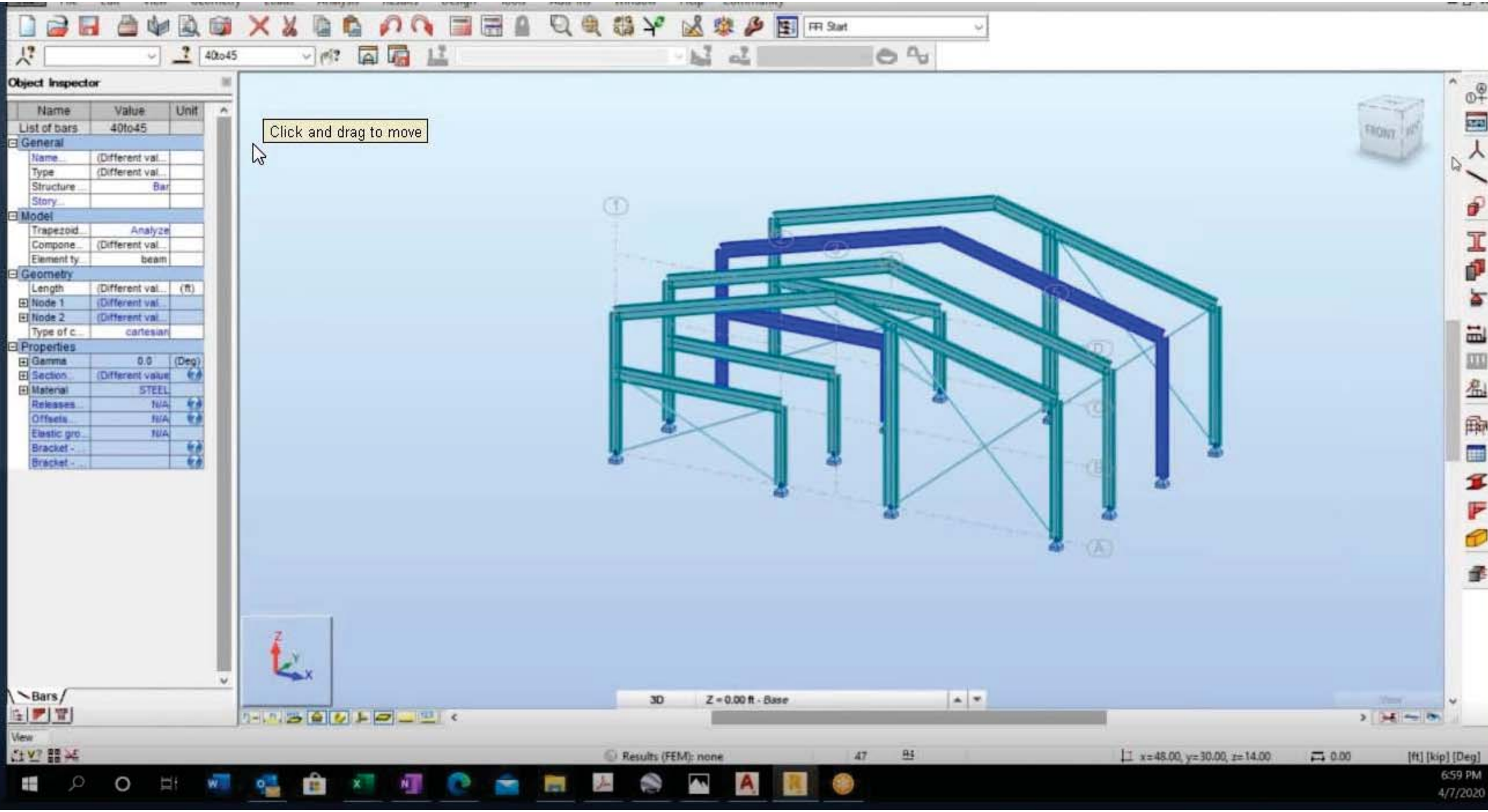
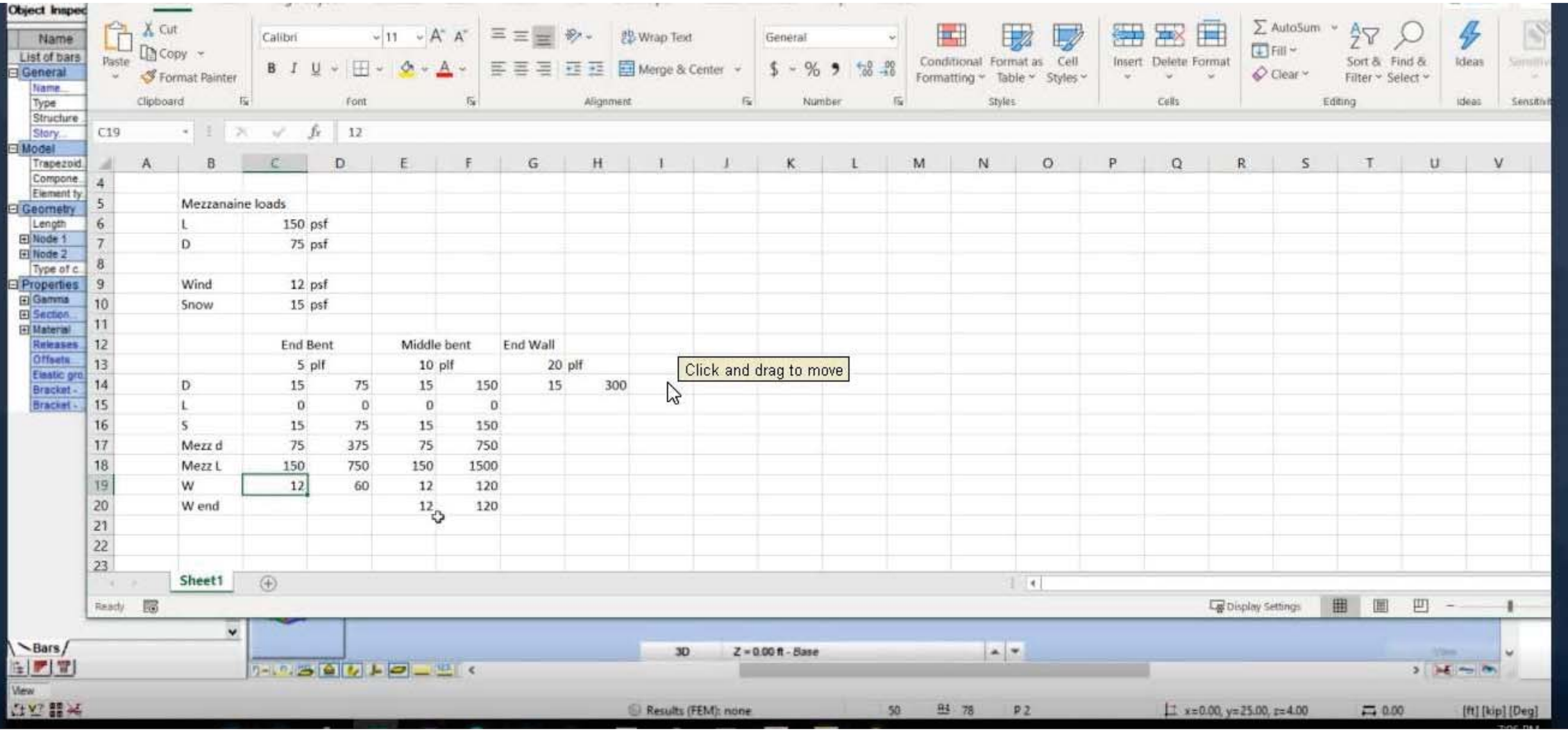
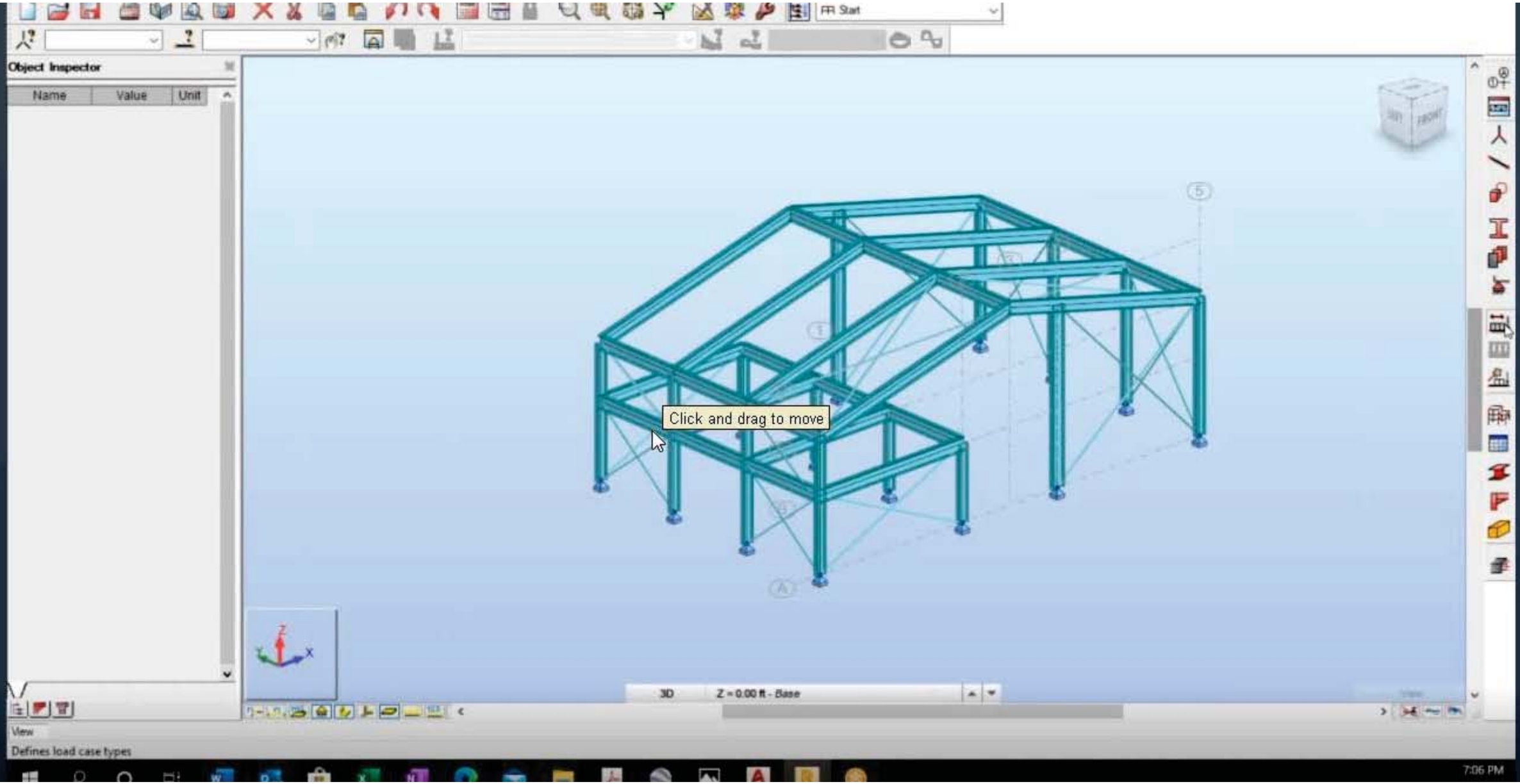
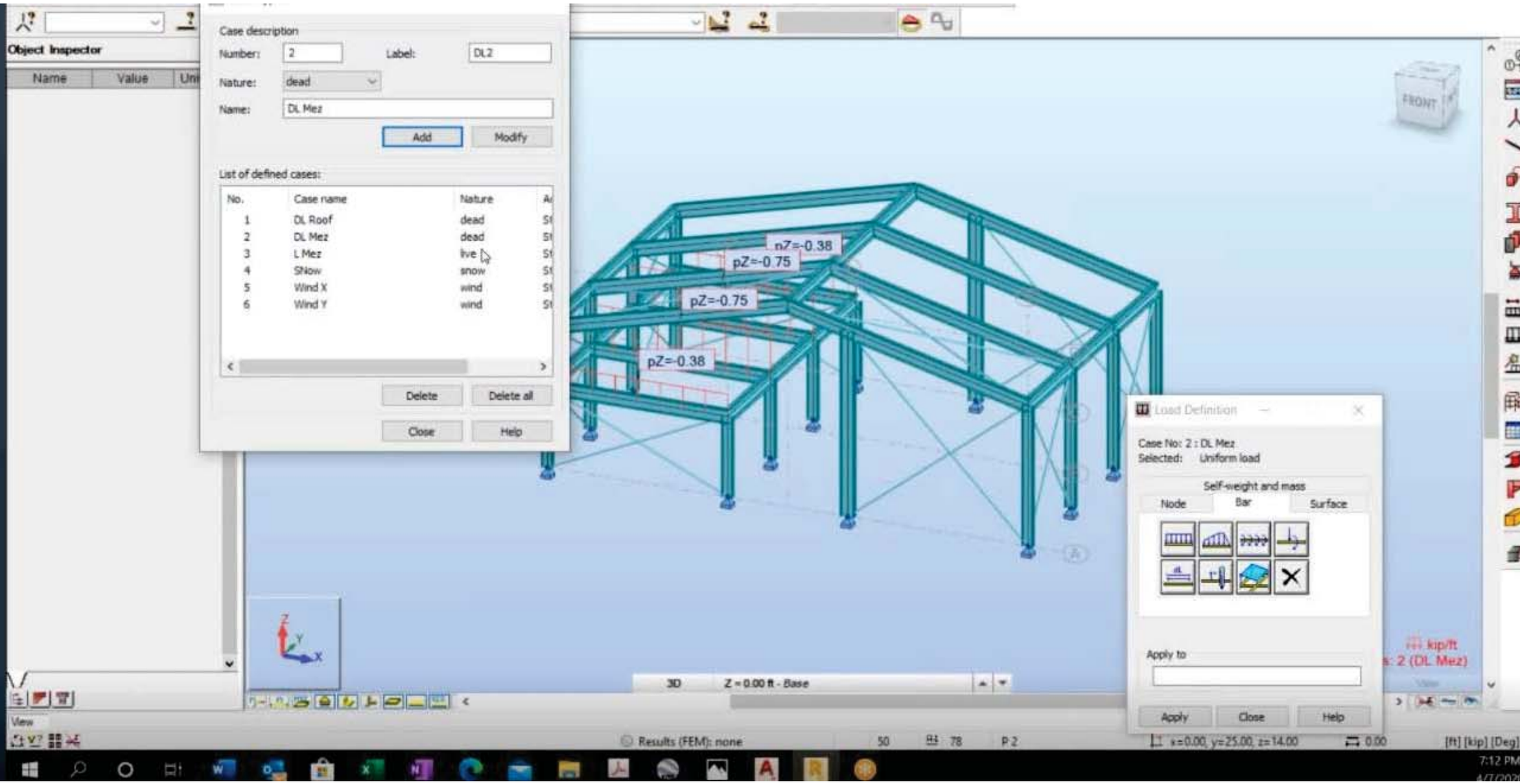
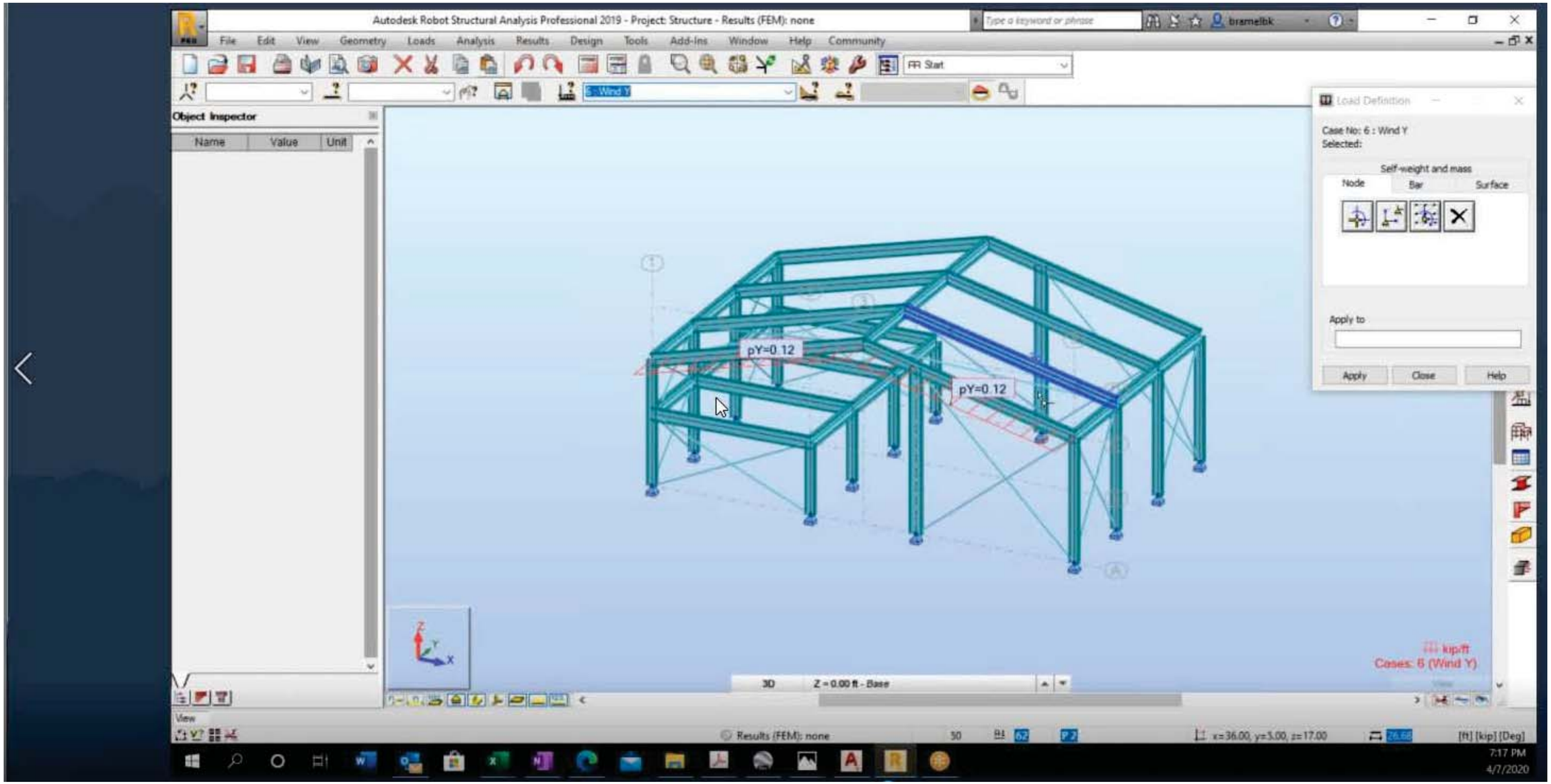
