 in**

N_t = Total Depth - Nb = **0.274 in**

I_n = Iy + Ig - M2/A = **0.118 in^4**

S_t = I_n / N_t = **0.431 in^3**

S_b = I_n / N_b = **0.096 in^3**

r = $\sqrt{I_n / A}$ = **0.419 in**

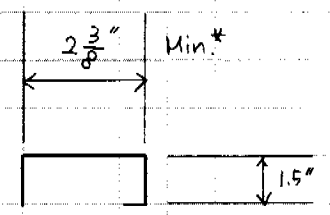
K_t = I_n/AN_b = **0.143 in**

K_b = In/AN_t = **0.641 in**

Standard Pool Panel

Top Flange

SECTION PROPERTIES



TOP FLANGE
BOTTOM FLANGE

* 2.375" For Jewel Series
5 " For Classic Series

SECTION	SIZE (B x D)		DISTANCE	A=B*D	M=A*Y	$I_y=AY^2=MY$	$I_g=BD^3/12$
	B (in)	D (in)	Y (in)	(in^2)	(in^3)	(in^4)	(in^4)
Back Lip	1.5	0.0747	2.337	0.1121	0.2619	0.6120	0.0001
Top Flange	0.0747	2.375	1.1875	0.1774	0.2107	0.2502	0.0834
Panel Face	1.5	0.0747	0.0374	0.1121	0.0042	0.0002	0.0001
			TOTAL	**0.4015**	**0.4767**	**0.8623**	**0.0835**

Nb = M/A = **1.187 in** **TOTAL DEPTH = 2.375 in**

N_t = TOTAL DEPTH - N_b = **1.188 in**

I_n = Iy + Ig - M2/A = **0.3798 in^4**

S_t = I_n / N_t = **0.320 in^3**

S_b = I_n / N_b = **0.320 in^3**

r = $\sqrt{I_n / A}$ = **0.973 in**

K_t = I_n/AN_b = **0.797 in**

K_b = In/AN_t = **0.7964 in**

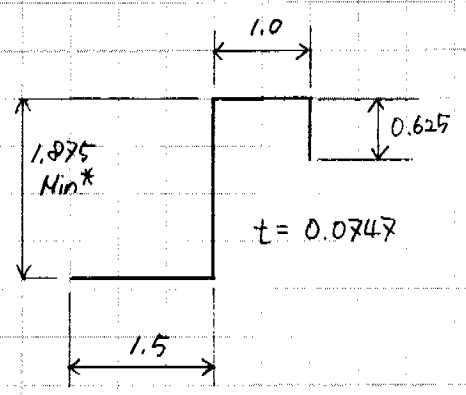
MARR SHAFFER & MIYAMOTO
STRUCTURAL ENGINEERS, INC.

JOB Imperial Pools SHEET NO. 10A

JOB NUMBER 00171 CALC. BY SMK DATE 07/21/00

SECTION PROPERTIES

VERTICAL STIFFNER



* 1.875" For Jewel Series
5" For Classic Series

SECTION	SIZE (B x D)		DISTANCE	A=B*D	M=A*Y	$I_y=AY^2=MY$	$I_g=BD^3/12$
	B (in)	D (in)	Y (in)	(in^2)	(in^3)	(in^4)	(in^4)
	0.0747	0.55	1.525	0.0411	0.0627	0.0955	0.0010
	1	0.0747	1.837	0.0747	0.1372	0.2521	0.0000
	0.0747	1.726	0.9375	0.1289	0.1209	0.1133	0.0320
	1.5	0.0747	0.0374	0.1121	0.0042	0.0002	0.0001
			TOTAL	**0.3568**	**0.3249**	**0.4611**	**0.0331**

Nb = M/A = **0.911 in** **TOTAL DEPTH = 1.875 in**

N_t = TOTAL DEPTH - N_b = **0.964 in**

I_n = Iy + Ig - M2/A = **0.1983 in^4**

S_t = I_n / N_t = **0.206 in^3**

S_b = I_n / N_b = **0.218 in^3**

r = $\sqrt{I_n / A}$ = **0.745 in**

K_t = I_n/AN_b = **0.610 in**

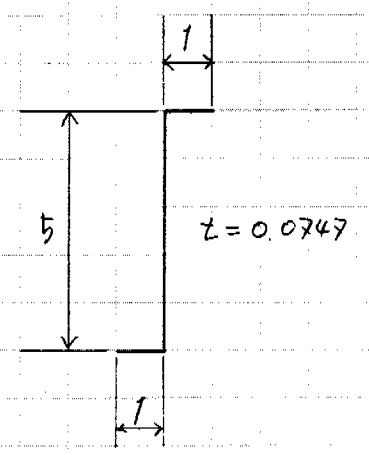
K_b = In/AN_t = **0.576 in**

MARR SHAFFER & MIYAMOTO
STRUCTURAL ENGINEERS, INC.

JOB Imperial Pools SHEET NO. 11A

JOB NUMBER 00171 CALC. BY SMK DATE 07/21/00

SECTION PROPERTIES



VERTICAL STIFFNER & TOP & BOTTOM FLANGE

Generic Pool

SECTION	SIZE (B x D)		DISTANCE	A=B*D	M=A*Y	$I_y=AY^2=MY$	$I_g=BD^3/12$
	B (in)	D (in)	Y (in)	(in^2)	(in^3)	(in^4)	(in^4)
	1	0.0747	4.963	0.0747	0.3707	1.8400	0.0000
	0.0747	4.8510	2.5	0.3624	0.9059	2.2648	0.7106
	1	0.0747	0.0374	0.0747	0.0028	0.0001	0.0000
			TOTAL	**0.5118**	**1.2795**	**4.1049**	**0.7107**

