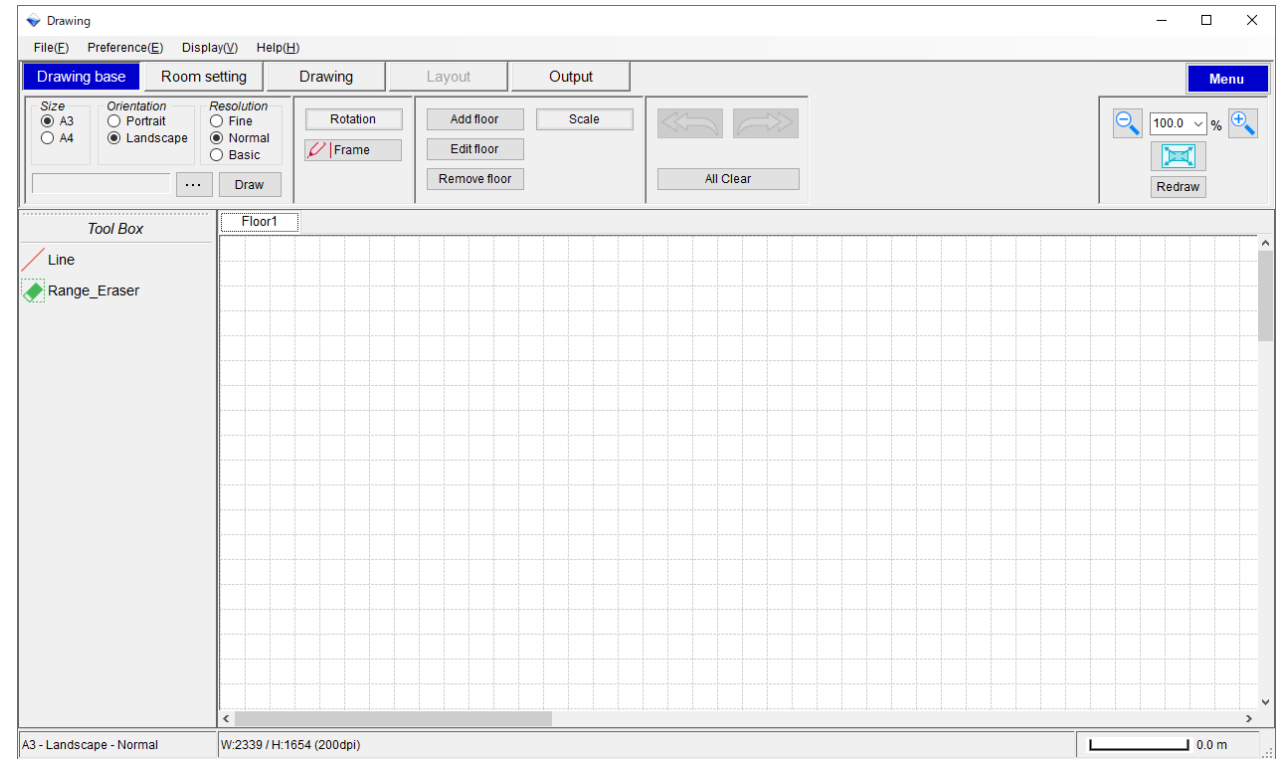
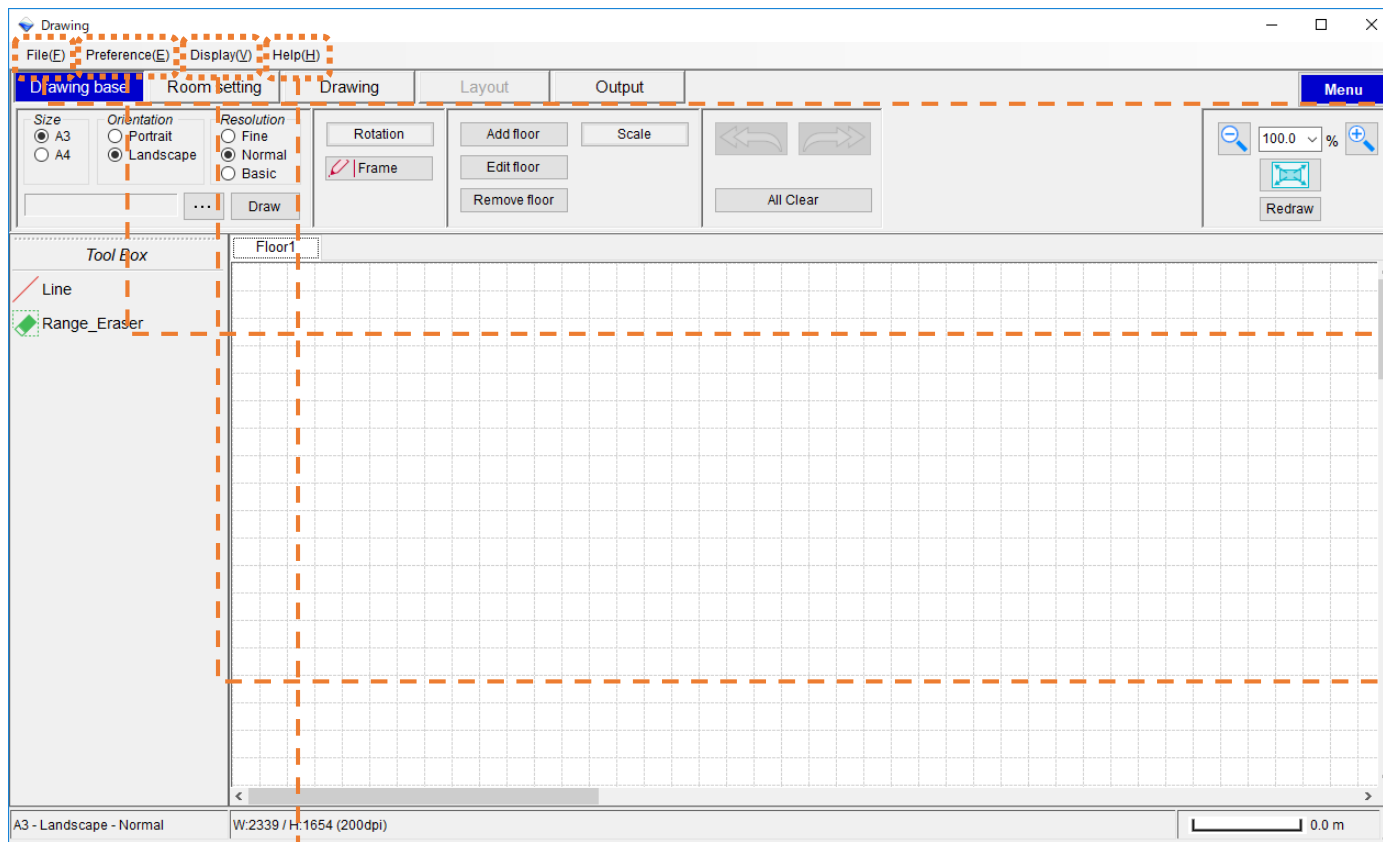




Select "Drawing Design"

Drawing Design screen (Drawing base)





File

File(F)

Exit(X)

: Go to menu screen

Preference

Preference(E)



Preference

: Refer to "Preference"

Display

Display(V)



Display category



Navigation

Refrigerant

Optional parts

Explanatory notes

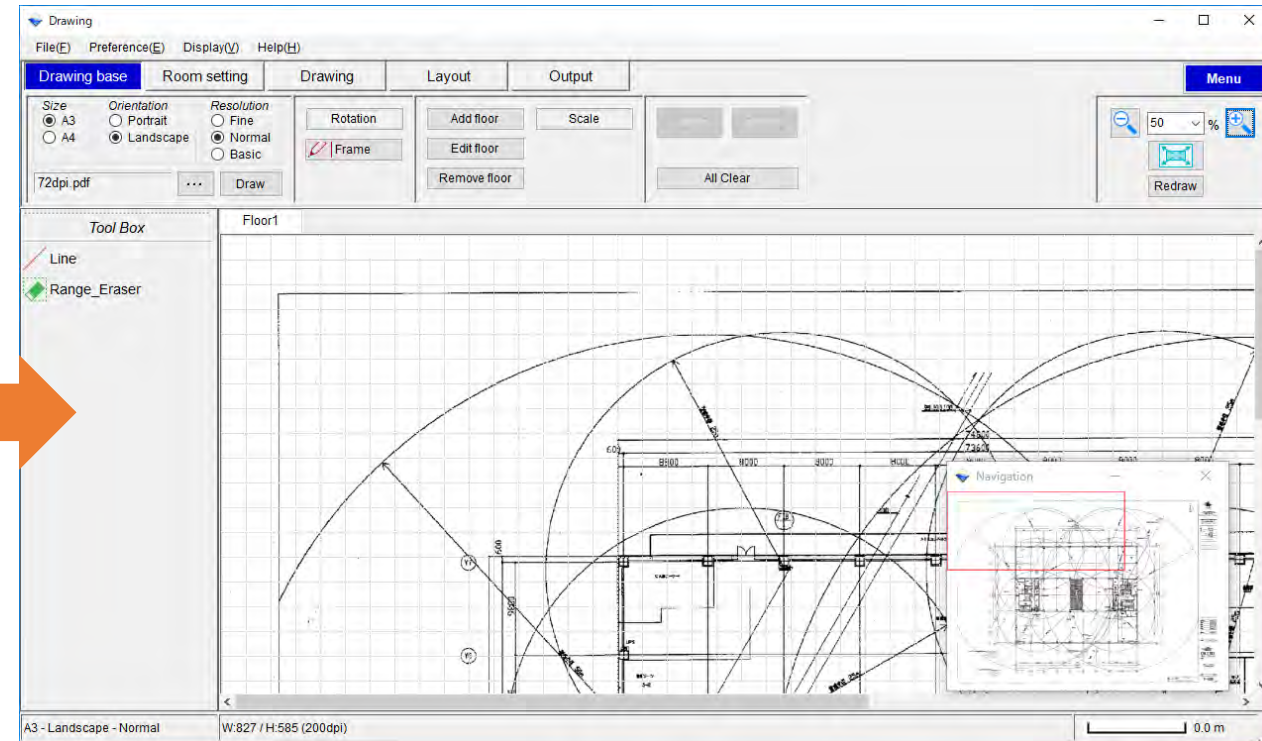
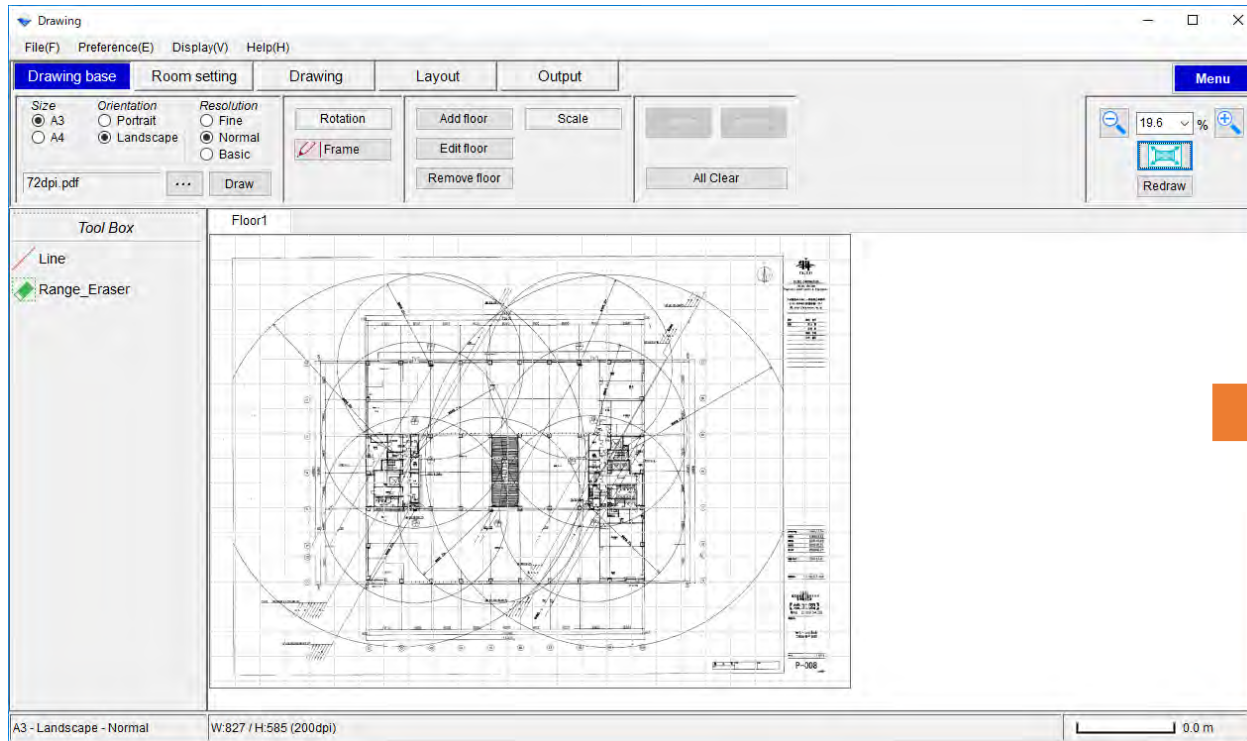
: Refer to "Display"

Help

Help(H)

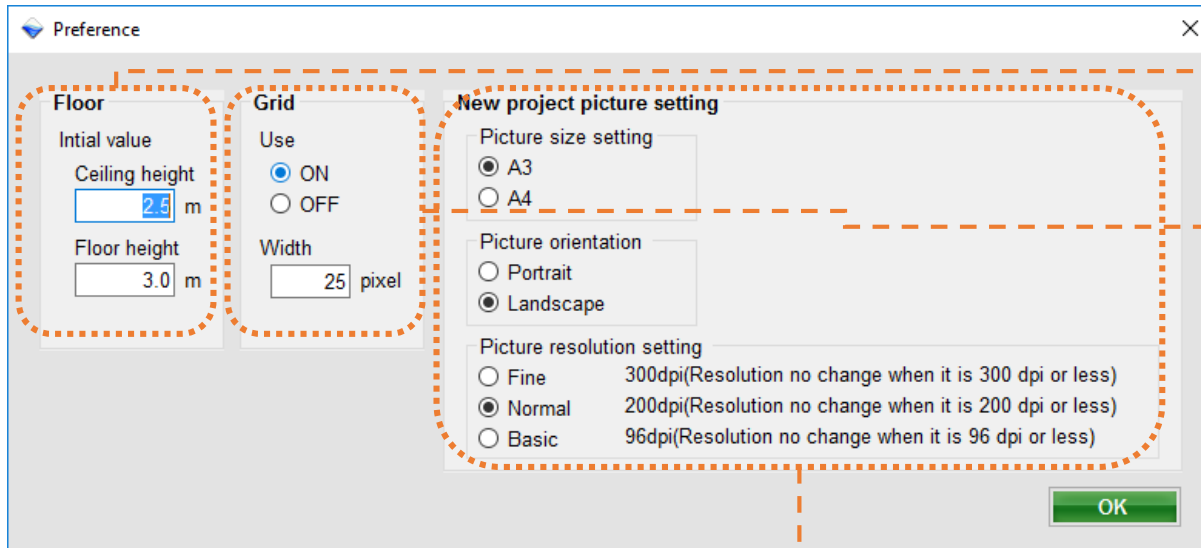
Manual

Display Manual



Navigation screen

When the image does not fit on one screen due to enlargement etc., the navigation screen is displayed and the part displayed on the screen is displayed with a red frame.



Floor

Sets the initial value of the floor

Grid

Use : Grid usage setting

Width : Set the width of the grid

New project picture setting

New project import picture setting

Picture size setting : Set capture size of picture

Picture orientation : Set the orientation of picture

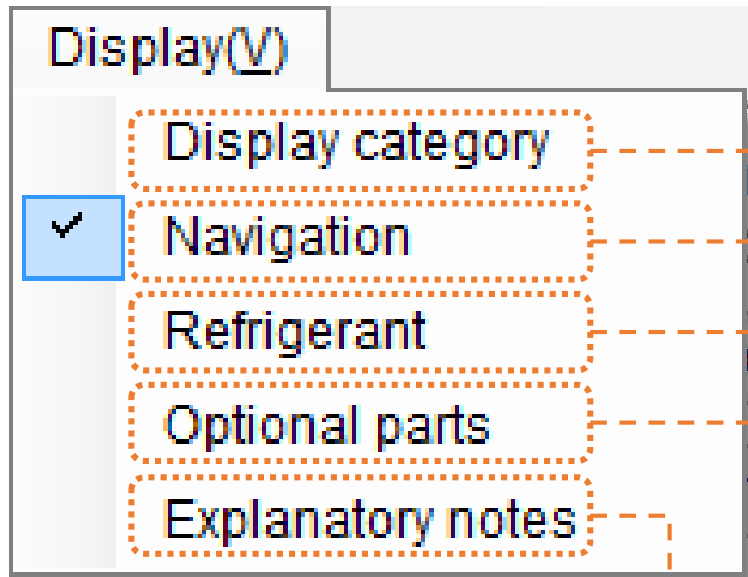
Picture resolution setting : Set picture resolution

Fine : Capture with resolution equivalent to 300 dpi

Normal : Capture with resolution equivalent to 200dpi

Basic : Capture with resolution equivalent to 96dpi

* Picture resolution setting is no change,
when picture resolution or less



Display category screen
Display category screen
The selected screen is overlaid and displayed

Display category	
<input checked="" type="checkbox"/>	Drawing base
<input checked="" type="checkbox"/>	Room setting
<input checked="" type="checkbox"/>	Drawing
<input checked="" type="checkbox"/>	Disposition
<input checked="" type="checkbox"/>	Piping
<input checked="" type="checkbox"/>	Wiring

Navigation
Display Navigation screen

Refrigerant
Display list of refrigerant equipment

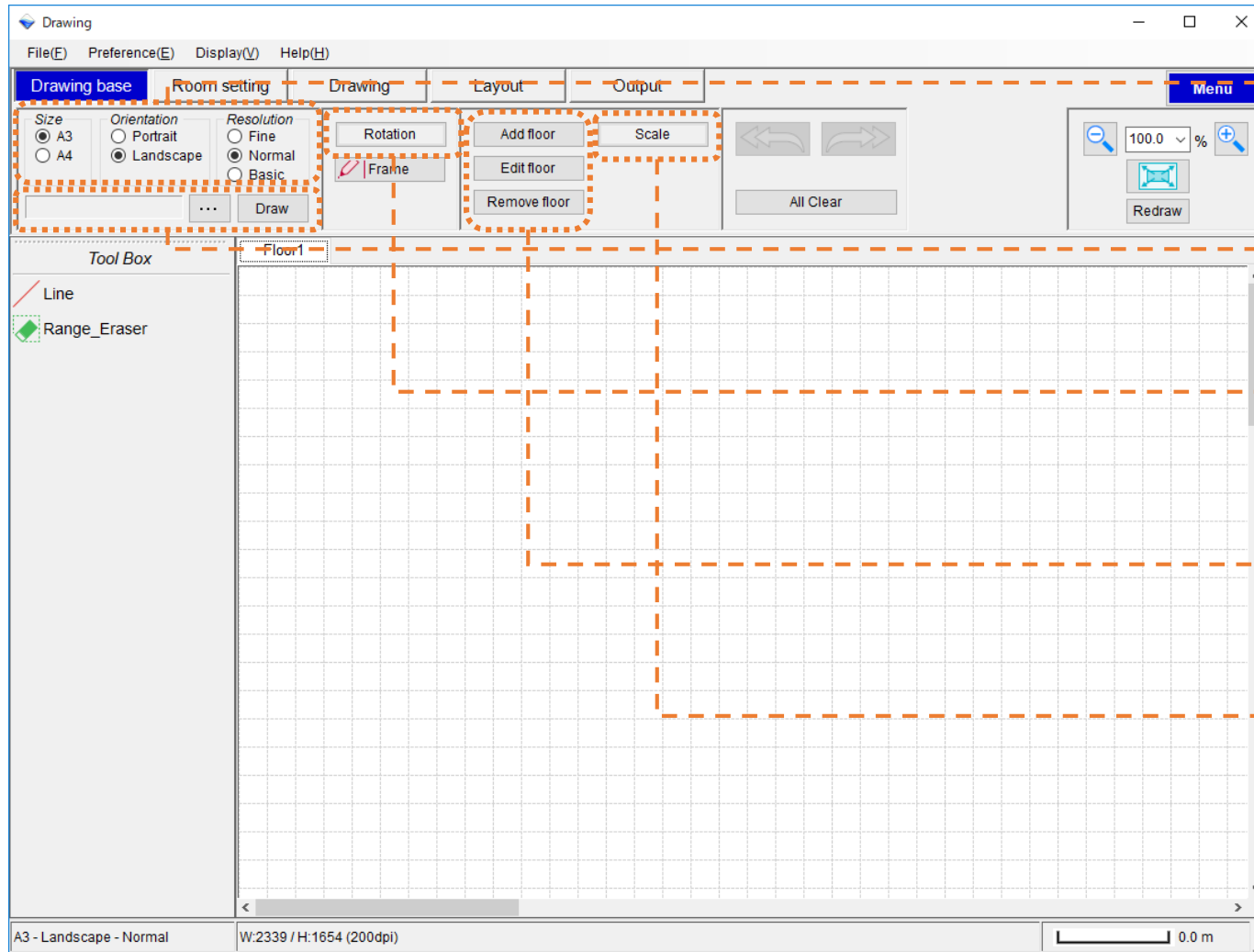
Name	Model	Capacity	Dimensions	Floor	Room
RB1	UTP-RU04BH	-	200x58x428		
Indr1	AUUB18TLAV	18kW / 20kW	245x840x840		
Indr2	AUUB18TLAV	18kW / 20kW	245x840x840		
Indr3	AUUB18TLAV	18kW / 20kW	245x840x840		
Indr4	AUUB18TLAV	18kW / 20kW	245x840x840		
Indr5	AUUB18TLAV	18kW / 20kW	245x840x840		
ChR2	AQUASCLCV	960W / 1080W	169x220x765		
RB1	UTP-RU01BH	-	198x298x268		
Indr6	AUUB18TLAV	18kW / 20kW	245x840x840		
Indr7	AUUB18TLAV	18kW / 20kW	245x840x840		
RB3	UTP-RU01AH	-	198x298x268		
Indr8	AUUB18TLAV	18kW / 20kW	245x840x840		
Indr9	AUUB18TLAV	18kW / 20kW	245x840x840		

Refrigerant
Display list of wiring terminal

Legend	Line	explain
T	X1,X2	Transmission
T1	1,2,3	Power line and Control line
TA	A,B,SGND	Transmission BACNet(Hardware)
TP	1,2,3	Power line
K1	K1,K2,K3	Network: Converter
A	1,2,3	2-6Multi Outdoor only Power line
B	1,2,3	2-6Multi Outdoor only Power line
C	1,2,3	2-6Multi Outdoor only Power line
D	1,2,3	2-6Multi Outdoor only Power line

Optional parts
Display list of Pipe and Branch and RB Unit Models

Legend	Liquid	Discharge Gas	Suction Gas
a)	9.52		9.52
b)	9.52		12.70
c)	9.52		15.88
d)	9.52		12.70
e)	9.52		15.88
f)	9.52		19.05
g)	9.52		22.22
h)	12.70		15.88



Picture import setting

- Size : Select the size of the picture
- Orientation : Select orientation a Import in picture
- Resolution : Select the resolution of the picture

Picture file setting

Refer to "Import picture file "

Rotation

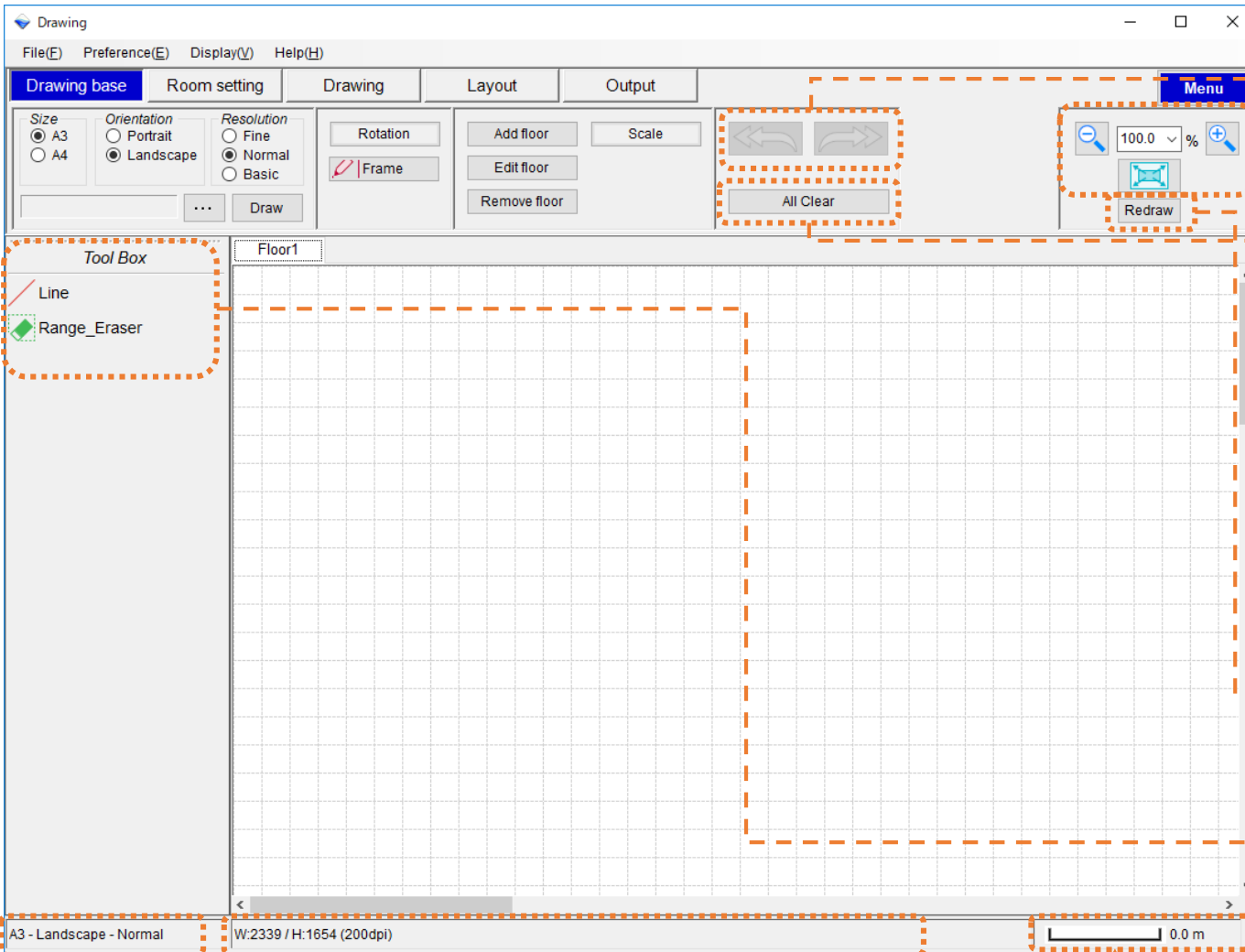
- Go to Rotation screen
- Refer to "Rotate setting"

Floor setting

- Add floor, Remove floor
- Edit floor : Refer to "Floor edit"





Scale

Refer to "Scale setting"



Undo , Redo (Tool Box , Scale , Rotation)
 Undo : Cancel the previous object drawing
 Redo : Redraw the previous canceled object

Clear
 Remove picture file and drawing objects

Zoom to
 : Zoom up
 : Zoom down
 : Select zoom
 : Full picture display

Redraw
 Draw the displayed picture again

Tool box
 Line : Draw a line
 Refer to "Tool box (1/2)"
 Range Eraser : Remove parts in a picture
 Refer to "Tool box (2/2)"

Message area

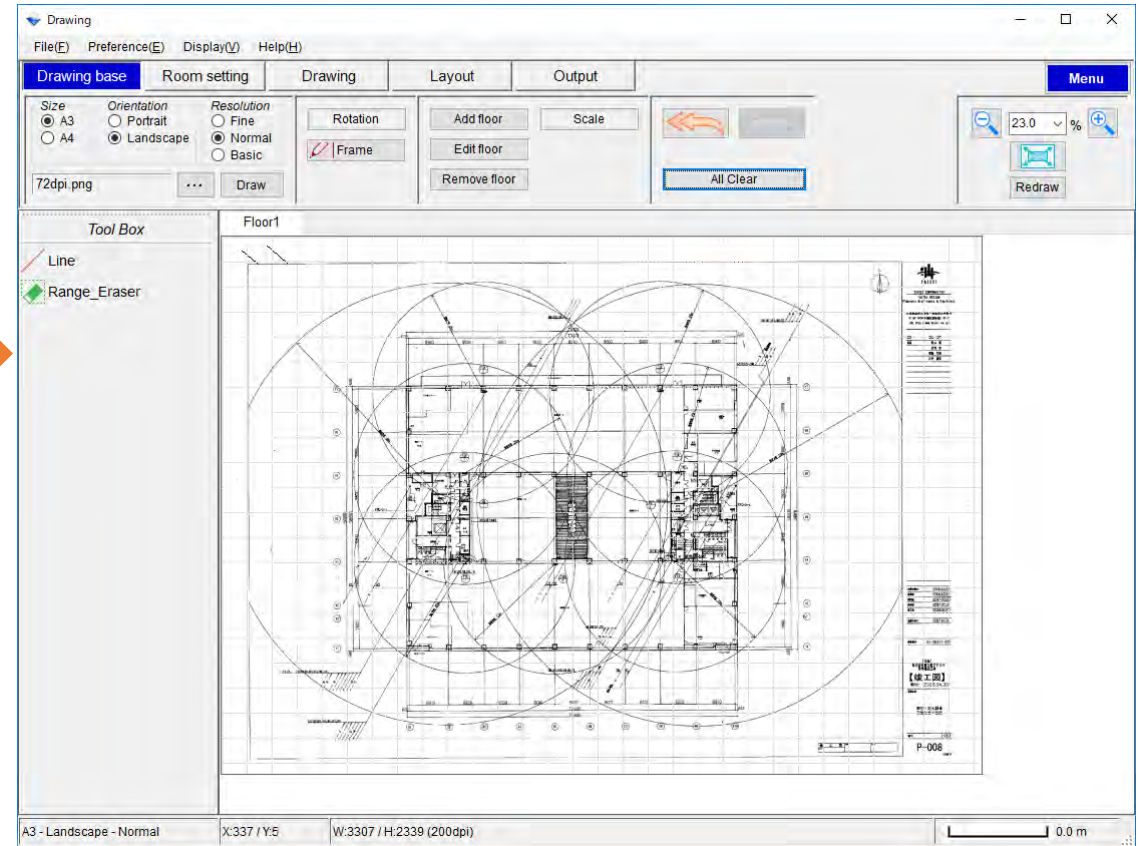
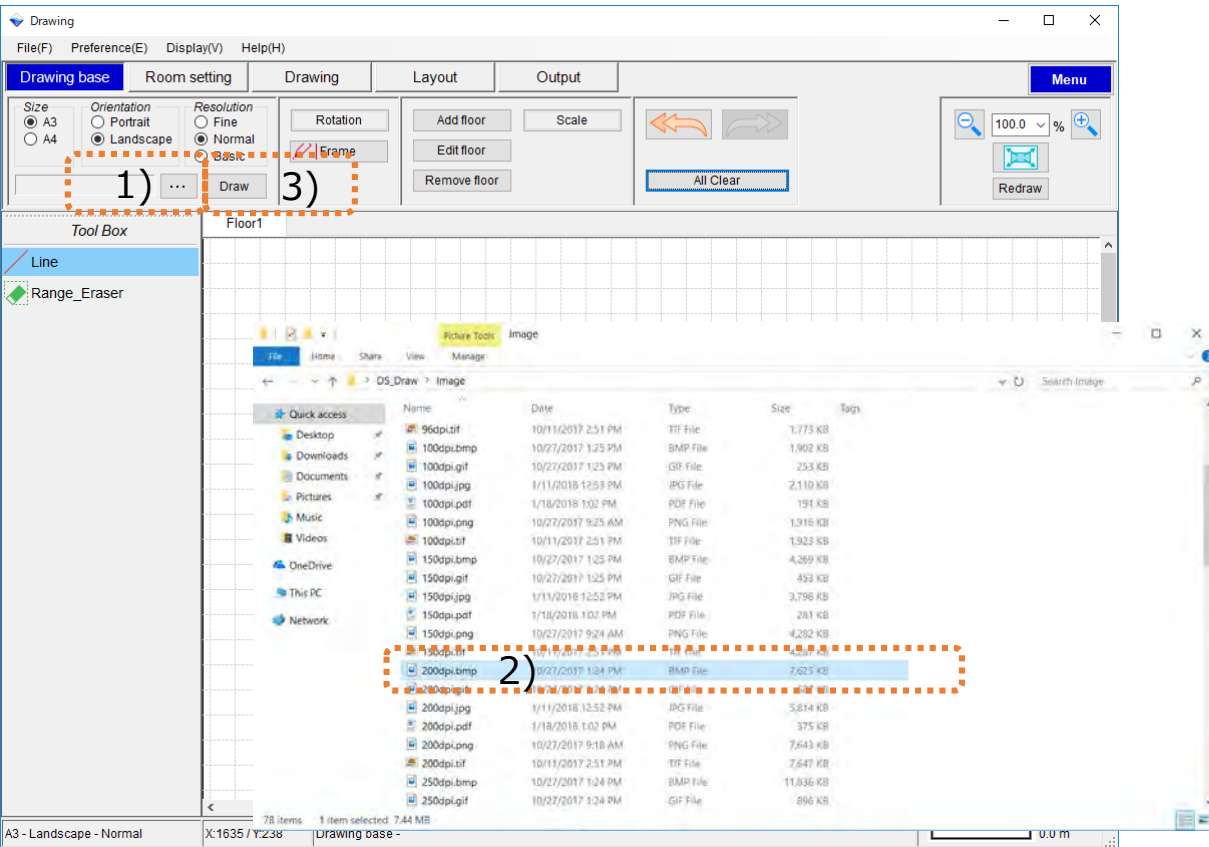
Scale bar

Picture setting
 Size-Orientation-Resolution

Import picture file (1/2)

How to import picture file – File selection

- 1) Press  button
- 2) Select picture
- 3) Press Draw



Import picture file (2/2)

- 1) Select picture file.
- 2) Drag and drop on Grid.

How to import picture file – Drag and Drop

The screenshot illustrates the process of importing a picture file into a drawing application. On the left, a file explorer window shows a list of image files. The file '200dpi.bmp' is selected, and a blue arrow points from it to the drawing application window on the right. The drawing application window has a toolbar with 'Line' and 'Range_Eraser' tools. A red box highlights a grid area in the drawing application, with a text box saying 'Drag and drop picture on the Grid'. The status bar at the bottom shows 'A3 - Landscape - Normal', 'X:1635 / Y:238', and 'Drawing base -'.

