

2.2 ENTORNO BIM



1. CREAR NUEVO PROYECTO

Sign in



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Sort by: Last used



Quit ARCHICAD

2. PARA SALIR DEL PROGRAMA



Open Selected

The image shows the ARCHICAD software interface. At the top, there is a menu bar with options: ARCHICAD, File, Edit, View, Design, Document, Options, Teamwork, Window, and Help. Below the menu bar is a toolbar with various icons for drawing and editing. The main workspace is divided into several panels: Main, Layer, Geometry Method, Reference Line Location, Structure, Floor Plan and Section, Linked Stories, and Bottom and Top. The main workspace contains a drawing of a wall with a blue line and a red line. The text "1. BARRA DE MENUS" is overlaid on the drawing. The right side of the interface features a tree view showing the project structure, including folders for "A.01 Floor Plans" and "A.02 Elevations". The bottom status bar shows the current view (02 Drafting), scale (1:100), and other settings.

The screenshot displays the ARCHICAD software interface. At the top, the menu bar includes 'ARCHICAD', 'File', 'Edit', 'View', 'Design', 'Document', 'Options', 'Teamwork', 'Window', and 'Help'. The toolbar below contains various drawing and editing tools. The settings panel at the top right includes sections for 'Main', 'Layer' (set to 'Structural - Bearing'), 'Geometry Method', 'Reference Line Location' (set to 'Core Outside'), 'Structure' (set to 'Generic Wall/S...'), 'Floor Plan and Section' (set to 'Floor Plan and Section...'), 'Linked Stories' (showing '1. Story (Home + 1)' and '0. Ground Floor (C...)'), and 'Bottom and Top' (set to '3000' and '0'). The central drawing area shows a 2D wall with a horizontal line and two vertical lines, with a small 'x' mark indicating a node. The tree view on the right shows a hierarchy of elements: 'Untitled', 'Sheet Index', 'A.01 Floor Plans' (with sub-items for Ground Floor, 1. Story, and 2. Story), 'A.02 Elevations' (with sub-items for North, East, South, and West elevations), and 'Masters' (with sub-items for A4 Portrait, A3 Landscape, A2 Landscape, and A1 Landscape). The status bar at the bottom shows 'Enter First Node of Wall.' and 'GRAPHISOFT ID'.

2. VENTANA DE ARCHICAD

The screenshot displays the ARCHICAD software interface. The main window shows a 2D elevation view of a wall. A blue title bar is being drawn across the top of the wall. The interface includes a top menu bar (ARCHICAD, File, Edit, View, Design, Document, Options, Teamwork, Window, Help), a toolbar with various drawing tools, and a properties panel on the right. The properties panel shows the current selection as 'No Selection'. The bottom status bar indicates the current view is '02 Drafting' and the scale is '1:100'. The text '3. BARRA DE TITULO' is overlaid on the drawing area in blue.

The image shows the ARCHICAD software interface. At the top, there is a menu bar with options: ARCHICAD, File, Edit, View, Design, Document, Options, Teamwork, Window, Help. Below the menu bar is a toolbar with various icons for drawing and editing. The main workspace is divided into several panels: Main, Layer, Geometry Method, Reference Line Location, Structure, Floor Plan and Section, Linked Stories, and Bottom and Top. The main workspace is currently showing a 3D view of a wall structure. On the left side, there is a vertical toolbar with icons for different design tools. On the right side, there is a tree view showing the project structure, including folders for A.01 Floor Plans and A.02 Elevations. At the bottom, there is a status bar with various settings and a command line.

4. PALETA DE HERRAMIENTAS: ESTÁNDAR

The screenshot displays the ARCHICAD software interface. At the top, the menu bar includes 'ARCHICAD', 'File', 'Edit', 'View', 'Design', 'Document', 'Options', 'Teamwork', 'Window', and 'Help'. The status bar shows system information like 'MEM 53%', '65%' battery, and the date 'Dom 10:19 p.m.'. The main toolbar contains various drawing and editing tools. Below the toolbar, a series of panels provide settings for 'Main', 'Layer' (set to 'Structural - Bearing'), 'Geometry Method', 'Reference Line Location' (set to 'Core Outside'), 'Structure' (set to 'Generic Wall/S...'), 'Floor Plan and Section' (set to 'Floor Plan and Section...'), 'Linked Stories' (listing '1. Story (Home + 1)' and '0. Ground Floor (C...)'), and 'Bottom and Top' (with values '3000' and '0').

The central workspace shows a drawing of a wall with a horizontal reference line and vertical alignment lines. A red box highlights the information palette on the right side of the interface. This palette is titled 'Tree by Subset' and shows a hierarchical tree structure:

- Untitled
 - Sheet Index
 - A.01 Floor Plans
 - A.01.1 Ground Floor
 - A.01.2 1. Story
 - A.01.3 2. Story
 - A.02 Elevations
 - A.02.1 E-01 North Ele
 - A.02.2 E-02 East Elev
 - A.02.3 E-03 South El
 - A.02.4 E-04 West Ele
 - Masters
 - A4 Portrait
 - A3 Landscape
 - A2 Landscape
 - A1 Landscape

Below the tree, the 'Properties' section shows 'No Selection.' The bottom status bar includes a 'Viewpoi' section with zoom and rotation controls, and a command line that reads 'Enter First Node of Wall.' The bottom right corner features the 'GRAPHISOFT ID' logo and the text 'INTERFAZ DE TRABAJO'.

ARCHICAD File Edit View Design Document Options Teamwork Window Help

Untitled

Main: Layer: Structural - Bearing Geometry Method: Reference Line Location: Core Outside Structure: Generic Wall/S... Floor Plan and Section: Floor Plan and Section... Linked Stories: 1. Story (Home + 1) 0. Ground Floor (C... Bottom and Top: 3000 0

[0. Ground Floor] [3D / All] [South Elevation]

6. PALETA DE HERRAMIENTAS

Design

Viewpoi

Docume 22% 0° 1:100 02 Drafting Entire Model 03 Architect... 03 Building... No Overrides 00 Show All...

Enter First Node of Wall.

GRAPHISOFT ID

ARCHICAD File Edit View Design Document Options Teamwork Window Help

MEM 53% 65% Dom 10:19 p. m.

Untitled

Main: Layer: Geometry Method: Reference Line Location: Structure: Floor Plan and Section: Linked Stories: Bottom and Top:

Default Settings Structural - Bearing Core Outside Generic Wall/S... Floor Plan and Section... 1. Story (Home + 1) 0. Ground Floor (C... 3000 0

[0. Ground Floor] [3D / All] [South Elevation]

7. ÁREA DE DIBUJO / MODELADO / VISTAS

Design

Viewpoi

Docume 22% 0° 1:100 02 Drafting Entire Model 03 Architect... 03 Building... No Overrides 00 Show All...

Enter First Node of Wall.

GRAPHISOFT ID

Tree by Subset

- Untitled
 - Sheet Index
 - A.01 Floor Plans
 - A.01.1 Ground Floor
 - A.01.2 1. Story
 - A.01.3 2. Story
 - A.02 Elevations
 - A.02.1 E-01 North Ele
 - A.02.2 E-02 East Elev
 - A.02.3 E-03 South El
 - A.02.4 E-04 West Ele
 - Masters
 - A4 Portrait
 - A3 Landscape
 - A2 Landscape
 - A1 Landscape

Properties

No Selection.

The screenshot displays the ARCHICAD software interface. At the top, the menu bar includes 'ARCHICAD', 'File', 'Edit', 'View', 'Design', 'Document', 'Options', 'Teamwork', 'Window', and 'Help'. The system tray shows the date and time as 'Dom 10:19 p. m.' and a battery level of 65%. The main toolbar contains various drawing and editing tools. Below the toolbar, the ribbon is divided into several sections: 'Main' (Default Settings), 'Layer' (Structural - Bearing), 'Geometry Method', 'Reference Line Location' (Core Outside), 'Structure' (Generic Wall/S...), 'Floor Plan and Section' (Floor Plan and Section...), 'Linked Stories' (1. Story (Home + 1), 0. Ground Floor (C...)), and 'Bottom and Top' (3000, 0). The ribbon is highlighted with a red box. The main workspace shows a 3D view of a wall with blue lines and a red 'x' mark. The left sidebar contains a 'Design' toolbar and a 'Viewpoint' toolbar. The right sidebar features a 'Tree by Subset' panel with a hierarchical tree structure: 'Untitled' (Sheet Index, A.01 Floor Plans (A.01.1 Ground Floor, A.01.2 1. Story, A.01.3 2. Story), A.02 Elevations (A.02.1 E-01 North Ele, A.02.2 E-02 East Elev, A.02.3 E-03 South El, A.02.4 E-04 West Ele), Masters (A4 Portrait, A3 Landscape, A2 Landscape, A1 Landscape)). Below the tree is a 'Properties' panel showing 'No Selection.' The bottom status bar includes a 'Viewpoint' toolbar, a 'Docume' toolbar, and a status line that reads 'Enter First Node of Wall.' The bottom right corner of the interface displays the 'GRAPHISOFT ID' logo.

7.1. Barra de pestañas

The image shows the ARCHICAD software interface. The main window displays a 3D view of a wall structure. The interface includes a menu bar (ARCHICAD File Edit View Design Document Options Teamwork Window Help), a toolbar, and various panels. The right-hand side features a project tree (Navigator) with a red border, showing a hierarchical structure of the project. The tree is expanded to show the following items:

- Untitled
 - Sheet Index
 - A.01 Floor Plans
 - A.01.1 Ground Floor
 - A.01.2 1. Story
 - A.01.3 2. Story
 - A.02 Elevations
 - A.02.1 E-01 North Ele
 - A.02.2 E-02 East Elev
 - A.02.3 E-03 South El
 - A.02.4 E-04 West Ele
 - Masters
 - A4 Portrait
 - A3 Landscape
 - A2 Landscape
 - A1 Landscape

Below the tree is a Properties panel showing "No Selection." The status bar at the bottom indicates "Enter First Node of Wall." The interface is titled "8. NAVEGADOR DESPLEGABLE" in large blue text.

ARCHICAD File Edit View Design Document Options Teamwork Window Help

Untitled

Main: Default Settings Layer: Structural - Bearing Geometry Method: Core Outside Reference Line Location: Core Outside Structure: Generic Wall/S... Floor Plan and Section: Floor Plan and Section... Linked Stories: 1. Story (Home + 1) 0. Ground Floor (C... Bottom and Top: 3000 0

[0. Ground Floor] [3D / All] [South Elevation]

10. BARRA DE ESTADO

Design

Viewpoi

Docume 22% 0° 1:100 02 Drafting Entire Model 03 Architect... 03 Building... No Overrides 00 Show All...

Enter First Node of Wall.

GRAPHISOFT ID

The screenshot shows the ARCHICAD software interface. The 'Options' menu is open, and the 'Working Units...' option is highlighted. The interface includes a top menu bar with 'ARCHICAD', 'File', 'Edit', 'View', 'Design', 'Document', 'Options', 'Teamwork', 'Window', and 'Help'. The main workspace shows a 3D model of a wall with a blue line indicating the first node. The right sidebar contains a 'Tree by Subset' panel with a hierarchical view of the project structure, including 'A.01 Floor Plans' and 'A.02 Elevations'. The bottom status bar shows the current view as '02 Drafting' and '03 Architect...'. The system tray at the top right displays the date and time as 'Dom 10:19 p. m.' and the battery level as '64%'.

ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM



TRAZADO DE PLANOS CON ARCHICAD

APRENDIZAJE GUIADO: PABELLÓN DE DORMITORIOS

El presente ejercicio busca desarrollar paso a paso una edificación pequeña, que permita el empleo de las principales herramientas del ARCHICAD, desde su cimentación hasta la cubierta, estableciendo parámetros de calibración de materiales en su representación bidimensional y tridimensional

DIBUJO DIGITAL

CONSIDERACIONES GENERALES PARA LA REPRESENTACIÓN DIGITAL

Para el desarrollo de este ejercicio es fundamental tener una claridad de la secuencia del proceso constructivo y de los elementos estructurales que conforma una estructura de hormigón armado, bajo la cual se desarrolla el presente ejercicio.

El autor M. Saleh Uddin (2000) cita una serie de pautas que se deben seguir para la adecuada estructuración de una presentación arquitectónica; estas son:

- Composición basada en relaciones entre los dibujos.
- Atención a los dibujos primarios y secundarios.
- Determinación de la jerarquía para fortalecer el énfasis y la claridad.
- Confirmación de la secuencia del contenido del diseño.
- Creación del grado de abstracción.
- Selección de la técnica gráfica.
- Revisión de la normativa municipal para la aprobación de los planos a efectuarse

A su vez es fundamental establecer los siguientes criterios para la expresión gráfica del trazado de planos:

- Dibujos claros y limpios
- Manejo de color (escala de grises)
- Mobiliario simple, comprensible y de menor valor de línea con respecto a la información principal
- Incorporación de texturas en grises con la finalidad de que no resalte con la información principal.

FUNDAMENTOS DE LA REPRESENTACIÓN ARQUITECTÓNICA SE PUEDE CONSULTAR EL SIGUIENTE RECURSO:



DIMENSIONES DE LOS ELEMENTOS CONSTRUCTIVOS

- Cimentación con zapatas aisladas de hormigón armado de 1.00x1.00x0.30m.
- Columnetas de hormigón armado 0.4x0.4m.
- Cadenas de hormigón armado de 0.4x0.4m
- Columnas de hormigón Armado de 0.3x0.3m
- Vigas de confinamiento de hormigón armado de 0.3x0.5m.
- Losa de contrapiso de hormigón armado con recubrimiento cerámico, espesor total 8cm (6cm hormigón armado y 2cm recubrimiento)
- Losa de cubierta de hormigón armado con recubrimiento cerámico, espesor total 30cm (28cm hormigón armado y 2cm recubrimiento) Viga pre-tensada de hormigón armado Doble "T" de 2,40x0.45m
- Mampostería de ladrillo visto e=30cm
- Mampostería de ladrillo visto con recubrimiento de madera e= 20cm (14cm ladrillo y 3cm de recubrimiento por lado)
- Puertas principales 1.00x2.40m
- Puertas para baños 0.70x2.40m
- Ventana de baño 0.50x1.95m
- Muro Cortina con carpinterías trazadas de 1,00 para puerta y otra a 2,10 de altura como tarjetero.

ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM



DIBUJO DIGITAL

01

NIVELES DE LA EDIFICACIÓN

The screenshot shows the software interface with the 'Story Settings' dialog box open. The dialog box contains a table with the following data:

No.	Name	Elevation	Height to Next	
2	CUBIERTA	3,82	3,00	<input checked="" type="checkbox"/>
1	ESTRUCTURA	3,30	0,52	<input checked="" type="checkbox"/>
0	PLANTA BAJA	0,00	3,30	<input checked="" type="checkbox"/>
-1	CIMENTACIÓN	-1,50	1,50	<input checked="" type="checkbox"/>

Below the table are buttons for 'Insert Above', 'Insert Below', and 'Delete Story'. At the bottom of the dialog are 'Cancel' and 'OK' buttons. A red dashed box highlights the 'Stories' section in the Navigator palette on the right, which includes the '0. PLANTA BAJA' level. The Navigator palette also shows other levels like '2. CUBIERTA', '1. ESTRUCTURA', and '-1. CIMENTACIÓN'. The software interface includes a top toolbar, a main workspace, and a bottom status bar with various icons and text.

1. PALETA DEL NAVEGADOR

2. UBICARSE EN PISOS

Click derecho en propiedades

3. PROPIEDADES DE PISO O NIVELES

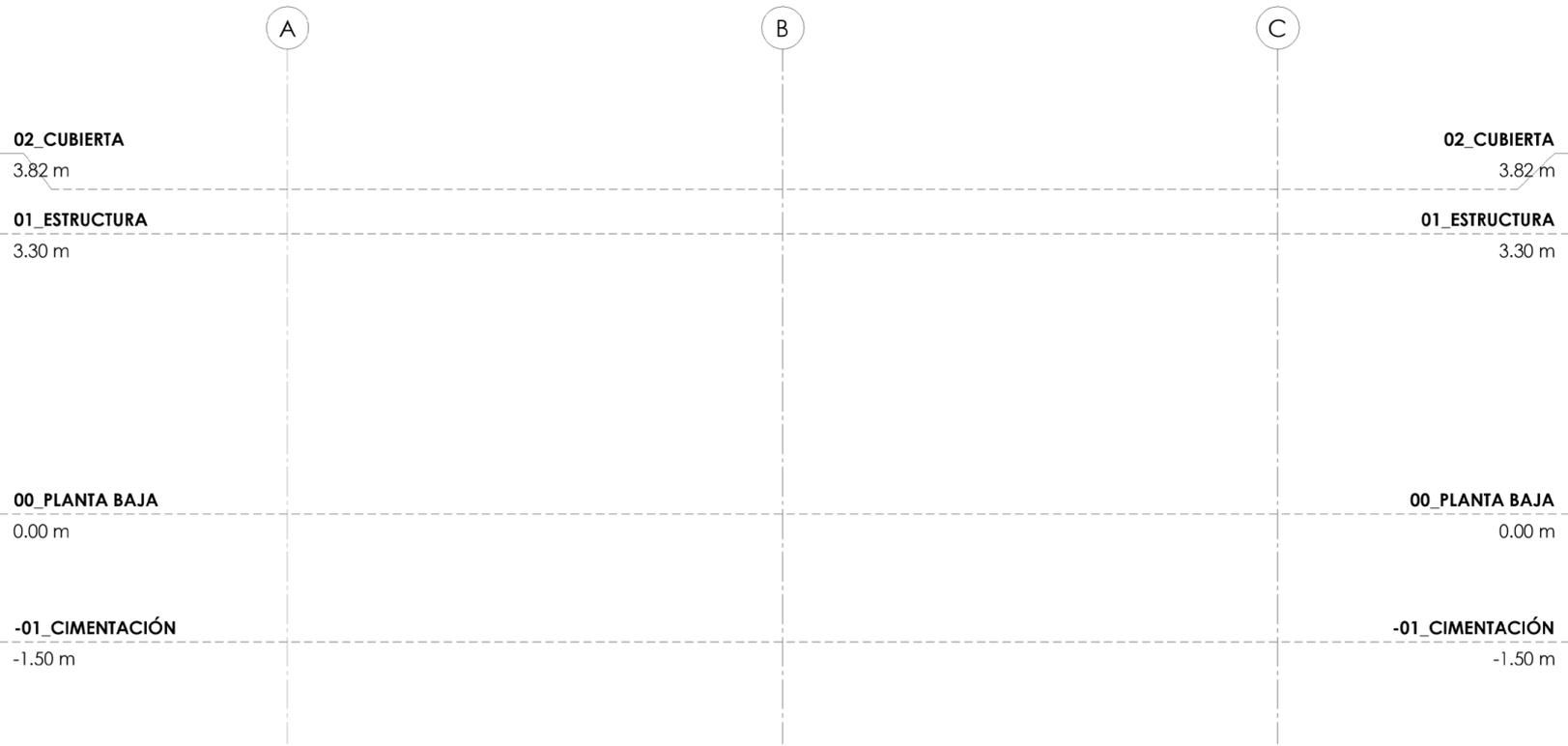
Editar los niveles

ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM

The screenshot shows a BIM software interface. On the left is a project tree with the following structure:

- DIBUJO DIGITAL
 - Stories
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA**
 - 1. CIMENTACIÓN
 - Sections
 - S-01 Building Sect
 - Elevations** (highlighted with a red dashed box)
 - East Elevation (Au** (highlighted with a blue bar)
 - North Elevation (A
 - South Elevation (A
 - West Elevation (A
 - Interior Elevations
 - Worksheets
 - Details
 - 3D Documents
 - 3D
 - Generic Perspectiv
 - Generic Axonomet
 - Schedules
 - Project Indexes
 - Lists
 - Info

At the bottom of the tree are icons for a document, a plus sign, and a red X. Below the tree is a 'Properties' panel with a dropdown menu set to 'East Elevation' and a 'Settings...' button.



REJILLA DE MÓDULA ESTRUCTURAL

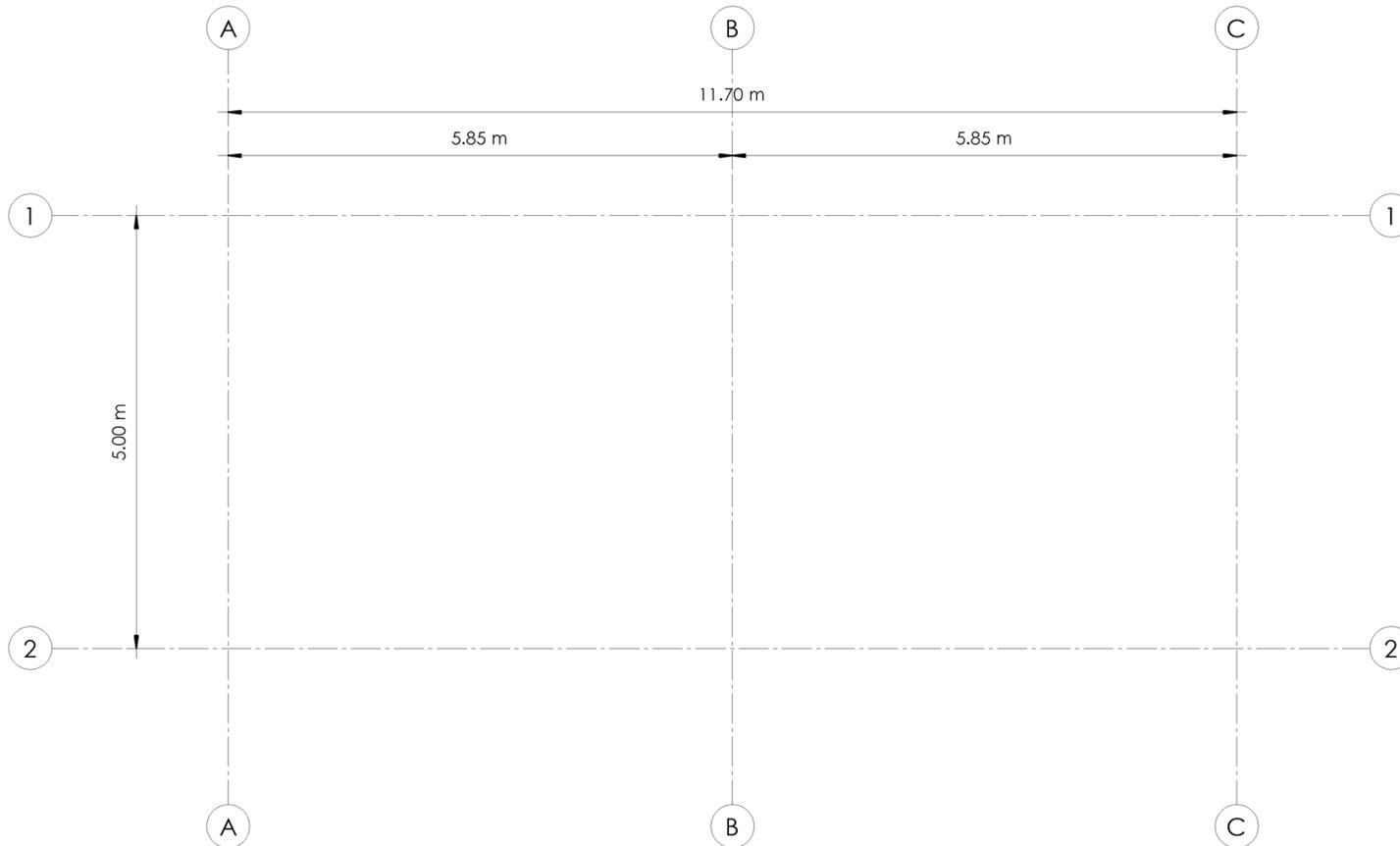
2. COMANDO A UTILIZAR
Rejilla (GR)

1. PALETA DE HERRAMIENTAS
Como primer paso estamos evocados al trazo de la rejilla estructural, que en el caso de nuestro ejercicio es de 5.00x5.85m, el trazo de la misma se efectuara en base a la paleta de herramientas correspondientes a **Arquitectura**

3. MÉTODOS DE TRAZO
Los métodos de trazo de las líneas de rejilla son: por el dibujo simple de líneas y arcos o por la selección de trazos existentes.