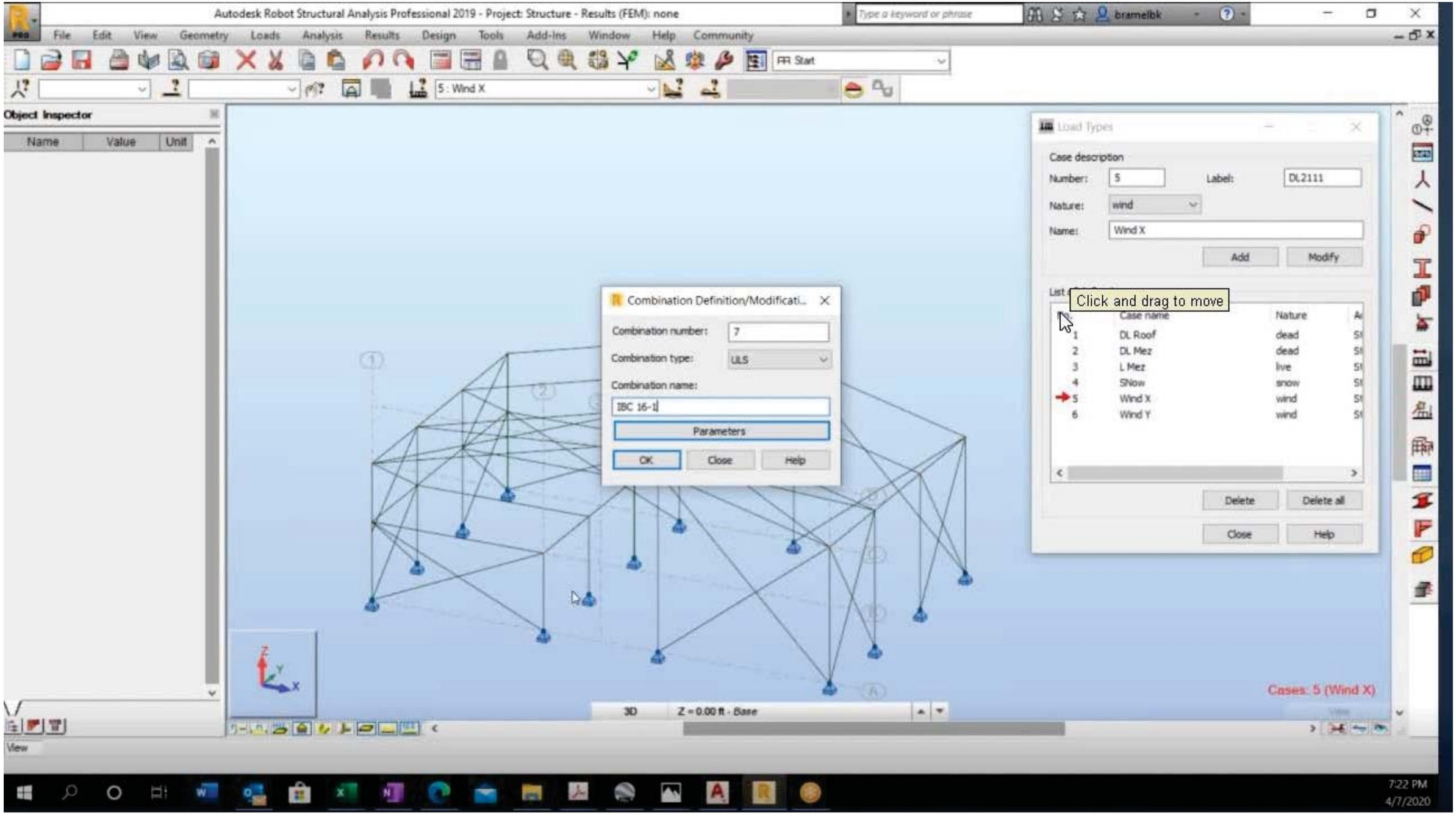

Object Inspector
Name
Value
Unit
List of bars
40to45
General
Name...
(Different val...
Type
(Different val...
Structure ...
Bar
Story...