How to rotate picture

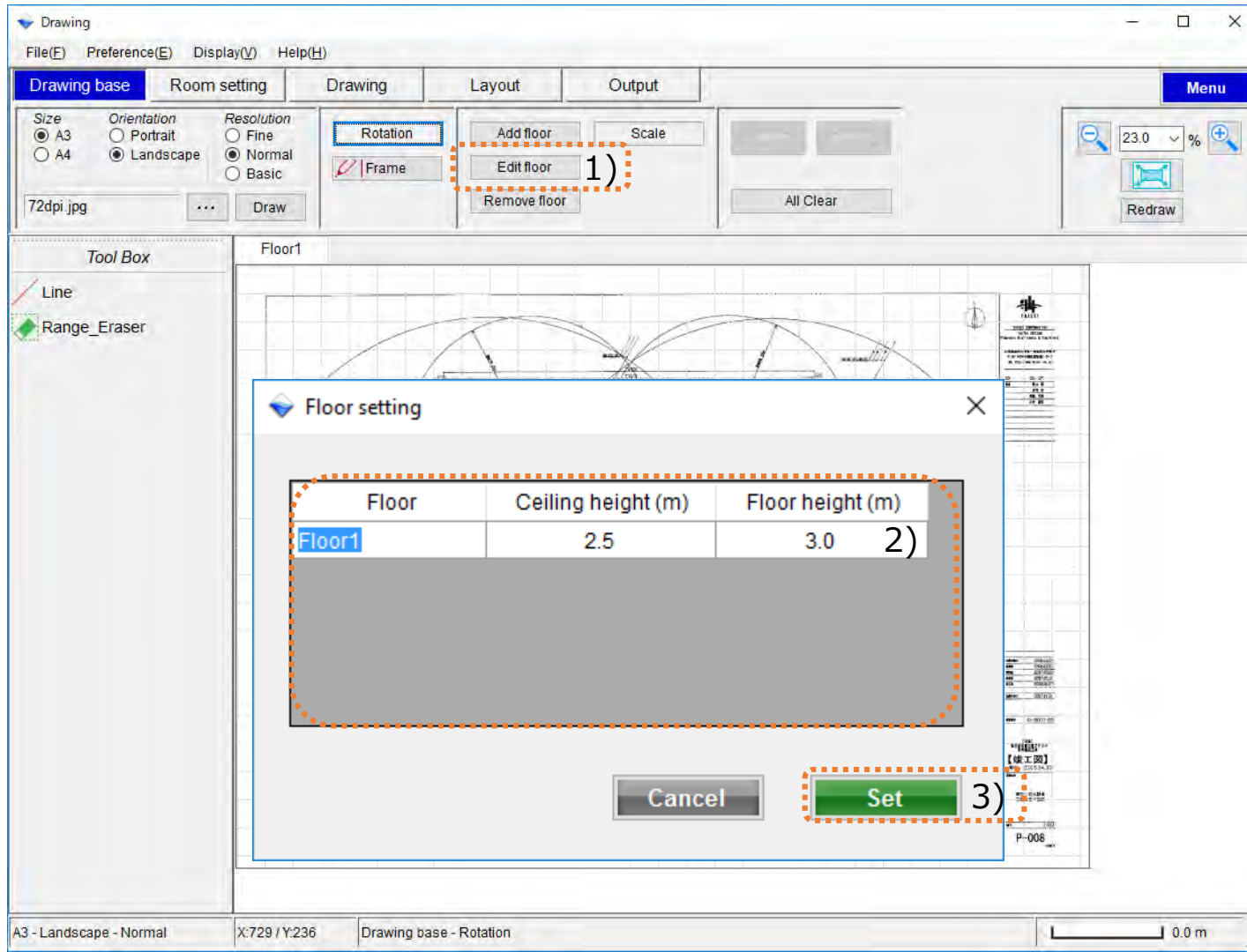
1) Press Rotation button

2) Input the rotation angle (right rotation)

3) Press Draw

4) Press Set

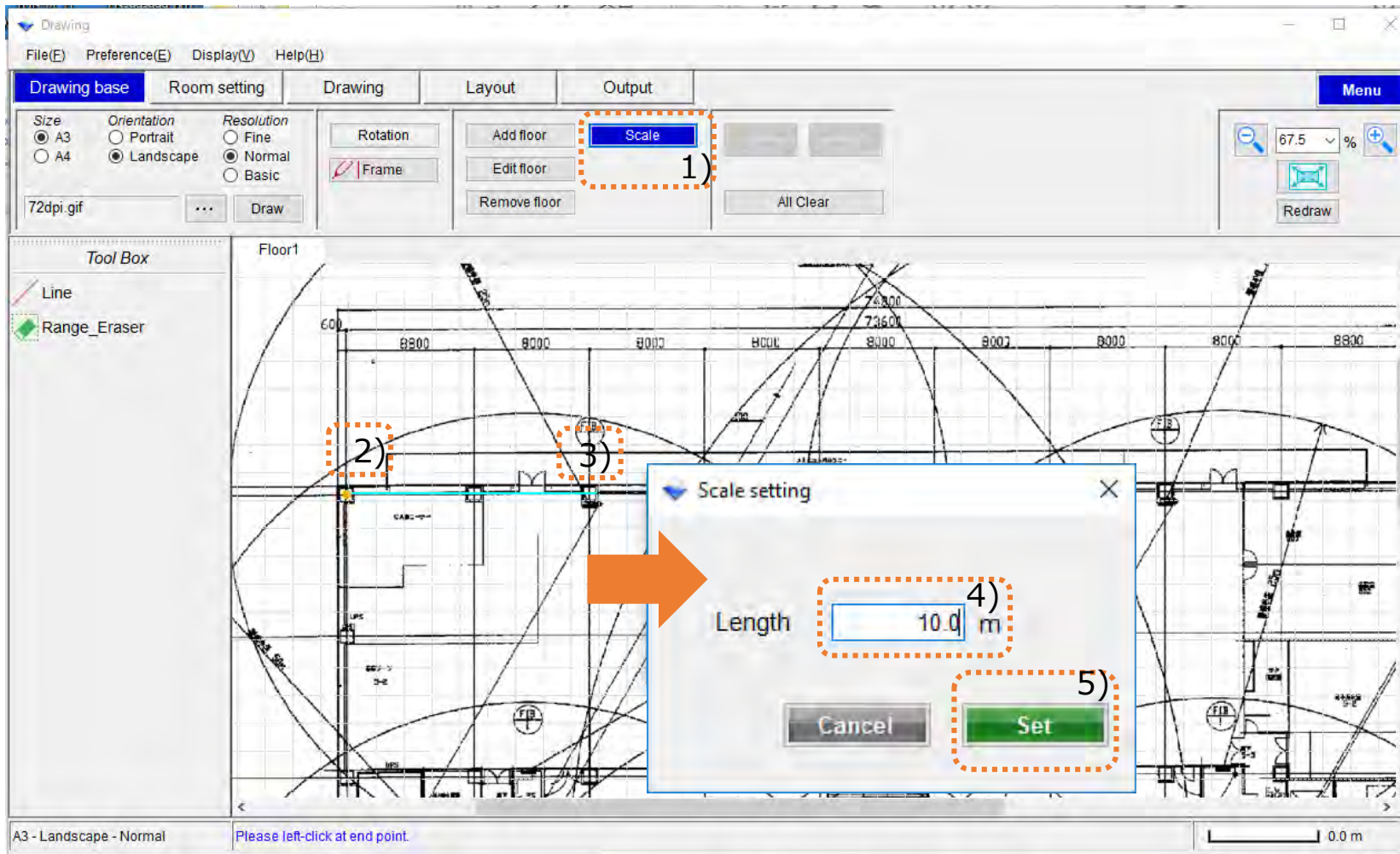
- 1) Press Rotation button
- 2) Input the rotation angle (right rotation)
- 3) Press Draw
- 4) Press Set



- 1) Press Edit floor
- 2) Input floor list
- 3) Press set

Floor list
Floor name : Input the floor name
Ceiling height : Input the ceiling height
Floor height : Input the floor height

How to scale setting



1) Select Scale

Not selected scale

Scale

Selected scale

Scale

2) Left-click at starting point

3) Left-click at end point

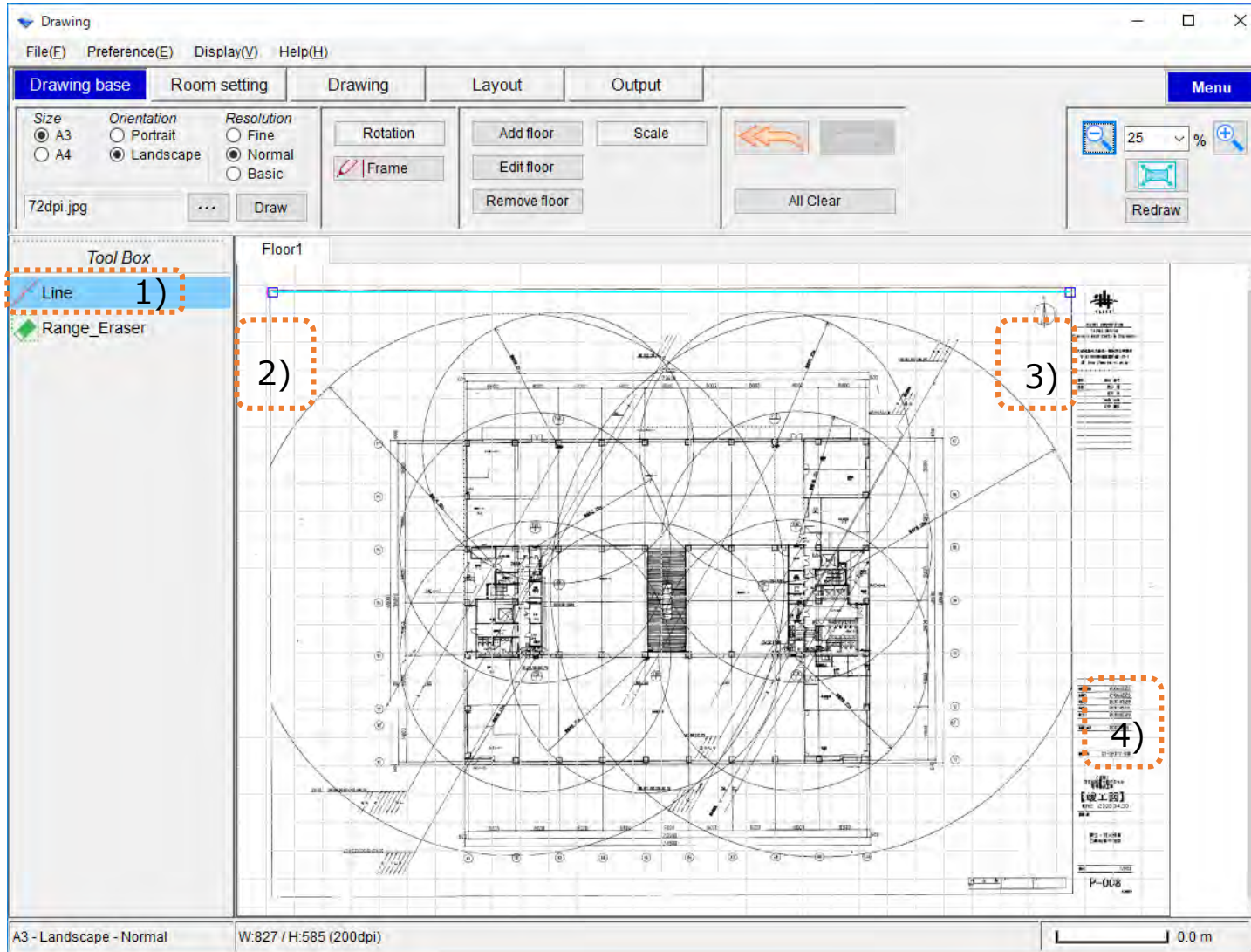
4) Input the scale

5) Press Tab key

6) Press Set

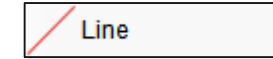
*If stop drawing, Press the Esc button

How to draw line

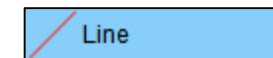


1) Select Line

Not selected Line



Selected Line



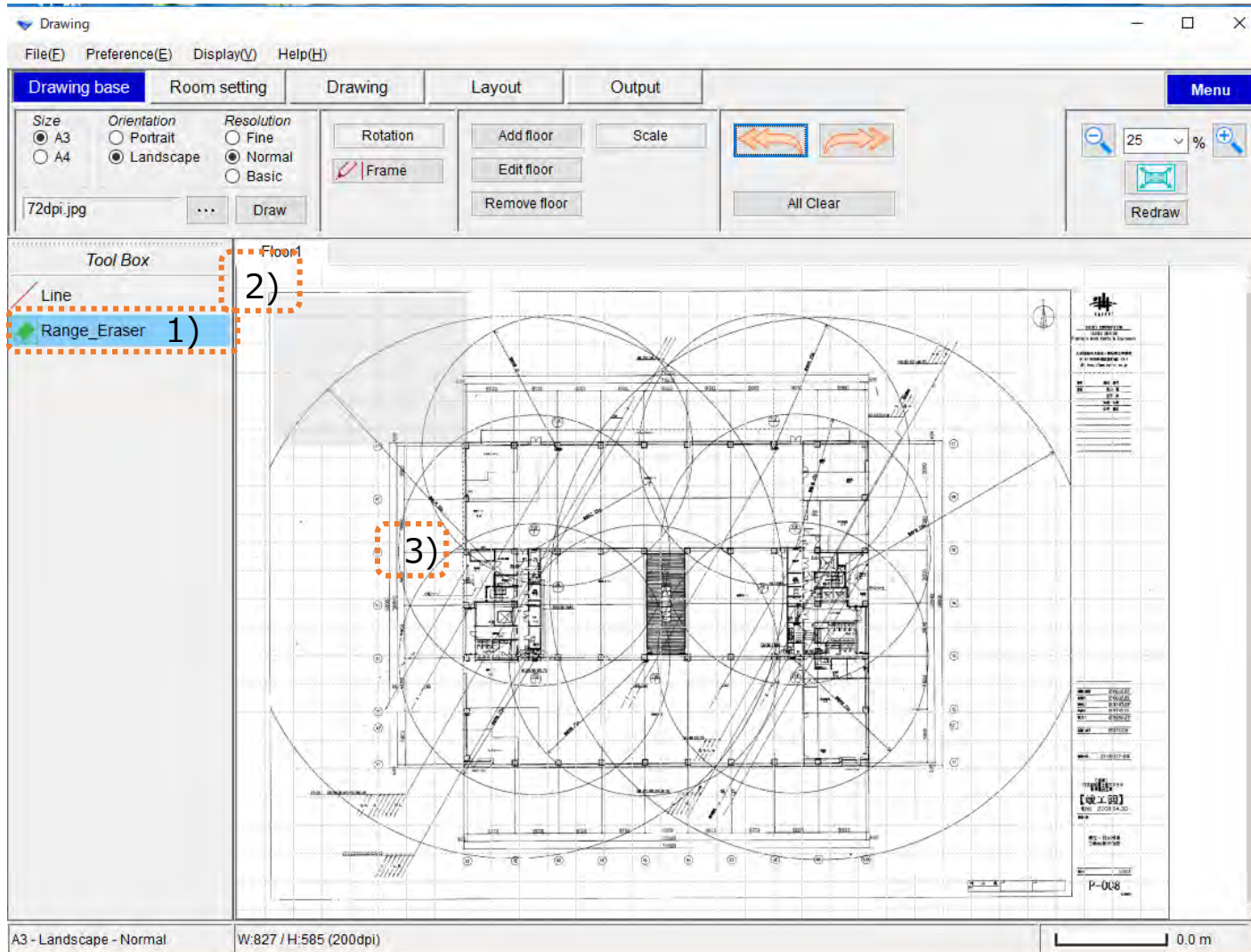
2) Left-click at starting point

3) Left-click at end point

4) Draw with left-click on the picture

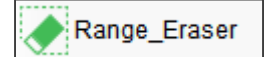
*If stop drawing ,Press the Esc button

How to Remove part of picture

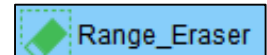


1) Select Range Eraser

Not selected Range eraser



Selected Range Eraser



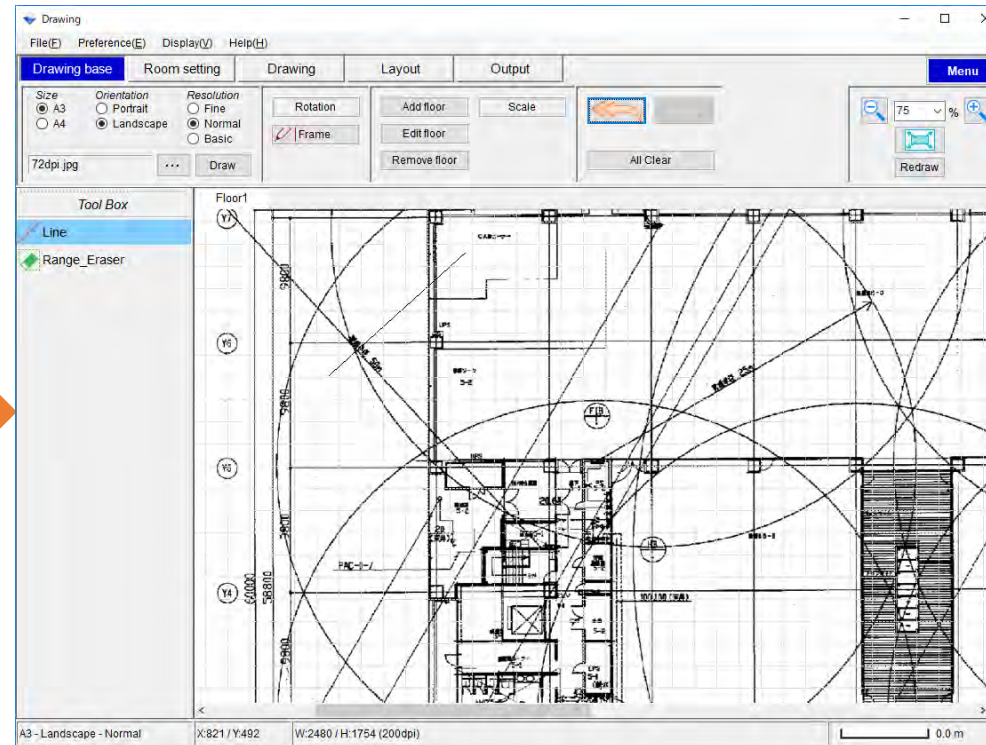
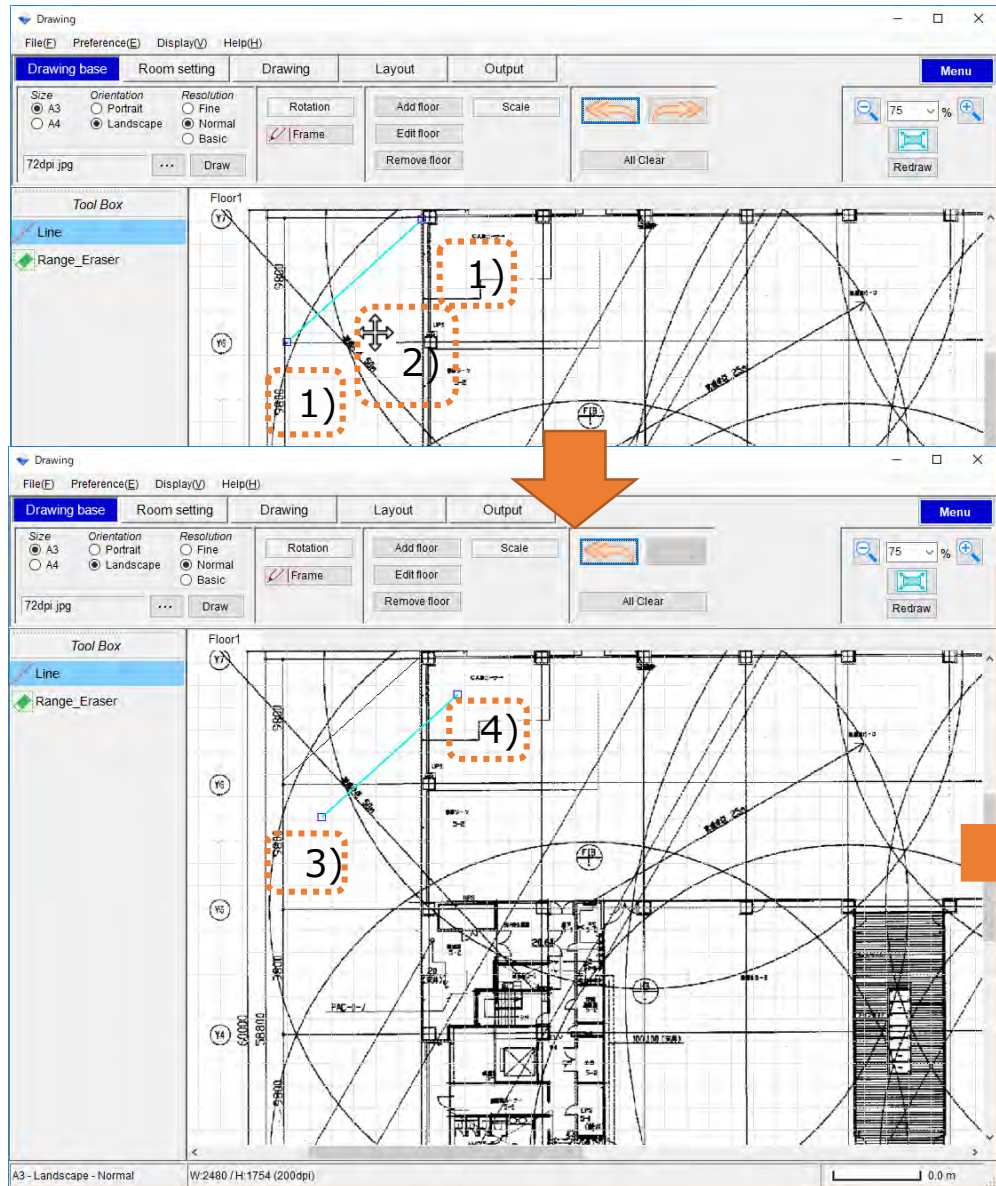
2) Left-click at starting point

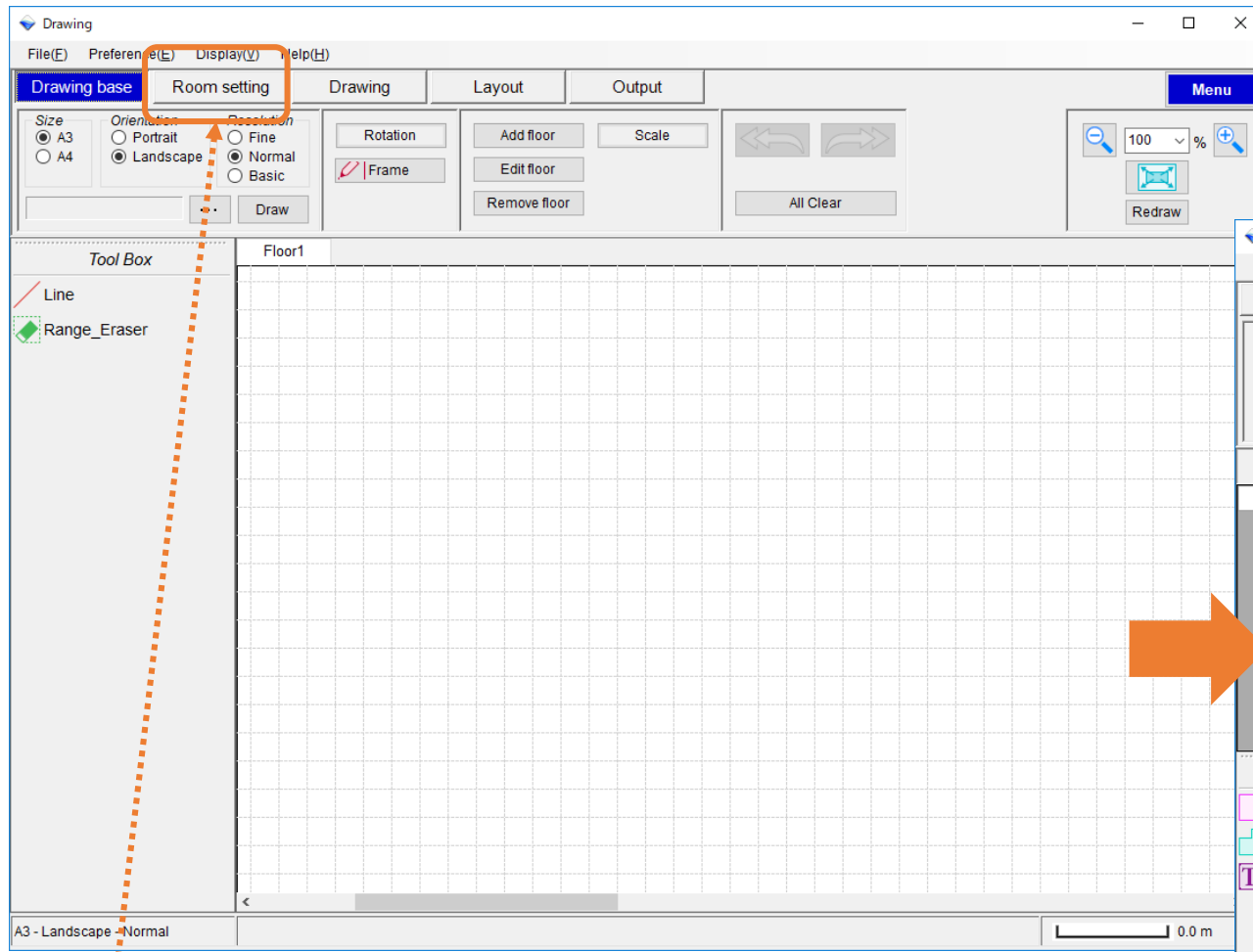
3) Drag to end point

*If stop drawing ,Press the Esc button

How to move of Line

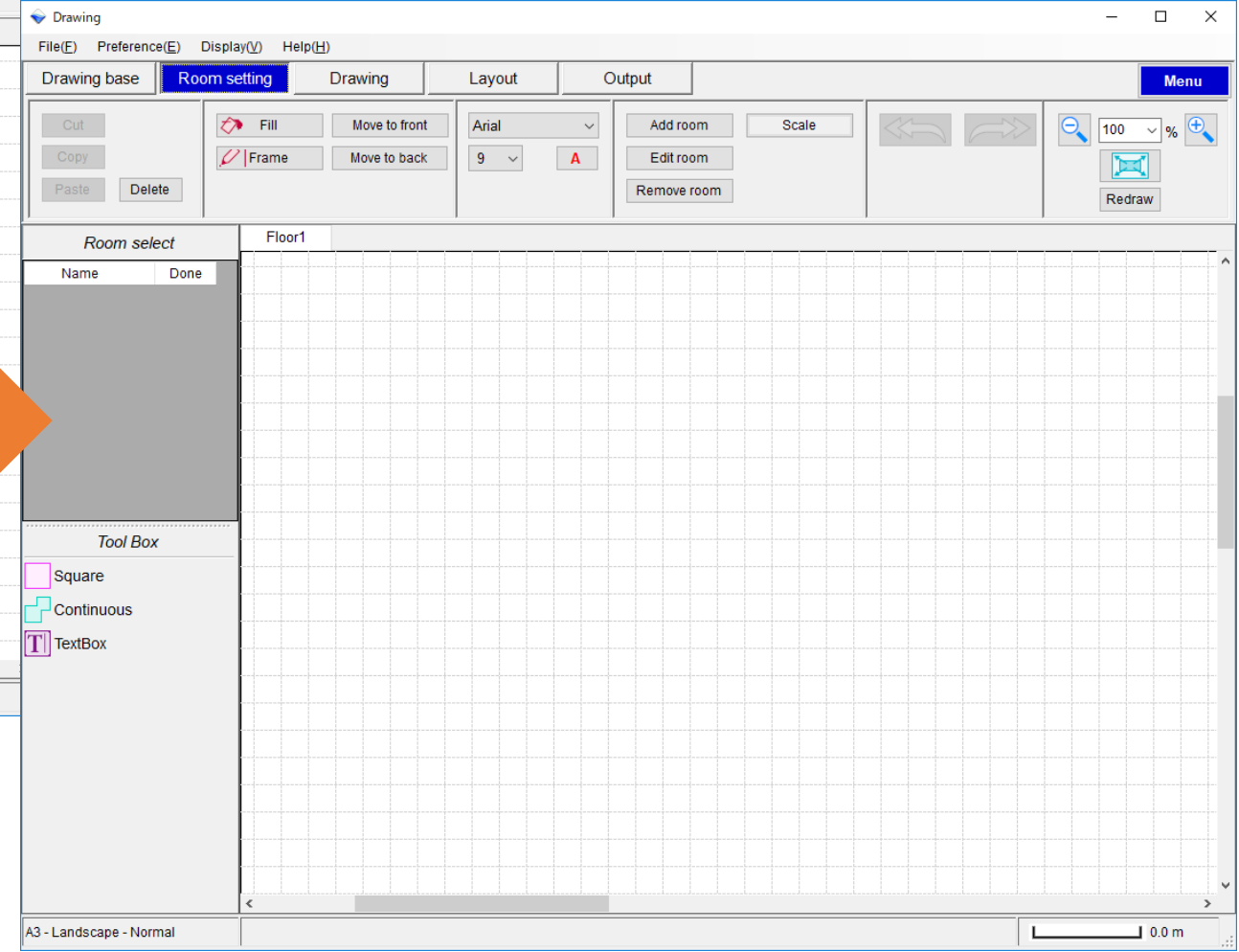
- 1) Left-Click the start or end point of the Line
- 2) Left-click at Line of center
- 3) Drag to move
- 4) Draw with left-click on the picture

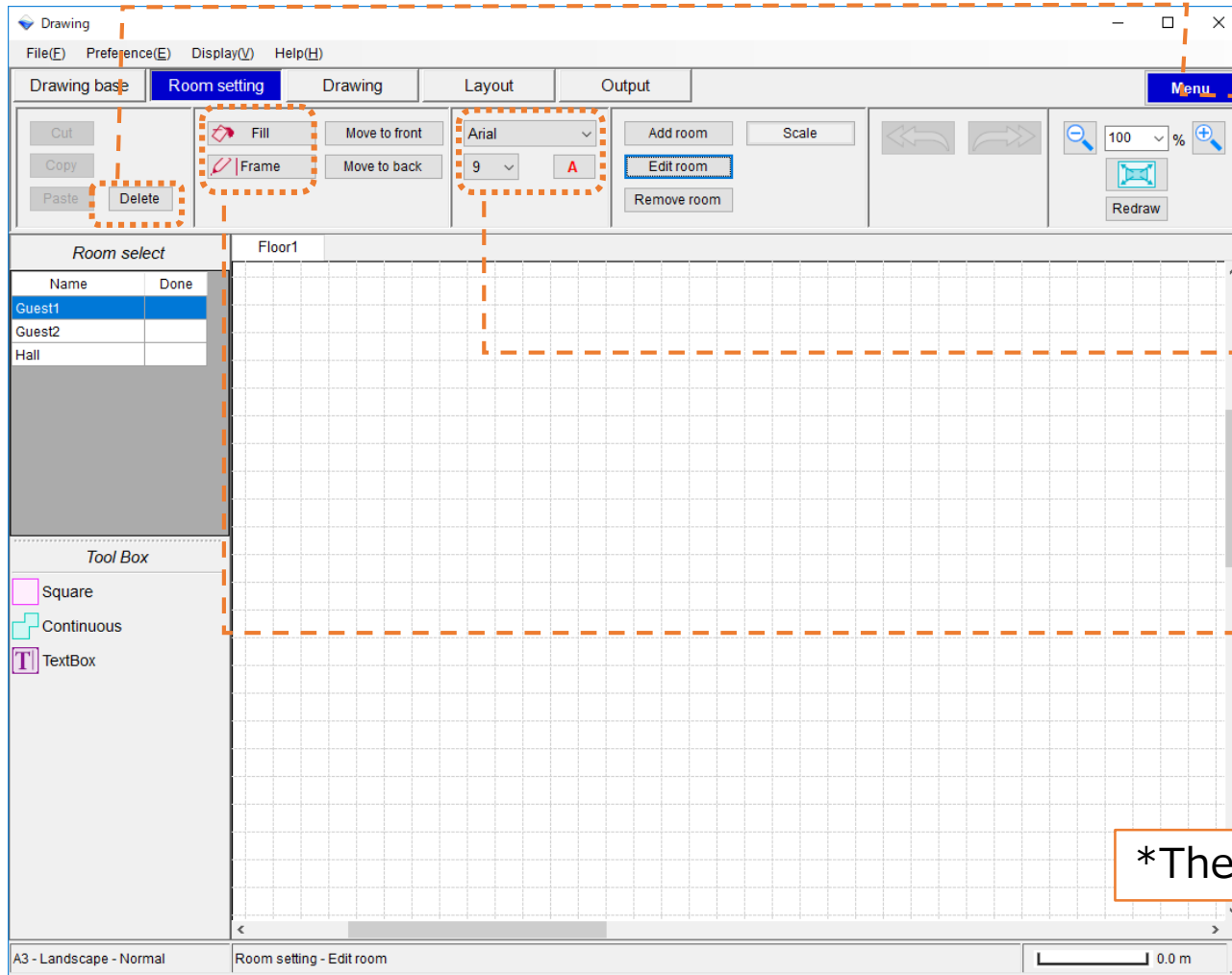




Select "Room setting"

Room setting screen (Drawing)



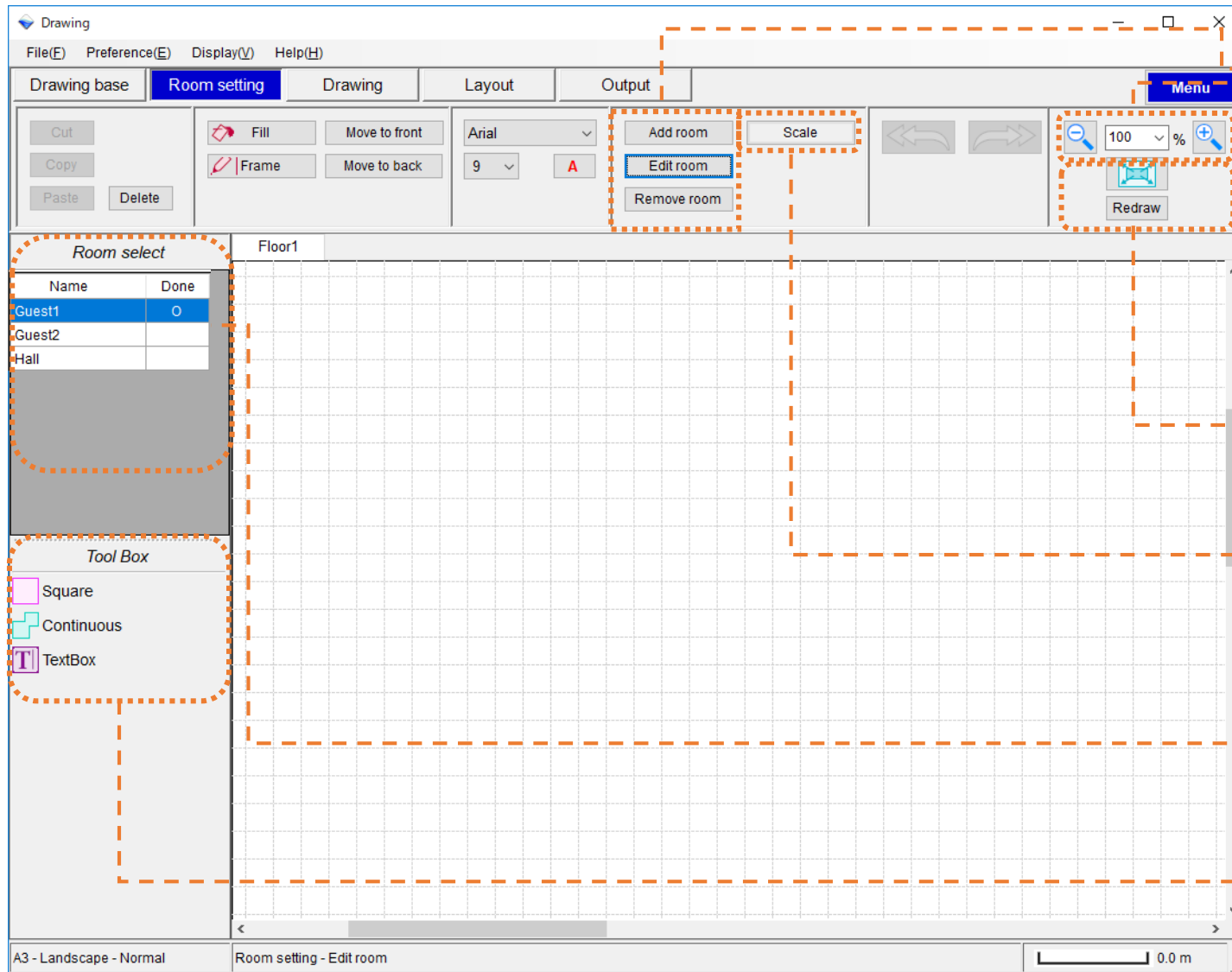


Delete object
Delete : Delete object

Font setting
Font type : Select font in textbox
Font size : Select font size in textbox
Font color : Select font color in textbox