- Home
- Folder icons
- ▼ DIBUJO DIGITAL
 - Site
 - ▼ Floor Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA**
 - 1. CIMENTACIÓN
 - ▼ Ceiling Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - ▼ Structural Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - ▼ Sections
 - S-01 Building Sect
 - ▼ Elevations
 - East Elevation

ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM



DIBUJO DIGITAL

03

2. COMANDO A UTILIZAR

Objeto

CIMENTACIÓN. ZAPATAS

1. PALETA DE HERRAMIENTAS

3. OBJETO A UTILIZAR DE LA LIBRERÍA

Aislada (Cimentación)

5. CAMBIAR DIMENSIONES

1.00x1.00x0.30

4. CAMBIAR PROPIEDADES

Editar tipo de elemento

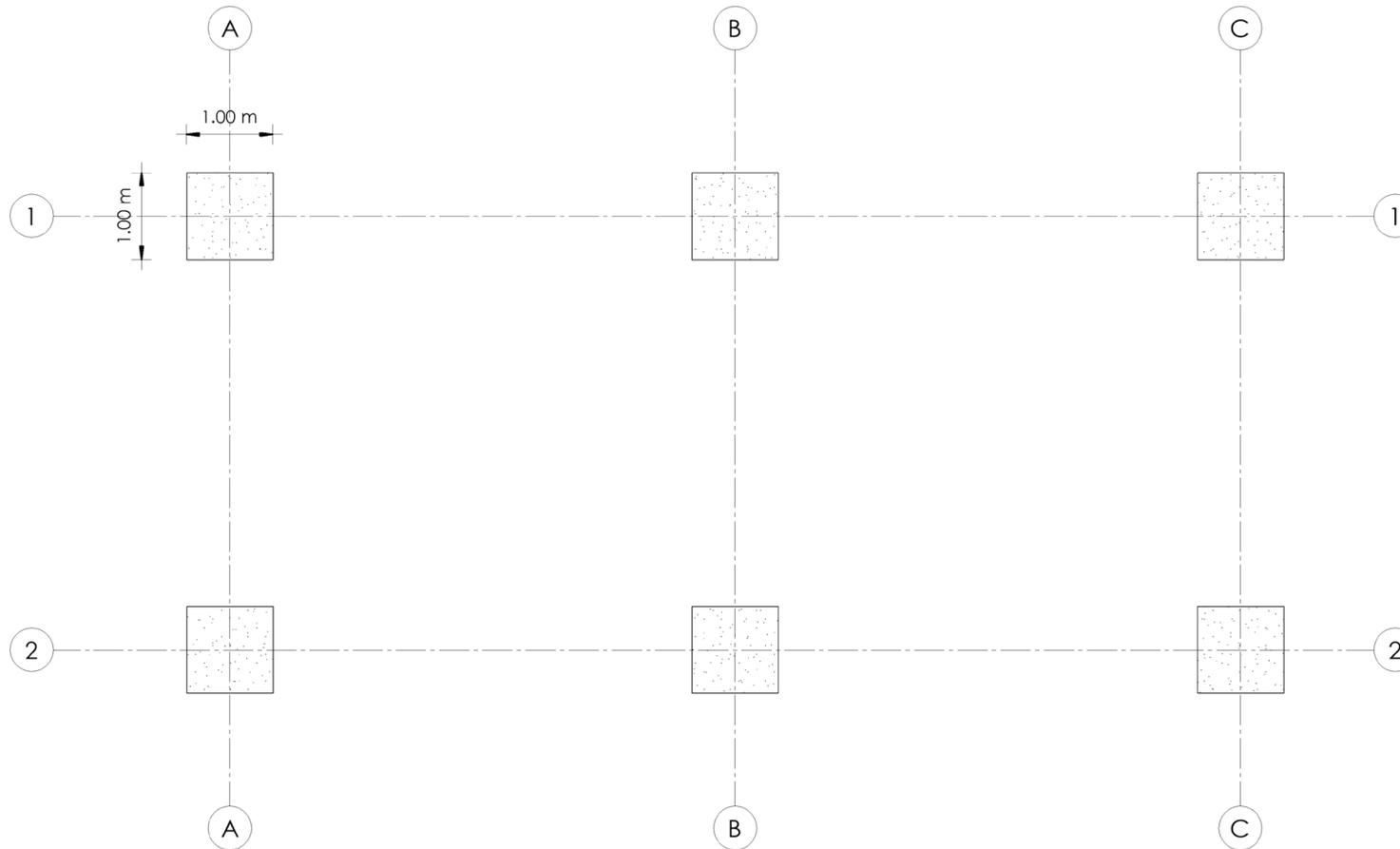
ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM

The screenshot shows a BIM software interface. On the left is a project tree with the following structure:

- DIBUJO DIGITAL
 - Site
 - Floor Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Ceiling Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Structural Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN**
 - Sections
 - S-01 Building Sect
 - Elevations
 - East Elevation

Below the tree is a Properties panel with the following settings:

- Level: -1. CIMENTACIÓN
- Custom: Custom
- Scale: 1:50
- View: 03 Building Plans
- Settings...



DIBUJO DIGITAL

04

2. COMANDO A UTILIZAR

Pilar estructural

3. CAMBIAR PROPIEDADES

Editar tipo de elemento

CIMENTACIÓN. COLUMNETAS

4. CAMBIAR DIMENSIONES

Columneta cuadrada 0.4m

1. PALETA DE HERRAMIENTAS

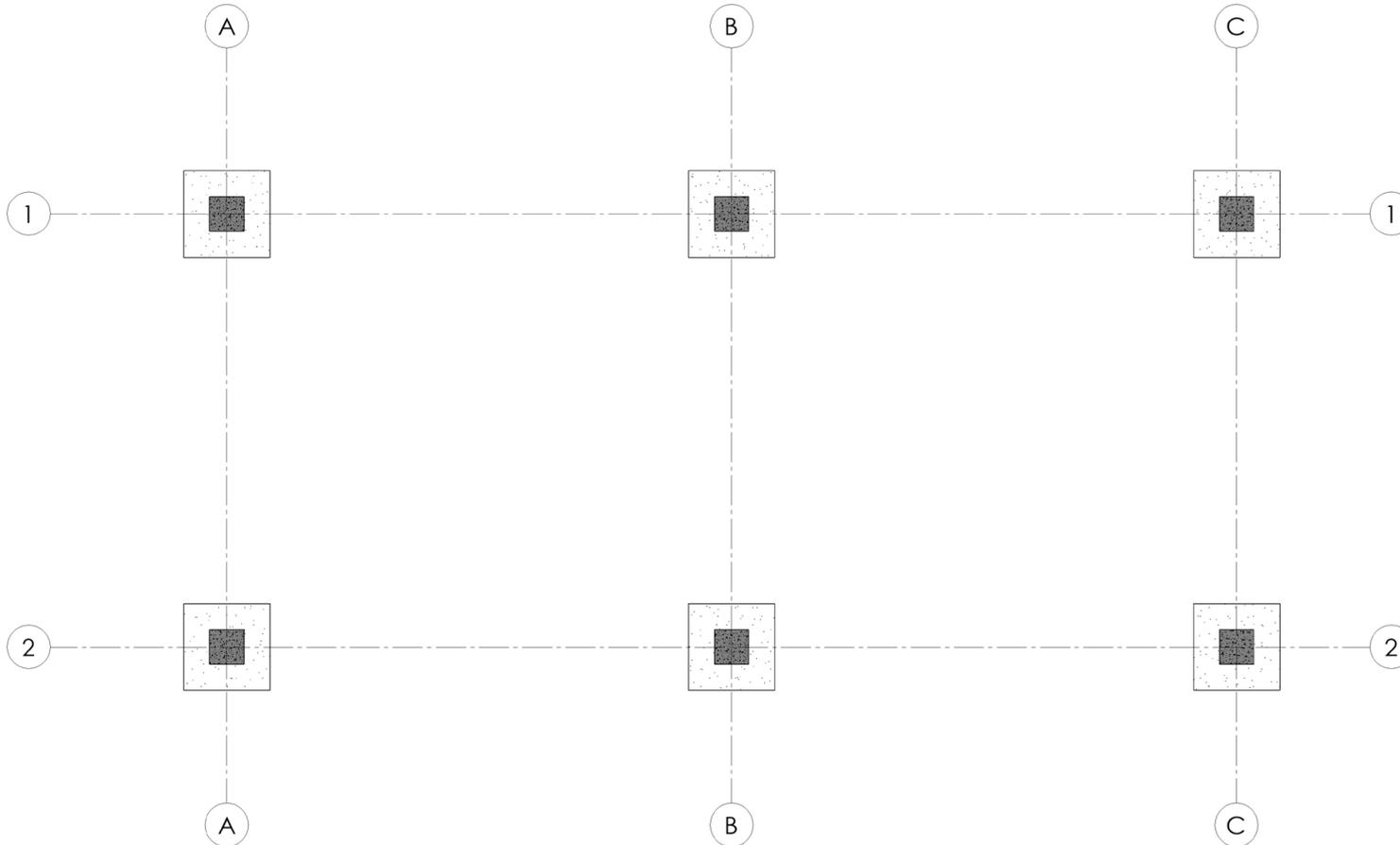
ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM

The screenshot shows a BIM software interface. On the left is a project tree with the following structure:

- DIBUJO DIGITAL
 - Site
 - Floor Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Ceiling Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Structural Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Sections
 - S-01 Building Sect
 - Elevations
 - East Elevation

At the bottom of the tree are icons for adding, deleting, and refreshing. Below the tree is a Properties panel with the following settings:

- Folder: -1. CIMENTACIÓN
- Custom: Custom
- Scale: 1:50
- View: 03 Building Plans
- Settings... button



DIBUJO DIGITAL

05

2. COMANDO A UTILIZAR

Viga

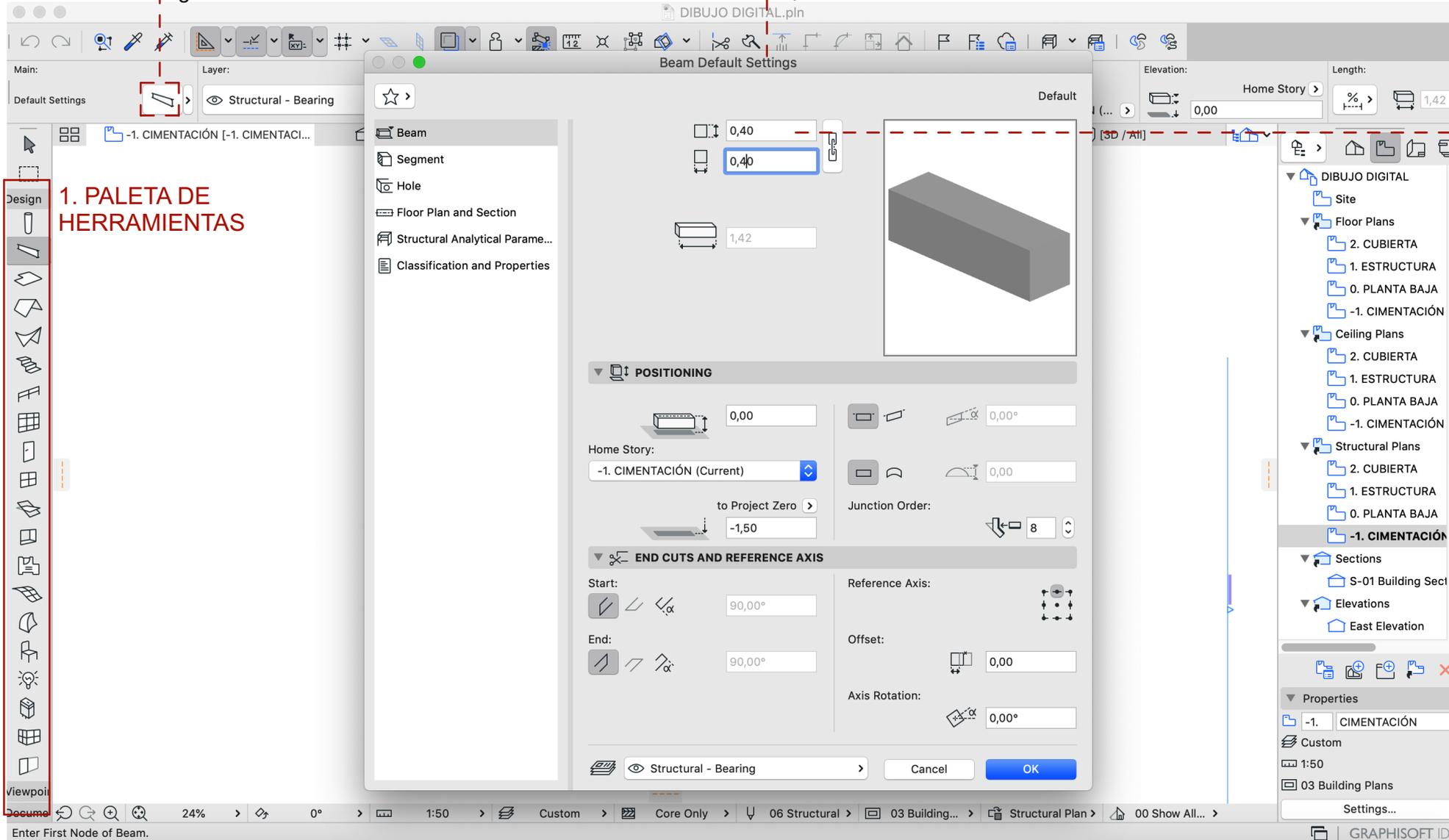
3. CAMBIAR PROPIEDADES

Editar tipo de elemento

CIMENTACIÓN. CADENAS

4. CAMBIAR DIMENSIONES

Cadena cuadrada 0.4x0.4m



1. PALETA DE HERRAMIENTAS



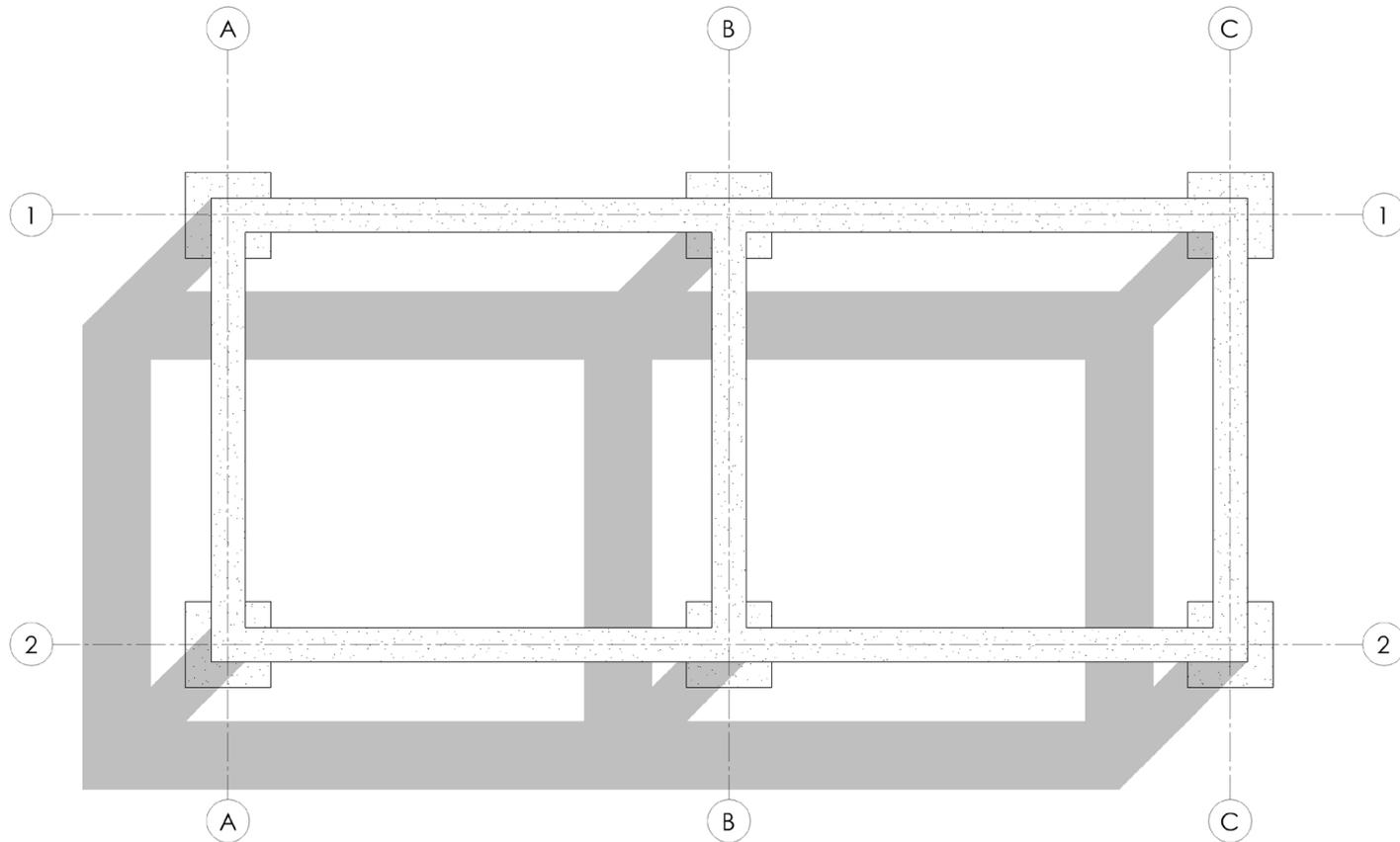
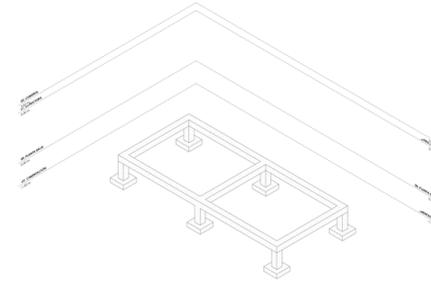
ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM

The screenshot shows a BIM software interface. On the left is a project tree with the following structure:

- DIBUJO DIGITAL
 - Site
 - Floor Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Ceiling Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Structural Plans** (highlighted with a red dashed box)
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA** (highlighted with a red dashed box)
 - 1. CIMENTACIÓN
 - Sections
 - S-01 Building Sect
 - Elevations
 - East Elevation

At the bottom, a Properties panel shows:

- 0. PLANTA BAJA
- Custom
- 1:50
- 03 Building Plans
- Settings...



06

2. COMANDO A UTILIZAR

Pilar estructural

3. CAMBIAR PROPIEDADES

Editar tipo de elemento

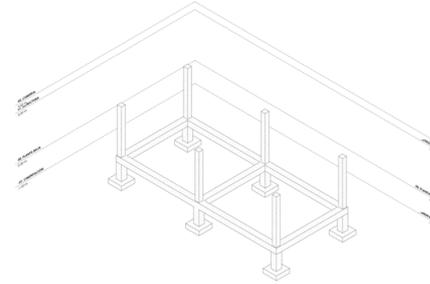
ESTRUCTURA. COLUMNAS

4. CAMBIAR DIMENSIONES

Columna cuadrada 0.3m

1. PALETA DE HERRAMIENTAS

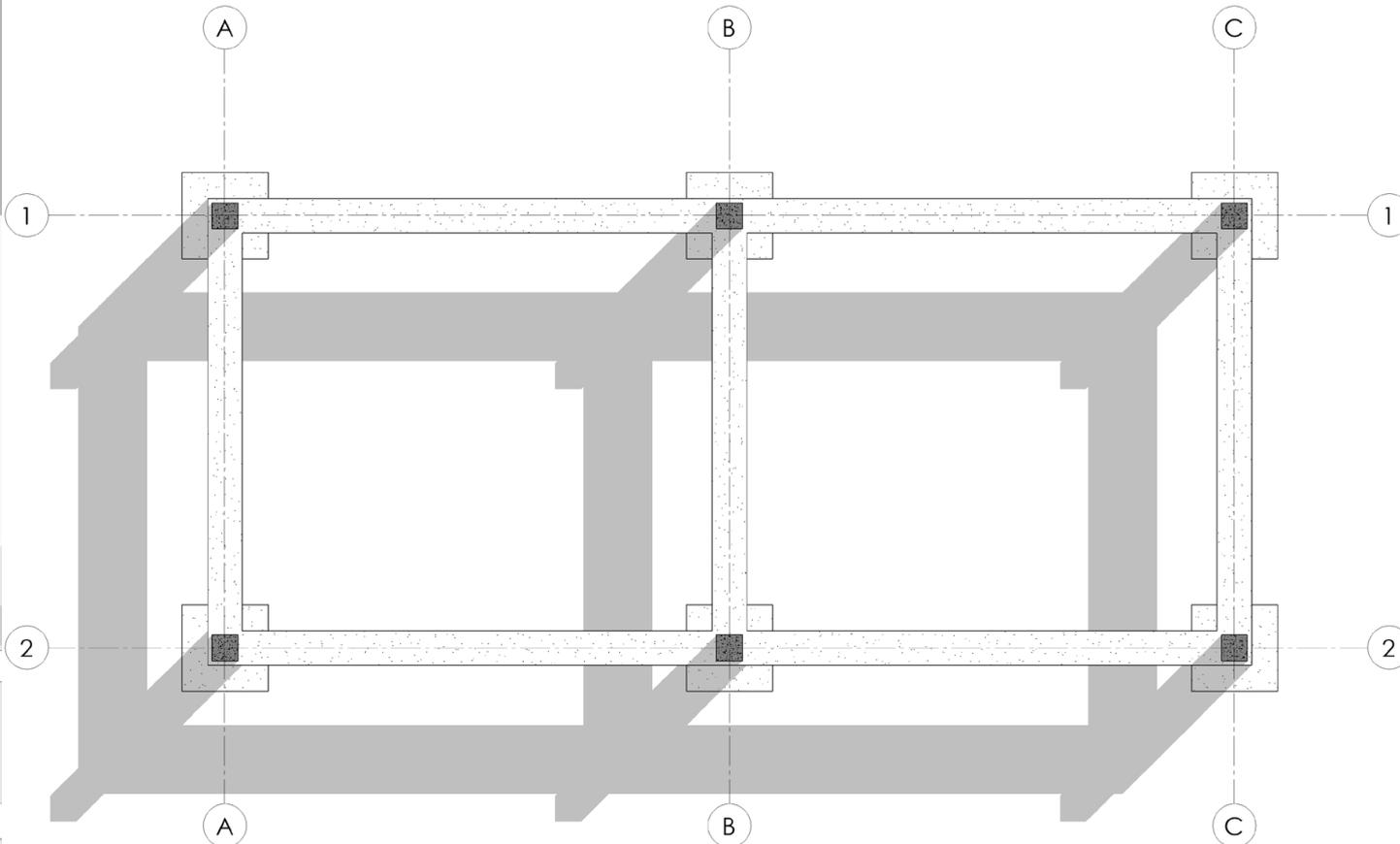
ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM



Navigation icons: Home, Back, Forward, Print, Refresh

- ▼ DIBUJO DIGITAL
 - Site
 - ▼ Floor Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - ▼ Ceiling Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - ▼ **Structural Plans**
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA**
 - 1. CIMENTACIÓN
 - ▼ Sections
 - S-01 Building Sect
 - ▼ Elevations
 - East Elevation

Properties panel:
0. PLANTA BAJA
Custom
1:50
03 Building Plans
Settings...



