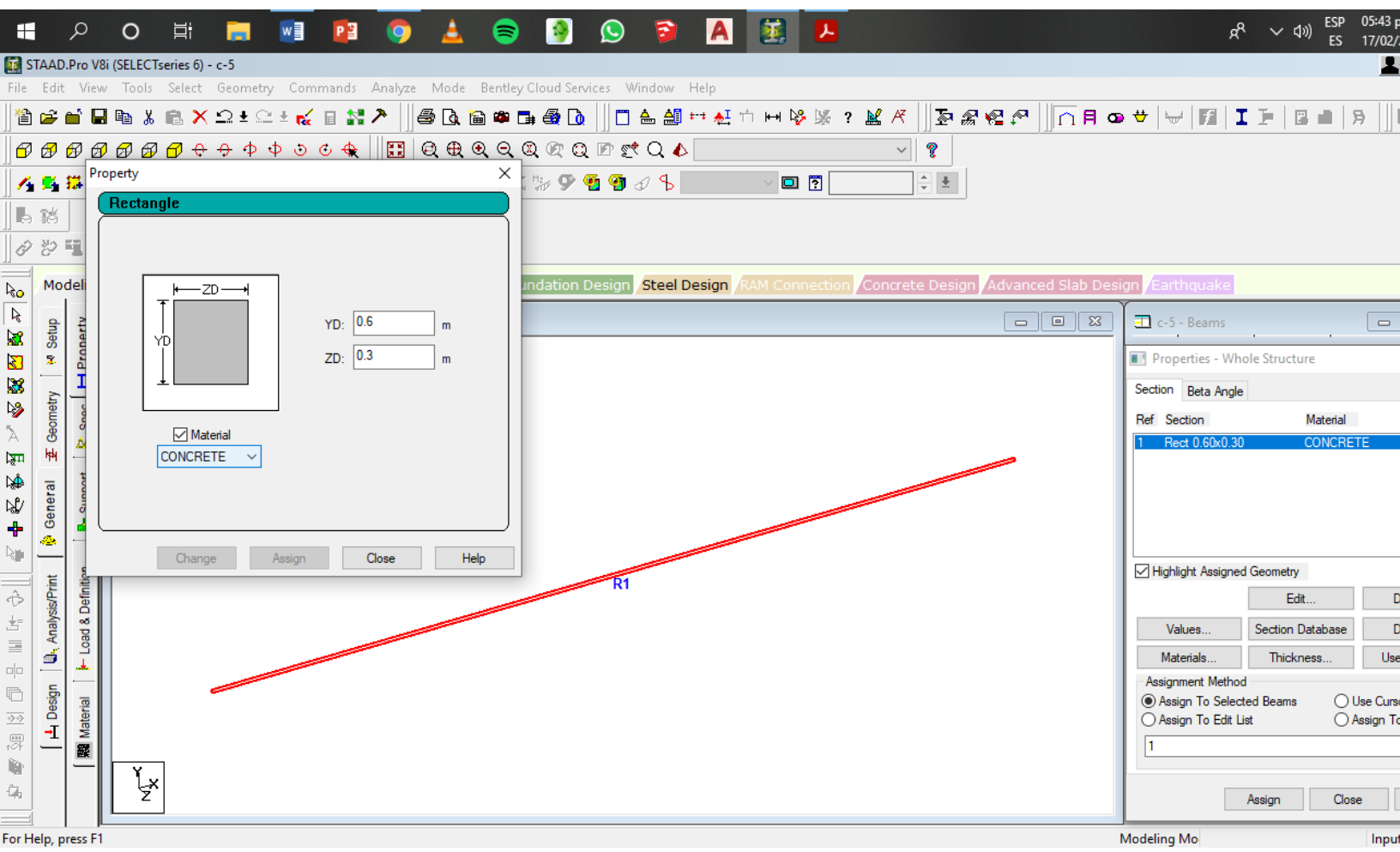