Control object colors
Fill : Select object fill color
Frame : Select object frame color

*The contents setting on the panel are adapted in all drawing



Room setting

Add room, Remove room
Edit room : Refer to "Edit room"

Zoom to

- : Zoom up
- : Zoom down
- : Select zoom
- : Full picture display

Redraw

Redraw: Draw the displayed picture again

Scale

Refer to "Scale setting"

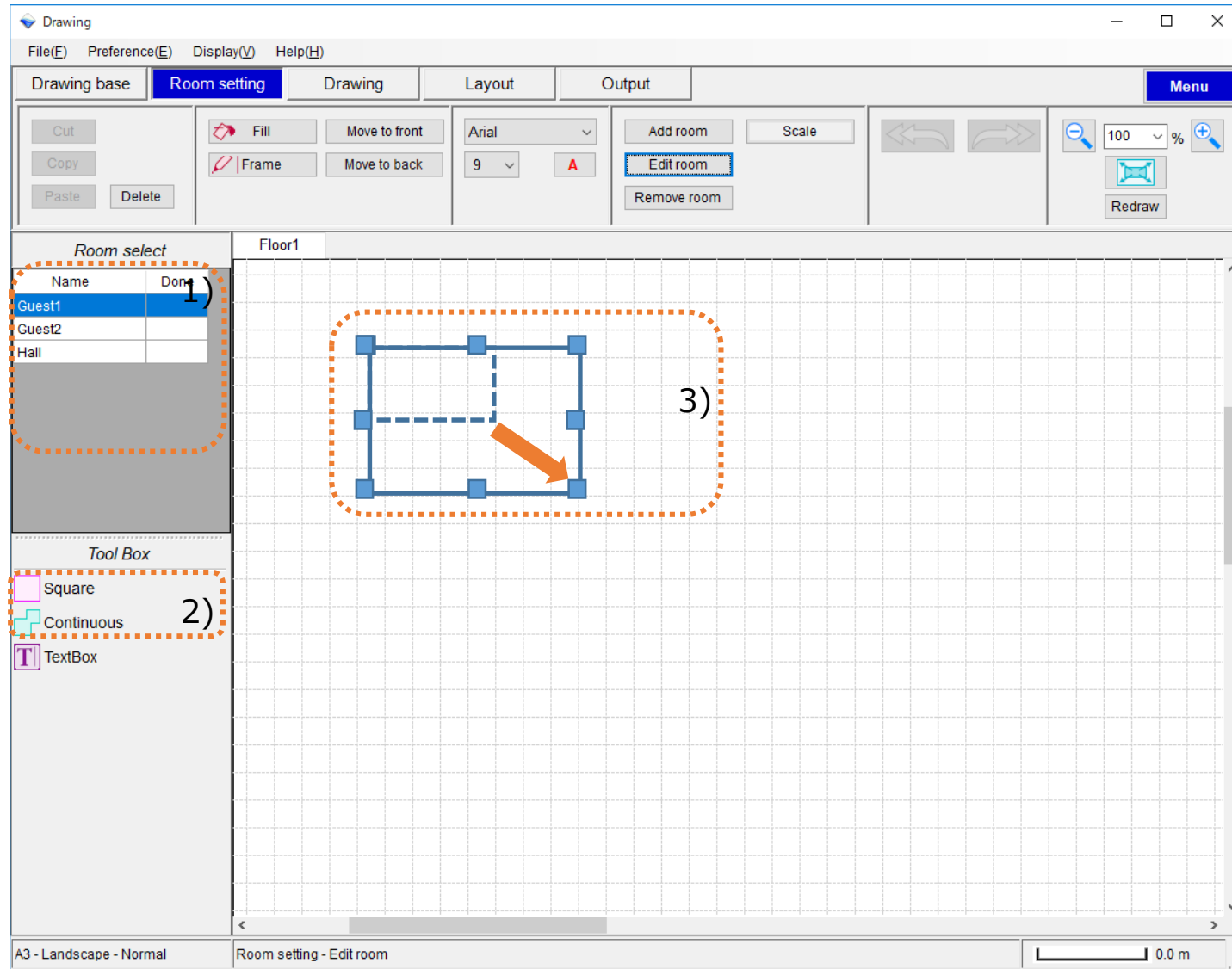
Room list

Room name
Done : "○" Made the room
" " Not made the room

Tool Box

Square, Polygon, Textbox : Refer to "Making room"

How to make a room



1) Select room

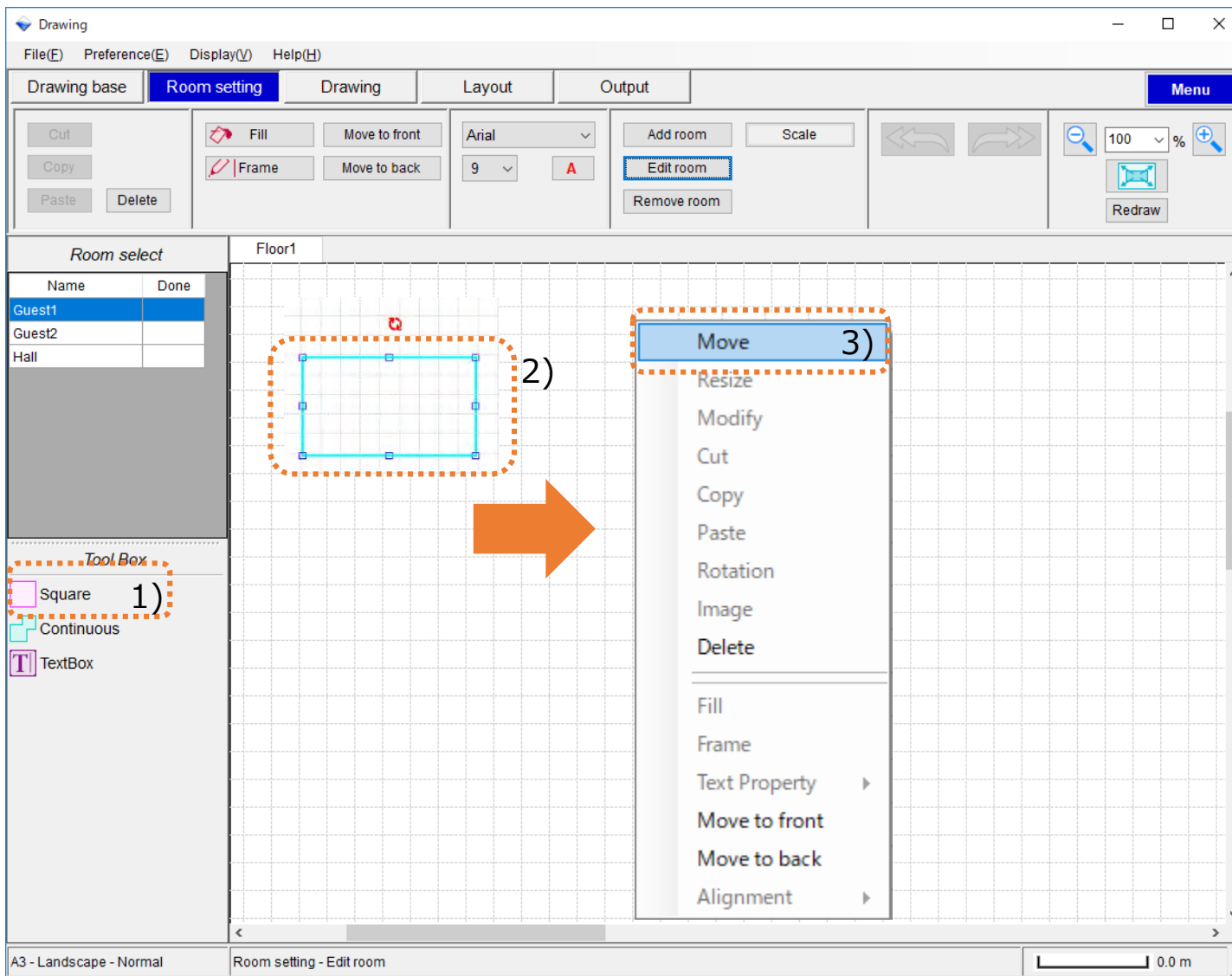
2) Select object

3) Draw object

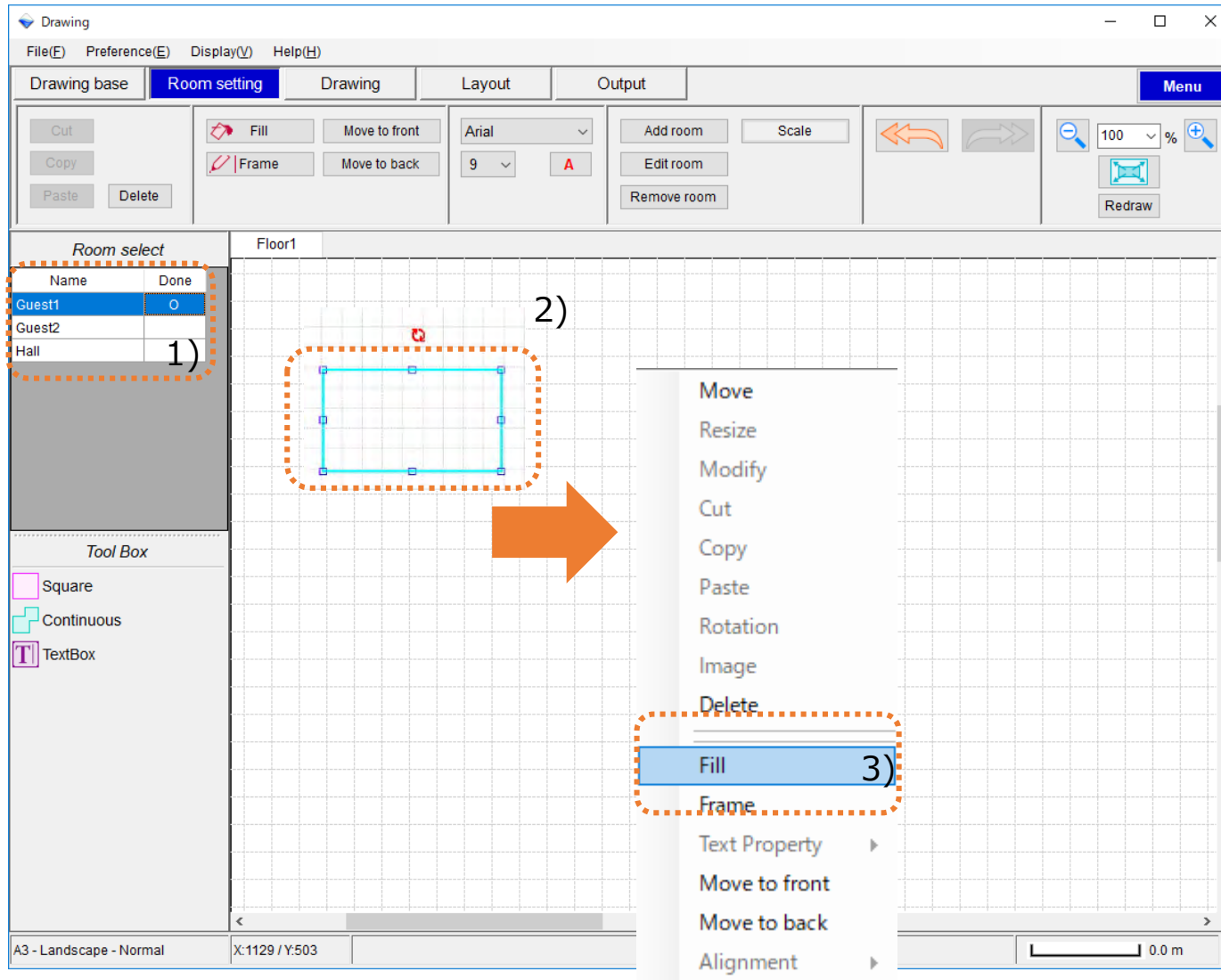
Square, Polygon : Refer to "Drawing"

How to move room

- 1) Select object
Select the room in Room list
- 2) Right-click
- 3) Select Move



How to change room color



1) Select object

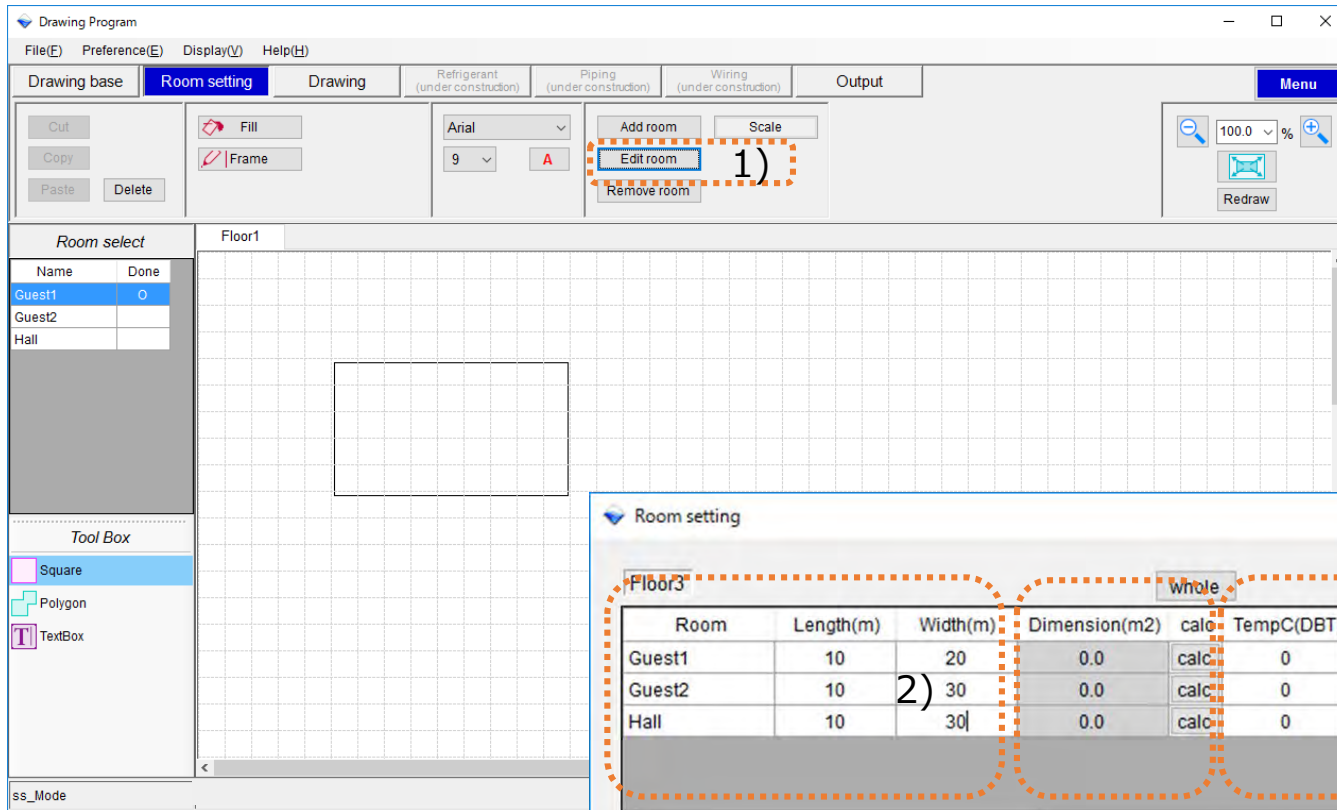
Select the room in Room list

2) Right-click

3) Select Fill or Frame

Refer to "Drawing"

How to edit the room



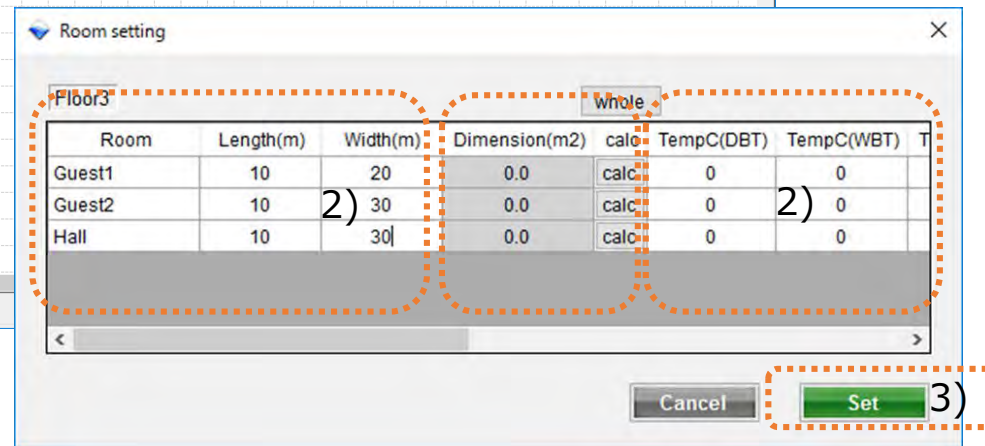
1) Press Edit room

2) Input room information

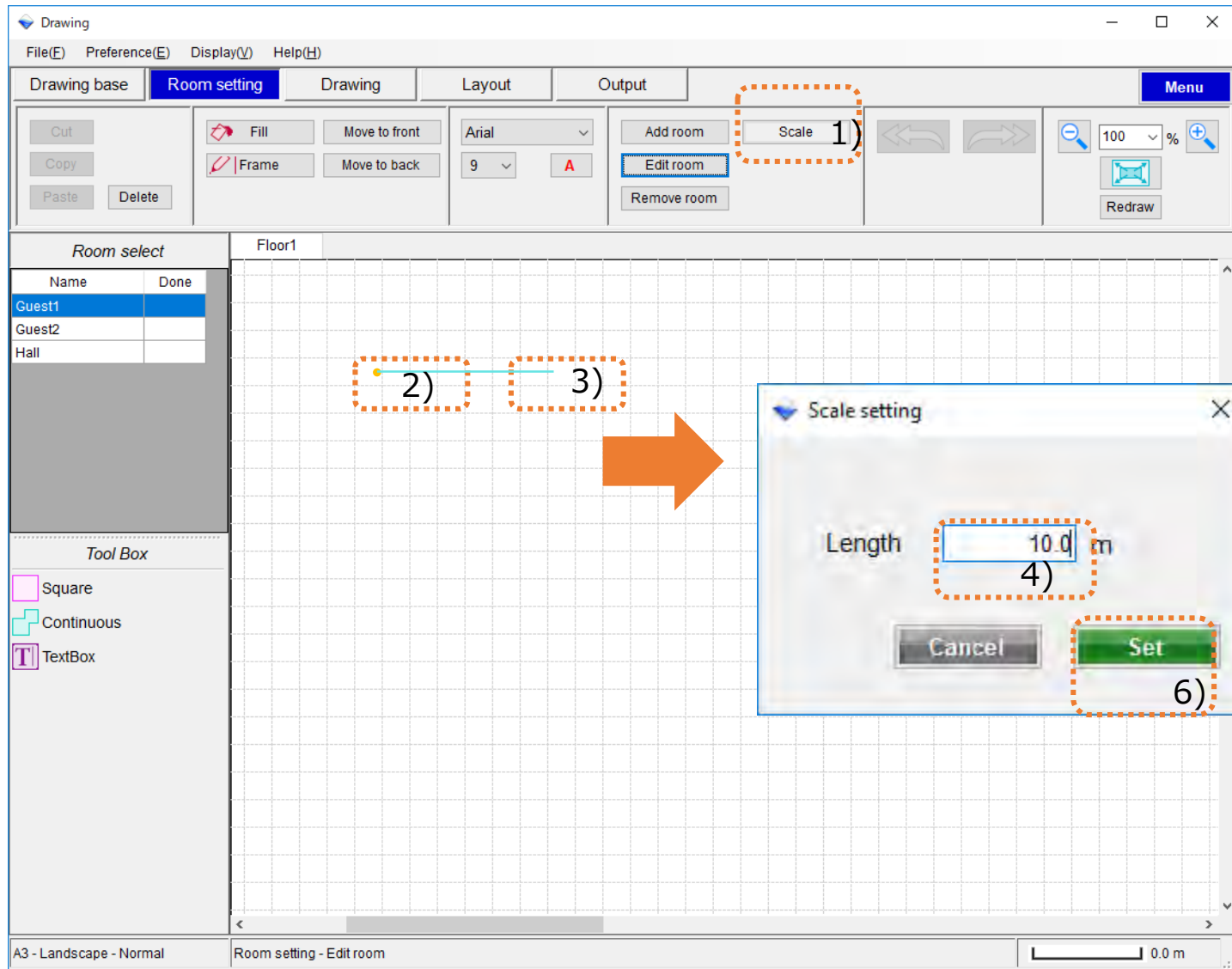
Dimension is not entered. Press calc, so display the dimension automatically

Displayed item kind is set in Design Simulator

3) Press set

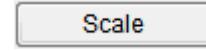


How to scale setting

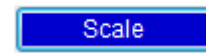


1) Select Scale

Not selected scale



Selected scale



2) Left-click at starting point

3) Left-click at end point

4) Input the scale

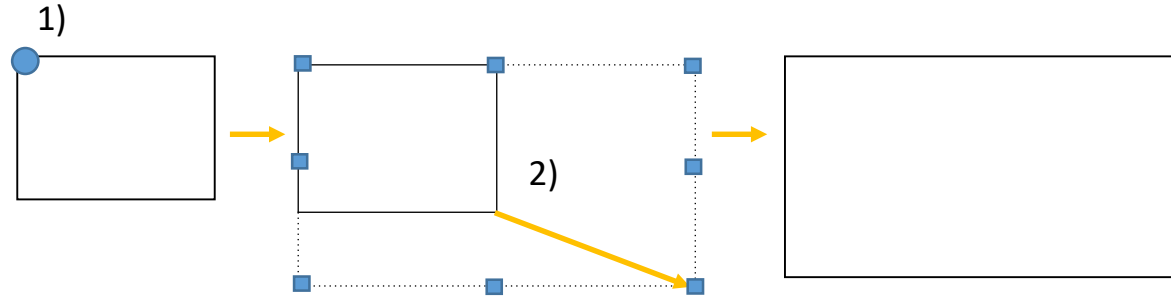
5) Press Tab key

6) Press Set

*If stop scale setting, press the Esc button

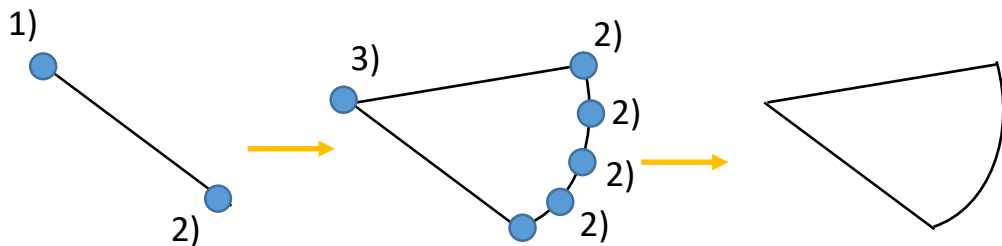
Square, Circle, Triangle

- 1) Left-click at starting point
- 2) Drag to end point



Polygon

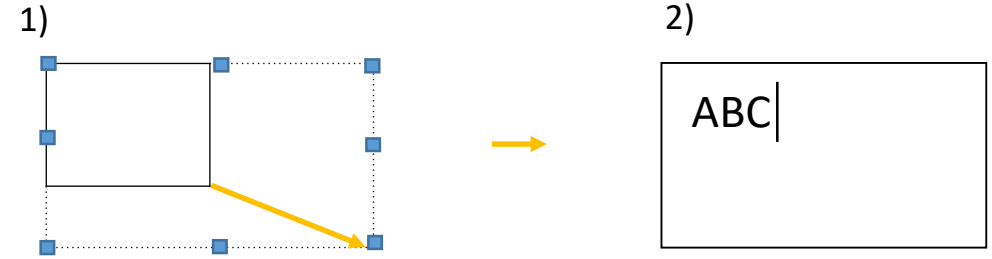
- 1) Left-click at starting point
 - 2) Left-click at second point
 - Repeat
 - 3) Double-click at end point
- End point must be near the starting point
*The max number of points is 20



*If stop drawing ,Press the Esc button

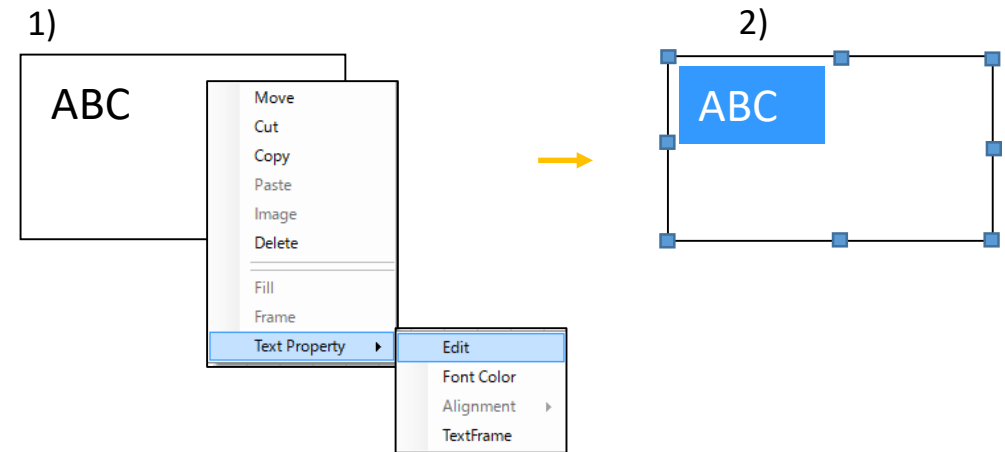
Text Box

- 1) Left-click at starting point & Drag to end point
- 2) Input text



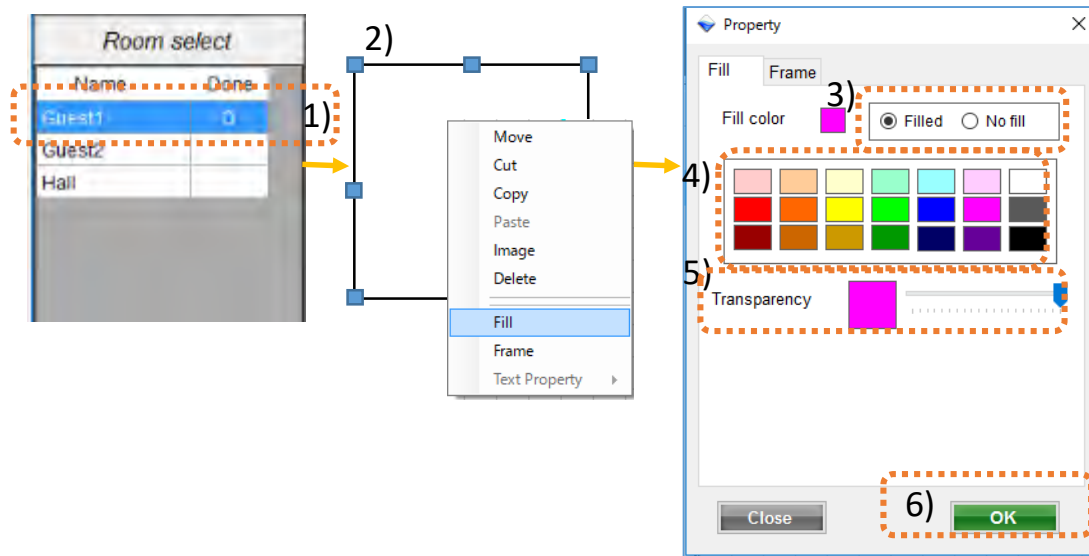
Edit Text

- 1) Right-click on text box's center point
- 2) Select Text Property, and Edit



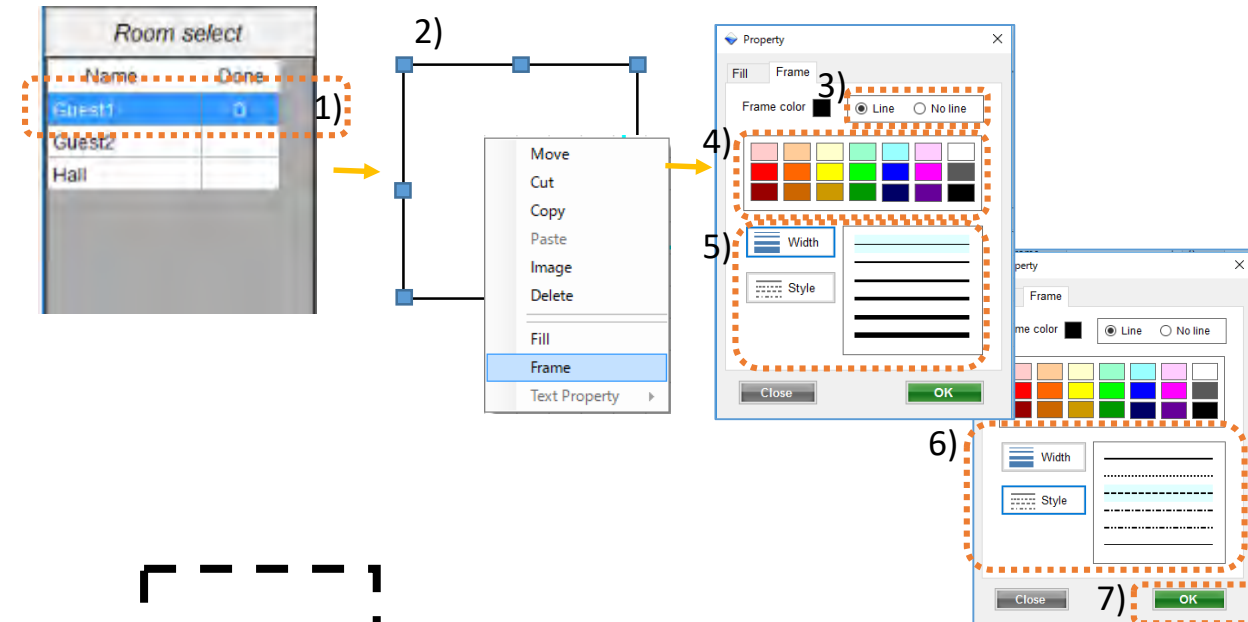
How to Fill a object (Square)

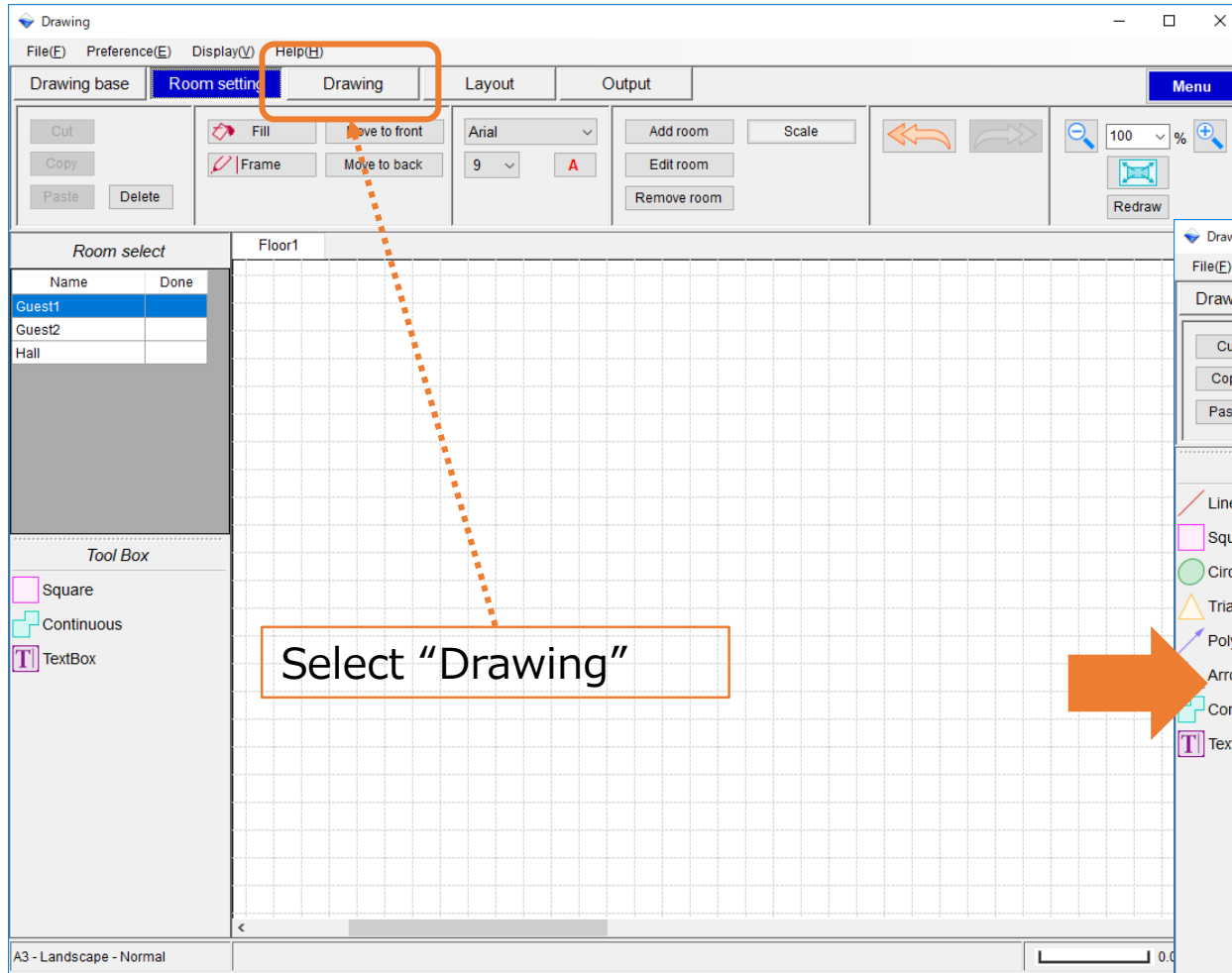
- 1) Select object
Select the room in Room list
- 2) Right-click, and Select Fill
- 3) Select Filled
- 4) Select Color
- 5) Select Transparency
- 6) Select OK



