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NOMBRE DEL PROFESOR: PEDRO GARCÍA.

MATERIA: ANÁLISIS DE ESTRUCTURAS.

NOMBRE DEL TRABAJO: EDIFICIO.

GRADO: 5º.

GRUPO: A.

File Edit View Tools Select Geometry Commands Analyze Mode Bentley Cloud Services Window Help

Modeling Building Planner Piping Bridge Deck Postprocessing Foundation Design Steel Design RAM Connection Concrete Design Advanced Slab Design Earthquake

EDIFICIO - Whole Structure

EDIFICIO - Nodes

Node	X m	Y m	Z m
2	0.000	0.000	-16.000
3	0.000	0.000	-24.000
4	8.000	0.000	-8.000
5	8.000	0.000	-16.000
6	8.000	0.000	-24.000
7	16.000	0.000	-8.000
8	16.000	0.000	-16.000
9	16.000	0.000	-24.000
10	24.000	0.000	-8.000
11	24.000	0.000	-16.000
14	0.000	3.500	-16.000
15	0.000	3.500	-24.000
16	8.000	3.500	-8.000
17	8.000	3.500	-16.000

EDIFICIO - Beams

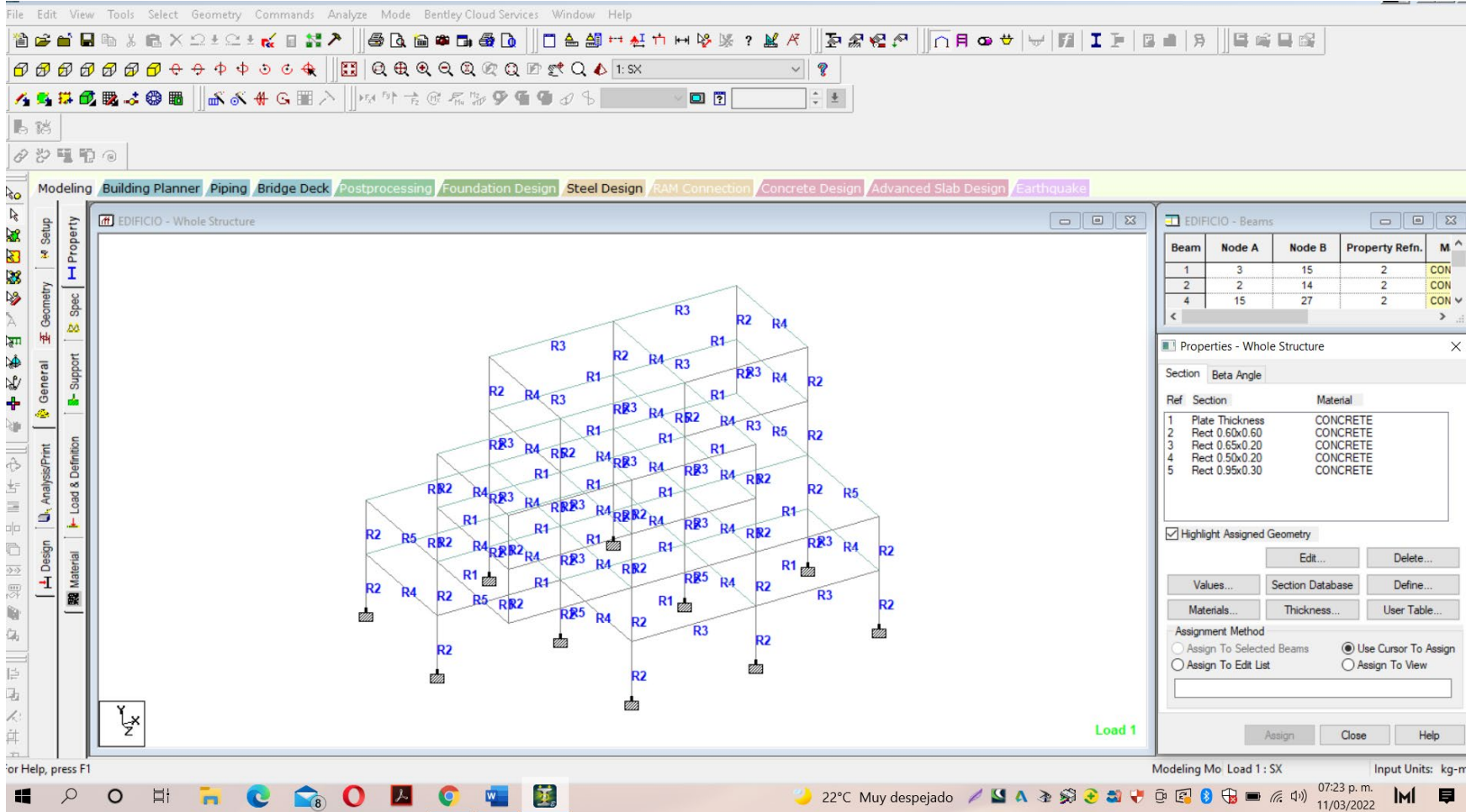
Beam	Node A	Node B	Property Refn
1	3	15	2
2	2	14	2
4	15	27	2
5	14	26	2
6	4	16	2
7	7	19	2
8	10	22	2
9	22	34	2
10	11	23	2
11	23	35	2
13	19	31	2
14	8	20	2