Nb = M/A = **2.500 in** **TOTAL DEPTH = 5.000 in**

N_t = TOTAL DEPTH - N_b = **2.500 in**

I_n = Iy + Ig - M2/A = **1.6169 in^4**

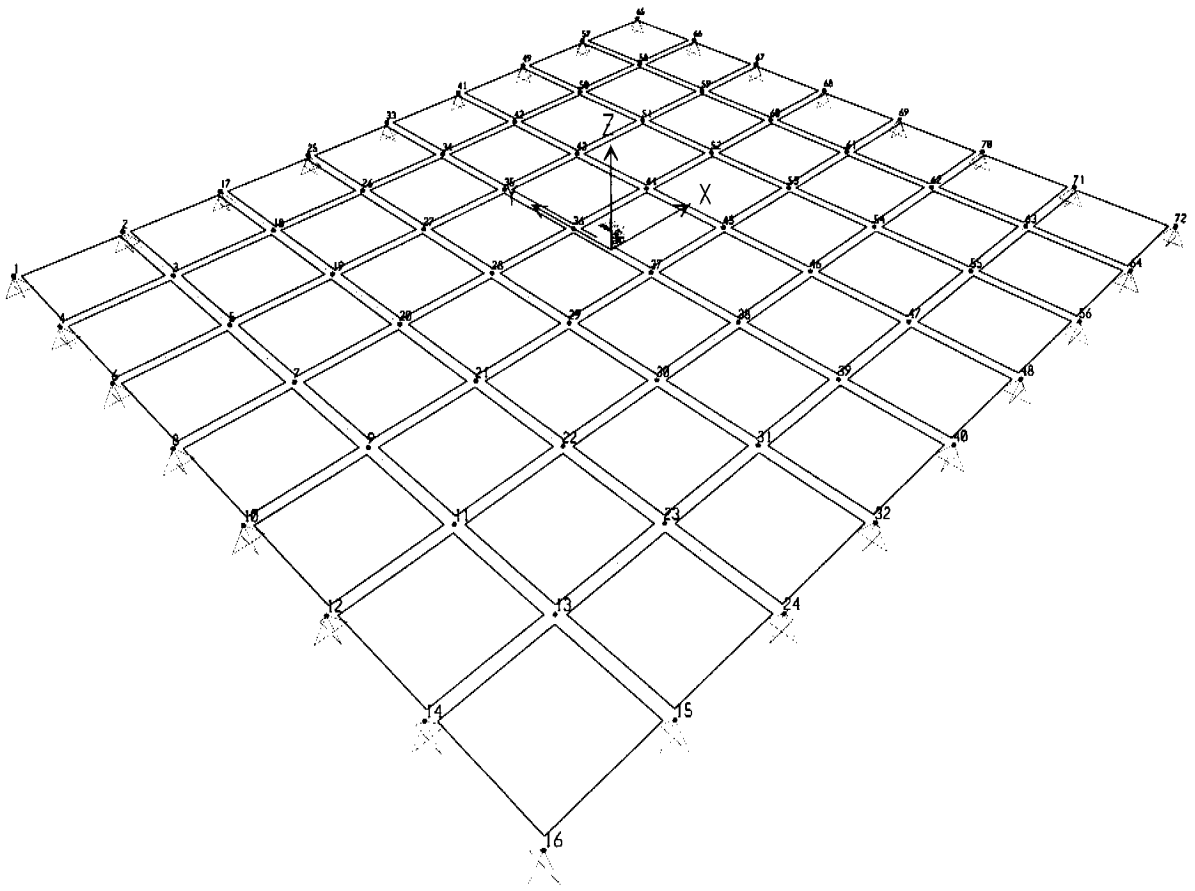
S_t = I_n / N_t = **0.647 in^3**

S_b = I_n / N_b = **0.647 in^3**

r = $\sqrt{I_n / A}$ = **1.777 in**

K_t = I_n/AN_b = **1.264 in**

K_b = In/AN_t = **1.264 in**


Z
X

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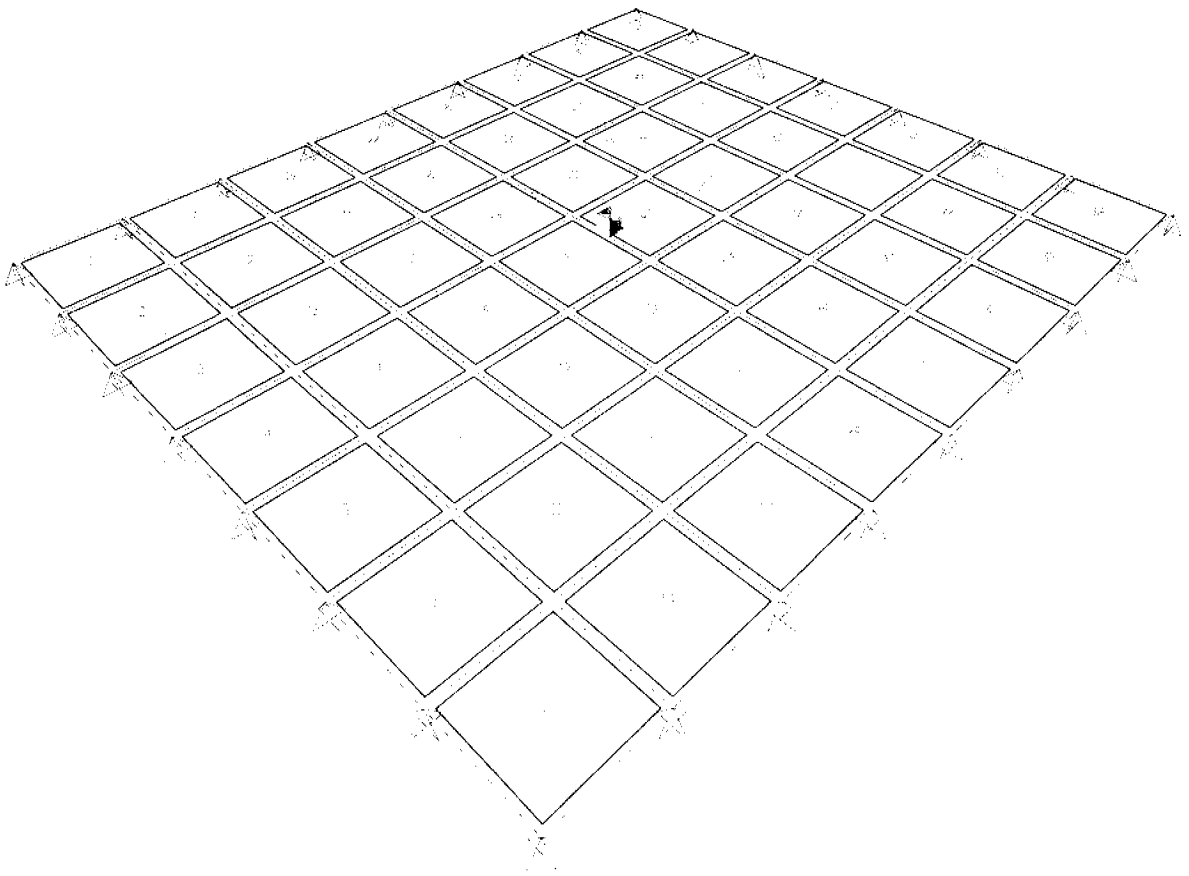
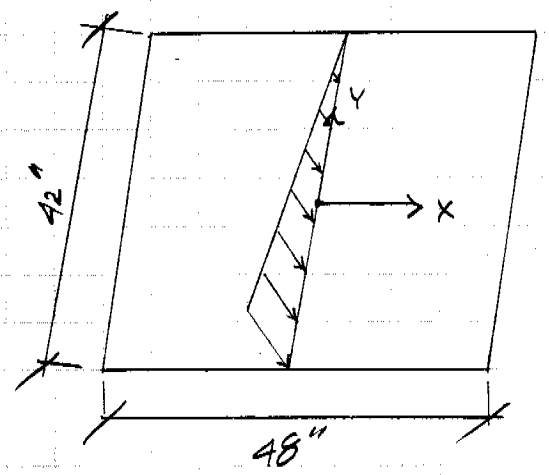


SAP2000 v7.21 - File:Pool - 3-D View - Kip-in Units – SHELL #5


Y
X
42"
48"

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S T A T I C L O A D C A S E S

STATIC CASE	CASE TYPE	SELF WT FACTOR
ACTIVE WATER	OTHER	0.0000
	OTHER	0.0000

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J O I N T D A T A

JOINT	GLOBAL-X	GLOBAL-Y	GLOBAL-Z	RESTRAINTS	ANGLE-A	ANGLE-B	ANGLE-C
1	-24.00000	21.00000	0.00000	1 1 1 0 0 0	0.000	0.000	0.000
2	-18.00000	21.00000	0.00000	1 1 1 0 0 0	0.000	0.000	0.000
3	-18.00000	15.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
4	-24.00000	15.00000	0.00000	1 1 1 0 0 0	0.000	0.000	0.000
5	-18.00000	9.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
6	-24.00000	9.00000	0.00000	1 1 1 0 0 0	0.000	0.000	0.000
7	-18.00000	3.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
8	-24.00000	3.00000	0.00000	1 1 1 0 0 0	0.000	0.000	0.000
9	-18.00000	-3.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
10	-24.00000	-3.00000	0.00000	1 1 1 0 0 0	0.000	0.000	0.000
11	-18.00000	-9.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
12	-24.00000	-9.00000	0.00000	1 1 1 0 0 0	0.000	0.000	0.000
13	-18.00000	-15.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
14	-24.00000	-15.00000	0.00000	1 1 1 0 0 0	0.000	0.000	0.000
15	-18.00000	-21.00000	0.00000	1 1 1 0 0 0	0.000	0.000	0.000
16	-24.00000	-21.00000	0.00000	1 1 1 0 0 0	0.000	0.000	0.000
17	-12.00000	21.00000	0.00000	1 1 1 0 0 0	0.000	0.000	0.000
18	-12.00000	15.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
19	-12.00000	9.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
20	-12.00000	3.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
21	-12.00000	-3.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
22	-12.00000	-9.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
23	-12.00000	-15.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
24	-12.00000	-21.00000	0.00000	1 1 1 0 0 0	0.000	0.000	0.000
25	-6.00000	21.00000	0.00000	1 1 1 0 0 0	0.000	0.000	0.000
26	-6.00000	15.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
27	-6.00000	9.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
28	-6.00000	3.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
29	-6.00000	-3.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
30	-6.00000	-9.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
31	-6.00000	-15.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
32	-6.00000	-21.00000	0.00000	1 1 1 0 0 0	0.000	0.000	0.000
33	0.00000	21.00000	0.00000	1 1 1 0 0 0	0.000	0.000	0.000
34	0.00000	15.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
35	0.00000	9.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
36	0.00000	3.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
37	0.00000	-3.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
38	0.00000	-9.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
39	0.00000	-15.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
40	0.00000	-21.00000	0.00000	1 1 1 0 0 0	0.000	0.000	0.000
41	6.00000	21.00000	0.00000	1 1 1 0 0 0	0.000	0.000	0.000
42	6.00000	15.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
43	6.00000	9.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
44	6.00000	3.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
45	6.00000	-3.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
46	6.00000	-9.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
47	6.00000	-15.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
48	6.00000	-21.00000	0.00000	1 1 1 0 0 0	0.000	0.000	0.000
49	12.00000	21.00000	0.00000	1 1 1 0 0 0	0.000	0.000	0.000
50	12.00000	15.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
51	12.00000	9.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
52	12.00000	3.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
53	12.00000	-3.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
54	12.00000	-9.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
55	12.00000	-15.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
56	12.00000	-21.00000	0.00000	1 1 1 0 0 0	0.000	0.000	0.000
57	18.00000	21.00000	0.00000	1 1 1 0 0 0	0.000	0.000	0.000
58	18.00000	15.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
59	18.00000	9.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
60	18.00000	3.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
61	18.00000	-3.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
62	18.00000	-9.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
63	18.00000	-15.00000	0.00000	0 0 0 0 0 0	0.000	0.000	0.000
64	18.00000	-21.00000	0.00000	1 1 1 0 0 0	0.000	0.000	0.000

65	24.00000	21.00000	0.00000	1 1 1 0 0 0	0.000	0.000	0.000
66	24.00000	15.00000	0.00000	1 1 1 0 0 0	0.000	0.000	0.000
67	24.00000	9.00000	0.00000	1 1 1 0 0 0	0.000	0.000	0.000
68	24.00000	3.00000	0.00000	1 1 1 0 0 0	0.000	0.000	0.000
69	24.00000	-3.00000	0.00000	1 1 1 0 0 0	0.000	0.000	0.000
70	24.00000	-9.00000	0.00000	1 1 1 0 0 0	0.000	0.000	0.000
71	24.00000	-15.00000	0.00000	1 1 1 0 0 0	0.000	0.000	0.000
72	24.00000	-21.00000	0.00000	1 1 1 0 0 0	0.000	0.000	0.000