Model
Trapezoid...
Analyze
Compone...
(Different val...
Element ty...
beam
Geometry
Length
(Different val...
(ft)
Node 1
(Different val...
Node 2
(Different val...
Type of c...
cartesian
Properties
Gamma
0.0
(Deg)
Section
(Different value
Material
STEEL
Releases...
N/A
Offsets...
N/A
Elastic gro...
N/A
Bracket -
Bracket -
Click and drag to move
FRONT
Z
Y
X
3D
Z = 0.00 ft - Base
Bars
View
Results (FEM): none
47
x=48.00, y=30.00, z=14.00
0.00
[ft] [kip] [Deg]
6:59 PM
4/7/2020

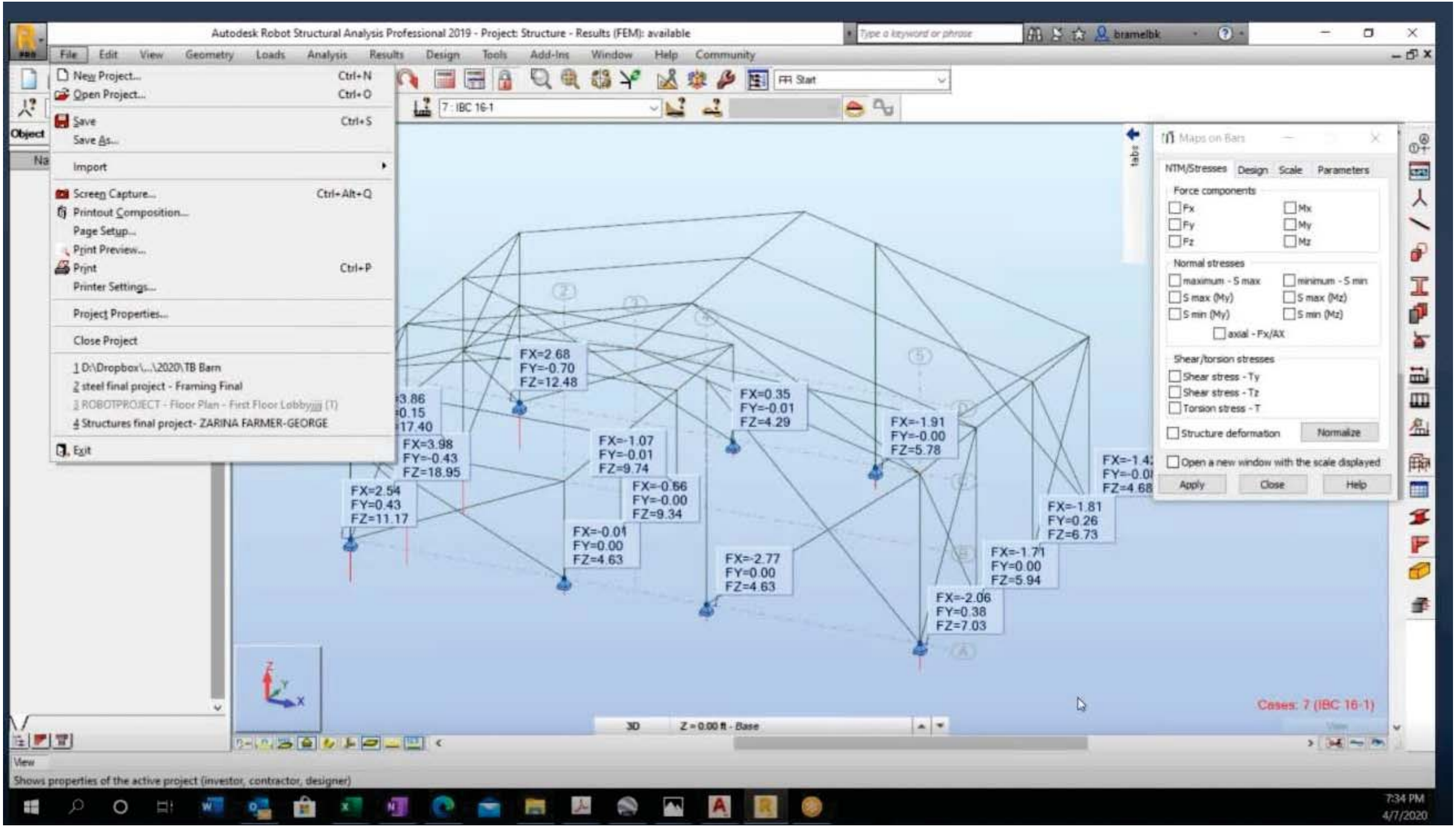

Object Inspec
Name
List of bars
General
Name...