DIBUJO DIGITAL

07

2. COMANDO A UTILIZAR

Viga

3. CAMBIAR PROPIEDADES

Editar tipo de elemento

ESTRUCTURA. VIGAS SUPERIORES

4. CAMBIAR DIMENSIONES

Viga Superior 0.3x0.5m

1. PALETA DE HERRAMIENTAS

2. COMANDO A UTILIZAR

3. CAMBIAR PROPIEDADES

4. CAMBIAR DIMENSIONES

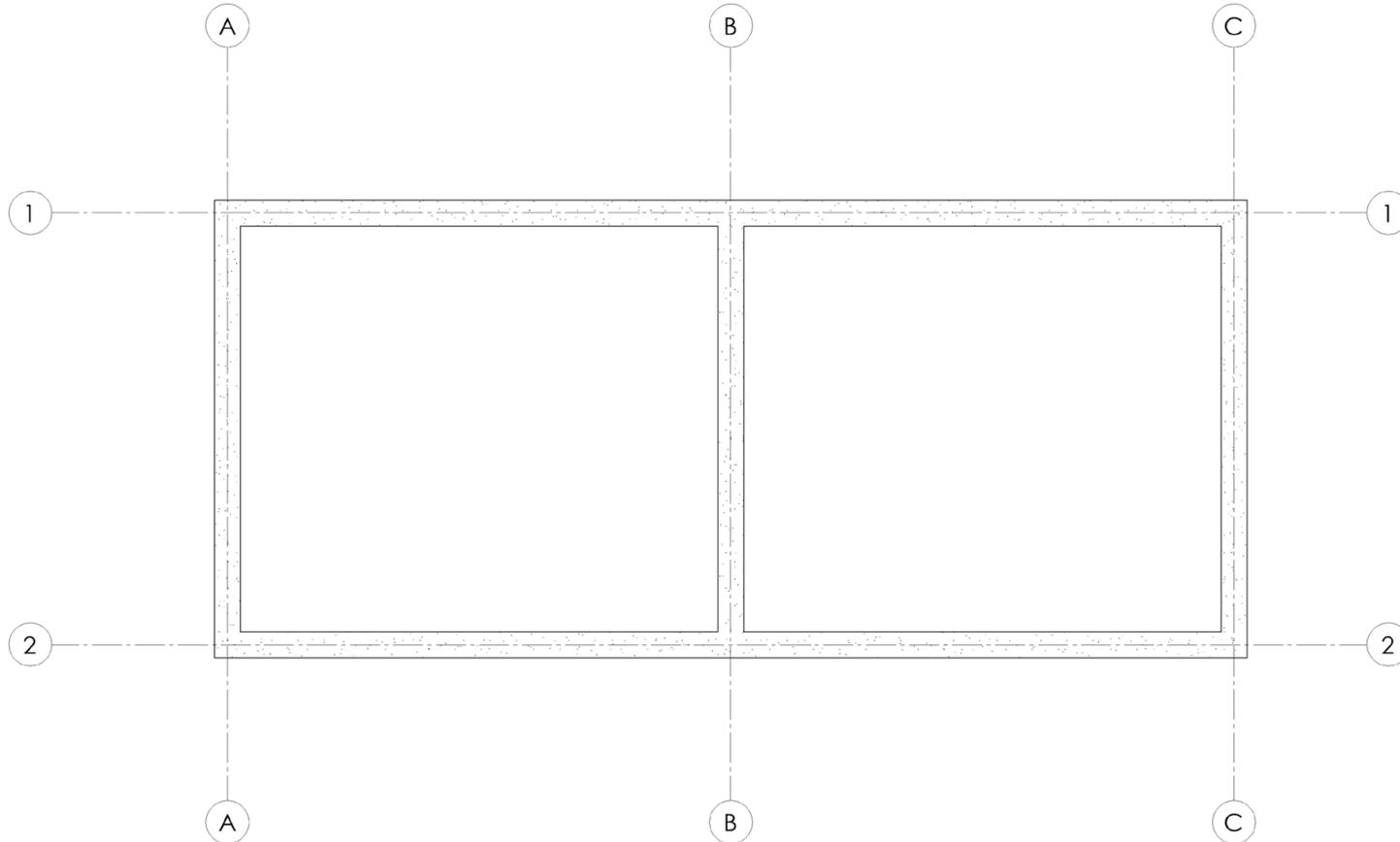
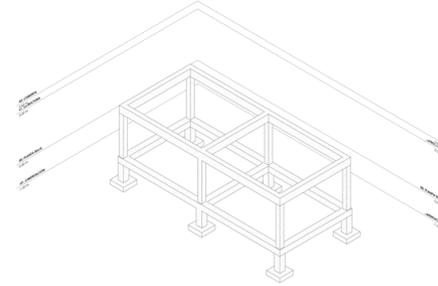
ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM

The screenshot shows a BIM software interface. On the left is a project tree with the following structure:

- DIBUJO DIGITAL
 - Site
 - Floor Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Ceiling Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Structural Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA**
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Sections
 - S-01 Building Sect
 - Elevations
 - East Elevation

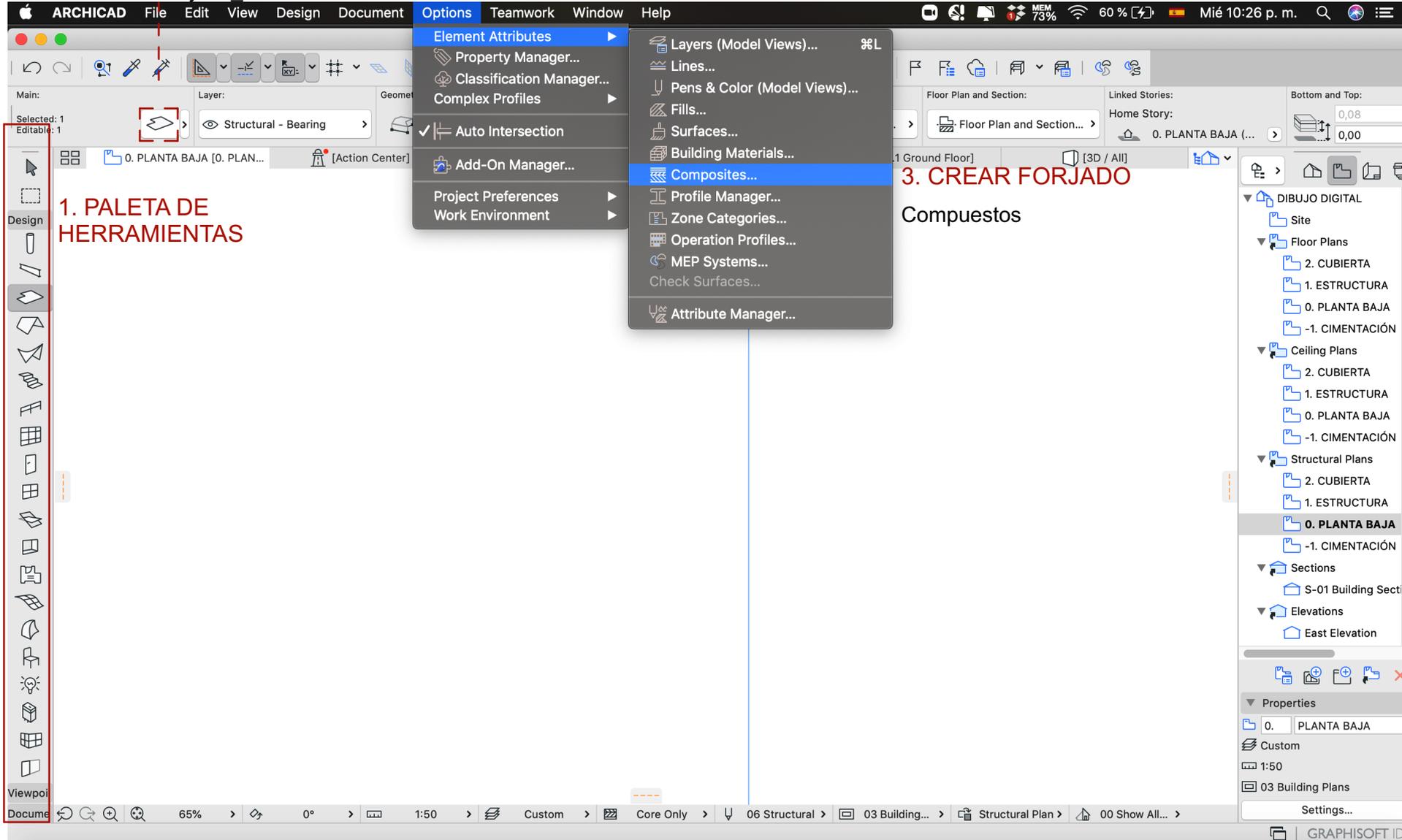
At the bottom of the tree are icons for file operations: save, add, delete, and close. Below the tree is a Properties panel with the following information:

- 1. ESTRUCTURA
- Custom
- 1:50
- 03 Building Plans
- Settings...
- GRAPHISOFT ID



2. COMANDO A UTILIZAR

Forjado Losa



3. CREAR FORJADO

Compuestos

DIBUJO DIGITAL.pln

Main: Selected: 1 Editable: 1

Layer: Structural - Bearing

Geometry Method:

Reference Plane Location:

Structure: LOSA DE CON...

Floor Plan and Section: Floor Plan and Section...

Linked Stories: Home Story: 0. PLANTA BAJA (...)

Bottom and Top: 0,08 0,00

Composites

Generic Slab/Roof

New...

New Composite Structure

Name: LOSA ESTRUCTURAL 8 CM

New

Duplicate: Generic Slab/Roof

Cancel OK

EDIT SKIN AND LINE STRUCTURE

Skin and Separator

Outside/Top: Solid Line

Inside/Bottom: Solid Line

Total thickness: [m] 0,30

Insert Skin Remove Skin

Use with:

Cancel OK

4. DUPLICAR

DIBUJO DIGITAL

- Site
- Floor Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
- Ceiling Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
- Structural Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA**
 - 1. CIMENTACIÓN
- Sections
 - S-01 Building Section
- Elevations
 - East Elevation

Properties

0. PLANTA BAJA

Custom

1:50

03 Building Plans

Settings...

GRAPHISOFT ID

Composites

LOSA ESTRUCTURAL 8 CM

New... Rename... Delete...

EDIT SKIN AND LINE STRUCTURE

Skin and Separator	Line Pen	Type
<input checked="" type="checkbox"/> Outside/Top: Solid Line	161	
<input checked="" type="checkbox"/> GENERIC - EXTERNAL CLA...	161	0,02
<input checked="" type="checkbox"/> Solid Line	141	
<input checked="" type="checkbox"/> GENERIC - STRUCTURAL	141	0,08
<input checked="" type="checkbox"/> Inside/Bottom: Solid Line	141	

Total thickness: [m] 0,10

Insert Skin Remove Skin

Use with:

Cancel OK

5. EDITAR ESTRUCTURA
8cm hormigón armado
2cm recubrimiento cerámico

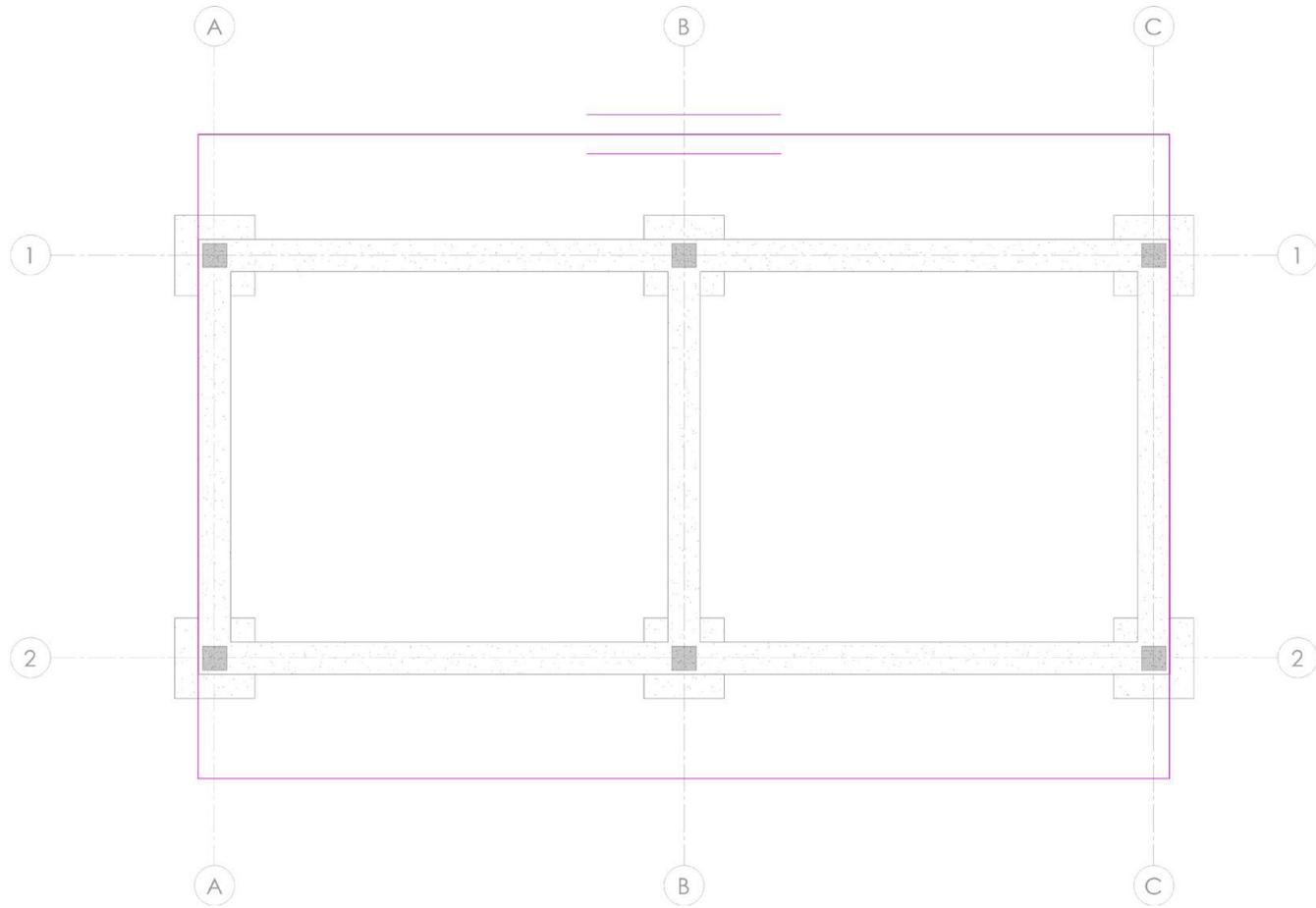
ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM

Navigation and Properties Panel

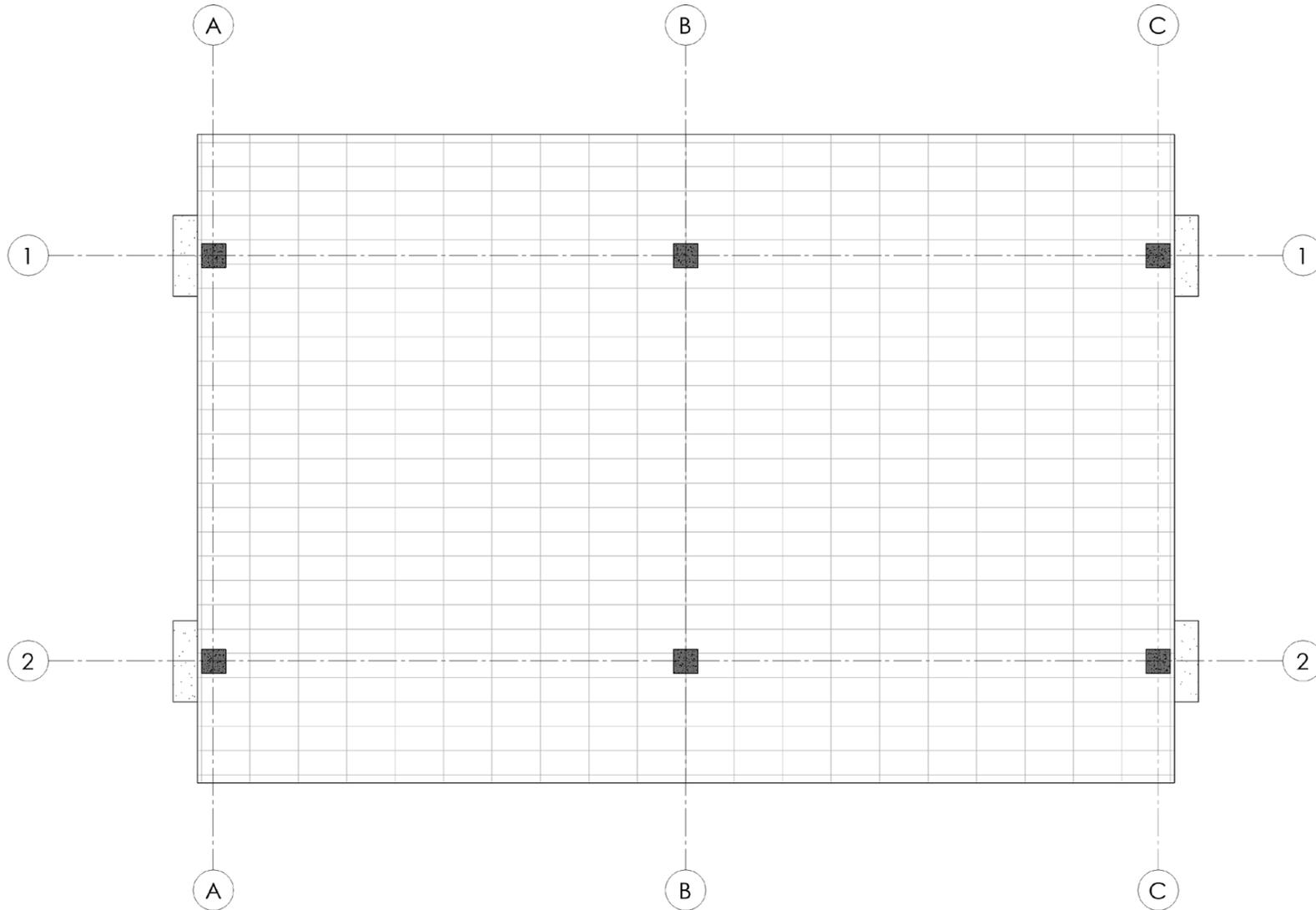
- Home
- Navigation icons
- DIBUJO DIGITAL
 - Site
 - Floor Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Ceiling Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Structural Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA**
 - 1. CIMENTACIÓN
 - Sections
 - S-01 Building Sect
 - Elevations
 - East Elevation
- Properties
 - 0. PLANTA BAJA
 - Custom
 - 1:50
 - 03 Building Plans
 - Settings...

Main toolbar settings

- Main: Default Settings
- Layer: Structural - Bearing
- Geometry Method: 2
- Reference Plane Location: [Icons]



ESTRUCTURA. LOSA DE CONTRAPISO



DIBUJO DIGITAL

09

2. COMANDO A UTILIZAR

Objeto

ESTRUCTURA. VIGAS PRETENSADAS

The screenshot displays the 'Object Default Settings' dialog for a 'Precast Double Tee 24' beam. The 'PREVIEW AND POSITIONING' section shows a 3D model of the beam with dimensions: 0,10 (width), 3,92 (depth), 7,60 (span), 2,40 (height), and 0,45 (flange thickness). The 'BEAM SETTINGS' section includes a 'Style and Dimensions...' button and a 'Topping' checkbox. The 'FLOOR PLAN AND SECTION' section shows a cross-section of the beam with dimensions: 0,20 (flange width), 0,07 (flange thickness), 0,15 (web width), and 0,07 (web thickness). The 'Properties' section shows the beam is located in '2. CUBIERTA'.

1. PALETA DE HERRAMIENTAS

4. CAMBIAR DIMENSIONES

0.45 m

3. COMPONENTE A UTILIZAR

Viga doble T prefabricada

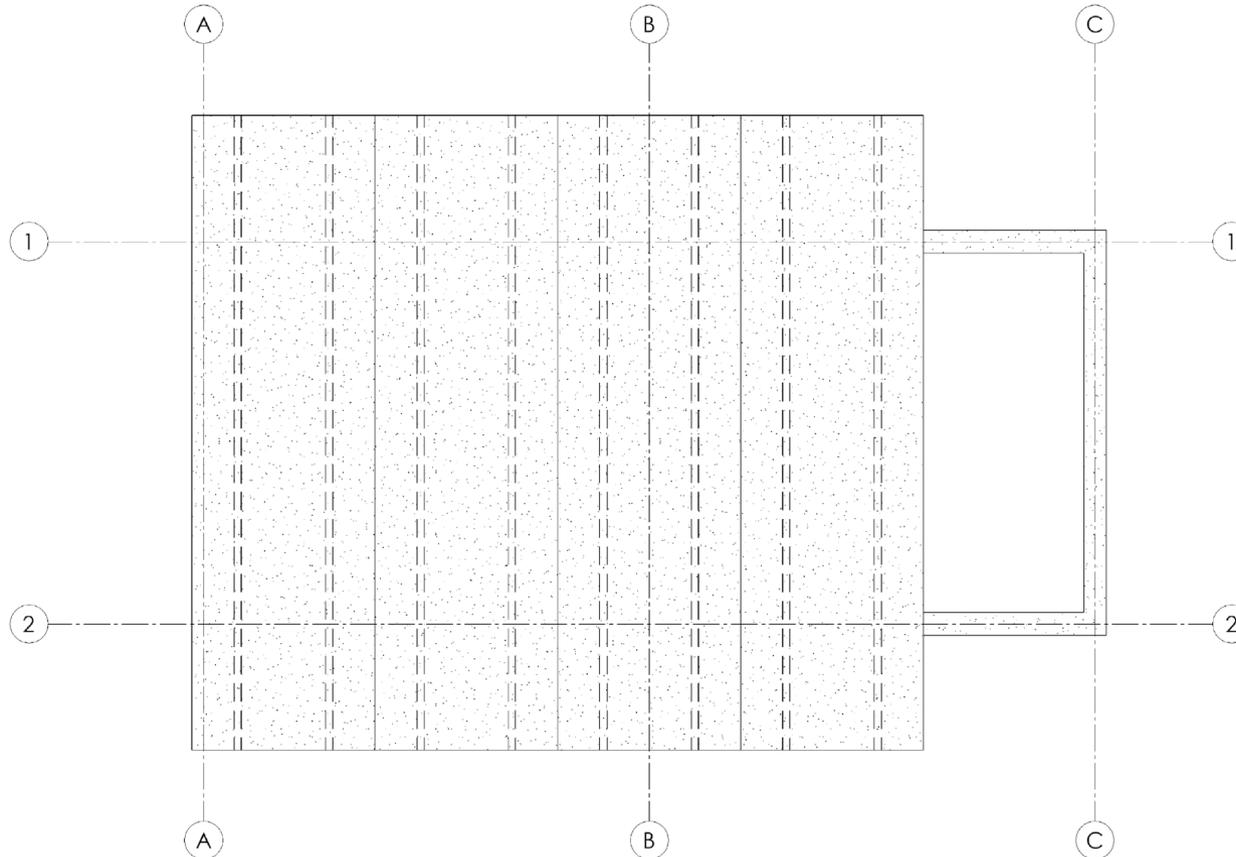
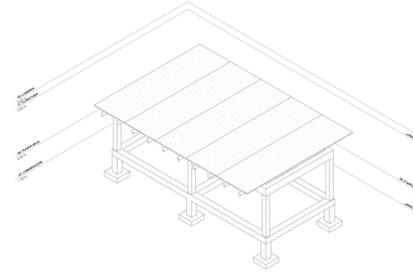
The screenshot shows a BIM software interface. On the left is a project tree with the following structure:

- DIBUJO DIGITAL
 - Site
 - Floor Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Ceiling Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Structural Plans
 - 2. CUBIERTA** (highlighted with a red dashed box)
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Sections
 - S-01 Building Section
 - Elevations
 - East Elevation