5B

S H E L L E L E M E N T D A T A

SHELL	JNT-1	JNT-2	JNT-3	JNT-4	SECTION	ANGLE	AREA
1	1	4	3	2	PLATE	0.000	36.000
2	4	6	5	3	PLATE	0.000	36.000
3	6	8	7	5	PLATE	0.000	36.000
4	8	10	9	7	PLATE	0.000	36.000
5	10	12	11	9	PLATE	0.000	36.000
6	12	14	13	11	PLATE	0.000	36.000
7	14	16	15	13	PLATE	0.000	36.000
8	2	3	18	17	PLATE	0.000	36.000
9	3	5	19	18	PLATE	0.000	36.000
10	5	7	20	19	PLATE	0.000	36.000
11	7	9	21	20	PLATE	0.000	36.000
12	9	11	22	21	PLATE	0.000	36.000
13	11	13	23	22	PLATE	0.000	36.000
14	13	15	24	23	PLATE	0.000	36.000
15	17	18	26	25	PLATE	0.000	36.000
16	18	19	27	26	PLATE	0.000	36.000
17	19	20	28	27	PLATE	0.000	36.000
18	20	21	29	28	PLATE	0.000	36.000
19	21	22	30	29	PLATE	0.000	36.000
20	22	23	31	30	PLATE	0.000	36.000
21	23	24	32	31	PLATE	0.000	36.000
22	25	26	34	33	PLATE	0.000	36.000
23	26	27	35	34	PLATE	0.000	36.000
24	27	28	36	35	PLATE	0.000	36.000
25	28	29	37	36	PLATE	0.000	36.000
26	29	30	38	37	PLATE	0.000	36.000
27	30	31	39	38	PLATE	0.000	36.000
28	31	32	40	39	PLATE	0.000	36.000
29	33	34	42	41	PLATE	0.000	36.000
30	34	35	43	42	PLATE	0.000	36.000
31	35	36	44	43	PLATE	0.000	36.000
32	36	37	45	44	PLATE	0.000	36.000
33	37	38	46	45	PLATE	0.000	36.000
34	38	39	47	46	PLATE	0.000	36.000
35	39	40	48	47	PLATE	0.000	36.000
36	41	42	50	49	PLATE	0.000	36.000
37	42	43	51	50	PLATE	0.000	36.000
38	43	44	52	51	PLATE	0.000	36.000
39	44	45	53	52	PLATE	0.000	36.000
40	45	46	54	53	PLATE	0.000	36.000
41	46	47	55	54	PLATE	0.000	36.000
42	47	48	56	55	PLATE	0.000	36.000
43	49	50	58	57	PLATE	0.000	36.000
44	50	51	59	58	PLATE	0.000	36.000
45	51	52	60	59	PLATE	0.000	36.000
46	52	53	61	60	PLATE	0.000	36.000
47	53	54	62	61	PLATE	0.000	36.000
48	54	55	63	62	PLATE	0.000	36.000
49	55	56	64	63	PLATE	0.000	36.000
50	57	58	66	65	PLATE	0.000	36.000
51	58	59	67	66	PLATE	0.000	36.000
52	59	60	68	67	PLATE	0.000	36.000
53	60	61	69	68	PLATE	0.000	36.000
54	61	62	70	69	PLATE	0.000	36.000
55	62	63	71	70	PLATE	0.000	36.000
56	63	64	72	71	PLATE	0.000	36.000

S T A T I C L O A D C A S E S

STATIC CASE	CASE TYPE	SELF WT FACTOR
ACTIVE	OTHER	0.0000
WATER	OTHER	0.0000

M A T E R I A L P R O P E R T Y D A T A

MAT LABEL	MODULUS OF ELASTICITY	POISSON'S RATIO	THERMAL COEFF	WEIGHT PER UNIT VOL	MASS PER UNIT VOL
STEEL	29000.000	0.300	6.500E-06	2.830E-04	7.324E-07
CONC	3600.000	0.200	5.500E-06	8.680E-05	2.246E-07
OTHER	3600.000	0.200	5.500E-06	8.680E-05	2.246E-07

M A T E R I A L D E S I G N D A T A

MAT LABEL	DESIGN CODE	STEEL FY	CONCRETE FC	REBAR FY	CONCRETE FCS	REBAR FYS
STEEL	S	36.000				
CONC	C		4.000	60.000	4.000	40.000
OTHER	N					

F R A M E S E C T I O N P R O P E R T Y D A T A

SECTION LABEL	MAT LABEL	SECTION TYPE	DEPTH	FLANGE WIDTH TOP	FLANGE THICK TOP	WEB THICK	FLANGE WIDTH BOTTOM	FLANGE THICK BOTTOM
FSEC1	STEEL		18.000	10.000	0.000	0.000	0.000	0.000

F R A M E S E C T I O N P R O P E R T Y D A T A

SECTION LABEL	AREA	TORSIONAL INERTIA	MOMENTS OF INERTIA I33	I22	SHEAR AREAS A2	A3
FSEC1	180.000	3916.671	4860.000	1500.000	150.000	150.000

F R A M E S E C T I O N P R O P E R T Y D A T A

SECTION LABEL	SECTION MODULII S33	S22	PLASTIC MODULII Z33	Z22	RADII OF GYRATION R33	R22
FSEC1	540.000	300.000	810.000	450.000	5.196	2.887

F R A M E S E C T I O N P R O P E R T Y D A T A

SECTION LABEL	TOTAL WEIGHT	TOTAL MASS
FSEC1	0.000	0.000

S H E L L S E C T I O N P R O P E R T Y D A T A

SECTION LABEL	MAT LABEL	SHELL TYPE	MEMBRANE THICK	BENDING THICK	MATERIAL ANGLE
SSEC1	CONC	4	1.000	1.000	0.000
PLATE	STEEL	4	7.470E-02	7.470E-02	0.000

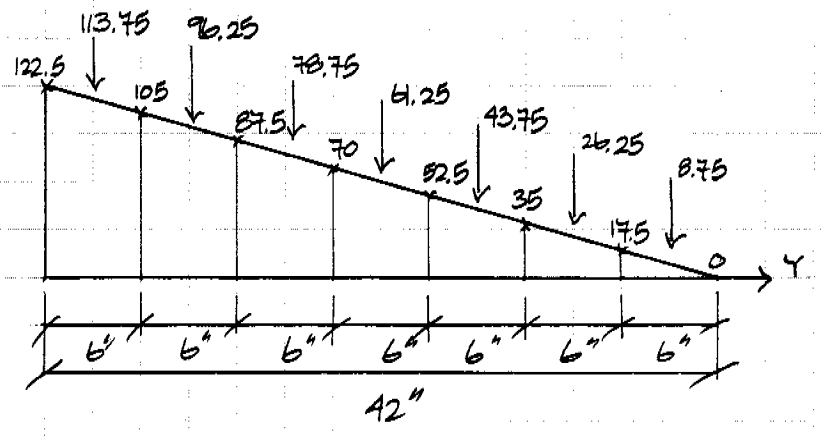
S H E L L S E C T I O N P R O P E R T Y D A T A

SECTION LABEL	TOTAL WEIGHT	TOTAL MASS
SSEC1	0.000	0.000
PLATE	4.262E-02	1.103E-04

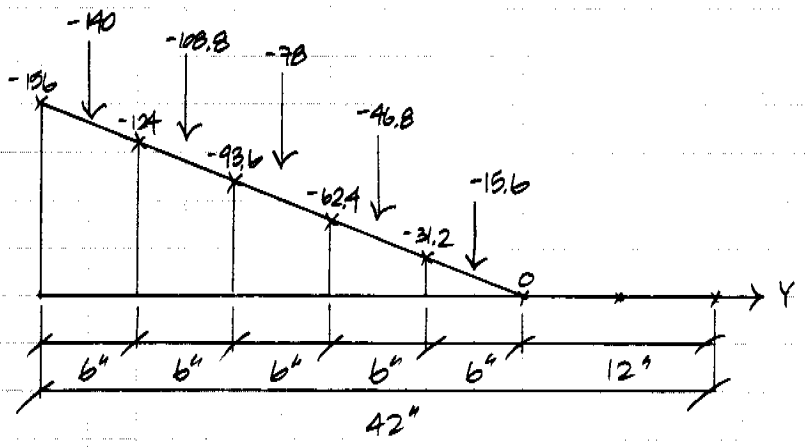
G R O U P M A S S D A T A

GROUP	M-X	M-Y	M-Z
ALL	1.103E-04	1.103E-04	1.103E-04

ACTIVE : $\gamma = 35$ pcf $\quad p = \gamma * h$ (psf)



WATER : $\gamma = 62.4$ pcf $\quad p = \gamma * h$ (psf)



S T A T I C L O A D C A S E S

STATIC CASE	CASE TYPE	SELF WT FACTOR
ACTIVE	OTHER	0.0000
WATER	OTHER	0.0000

S H E L L P R E S S U R E L O A D S Load Case ACTIVE

SHELL	VALUE	PATTERN	MULTIPLIER
7	113.7500		
14	113.7500		
21	113.7500		
28	113.7500		
35	113.7500		
42	113.7500		
49	113.7500		
56	113.7500		
6	96.2500		
13	96.2500		
20	96.2500		
27	96.2500		
34	96.2500		
41	96.2500		
48	96.2500		
55	96.2500		
5	78.7500		
12	78.7500		
19	78.7500		
26	78.7500		
33	78.7500		
40	78.7500		
47	78.7500		
54	78.7500		
4	61.2500		
11	61.2500		
18	61.2500		
25	61.2500		
32	61.2500		
39	61.2500		
46	61.2500		
53	61.2500		
3	43.7500		
10	43.7500		
17	43.7500		
24	43.7500		
31	43.7500		
38	43.7500		
45	43.7500		
52	43.7500		
2	26.2500		
9	26.2500		
16	26.2500		
23	26.2500		
30	26.2500		
37	26.2500		
44	26.2500		
51	26.2500		
1	8.7500		
8	8.7500		
15	8.7500		
22	8.7500		
29	8.7500		
36	8.7500		
43	8.7500		
50	8.7500		

S H E L L P R E S S U R E L O A D S Load Case WATER

10B

SHELL	VALUE	PATTERN	MULTIPLIER
7	-140.0000		
14	-140.0000		
21	-140.0000		
28	-140.0000		
35	-140.0000		
42	-140.0000		
49	-140.0000		
56	-140.0000		
6	-108.8000		
13	-108.8000		
20	-108.8000		
27	-108.8000		
34	-108.8000		
41	-108.8000		
48	-108.8000		
55	-108.8000		
5	-78.0000		
12	-78.0000		
19	-78.0000		
26	-78.0000		
33	-78.0000		
40	-78.0000		
47	-78.0000		
54	-78.0000		
4	-46.8000		
11	-46.8000		
18	-46.8000		
25	-46.8000		
32	-46.8000		
39	-46.8000		
46	-46.8000		
53	-46.8000		
3	-15.6000		
10	-15.6000		
17	-15.6000		
24	-15.6000		
31	-15.6000		
38	-15.6000		
45	-15.6000		
52	-15.6000		