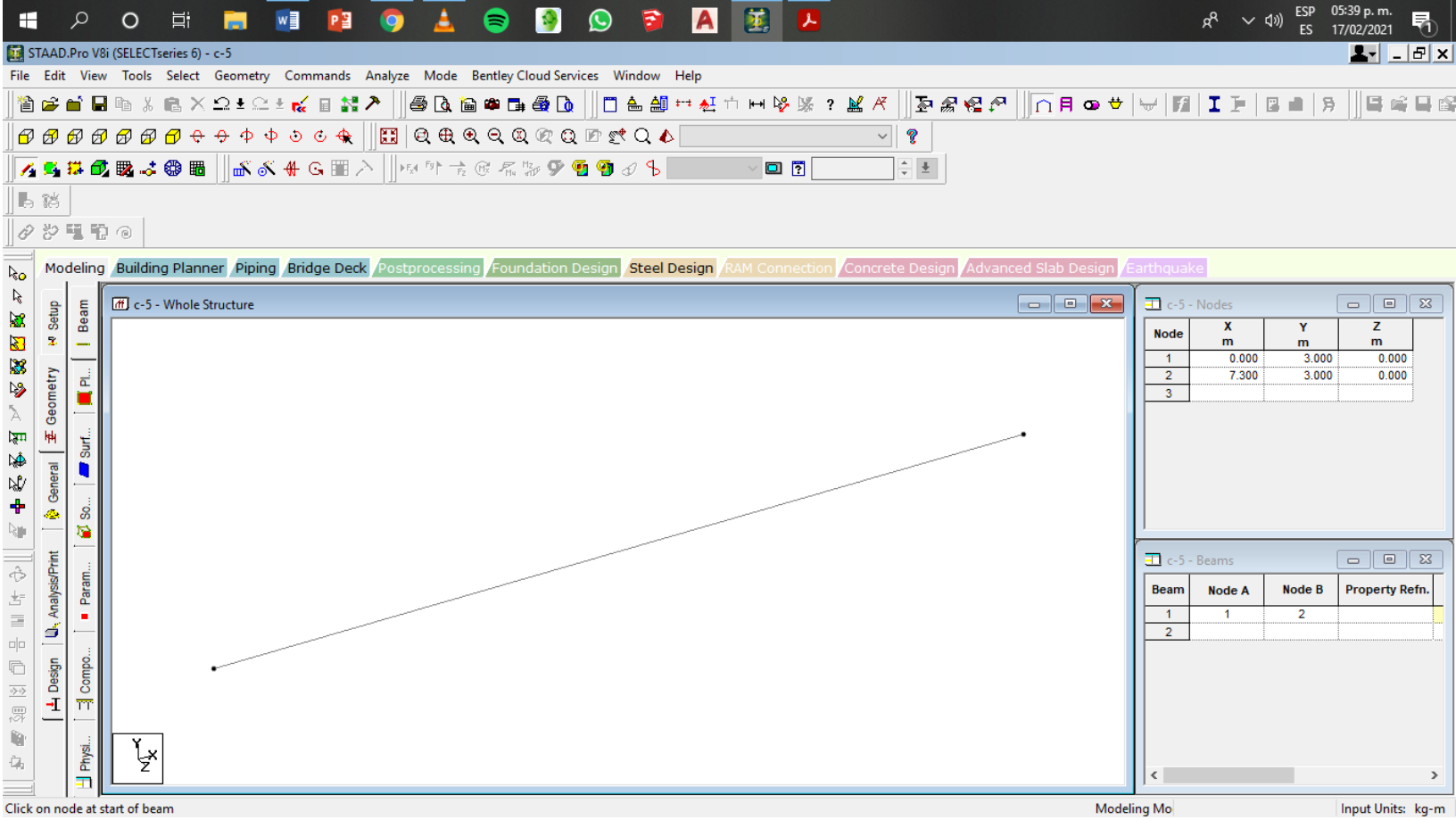
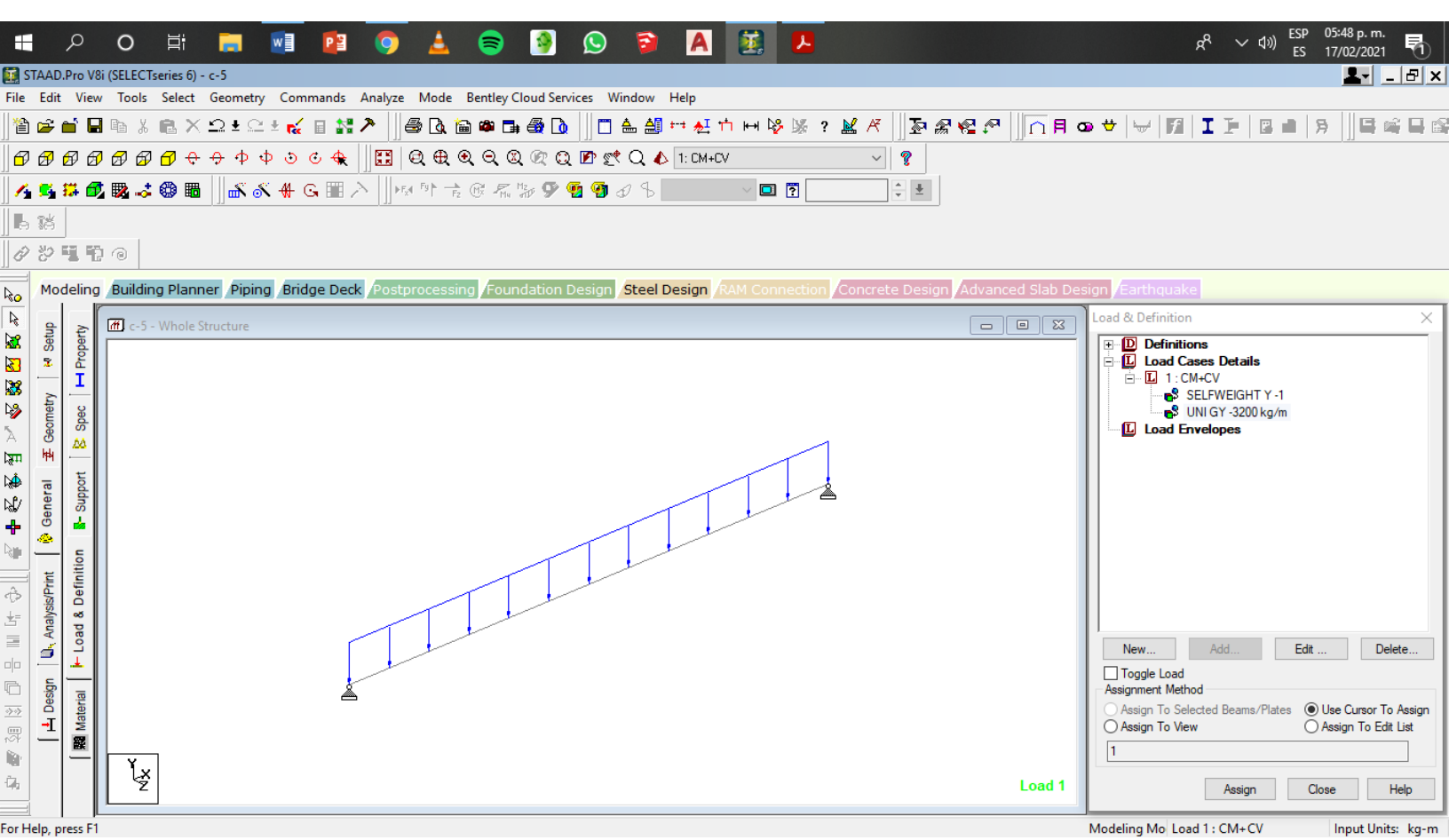