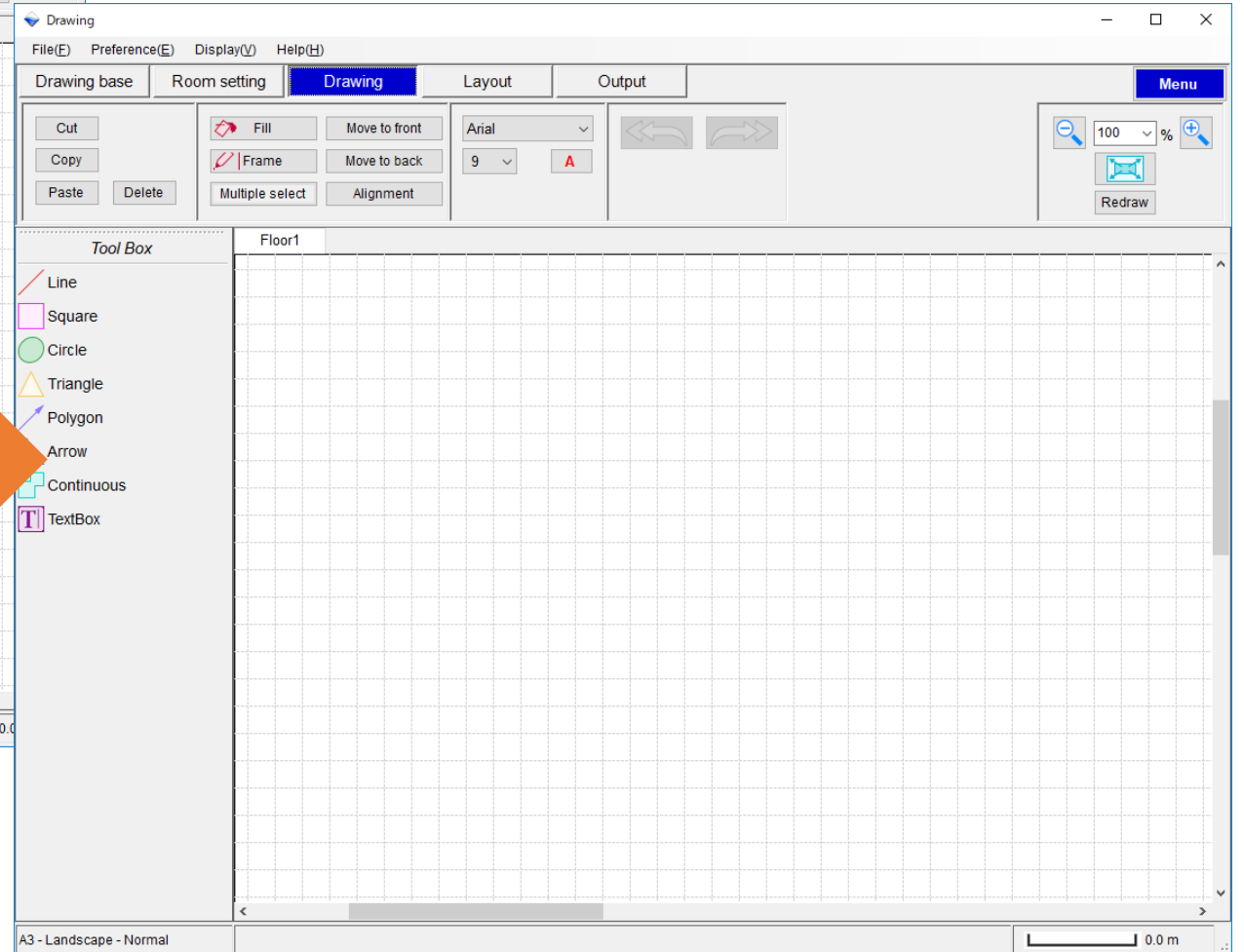
How to Frame a object

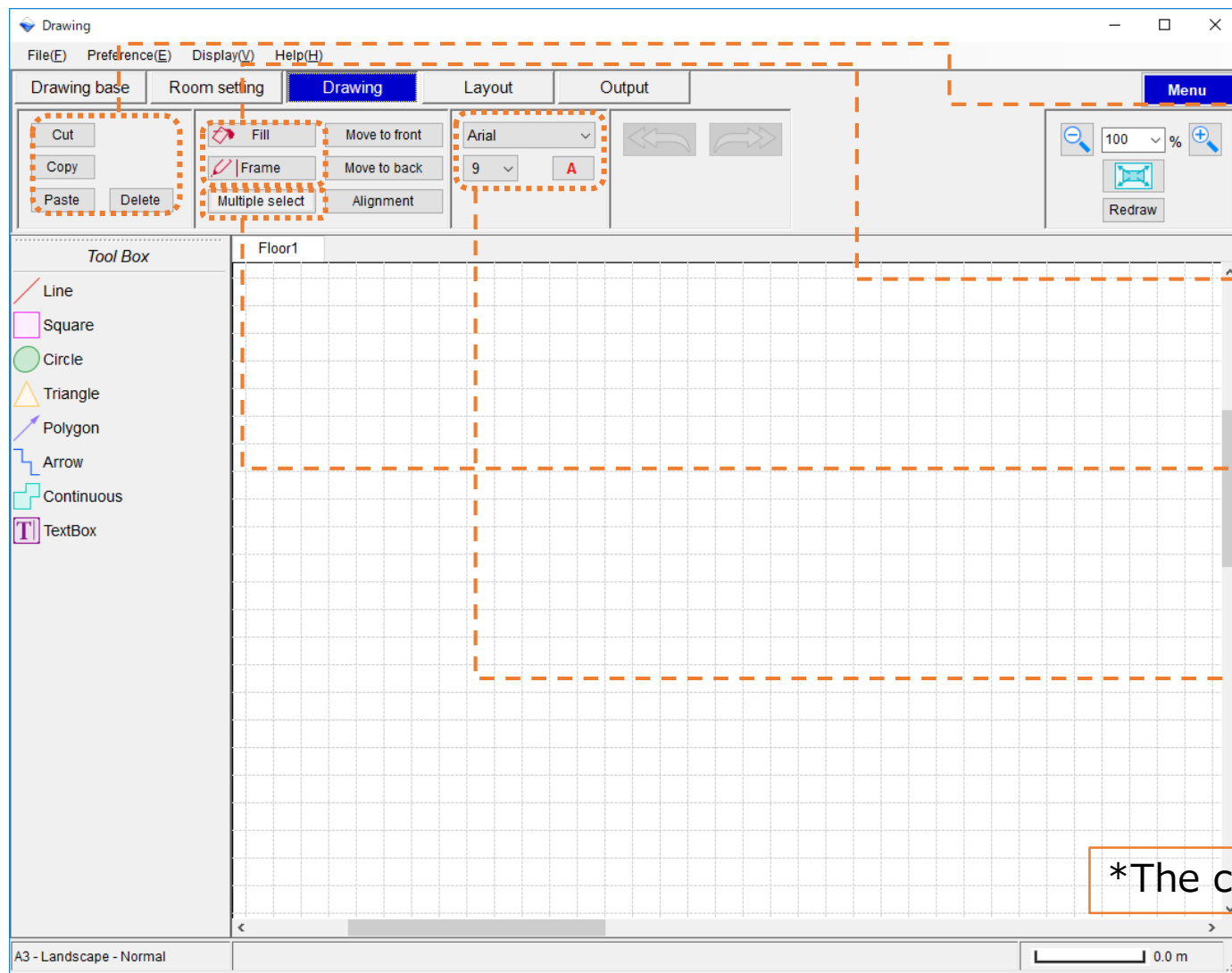
- 1) Select object
Select the room in Room list
- 2) Right-click, and Select Frame
- 3) Select Line
- 4) Select Color
- 5) Select Width
- 6) Select Style
- 7) Select OK





Drawing Design screen (Drawing)





Control objects

Cut, Copy, Paste, Delete : Control objects

Control object colors

Fill : Select object fill color

Frame : Select object frame color

Multiple select

Multiple select : Select some objects

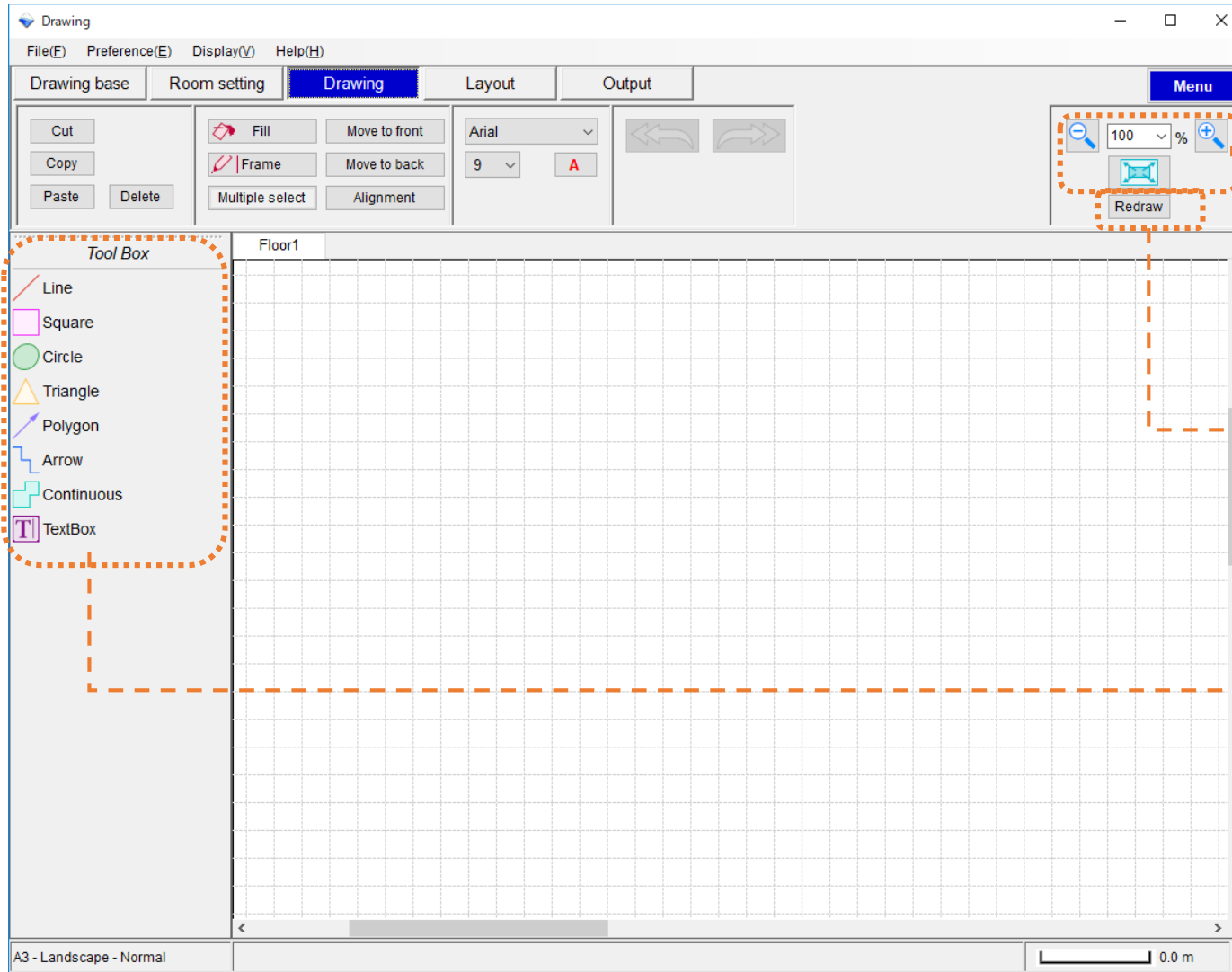
Font setting

Font type : Select font in textbox

Font size : Select font size in textbox

Font color : Select font color in textbox

*The contents set on the panel are adapted in all drawing



Zoom to

- : Zoom up
- : Zoom down
- : Select zoom
- : Full picture display

Redraw

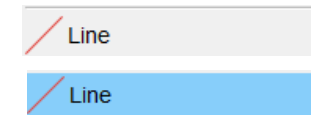
Redraw: Draw the displayed picture again

Tool Box

Line, Square, Circle, Triangle, Arrow, Continuous, Polygon, Text Box :refer to "Tool Box"

Press button

Not selected Line
Selected Line



*If stop drawing ,Press the Esc button

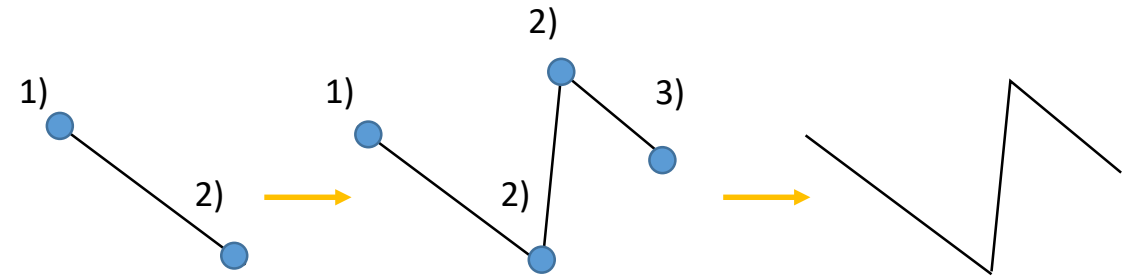
Line

- 1) Left-click at starting point
- 2) Left-click at end point
- 3) Draw with left-click on the picture



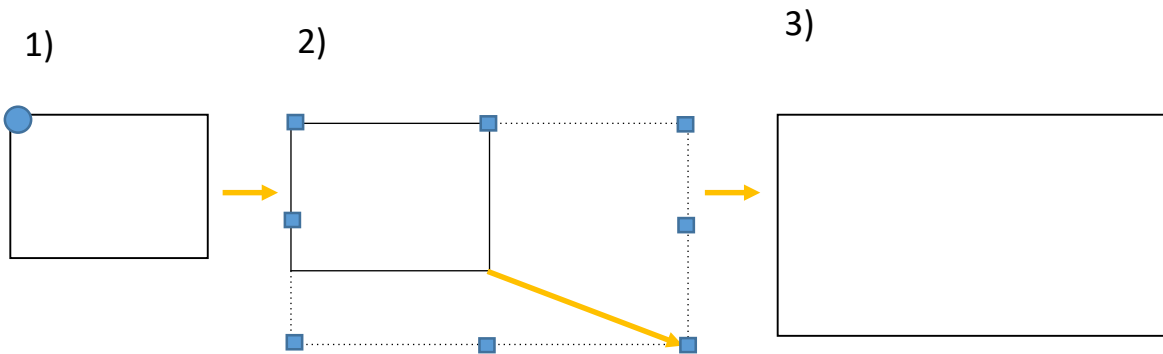
Continuous

- 1) Left-click at starting point
 - 2) Left-click at second point
- Repeat
- 3) Double-click at end point
- *The max number of points is 20



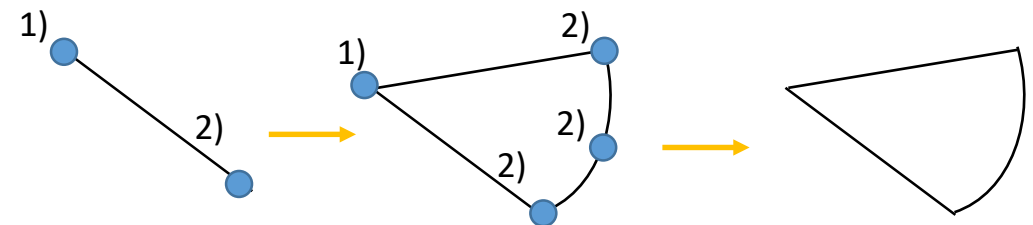
Square, Circle, Triangle

- 1) Left-click at starting point
- 2) Drag to end point



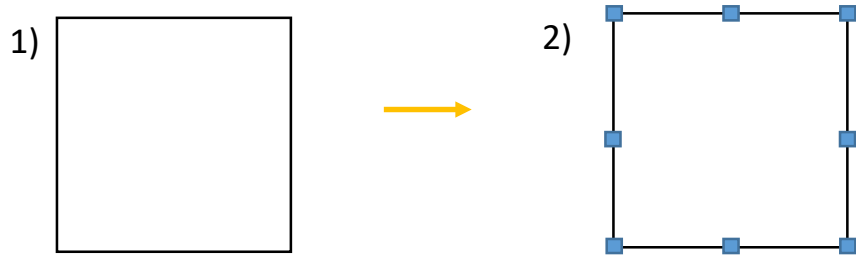
Polygon

- 1) Left-click at starting point
 - 2) Left-click at second point
- Repeat
- 3) Double-click at end point
- End point must be near the starting point
- *The max number of points is 20



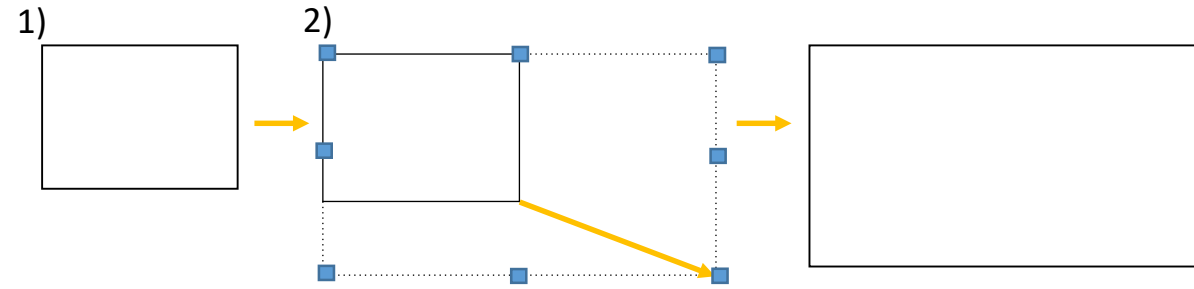
Select a object (Square,Circle,Triangle)

- 1)Left-click on drawing object's center point
- 2)The object is selected



Resize (Square,Circle,Triangle)

- 1)Left-click at Drawing Symbol
- 2)Drag blue frame



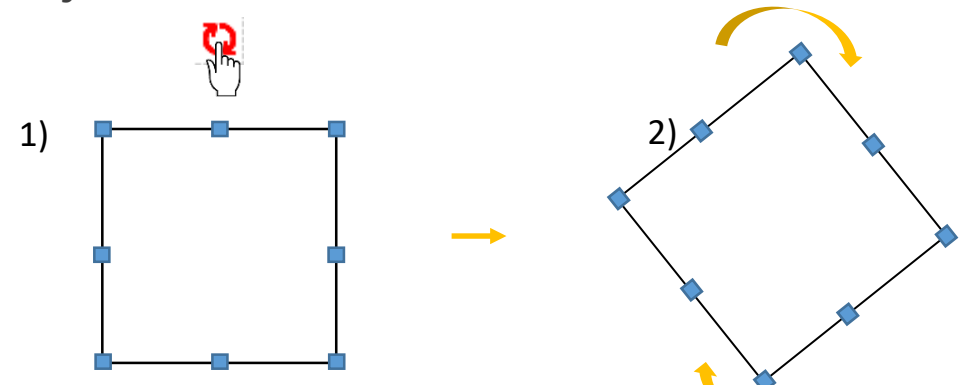
Select a line

- 1)Left-Click the start or end point of the Line
- 2)The line is selected



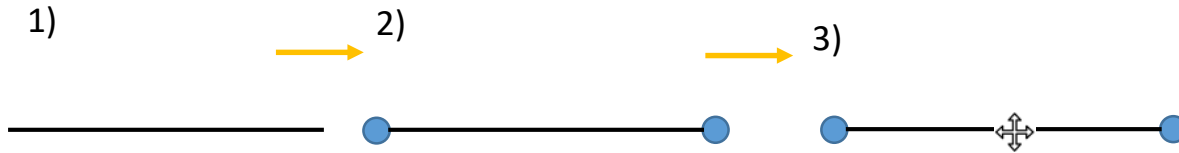
Rotation (Square, Triangle)

- 1)Left-click at a object
- 2)Left-click at Rotation mark of center
- 3)Turn a object



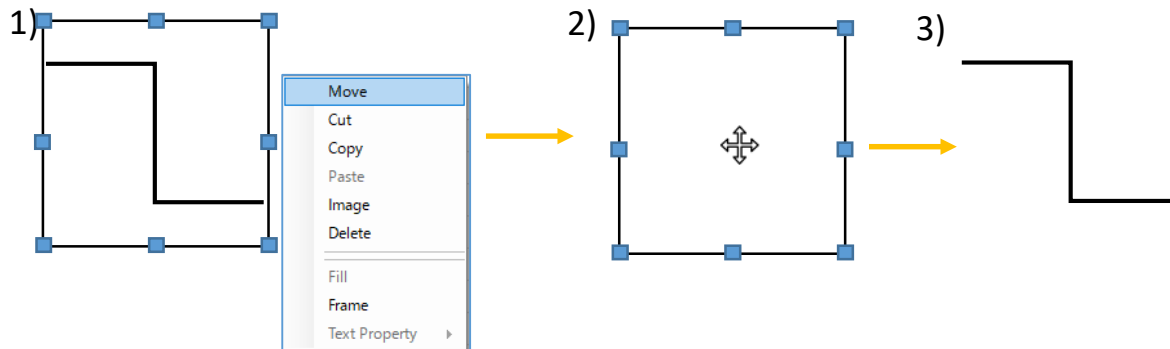
Move a line

- 1) Left-Click the start or end point of the Line
- 2) Left-click at Line of center
- 3) Drag to move
- 4) Draw with left-click on the picture



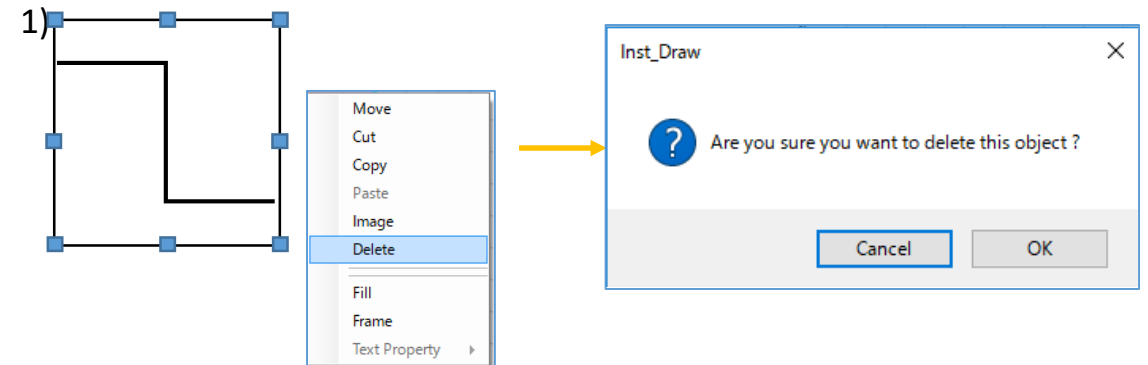
Move a Continuous, Polygon

- 1) Right-Click on drawing object's center point
Select Move
- 2) Drag to move
- 3) Draw with left-click on the picture



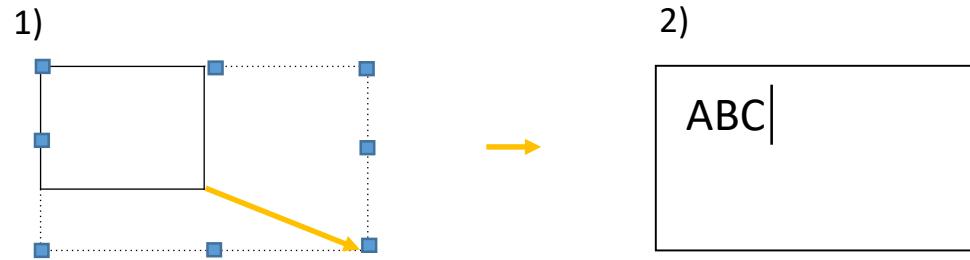
Delete a Continuous, Polygon

- 1) Right-Click on drawing object's center point
Select Delete
- 2) Select OK



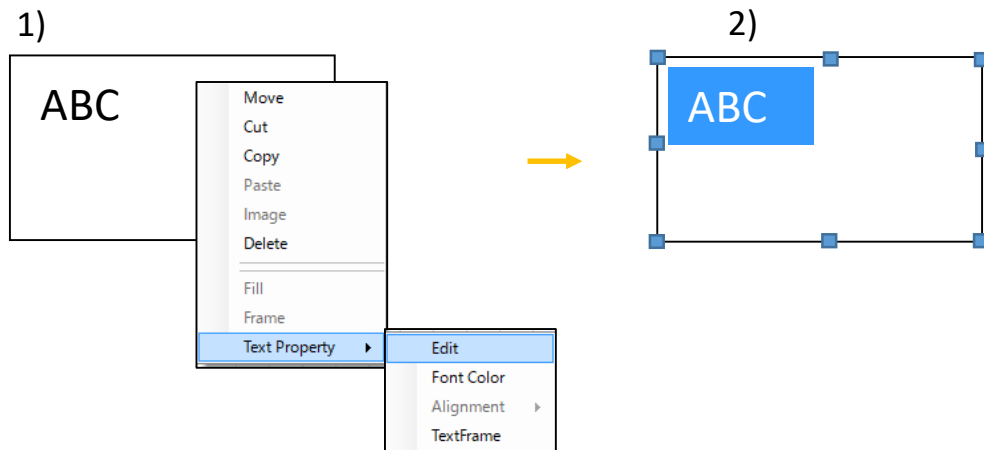
Text Box

- 1) Left-click at starting point & Drag to end point
- 2) Input text



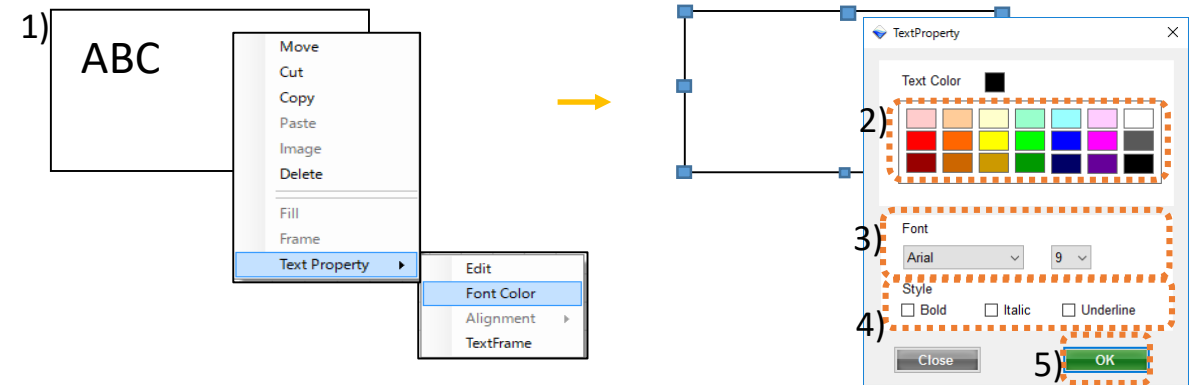
Edit Text

- 1) Right-click on drawing object's center point
- 2) Select Text Property, and Edit



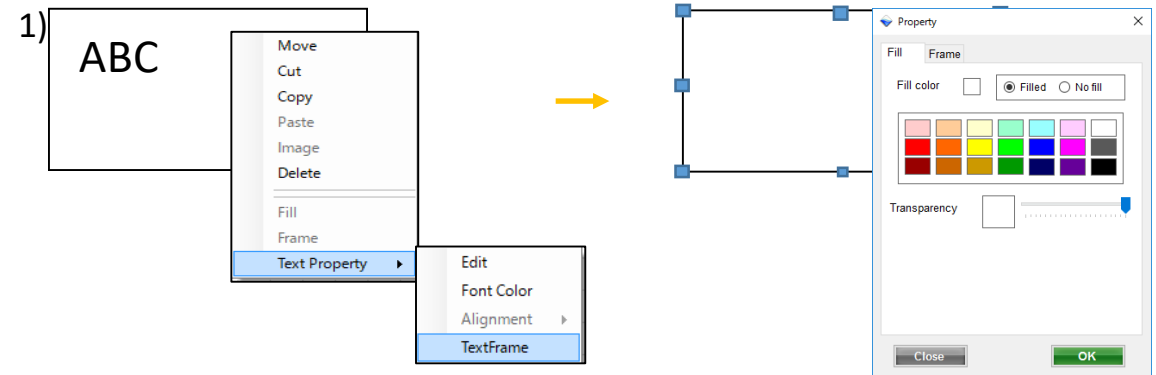
Font Color

- 1) Right-Click on drawing object's center point
Select Font Color
- 2) Select Text Color
- 3) Select Text and Text Size
- 4) Check Text Style
- 5) Select OK



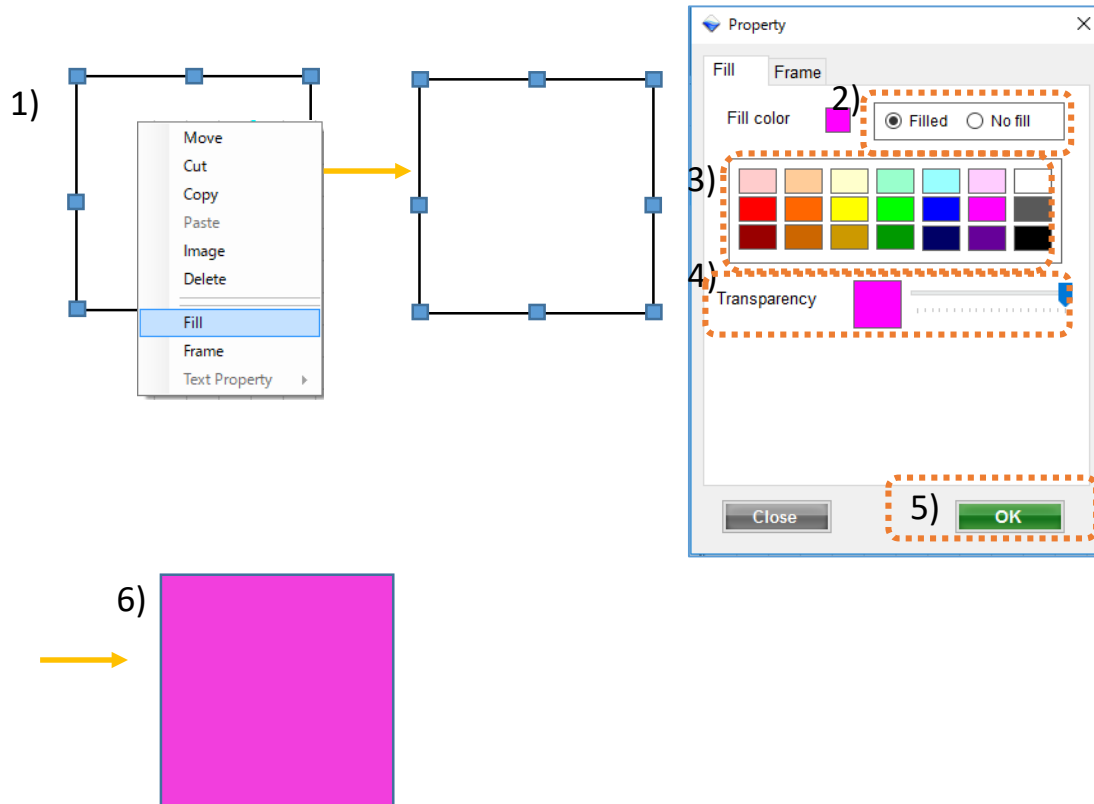
Text Frame

Refer to "Drawing(1/2)"



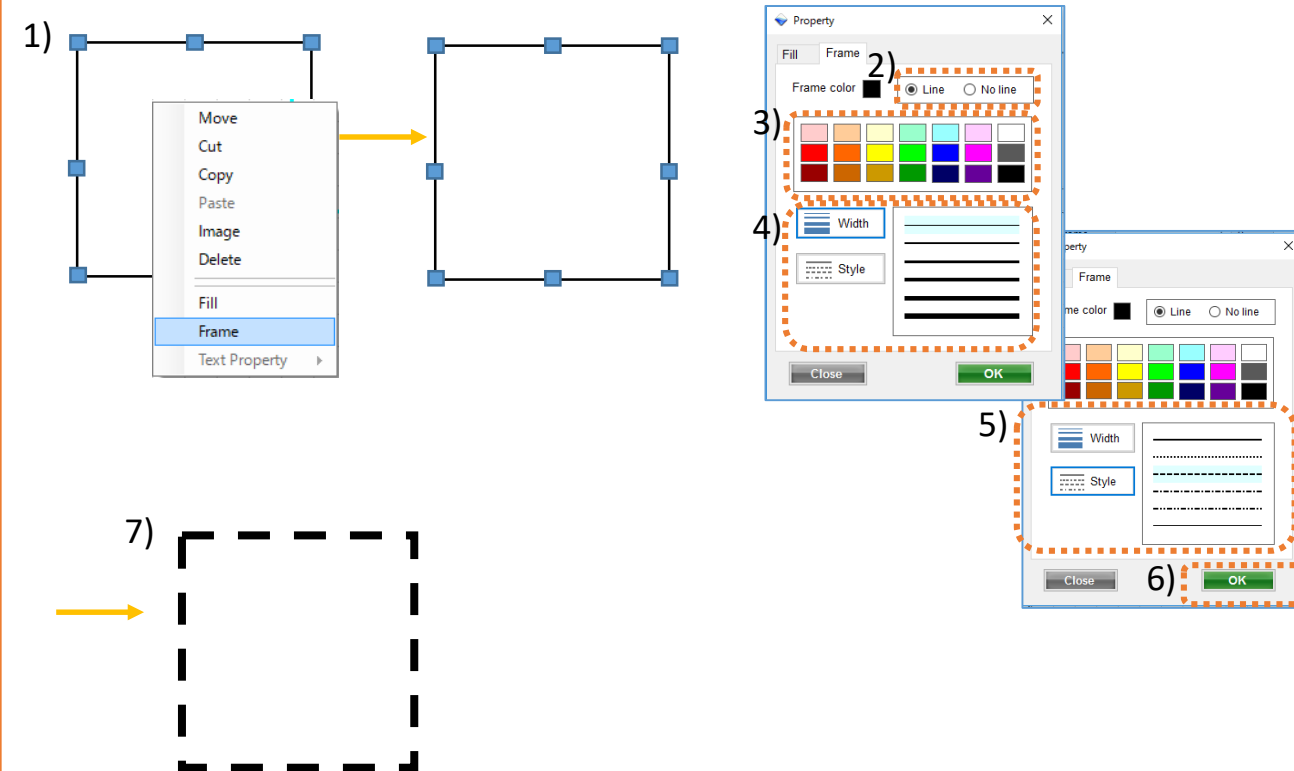
How to Fill a object (Square,Circle,Triangle)