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L O A D C O M B I N A T I O N M U L T I P L I E R S

COMBO	TYPE	CASE	FACTOR	TYPE	TITLE
COMB1	ADD				COMB1
		ACTIVE	1.0000	STATIC(OTHER)	
		WATER	1.0000	STATIC(OTHER)	

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J O I N T D I S P L A C E M E N T S

JOINT	LOAD	U1	U2	U3	R1	R2	R3
1	Minima	0.0000	0.0000	0.0000	-1.247E-04	-8.774E-05	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
1	Maxima	0.0000	0.0000	0.0000	-1.247E-04	-8.774E-05	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
2	Minima	0.0000	0.0000	0.0000	-0.0447	-6.775E-05	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
2	Maxima	0.0000	0.0000	0.0000	-0.0447	-6.775E-05	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
3	Minima	0.0000	0.0000	0.2527	-0.0368	-0.0383	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
3	Maxima	0.0000	0.0000	0.2527	-0.0368	-0.0383	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
4	Minima	0.0000	0.0000	0.0000	-1.222E-04	-0.0440	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
4	Maxima	0.0000	0.0000	0.0000	-1.222E-04	-0.0440	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
5	Minima	0.0000	0.0000	0.4184	-0.0169	-0.0636	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
5	Maxima	0.0000	0.0000	0.4184	-0.0169	-0.0636	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
6	Minima	0.0000	0.0000	0.0000	-2.035E-05	-0.0728	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
6	Maxima	0.0000	0.0000	0.0000	-2.035E-05	-0.0728	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
7	Minima	0.0000	0.0000	0.4511	5.415E-03	-0.0691	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
7	Maxima	0.0000	0.0000	0.4511	5.415E-03	-0.0691	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
8	Minima	0.0000	0.0000	0.0000	7.513E-05	-0.0782	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
8	Maxima	0.0000	0.0000	0.0000	7.513E-05	-0.0782	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
9	Minima	0.0000	0.0000	0.3676	0.0205	-0.0571	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
9	Maxima	0.0000	0.0000	0.3676	0.0205	-0.0571	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
10	Minima	0.0000	0.0000	0.0000	1.060E-04	-0.0633	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
10	Maxima	0.0000	0.0000	0.0000	1.060E-04	-0.0633	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
11	Minima	0.0000	0.0000	0.2268	0.0244	-0.0361	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
11	Maxima	0.0000	0.0000	0.2268	0.0244	-0.0361	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
12	Minima	0.0000	0.0000	0.0000	1.023E-04	-0.0387	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
12	Maxima	0.0000	0.0000	0.0000	1.023E-04	-0.0387	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
13	Minima	0.0000	0.0000	0.0937	0.0187	-0.0156	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
13	Maxima	0.0000	0.0000	0.0937	0.0187	-0.0156	0.0000

		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
14	Minima	0.0000	0.0000	0.0000	-8.914E-06	-0.0156	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
14	Maxima	0.0000	0.0000	0.0000	-8.914E-06	-0.0156	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
15	Minima	0.0000	0.0000	0.0000	0.0141	-1.278E-05	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
15	Maxima	0.0000	0.0000	0.0000	0.0141	-1.278E-05	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1

J O I N T D I S P L A C E M E N T S

JOINT	LOAD	U1	U2	U3	R1	R2	R3
16	Minima	0.0000	0.0000	0.0000	-1.260E-04	-1.176E-05	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
16	Maxima	0.0000	0.0000	0.0000	-1.260E-04	-1.176E-05	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
17	Minima	0.0000	0.0000	0.0000	-0.0789	5.564E-06	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
17	Maxima	0.0000	0.0000	0.0000	-0.0789	5.564E-06	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
18	Minima	0.0000	0.0000	0.4462	-0.0653	-0.0259	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
18	Maxima	0.0000	0.0000	0.4462	-0.0653	-0.0259	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
19	Minima	0.0000	0.0000	0.7416	-0.0308	-0.0435	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
19	Maxima	0.0000	0.0000	0.7416	-0.0308	-0.0435	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
20	Minima	0.0000	0.0000	0.8063	8.285E-03	-0.0484	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
20	Maxima	0.0000	0.0000	0.8063	8.285E-03	-0.0484	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
21	Minima	0.0000	0.0000	0.6663	0.0353	-0.0415	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
21	Maxima	0.0000	0.0000	0.6663	0.0353	-0.0415	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
22	Minima	0.0000	0.0000	0.4219	0.0429	-0.0279	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
22	Maxima	0.0000	0.0000	0.4219	0.0429	-0.0279	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
23	Minima	0.0000	0.0000	0.1829	0.0350	-0.0133	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
23	Maxima	0.0000	0.0000	0.1829	0.0350	-0.0133	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
24	Minima	0.0000	0.0000	0.0000	0.0283	-4.378E-05	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
24	Maxima	0.0000	0.0000	0.0000	0.0283	-4.378E-05	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
25	Minima	0.0000	0.0000	0.0000	-0.0993	3.757E-06	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
25	Maxima	0.0000	0.0000	0.0000	-0.0993	3.757E-06	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
26	Minima	0.0000	0.0000	0.5622	-0.0824	-0.0128	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
26	Maxima	0.0000	0.0000	0.5622	-0.0824	-0.0128	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
27	Minima	0.0000	0.0000	0.9372	-0.0396	-0.0217	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
27	Maxima	0.0000	0.0000	0.9372	-0.0396	-0.0217	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
28	Minima	0.0000	0.0000	1.0254	9.119E-03	-0.0245	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
28	Maxima	0.0000	0.0000	1.0254	9.119E-03	-0.0245	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1

29	Minima	0.0000	0.0000	0.8567	0.0433	-0.0216	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
29	Maxima	0.0000	0.0000	0.8567	0.0433	-0.0216	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
30	Minima	0.0000	0.0000	0.5526	0.0539	-0.0151	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
30	Maxima	0.0000	0.0000	0.5526	0.0539	-0.0151	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1

J O I N T D I S P L A C E M E N T S

JOINT	LOAD	U1	U2	U3	R1	R2	R3
31	Minima	0.0000	0.0000	0.2467	0.0459	-7.486E-03	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
31	Maxima	0.0000	0.0000	0.2467	0.0459	-7.486E-03	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
32	Minima	0.0000	0.0000	0.0000	0.0387	-1.298E-05	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
32	Maxima	0.0000	0.0000	0.0000	0.0387	-1.298E-05	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
33	Minima	0.0000	0.0000	0.0000	-0.1060	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
33	Maxima	0.0000	0.0000	0.0000	-0.1060	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
34	Minima	0.0000	0.0000	0.6004	-0.0881	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
34	Maxima	0.0000	0.0000	0.6004	-0.0881	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
35	Minima	0.0000	0.0000	1.0021	-0.0426	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
35	Maxima	0.0000	0.0000	1.0021	-0.0426	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
36	Minima	0.0000	0.0000	1.0989	9.233E-03	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
36	Maxima	0.0000	0.0000	1.0989	9.233E-03	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
37	Minima	0.0000	0.0000	0.9217	0.0459	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
37	Maxima	0.0000	0.0000	0.9217	0.0459	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
38	Minima	0.0000	0.0000	0.5984	0.0576	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
38	Maxima	0.0000	0.0000	0.5984	0.0576	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
39	Minima	0.0000	0.0000	0.2696	0.0498	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
39	Maxima	0.0000	0.0000	0.2696	0.0498	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
40	Minima	0.0000	0.0000	0.0000	0.0425	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
40	Maxima	0.0000	0.0000	0.0000	0.0425	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
41	Minima	0.0000	0.0000	0.0000	-0.0993	-3.757E-06	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
41	Maxima	0.0000	0.0000	0.0000	-0.0993	-3.757E-06	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
42	Minima	0.0000	0.0000	0.5622	-0.0824	0.0128	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
42	Maxima	0.0000	0.0000	0.5622	-0.0824	0.0128	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
43	Minima	0.0000	0.0000	0.9372	-0.0396	0.0217	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
43	Maxima	0.0000	0.0000	0.9372	-0.0396	0.0217	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
44	Minima	0.0000	0.0000	1.0254	9.119E-03	0.0245	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1