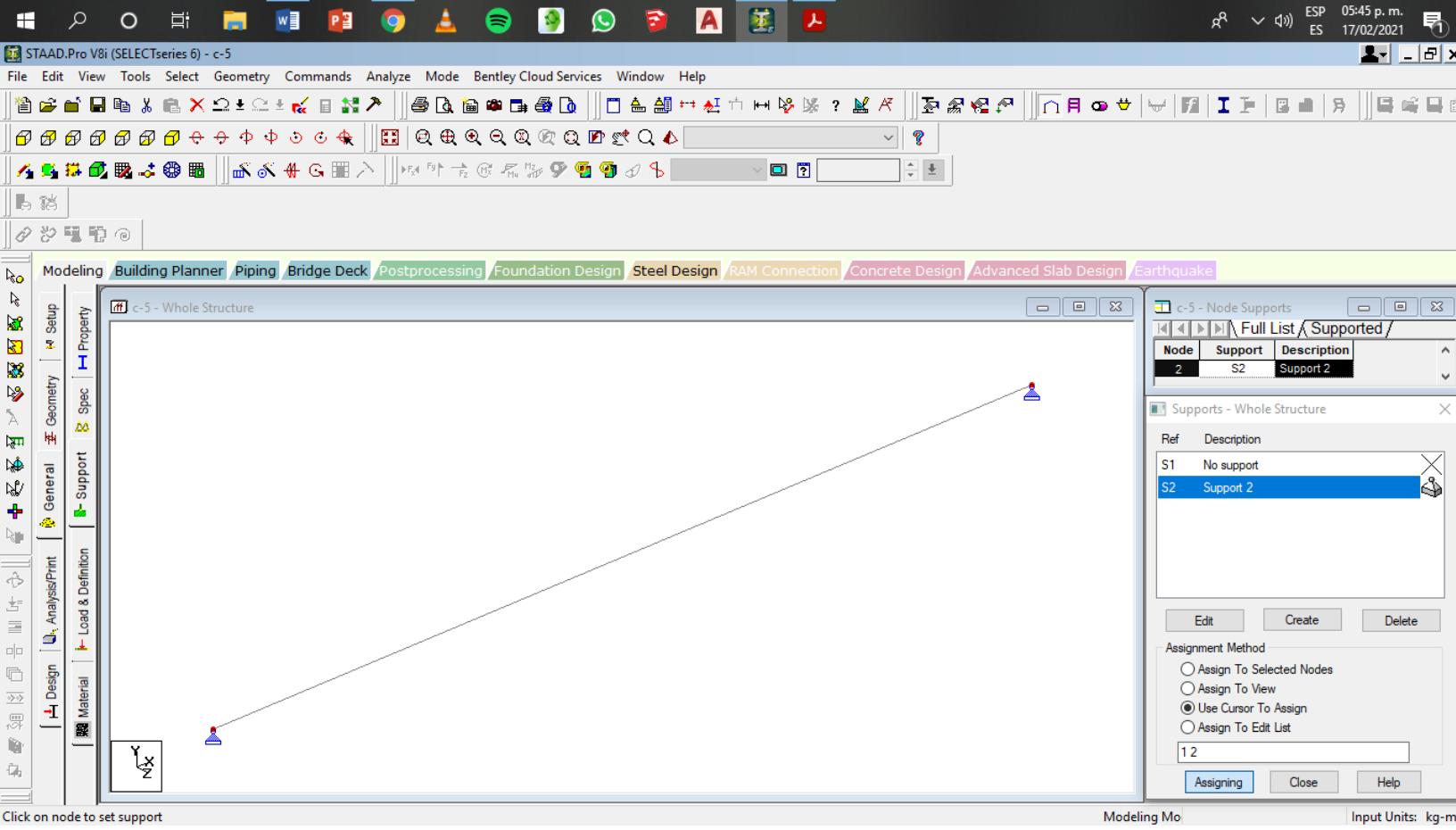