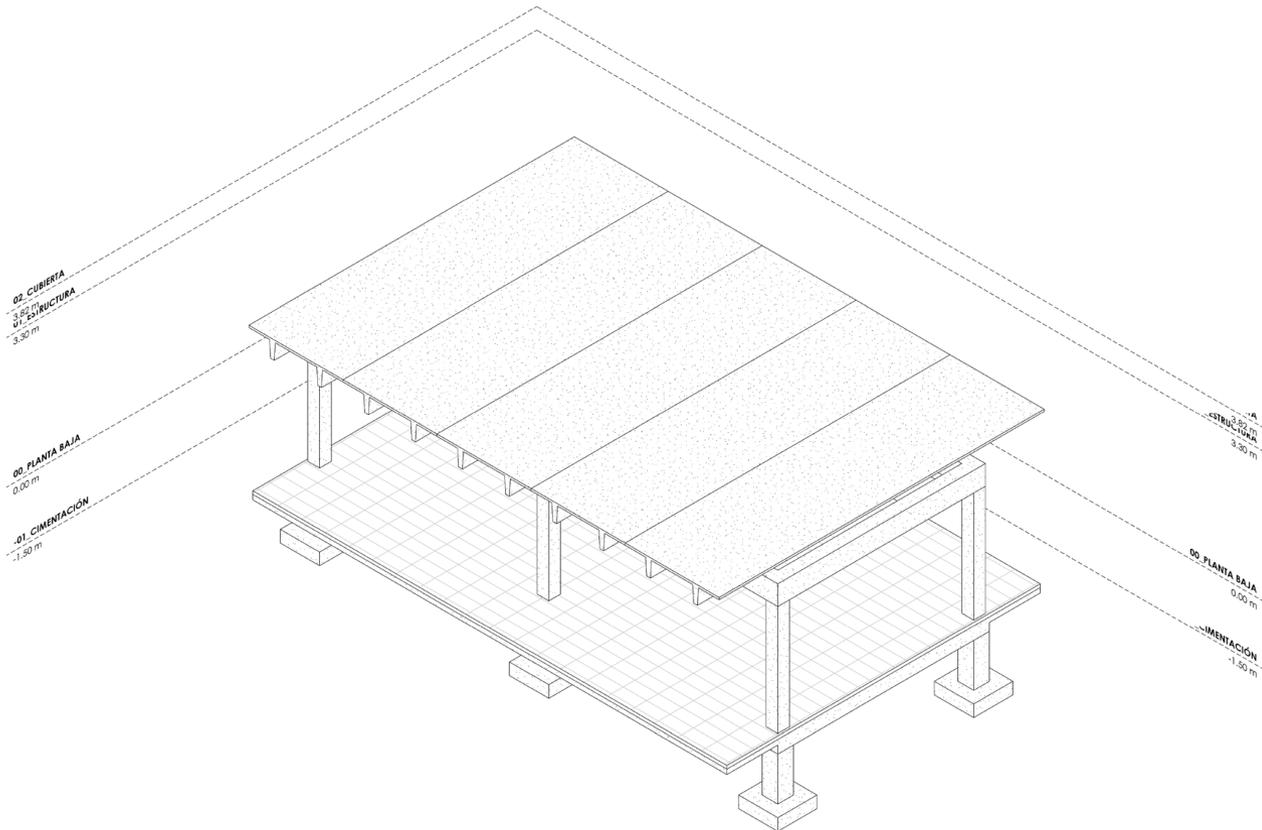
At the bottom, the Properties panel shows:

- Properties
 - 2. CUBIERTA
 - Custom
 - 1:50
 - 03 Building Plans

ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM



ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM



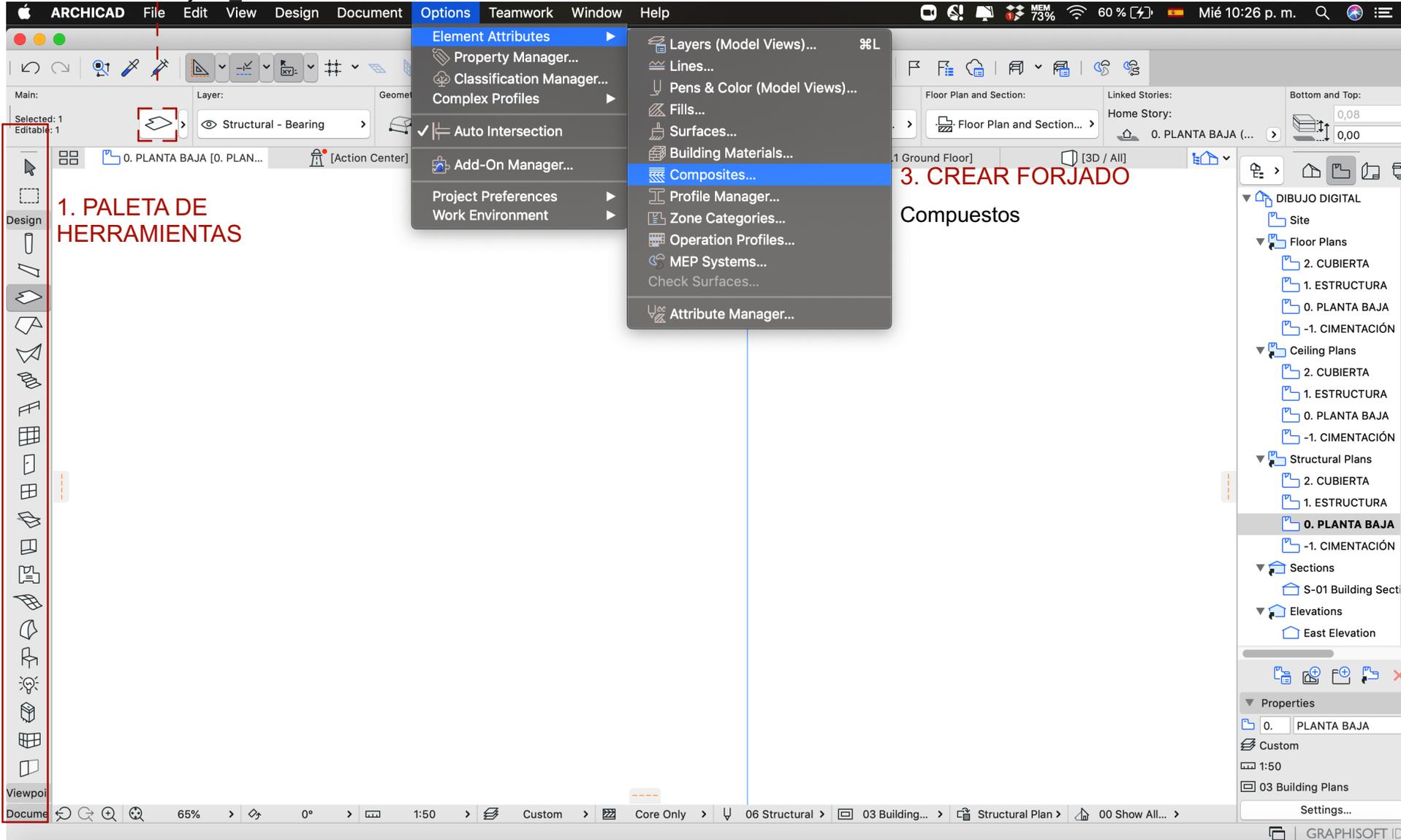
DIBUJO DIGITAL

10

2. COMANDO A UTILIZAR

Forjado Losa

LOSA DE CUBIERTA



1. PALETA DE HERRAMIENTAS

3. CREAR FORJADO

Compuestos

DIBUJO DIGITAL.pln

Main: Selected: 1 Editable: 1

Layer: Structural - Bearing

Geometry Method:

Reference Plane Location:

Structure: LOSA DE CON...

Floor Plan and Section: Floor Plan and Section...

Linked Stories: Home Story: 0. PLANTA BAJA (...)

Bottom and Top: 0,08 0,00

Composites

Generic Slab/Roof

New...

New Composite Structure

Name: LOSA FUNDICIÓN CUBIERTA 7CM

New

Duplicate: Generic Slab/Roof

Cancel OK

EDIT SKIN AND LINE STRUCTURE

Skin and Separator

Outside/Top: Solid Line

Inside/Bottom: Solid Line

Total thickness: [m] 0,30

Insert Skin Remove Skin

Use with:

Cancel OK

-4. DUPLICAR

DIBUJO DIGITAL

- Site
- Floor Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
- Ceiling Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
- Structural Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
- Sections
 - S-01 Building Secti
- Elevations
 - East Elevation

Properties

0. PLANTA BAJA

Custom

1:50

03 Building Plans

Settings...

GRAPHISOFT ID

DIBUJO DIGITAL.pln

Main: Selected: 1 Editable: 1

Layer: Structural - Bearing

Geometry Method:

Reference Plane Location:

Structure: LOSA FUNDICION...

Floor Plan and Section: Floor Plan and Section...

Linked Stories: Home Story: 2. CUBIERTA (Curr...)

Bottom and Top: 0,07 0,00

Composites

LOSA FUNDICION CUBIERTA 7CM

New... Rename... Delete...

EDIT SKIN AND LINE STRUCTURE

Skin and Separator	Line Pen	Type
<input checked="" type="checkbox"/> Outside/Top: Solid Line	141	
<input checked="" type="checkbox"/> Tile - Roof	141	0,02
<input checked="" type="checkbox"/> Solid Line	141	
<input checked="" type="checkbox"/> Concrete	161	0,05
<input checked="" type="checkbox"/> Inside/Bottom: Solid Line	161	

Total thickness: [m] 0,07

Insert Skin Remove Skin

Use with:

Cancel OK

2. CUBIERTA [2. CUBIERTA] [S-01 Building Section] [North Elevation [North Ele...]] [A.01.1 Ground Floor] [3D / All] [Action Center]

DIBUJO DIGITAL

- Site
- Floor Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
- Ceiling Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
- Structural Plans
 - 2. CUBIERTA**
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
- Sections
 - S-01 Building Section
- Elevations
 - East Elevation

Properties

2. CUBIERTA

Custom

1:50

03 Building Plans

Settings...

GRAPHISOFT ID

5. EDITAR ESTRUCTURA
5 cm hormigón
2cm recubrimiento cerámico

1. CREAR NUEVO COMPUESTO

1. Opciones
2. Atributos del elemento
3. Nuevo_Duplicar

Name: MURO DE LADRILLO VISTO 30cm

New
 Duplicate: Generic Wall/Shell

Total thickness: [m] 0,30

Use with:

Cancel OK

0. PLANTA BAJA [0. PLANTA BAJA]

Composites

Generic Wall/Shell

New...

EDIT SKIN AND LINE STRUCTURE

Skin and Separator

Outside/Top: So

GENERIC - EXTE

Solid Line

GENERIC - STRU

Inside/Bottom: S

Insert Skin Remove Skin

Cancel OK

0. PLANTA BAJA [0. PLANTA BAJA]

Site

Floor Plans

2. CUBIERTA

1. ESTRUCTURA

0. PLANTA BAJA

-1. CIMENTACIÓN

Ceiling Plans

2. CUBIERTA

1. ESTRUCTURA

0. PLANTA BAJA

-1. CIMENTACIÓN

Structural Plans

2. CUBIERTA

1. ESTRUCTURA

0. PLANTA BAJA

-1. CIMENTACIÓN

Sections

S-01 Building Secti

Elevations

East Elevation

Properties

0. PLANTA BAJA

02 Drafting

1:50

03 Building Plans

EDICIÓN DE ESTRUCTURA DE MURO

DIBUJO DIGITAL.pln

Main: Default Settings | Layer: Structural - Bearing | Geometry Method: Core Outside | Reference Line Location: | Structure: Generic Wall/S... | Floor Plan and Section: Floor Plan and Section... | Linked Stories: 1. ESTRUCTURA (H...), 0. PLANTA BAJA (...)| Bottom and Top: 3,30, 0,00

0. PLANTA BAJA [0. PLANTA BAJA] | [S-01 Building Section] | North Elevation [North Elevation] | [A-01 Ground Floor] | [3D / All]

Design | Viewport

Composites

MURO DE LADRILLO VISTO 30cm

New... Rename... Delete...

EDIT SKIN AND LINE STRUCTURE

<input checked="" type="checkbox"/>	Skin and Separator	<input checked="" type="checkbox"/>	Line Pen	Type	
<input checked="" type="checkbox"/>	Outside/Top: Solid Line		161		
<input checked="" type="checkbox"/>	GENERIC - EXTERNAL CLA...	<input checked="" type="checkbox"/>	161		0,00
<input checked="" type="checkbox"/>	Solid Line		141		
<input checked="" type="checkbox"/>	Brick - Structural	<input checked="" type="checkbox"/>	141		0,30
<input checked="" type="checkbox"/>	Inside/Bottom: Solid Line		141		

Total thickness: [m] 0,30

Use with: [Icons]

Insert Skin Remove Skin

Cancel OK

1

2

A B C

2. EDITAR ESTRUCTURA
Muro exterior 30 cm, ladrillo visto

S-01

DIBUJO DIGITAL

- Site
- Floor Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA**
 - 1. CIMENTACIÓN
- Ceiling Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
- Structural Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
- Sections
 - S-01 Building Secti
- Elevations
 - East Elevation

Properties

0. PLANTA BAJA

02 Drafting

1:50

03 Building Plans

Settings...

Docume 47% 0° 1:50 02 Drafting Entire Model 03 Architect... 03 Building... No Overrides 00 Show All...

DIBUJO DIGITAL

11

4. COMANDO A UTILIZAR

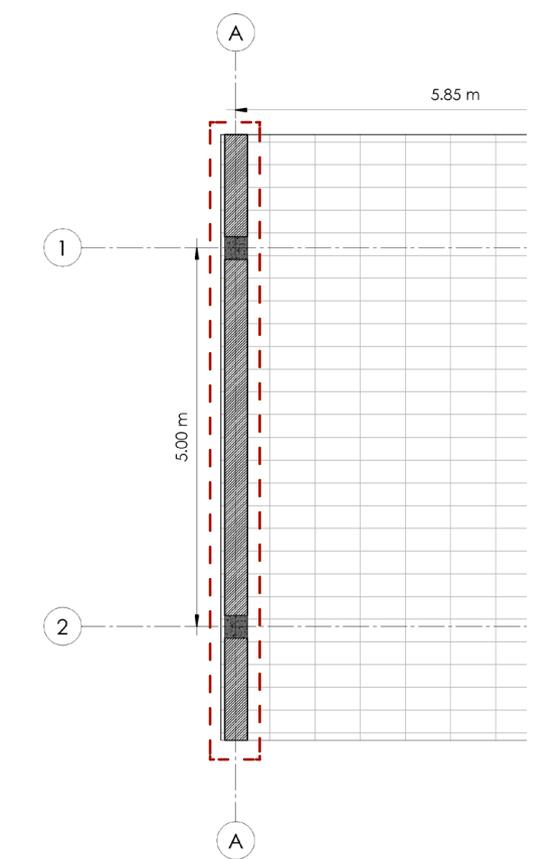
Herramienta muro

MAMPOSTERÍAS. MURO PERIMETRAL

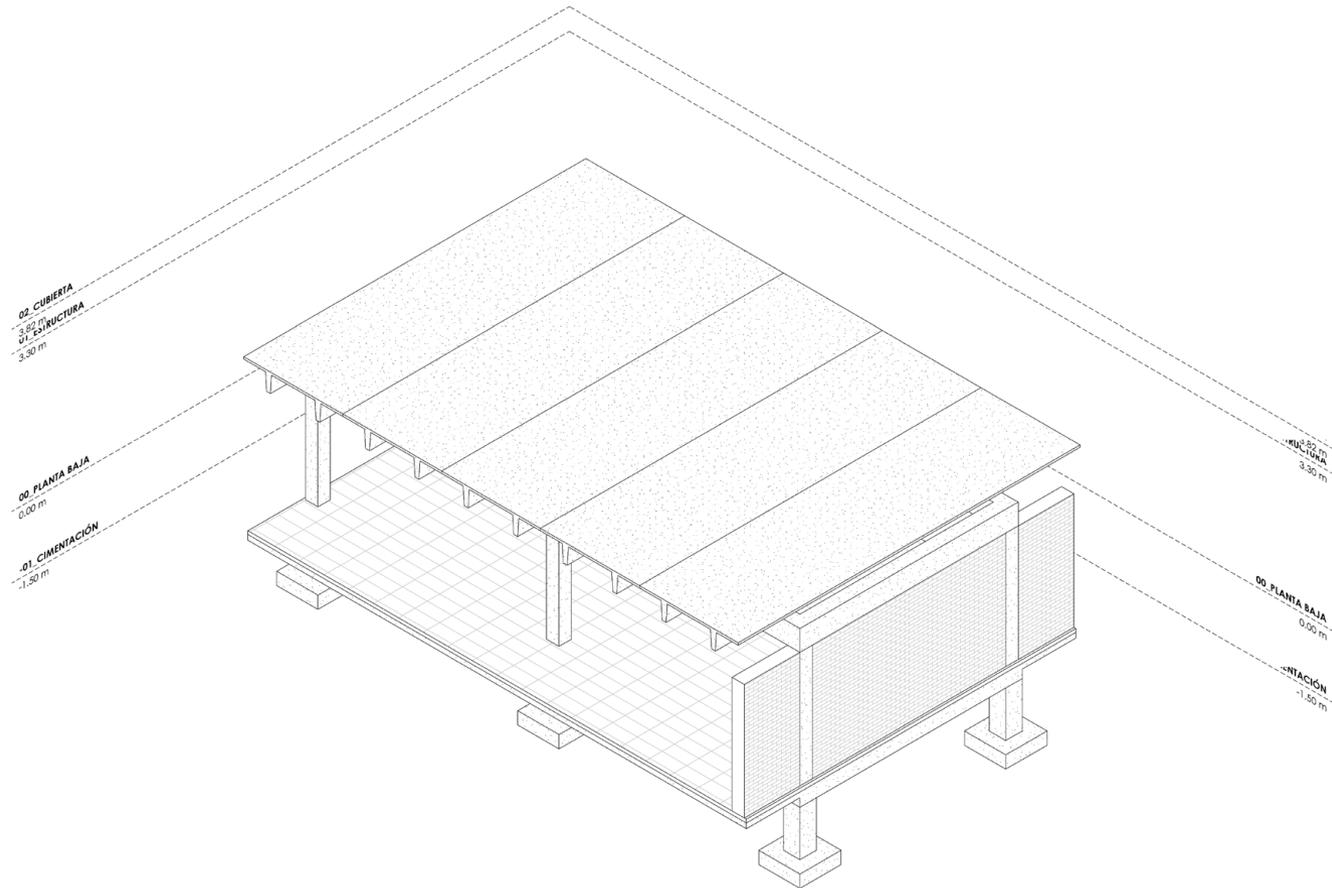
3. PALETA DEL NAVEGADOR

Mapa de vista

5. CONFIGURAR MURO CREADO Y NIVELES



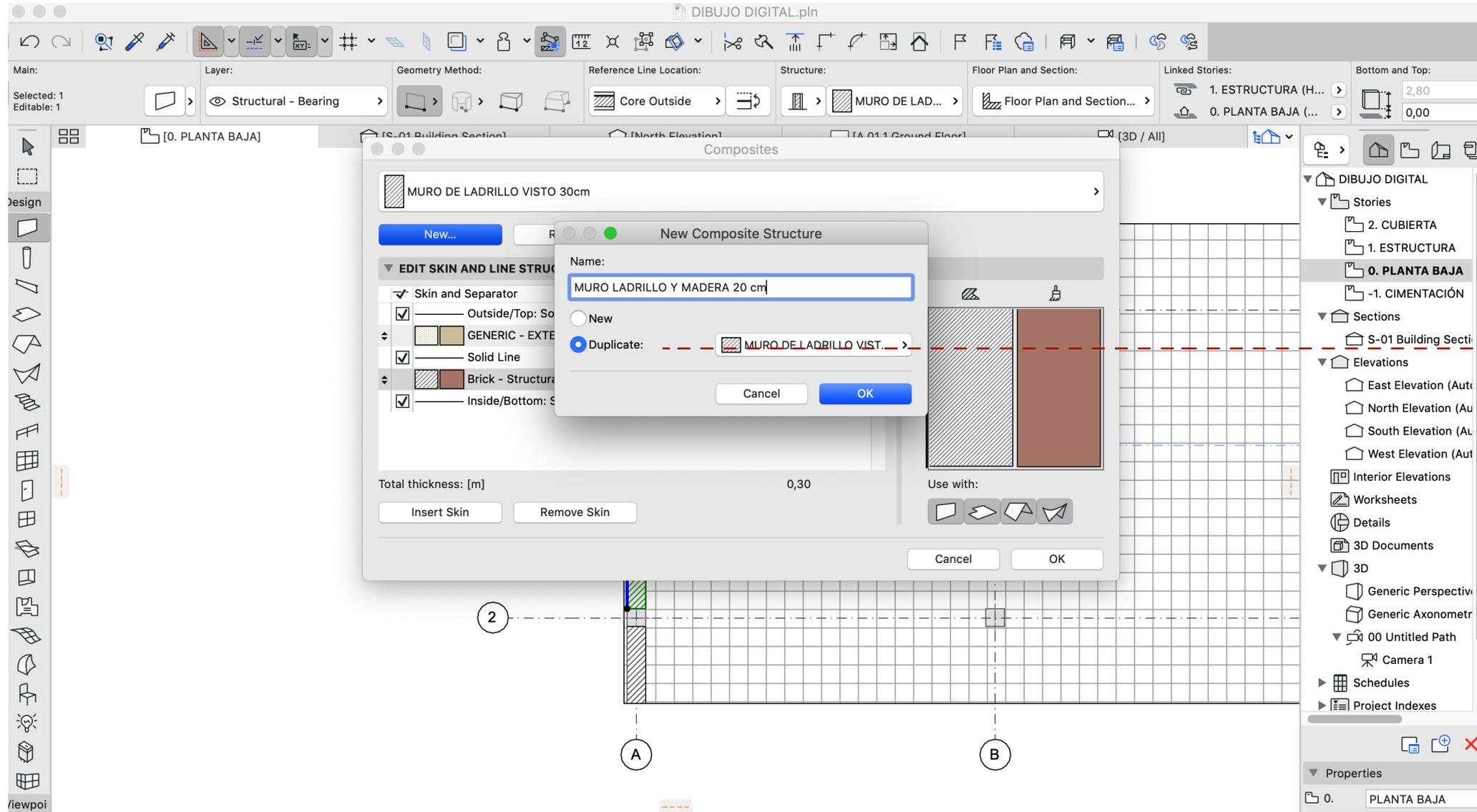
ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM



DIBUJO DIGITAL

12

MAMPOSTERÍAS. MUROS INTERIORES



1. DUPLICAR COMPUESTO
COMPUESTO
DUPLICAR
MURO INTERIOR 20CM

EDICIÓN DE ESTRUCTURA DE MURO

DIBUJO DIGITAL.pln

Main: Default Settings Layer: Structural - Bearing Geometry Method: Core Outside Reference Line Location: MURO LADRIL... Structure: Floor Plan and Section: Linked Stories: 1. ESTRUCTURA (H... 0. PLANTA BAJA (... Bottom and Top: 3,30 0,00

Design

Composites

MURO LADRILLO Y MADERA 20 cm

New... Rename... Delete...

EDIT SKIN AND LINE STRUCTURE

✓ Skin and Separator	Line Pen	Type	
✓ Outside/Top: Solid Line	141	1	
⇅ Timber - Structural	141	1	> 0,03
✓ Solid Line	141	1	
⇅ Brick - Structural	141	1	0,14
✓ Solid Line	141	1	
⇅ Timber - Structural	141	1	0,03
✓ Inside/Bottom: Solid Line	141	1	

Total thickness: [m] 0,20

Insert Skin Remove Skin

Use with:

Cancel OK

1

S-01

2

A B C

2. EDITAR ESTRUCTURA
14 cm ladrillo
3cm de madera por cara

0. PLANTA BAJA

Properties

0. PLANTA BAJA

Settings...

58% 0° 1:50 02 Drafting Entire Model 03 Architect... 03 Building... No Overrides 00 Show All...