Type
Structure
Story...
Model
Trapezoid
Compone...
Element ty
Geometry
Length
Node 1
Node 2
Type of c
Properties
Gamma
Section...
Material
Releases
Offsets
Elastic gro
Bracket -
Bracket -
Cut
Copy
Format Painter
Paste
Clipboard
Calibri
11
Font
Wrap Text
Merge & Center
Alignment
General
Number
Conditional Formatting
Format as Table
Cell Styles
Styles
Insert
Delete
Format
Cells
AutoSum
Fill
Clear
Sort & Filter
Find & Select
Editing
Ideas
C19
12
Mezzanaine loads
L 150 psf
D 75 psf
Wind 12 psf
Snow 15 psf
End Bent
Middle bent
End Wall
5 plf
10 plf
20 plf
D 15 75 15 150 15 300
L 0 0 0 0
S 15 75 15 150
Mezz d 75 375 75 750
Mezz L 150 750 150 1500
W 12 60 12 120
W end 12 120
Click and drag to move
Sheet1
Ready
Display Settings
Bars
3D
Z = 0.00 ft - Base
View
Results (FEM): none
50
78
P 2
x=0.00, y=25.00, z=4.00
0.00
[ft] [kip] [Deg]

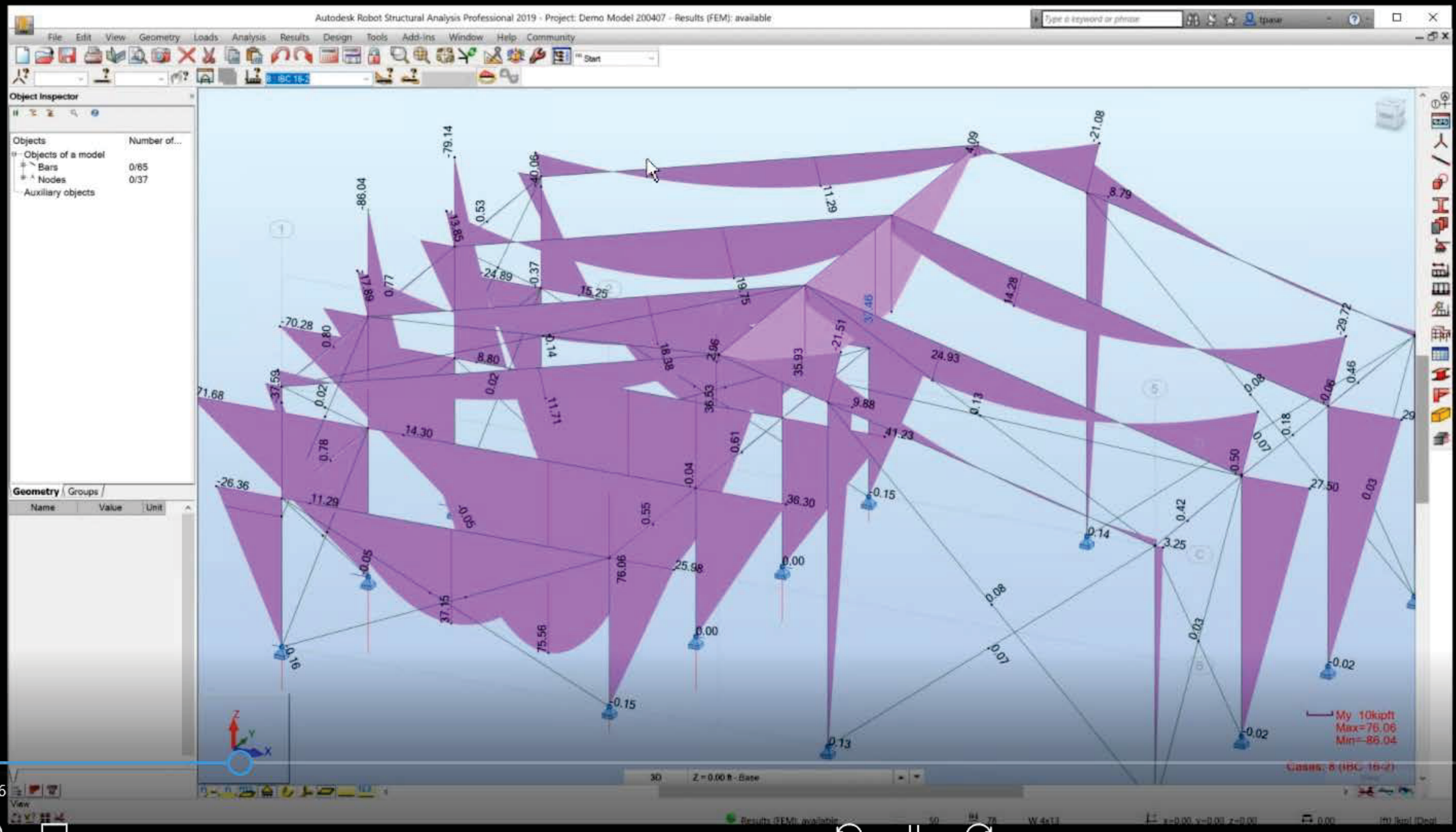

Object Inspector
Name
Value
Unit
Click and drag to move
3D
Z = 0.00 ft - Base
View
Defines load case types
7:06 PM

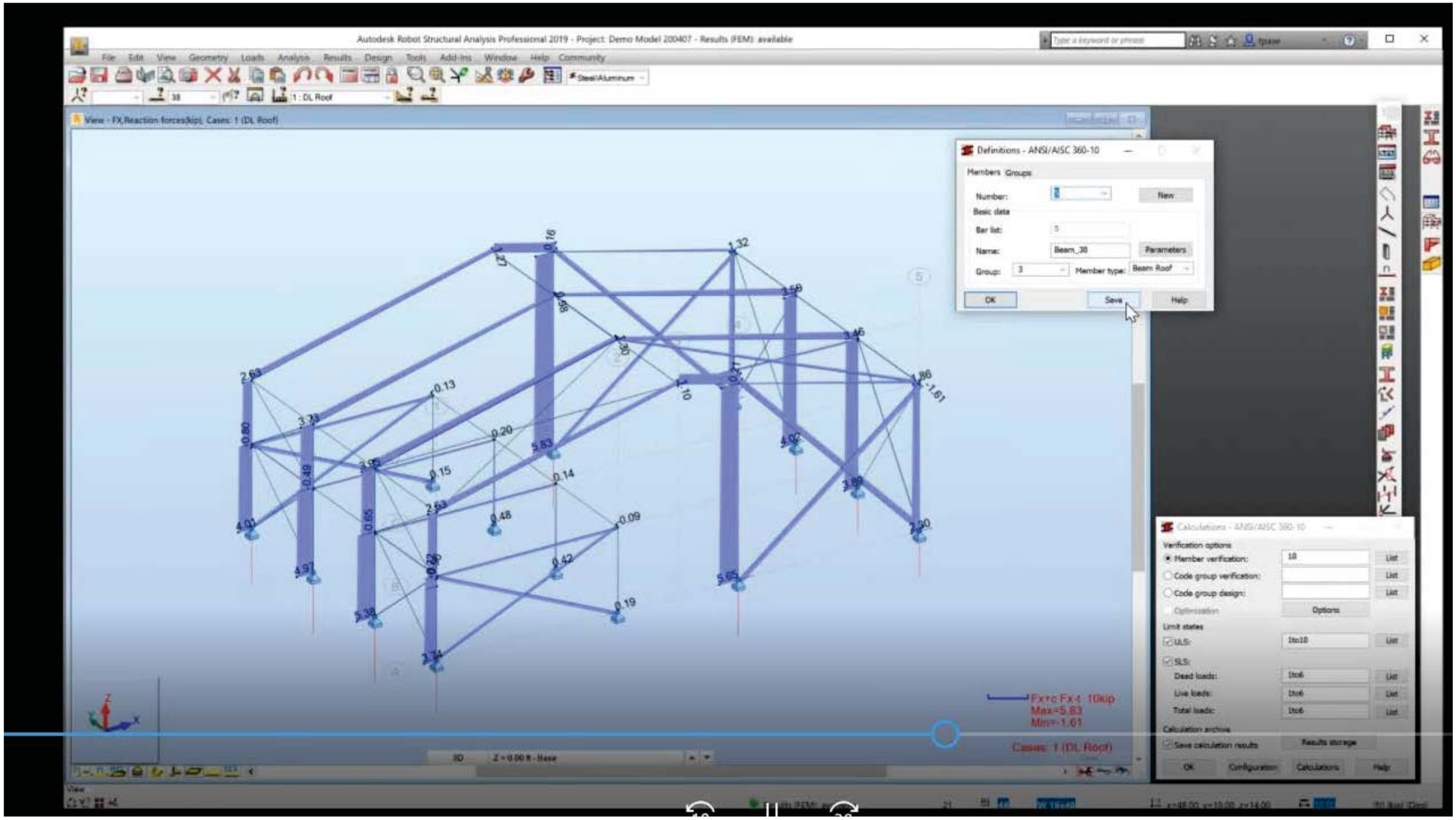

Object Inspector
Name
Value
Case description
Number:
2
Label:
DL2
Nature:
dead
Name:
DL Mez
Add
Modify
List of defined cases:
No.