J O I N T D I S P L A C E M E N T S

JOINT	LOAD	U1	U2	U3	R1	R2	R3
44	Minima	0.0000	0.0000	1.0254	9.119E-03	0.0245	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
44	Maxima	0.0000	0.0000	1.0254	9.119E-03	0.0245	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
45	Minima	0.0000	0.0000	0.8567	0.0433	0.0216	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
45	Maxima	0.0000	0.0000	0.8567	0.0433	0.0216	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
46	Minima	0.0000	0.0000	0.5526	0.0539	0.0151	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
46	Maxima	0.0000	0.0000	0.5526	0.0539	0.0151	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
47	Minima	0.0000	0.0000	0.2467	0.0459	7.486E-03	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
47	Maxima	0.0000	0.0000	0.2467	0.0459	7.486E-03	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
48	Minima	0.0000	0.0000	0.0000	0.0387	1.298E-05	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
48	Maxima	0.0000	0.0000	0.0000	0.0387	1.298E-05	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
49	Minima	0.0000	0.0000	0.0000	-0.0789	-5.564E-06	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
49	Maxima	0.0000	0.0000	0.0000	-0.0789	-5.564E-06	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
50	Minima	0.0000	0.0000	0.4462	-0.0653	0.0259	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
50	Maxima	0.0000	0.0000	0.4462	-0.0653	0.0259	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
51	Minima	0.0000	0.0000	0.7416	-0.0308	0.0435	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
51	Maxima	0.0000	0.0000	0.7416	-0.0308	0.0435	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
52	Minima	0.0000	0.0000	0.8063	8.285E-03	0.0484	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
52	Maxima	0.0000	0.0000	0.8063	8.285E-03	0.0484	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
53	Minima	0.0000	0.0000	0.6663	0.0353	0.0415	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
53	Maxima	0.0000	0.0000	0.6663	0.0353	0.0415	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
54	Minima	0.0000	0.0000	0.4219	0.0429	0.0279	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
54	Maxima	0.0000	0.0000	0.4219	0.0429	0.0279	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
55	Minima	0.0000	0.0000	0.1829	0.0350	0.0133	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
55	Maxima	0.0000	0.0000	0.1829	0.0350	0.0133	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
56	Minima	0.0000	0.0000	0.0000	0.0283	4.378E-05	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
56	Maxima	0.0000	0.0000	0.0000	0.0283	4.378E-05	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
57	Minima	0.0000	0.0000	0.0000	-0.0447	6.775E-05	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
57	Maxima	0.0000	0.0000	0.0000	-0.0447	6.775E-05	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
58	Minima	0.0000	0.0000	0.2527	-0.0368	0.0383	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
58	Maxima	0.0000	0.0000	0.2527	-0.0368	0.0383	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
59	Minima	0.0000	0.0000	0.4184	-0.0169	0.0636	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
59	Maxima	0.0000	0.0000	0.4184	-0.0169	0.0636	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1

60	Minima	0.0000	0.0000	0.4511	5.415E-03	0.0691	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
60	Maxima	0.0000	0.0000	0.4511	5.415E-03	0.0691	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1

J O I N T D I S P L A C E M E N T S

JOINT	LOAD	U1	U2	U3	R1	R2	R3
61	Minima	0.0000	0.0000	0.3676	0.0205	0.0571	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
61	Maxima	0.0000	0.0000	0.3676	0.0205	0.0571	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
62	Minima	0.0000	0.0000	0.2268	0.0244	0.0361	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
62	Maxima	0.0000	0.0000	0.2268	0.0244	0.0361	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
63	Minima	0.0000	0.0000	0.0937	0.0187	0.0156	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
63	Maxima	0.0000	0.0000	0.0937	0.0187	0.0156	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
64	Minima	0.0000	0.0000	0.0000	0.0141	1.278E-05	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
64	Maxima	0.0000	0.0000	0.0000	0.0141	1.278E-05	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
65	Minima	0.0000	0.0000	0.0000	-1.247E-04	8.774E-05	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
65	Maxima	0.0000	0.0000	0.0000	-1.247E-04	8.774E-05	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
66	Minima	0.0000	0.0000	0.0000	-1.222E-04	0.0440	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
66	Maxima	0.0000	0.0000	0.0000	-1.222E-04	0.0440	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
67	Minima	0.0000	0.0000	0.0000	-2.035E-05	0.0728	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
67	Maxima	0.0000	0.0000	0.0000	-2.035E-05	0.0728	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
68	Minima	0.0000	0.0000	0.0000	7.513E-05	0.0782	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
68	Maxima	0.0000	0.0000	0.0000	7.513E-05	0.0782	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
69	Minima	0.0000	0.0000	0.0000	1.060E-04	0.0633	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
69	Maxima	0.0000	0.0000	0.0000	1.060E-04	0.0633	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
70	Minima	0.0000	0.0000	0.0000	1.023E-04	0.0387	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
70	Maxima	0.0000	0.0000	0.0000	1.023E-04	0.0387	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
71	Minima	0.0000	0.0000	0.0000	-8.914E-06	0.0156	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
71	Maxima	0.0000	0.0000	0.0000	-8.914E-06	0.0156	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
72	Minima	0.0000	0.0000	0.0000	-1.260E-04	1.176E-05	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
72	Maxima	0.0000	0.0000	0.0000	-1.260E-04	1.176E-05	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1

S H E L L E L E M E N T S T R E S S E S

SHELL	LOAD	JOINT	S11-BOT	S22-BOT	S12-BOT	S11-TOP	S22-TOP	S12-TOP	S13-AVG	S23-AVG

16B

1	Minima	-3.26	-3.86	-6.32	-1.047E-01	-1.584E-01	5.38	6.215E-04	-8.999E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
1	Maxima	1.047E-01	1.584E-01	-5.38	3.26	3.86	6.32	8.065E-03	-1.258E-04
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
2	Minima	-5.09	-5.91	-4.64	-3.528E-02	-6.941E-02	3.03	9.574E-03	-4.920E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
2	Maxima	3.528E-02	6.941E-02	-3.03	5.09	5.91	4.64	1.348E-02	-1.570E-04
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
3	Minima	-5.08	-5.89	-1.53	-1.998E-02	-1.843E-02	-1.725E-02	1.325E-02	-1.226E-04
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
3	Maxima	1.998E-02	1.843E-02	1.725E-02	5.08	5.89	1.53	1.380E-02	1.526E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
4	Minima	-4.86	-5.22	1.31	-4.893E-02	-1.072E-01	-2.56	8.452E-03	-5.300E-05
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
4	Maxima	4.893E-02	1.072E-01	2.56	4.86	5.22	-1.31	1.235E-02	5.796E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
5	Minima	-3.08	-2.70	3.00	-4.222E-02	-1.353E-01	-3.52	2.300E-03	9.663E-06
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
5	Maxima	4.222E-02	1.353E-01	3.52	3.08	2.70	-3.00	7.029E-03	6.422E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
6	Minima	-9.100E-01	-3.855E-02	2.80	-5.695E-01	-1.87	-3.36	-2.031E-03	1.330E-04
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
6	Maxima	5.695E-01	1.87	3.36	9.100E-01	3.855E-02	-2.80	1.129E-03	4.128E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
7	Minima	-3.396E-02	-6.211E-02	2.01	-5.732E-01	-1.88	-2.33	-1.908E-03	-3.988E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
7	Maxima	5.732E-01	1.88	2.33	3.396E-02	6.211E-02	-2.01	-6.153E-04	3.374E-04
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
8	Minima	-4.27	-6.21	-5.11	-2.377E-02	-3.827E-02	3.85	7.098E-04	-1.467E-02
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
8	Maxima	2.377E-02	3.827E-02	-3.85	4.27	6.21	5.11	3.038E-03	-9.828E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
9	Minima	-6.82	-9.59	-3.78	3.18	3.76	2.23	4.365E-03	-8.146E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
9	Maxima	-3.18	-3.76	-2.23	6.82	9.59	3.78	5.736E-03	-5.564E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
10	Minima	-6.82	-9.59	-1.34	4.82	5.15	1.368E-01	6.043E-03	1.426E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
10	Maxima	-4.82	-5.15	-1.368E-01	6.82	9.59	1.34	6.511E-03	1.971E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
11	Minima	-6.80	-8.60	7.156E-01	3.05	2.62	-1.90	5.247E-03	6.127E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
11	Maxima	-3.05	-2.62	1.90	6.80	8.60	-7.156E-01	5.780E-03	9.020E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
12	Minima	-4.75	-4.61	2.01	8.939E-01	-1.331E-01	-2.79	2.970E-03	6.953E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
12	Maxima	-8.939E-01	1.331E-01	2.79	4.75	4.61	-2.01	4.035E-03	1.028E-02
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
13	Minima	-2.06	-1.774E-01	2.17	-5.736E-01	-2.37	-2.73	1.137E-03	4.608E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
13	Maxima	5.736E-01	2.37	2.73	2.06	1.774E-01	-2.17	2.048E-03	6.137E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
14	Minima	-1.328E-01	-5.490E-02	1.91	-5.773E-01	-2.38	-2.22	-4.669E-04	-4.572E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
14	Maxima	5.773E-01	2.38	2.22	1.328E-01	5.490E-02	-1.91	1.175E-03	-3.683E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
15	Minima	-4.58	-7.49	-3.25	-7.213E-03	-1.415E-02	2.11	4.881E-04	-1.747E-02
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
15	Maxima	7.213E-03	1.415E-02	-2.11	4.58	7.49	3.25	1.126E-03	-1.478E-02
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1

S H E L L E L E M E N T S T R E S S E S

SHELL	LOAD	JOINT	S11-BOT	S22-BOT	S12-BOT	S11-TOP	S22-TOP	S12-TOP	S13-AVG	S23-AVG
16	Minima		-7.41	-11.59	-2.43	4.26	6.20	1.25	1.838E-03	-9.810E-03