Examen



- Lic. Arquitectura
- 5to cuatrimestre
- Rudy Guillén Pohlenz
- PEDRO ALBERTO GARCIA LOPEZ
- ANALISIS DE ESTRUCTURAS





STAAD.Pro V8i (SELECTseries 6) - c-5

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

1: CM+CV

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

c-5 - Whole Structure

Analysis - Whole Structure

- STAAD SPACE
- START JOB INFORMATION
- INPUT WIDTH 79
- UNIT METER KG
- JOINT COORDINATES
- MEMBER INCIDENCES
- DEFINE MATERIAL START
- MEMBER PROPERTY
- CONSTANTS
- SUPPORTS
- LOAD 1 LOADTYPE None TITLE CM+CV
- PERFORM ANALYSIS
- FINISH

Define Commands...

Assign Close Help

For Help, press F1

Modeling Mo: Load 1: CM+CV Input Units: kg-m

STAAD.Pro V8i (SELECTseries 6) - c-5

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

1: CM+CV

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

c-5 - Whole Structure

Concrete Design - Whole Structure

Current Code: Mexican

- LOAD 1 LOADTYPE None TITLE CM+CV
- PERFORM ANALYSIS
- START CONCRETE DESIGN
- CODE MEXICAN
- FC 2.00014e+006
- TRACK 2
- DESIGN BEAM
- 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

1

Assign Close Help

Click on beam to assign command

Modeling Mo: Load 1: CM+CV Input Units: kg-m

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

Modeling Building Planner Piping Bridge Deck

c-5 - Whole Structure

Setup Steel Concrete Timber Aluminum Shearwall

WARNING

***WARNING - INSTABILITY AT JOINT

REQUIRED REINF. STEEL SUMMARY :

SECTION (MM)	REINF STEEL (+VE/-VE) (SQ. MM)	MOMENTS (+VE/-VE) (KNS-MET)	LOAD (+VE/-VE)
0.00	0.00/	0.00	0./ 0.00 0/ 1
608.33	385.24/	0.00	73./ 0.00 1/ 0
1216.67	725.45/	0.00	132./ 0.00 1/ 0
1825.00	1009.45/	0.00	178./ 0.00 1/ 0
2433.33	1224.95/	0.00	211./ 0.00 1/ 0
3041.67	1360.17/	0.00	231./ 0.00 1/ 0
3650.00	1406.34/	0.00	237./ 0.00 1/ 0
4258.33	1360.17/	0.00	231./ 0.00 1/ 0
4866.67	1224.95/	0.00	211./ 0.00 1/ 0
5475.00	1009.45/	0.00	178./ 0.00 1/ 0
6083.33	725.45/	0.00	132./ 0.00 1/ 0
6691.67	385.24/	0.00	73./ 0.00 1/ 0
7300.00	0.00/	0.00	0./ 0.00 0/ 1

BEAM NO. 1 DESIGN RESULTS - SHEAR

-----< PAGE 3 Ends Here >-----

NOTES RESULTS

STAAD SPACE -- PAGE NO.

Total Page: 4 CAP NUM

Modeling Mo: Load 1: CM+CV Input Units: kg-m

STAAD.Pro V8i (SELECTseries 6) - c-17

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

c-17 - Whole Structure

c-17 - Nodes

Node	X m	Y m	Z m
1	0.000	3.000	0.000
2	2.900	3.000	0.000
3			

c-17 - Beams

Beam	Node A	Node B	Property Refn.
1	1	2	
2			

Click on node at start of beam

Modeling Mo

Input Units: kg-m

STAAD.Pro V8i (SELECTseries 6) - c-17

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

Property

Rectangle

YD: 0.25 m
ZD: 0.15 m

Material
CONCRETE

Change Assign Close Help

c-17 - Beams

Properties - Whole Structure

Ref	Section	Material
1	Rect 0.25x0.15	CONCRETE

Highlight Assigned Geometry

Edit... Delete...