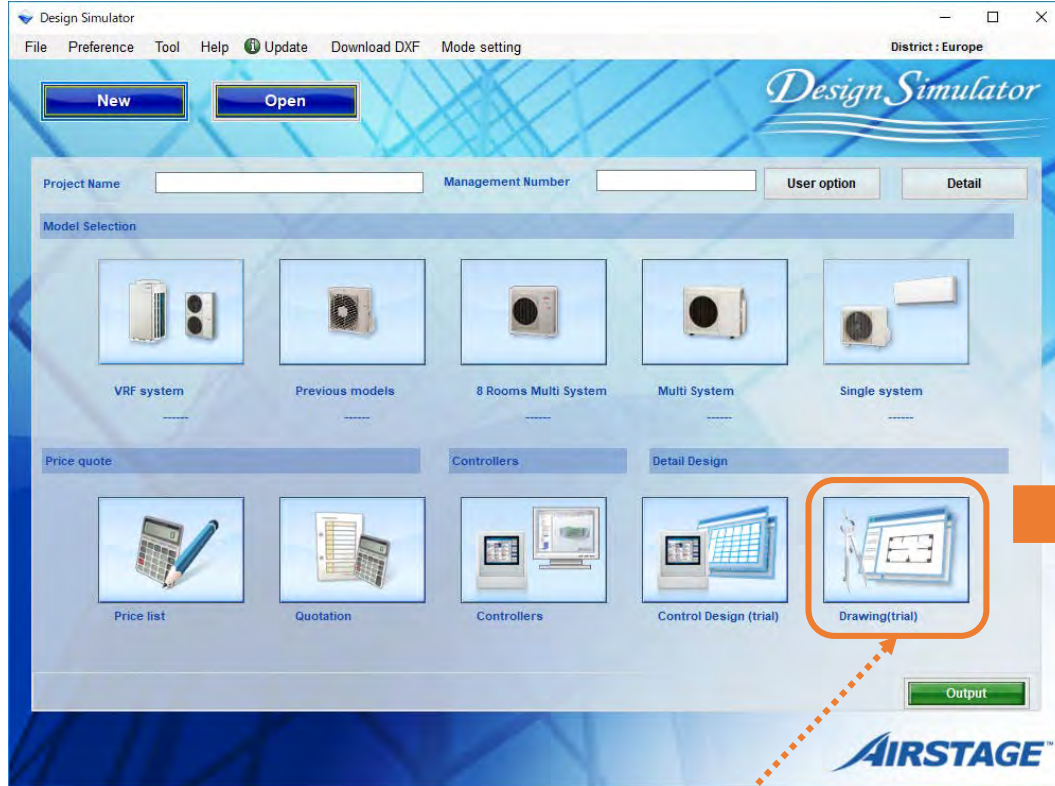
- 1)Right-Click on drawing object's center point
Select Fill
- 2)Select Filled
- 3)Select Color
- 4)Select Transparency
- 5)Select OK



How to Frame a object

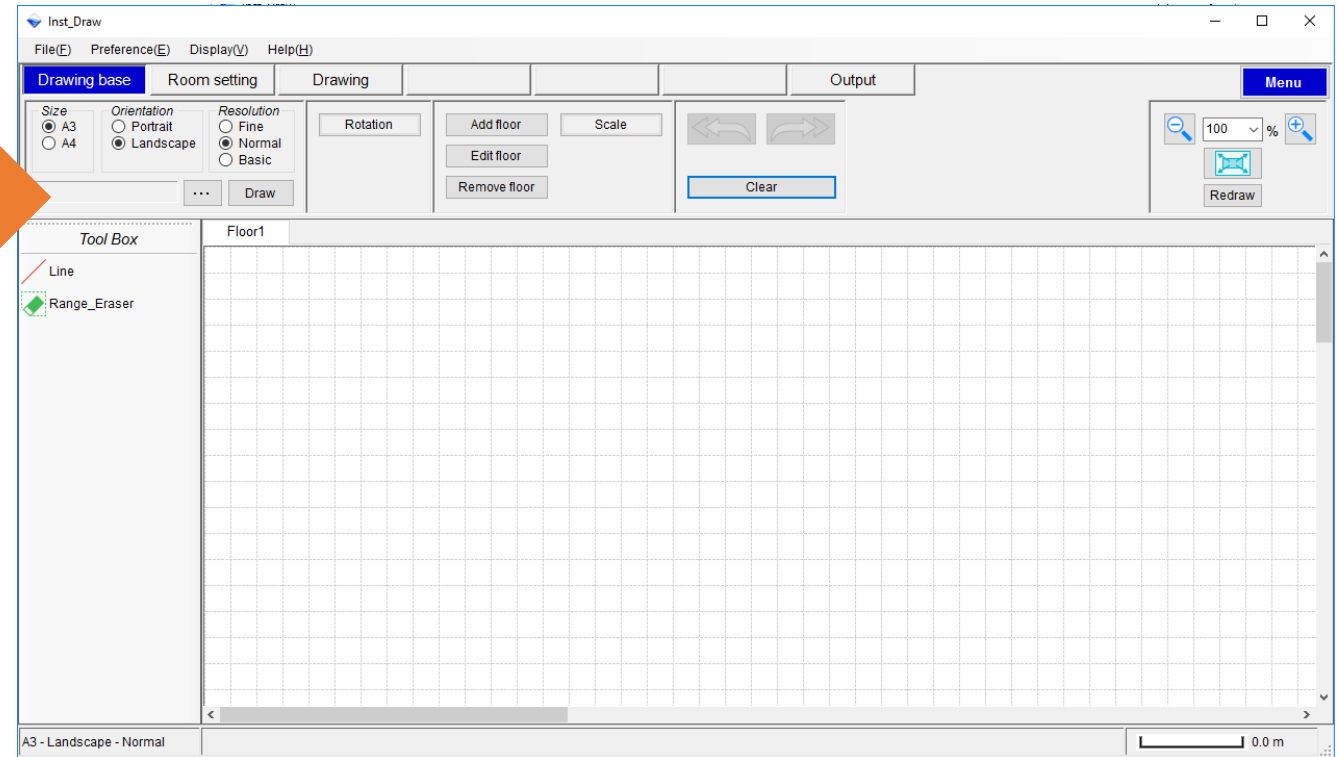
- 1)Right-Click on drawing object's center point
Select Frame
- 2)Select Line
- 3)Select Color
- 4)Select Width
- 5)Select Style
- 6)Select OK

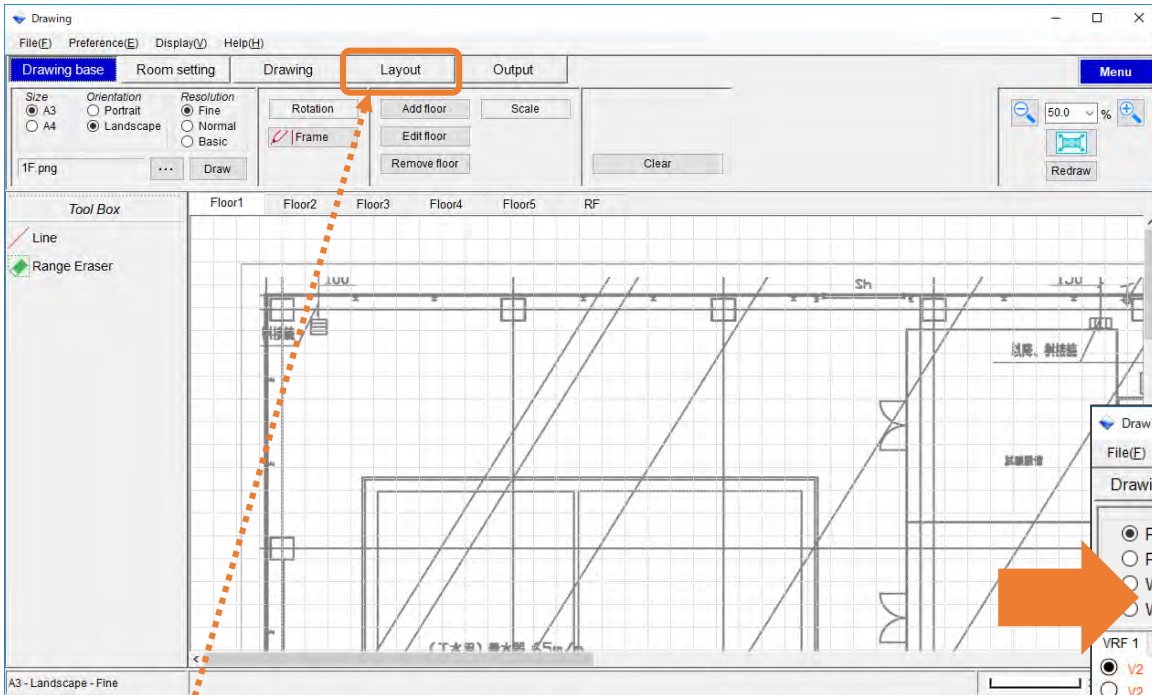




Select "Drawing Design"

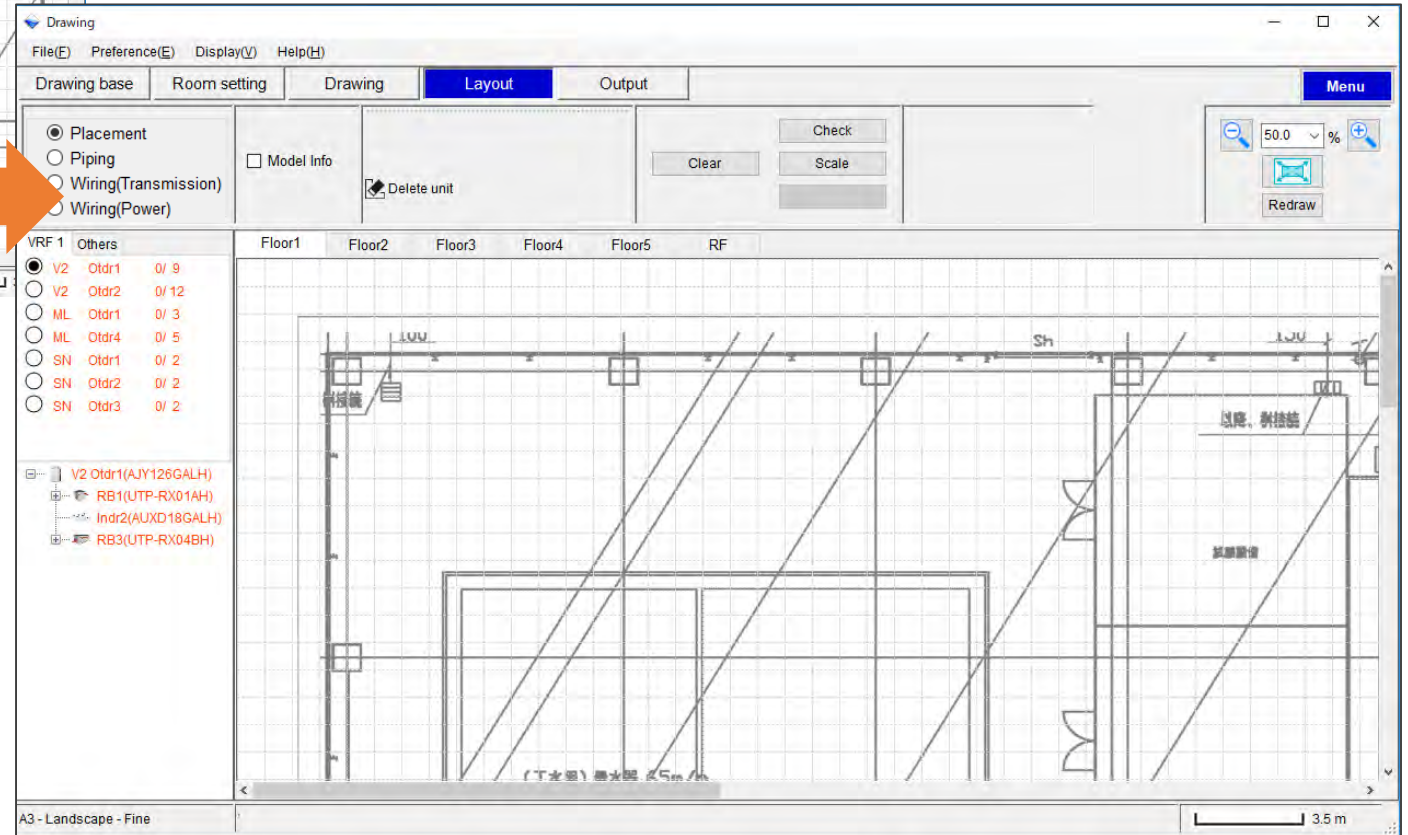
Drawing Design screen (Drawing base)

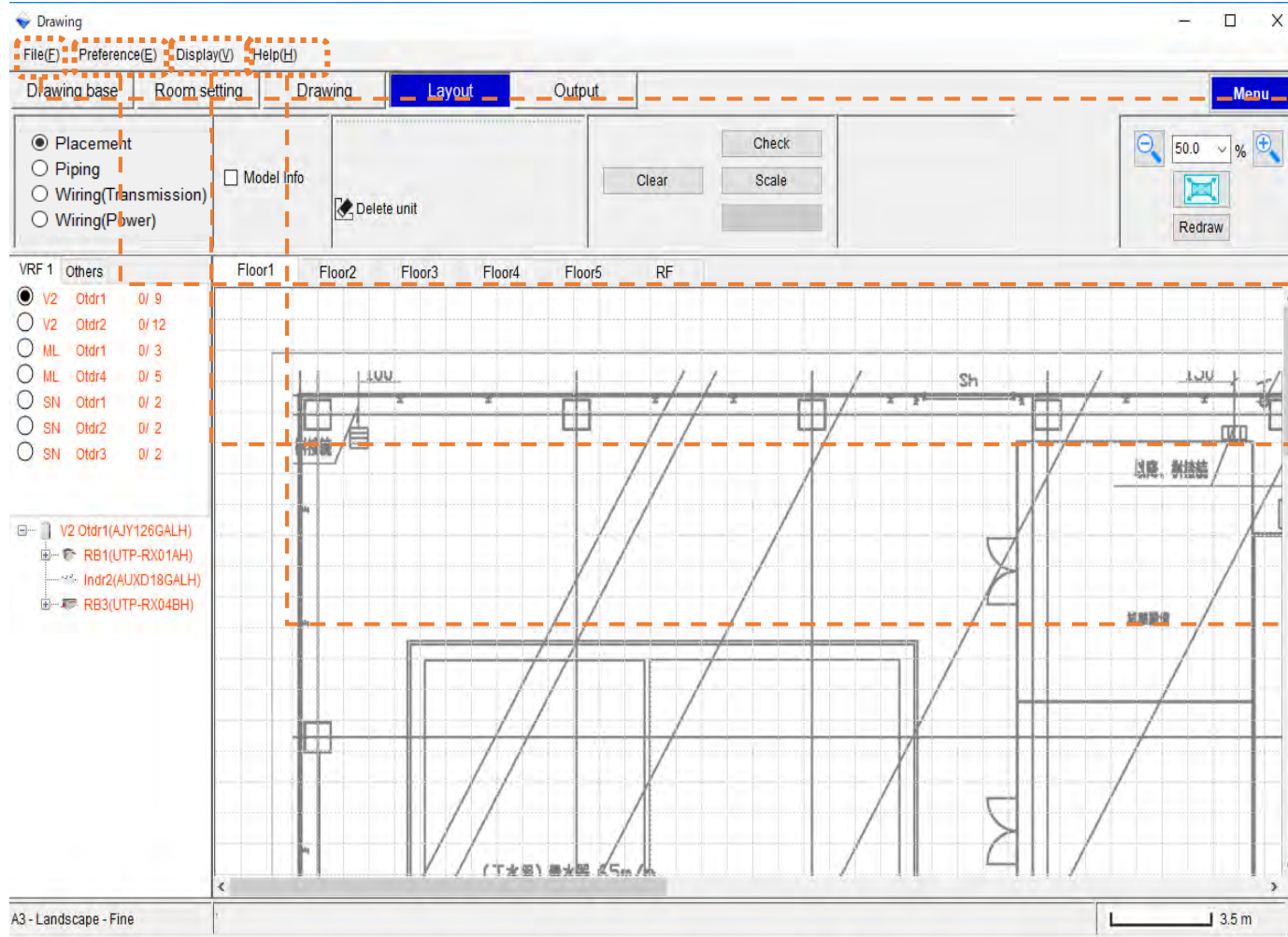




Select "Layout"

Layout screen (Placement)





File

File(F)

Exit(X)

: Go to menu screen

Preference

Preference(E)



Preference

: Refer to "Preference"

Display

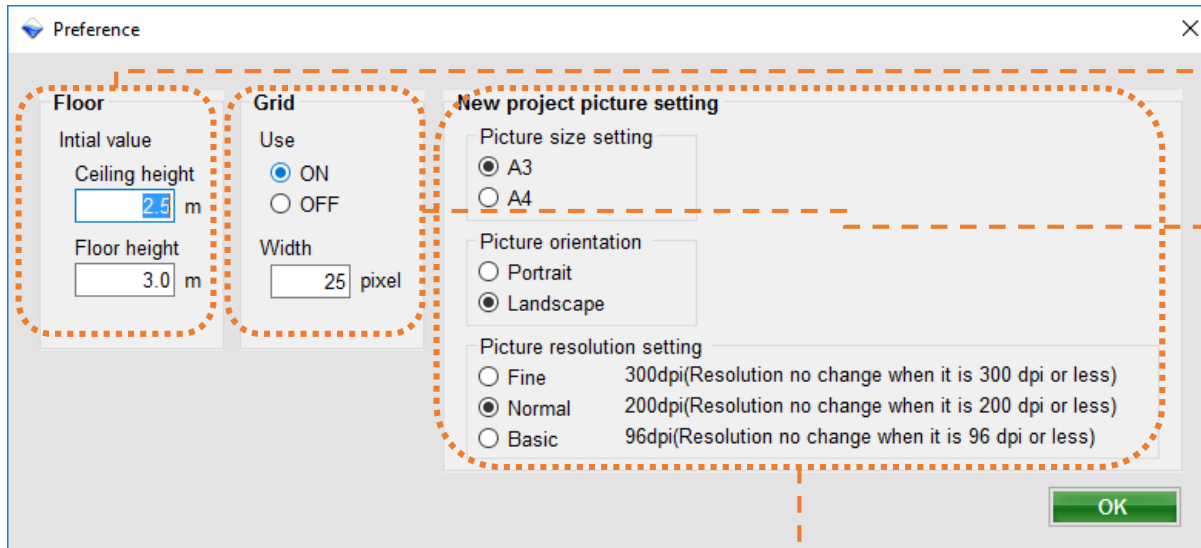
Refer to "Display"

Help

Help(H)

Manual

: Display Manual



Floor

Sets the initial value of the floor

Grid

Use : Grid usage setting

Width : Set the width of the grid

New project picture setting

New project import picture setting

Picture size setting : Set capture size of picture

Picture orientation : Set the orientation of picture

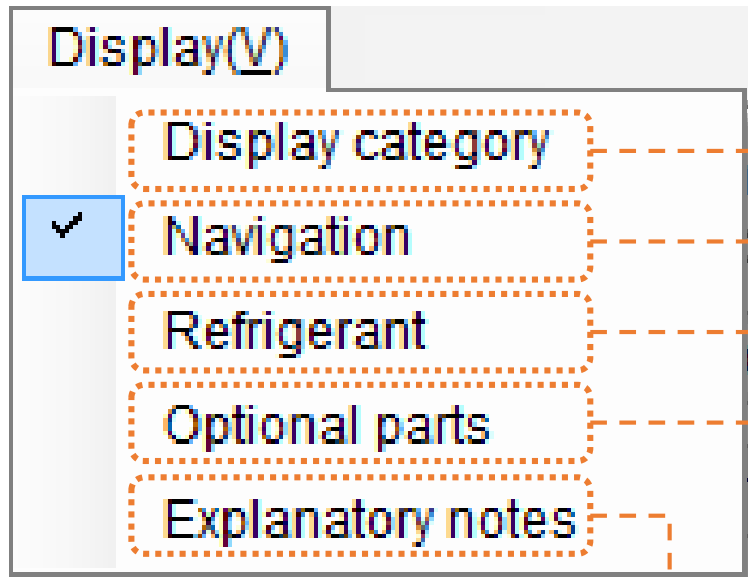
Picture resolution setting : Set picture resolution

Fine : Capture with resolution equivalent to 300 dpi

Normal : Capture with resolution equivalent to 200dpi

Basic : Capture with resolution equivalent to 96dpi

* Picture resolution setting is no change,
when picture resolution or less



Display category screen
Display category screen
The selected screen is overlaid and displayed

Display category	
<input checked="" type="checkbox"/>	Drawing base
<input checked="" type="checkbox"/>	Room setting
<input checked="" type="checkbox"/>	Drawing
<input type="checkbox"/>	Placement
<input type="checkbox"/>	Piping
<input checked="" type="checkbox"/>	Wiring

Navigation
Display Navigation screen

Refrigerant
Display list of refrigerant equipment

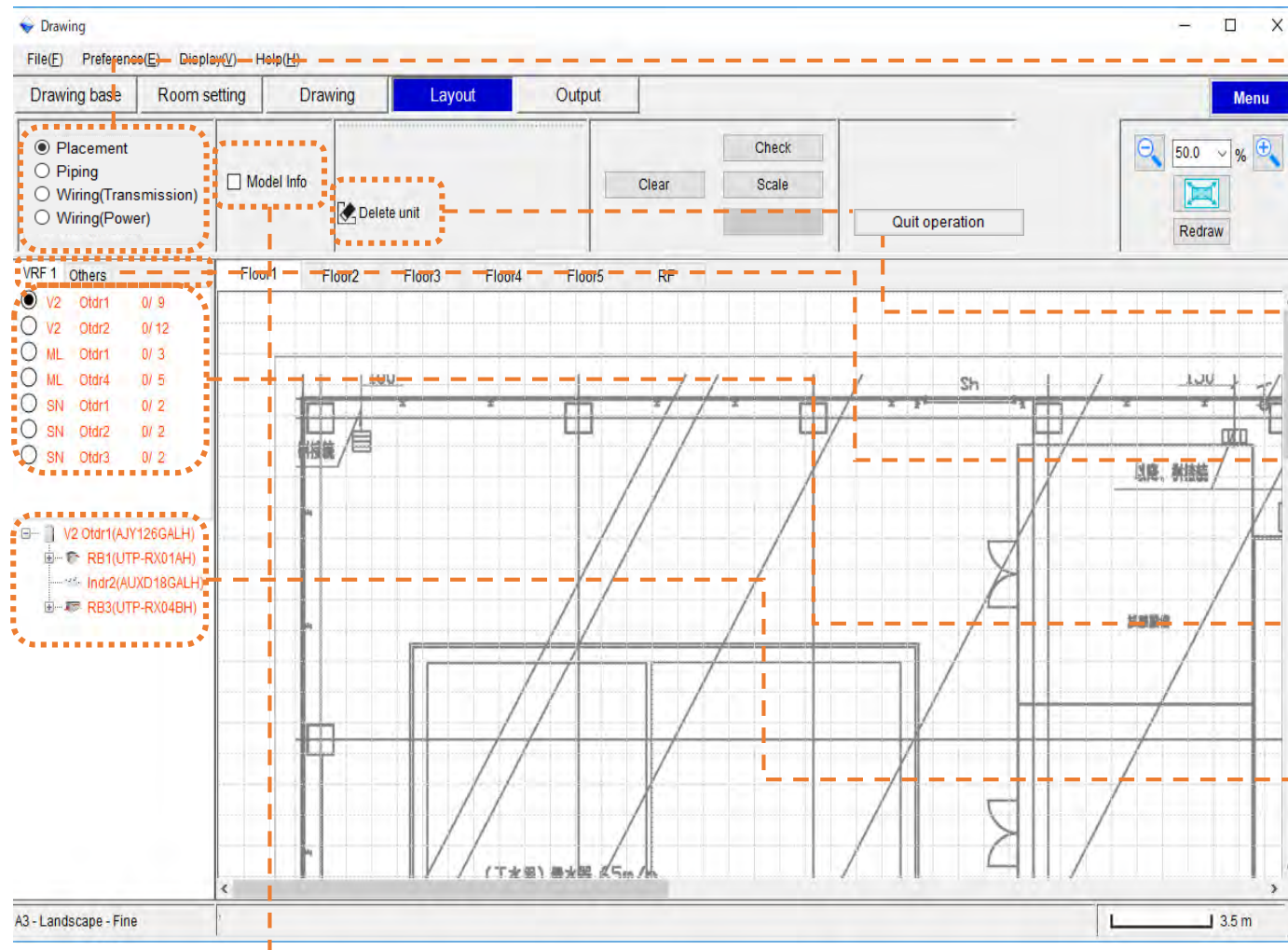
Name	Model	Capacity	Dimensions	Floor	Room
RB1	UTP-RU04BH	-	200x58x428		
Indr1	AUUB18TLAV	18kW / 20kW	245x840x840		
Indr2	AUUB18TLAV	18kW / 20kW	245x840x840		
Indr3	AUUB18TLAV	18kW / 20kW	245x840x840		
Indr4	AUUB18TLAV	18kW / 20kW	245x840x840		
Indr5	AUUB18TLAV	18kW / 20kW	245x840x840		
Chc2	AQUASCLCV	960W / 1080W	169x250x765		
RB1	UTP-RU01BH	-	198x298x268		
Indr6	AUUB18TLAV	18kW / 20kW	245x840x840		
Indr7	AUUB18TLAV	18kW / 20kW	245x840x840		
RB3	UTP-RU01AH	-	198x298x268		
Indr8	AUUB18TLAV	18kW / 20kW	245x840x840		
Indr9	AUUB18TLAV	18kW / 20kW	245x840x840		

Refrigerant
Display list of wiring terminal

Legend	Line	explain
T	X1,X2	Transmission
T1	1,2,3	Power line and Control line
TA	A,B,SGND	Transmission BACNet(Hardware)
TP	1,2,3	Power line
K1	K1,K2,K3	Network: Converter
A	1,2,3	2-6Multi Outdoor only Power line
B	1,2,3	2-6Multi Outdoor only Power line
C	1,2,3	2-6Multi Outdoor only Power line
D	1,2,3	2-6Multi Outdoor only Power line

Optional parts
Display list of Pipe and Branch and RB Unit Models

Pipe(HR)	Pipe(except HR)	RB unit	Branch	Header
Legend	Liquid	Discharge Gas	Suction Gas	
a)	9.52		12.70	
b)	9.52		15.88	
c)	9.52		12.70	
d)	9.52		15.88	
e)	9.52		19.05	
f)	9.52		22.22	
g)	9.52		15.88	
h)	12.70		15.88	



Function switching(refer to function)
Placement : Refrigerant arrangement
Piping : Piping setting
Wiring(Transmission): Wiring setting
Wiring(Power) : Power supply setting

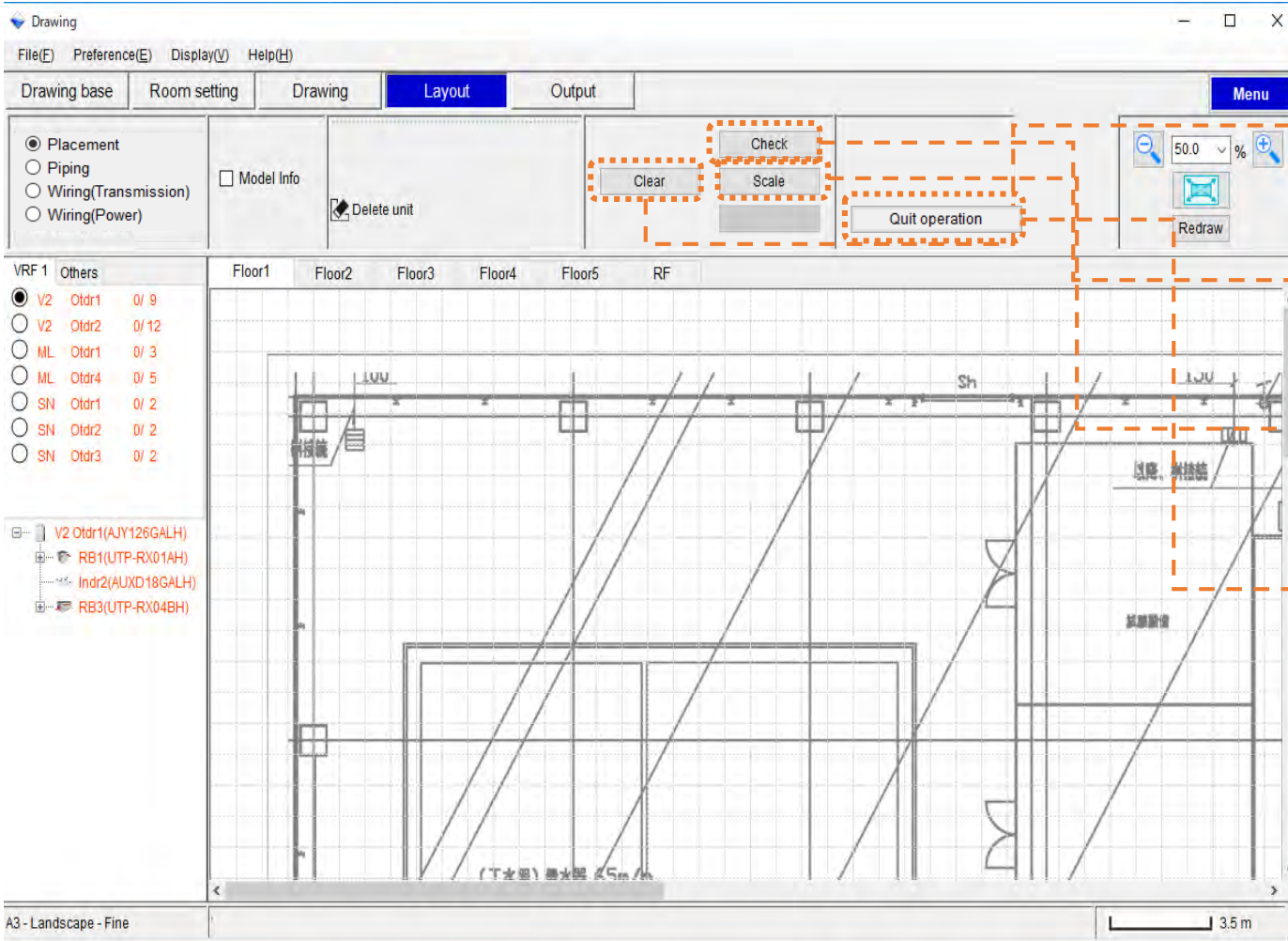
Delete unit
Delete the selected unit

VRF network system
Multi and Split not connected to VRF network system is displayed in "Others"

Refrigerant list
Refrigerants selected by Design simulator is displayed

Select refrigerant
Details of the refrigerant selected in the Refrigerant list are displayed

Model Info
Displays unit information

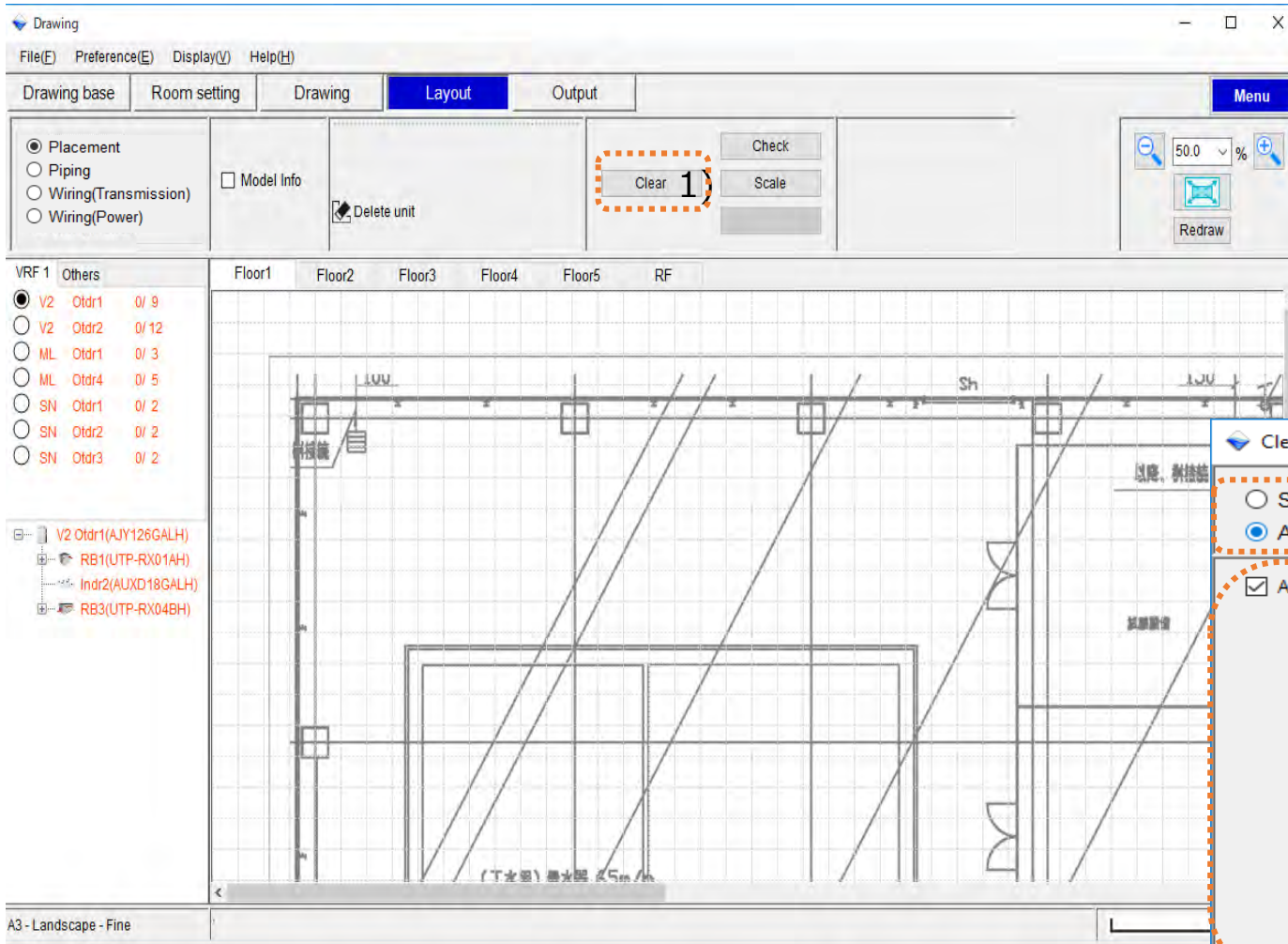


Clear
Refer to "Clear"

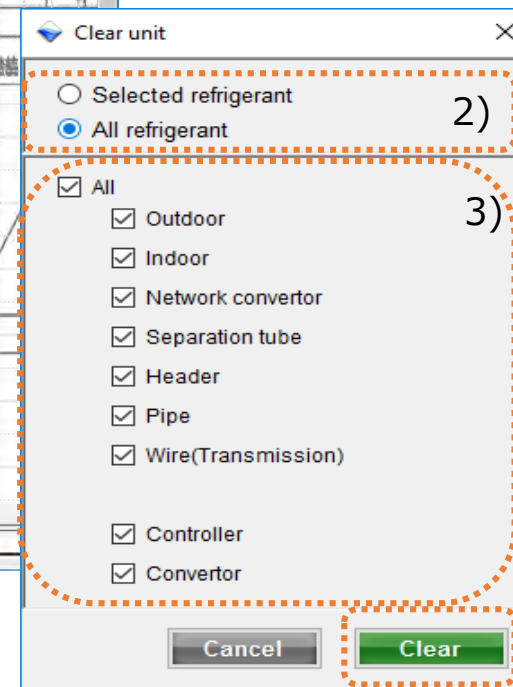
Check
Refer to "Check"