Case name
Nature
1 DL Roof dead
2 DL Mez dead
3 L Mez live
4 Show snow
5 Wind X wind
6 Wind Y wind
Delete
Delete all
Close
Help
pZ=-0.38
pZ=-0.75
pZ=-0.75
pZ=-0.38
FRONT
Load Definition
Case No: 2 : DL Mez
Selected: Uniform load
Self-weight and mass
Node
Bar
Surface
Apply to
Apply
Close
Help
kip/ft
2 (DL Mez)
3D
Z = 0.00 ft - Base
Results (FEM): none
P 2
[ft] [kip] [Deg]
7:12 PM


Autodesk Robot Structural Analysis Professional 2019 - Project: Structure - Results (FEM): none
File Edit View Geometry Loads Analysis Results Design Tools Add-ins Window Help Community
FR Start
6 : Wind Y
Object Inspector
Name Value Unit
pY=0.12
pY=0.12
Load Definition
Case No: 6 : Wind Y
Selected:
Self-weight and mass
Node Bar Surface
Apply to
Apply Close Help
kip/ft
Cases: 6 (Wind Y)
3D
Z = 0.00 ft - Base
View
Results (FEM): none
x=36.00, y=3.00, z=17.00
[ft] [kip] [Deg]
7:17 PM
4/7/2020


Autodesk Robot Structural Analysis Professional 2019 - Project: Structure - Results (FEM): none
File Edit View Geometry Loads Analysis Results Design Tools Add-Ins Window Help Community
FR Start
5 : Wind X
Object Inspector
Name Value Unit
Combination Definition/Modificati...
Combination number: 7
Combination type: ULS
Combination name:
IBC 16-1
Parameters
OK Close Help
Load Types
Case description
Number: 5
Label: DL2111
Nature: wind
Name: Wind X
Add Modify
Click and drag to move
Case name Nature
1 DL Roof dead
2 DL Mez dead
3 L Mez live
4 SNow snow
5 Wind X wind
6 Wind Y wind
Delete Delete all
Close Help
3D
Z = 0.00 ft - Base
Cases: 5 (Wind X)
View
7:22 PM
4/7/2020


Autodesk Robot Structural Analysis Professional 2019 - Project: Structure - Results (FEM): available
File Edit View Geometry Loads Analysis Results Design Tools Add-Ins Window Help Community
New Project... Ctrl+N
Open Project... Ctrl+O
Save Ctrl+S
Save As...
Import
Screen Capture... Ctrl+Alt+Q
Printout Composition...
Page Setup...
Print Preview...
Print Ctrl+P
Printer Settings...
Project Properties...
Close Project
1 D:\Dropbox\...\2020\TB Barn
2 steel final project - Framing Final
3 ROBOTPROJECT - Floor Plan - First Floor Lobby.rtd (T)
4 Structures final project- ZARINA FARMER-GEORGE
Exit
7 : IBC 16-1
Maps on Bars
NTM/Stresses Design Scale Parameters
Force components
Fx Mx
Fy My
Fz Mz
Normal stresses
maximum - S max minimum - S min
S max (My) S max (Mz)
S min (My) S min (Mz)
axial - Fx/AX
Shear/torsion stresses
Shear stress - Ty
Shear stress - Tz
Torsion stress - T
Structure deformation
Normalize
Open a new window with the scale displayed
Apply
Close
Help
FX=2.68
FY=-0.70
FZ=12.48
FX=0.35
FY=-0.01
FZ=4.29
FX=-1.91
FY=-0.00
FZ=5.78
FX=3.98
FY=-0.43
FZ=18.95
FX=-1.07
FY=-0.01
FZ=9.74
FX=2.54
FY=0.43
FZ=11.17
FX=-0.66
FY=-0.00
FZ=9.34
FX=-0.01
FY=0.00
FZ=4.63
FX=-2.77
FY=0.00
FZ=4.63
FX=-1.81
FY=0.26
FZ=6.73
FX=-1.71
FY=0.00
FZ=5.94
FX=-2.06
FY=0.38
FZ=7.03
Cases: 7 (IBC 16-1)
3D
Z = 0.00 ft - Base
Shows properties of the active project (investor, contractor, designer)
7:34 PM
4/7/2020


Autodesk Robot Structural Analysis Professional 2019 - Project: Demo Model 200407 - Results (FEM): available
File Edit View Geometry Loads Analysis Results Design Tools Add-ins Window Help Community
Object Inspector
Objects
Number of...
Objects of a model
Bars 0/65
Nodes 0/37
Auxiliary objects
Geometry Groups
Name Value Unit
My 10kipft
Max=76.06
Min=-86.04
0:19:26
10
30


Autodesk Robot Structural Analysis Professional 2019 - Project: Demo Model 200407 - Results (FEM): available
File Edit View Geometry Loads Analysis Results Design Tools Add-Ins Window Help Community
View - FX,Reaction forces(kip), Cases: 1 (DL Roof)
Definitions - ANSI/AISC 360-10
Members Groups
Number:
New
Basic data
Bar list:
Name: Beam_38
Parameters
Group: 3
Member type: Beam Roof
OK
Save
Help
Calculations - ANSI/AISC 360-10
Verification options
Member verification:
Code group verification:
Code group design:
Optimization
Options
Limit states
ULS:
SLS:
Dead loads:
Live loads:
Total loads:
Calculation archive
Save calculation results
Results storage
OK
Configuration
Calculators
Help
Fx+c Fx-t 10kip
Max=5.83
Min=-1.61
Cases: 1 (DL Roof)