Values... Section Database Define...

Materials... Thickness... User Table...

Assignment Method

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

1

Assign Close Help

For Help, press F1

Modeling Mo

Input Units: kg-m

STAAD.Pro V8i (SELECTseries 6) - c-17

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

c-17 - Whole Structure

c-17 - Node Supports

Node	Support	Description
2	S2	Support 2

Supports - Whole Structure

Ref	Description
S1	No support
S2	Support 2

Assignment Method

Assign To Selected Nodes

Assign To View

Use Cursor To Assign

Assign To Edit List

1 2

Assigning Close Help

Click on node to set support

Modeling Mo Input Units: kg-m

STAAD.Pro V8i (SELECTseries 6) - c-17

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

c-17 - Whole Structure

1: CM+CV

Load & Definition

Definitions

Load Cases Details

- 1: CM+CV
 - SELFWEIGHT Y -1
 - UNI GY -3100 kg/m

Load Envelopes

New... Add... Edit... Delete...

Toggle Load

Assignment Method

Assign To Selected Beams/Plates

Use Cursor To Assign

Assign To View

Assign To Edit List

1

Assign Close Help

For Help, press F1

Modeling Mo Load 1: CM+CV Input Units: kg-m

STAAD.Pro V8i (SELECTseries 6) - c-17

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

1: CM+CV

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

c-17 - Whole Structure

Analysis - Whole Structure

- STAAD SPACE
- START JOB INFORMATION
- INPUT WIDTH 79
- UNIT METER KG
- JOINT COORDINATES
- MEMBER INCIDENCES
- DEFINE MATERIAL START
- MEMBER PROPERTY
- CONSTANTS
- SUPPORTS
- LOAD 1 LOADTYPE None TITLE CM+CV
- PERFORM ANALYSIS
- FINISH

Define Commands...

Assign Close Help

For Help, press F1

Modeling Mo: Load 1: CM+CV Input Units: kg-m

STAAD.Pro V8i (SELECTseries 6) - c-17

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

1: CM+CV

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

c-17 - Whole Structure

Concrete Design - Whole Structure

Current Code: Mexican

- LOAD 1 LOADTYPE None TITLE CM+CV
- PERFORM ANALYSIS
- START CONCRETE DESIGN
- CODE MEXICAN
- FC 2.00014e+006
- TRACK 2
- DESIGN BEAM
- 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

1

Assign Close Help

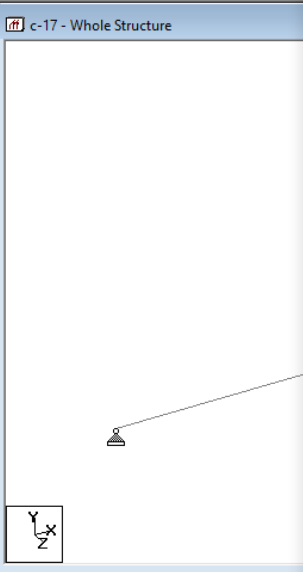
For Help, press F1

Modeling Mo: Load 1: CM+CV Input Units: kg-m

Modeling Building Planner Piping Bridge Deck

c-17 - Whole Structure

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



c-17.anl - STAAD Output Viewer

File Edit View Help

WARNING

***WARNING - INSTABILITY AT JOINT

NOTES

RESULTS

Cracked Moment of Inertia Iz at above location =0.11068E+09 mm^4

REQUIRED REINF. STEEL SUMMARY :

SECTION (MM)	REINF STEEL (+VE/-VE) (SQ. MM)	MOMENTS (+VE/-VE) (KNS-MET)	LOAD (+VE/-VE)
0.00	0.00/ 0.00	0./ 0.00	0/ 1
241.67	150.33/ 0.00	10./ 0.00	1/ 0
483.33	286.42/ 0.00	19./ 0.00	1/ 0
725.00	403.27/ 0.00	25./ 0.00	1/ 0
966.67	494.53/ 0.00	30./ 0.00	1/ 0
1208.33	553.24/ 0.00	33./ 0.00	1/ 0
1450.00	573.58/ 0.00	34./ 0.00	1/ 0
1691.67	553.24/ 0.00	33./ 0.00	1/ 0
1933.33	494.53/ 0.00	30./ 0.00	1/ 0
2175.00	403.27/ 0.00	25./ 0.00	1/ 0
2416.67	286.42/ 0.00	19./ 0.00	1/ 0
2658.33	150.33/ 0.00	10./ 0.00	1/ 0
2900.00	0.00/ 0.00	0./ 0.00	0/ 1