Load 1

For Help, press F1

Modeling Mo Load 1: SX Input Units: kg-m

22°C Muy despejado 07:22 p. m. 11/03/2022



Beam	Node A	Node B	Property Refn.	M
1	3	15	2	CON
2	2	14	2	CON
4	15	27	2	CON

Ref	Section	Material
1	Plate Thickness	CONCRETE
2	Rect 0.60x0.60	CONCRETE
3	Rect 0.65x0.20	CONCRETE
4	Rect 0.50x0.20	CONCRETE
5	Rect 0.95x0.30	CONCRETE

START CONCRETE DESIGN

- ✓ CODE ACI
- ✓ FC 2.00014e+006
- ✓ FYMAIN 4.2003e+007
- ✓ TRACK 2
- ✓ DESIGN BEAM
- ✓ DESIGN COLUMN
- ✓ END CONCRETE DESIGN

FINISH

Highlight Assigned Geometry  
 Toggle Assign

Select Parameters.. Define Parameters.. Commands...

Assignment Method

- Assign To Selected Beams
- Assign To View
- Use Cursor To Assign
- Assign To Edit List

Select Group/Deck

Assign Close Help

to Load 1 : SX Input Units: kg-m

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11/03/2022

STAAD Analysis and Design

```
++ Read/Check Data in Load Cases .. 19:24:31
++ Using In-Core Advanced Math Solver
++ Processing and setting up Load Vector. 19:24:31
++ Processing Element Stiffness Matrix. 19:24:31
++ Calculating Member Forces. 19:24:31
++ Analysis Successfully Completed ++
++ Processing Element Forces. 19:24:31
++ Processing Element Corner Forces. 19:24:31
++ Processing Element Stresses. 19:24:31
++ Performing Concrete Design 19:24:31
++ Calculating Section Forces1. 19:24:31
++ Calculating Section Forces2. 19:24:31
++ Calculating Section Forces3. 19:24:31
++ Start Concrete Design ... 19:24:31
++ Start Concrete Design ... 19:24:40
++ Creating Displacement File (DSP)... 19:24:48
++ Creating Reaction File (REA)... 19:24:48
++ Calculating Section Forces1-110. 19:24:48
++ Calculating Section Forces2. 19:24:48
++ Calculating Section Forces3 19:24:48
++ Creating Section Force File (BMD)... 19:24:49
++ Creating Section Displace File (SCN)... 19:24:49
++ Creating Element Stress File (EST)... 19:24:49
++ Creating Element JT Stress File (EJT)... 19:24:49
++ Creating Element JT Force File (ECF)... 19:24:49
++ Creating Design information File (DGN)... 19:24:49
++ Done. 19:24:49

0 Error(s), 1 Warning(s), 1 Note(s)

++ End STAAD.Pro Run Elapsed Time = 19 Secs
C:\Users\USUARIO\Documents\TRABAJOS LUIS UDS\EDIFICI... .anl
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View Output File  
 Go to Post Processing Mode  
 Stay in Modeling Mode

Done

Modeling Mo Load 1: SX Input Units: kg-r

1uy despejado 07:25 p. m. 11/03/2022