DIBUJO DIGITAL

12

4. COMANDO A UTILIZAR

Herramienta muro

MAMPOSTERÍAS. MUROS INTERIORES

3. PALETA DEL NAVEGADOR

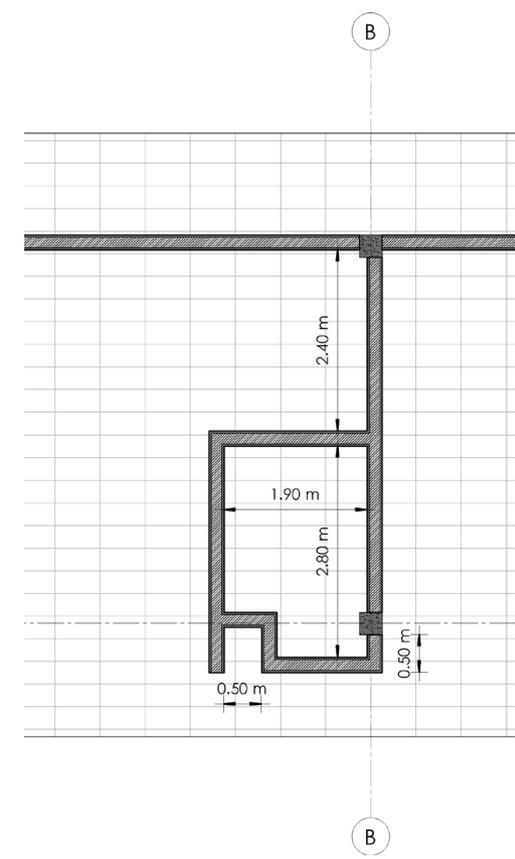
Mapa de vista

5. CONFIGURAR MURO CREADO Y NIVELES

The screenshot shows the 'Wall Selection Settings' dialog box in a software application. The dialog is titled 'Wall Selection Settings' and has a 'Selected: 1 Editable: 1' status. It is divided into several sections:

- GEOMETRY AND POSITIONING:** This section is currently selected. It includes a 'Top Link' dropdown set to '1. ESTRUCTURA (Home + 1)'. Below this are input fields for height and width, with values like -0,50, 2,80, and 0,00. A material selection dropdown is set to 'MURO LADRILLO Y MADERA 20 cm'. There are also fields for 'Home Story' (set to '0. PLANTA BAJA (Current)') and 'Reference Line' (set to '0,00').
- PROFILE OFFSET MODIFIERS:** This section is collapsed.
- FLOOR PLAN AND SECTION:** This section is expanded and contains several sub-sections:
 - FLOOR PLAN DISPLAY:** Includes 'Show on Stories' (All Relevant Stories), 'Floor Plan Display' (Projected), and 'Show Projection' (To Floor Plan Range).
 - CUT SURFACES:** Includes 'Override Cut Fill Pens' (None).
 - CUT LINES:** This section is collapsed.
 - MODEL:** This section is collapsed.
 - STRUCTURAL ANALYTICAL PARAMETERS:** This section is collapsed.
 - CLASSIFICATION AND PROPERTIES:** This section is collapsed.

The background shows a drawing of a wall on a grid. The wall is highlighted in blue and green. The drawing has grid lines labeled A, B, C and 1, 2. A dashed line labeled 'S-01' is also visible.



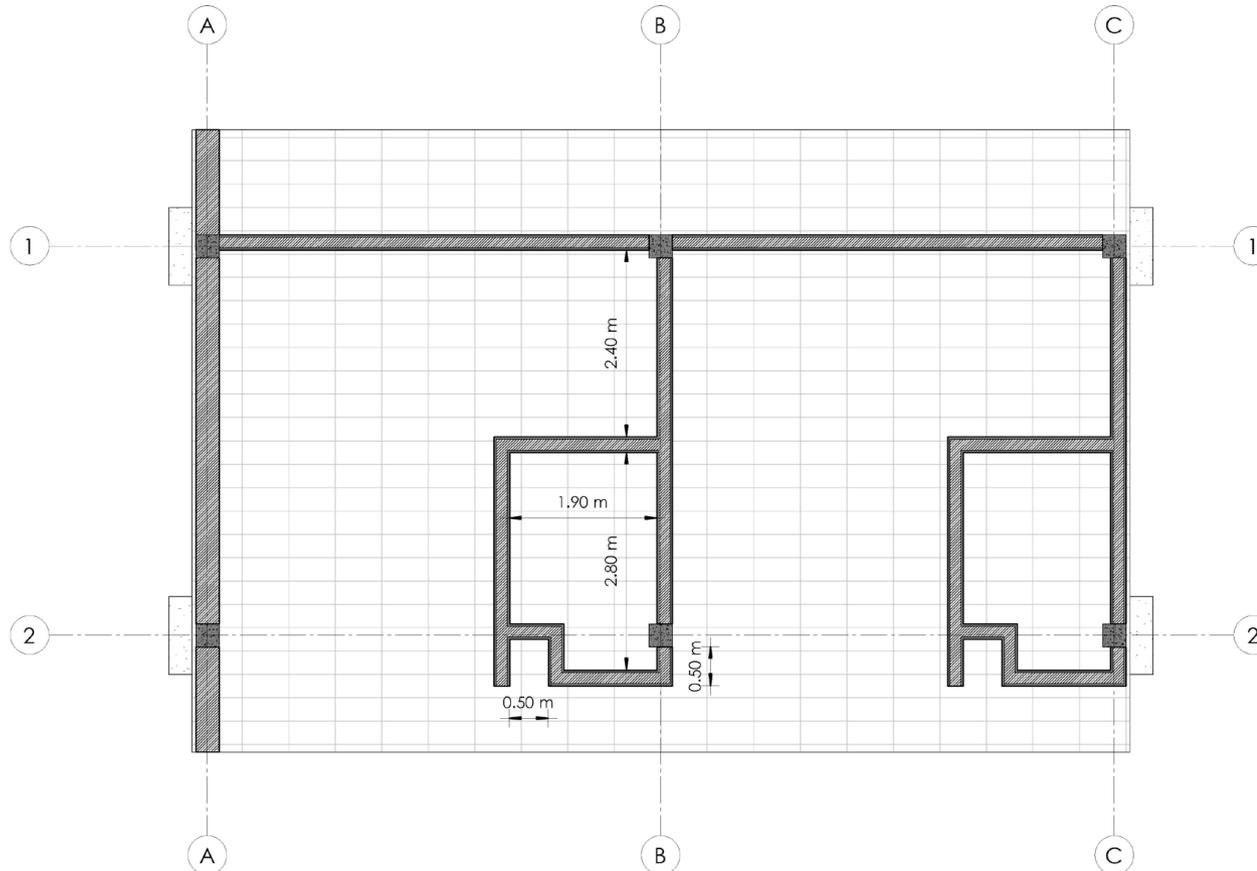
ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM

The screenshot shows a BIM software interface. On the left is a project tree with the following structure:

- DIBUJO DIGITAL
 - Stories
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA** (highlighted with a red box)
 - 1. CIMENTACIÓN
 - Sections
 - S-01 Building Section
 - Elevations
 - East Elevation (Auto)
 - North Elevation (Aut)
 - South Elevation (Aut)
 - West Elevation (Aut)
 - Interior Elevations
 - Worksheets
 - Details
 - 3D Documents
 - 3D
 - Generic Perspective
 - Generic Axonometry
 - 00 Untitled Path
 - Camera 1
 - Schedules
 - Project Indexes

At the bottom, the Properties panel shows:

- 0. PLANTA BAJA
- Settings...



2. COMANDO A UTILIZAR

Puerta

4. EDITAR DIMENSIONES

Puerta 1,00x2,40m

CARPINTERÍAS. PUERTAS

1. PALETA DE HERRAMIENTAS

2

3. CAMBIAR PROPIEDADES
Seleccionar las propiedades

A B C

Door Default Settings

Entrance Door 24

Embedded Library

Linked Libraries

ARCHICAD Library 24

1.1 Furnishing 24

1.2 Doors 24

Empty Door Openings 24

Garage Doors 24

Hinged Doors 24

Rotating Doors 24

Entrance Door 24

Entrance Double Door 24

Empty Opening

PREVIEW AND POSITIONING

1,00

2,40

Flip

ANCHORS

Sill to Story 0

0,10

Reveal to Wall Face

0,00

STOREFRONT DOOR SETTINGS

FLOOR PLAN AND SECTION

DIMENSION MARKER

MARKER TEXT STYLE

MARKER CUSTOM SETTINGS

CLASSIFICATION AND PROPERTIES

Cancel OK

Marker Type: No Marker

DIBUJO DIGITAL

Stories

2. CUBIERTA

1. ESTRUCTURA

0. PLANTA BAJA

-1. CIMENTACIÓN

Sections

Elevations

East Elevation (Au)

North Elevation (A)

South Elevation (A)

West Elevation (Au)

Interior Elevations

Worksheets

Details

3D Documents

3D

Generic Perspective

Generic Axonomet

00 Untitled Path

Camera 1

Schedules

Project Indexes

Lists

Properties

0. PLANTA BAJA

Settings...

83% 0° 1:50 02 Drafting 03 Architect... 03 Building... No Overrides 00 Show All...

ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM

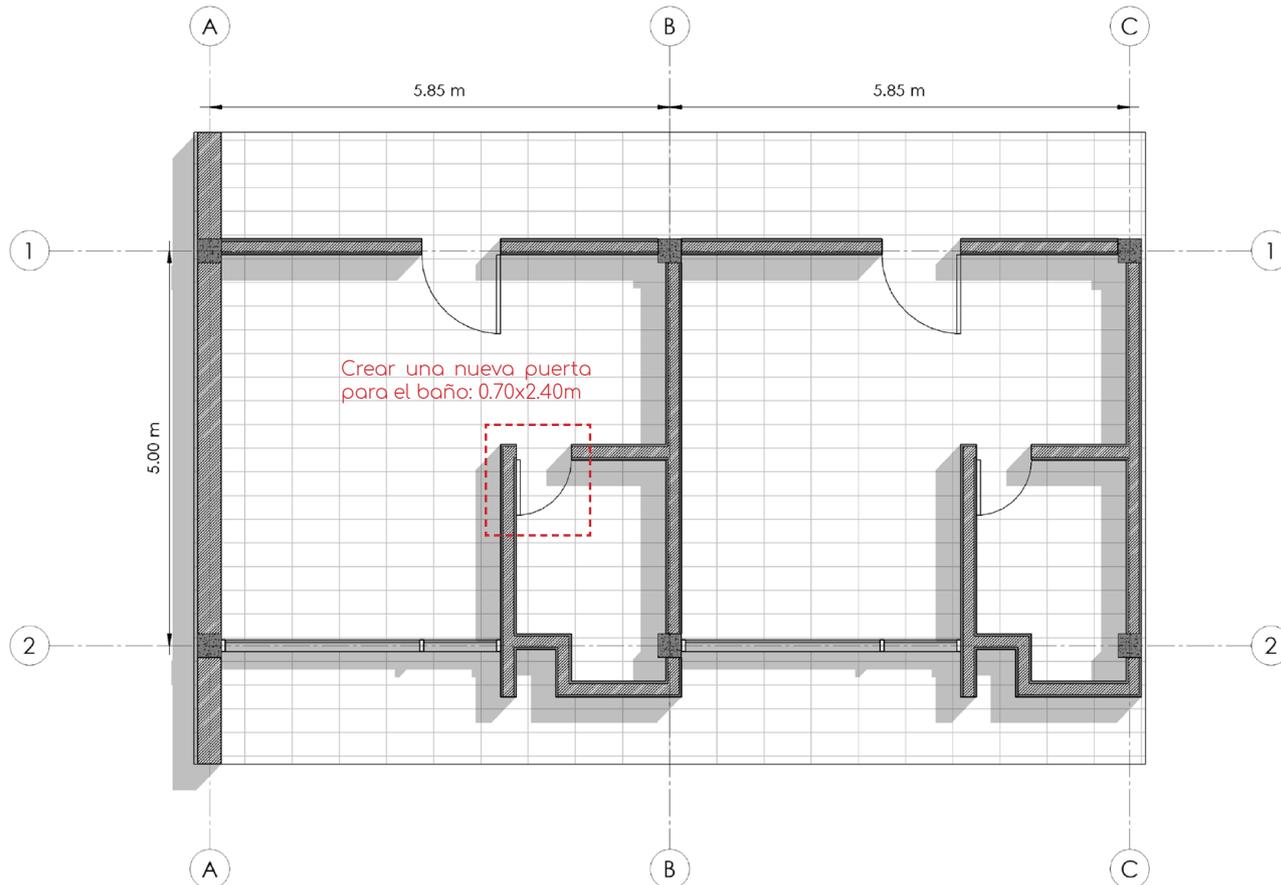
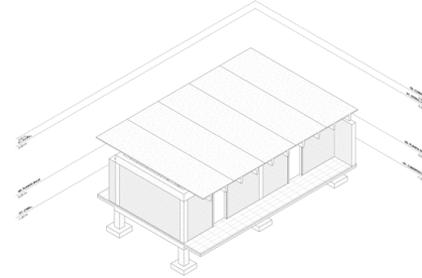
DIBUJO DIGITAL

- Stories
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA**
 - 1. CIMENTACIÓN
- Sections
 - S-01 Building Sectio
- Elevations
 - East Elevation (Auto
 - North Elevation (Aut
 - South Elevation (Aut
 - West Elevation (Autc
- Interior Elevations
- Worksheets
- Details
- 3D Documents
- 3D
 - Generic Perspective
 - Generic Axonometry
- 00 Untitled Path
 - Camera 1
- Schedules
- Project Indexes

Properties

0. PLANTA BAJA

Settings...



2. COMANDO A UTILIZAR

Ventana

4. EDITAR DIMENSIONES

Ventana 0,50x1,95m

CARPINTERÍAS. VENTANAS

The screenshot displays the ArchiCAD interface with several key elements highlighted:

- 1. PALETA DE HERRAMIENTAS:** A red box on the left side of the interface highlights the 'Window' tool in the 'Design' palette.
- 2. COMANDO A UTILIZAR:** A red dashed box highlights the 'Window' tool icon in the top toolbar.
- 3. CAMBIAR PROPIEDADES:** A red dashed box highlights the 'Window 24' window in the 'Window Default Settings' dialog, with the text 'Seleccionar las propiedades' below it.
- 4. EDITAR DIMENSIONES:** A red dashed box highlights the 'PREVIEW AND POSITIONING' section of the 'Window 24' dialog, where the width is set to 0,50 and the height to 1,95.

The 'Window Default Settings' dialog for 'Window 24' includes the following sections:

- PREVIEW AND POSITIONING:** Shows a preview of the window with dimensions 0,50 and 1,95. It also includes 'Anchors' (Sill to Story 0: 0,15), 'Reveal to Wall Core' (0,00), and a 'Flip' button.
- BASIC WINDOW SETTINGS:** (Collapsed)
- FLOOR PLAN AND SECTION:** (Collapsed)
- DIMENSION MARKER:** (Collapsed)
- MARKER TEXT STYLE:** (Collapsed)
- MARKER CUSTOM SETTINGS:** (Collapsed)
- CLASSIFICATION AND PROPERTIES:** (Collapsed)

The background shows a floor plan with a window being placed on a wall. The 'Properties' panel on the right shows the current view is '0. PLANTA BAJA'.

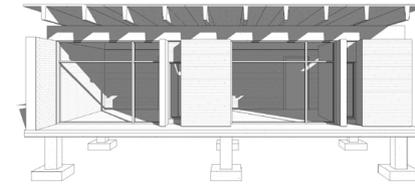
ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM

The screenshot shows a BIM software interface. On the left is a project tree with the following structure:

- DIBUJO DIGITAL
 - Stories
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA** (highlighted with a red box)
 - 1. CIMENTACIÓN
 - Sections
 - S-01 Building Sectio
 - Elevations
 - East Elevation (Auto
 - North Elevation (Aut
 - South Elevation (Aut
 - West Elevation (Autc
 - Interior Elevations
 - Worksheets
 - Details
 - 3D Documents
 - 3D
 - Generic Perspective
 - Generic Axonometry
 - 00 Untitled Path
 - Camera 1
 - Schedules
 - Project Indexes

At the bottom, the Properties panel shows:

- 0. PLANTA BAJA
- Settings...



15 2. COMANDO A UTILIZAR Muro cortina

3. MÉTODO DE DIBUJAR LOS MUROS

Considerar que los muros deben recortarse en el encuentro con la estructura.

1. PALETA DE HERRAMIENTAS

2. CONFIGURAR LAS PROPIEDADES Y DIMENSIONES DEL MURO CORTINA

3. MÉTODO DE DIBUJAR LOS MUROS

4. CONFIGURAR LAS PROPIEDADES Y DIMENSIONES DEL MURO CORTINA

GRID PATTERN AND PREVIEW

Columns:		
Number of Divisions		
#	1	C
#	Width	
↓ A	0,90	
↓ B	1,75	
↓ C	0,90	
3,55		

Rows:		
Number of Divisions		
#	1	3
#	Height	
↓ 1	0,40	
↓ 2	2,00	
↓ 3	0,40	
2,80		

PATTERN ORIGIN

Start with Pattern: 0,00

Start from Bottom: 0,00

Finish - Wall

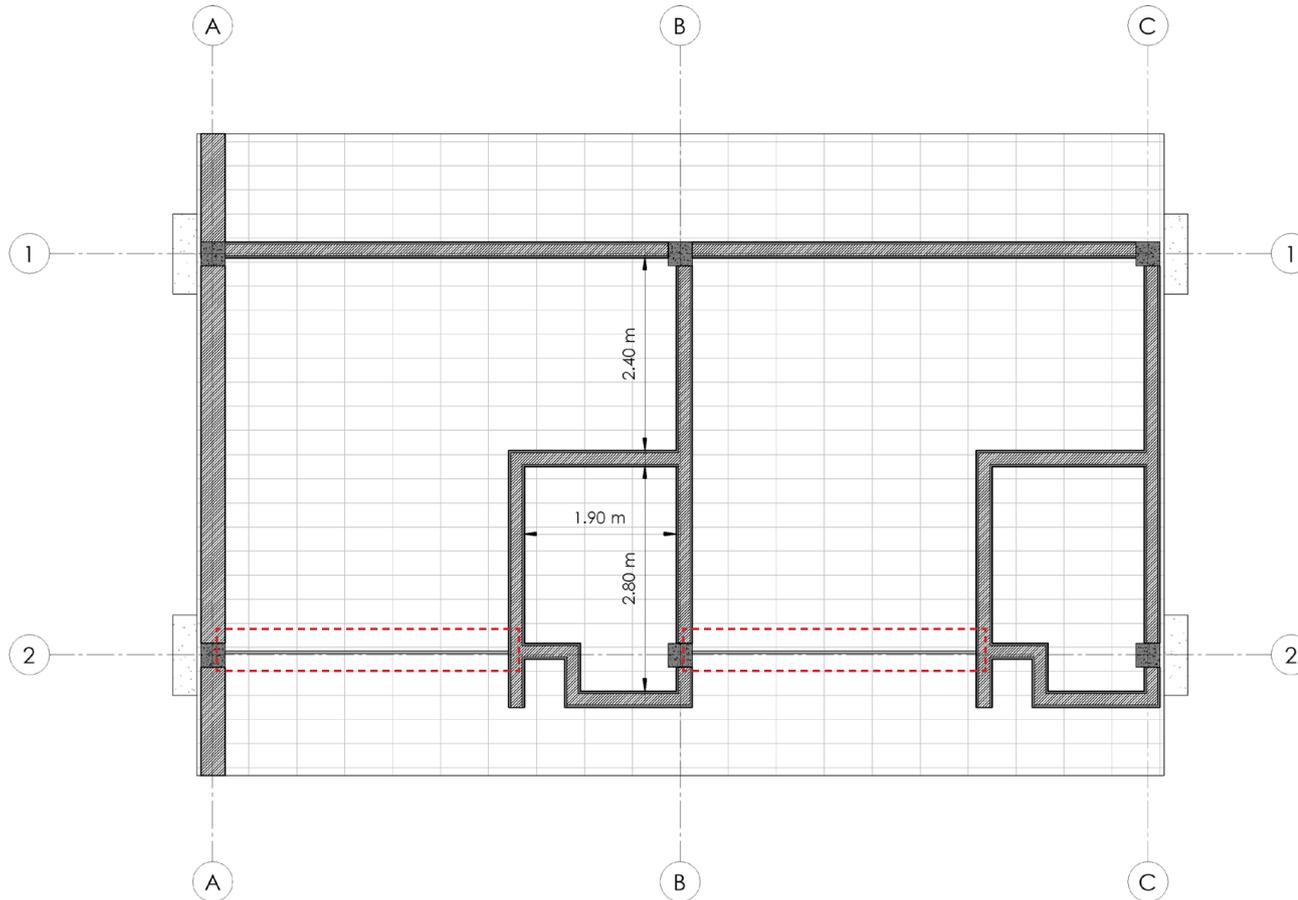
Cancel OK

ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM

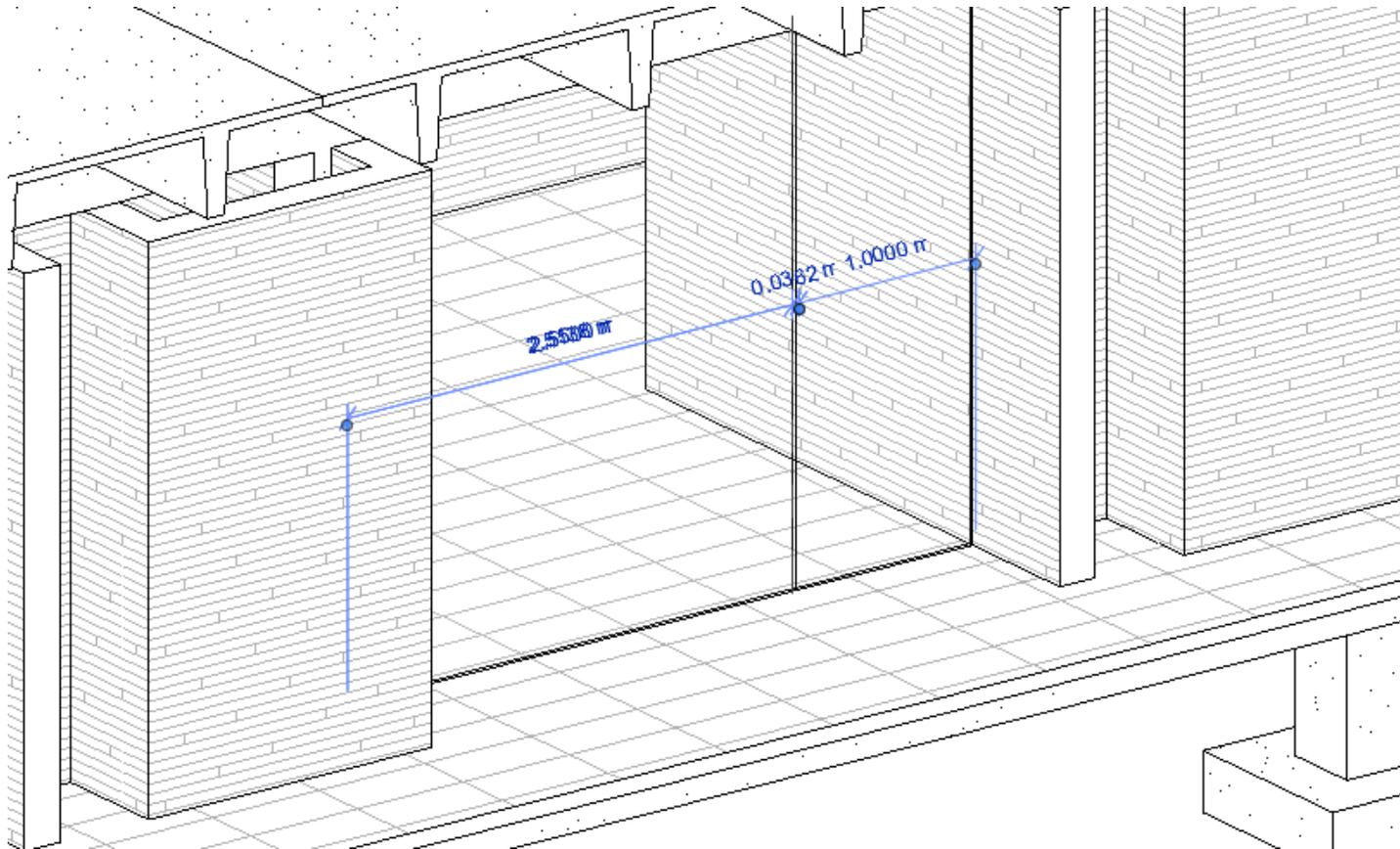
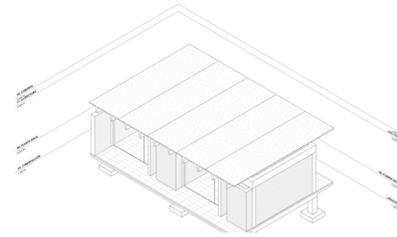
The screenshot shows the left-hand navigation pane of a BIM software application. The tree structure is as follows:

- DIBUJO DIGITAL
 - Stories
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA** (highlighted with a red box)
 - 1. CIMENTACIÓN
 - Sections
 - S-01 Building Sectio
 - Elevations
 - East Elevation (Auto
 - North Elevation (Aut
 - South Elevation (Aut
 - West Elevation (Aut
 - Interior Elevations
 - Worksheets
 - Details
 - 3D Documents
 - 3D
 - Generic Perspective
 - Generic Axonometry
 - 00 Untitled Path
 - Camera 1
 - Schedules
 - Project Indexes

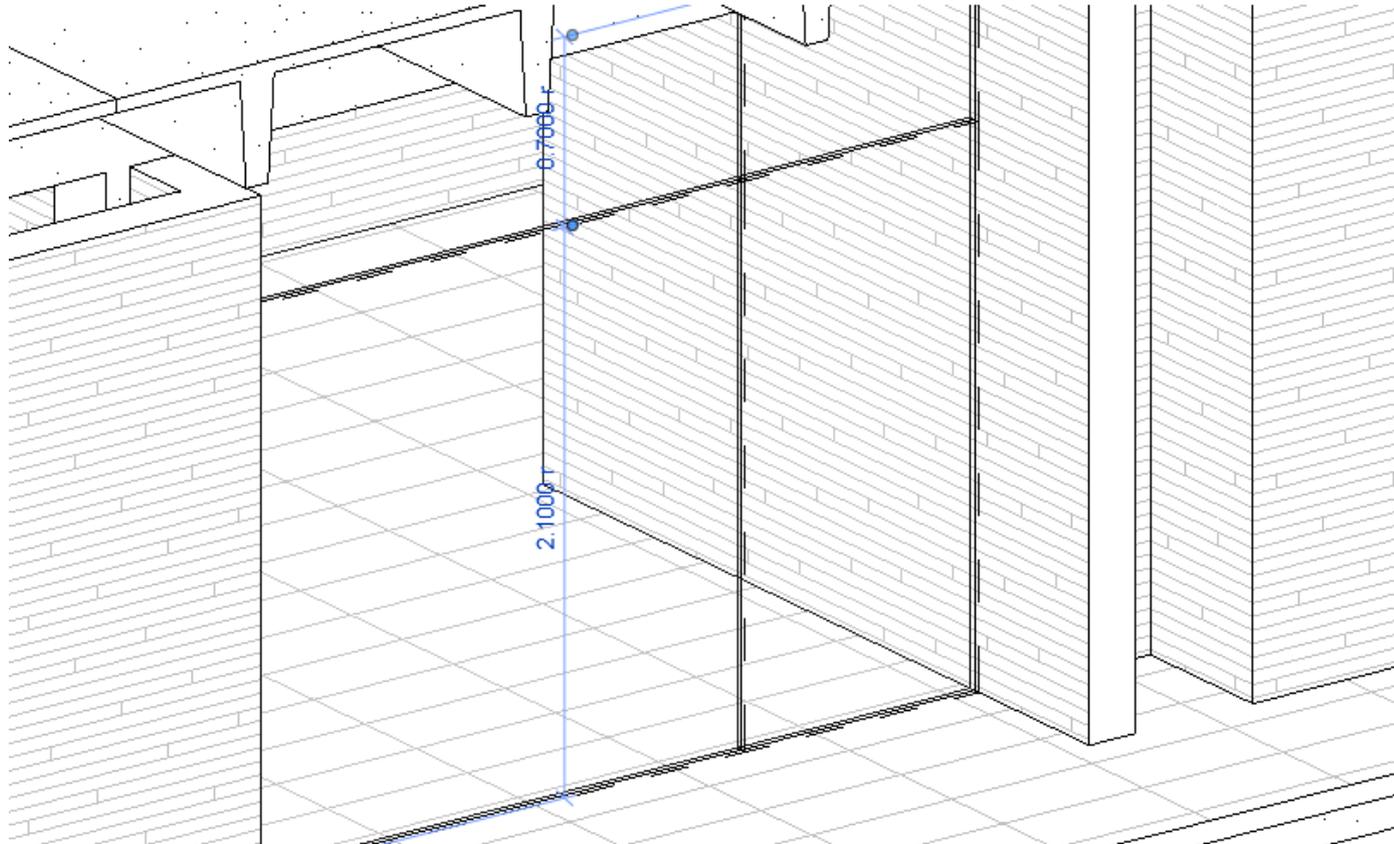
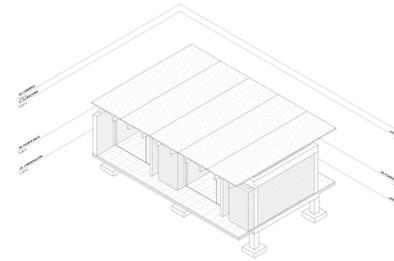
At the bottom, the Properties panel shows the current view is '0. PLANTA BAJA' and includes a 'Settings...' button.



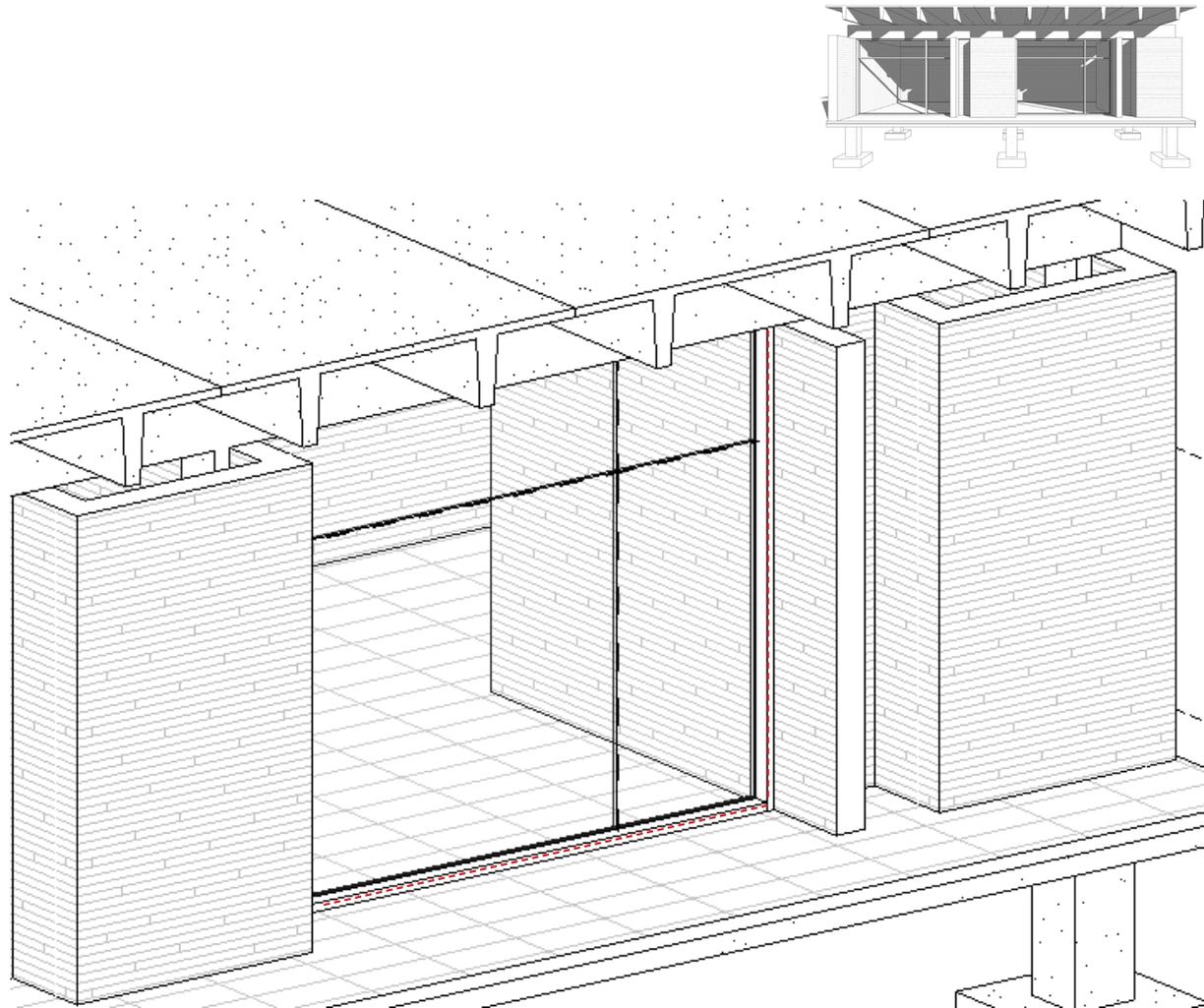
ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM



ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM



ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM



DIBUJO DIGITAL

16

2. COMANDO A UTILIZAR Objeto

4. CAMBIAR PROPIEDADES Revisar dimensiones

MOBILIARIO

1. PALETA DE HERRAMIENTAS

2. COMANDO A UTILIZAR Objeto

3. SELLECCIONAR Tipo de cama

4. CAMBIAR PROPIEDADES Revisar dimensiones

Object Default Settings

Bed Double 04 24 Default

PREVIEW AND POSITIONING

0,10

Home Story: 0. PLANTA BAJA (Current)

to Project Zero

0,10

1,90

2,20

0,90

1,90 x 2,20

Relative

45,00°

BED SETTINGS

Dimensions...

Mattress Foot board

Pillow Legs Drawers

0,70

0,90

0,20

0,30

FLOOR PLAN AND SECTION

MODEL

CLASSIFICATION AND PROPERTIES

Interior - Furniture

Cancel OK

MOBILIARIO

Size: 7,60 2,40

DIBUJO DIGITAL

- Site
- Floor Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
- Ceiling Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
- Structural Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
- Sections
- Elevations
 - East Elevation
 - North Elevation

Properties

- 0. PLANTA BAJA
- 02 Drafting
- 1:50
- 03 Building Plans

Settings...

GRAPHISOFT ID

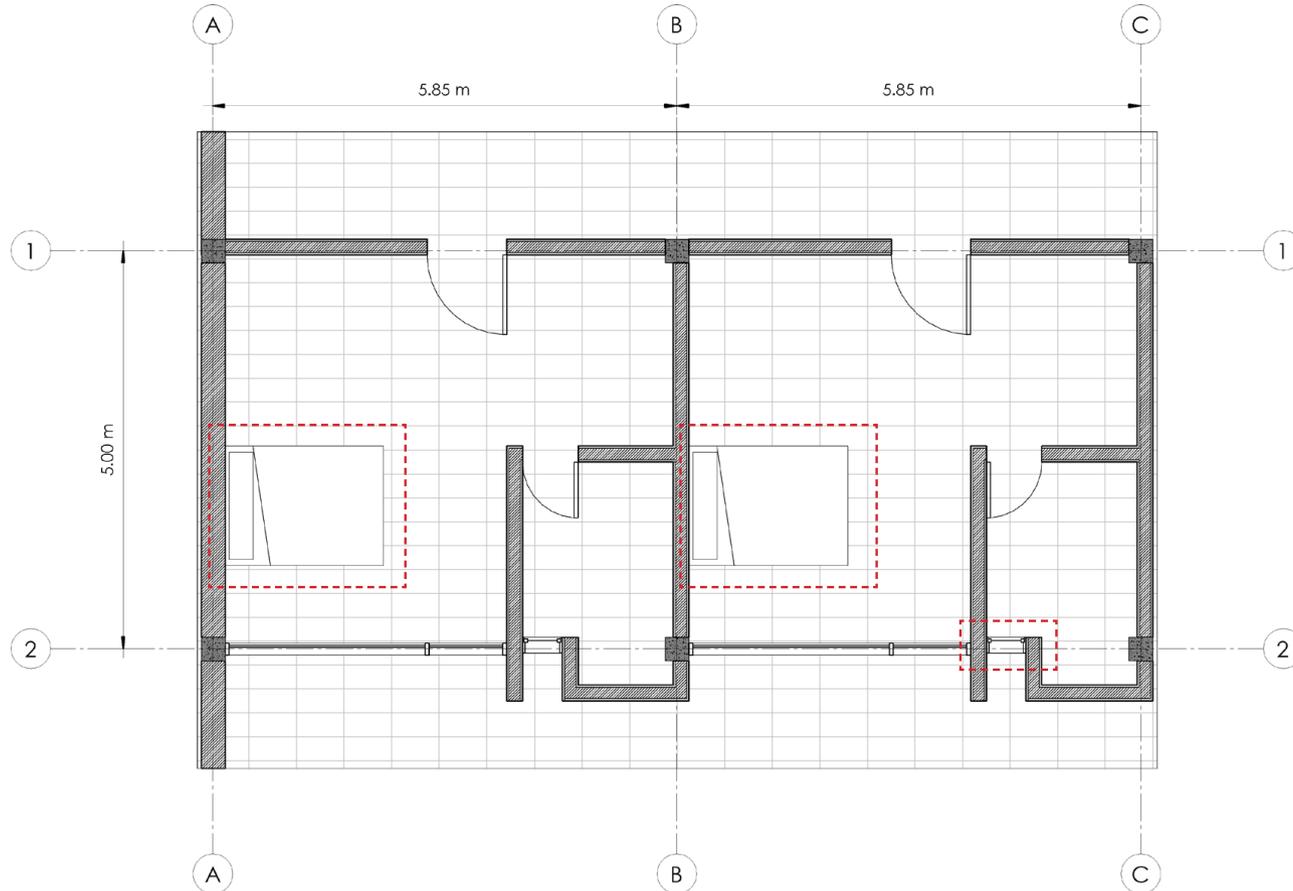
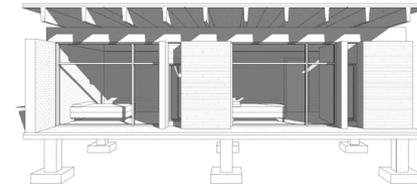
ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM

The screenshot shows a BIM software interface. On the left is a project tree with the following structure:

- DIBUJO DIGITAL
 - Stories
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA** (highlighted with a red box)
 - 1. CIMENTACIÓN
 - Sections
 - S-01 Building Sectio
 - Elevations
 - East Elevation (Auto
 - North Elevation (Aut
 - South Elevation (Aut
 - West Elevation (Aut
 - Interior Elevations
 - Worksheets
 - Details
 - 3D Documents
 - 3D
 - Generic Perspective
 - Generic Axonometry
 - 00 Untitled Path
 - Camera 1
 - Schedules
 - Project Indexes

At the bottom, the Properties panel shows:

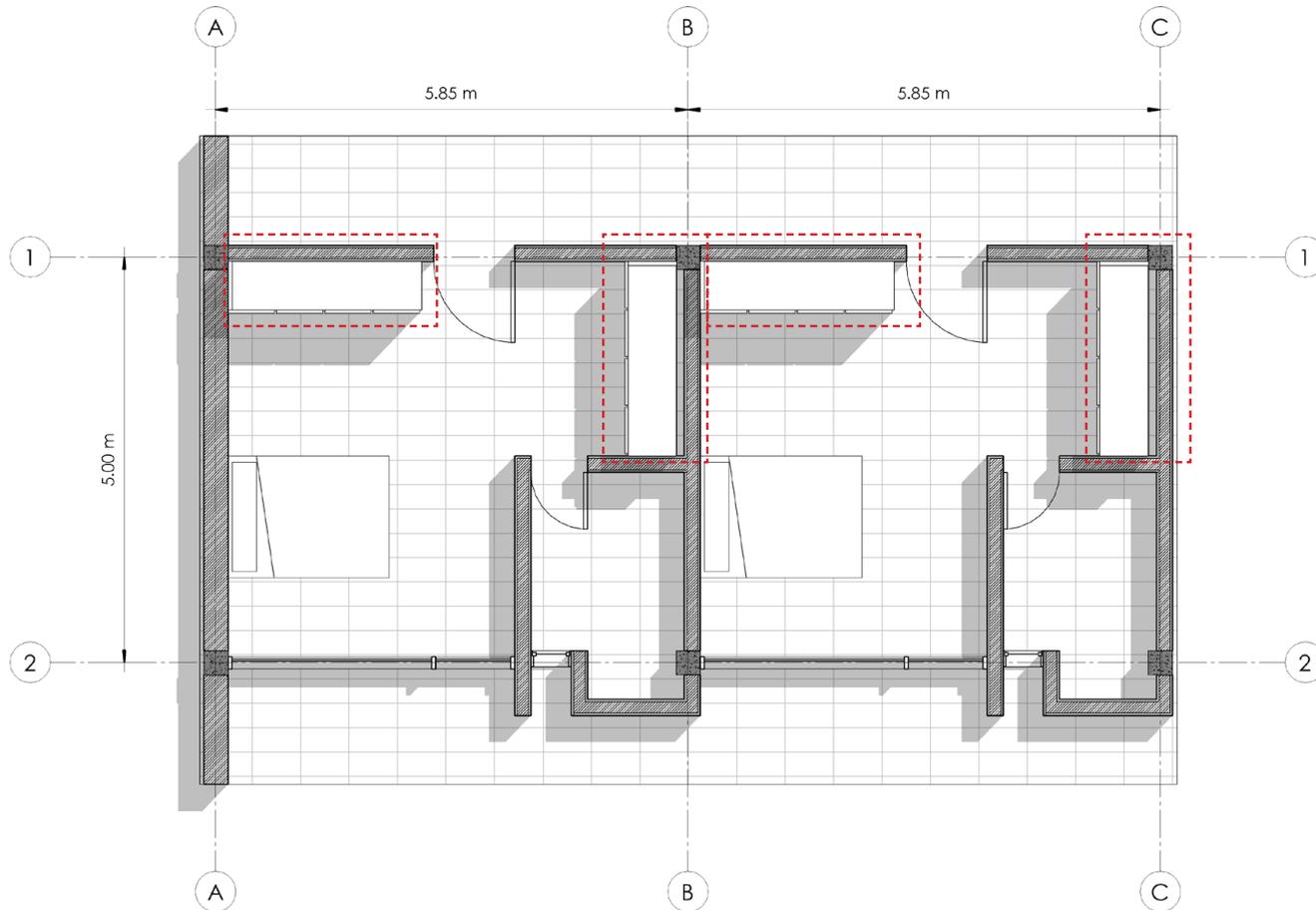
- 0. PLANTA BAJA
- Settings...



DIBUJO DIGITAL

16

MOBILIARIO



ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM

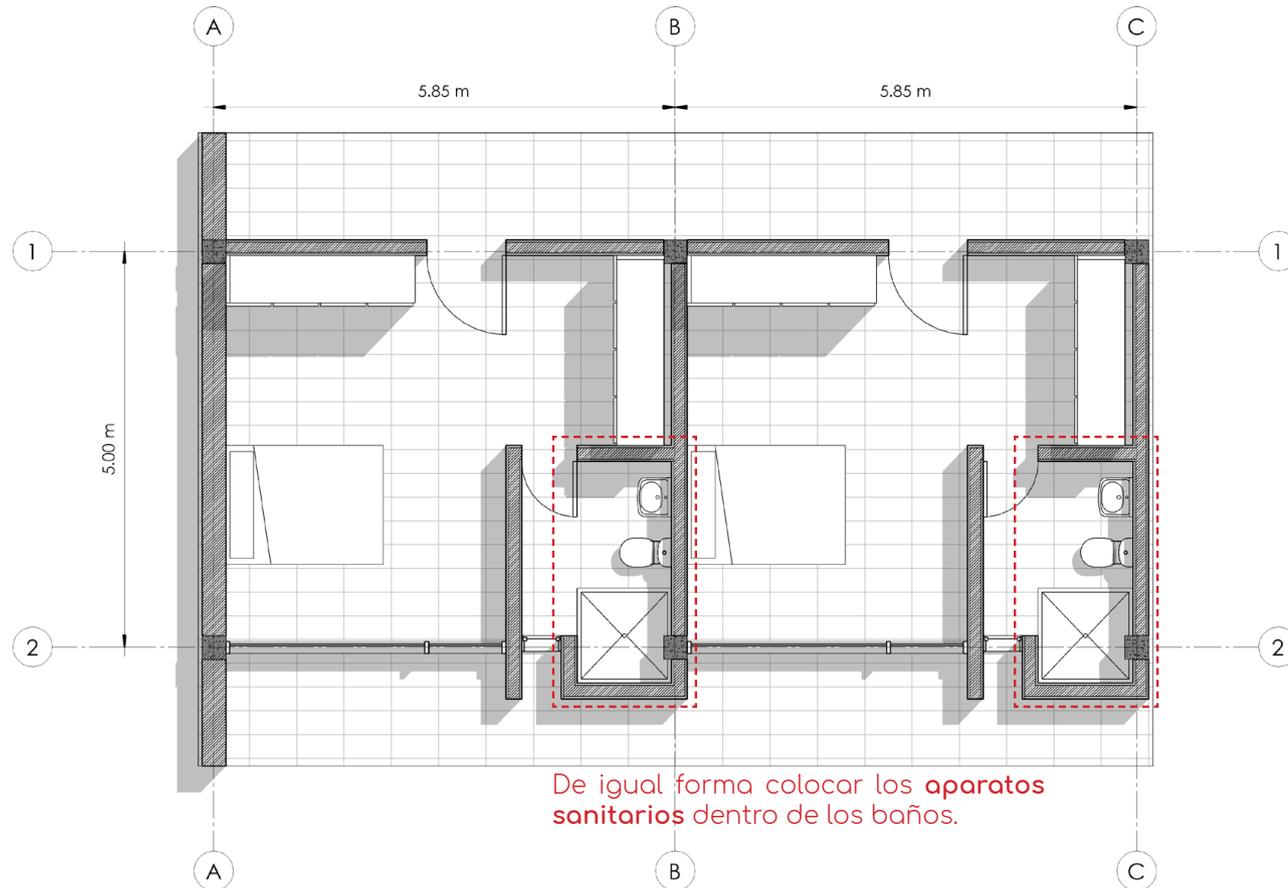
DIBUJO DIGITAL

- Stories
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA**
 - 1. CIMENTACIÓN
- Sections
 - S-01 Building Sectio
- Elevations
 - East Elevation (Auto
 - North Elevation (Aut
 - South Elevation (Aut
 - West Elevation (Aut
- Interior Elevations
- Worksheets
- Details
- 3D Documents
- 3D
 - Generic Perspective
 - Generic Axonometry
- 00 Untitled Path
 - Camera 1
- Schedules
- Project Indexes

Properties

0. PLANTA BAJA

Settings...