STAAD.Pro V8i (SELECTseries 6) - C-1

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

C-1 - Whole Structure

C-1 - Nodes

Node	X m	Y m	Z m
1	0.000	3.000	0.000
2	8.100	3.000	0.000
3			

C-1 - Beams

Beam	Node A	Node B	Property Refn.
1	1	2	
2			

Click on node at start of beam

Modeling Mo

Input Units: kg-m

STAAD.Pro V8i (SELECTseries 6) - C-1

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

Property

Rectangle

YD: 0.65 m
ZD: 0.25 m

Material
CONCRETE

Change Assign Close Help

C-1 - Whole Structure

C-1 - Beams

Properties - Whole Structure

Section Beta Angle

Ref	Section	Material
1	Rect 0.65x0.25	CONCRETE

Highlight Assigned Geometry

Edit... Delete...

Values... Section Database Define...

Materials... Thickness... User Table...

Assignment Method

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

1

Assign Close Help

For Help, press F1

Modeling Mo

Input Units: kg-m

STAAD.Pro V8i (SELECTseries 6) - C-1

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

C-1 - Whole Structure

C-1 - Node Supports

Node	Support	Description
2	S2	Support 2

Supports - Whole Structure

Ref	Description
S1	No support
S2	Support 2

Assignment Method

Assign To Selected Nodes

Assign To View

Use Cursor To Assign

Assign To Edit List

1 2

Assigning Close Help

Click on node to set support

Modeling Mo Input Units: kg-m

STAAD.Pro V8i (SELECTseries 6) - C-1

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

C-1 - Whole Structure

Load & Definition

Definitions

Load Cases Details

- 1: CM+CV
 - SELFWEIGHT Y-1
 - UNI GY -3400 kg/m

Load Envelopes

Toggle Load

Assignment Method

Assign To Selected Beams/Plates

Assign To View

Use Cursor To Assign

Assign To Edit List

1

Assigning Close Help

Click on beam to assign load

Modeling Mo Load 1: CM+CV Input Units: kg-m

STAAD.Pro V8i (SELECTSeries 6) - C-1

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

1: CM+CV

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

C-1 - Whole Structure

Analysis - Whole Structure

- STAAD SPACE
- START JOB INFORMATION
- INPUT WIDTH 79
- UNIT METER KG
- JOINT COORDINATES
- MEMBER INCIDENCES
- DEFINE MATERIAL START
- MEMBER PROPERTY
- CONSTANTS
- SUPPORTS
- LOAD 1 LOADTYPE None TITLE CM+CV
- PERFORM ANALYSIS
- FINISH

Define Commands...

Assign Close Help

Click on beam to assign load

Modeling Mo. Load 1: CM+CV Input Units: kg-m

STAAD.Pro V8i (SELECTSeries 6) - C-1

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

1: CM+CV

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

C-1 - Whole Structure

Concrete Design - Whole Structure

Current Code: Mexican

- SUPPORTS
- LOAD 1 LOADTYPE None TITLE CM+CV
- PERFORM ANALYSIS
- START CONCRETE DESIGN
 - CODE MEXICAN
 - FC 2.00014e+006
 - TRACK 2
 - DESIGN BEAM
 - 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

1

Assign Close Help

For Help, press F1

Modeling Mo. Load 1: CM+CV Input Units: kg-m

Modeling Building Planner Piping Bridge Deck

C-1 - Whole Structure

Steel
Concrete
Timber
Aluminum
Shearwall

C-1.anl - STAAD Output Viewer

File Edit View Help

WARNING

***WARNING - INSTABILITY AT JOINT

Cracked Moment of Inertia Iz at above location =0.31257E+10 mm^4

REQUIRED REINF. STEEL SUMMARY :

SECTION (MM)	REINF STEEL (+VE/-VE) (SQ. MM)	MOMENTS (+VE/-VE) (KNS-MET)	LOAD (+VE/-VE)
0.00	0.00/ 0.00	0./ 0.00	0/ 1
675.00	455.32/ 0.00	93./ 0.00	1/ 0
1350.00	867.92/ 0.00	169./ 0.00	1/ 0
2025.00	1222.56/ 0.00	229./ 0.00	1/ 0
2700.00	1499.88/ 0.00	271./ 0.00	1/ 0
3375.00	1678.48/ 0.00	296./ 0.00	1/ 0
4050.00	1740.41/ 0.00	305./ 0.00	1/ 0
4725.00	1678.48/ 0.00	296./ 0.00	1/ 0
5400.00	1499.88/ 0.00	271./ 0.00	1/ 0
6075.00	1222.56/ 0.00	229./ 0.00	1/ 0
6750.00	867.92/ 0.00	169./ 0.00	1/ 0
7425.00	455.31/ 0.00	93./ 0.00	1/ 0
8100.00	0.00/ 0.00	0./ 0.00	0/ 1