		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
16	Maxima	-4.26	-6.20	-1.25	7.41	11.59	2.43	2.411E-03	-8.295E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
17	Minima	-7.56	-11.58	-9.514E-01	6.79	8.59	1.388E-01	2.602E-03	1.775E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
17	Maxima	-6.79	-8.59	-1.388E-01	7.56	11.58	9.514E-01	2.973E-03	1.973E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
18	Minima	-7.56	-10.50	2.769E-01	4.75	4.61	-1.05	2.629E-03	8.853E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
18	Maxima	-4.75	-4.61	1.05	7.56	10.50	-2.769E-01	2.748E-03	1.036E-02
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
19	Minima	-5.57	-5.81	1.03	2.06	1.743E-01	-1.73	1.951E-03	1.023E-02
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
19	Maxima	-2.06	-1.743E-01	1.73	5.57	5.81	-1.03	2.147E-03	1.197E-02
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
20	Minima	-2.80	-5.460E-01	1.30	9.438E-02	-2.43	-1.80	9.640E-04	6.330E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
20	Maxima	-9.438E-02	2.43	1.80	2.80	5.460E-01	-1.30	1.512E-03	7.188E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
21	Minima	-5.665E-01	-1.307E-02	1.26	-2.658E-02	-2.43	-1.69	-2.106E-04	-4.195E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
21	Maxima	2.658E-02	2.43	1.69	5.665E-01	1.307E-02	-1.26	9.093E-04	-4.148E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
22	Minima	-4.65	-7.89	-1.37	-7.694E-03	-1.660E-02	4.044E-01	1.632E-04	-1.823E-02
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
22	Maxima	7.694E-03	1.660E-02	-4.044E-01	4.65	7.89	1.37	2.823E-04	-1.743E-02
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
23	Minima	-7.55	-12.21	-1.02	4.58	7.47	2.161E-01	5.208E-04	-1.029E-02
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
23	Maxima	-4.58	-7.47	-2.161E-01	7.55	12.21	1.02	6.633E-04	-9.831E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
24	Minima	-7.76	-12.21	-4.056E-01	7.42	10.49	-6.796E-03	7.315E-04	1.864E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
24	Maxima	-7.42	-10.49	6.796E-03	7.76	12.21	4.056E-01	8.666E-04	1.896E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
25	Minima	-7.76	-11.11	1.131E-02	5.56	5.78	-3.830E-01	7.597E-04	1.022E-02
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
25	Maxima	-5.56	-5.78	3.830E-01	7.76	11.11	-1.131E-02	8.556E-04	1.063E-02
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
26	Minima	-5.81	-6.20	1.811E-01	2.79	5.289E-01	-7.102E-01	6.500E-04	1.188E-02
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
26	Maxima	-2.79	-5.289E-01	7.102E-01	5.81	6.20	-1.811E-01	6.665E-04	1.236E-02
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
27	Minima	-3.02	-7.000E-01	2.600E-01	5.483E-01	-2.44	-7.992E-01	3.399E-04	7.278E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
27	Maxima	-5.483E-01	2.44	7.992E-01	3.02	7.000E-01	-2.600E-01	5.060E-04	7.553E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
28	Minima	-7.010E-01	-6.730E-03	2.673E-01	-5.347E-03	-2.43	-7.908E-01	-4.441E-05	-3.989E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
28	Maxima	5.347E-03	2.43	7.908E-01	7.010E-01	6.730E-03	-2.673E-01	3.066E-04	-3.918E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
29	Minima	-4.65	-7.89	4.044E-01	-7.694E-03	-1.660E-02	-1.37	-2.823E-04	-1.823E-02
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
29	Maxima	7.694E-03	1.660E-02	1.37	4.65	7.89	-4.044E-01	-1.632E-04	-1.743E-02
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
30	Minima	-7.55	-12.21	2.161E-01	4.58	7.47	-1.02	-6.633E-04	-1.029E-02
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
30	Maxima	-4.58	-7.47	1.02	7.55	12.21	-2.161E-01	-5.208E-04	-9.831E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1

S H E L L E L E M E N T S T R E S S E S

SHELL	LOAD	JOINT	S11-BOT	S22-BOT	S12-BOT	S11-TOP	S22-TOP	S12-TOP	S13-AVG	S23-AVG
31	Minima		-7.76	-12.21	-6.796E-03	7.42	10.49	-4.056E-01	-8.666E-04	1.864E-03
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
31	Maxima		-7.42	-10.49	4.056E-01	7.76	12.21	6.796E-03	-7.315E-04	1.896E-03

		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
32	Minima	-7.76	-11.11	-3.830E-01	5.56	5.78	1.131E-02	-8.556E-04	1.022E-02
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
32	Maxima	-5.56	-5.78	-1.131E-02	7.76	11.11	3.830E-01	-7.597E-04	1.063E-02
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
33	Minima	-5.81	-6.20	-7.102E-01	2.79	5.289E-01	1.811E-01	-6.665E-04	1.188E-02
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
33	Maxima	-2.79	-5.289E-01	-1.811E-01	5.81	6.20	7.102E-01	-6.500E-04	1.236E-02
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
34	Minima	-3.02	-7.000E-01	-7.992E-01	5.483E-01	-2.44	2.600E-01	-5.060E-04	7.278E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
34	Maxima	-5.483E-01	2.44	-2.600E-01	3.02	7.000E-01	7.992E-01	-3.399E-04	7.553E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
35	Minima	-7.010E-01	-6.730E-03	-7.908E-01	-5.347E-03	-2.43	2.673E-01	-3.066E-04	-3.989E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
35	Maxima	5.347E-03	2.43	-2.673E-01	7.010E-01	6.730E-03	7.908E-01	4.441E-05	-3.918E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
36	Minima	-4.58	-7.49	2.11	-7.213E-03	-1.415E-02	-3.25	-1.126E-03	-1.747E-02
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
36	Maxima	7.213E-03	1.415E-02	3.25	4.58	7.49	-2.11	-4.881E-04	-1.478E-02
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
37	Minima	-7.41	-11.59	1.25	4.26	6.20	-2.43	-2.411E-03	-9.810E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
37	Maxima	-4.26	-6.20	2.43	7.41	11.59	-1.25	-1.838E-03	-8.295E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
38	Minima	-7.56	-11.58	1.388E-01	6.79	8.59	-9.514E-01	-2.973E-03	1.775E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
38	Maxima	-6.79	-8.59	9.514E-01	7.56	11.58	-1.388E-01	-2.602E-03	1.973E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
39	Minima	-7.56	-10.50	-1.05	4.75	4.61	2.769E-01	-2.748E-03	8.853E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
39	Maxima	-4.75	-4.61	-2.769E-01	7.56	10.50	1.05	-2.629E-03	1.036E-02
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
40	Minima	-5.57	-5.81	-1.73	2.06	1.743E-01	1.03	-2.147E-03	1.023E-02
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
40	Maxima	-2.06	-1.743E-01	-1.03	5.57	5.81	1.73	-1.951E-03	1.197E-02
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
41	Minima	-2.80	-5.460E-01	-1.80	9.438E-02	-2.43	1.30	-1.512E-03	6.330E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
41	Maxima	-9.438E-02	2.43	-1.30	2.80	5.460E-01	1.80	-9.640E-04	7.188E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
42	Minima	-5.665E-01	-1.307E-02	-1.69	-2.658E-02	-2.43	1.26	-9.093E-04	-4.195E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
42	Maxima	2.658E-02	2.43	-1.26	5.665E-01	1.307E-02	1.69	2.106E-04	-4.148E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
43	Minima	-4.27	-6.21	3.85	-2.377E-02	-3.827E-02	-5.11	-3.038E-03	-1.467E-02
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
43	Maxima	2.377E-02	3.827E-02	5.11	4.27	6.21	-3.85	-7.098E-04	-9.828E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
44	Minima	-6.82	-9.59	2.23	3.18	3.76	-3.78	-5.736E-03	-8.146E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
44	Maxima	-3.18	-3.76	3.78	6.82	9.59	-2.23	-4.365E-03	-5.564E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
45	Minima	-6.82	-9.59	1.368E-01	4.82	5.15	-1.34	-6.511E-03	1.426E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
45	Maxima	-4.82	-5.15	1.34	6.82	9.59	-1.368E-01	-6.043E-03	1.971E-03
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1

S H E L L E L E M E N T S T R E S S E S

SHELL	LOAD	JOINT	S11-BOT	S22-BOT	S12-BOT	S11-TOP	S22-TOP	S12-TOP	S13-AVG	S23-AVG
46	Minima		-6.80	-8.60	-1.90	3.05	2.62	7.156E-01	-5.780E-03	6.127E-03
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
46	Maxima		-3.05	-2.62	-7.156E-01	6.80	8.60	1.90	-5.247E-03	9.020E-03
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1

47	Minima	-4.75	-4.61	-2.79	8.939E-01	-1.331E-01	2.01	-4.035E-03	6.953E-03	
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	
47	Maxima	-8.939E-01	1.331E-01	-2.01	4.75	4.61	2.79	-2.970E-03	1.028E-02	
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	
48	Minima	-2.06	-1.774E-01	-2.73	-5.736E-01	-2.37	2.17	-2.048E-03	4.608E-03	
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	
48	Maxima	5.736E-01	2.37	-2.17	2.06	1.774E-01	2.73	-1.137E-03	6.137E-03	
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	
49	Minima	-1.328E-01	-5.490E-02	-2.22	-5.773E-01	-2.38	1.91	-1.175E-03	-4.572E-03	
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	
49	Maxima	5.773E-01	2.38	-1.91	1.328E-01	5.490E-02	2.22	4.669E-04	-3.683E-03	
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	
50	Minima	-3.26	-3.86	5.38	-1.047E-01	-1.584E-01	-6.32	-8.065E-03	-8.999E-03	
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	
50	Maxima	1.047E-01	1.584E-01	6.32	3.26	3.86	-5.38	-6.215E-04	-1.258E-04	
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	
51	Minima	-5.09	-5.91	3.03	-3.528E-02	-6.941E-02	-4.64	-1.348E-02	-4.920E-03	
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	
51	Maxima	3.528E-02	6.941E-02	4.64	5.09	5.91	-3.03	-9.574E-03	-1.570E-04	
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	
52	Minima	-5.08	-5.89	-1.725E-02	-1.998E-02	-1.843E-02	-1.53	-1.380E-02	-1.226E-04	
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	
52	Maxima	1.998E-02	1.843E-02	1.53	5.08	5.89	1.725E-02	-1.325E-02	1.526E-03	
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	
53	Minima	-4.86	-5.22	-2.56	-4.893E-02	-1.072E-01	1.31	-1.235E-02	-5.300E-05	
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	
53	Maxima	4.893E-02	1.072E-01	-1.31	4.86	5.22	2.56	-8.452E-03	5.796E-03	
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	
54	Minima	-3.08	-2.70	-3.52	-4.222E-02	-1.353E-01	3.00	-7.029E-03	9.663E-06	
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	
54	Maxima	4.222E-02	1.353E-01	-3.00	3.08	2.70	3.52	-2.300E-03	6.422E-03	
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	
55	Minima	-9.100E-01	-3.855E-02	-3.36	-5.695E-01	-1.87	2.80	-1.129E-03	1.330E-04	
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	
55	Maxima	5.695E-01	1.87	-2.80	9.100E-01	3.855E-02	3.36	2.031E-03	4.128E-03	
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	
56	Minima	-3.396E-02	-6.211E-02	-2.33	-5.732E-01	-1.88	2.01	6.153E-04	-3.988E-03	
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	
56	Maxima	5.732E-01	1.88	-2.01	3.396E-02	6.211E-02	2.33	1.908E-03	3.374E-04	
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	