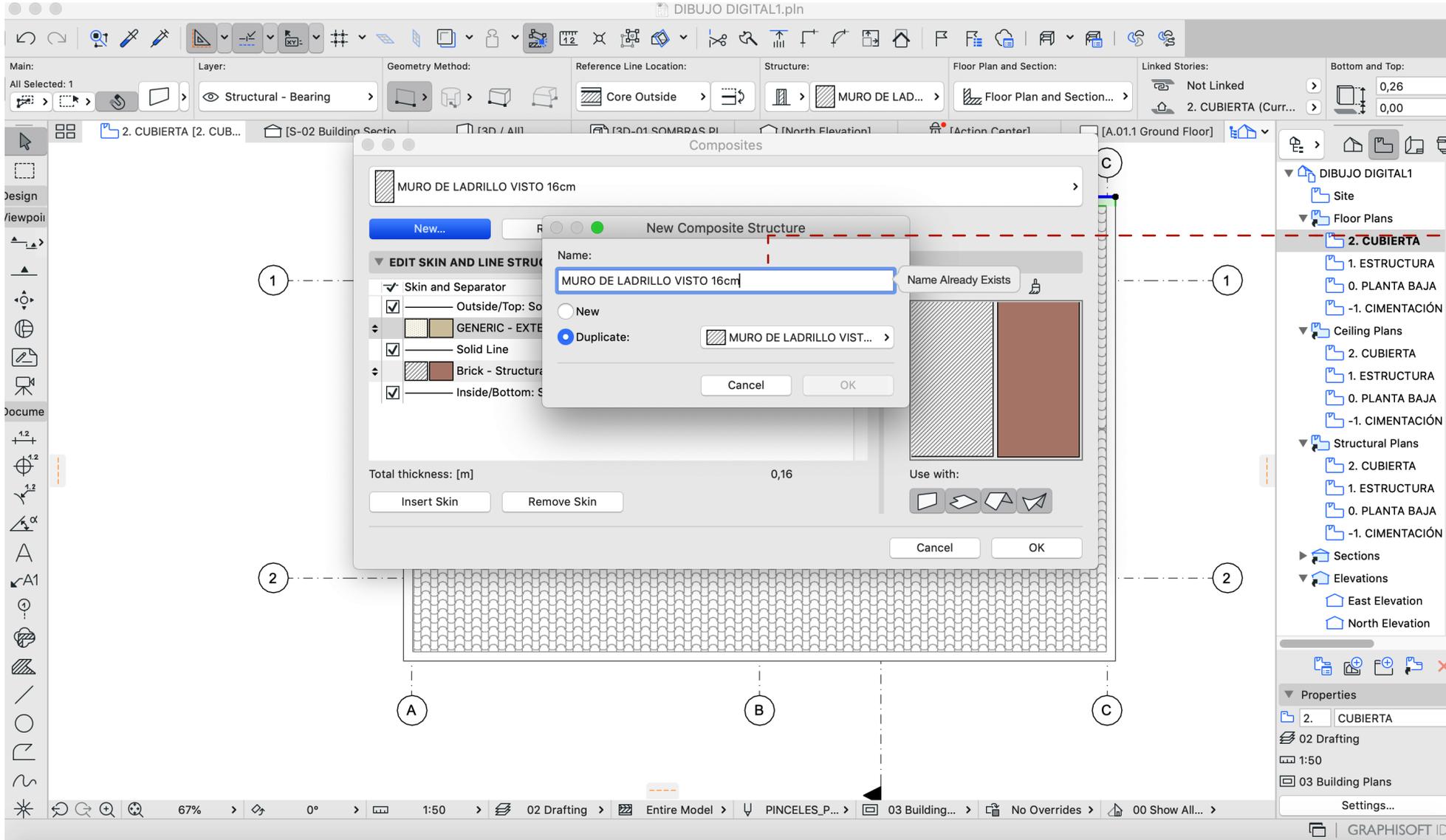


De igual forma colocar los **aparatos sanitarios** dentro de los baños.

DIBUJO DIGITAL

17

CUBIERTA



1. CONFIGURAR UN NUEVO MURO DE LADRILLO VISTO

Considerar que este muros debe tener un espesor de 16cm

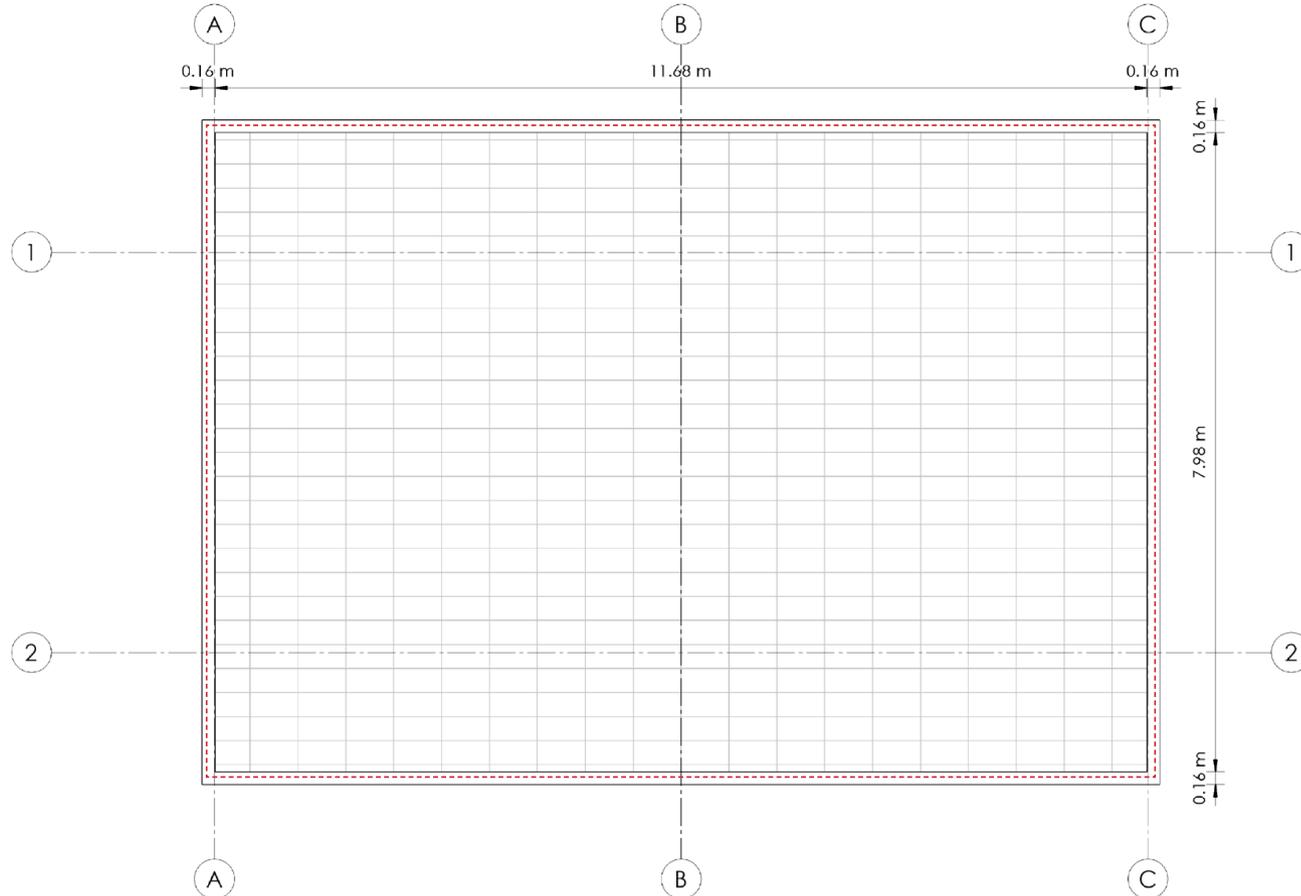
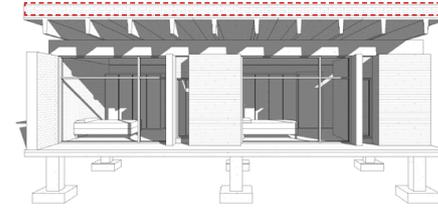
ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM

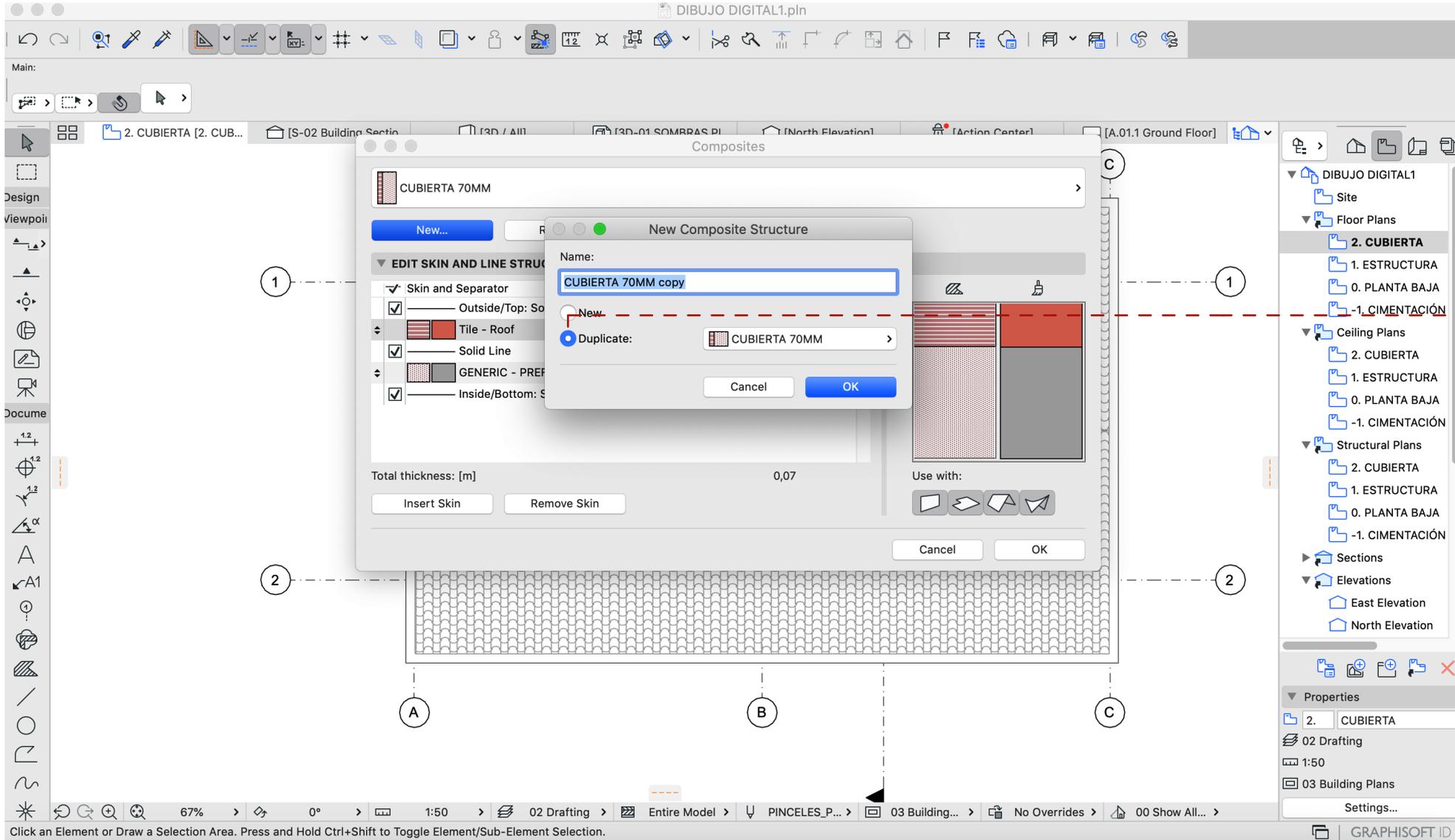
The screenshot shows a BIM software interface. On the left is a project tree with the following structure:

- DIBUJO DIGITAL1
 - Site
 - Floor Plans
 - 2. CUBIERTA** (highlighted)
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Ceiling Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Structural Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Sections
 - Elevations
 - East Elevation
 - North Elevation

At the bottom, there is a Properties panel with the following information:

- 2. CUBIERTA
- 02 Drafting
- 1:50
- 03 Building Plans
- Settings...





1. DUPLICAR COMPUESTO
COMPUESTO
DUPLICAR
CUBIERTA 70mm

EDICIÓN DE ESTRUCTURA DE CUBIERTA

2. EDITAR ESTRUCTURA

5 cm chapa de hormigón
2cm recubrimiento cerámico

DIBUJO DIGITAL

17

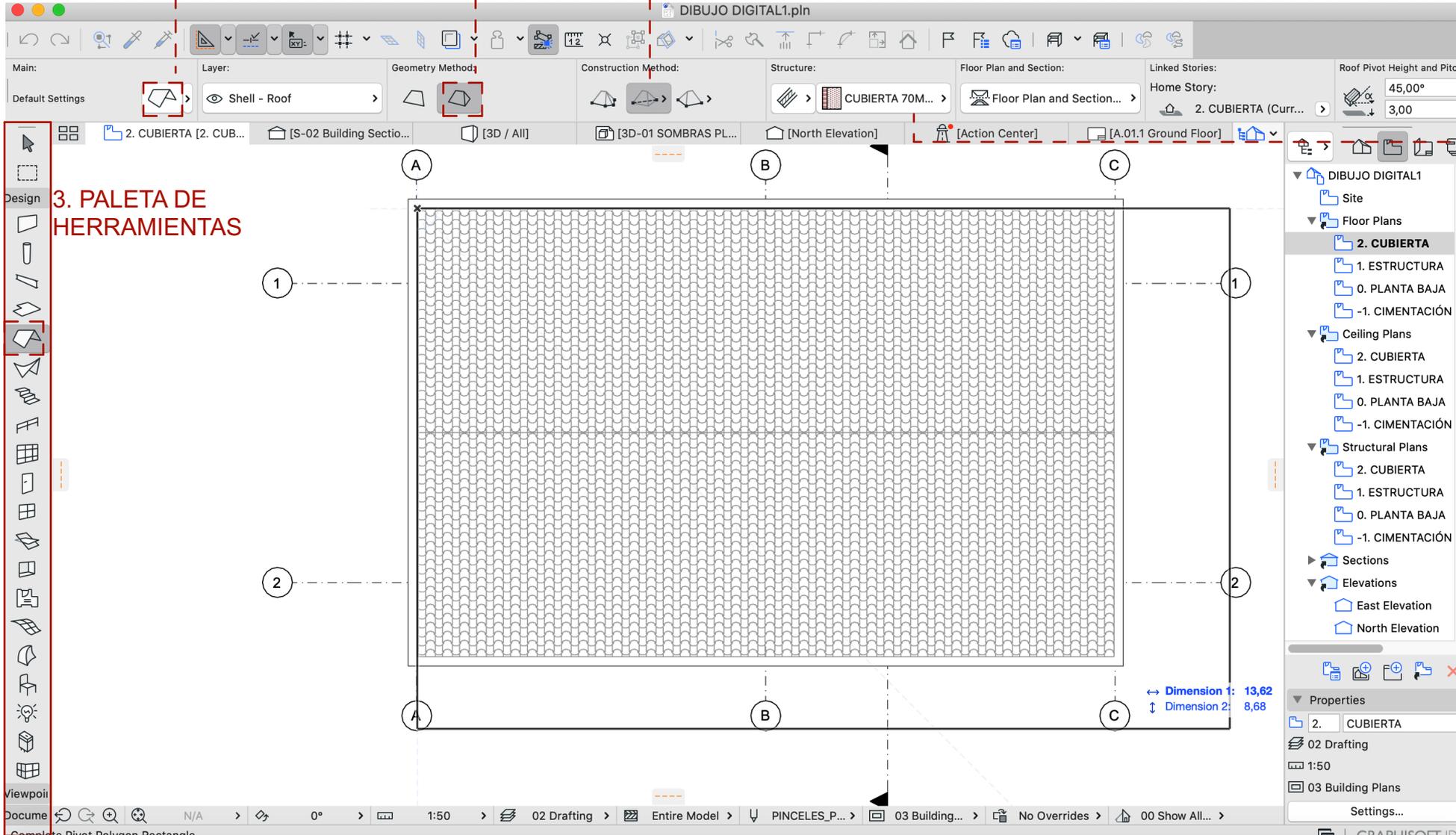
4. COMANDO A UTILIZAR

Cubierta

5. MÉTODO DE DIBUJAR LAS CUBIERTAS EN PENDIENTE

Considerar las líneas que definen pendiente dentro de la cubierta

CUBIERTA. PENDIENTE



3. PALETA DE HERRAMIENTAS

6. CUBIERTA EDITADA

5 cm chapa de hormigón
2cm recubrimiento cerámico

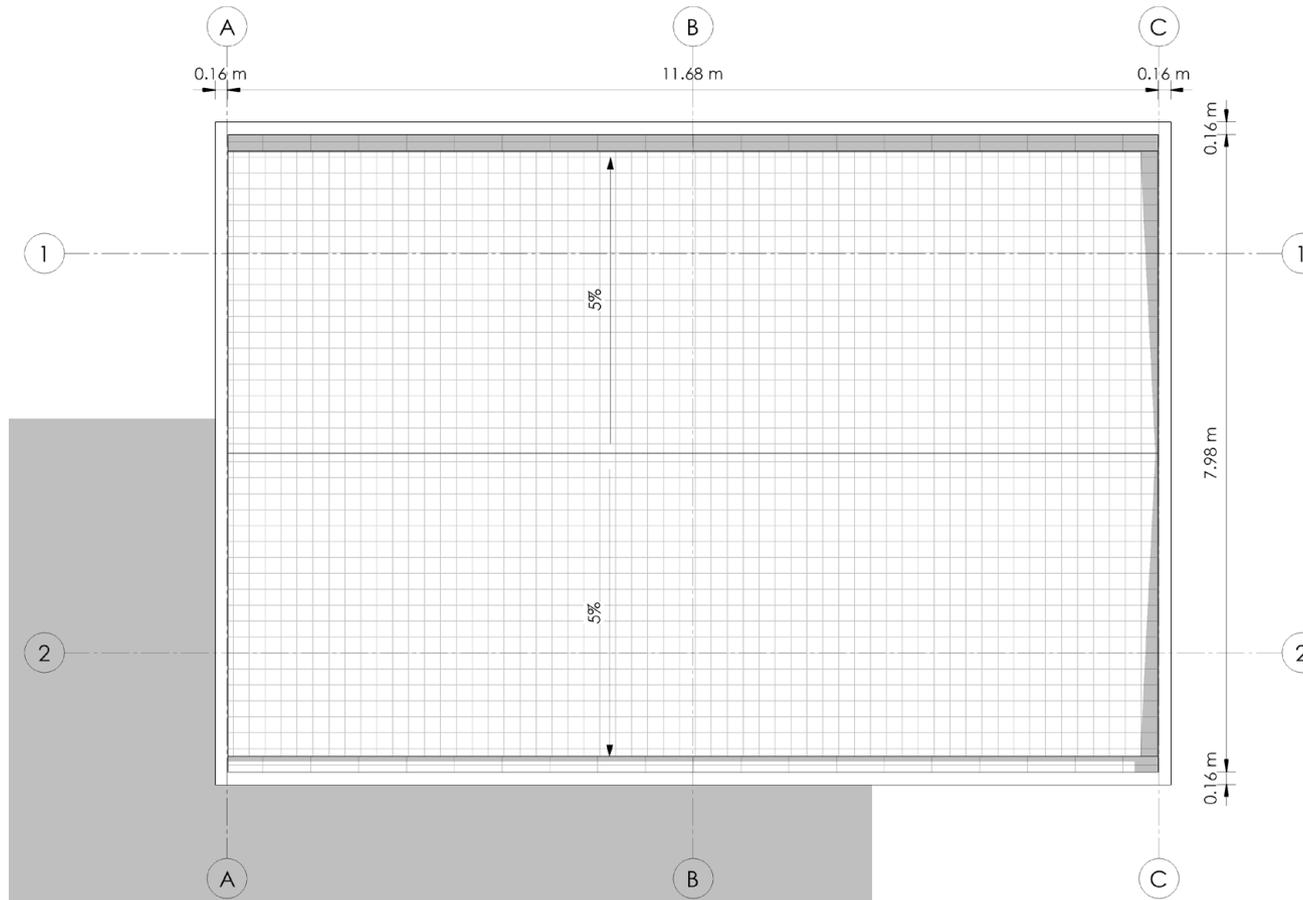
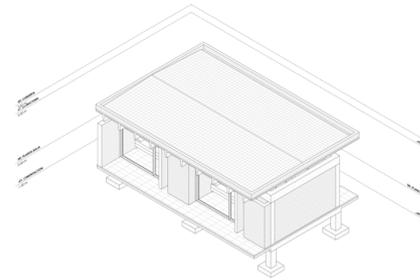
ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM

The screenshot shows a BIM software interface. On the left is a project tree with the following structure:

- DIBUJO DIGITAL1
 - Site
 - Floor Plans
 - 2. CUBIERTA** (highlighted with a red box)
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Ceiling Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Structural Plans
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA
 - 1. CIMENTACIÓN
 - Sections
 - Elevations
 - East Elevation
 - North Elevation

At the bottom, there is a Properties panel showing:

- 2. CUBIERTA
- 02 Drafting
- 1:50
- 03 Building Plans
- Settings...



DIBUJO DIGITAL

18

2. COMANDO A UTILIZAR Acotación

ACOTACIONES

The screenshot displays the ARCHICAD interface with a technical drawing of a building section. A red box highlights the 'Dimensioning' tool in the left-hand toolbar, labeled '1. PALETA DE HERRAMIENTAS'. Another red box highlights the 'Dimensioning - General' tool in the top toolbar, labeled '2. COMANDO A UTILIZAR Acotación'. A 'Dimension Default Settings' dialog box is open in the center, showing various configuration options for dimensioning, such as 'Dimension Type', 'Marker Type', 'Text Style', and 'Marker and Witness Line Options'. The background drawing shows a wall section with grid lines A, C, 1, and 2, and dimension lines with arrows and numerical values.

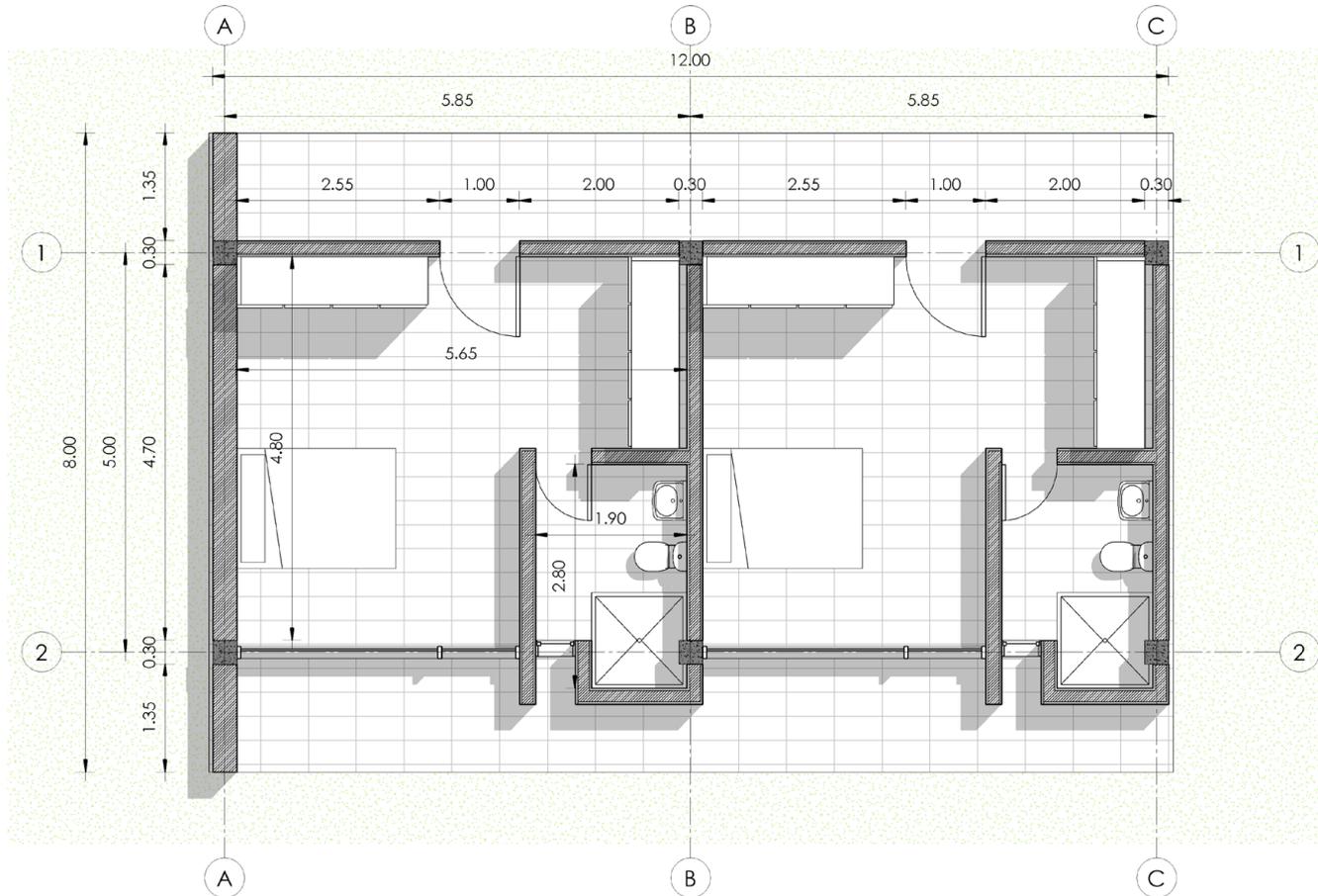
En esta paleta de herramientas encontramos todas las funciones de acotaciones para plantas y elevaciones dentro del ARCHICAD. Considerar el orden de las cotas desde las totales, las de la rejilla estructural y finalmente las de los elementos arquitectónicos como muros, puertas y ventanas

ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM

The screenshot shows the left-hand navigation pane of a BIM software application. The tree structure is as follows:

- DIBUJO DIGITAL
 - Stories
 - 2. CUBIERTA
 - 1. ESTRUCTURA
 - 0. PLANTA BAJA** (highlighted with a red box)
 - 1. CIMENTACIÓN
 - Sections
 - S-01 Building Sectio
 - Elevations
 - East Elevation (Auto
 - North Elevation (Aut
 - South Elevation (Aut
 - West Elevation (Aut
 - Interior Elevations
 - Worksheets
 - Details
 - 3D Documents
 - 3D
 - Generic Perspective
 - Generic Axonometry
 - 00 Untitled Path
 - Camera 1
 - Schedules
 - Project Indexes

At the bottom, the Properties panel shows the current selection as '0. PLANTA BAJA'.