NOTES

RESULTS

Total Page: 4 CAP NUM

Modeling Mo: Load 1: CM+CV Input Units: kg-r

STAAD.Pro V8i (SELECTseries 6) - C-20

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

C-20 - Whole Structure

C-20 - Nodes

Node	X m	Y m	Z m
1	0.000	3.000	0.000
2	11.150	3.000	0.000
3			

C-20 - Beams

Beam	Node A	Node B	Property Refn.
1	1	2	
2			

Click on node at start of beam

Modeling Mo Input Units: kg-m

STAAD.Pro V8i (SELECTseries 6) - C-20

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

C-20 - Whole Structure

C-20 - Beams

Properties - Whole Structure

Section Beta Angle

Ref	Section	Material
1	Rect 0.95x0.30	CONCRETE

Highlight Assigned Geometry

Values... Section Database Define...
Materials... Thickness... User Table...

Assignment Method

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

Assigning Close Help

For Help, press F1

Modeling Mo Input Units: kg-m

STAAD.Pro V8i (SELECTseries 6) - C-20

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

C-20 - Whole Structure

C-20 - Node Supports

Node	Support	Description
2	S2	Support 2

Supports - Whole Structure

Ref	Description
S1	No support
S2	Support 2

Assignment Method

Assign To Selected Nodes
 Assign To View
 Use Cursor To Assign
 Assign To Edit List

1 2

Assigning Close Help

Click on node to set support

Modeling Mo Input Units: kg-m

STAAD.Pro V8i (SELECTseries 6) - C-20

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

C-20 - Whole Structure

Load & Definition

Definitions

Load Cases Details

- 1: CM+CV
 - SELFWEIGHT Y-1
 - UNI GY kg/m

Load Envelopes

New... Add... Edit... Delete...

Toggle Load

Assignment Method

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

1

Assign Close Help

For Help, press F1

Modeling Mo Load 1 : CM+CV Input Units: kg-m

STAAD.Pro V8i (SELECTSeries 6) - C-20

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

1: CM+CV

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

C-20 - Whole Structure

Analysis - Whole Structure

- STAAD SPACE
- START JOB INFORMATION
- INPUT WIDTH 79
- UNIT METER KG
- JOINT COORDINATES
- MEMBER INCIDENCES
- DEFINE MATERIAL START
- MEMBER PROPERTY
- CONSTANTS
- SUPPORTS
- LOAD 1 LOADTYPE None TITLE CM+CV
- PERFORM ANALYSIS
- FINISH

Define Commands...

Assign Close Help

For Help, press F1

Modeling Mo: Load 1 : CM+CV Input Units: kg-m

STAAD.Pro V8i (SELECTSeries 6) - C-20

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

1: CM+CV

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

C-20 - Whole Structure

Concrete Design - Whole Structure

Current Code: Mexican

- LOAD 1 LOADTYPE None TITLE CM+CV
- PERFORM ANALYSIS
- START CONCRETE DESIGN
- CODE MEXICAN
- FC 2.00014e+006
- TRACK 2
- DESIGN BEAM
- 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

1

Assign Close Help

For Help, press F1

Modeling Mo: Load 1 : CM+CV Input Units: kg-m

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

Modeling Building Planner Piping Bridge Deck

C-20 - Whole Structure

Setup Geometry General Analysis/Print Design Shearwall Aluminum Timber Concrete Steel

WARNING

**WARNING-Loading values are blank
***WARNING - INSTABILITY AT JOINT

Cracked Moment of Inertia I_z at above location =0.27125E+10 mm⁴

REQUIRED REINF. STEEL SUMMARY :

SECTION (MM)	REINF STEEL (+VE/-VE) (SQ. MM)	MOMENTS (+VE/-VE) (RNS-MET)	LOAD (+VE/-VE)
0.00	0.00/	0.00	0/ 1
929.17	229.67/	0.00	32./ 0.00 1/ 0
1858.33	235.33/	0.00	58./ 0.00 1/ 0
2787.50	318.86/	0.00	78./ 0.00 1/ 0
3716.67	378.90/	0.00	93./ 0.00 1/ 0
4645.83	415.05/	0.00	101./ 0.00 1/ 0
5575.00	427.18/	0.00	104./ 0.00 1/ 0
6504.17	427.18/	0.00	101./ 0.00 1/ 0
7433.33	427.18/	0.00	93./ 0.00 1/ 0
8362.50	427.18/	0.00	78./ 0.00 1/ 0
9291.67	427.18/	0.00	58./ 0.00 1/ 0
10220.83	427.18/	0.00	32./ 0.00 1/ 0
11150.00	0.00/	0.00	0./ 0.00 0/ 1