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L O A D C O M B I N A T I O N M U L T I P L I E R S

COMBO	TYPE	CASE	FACTOR	TYPE	TITLE
COMB1	ADD				COMB1
		ACTIVE	1.0000	STATIC(OTHER)	
		WATER	1.0000	STATIC(OTHER)	

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J O I N T R E A C T I O N S

JOINT	LOAD	F1	F2	F3	M1	M2	M3
1	Minima	0.0000	0.0000	9.3816	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
1	Maxima	0.0000	0.0000	9.3816	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
2	Minima	0.0000	0.0000	-6.6817	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
2	Maxima	0.0000	0.0000	-6.6817	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
4	Minima	0.0000	0.0000	-8.5017	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
4	Maxima	0.0000	0.0000	-8.5017	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
6	Minima	0.0000	0.0000	-13.1721	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
6	Maxima	0.0000	0.0000	-13.1721	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
8	Minima	0.0000	0.0000	-11.7103	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
8	Maxima	0.0000	0.0000	-11.7103	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
10	Minima	0.0000	0.0000	-6.1804	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
10	Maxima	0.0000	0.0000	-6.1804	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
12	Minima	0.0000	0.0000	0.0103	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
12	Maxima	0.0000	0.0000	0.0103	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
14	Minima	0.0000	0.0000	3.8522	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
14	Maxima	0.0000	0.0000	3.8522	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
15	Minima	0.0000	0.0000	4.4504	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
15	Maxima	0.0000	0.0000	4.4504	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
16	Minima	0.0000	0.0000	6.0133	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
16	Maxima	0.0000	0.0000	6.0133	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
17	Minima	0.0000	0.0000	-9.9573	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
17	Maxima	0.0000	0.0000	-9.9573	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
24	Minima	0.0000	0.0000	4.3720	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
24	Maxima	0.0000	0.0000	4.3720	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
25	Minima	0.0000	0.0000	-11.2414	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
25	Maxima	0.0000	0.0000	-11.2414	0.0000	0.0000	0.0000

		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
32	Minima	0.0000	0.0000	3.8088	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
32	Maxima	0.0000	0.0000	3.8088	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
33	Minima	0.0000	0.0000	-11.5869	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
33	Maxima	0.0000	0.0000	-11.5869	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1

J O I N T R E A C T I O N S

JOINT	LOAD	F1	F2	F3	M1	M2	M3
40	Minima	0.0000	0.0000	3.5992	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
40	Maxima	0.0000	0.0000	3.5992	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
41	Minima	0.0000	0.0000	-11.2414	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
41	Maxima	0.0000	0.0000	-11.2414	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
48	Minima	0.0000	0.0000	3.8088	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
48	Maxima	0.0000	0.0000	3.8088	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
49	Minima	0.0000	0.0000	-9.9573	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
49	Maxima	0.0000	0.0000	-9.9573	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
56	Minima	0.0000	0.0000	4.3720	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
56	Maxima	0.0000	0.0000	4.3720	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
57	Minima	0.0000	0.0000	-6.6817	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
57	Maxima	0.0000	0.0000	-6.6817	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
64	Minima	0.0000	0.0000	4.4504	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
64	Maxima	0.0000	0.0000	4.4504	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
65	Minima	0.0000	0.0000	9.3816	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
65	Maxima	0.0000	0.0000	9.3816	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
66	Minima	0.0000	0.0000	-8.5017	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
66	Maxima	0.0000	0.0000	-8.5017	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
67	Minima	0.0000	0.0000	-13.1721	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
67	Maxima	0.0000	0.0000	-13.1721	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
68	Minima	0.0000	0.0000	-11.7103	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
68	Maxima	0.0000	0.0000	-11.7103	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
69	Minima	0.0000	0.0000	-6.1804	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
69	Maxima	0.0000	0.0000	-6.1804	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
70	Minima	0.0000	0.0000	0.0103	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
70	Maxima	0.0000	0.0000	0.0103	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1

71	Minima	0.0000	0.0000	3.8522	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
71	Maxima	0.0000	0.0000	3.8522	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
72	Minima	0.0000	0.0000	6.0133	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
72	Maxima	0.0000	0.0000	6.0133	0.0000	0.0000	0.0000
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1

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L O A D C O M B I N A T I O N M U L T I P L I E R S

COMBO	TYPE	CASE	FACTOR	TYPE	TITLE
COMB1	ADD				COMB1
		ACTIVE	1.0000	STATIC(OTHER)	
		WATER	1.0000	STATIC(OTHER)	

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S H E L L E L E M E N T R E S U L T A N T S

SHELL	LOAD	JOINT	F11	F22	F12	M11	M22	M12	V13	V23
1	Minima		0.00	0.00	0.00	-3.03	-3.59	-5.88	4.643E-02	-6.722E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
1	Maxima		0.00	0.00	0.00	9.737E-02	1.473E-01	-5.00	6.025E-01	-9.399E-03
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
2	Minima		0.00	0.00	0.00	-4.73	-5.49	-4.32	7.152E-01	-3.675E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
2	Maxima		0.00	0.00	0.00	3.281E-02	6.455E-02	-2.82	1.01	-1.173E-02
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
3	Minima		0.00	0.00	0.00	-4.73	-5.48	-1.43	9.901E-01	-9.159E-03
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
3	Maxima		0.00	0.00	0.00	1.858E-02	1.714E-02	1.604E-02	1.03	1.140E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
4	Minima		0.00	0.00	0.00	-4.52	-4.85	1.22	6.313E-01	-3.959E-03
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
4	Maxima		0.00	0.00	0.00	4.551E-02	9.970E-02	2.38	9.228E-01	4.330E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
5	Minima		0.00	0.00	0.00	-2.86	-2.51	2.79	1.718E-01	7.219E-04
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
5	Maxima		0.00	0.00	0.00	3.926E-02	1.258E-01	3.27	5.251E-01	4.797E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
6	Minima		0.00	0.00	0.00	-8.463E-01	-3.586E-02	2.60	-1.517E-01	9.934E-03
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
6	Maxima		0.00	0.00	0.00	5.297E-01	1.74	3.13	8.434E-02	3.084E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
7	Minima		0.00	0.00	0.00	-3.158E-02	-5.777E-02	1.87	-1.425E-01	-2.979E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
7	Maxima		0.00	0.00	0.00	5.331E-01	1.75	2.16	-4.596E-02	2.521E-02
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
8	Minima		0.00	0.00	0.00	-3.97	-5.77	-4.75	5.302E-02	-1.10
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
8	Maxima		0.00	0.00	0.00	2.211E-02	3.559E-02	-3.58	2.269E-01	-7.341E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
9	Minima		0.00	0.00	0.00	-6.35	-8.92	-3.51	3.261E-01	-6.085E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
9	Maxima		0.00	0.00	0.00	-2.96	-3.49	-2.07	4.285E-01	-4.157E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
10	Minima		0.00	0.00	0.00	-6.35	-8.92	-1.25	4.514E-01	1.065E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
10	Maxima		0.00	0.00	0.00	-4.48	-4.79	-1.272E-01	4.863E-01	1.472E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
11	Minima		0.00	0.00	0.00	-6.32	-8.00	6.655E-01	3.919E-01	4.577E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
11	Maxima		0.00	0.00	0.00	-2.83	-2.43	1.76	4.318E-01	6.738E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
12	Minima		0.00	0.00	0.00	-4.42	-4.29	1.87	2.219E-01	5.194E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
12	Maxima		0.00	0.00	0.00	-8.313E-01	1.238E-01	2.59	3.014E-01	7.682E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
13	Minima		0.00	0.00	0.00	-1.92	-1.649E-01	2.02	8.496E-02	3.442E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
13	Maxima		0.00	0.00	0.00	5.335E-01	2.21	2.54	1.530E-01	4.584E-01

		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
14	Minima	0.00	0.00	0.00	-1.235E-01	-5.105E-02	1.78	-3.488E-02	-3.416E-01
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
14	Maxima	0.00	0.00	0.00	5.369E-01	2.21	2.06	8.774E-02	-2.751E-01
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
15	Minima	0.00	0.00	0.00	-4.26	-6.97	-3.03	3.646E-02	-1.30
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
15	Maxima	0.00	0.00	0.00	6.708E-03	1.316E-02	-1.97	8.410E-02	-1.10
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1