DIBUJO DIGITAL

19

CONFIGURAR ELEVACIONES

Modos de visualización de los modelos en ARCHICAD

SOMBRAS

Elevation Selection Settings

Selected: 4 Editable: 4

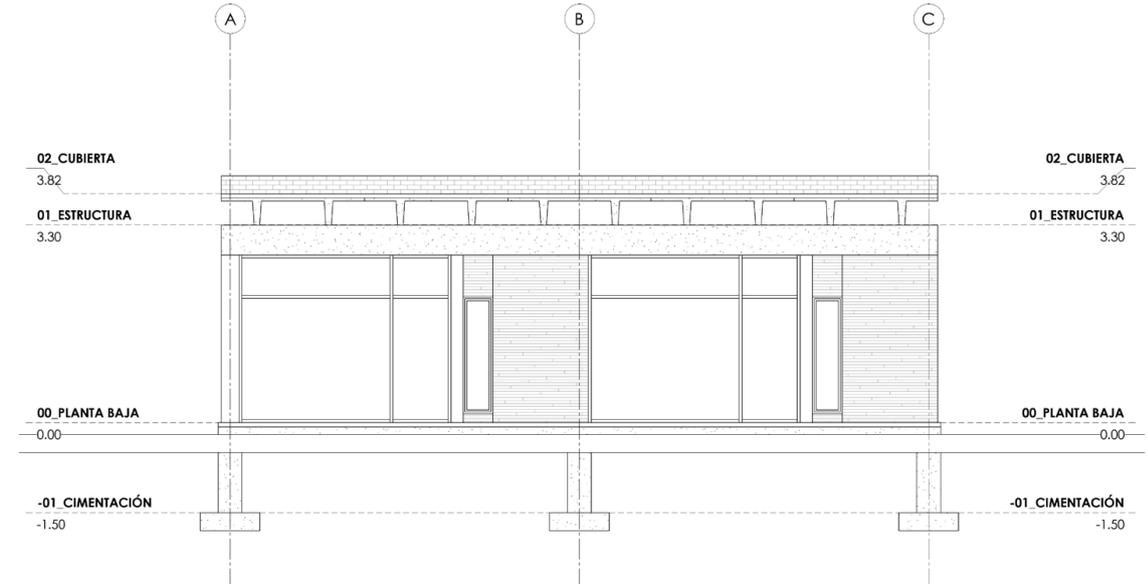
- GENERAL
- MARKER
- MARKER TEXT STYLE
- MARKER SYMBOL AND TEXT
- MODEL DISPLAY
 - Uncut Elements Pen: 0.15 mm, 2
 - Vectorial 3D Hatching:
 - Transparency:
 - SUN AND SHADOWS
 - Viewpoint Sun Settings: Custom
 - Sun Azimuth: 45,00°
 - Sun Altitude: 45,00°
 - Sun Shadow:
 - Shadow Polygons: 25 %
 - Fill Pen: 0.15 mm, 2
 - Fill Background Pen: Transparent, 0
 - MARKED DISTANT AREA:
 - Fill Uncut Surfaces with: Uniform Pen Color
 - Uncut Surfaces Pen: Window Background, -1
 - Uniform Pen for Uncut Elements:
 - Uncut Elements Pen: 0.05 mm, 120
 - Vectorial 3D Hatching:
 - Sun Shadow:
 - Shadow Polygons: 25 %
 - Fill Pen: Fill Type: 25 %, 81
 - Fill Background Pen: Transparent, 0
 - ELEMENT CONTOURS AT ELEVATION BOUNDARY
 - Add Element Contours: None
 - STORY LEVELS
 - STORY LEVELS TEXT STYLE
 - STORY LEVELS SYMBOL AND TEXT
 - GRID TOOL

Marker - Elevation

Cancel OK

ACTIVAR AREA DISTANTE MARCADA
Poner una pluma mas fina que las anteriores y con un gris mas bajo

ACTIVAR AREA SOLAR PARA EL AREA DISTANTE MARCADA



1. PALETA DE HERRAMIENTAS



CONFIGURAR SECCIONES

2. COMANDO A UTILIZAR
Sección

Section Selection Settings

Selected: 1 Editable: 1

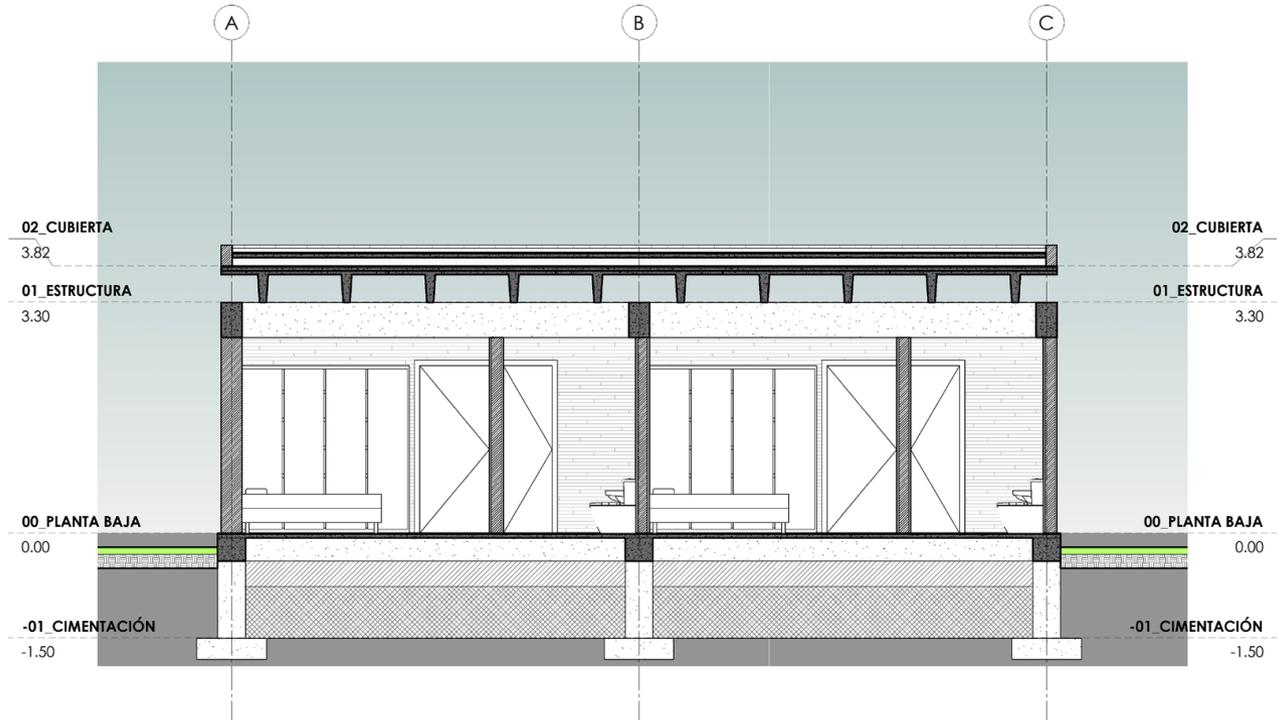
- GENERAL
- MARKER
- MARKER TEXT STYLE
- MARKER SYMBOL AND TEXT
- MODEL DISPLAY
 - Fill Cut Surfaces with: Cut Fills - as in Settings
 - Uniform Pen for Cut Elemen...
 - Cut Line Pen 0.35 mm 21 
 - Cut Fill Pen 0.13 mm 1 
 - Cut Fill Background Pen Transparent 0 
 - UNCUT ELEMENTS
 - Fill Uncut Surfaces with: Uniform Pen Color
 - Uncut Surfaces Pen Window Background -1 
 - Uniform Pen for Uncut Elem...
 - Uncut Elements Pen 0.13 mm 1 
 - Vectorial 3D Hatching
 - Transparency
 - SUN AND SHADOWS
 - Viewpoint Sun Settings Custom
 - Sun Azimuth 45,00°
 - Sun Altitude 45,00°
 - Sun Shadow
 - MARKED DISTANT AREA
 - Fill Uncut Surfaces with: Uniform Pen Color
 - Uncut Surfaces Pen Window Background -1 
 - Uniform Pen for Uncut Elem...
 - Uncut Elements Pen 0.05 mm 120 
 - Vectorial 3D Hatching
 - ELEMENT CONTOURS AT SECTION BOUNDARY
- STORY LEVELS
- STORY LEVELS TEXT STYLE
- STORY LEVELS SYMBOL AND TEXT
- GRID TOOL

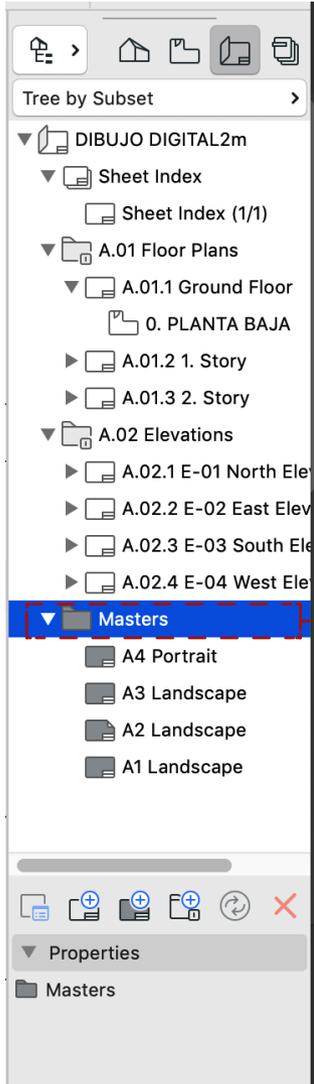
Marker - Section

ELEMENTOS CORTADOS

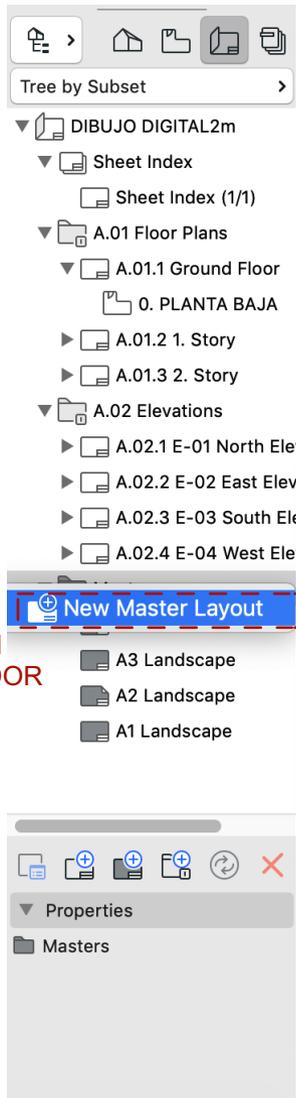
ELEMENTOS NO CORTADOS

AREA DISTANTE MARCADA

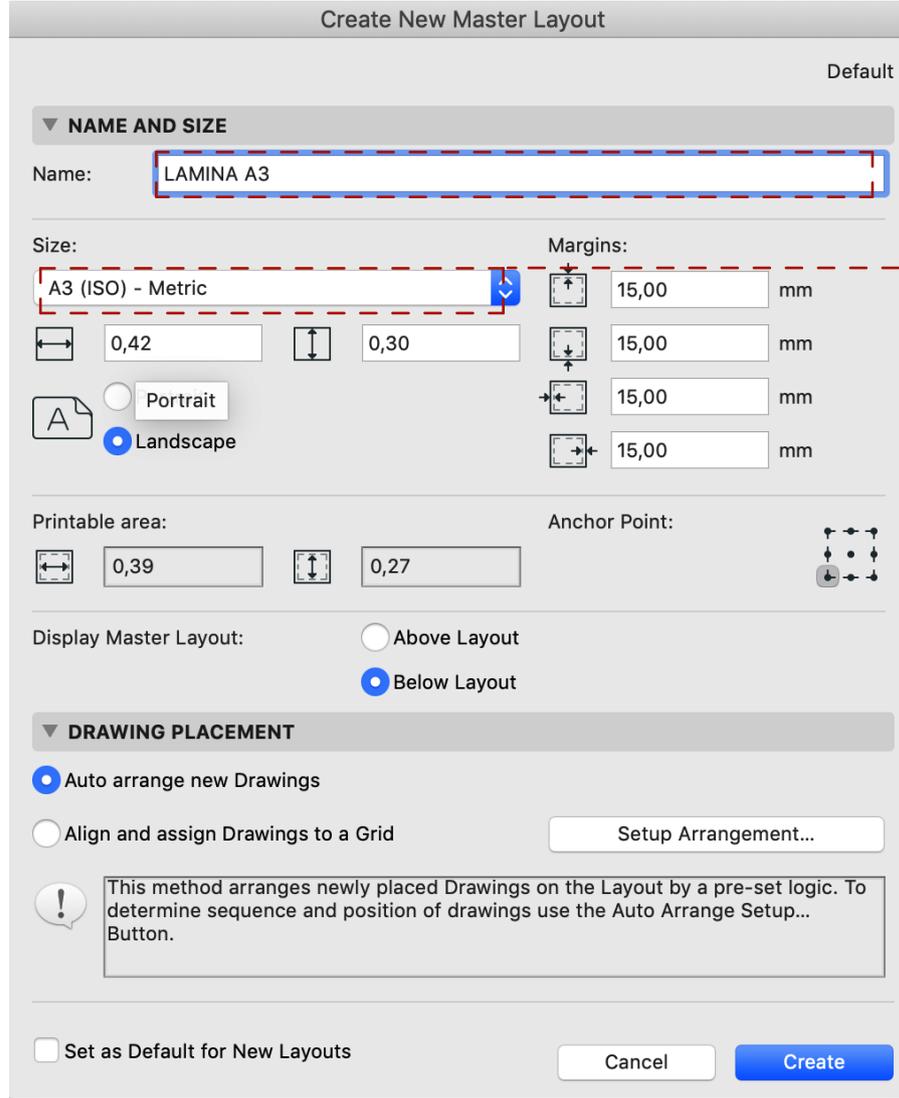




1. UBICAR EN EL NAVEGADOR

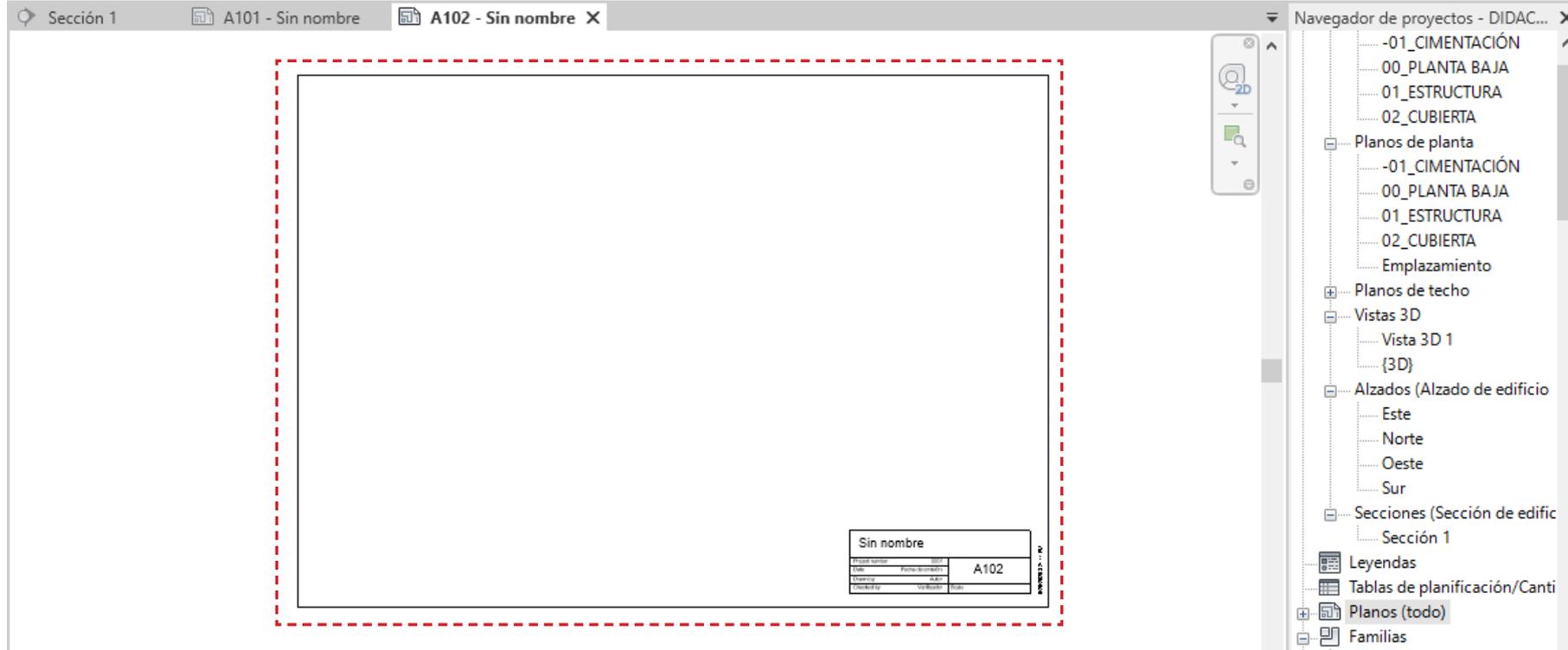


2. NUEVO PLANO



3. CREAR UN NUEVA LAMINA EN A3

ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM



3. ESPACIO A3 LISTO PARA EL ARMADO DE LÁMINAS

ARMADO DE LÁMINAS

Sección 1 A101 - Sin nombre A102 - Sin nombre X

Navegador de proyectos - DIDAC...

- Vistas (todo)
- Planos estructurales
 - 01_CIMENTACIÓN
 - 00_PLANTA BAJA
 - 01_ESTRUCTURA
 - 02_CUBIERTA
- Planos de planta
 - 01_CIMENTACIÓN
 - 00_PLANTA BAJA
 - 01_ESTRUCTURA
 - 02_CUBIERTA
 - Emplazamiento
- Planos de techo
- Vistas 3D
 - Vista 3D 1
 - {3D}
- Alzados (Alzado de edificio)
 - Este
 - Norte
 - Oeste
 - Sur
- Secciones (Sección de edificio)
 - Sección 1
- Leyendas
- Tablas de planificación/Canti

Sin nombre	
Proyecto	A102
Plan	
Plantilla	
Plantado por	

4. ARRASTRAR EL PLANO CONFIGURADO HACIA LA LÁMINA

ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM

Sección 1 A101 - Sin nombre A102 - Planta Baja X

00_PLANTA BAJA
1 : 50

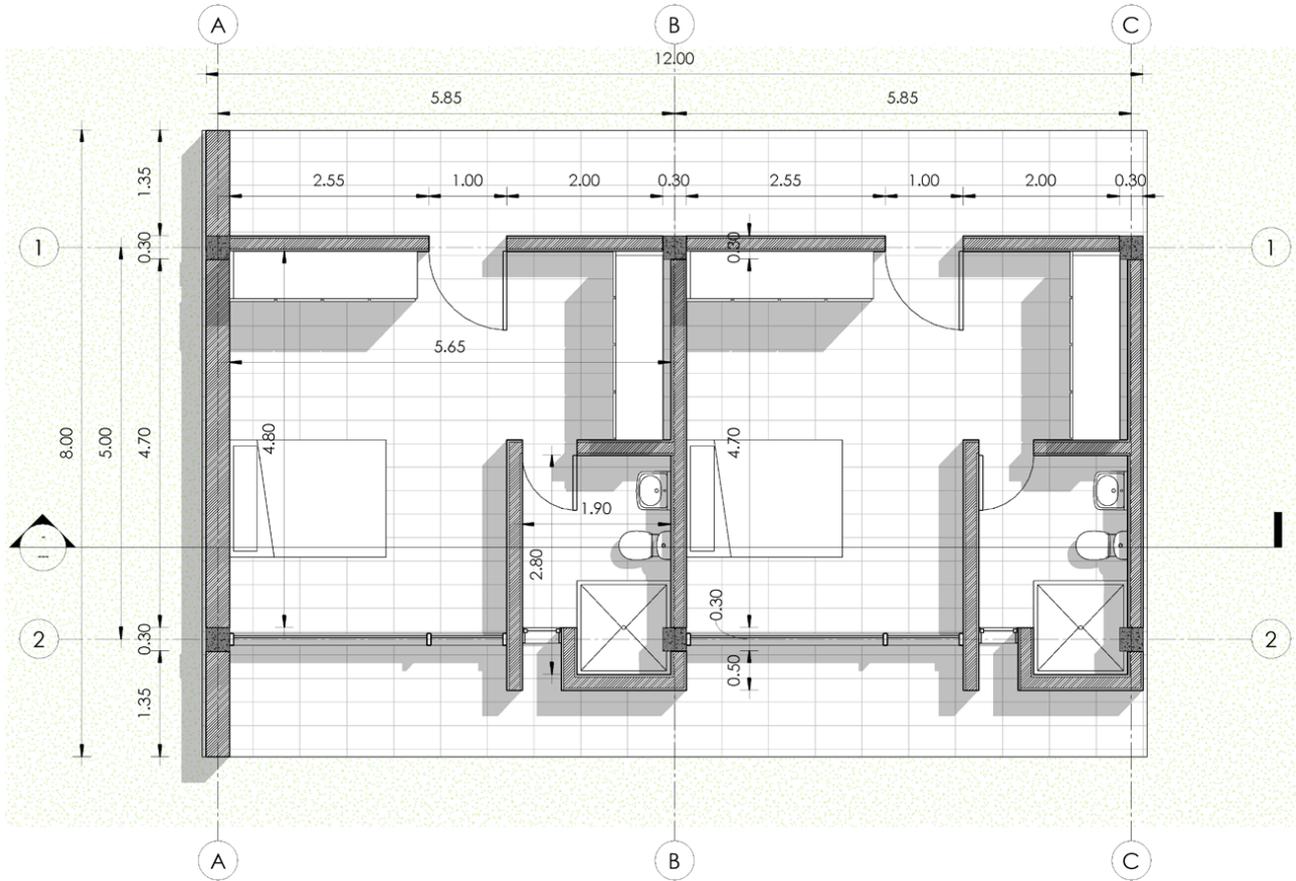
Planta Baja	
Nombre	A102
Fecha	2024/12/20
Elaborado por	ASG
Revisado por	ASG

Navegador de proyectos - DIDAC... X

- M_Extremo de llamada
- M_Extremo final de secc
- M_Extremo final de secc
- M_Extremo inicial de niv
- M_Extremo inicial de niv
- M_Extremo inicial de rej
- M_Extremo inicial de rej
- M_Extremo inicial de sec
- M_Extremo inicial de sec
- M_Extremo inicial de sec
- M_Flecha de norte-2
- M_Grid Head - Circle
- M_Línea central
- M_Puntero de marca de
- M_Referencia a vista
- M_Título de vista
- Techos
- Tuberías
- Tuberías flexibles
- Tubos
- Vegetación
- Ventanas

5. ENCAJAR EL ELEMENTO BIDIMENSIONAL DENTRO DEL ESPACIO DE IMPRESIÓN

ARMADO DE LÁMINAS



1 00_PLANTA BAJA
1 : 50

Planta Baja	
Project number	0001
Date	29-05-2020
Drawn by	DGC
Checked by	AGS
Scale	1 : 50

5/29/2020 8:41:47 PM

ELABORACIÓN DE PLANOS CON HERRAMIENTAS BIM