BEAM NO. 1 DESIGN RESULTS - SHEAR

NOTES RESULTS

Total Page: 4 CAP NUM

Modeling Mo: Load 1: CM+CV Input Units: kg-m

STAAD.Pro V8i (SELECTseries 6) - C-22

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

C-22 - Whole Structure

C-22 - Nodes

Node	X m	Y m	Z m
1	0.000	3.000	0.000
2	9.100	3.000	0.000
3			

C-22 - Beams

Beam	Node A	Node B	Property Refn.
1	1	2	
2			

Click on node at start of beam

Modeling Mo Input Units: kg-m

STAAD.Pro V8i (SELECTseries 6) - C-22

File Edit View Property

Rectangle

YD: 0.75 m
ZD: 0.3 m

Material: CONCRETE

Change Assign Close Help

C-22 - Beams

Properties - Whole Structure

Ref	Section	Material
1	Rect 0.75x0.30	CONCRETE

Highlight Assigned Geometry

Assignment Method

Assign To Selected Beams Use Cursor To Assign

Assign To Edit List Assign To View

1

Assigning Close Help

Click on beams to assign property

Modeling Mo Input Units: kg-m

STAAD.Pro V8i (SELECTseries 6) - C-22

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

C-22 - Whole Structure

C-22 - Node Supports

Node	Support	Description
2	S2	Support 2

Supports - Whole Structure

Ref	Description
S1	No support
S2	Support 2

Assignment Method

Assign To Selected Nodes

Assign To View

Use Cursor To Assign

Assign To Edit List

1 2

Assigning Close Help

Click on node to set support

Modeling Mo Input Units: kg-m

STAAD.Pro V8i (SELECTseries 6) - C-22

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

C-22 - Whole Structure

Load & Definition

Definitions

- Load Cases Details
 - 1: CM+CV
 - SELFWEIGHT Y-1
 - UNI GY-1300 kg/m
- Load Envelopes

New... Add... Edit... Delete...

Toggle Load

Assignment Method

Assign To Selected Beams/Plates

Assign To View

Use Cursor To Assign

Assign To Edit List

1

Assign Close Help

For Help, press F1

Modeling Mo Load 1: CM+CV Input Units: kg-m

STAAD.Pro V8i (SELECTseries 6) - C-22

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

1: CM+CV

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

C-22 - Whole Structure

Analysis - Whole Structure

- STAAD SPACE
- START JOB INFORMATION
- INPUT WIDTH 79
- UNIT METER KG
- JOINT COORDINATES
- MEMBER INCIDENCES
- DEFINE MATERIAL START
- MEMBER PROPERTY
- CONSTANTS
- SUPPORTS
- LOAD 1 LOADTYPE None TITLE CM+CV
- PERFORM ANALYSIS
- FINISH

Define Commands...

Assign Close Help

For Help, press F1

Modeling Mo Load 1 : CM+CV Input Units: kg-m

STAAD.Pro V8i (SELECTseries 6) - C-22

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

1: CM+CV

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

C-22 - Whole Structure

Concrete Design - Whole Structure

Current Code: Mexican

- LOAD 1 LOADTYPE None TITLE CM+CV
- PERFORM ANALYSIS
- START CONCRETE DESIGN
- CODE MEXICAN
- FC 2.00014e+006
- TRACK 2
- DESIGN BEAM
- 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

1

Assign Close Help

For Help, press F1

Modeling Mo Load 1 : CM+CV Input Units: kg-m

STAAD.Pro V8i (SELECTseries 6) - C-22

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

C-22.anl - STAAD Output Viewer

File Edit View Help

WARNING

***WARNING - INSTABILITY AT JOINT

Cracked Moment of Inertia Iz at above location =0.25430E+10 mm⁴

REQUIRED REINF. STEEL SUMMARY :

SECTION (MM)	REINF STEEL (+VE/-VE) (SQ. MM)	MOMENTS (+VE/-VE) (KNS-MET)	LOAD (+VE/-VE)
0.00	0.00/ 0.00	0./ 0.00	0/ 1
758.33	482.15/ 0.00	57./ 0.00	1/ 0
1516.67	482.15/ 0.00	104./ 0.00	1/ 0
2275.00	579.80/ 0.00	140./ 0.00	1/ 0
3033.33	693.38/ 0.00	166./ 0.00	1/ 0
3791.67	762.59/ 0.00	182./ 0.00	1/ 0
4550.00	785.84/ 0.00	187./ 0.00	1/ 0
5308.33	762.59/ 0.00	182./ 0.00	1/ 0
6066.67	693.38/ 0.00	166./ 0.00	1/ 0
6825.00	579.80/ 0.00	140./ 0.00	1/ 0
7583.33	482.15/ 0.00	104./ 0.00	1/ 0
8341.67	482.15/ 0.00	57./ 0.00	1/ 0
9100.00	0.00/ 0.00	0./ 0.00	0/ 1

BEAM NO. 1 DESIGN RESULTS - SHEAR

NOTES

RESULTS

Total Page: 4 CAP NUM

Modeling Mo Load 1: CM+CV Input Units: kg-m

For Help, press F1