

A thick black L-shaped frame surrounds the text. The top-left corner is a horizontal bar extending to the right, and the bottom-right corner is a vertical bar extending upwards. The text is centered within the frame.

ANALISIS DE MATERIALES DE CONSTRUCCION

MOMENTOS



ROXANA GERALDINE HERNANDEZ GALVEZ

ARQ. PEDRO ALBERTO GARCIA LOPEZ

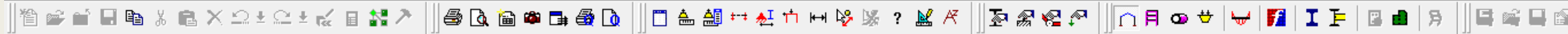
ANALISIS DE MATERIALES DE CONSTRUCCION

MOMENTOS

4° CUATRIMESTRE

LAR04EMC0120-A

COMITAN DE DOMINGUEZ CHIAPAS, NOVIEMBRE 2021



Modeling Building P

BARDA

- Setup
- Property
- Geometry
- Spec
- General
- Support
- Analysis/Print
- Load & Definition
- Design
- Material

STAAD Analysis and Design

```

++ Processing Element Forces.          12:32:51
++ Processing Element Corner Forces.   12:32:51
++ Processing Element Stresses.        12:32:51
++ Performing Concrete Design          12:32:51
++ Calculating Section Forces1.        12:32:51
++ Calculating Section Forces2.        12:32:51
++ Calculating Section Forces3.        12:32:51
++ Start Concrete Design ...           12:32:51
++ Start Concrete Design ...           12:32:56
++ Creating Displacement File (DSP)...   12:33: 0
++ Creating Reaction File (REA)...       12:33: 0
++ Calculating Section Forces1-110.     12:33: 0
++ Calculating Section Forces2.        12:33: 0
++ Calculating Section Forces3.        12:33: 0
++ Creating Section Force File (BMD)...  12:33: 0
++ Creating Section Displace File (SCN)... 12:33: 1
++ Creating Element Stress File (EST)... 12:33: 1
++ Creating Element JT Stress File (EJT)... 12:33: 1
++ Creating Element JT Force File (ECF)... 12:33: 1
++ Creating Design information File (DGN)... 12:33: 1
++ Done.                                12:33: 1

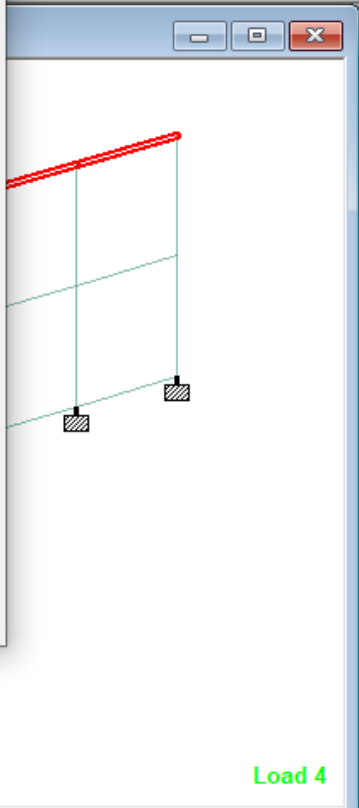
0 Error(s). 3 Warning(s). 0 Note(s)

++ End STAAD.Pro Run Elapsed Time = 11 Secs
C:\Users\ROXANA HERNANDEZ\Desktop\4° CUATRIMESTRE UD... .anl
  
```

View Output File
 Go to Post Processing Mode
 Stay in Modeling Mode

Done

Concrete Design Advanced Slab Design Earthquake



Load & Definition

- Definitions
 - Vehicle Definitions
 - Time History Definitions
 - Wind Definitions
 - Snow Definition
 - Reference Load Definitions
 - Seismic Definition (MEX: CFE - 1993)
 - ZONE 2 QX 2 QZ 2 GROUP B STYP 2
 - MEMBER WEIGHT
 - UNI 50
 - UNI 200
 - Pushover Definitions
 - Direct Analysis Definition
- Load Cases Details
 - 1: SX
 - 2: SZ
 - 3: CM

Toggle Load
 Assignment Method
 Assign To Selected Beams Use Cursor To Assign
 Assign To View Assign To Edit List

41 To 52

For Help, press F1

Modeling Mo Load 4: CVM Input Units: kg-m

Client: BARDA ROXANA HDEZ | Date/Time: 10-Nov-2021 12:43

Job Information

Engineer	Checked	Approved
Name:		
Date:	25-Oct-21	

Project ID: _____
Project Name: _____

Structure Type: SPACE FRAME

Number of Nodes	42	Highest Node	42
Number of Elements	52	Highest Beam	52
Number of Plates	24	Highest Plate	76

Number of Basic Load Cases	-2
Number of Combination Load Cases	17

Included in this printout are data for:


All	The Whole Structure
-----	---------------------

Included in this printout are results for load cases:

Type	L/C	Name
Primary	1	SX
Primary	2	SZ
Combination	22	1.0 CM + 1.0 CVM

Reactions

Node	L/C	Horizontal		Vertical	Moment		
		FX (kg)	FY (kg)		FZ (kg)	MX (MTon.m)	MY (MTon.m)
1	1-SX	-37.860	-130.711	0.000	0.000	0.000	-0.006
	2-SZ	0.000	0.000	-56.793	-0.433	0.053	0.000
	22-1.0 CM + 1	426.012	4.26E+3	0.000	0.000	0.000	0.411
2	1-SX	-59.900	-46.469	0.000	0.000	0.000	0.009
	2-SZ	0.000	0.000	-116.800	-0.662	-0.001	0.000
	22-1.0 CM + 1	162.680	6.68E+3	0.000	0.000	0.000	-0.014
3	1-SX	-72.073	-8.988	0.000	0.000	0.000	0.004
	2-SZ	0.000	0.000	-118.711	-0.675	-0.002	0.000
	22-1.0 CM + 1	67.636	6.94E+3	0.000	0.000	0.000	-0.008
4	1-SX	-74.639	-0.000	0.000	0.000	0.000	0.003
	2-SZ	0.000	0.000	-118.517	-0.679	-0.000	0.000
	22-1.0 CM + 1	-0.000	6.99E+3	0.000	0.000	0.000	-0.000
5	1-SX	-72.073	8.988	0.000	0.000	0.000	0.004
	2-SZ	0.000	0.000	-118.711	-0.675	0.002	0.000
	22-1.0 CM + 1	-67.636	6.94E+3	0.000	0.000	0.000	0.008
6	1-SX	-59.900	46.469	0.000	0.000	0.000	0.009
	2-SZ	0.000	0.000	-116.800	-0.662	0.001	0.000
	22-1.0 CM + 1	-162.680	6.68E+3	0.000	0.000	0.000	0.014
7	1-SX	-37.860	130.711	0.000	0.000	0.000	-0.006

 Software licensed to	Job No	Sheet No	Rev
	Part	2	
Job Title	Ref		
Client	By	Date	Chd
	BARDA ROXANA HDEZ	25-Oct-21	
	File	Date/Time	
	BARDA ROXANA HDEZ	10-Nov-2021 12:43	

Reactions Cont...

Node	L/C	Horizontal	Vertical	Horizontal	Moment		
		FX (kg)	FY (kg)	FZ (kg)	MX (MTon'm)	MY (MTon'm)	MZ (MTon'm)
	2:SZ	0.000	0.000	-56.793	-0.433	0.053	0.000
	22:1.0 CM + 1	426.012	4.26E+3	0.000	0.000	0.000	0.411
9	1:SX	-59.900	-46.469	0.000	0.000	0.000	0.009
	2:SZ	0.000	0.000	-116.800	-0.662	-0.001	0.000
	22:1.0 CM + 1	162.680	6.68E+3	0.000	0.000	0.000	-0.014
10	1:SX	-72.074	-8.988	0.000	0.000	0.000	0.004
	2:SZ	0.000	0.000	-118.711	-0.675	-0.002	0.000
	22:1.0 CM + 1	67.636	6.94E+3	0.000	0.000	0.000	-0.008
11	1:SX	-74.639	-0.000	0.000	0.000	0.000	0.003
	2:SZ	0.000	0.000	-118.517	-0.679	-0.000	0.000
	22:1.0 CM + 1	0.000	6.99E+3	0.000	0.000	0.000	0.000
12	1:SX	-72.073	8.988	0.000	0.000	0.000	0.004
	2:SZ	0.000	0.000	-118.711	-0.675	0.002	0.000
	22:1.0 CM + 1	-67.637	6.94E+3	0.000	0.000	0.000	0.008
13	1:SX	-59.900	46.469	0.000	0.000	0.000	0.009
	2:SZ	0.000	0.000	-116.800	-0.662	0.001	0.000
	22:1.0 CM + 1	-162.680	6.68E+3	0.000	0.000	0.000	0.014
14	1:SX	-37.860	130.711	0.000	0.000	0.000	-0.006
	2:SZ	0.000	0.000	-56.793	-0.433	-0.053	0.000
	22:1.0 CM + 1	-426.012	4.26E+3	0.000	0.000	0.000	-0.411

NODOS	CARGA (TON)	DISTANCIA (M)	MOMENTOS (T.M)
1	4.26	0	0
2	6.68	2.5	16.7
3	6.94	5	34.7
4	6.99	7.5	52.425
5	6.94	10	69.4
6	6.68	12.5	83.5
7	4.26	15	63.9
	42.75 TON	15 M	320.625 T.M

CENTRO DE CARGAS: $320.625 \text{ T.M} / 42.74 \text{ T} = 7.5 \text{ M}$

CENTRO GEOMETRICO: $15 \text{ M} / 2 = 7.5 \text{ M}$

EXENTRICIDAD: 0