Scale
Refer to "Scale setting"

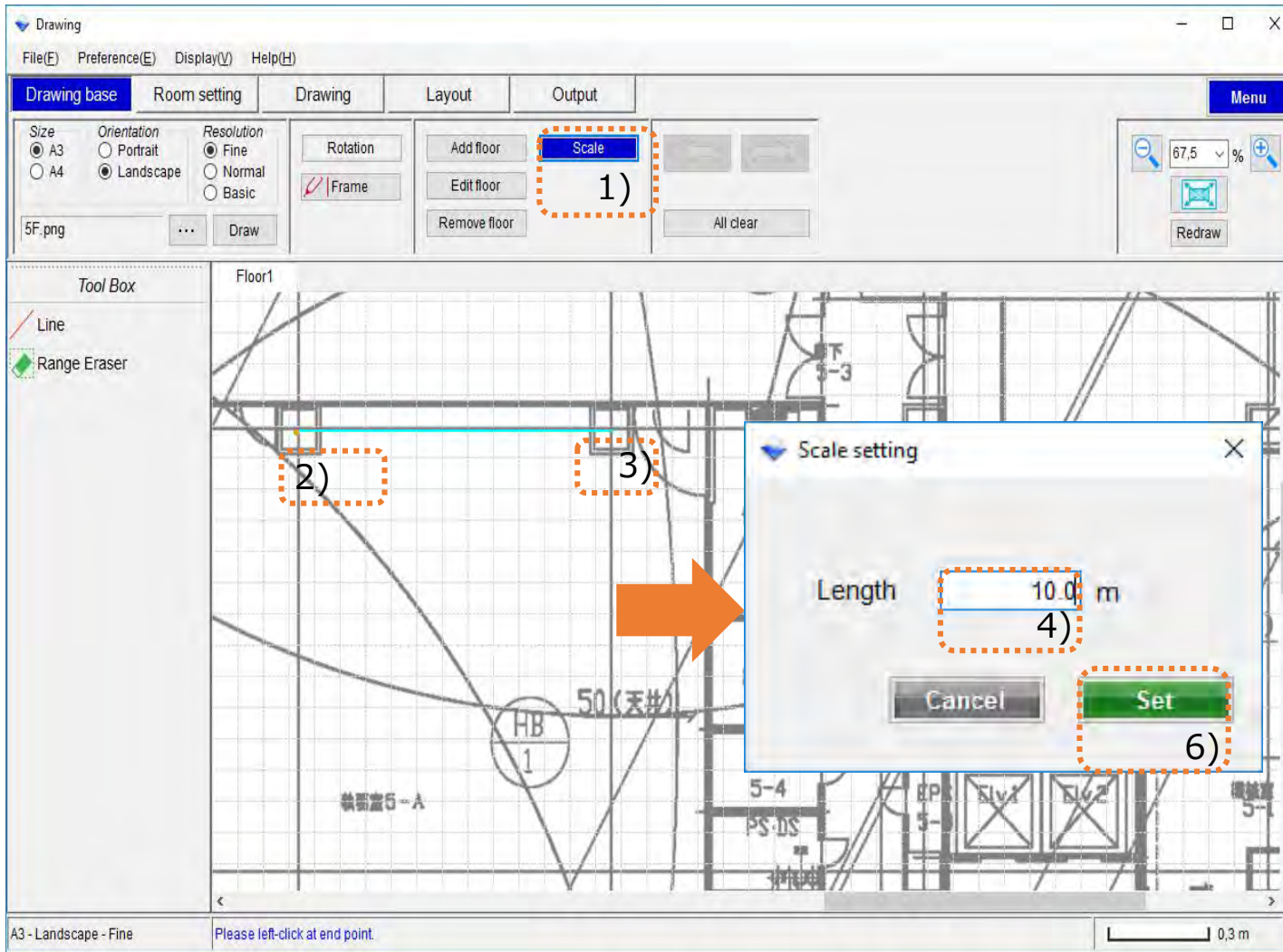
Quit operation
Quit current operation



- 1) Press Clear button
- 2) Check the All or Selected refrigerant
- 3) Check the device or unit to be deleted
- 4) Press Clear

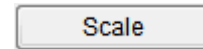


How to scale setting

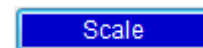


1) Select Scale

Not selected scale



Selected scale



2) Left-click at starting point

3) Left-click at end point

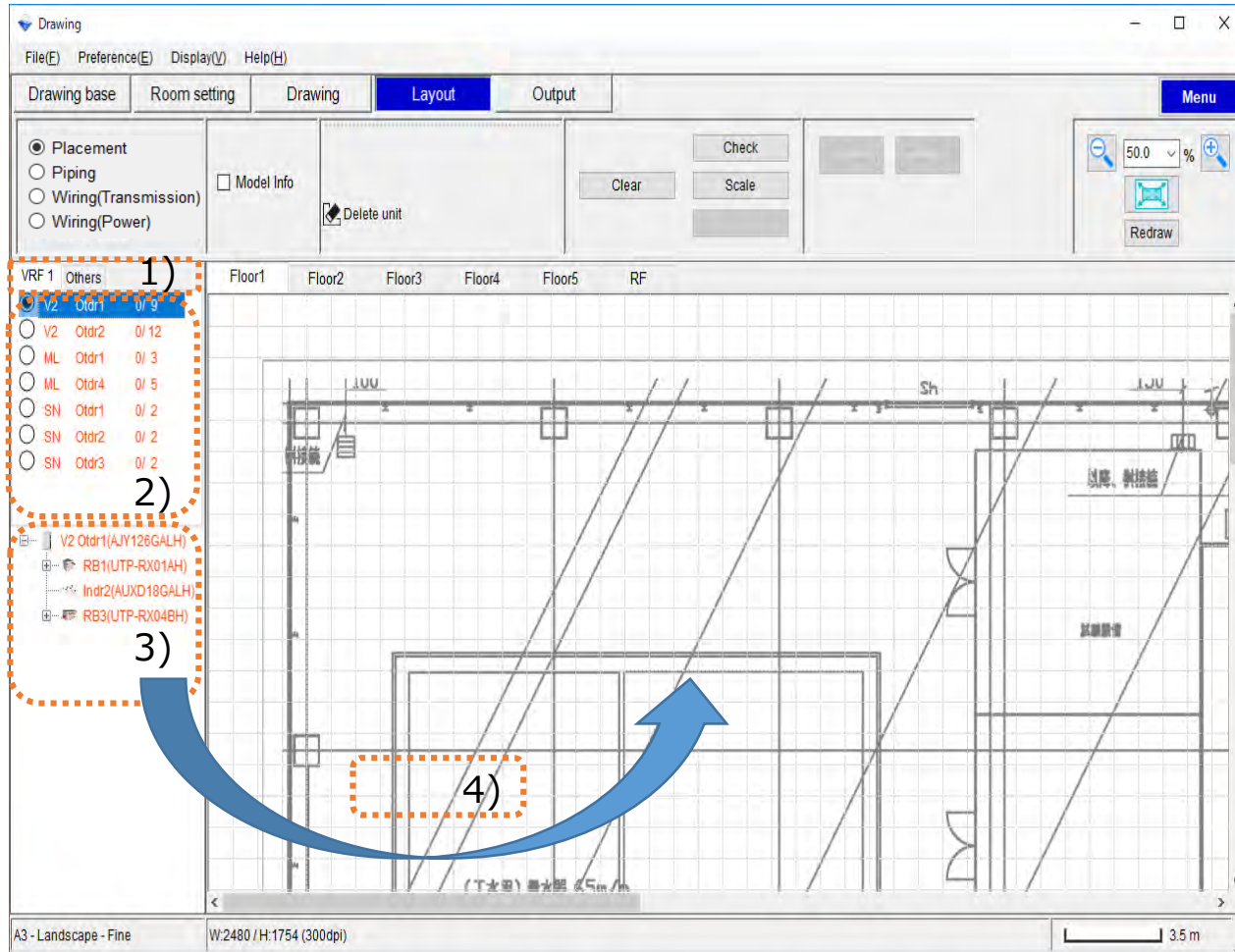
4) Input the scale

5) Press Tab key

6) Press Set

*If stop drawing ,Press the Esc button

How to arrangement units



1) Select VRF Network System

2) Select refrigerant

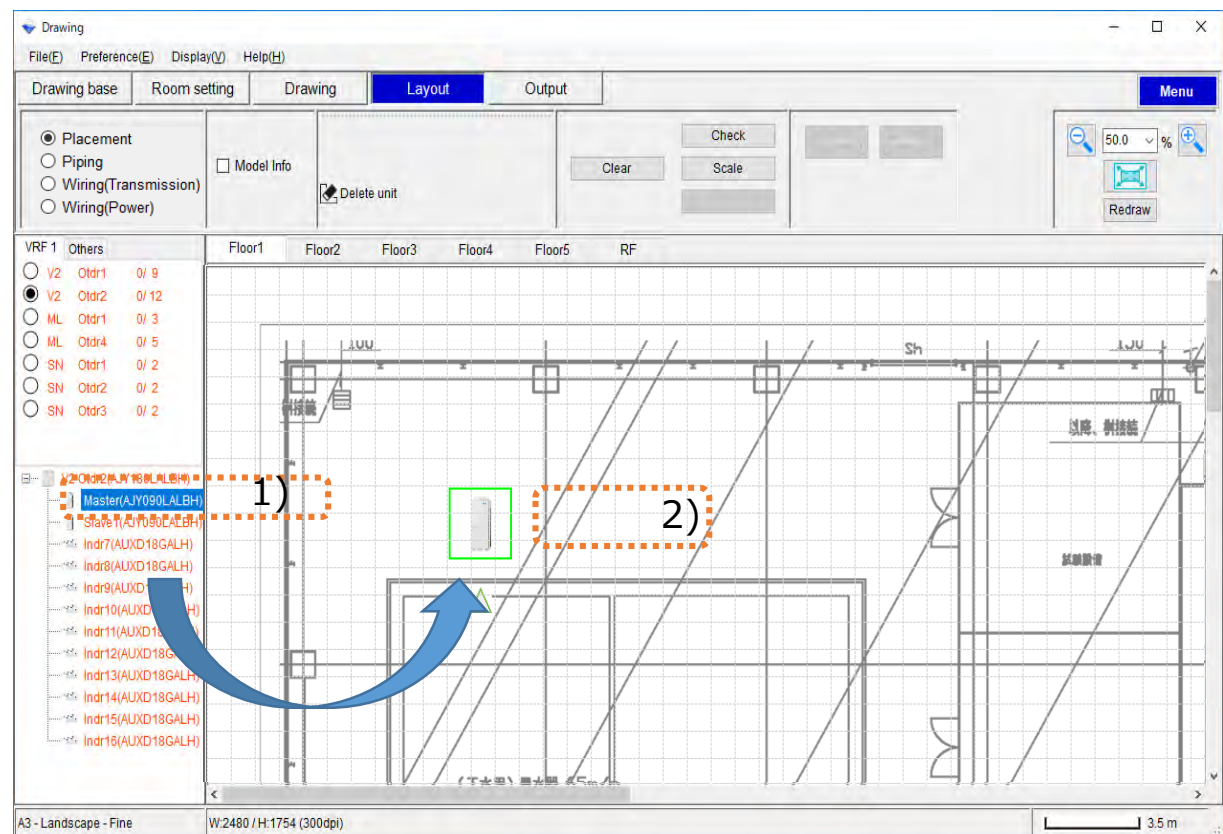
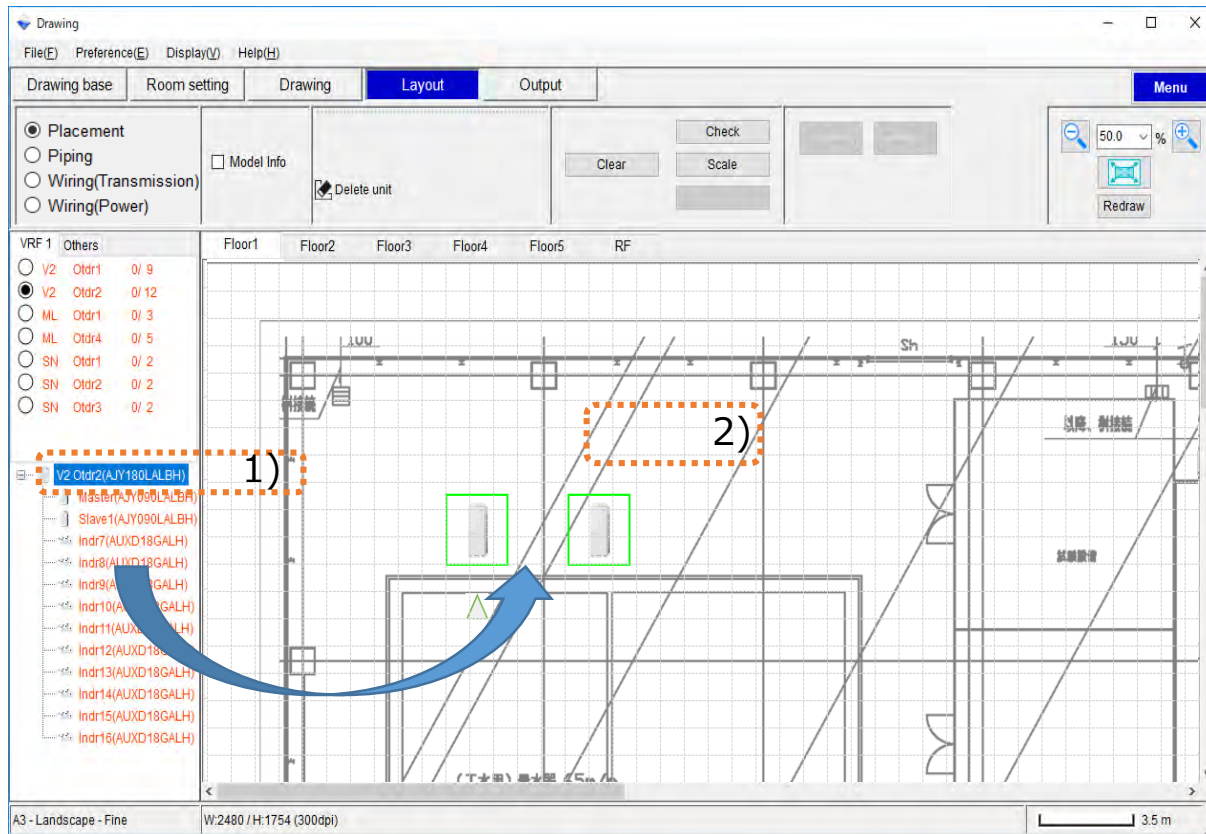
3) Select Unit

4) Drag & Drop On Work area

Unplaced is orange, and already arranged is light blue

How to arrangement units(Combination)

How to arrangement units(Single unit)



1) Select refrigerant

2) Drag & Drop on work area

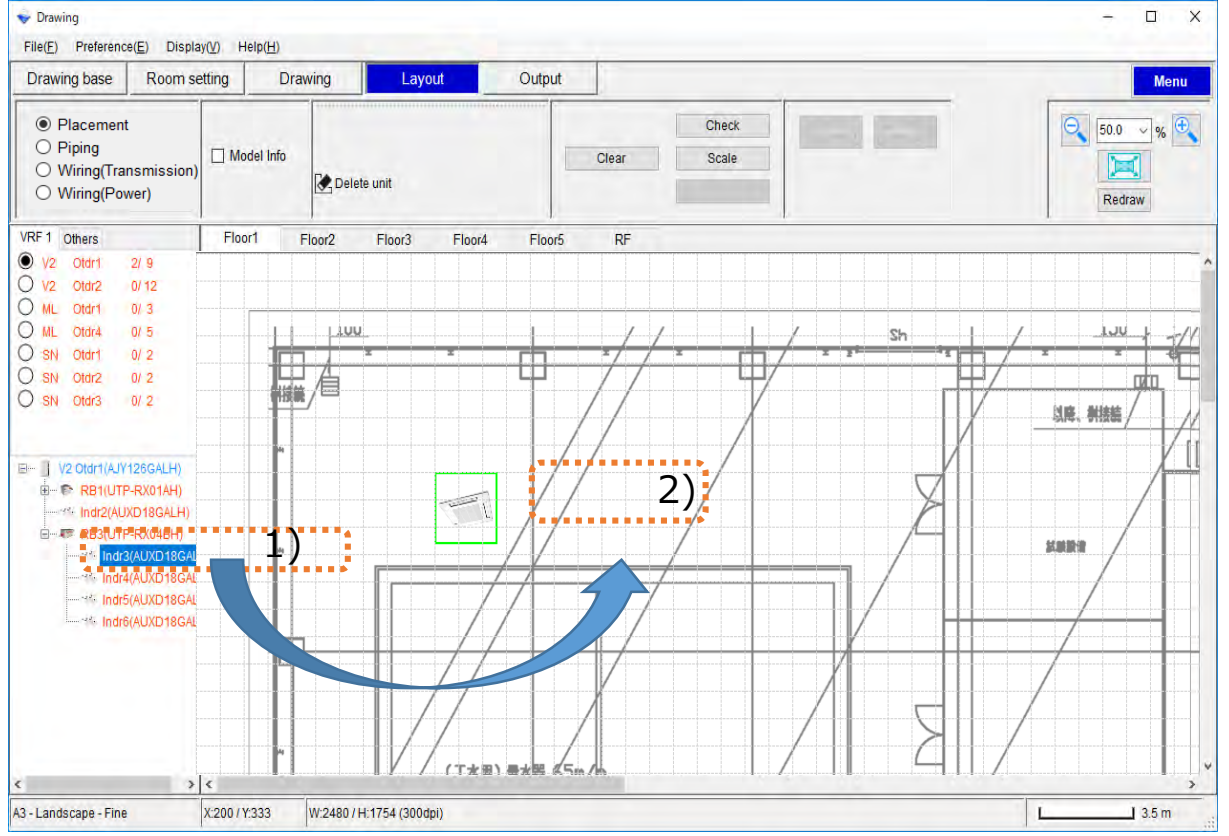
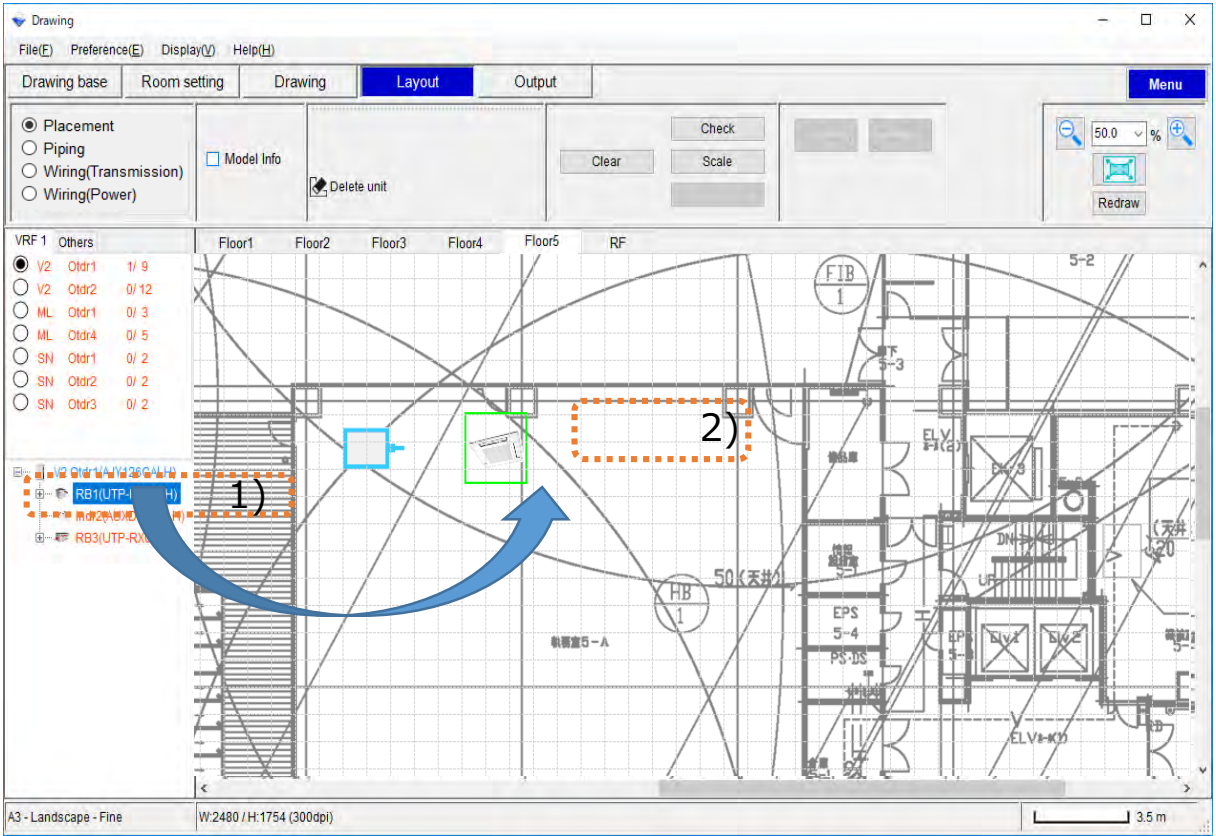
When Refrigerant are Drag & Drop on work area ,
master and slave units are arrange

1) Select refrigerant

2) Drag & Drop on work area

When master or Slave units are Drag & Drop on
work area ,master and slave unit only arrange

How to arrangement units

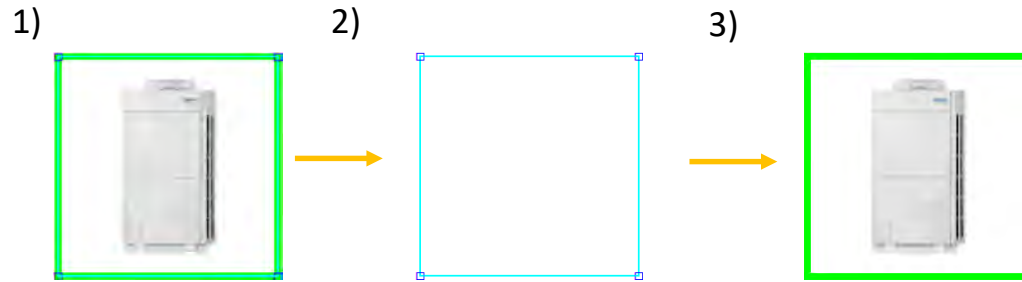


1) Select refrigerant
2) Drag & Drop on work area
When RB unit are Drag & Drop on work area ,
RB unit and indoor unit arrange

1) Select refrigerant
2) Drag & Drop on work area

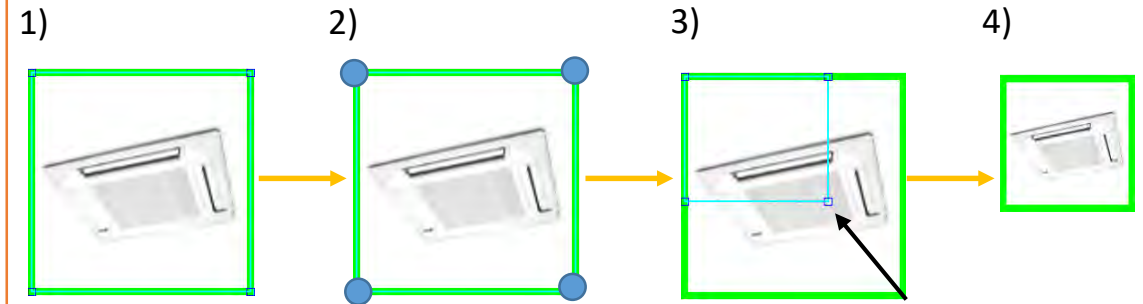
Move(1/2)

- 1)Right-click at Menu and Select Move
- 2)Drag to end point
- 3)Left-click at end point



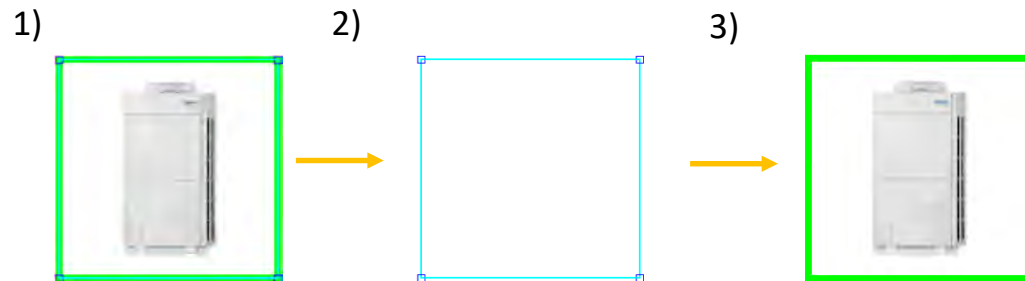
Resize(Outdoor,Indoor)

- 1)Right-click at Menu and Select Resize
- 2)Mouse cursor on any of the four corners of the Unit
- 3)Drag the mouse to the size to change
- 4) Left-click at Work area



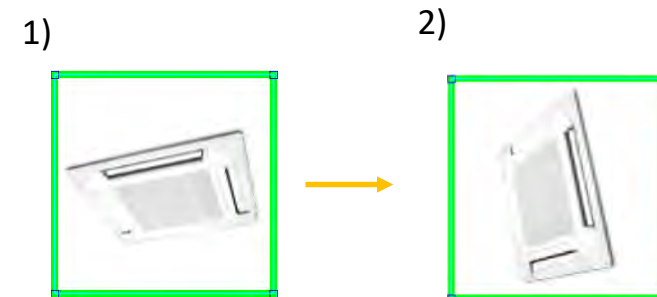
Move(2/2)

- 1)Left-click Unit
- 2)Drag to end point
- 3)Left-click at end point



Rotation

- 1)Right-click at Menu and Select Rotation
- 2)Unit to Rotate 90 degrees to the right



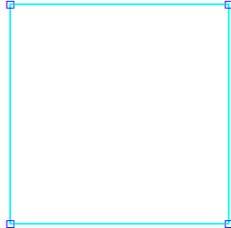
Delete

- 1) Right-click at Menu and Select Delete
- 2) Confirmation dialog is displayed
 - 2-1) Click OK to delete the unit
 - 2-2) Click Cancel to cancel the deletion

1)



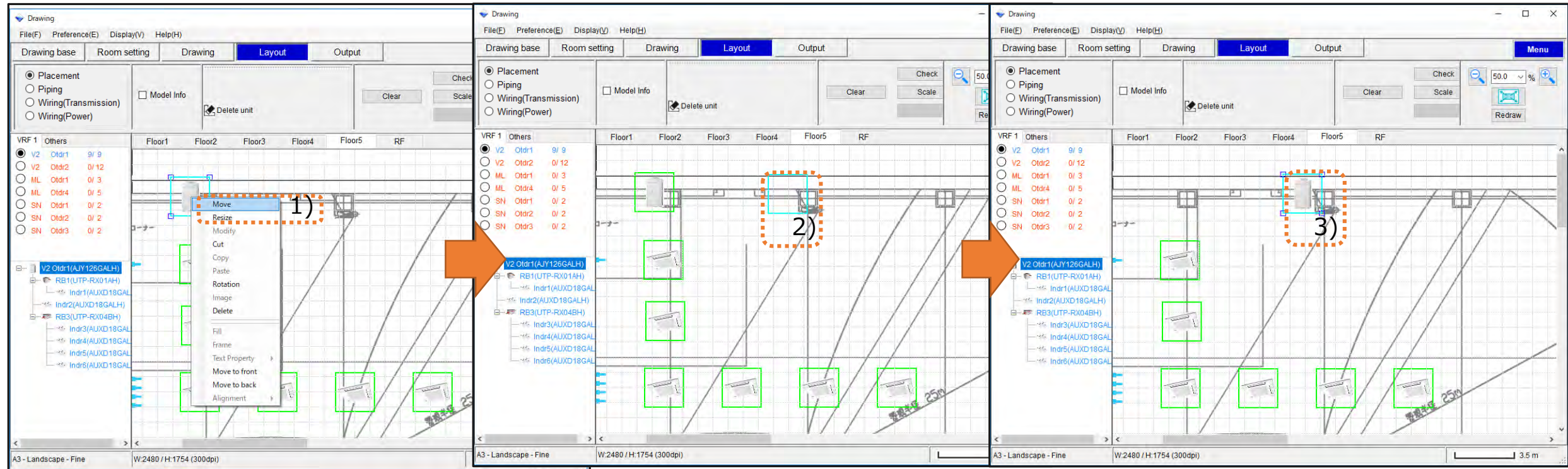
2-1)



2-2)

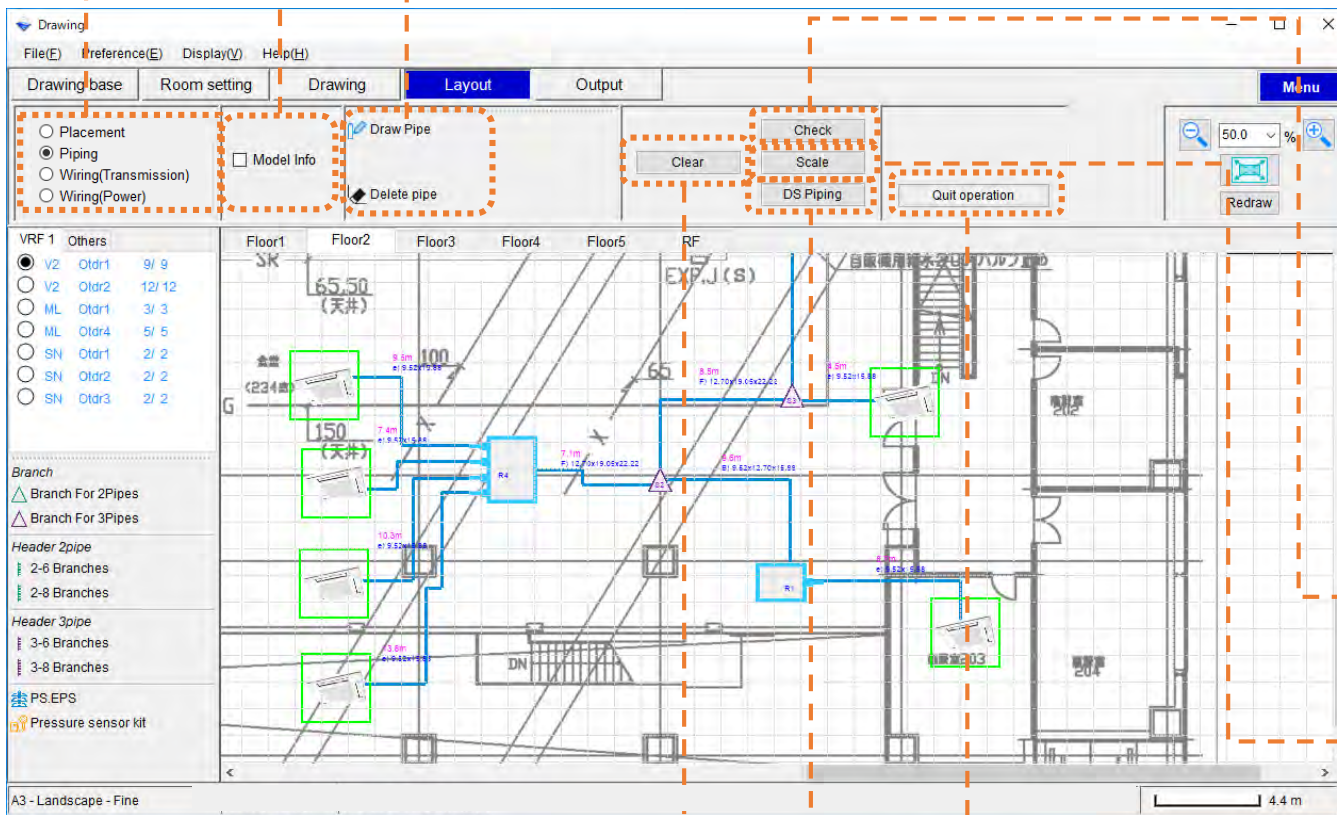


How to Move



- 1) Select Move
- 2) Drag to end point
- 3) Left-click at end point

*If stop Move ,Press the Esc Key or Quit operation



Function switching(refer to function)

- Placement : Refrigerant arrangement
- Piping : Piping setting
- Wiring(Transmission): Wiring setting
- Wiring(Power) : Power supply setting

Display setting

- Model Info: Show unit's information

Pipe line

- Draw pipe : Refer to "Draw Pipe-Auto" , "Draw Pipe -Manual"
- Delete pipe : Delete the selected pipe

Check

- Refer to "Check"

Scale

- Refer to "Scale setting"

DS Piping

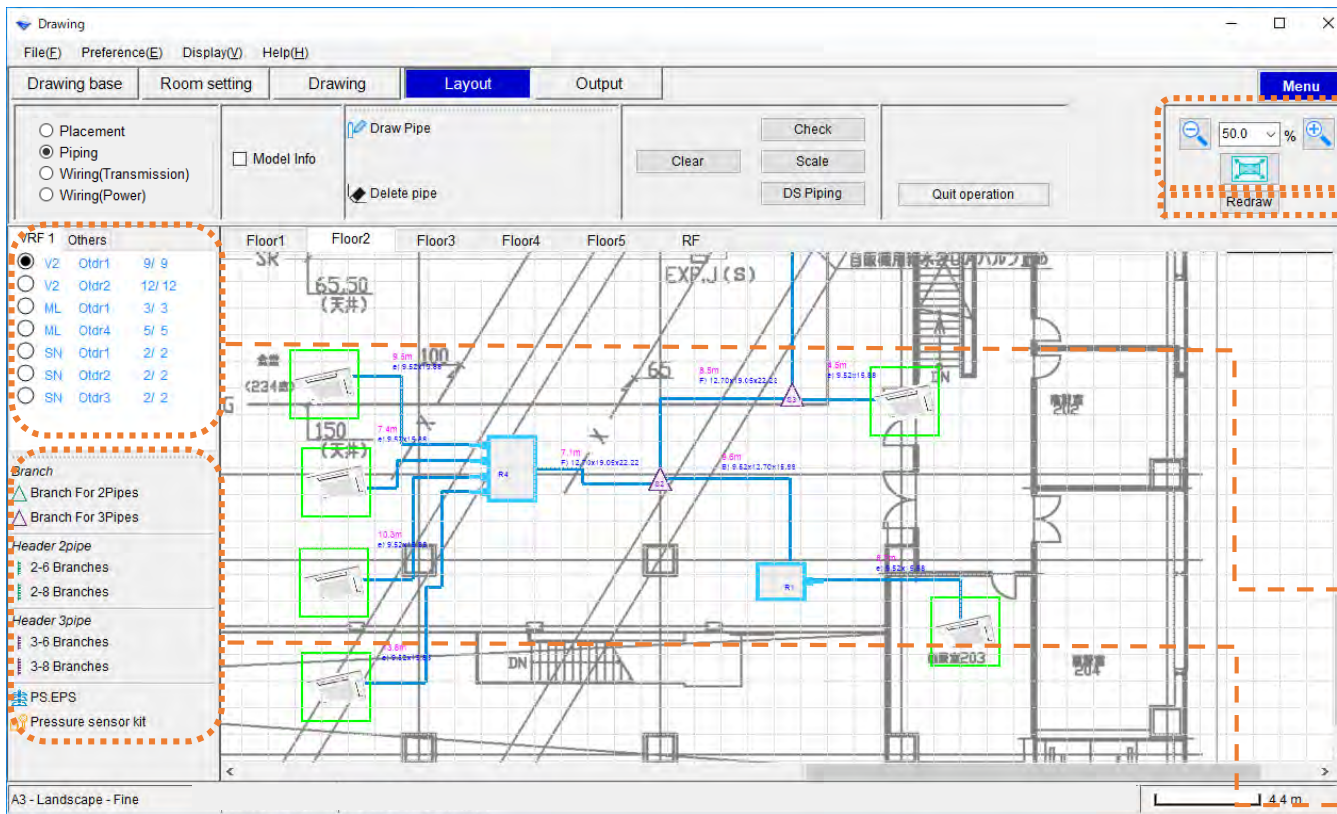
- Show DS piping screen

Quit operation





- Quit current operation

Clear

- Refer to "Clear"