S H E L L E L E M E N T R E S U L T A N T S

SHELL	LOAD	JOINT	F11	F22	F12	M11	M22	M12	V13	V23
16	Minima		0.00	0.00	0.00	-6.90	-10.78	-2.26	1.373E-01	-7.328E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
16	Maxima		0.00	0.00	0.00	-3.97	-5.77	-1.16	1.801E-01	-6.196E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
17	Minima		0.00	0.00	0.00	-7.03	-10.77	-8.848E-01	1.943E-01	1.326E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
17	Maxima		0.00	0.00	0.00	-6.32	-7.99	-1.291E-01	2.221E-01	1.474E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
18	Minima		0.00	0.00	0.00	-7.03	-9.77	2.575E-01	1.964E-01	6.613E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
18	Maxima		0.00	0.00	0.00	-4.41	-4.28	9.805E-01	2.053E-01	7.739E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
19	Minima		0.00	0.00	0.00	-5.18	-5.40	9.584E-01	1.458E-01	7.640E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
19	Maxima		0.00	0.00	0.00	-1.92	-1.621E-01	1.61	1.604E-01	8.940E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
20	Minima		0.00	0.00	0.00	-2.60	-5.078E-01	1.21	7.201E-02	4.728E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
20	Maxima		0.00	0.00	0.00	-8.778E-02	2.26	1.67	1.130E-01	5.369E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
21	Minima		0.00	0.00	0.00	-5.269E-01	-1.215E-02	1.17	-1.573E-02	-3.134E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
21	Maxima		0.00	0.00	0.00	2.472E-02	2.26	1.58	6.792E-02	-3.098E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
22	Minima		0.00	0.00	0.00	-4.32	-7.33	-1.27	1.219E-02	-1.36
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
22	Maxima		0.00	0.00	0.00	7.156E-03	1.544E-02	-3.761E-01	2.109E-02	-1.30
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
23	Minima		0.00	0.00	0.00	-7.02	-11.36	-9.466E-01	3.890E-02	-7.688E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
23	Maxima		0.00	0.00	0.00	-4.26	-6.95	-2.009E-01	4.955E-02	-7.344E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
24	Minima		0.00	0.00	0.00	-7.22	-11.35	-3.772E-01	5.464E-02	1.393E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
24	Maxima		0.00	0.00	0.00	-6.90	-9.76	6.320E-03	6.474E-02	1.417E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
25	Minima		0.00	0.00	0.00	-7.22	-10.33	1.052E-02	5.675E-02	7.631E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
25	Maxima		0.00	0.00	0.00	-5.17	-5.38	3.562E-01	6.392E-02	7.937E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
26	Minima		0.00	0.00	0.00	-5.41	-5.77	1.684E-01	4.855E-02	8.877E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
26	Maxima		0.00	0.00	0.00	-2.59	-4.918E-01	6.605E-01	4.979E-02	9.236E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
27	Minima		0.00	0.00	0.00	-2.81	-6.510E-01	2.418E-01	2.539E-02	5.436E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
27	Maxima		0.00	0.00	0.00	-5.099E-01	2.27	7.432E-01	3.780E-02	5.642E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
28	Minima		0.00	0.00	0.00	-6.520E-01	-6.259E-03	2.486E-01	-3.317E-03	-2.980E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
28	Maxima		0.00	0.00	0.00	4.972E-03	2.26	7.355E-01	2.290E-02	-2.927E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1

29	Minima	0.00	0.00	0.00	-4.32	-7.33	3.761E-01	-2.109E-02	-1.36
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
29	Maxima	0.00	0.00	0.00	7.156E-03	1.544E-02	1.27	-1.219E-02	-1.30
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
30	Minima	0.00	0.00	0.00	-7.02	-11.36	2.009E-01	-4.955E-02	-7.688E-01
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
30	Maxima	0.00	0.00	0.00	-4.26	-6.95	9.466E-01	-3.890E-02	-7.344E-01
		COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1

S H E L L E L E M E N T R E S U L T A N T S

SHELL	LOAD	JOINT	F11	F22	F12	M11	M22	M12	V13	V23
31	Minima		0.00	0.00	0.00	-7.22	-11.35	-6.320E-03	-6.474E-02	1.393E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
31	Maxima		0.00	0.00	0.00	-6.90	-9.76	3.772E-01	-5.464E-02	1.417E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
32	Minima		0.00	0.00	0.00	-7.22	-10.33	-3.562E-01	-6.392E-02	7.631E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
32	Maxima		0.00	0.00	0.00	-5.17	-5.38	-1.052E-02	-5.675E-02	7.937E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
33	Minima		0.00	0.00	0.00	-5.41	-5.77	-6.605E-01	-4.979E-02	8.877E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
33	Maxima		0.00	0.00	0.00	-2.59	-4.918E-01	-1.684E-01	-4.855E-02	9.236E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
34	Minima		0.00	0.00	0.00	-2.81	-6.510E-01	-7.432E-01	-3.780E-02	5.436E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
34	Maxima		0.00	0.00	0.00	-5.099E-01	2.27	-2.418E-01	-2.539E-02	5.642E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
35	Minima		0.00	0.00	0.00	-6.520E-01	-6.259E-03	-7.355E-01	-2.290E-02	-2.980E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
35	Maxima		0.00	0.00	0.00	4.972E-03	2.26	-2.486E-01	3.317E-03	-2.927E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
36	Minima		0.00	0.00	0.00	-4.26	-6.97	1.97	-8.410E-02	-1.30
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
36	Maxima		0.00	0.00	0.00	6.708E-03	1.316E-02	3.03	-3.646E-02	-1.10
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
37	Minima		0.00	0.00	0.00	-6.90	-10.78	1.16	-1.801E-01	-7.328E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
37	Maxima		0.00	0.00	0.00	-3.97	-5.77	2.26	-1.373E-01	-6.196E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
38	Minima		0.00	0.00	0.00	-7.03	-10.77	1.291E-01	-2.221E-01	1.326E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
38	Maxima		0.00	0.00	0.00	-6.32	-7.99	8.848E-01	-1.943E-01	1.474E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
39	Minima		0.00	0.00	0.00	-7.03	-9.77	-9.805E-01	-2.053E-01	6.613E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
39	Maxima		0.00	0.00	0.00	-4.41	-4.28	-2.575E-01	-1.964E-01	7.739E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
40	Minima		0.00	0.00	0.00	-5.18	-5.40	-1.61	-1.604E-01	7.640E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
40	Maxima		0.00	0.00	0.00	-1.92	-1.621E-01	-9.584E-01	-1.458E-01	8.940E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
41	Minima		0.00	0.00	0.00	-2.60	-5.078E-01	-1.67	-1.130E-01	4.728E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
41	Maxima		0.00	0.00	0.00	-8.778E-02	2.26	-1.21	-7.201E-02	5.369E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
42	Minima		0.00	0.00	0.00	-5.269E-01	-1.215E-02	-1.58	-6.792E-02	-3.134E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
42	Maxima		0.00	0.00	0.00	2.472E-02	2.26	-1.17	1.573E-02	-3.098E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
43	Minima		0.00	0.00	0.00	-3.97	-5.77	3.58	-2.269E-01	-1.10
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
43	Maxima		0.00	0.00	0.00	2.211E-02	3.559E-02	4.75	-5.302E-02	-7.341E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
44	Minima		0.00	0.00	0.00	-6.35	-8.92	2.07	-4.285E-01	-6.085E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1

SHELL	LOAD	JOINT	F11	F22	F12	M11	M22	M12	V13	V23
44	Minima		0.00	0.00	0.00	-2.96	-3.49	3.51	-3.261E-01	-4.157E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
45	Minima		0.00	0.00	0.00	-6.35	-8.92	1.272E-01	-4.863E-01	1.065E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
45	Maxima		0.00	0.00	0.00	-4.48	-4.79	1.25	-4.514E-01	1.472E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1

26B

S H E L L E L E M E N T R E S U L T A N T S

SHELL	LOAD	JOINT	F11	F22	F12	M11	M22	M12	V13	V23
46	Minima		0.00	0.00	0.00	-6.32	-8.00	-1.76	-4.318E-01	4.577E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
46	Maxima		0.00	0.00	0.00	-2.83	-2.43	-6.655E-01	-3.919E-01	6.738E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
47	Minima		0.00	0.00	0.00	-4.42	-4.29	-2.59	-3.014E-01	5.194E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
47	Maxima		0.00	0.00	0.00	-8.313E-01	1.238E-01	-1.87	-2.219E-01	7.682E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
48	Minima		0.00	0.00	0.00	-1.92	-1.649E-01	-2.54	-1.530E-01	3.442E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
48	Maxima		0.00	0.00	0.00	5.335E-01	2.21	-2.02	-8.496E-02	4.584E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
49	Minima		0.00	0.00	0.00	-1.235E-01	-5.105E-02	-2.06	-8.774E-02	-3.416E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
49	Maxima		0.00	0.00	0.00	5.369E-01	2.21	-1.78	3.488E-02	-2.751E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
50	Minima		0.00	0.00	0.00	-3.03	-3.59	5.00	-6.025E-01	-6.722E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
50	Maxima		0.00	0.00	0.00	9.737E-02	1.473E-01	5.88	-4.643E-02	-9.399E-03
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
51	Minima		0.00	0.00	0.00	-4.73	-5.49	2.82	-1.01	-3.675E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
51	Maxima		0.00	0.00	0.00	3.281E-02	6.455E-02	4.32	-7.152E-01	-1.173E-02
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
52	Minima		0.00	0.00	0.00	-4.73	-5.48	-1.604E-02	-1.03	-9.159E-03
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
52	Maxima		0.00	0.00	0.00	1.858E-02	1.714E-02	1.43	-9.901E-01	1.140E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
53	Minima		0.00	0.00	0.00	-4.52	-4.85	-2.38	-9.228E-01	-3.959E-03
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
53	Maxima		0.00	0.00	0.00	4.551E-02	9.970E-02	-1.22	-6.313E-01	4.330E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
54	Minima		0.00	0.00	0.00	-2.86	-2.51	-3.27	-5.251E-01	7.219E-04
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
54	Maxima		0.00	0.00	0.00	3.926E-02	1.258E-01	-2.79	-1.718E-01	4.797E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
55	Minima		0.00	0.00	0.00	-8.463E-01	-3.586E-02	-3.13	-8.434E-02	9.934E-03
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
55	Maxima		0.00	0.00	0.00	5.297E-01	1.74	-2.60	1.517E-01	3.084E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
56	Minima		0.00	0.00	0.00	-3.158E-02	-5.777E-02	-2.16	4.596E-02	-2.979E-01
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1
56	Maxima		0.00	0.00	0.00	5.331E-01	1.75	-1.87	1.425E-01	2.521E-02
			COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1	COMB1