Zoom to

-  : Zoom up
-  : Zoom down
-  : Select zoom
-  : Full picture display

Redraw

Redraw: Draw the displayed picture again

Refrigerant list

Refer to "Draw Pipe -Auto","Draw Pipe -Manual"

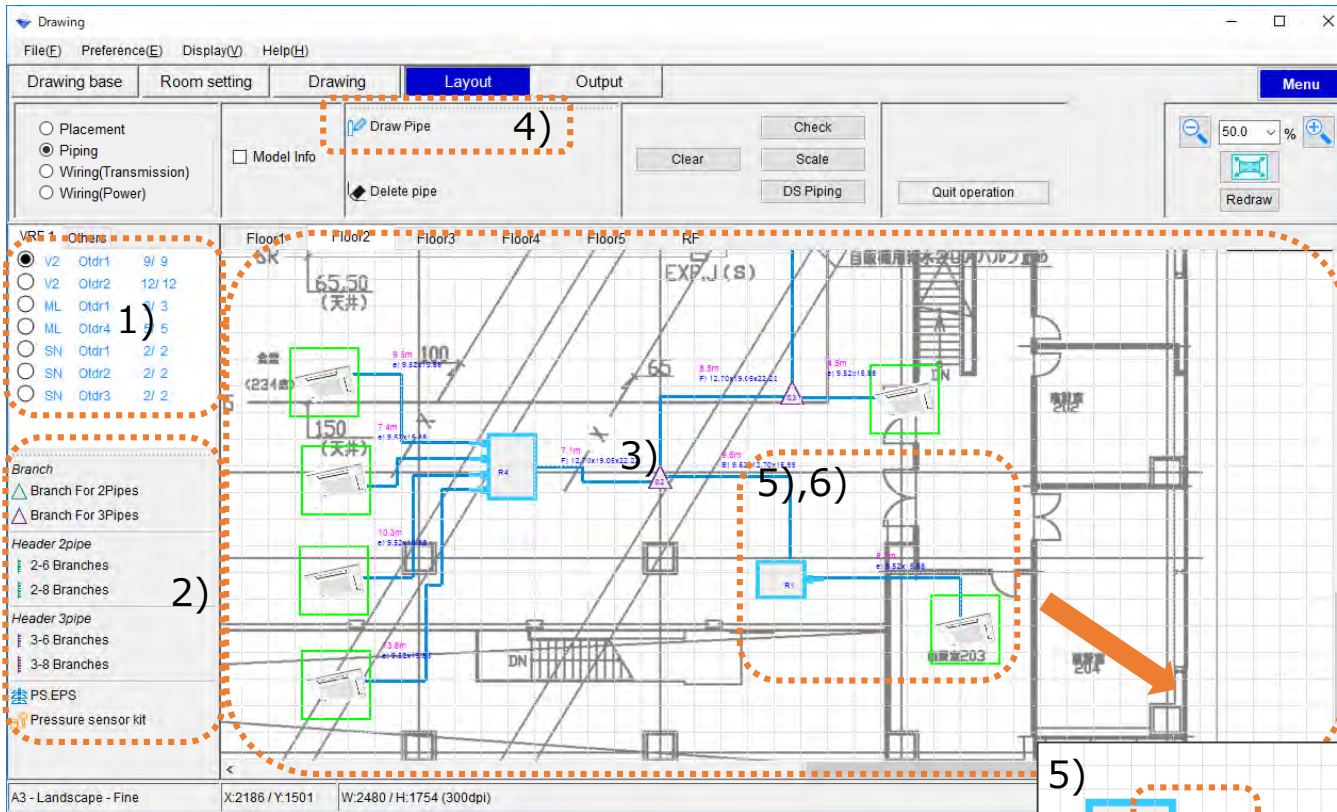
Tool box

Branch For 2Pipes, Branch For 3Pipes
Header 2-6Pipe, 2-8Pipe, 3-6Pipe, 3-8Pipe
PS EPS, Pressure sensor kit :

Refer to "Draw Pipe -Auto","Draw Pipe -Manual"

- *PS : Pipe Space
- EPS : Electric Pipe Space

How to draw a pipe automatically



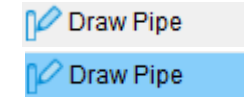
1) Select refrigerant

2) Select a part

3) Left-Click on work area for part placement

4) Press Draw Pipe

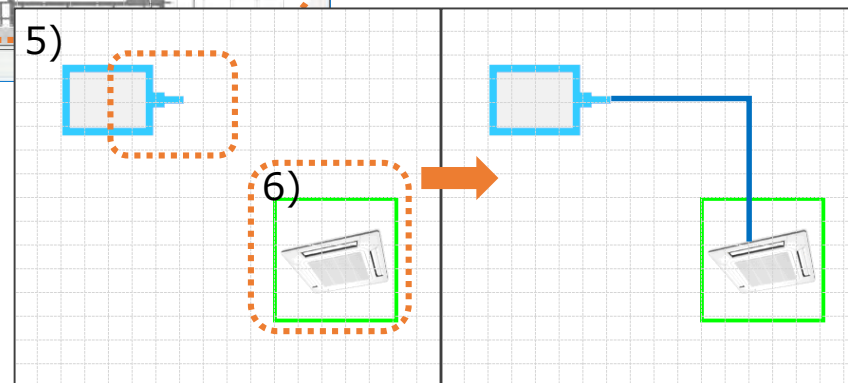
Not selected Draw Pipe
Selected Draw Pipe



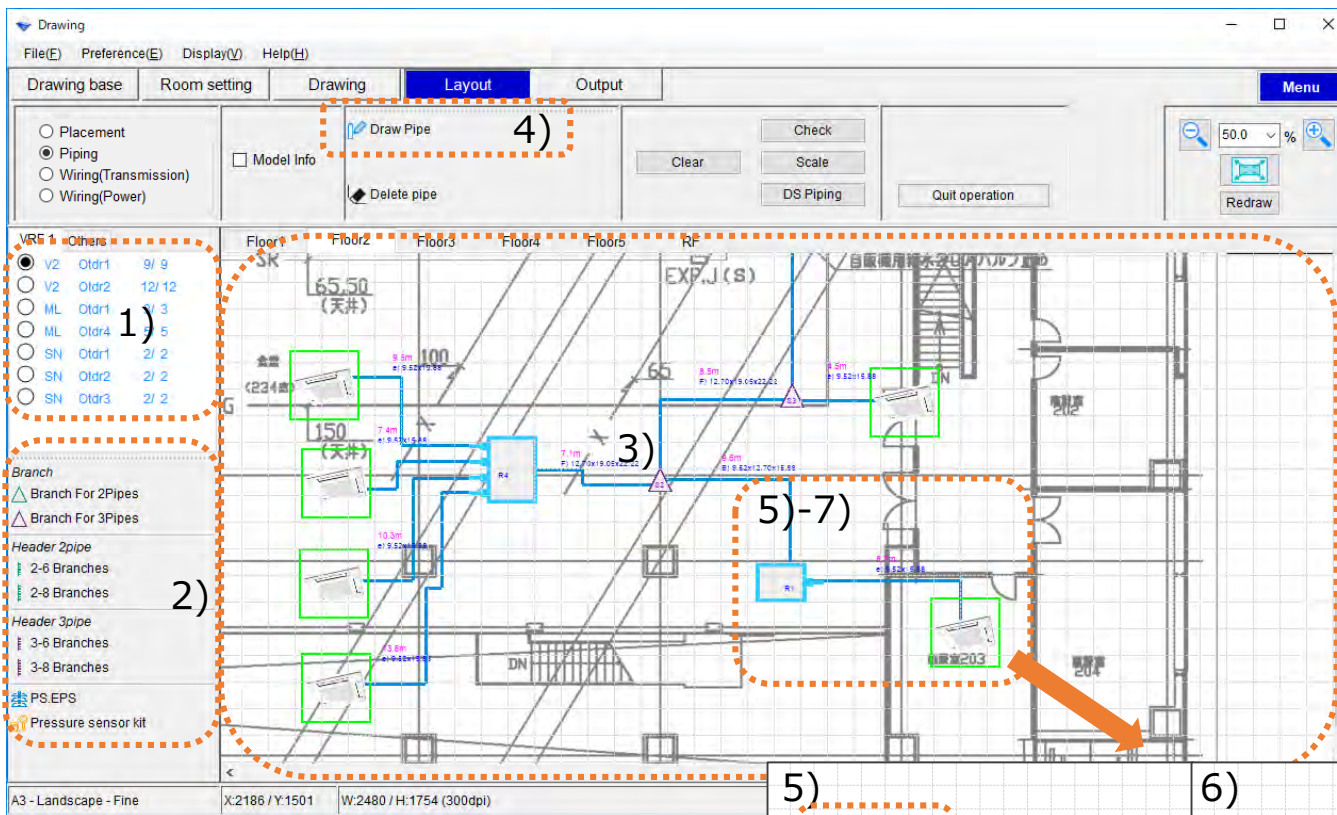
5) Left-Click on the unit

6) Double-Click on another unit

The case of 2-6 Multi split, when drawing a pipe, wiring(transmission) line is drawn automatically



How to draw a pipe manually



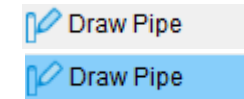
1) Select refrigerant

2) Select parts

3) Left-Click on work area

4) Press Draw Pipe

Not selected Draw Pipe
Selected Draw Pipe

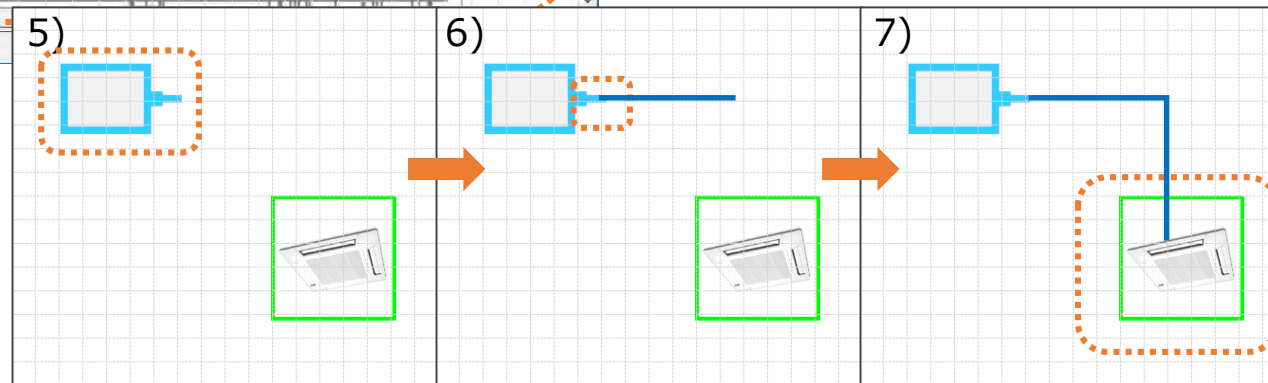


5) Left-Click on the unit

6) Left-Click on the work area

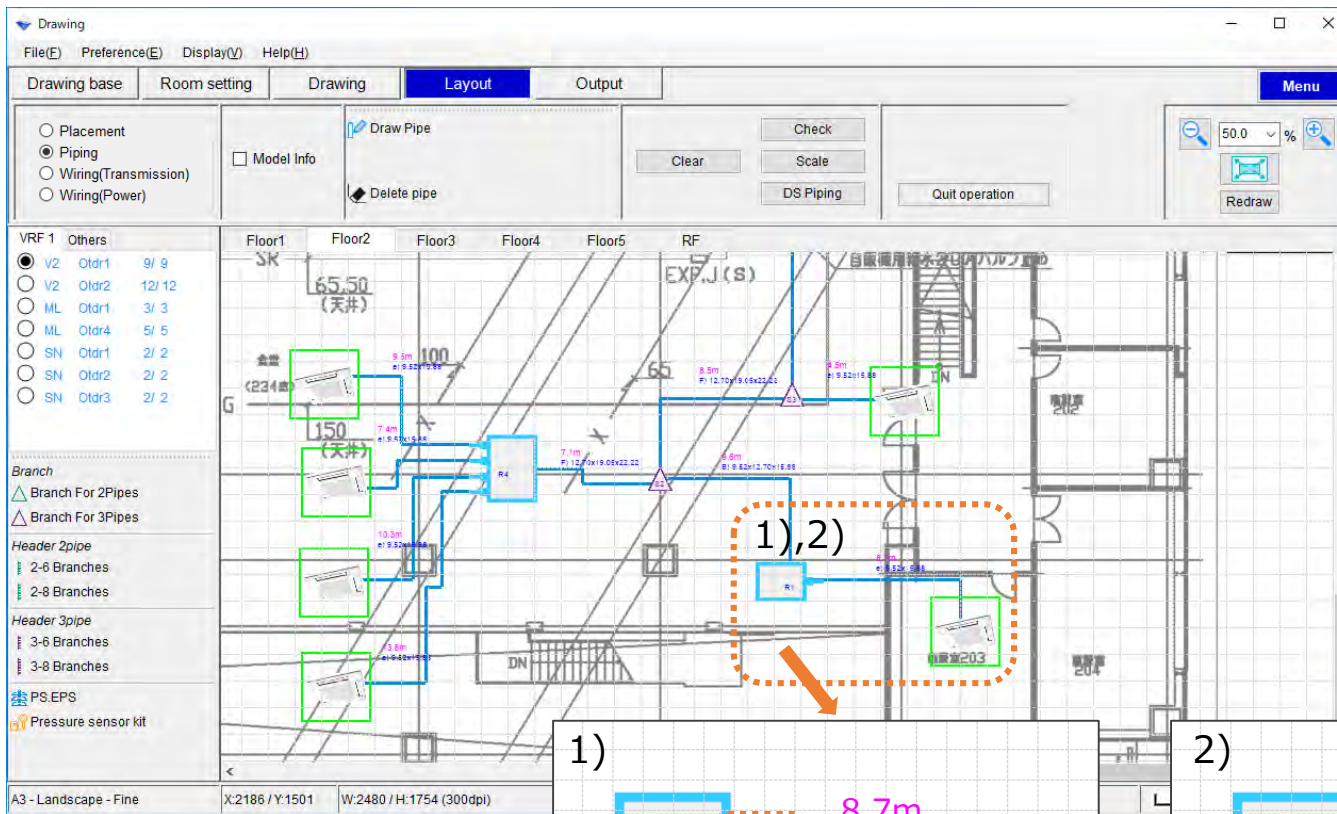
7) Double-Click on another unit

The case of 2-6 Multi split, when drawing a pipe, wiring (transmission) line is drawn automatically

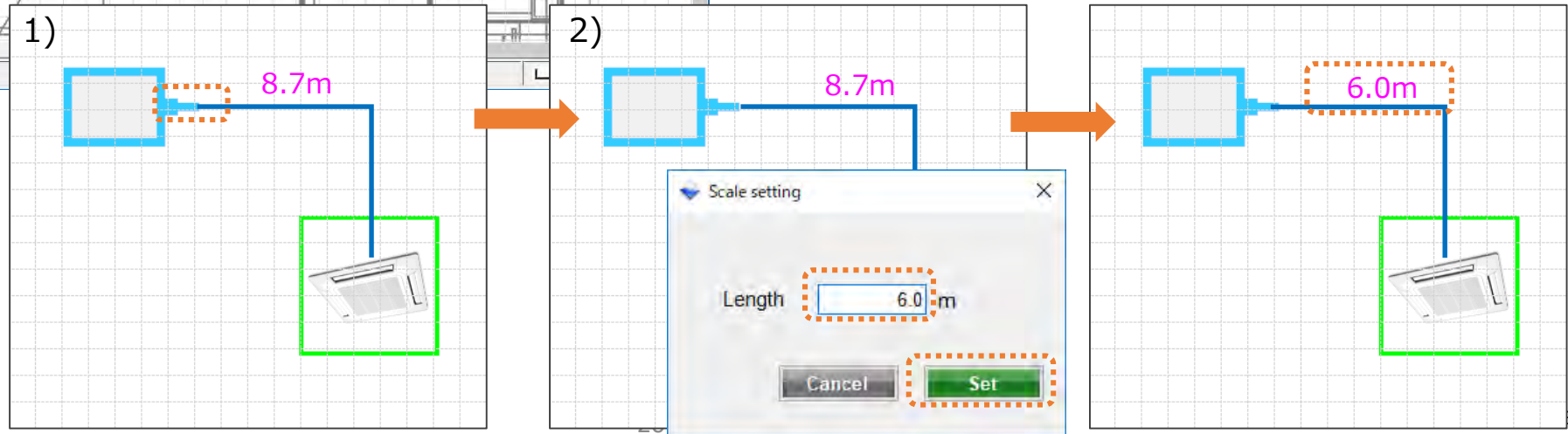


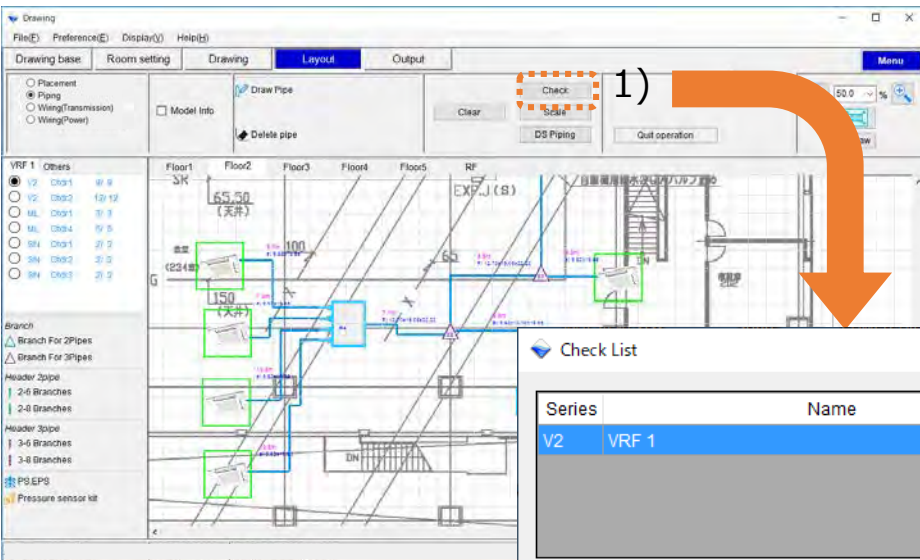
Change Pipe length

How to change pipe length



- 1) Double-Click on start point or end point of pipe line
- 2) Input length, press Set





1)

Check List

Series	Name	Wiring(T)	Report
V2	VRF 1	✓	Report

Series	Name	Piping	Wiring(T)	Wiring(P)	Report
V2	Otdr1	✓	Error. 1	✓	Report
V2	Otdr2	✓	✓	✓	Report
ML	Otdr1	✓	✓	Error. 1	Report
ML	Otdr2	✓	✓	✓	Report
SN	Otdr1	-	-	-	-
SN	Otdr2	-	-	-	-

Close

2)

1) Press Check

2) Press Report

Each check items and results are shown.
Check items are depending on the type of VRF System

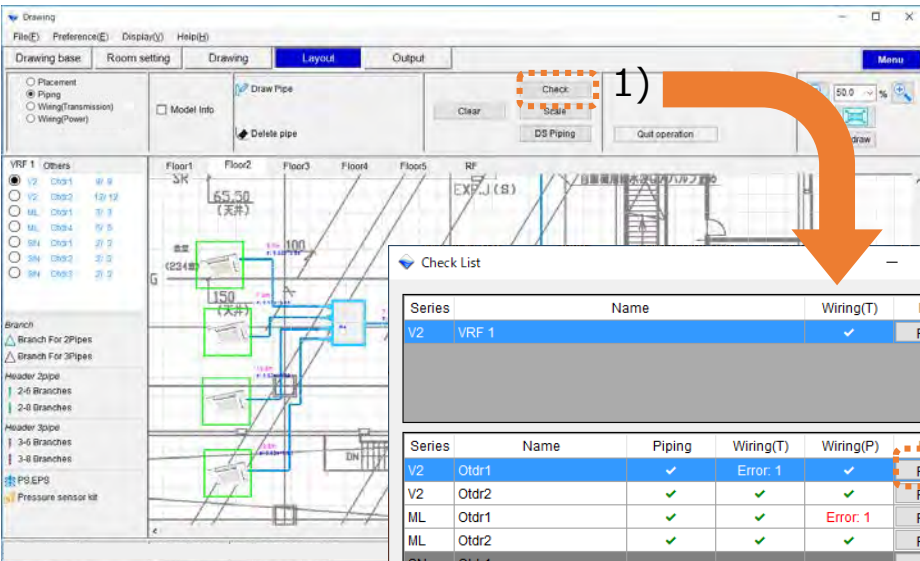
Check Report

V2 VRF 1

Wiring(Transmission)

Check item	Max(m)	Calculated	Result
Draw transmission line			
The number of units in VRF network system	-	8 / 14	✓
The number of Signal Amplifier	0	0	✓
The number of units in segment	64	12	✓
Length			
Total wiring length of transmission	3600	54.3	✓
Maximum wiring length between units	400(398)	22.1	✓
Total wiring length of transmission [segment 0]	500(498)	54.3	✓

Close



Series	Name	Wiring(T)	Report
V2	VRF 1	✓	Report

Series	Name	Piping	Wiring(T)	Wiring(P)	Report
V2	Otdr1	✓	Error: 1	✓	Report
V2	Otdr2	✓	✓	✓	Report
ML	Otdr1	✓	✓	Error: 1	Report
ML	Otdr2	✓	✓	✓	Report
SN	Otdr1	-	-	-	-
SN	Otdr2	-	-	-	-

2)

1) Press Check

2) Press Report

Each check items and results are shown.
Check items are depending on the type of refrigerant.

An error message is displayed for each refrigerant system.

Check item	Max(m)	Calculated
Draw pipe line		
Connect correctly	-	-
Input all pipe length	-	-
Capacity	-	-
Length		
Between master outdoor unit and the farthest indoor unit	165	-
Between the first separation tube and the farthest indoor unit (The farthest indoor unit to the first separation tube)	90	-
	60	-
Total pipe length	1000	-
Between outdoor unit and outdoor unit branch kit	3	-
Between the farthest outdoor unit to the first outdoor unit branch kit	12	-
Between EEV UNIT and Heat exchanger	5	-
Between Separation tube and EEV UNIT	2	-
Total from EEV UNIT to branch and branch to heat exchanger	5	-
Height		

Connect correctly error
Wiring(Transmission)

Message
Error Floor:1 Outdoor:V2-Otdr1 Kind:Indoor Name:Indr1
Error Floor:1 Outdoor:V2-Otdr1 Kind:Indoor Name:Indr2
Error Floor:1 Outdoor:V2-Otdr1 Kind:Indoor Name:Indr3

Check item	Max(m)
Draw transmission line	
Connect correctly	-

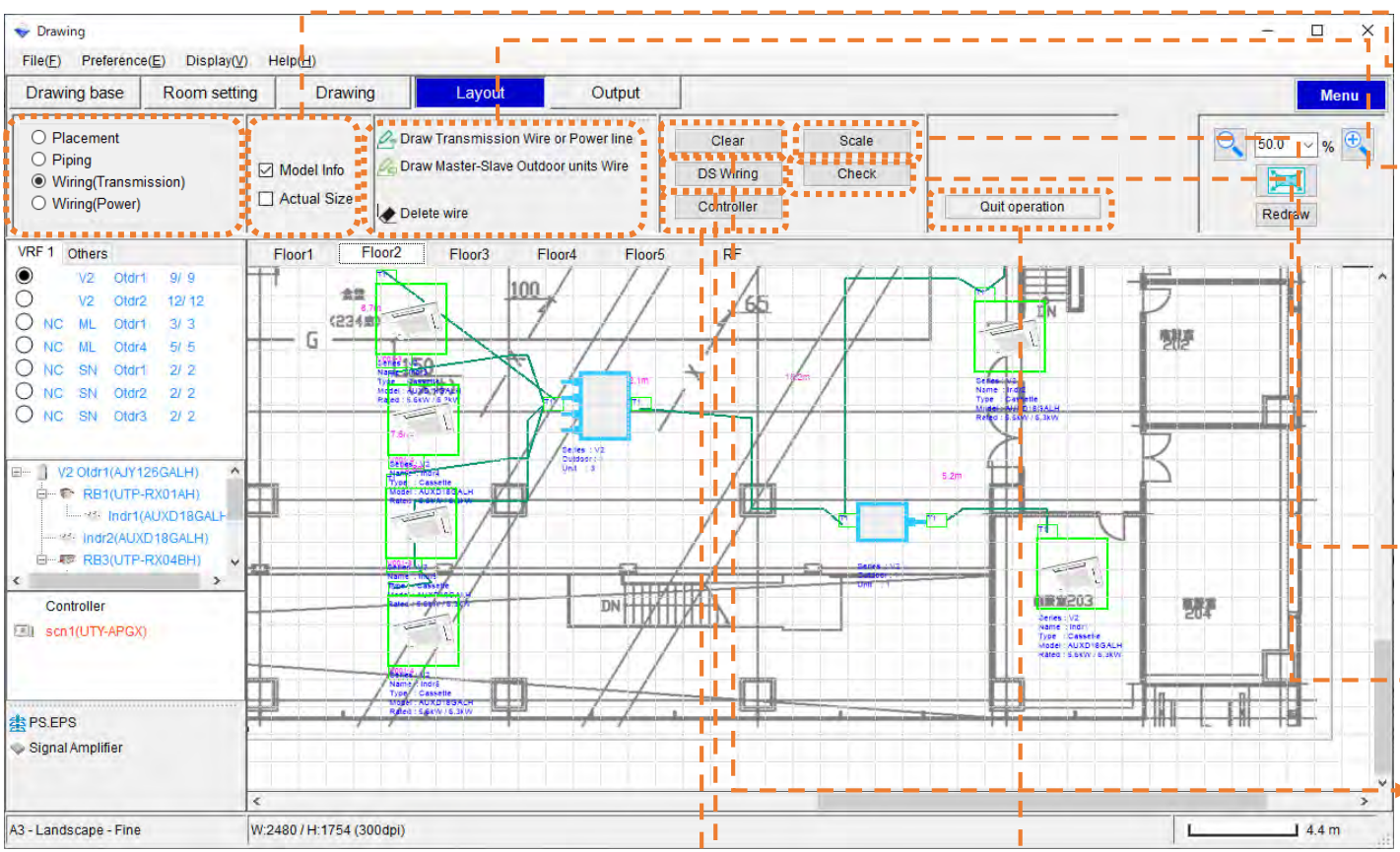
Connect correctly error
Wiring(Transmission)

Message
Error Floor:1 Outdoor:V2-Otdr1 Kind:Indoor Name:Indr1
Error Floor:1 Outdoor:V2-Otdr1 Kind:Indoor Name:Indr2
Error Floor:1 Outdoor:V2-Otdr1 Kind:Indoor Name:Indr3

Check item	Max(m)	Calculated	Result
Draw power line			
Connect correctly	-	-	✓

Connect correctly error
Wiring(Transmission)

Message
Error Floor:1 Outdoor:V2-Otdr1 Kind:Indoor Name:Indr1
Error Floor:1 Outdoor:V2-Otdr1 Kind:Indoor Name:Indr2
Error Floor:1 Outdoor:V2-Otdr1 Kind:Indoor Name:Indr3



Display setting
Model Info: Show unit's information

Wire line
Draw wire : Refer to "Draw Transmission Wire-Auto" & "Draw Transmission Wire-Manual"
Refer to "Draw Master-Slave Outdoor units Wire-Auto" & "Draw Master-Slave Outdoor units Wire-Manual"
Delete wire : Delete the selected pipe

Scale
Refer to "Scale setting"

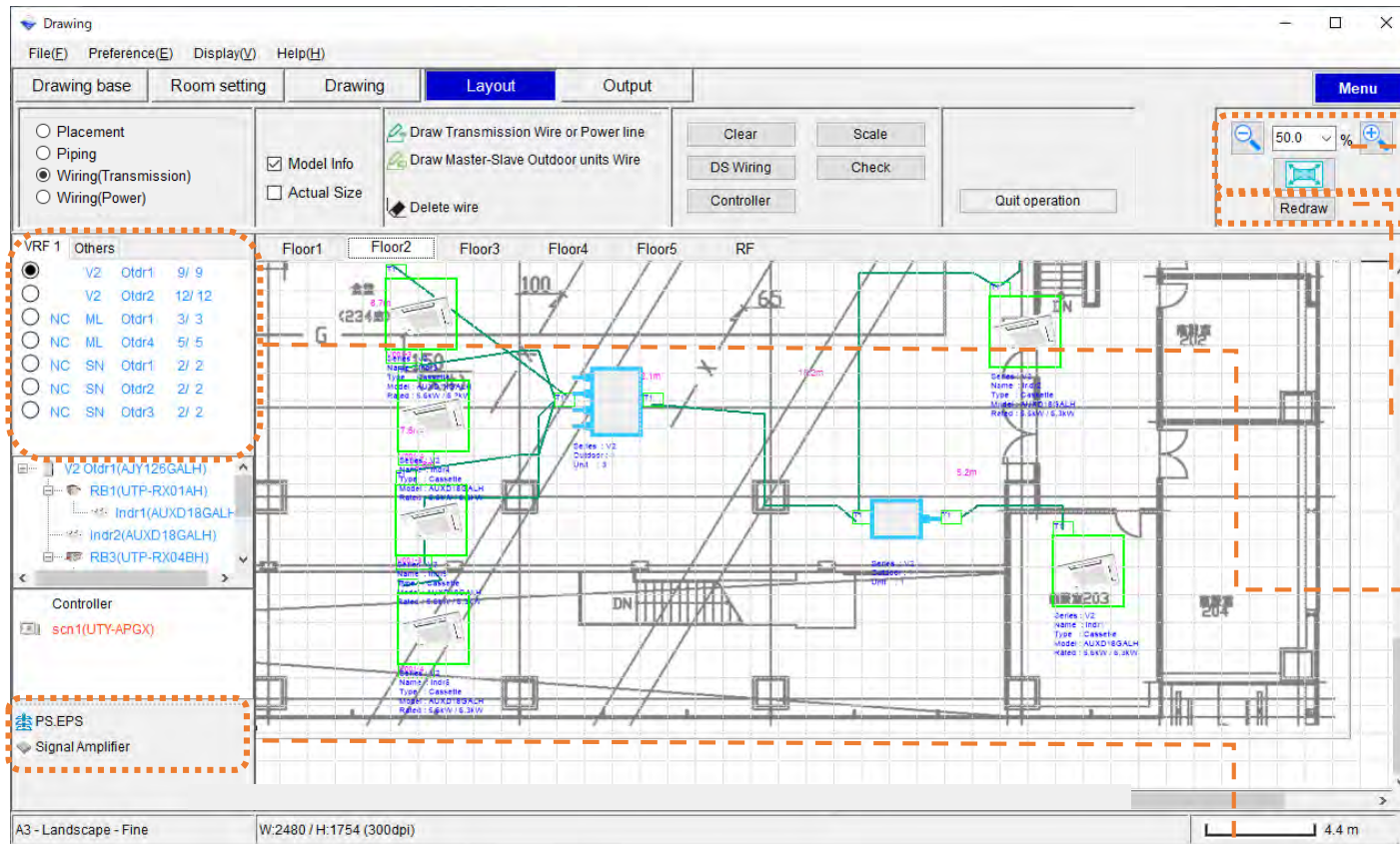
Check
Refer to "Check"

Clear
Refer to "Clear"

DS Wiring
Open "DS Wiring display"

Controller
Open "Control Design display"

Quit operation
Quit current operation is terminated.



Zoom to

- : Zoom up
- : Zoom down
- : Select zoom
- : Full picture display

Redraw

Redraw: Draw the displayed picture again

Refrigerant list

Refer to "Transmission wire-Auto", "Draw Transmission wire- Manual"

Tool box

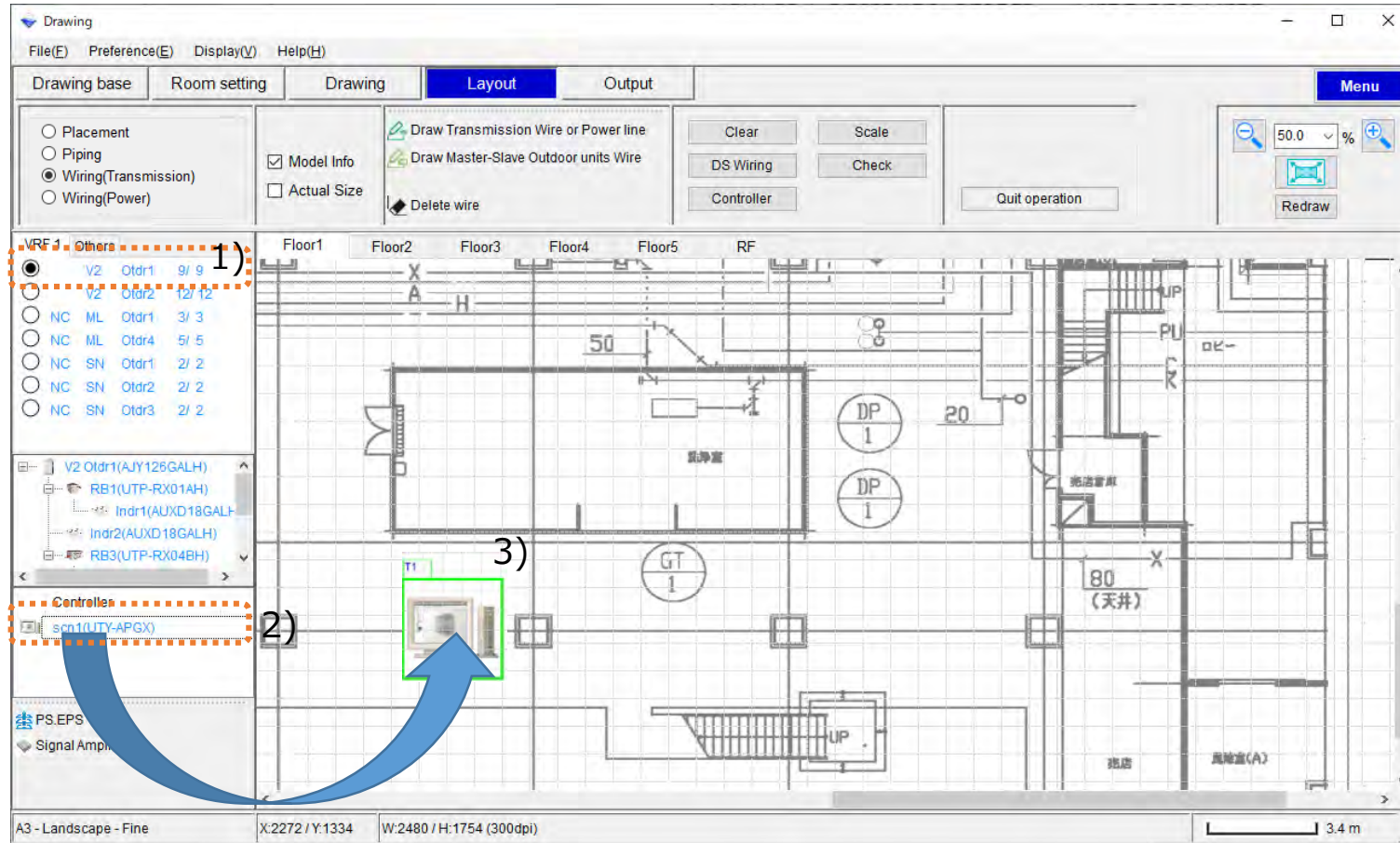
PS, EPS: Refer to "PS, EPS"

*PS : Pipe Space

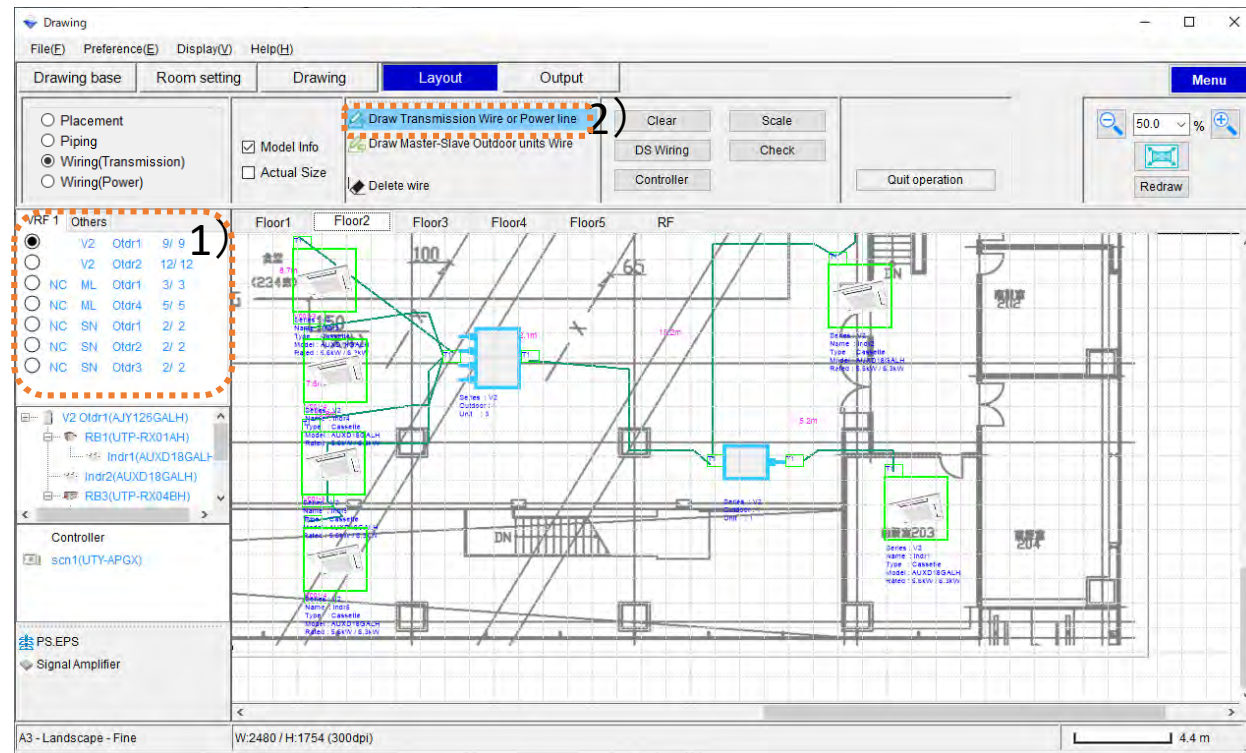
EPS : Electric Pipe Space

Signal Amplifier: Refer to "Signal Amplifier"

How to Controller object – Drag and Drop




- 1) Refrigerant list
Refrigerants selected by Design simulator is displayed
- 2) Select Controller.
- 3) Drag and drop for part placement.



1) Select Refrigerant

2) Press "Draw Tran.  Draw Transmission Wire

Not selected Line

 Draw Transmission Wire

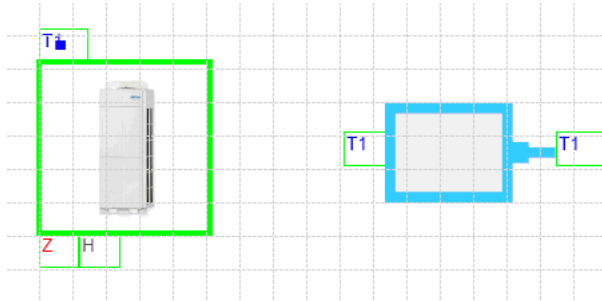
Selected Line

3) Left-Click on the unit Terminal

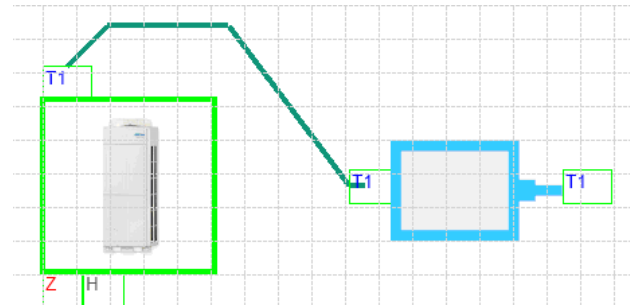
4) Left-double Click at Outdoor unit Terminal.

The case of 2-6Multi split, when drawing wirings, Piping line is drawn automatically

3)



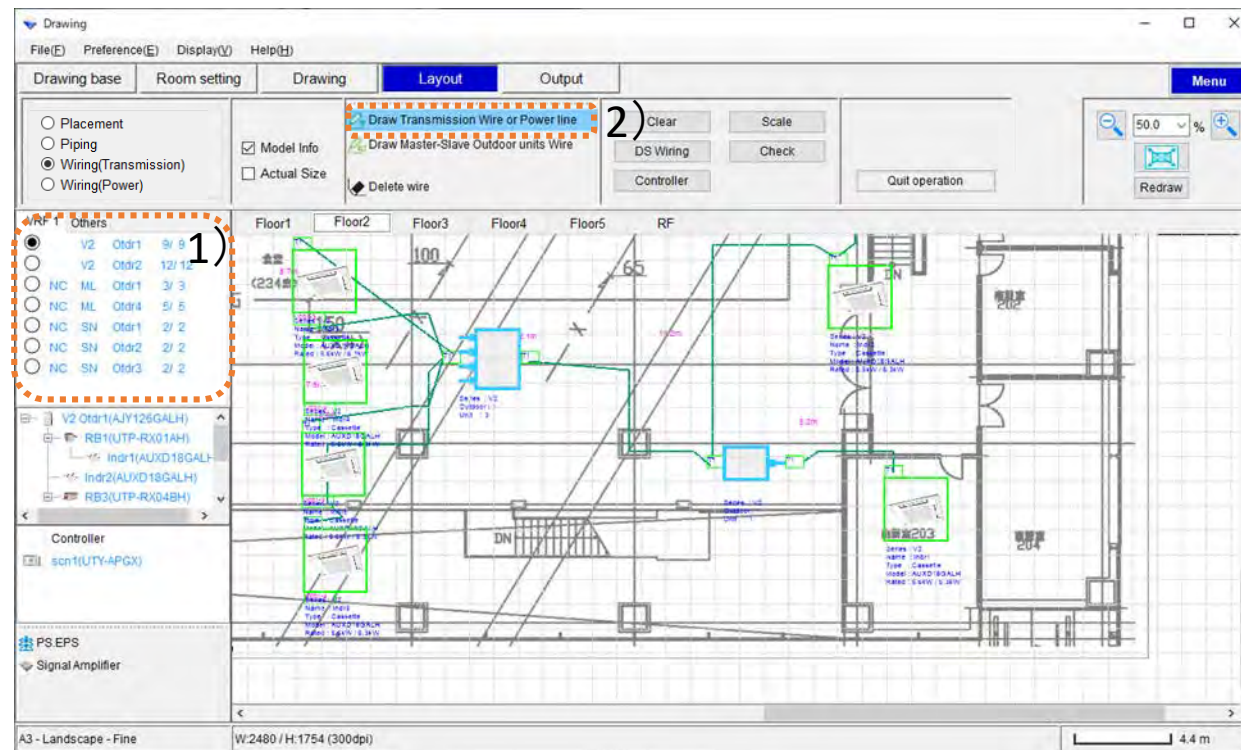
4)





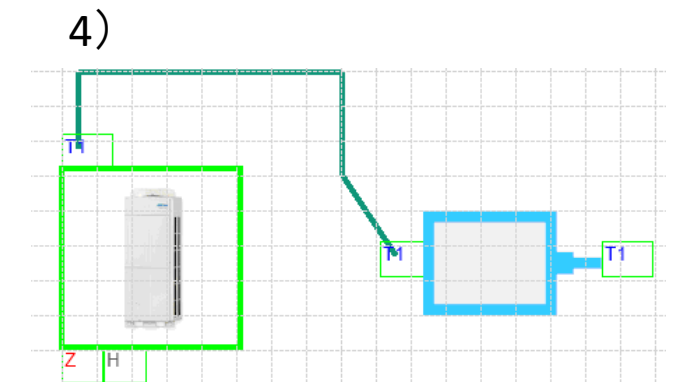
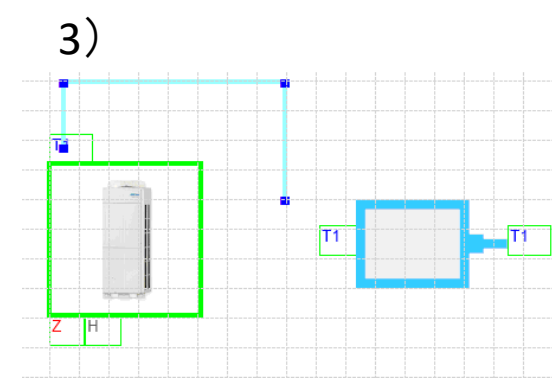
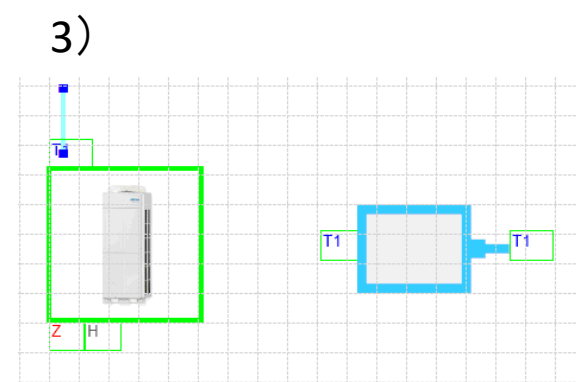
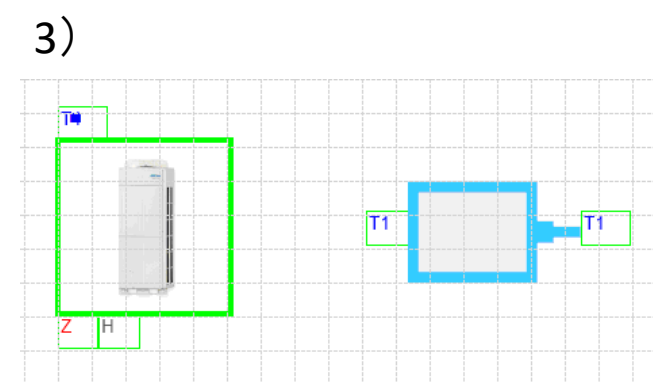
Show all unit Terminal

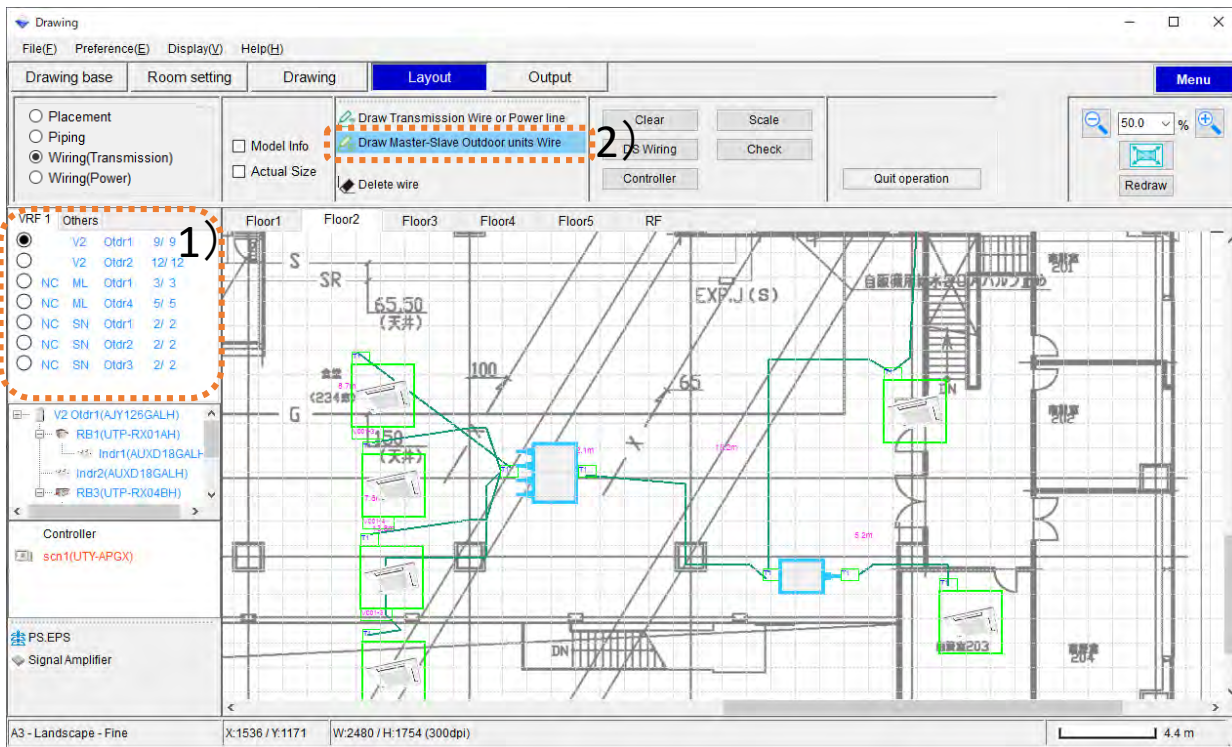
Legend	Line	explain
T	X1,X2	Transmission
T1	1,2,3	Power line and Control line
TA	A,B,SGND	Transmission BACNet(Hardware)
TP	1,2,3	Power line
K1	K1,K2,K3	Network Converter
A	1,2,3	2-6Multi Outdoor only Power line
B	1,2,3	2-6Multi Outdoor only Power line
C	1,2,3	2-6Multi Outdoor only Power line
D	1,2,3	2-6Multi Outdoor only Power line

*"Display - Explanatory notes" in tool menu shows all terminal detail





- 1) Select Refrigerant
- 2) Press "Draw Transmission wire."
 - Not selected Line  Draw Transmission Wire
 - Selected Line  Draw Transmission Wire
- 3) Left-Click at Outdoor unit Terminal
 - Left-click at second point
 - Repeat
- 4) Left-double Click at Terminal end point
 - The case of 2-6Multi split, when drawing wirings, Piping line is drawn automatically

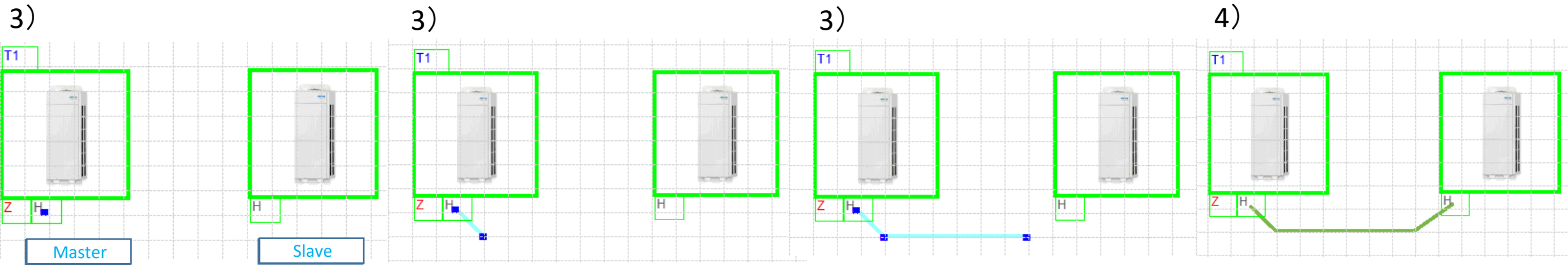




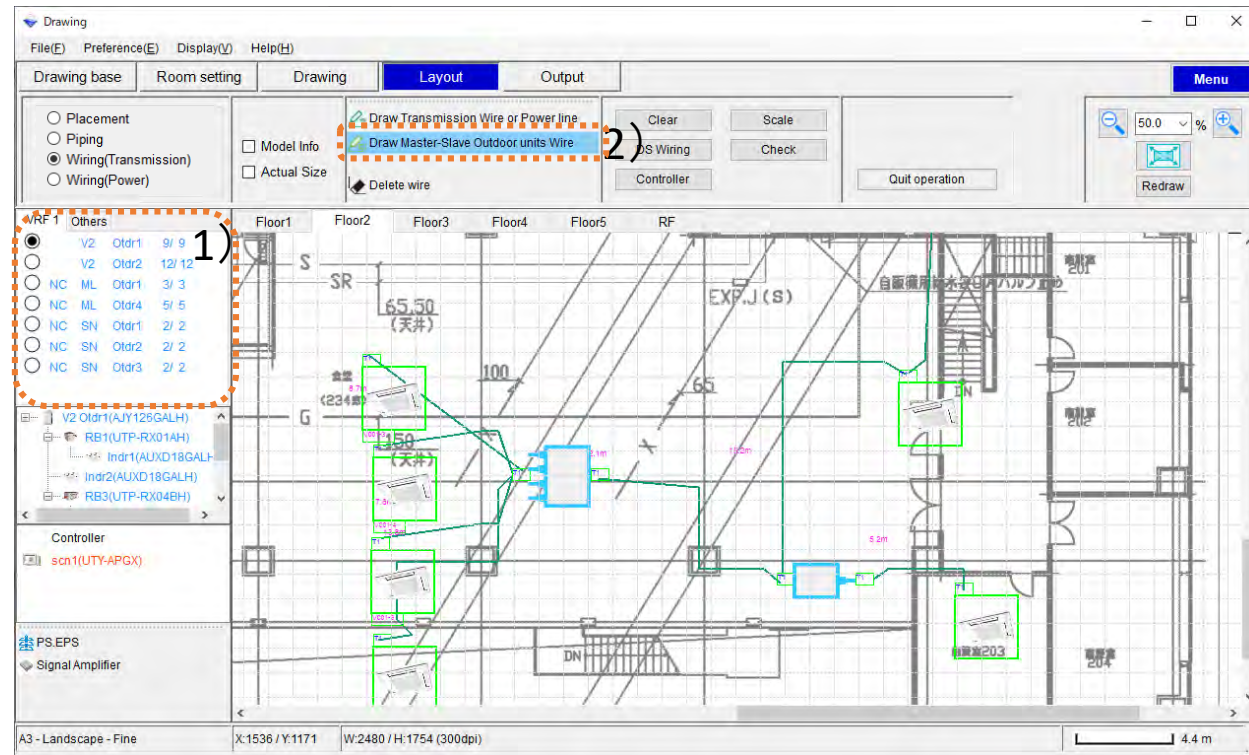
- 1) Select Refrigerant
- 2) Press "Draw Master – Slave Outdoor units Wire."

 - Not selected Line  Draw Master-Slave Outdoor units Wire
 - Selected Line  Draw Master-Slave Outdoor units Wire

- 3) Left-Click at Master Outdoor unit Terminal.
Left-click at second point
Repeat
- 4) Left-double Click at Slave Outdoor unit Terminal.



Draw Master-Slave Outdoor units Wire-Manual Drawing Design



1) Select Refrigerant

2) Press "Draw Master – Slave Outdoor units Wire."

Not selected Line

Selected Line

Repeat

3) Left-Click at Master Outdoor unit Terminal.

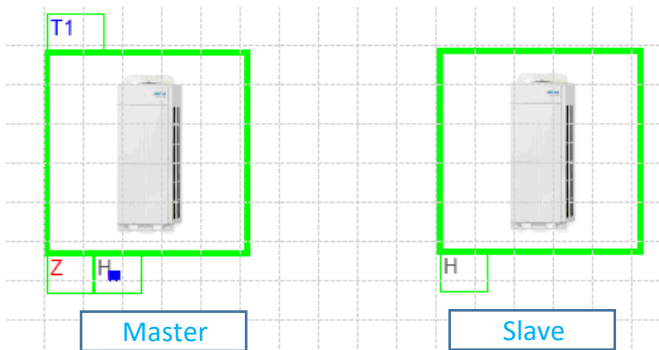
Left-click at second point

Repeat

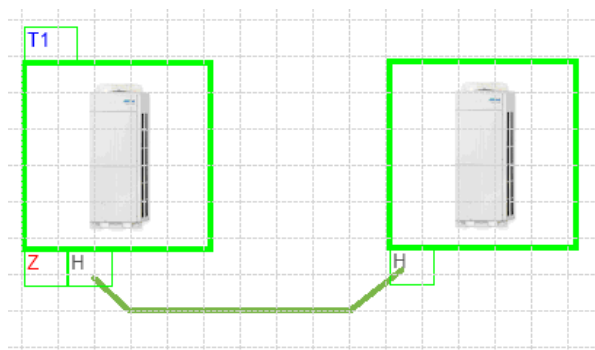
4) Left-double Click at Slave Outdoor unit Terminal.

It is possible to connect different refrigerant systems in the same way

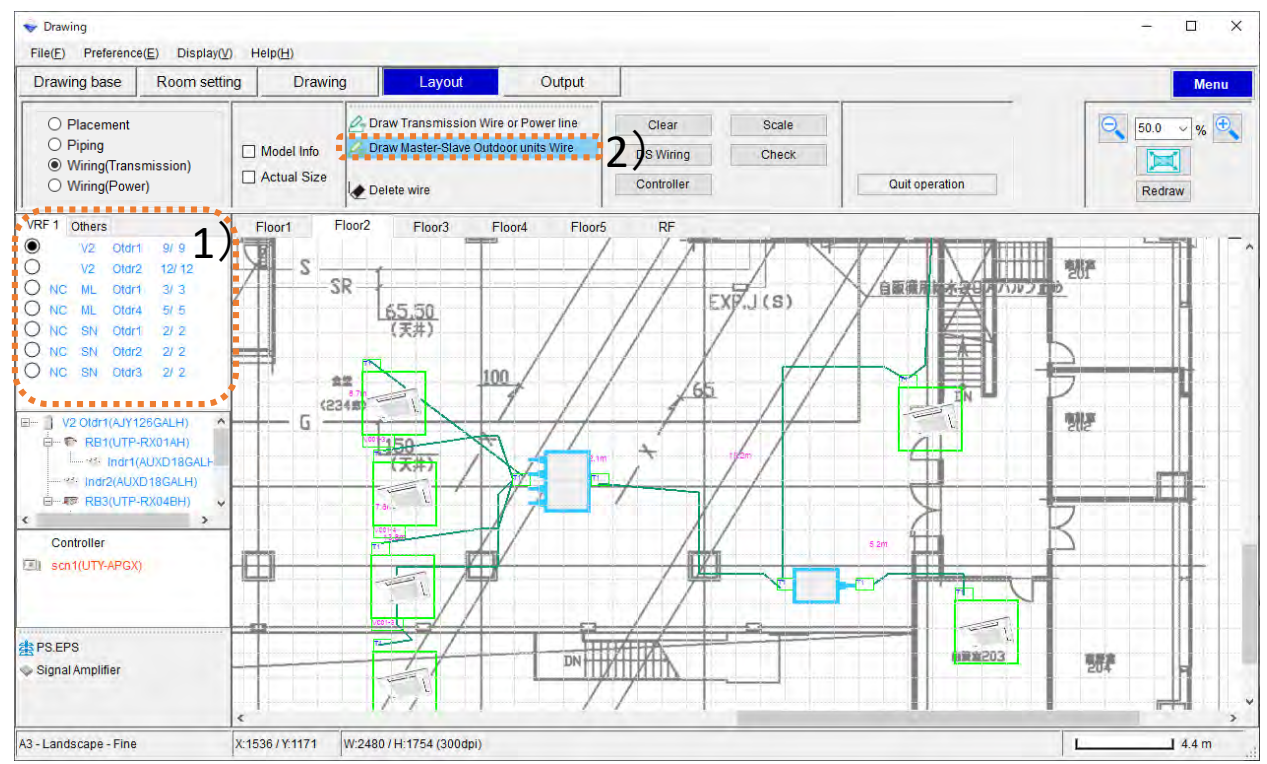
3)

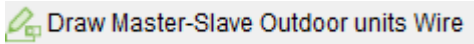
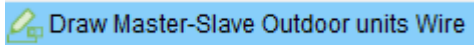


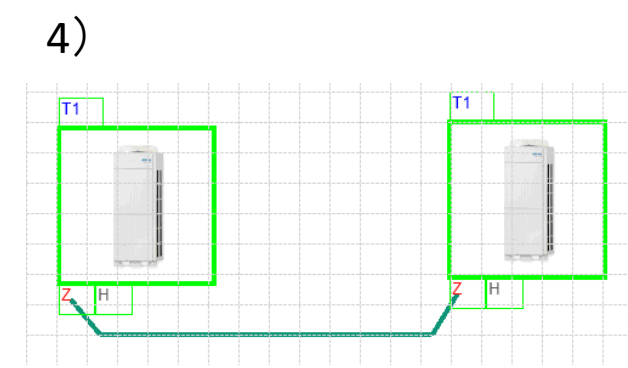
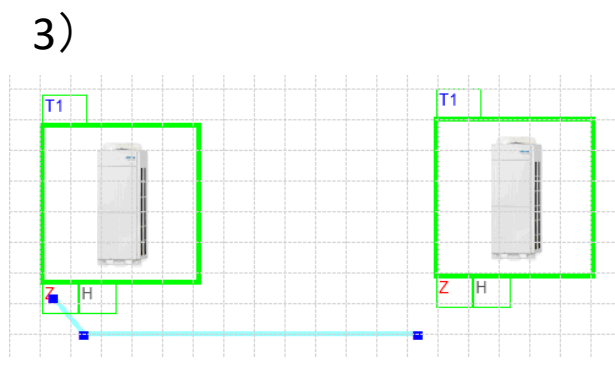
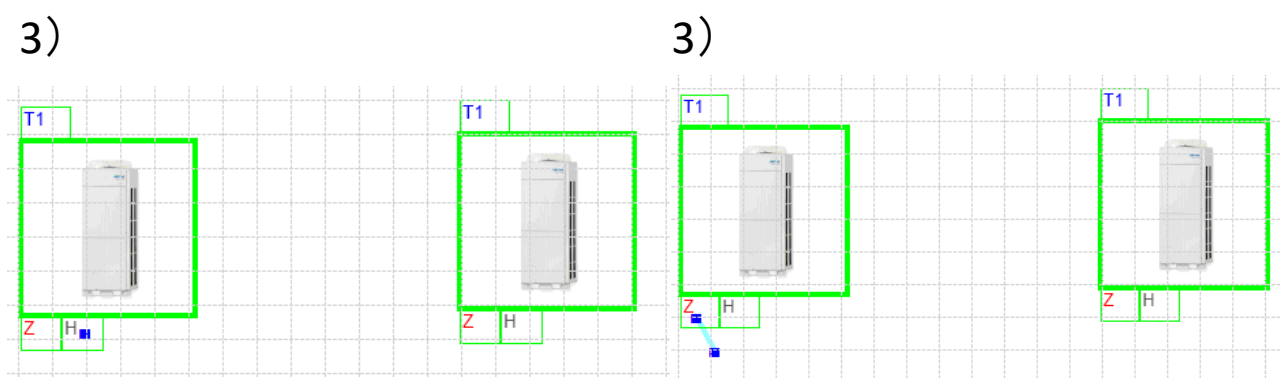
3) 4)



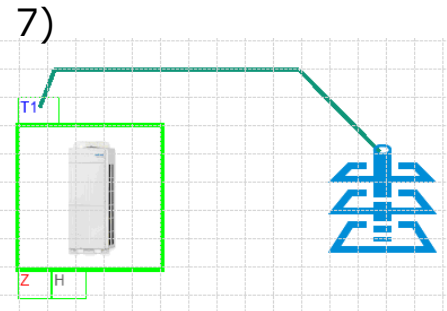
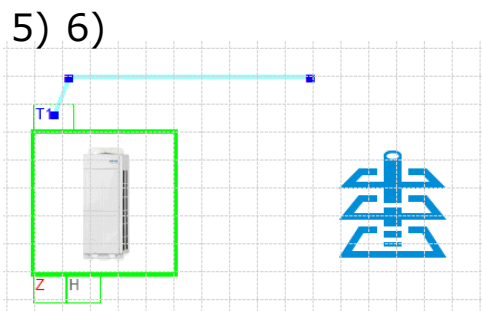
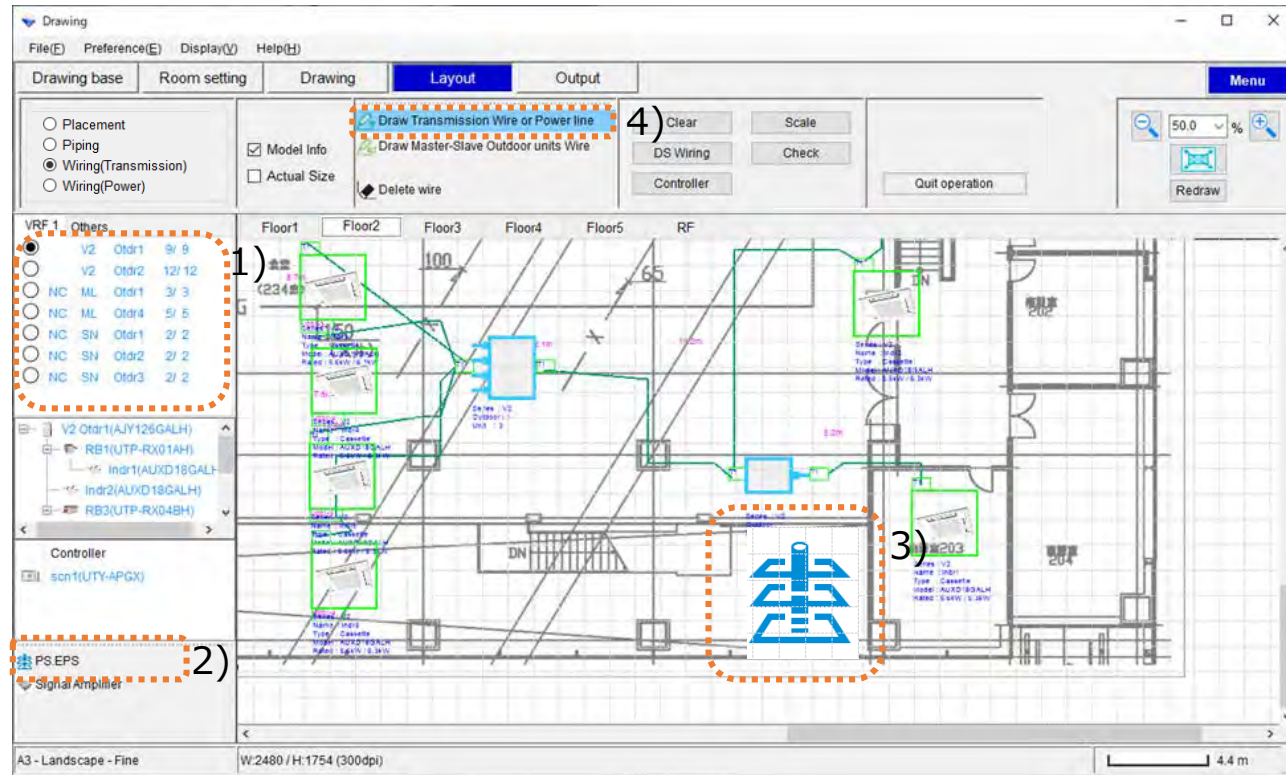
Draw different refrigerant circuit Wire-Manual Drawing Design



- 1) Select Refrigerant
- 2) Press "Draw Master – Slave Outdoor units Wire."
 - Not selected Line 
 - Selected Line 
- 3) Left-Click at Outdoor unit Terminal.
Left-click at second point
Repeat
- 4) Left-double Click at Slave Outdoor unit Terminal.

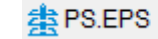


How to Wiring PS, EPS

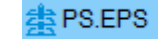


1) Select Refrigerant

2) Press PS, EPS.



Not selected PS, EPS

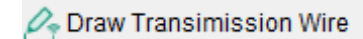


Selected Line PS, EPS

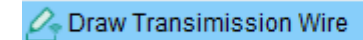
3) Left-Click on work area for part placement.

4) Press Draw Transmission Wire

Not selected Line



Selected Line



5) Left-Click on the unit

6) Left-click at second point

Repeat

7) Left-double Click at Terminal end point.

PS : Pipe Space

EPS : Electric Pipe Space

How to Wiring Signal Amplifier

1) Select Refrigerant

2) Press Signal Amplifier.

Not selected Signal Amplifier 

Selected Signal Amplifier 

3) Left-Click on work area for part placement.

4) Press Draw Transmission Wire

Not selected Line 

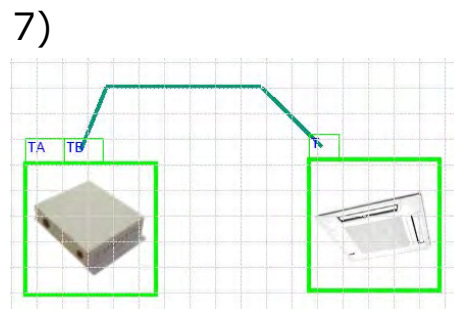
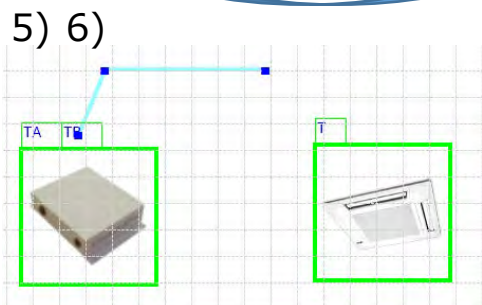
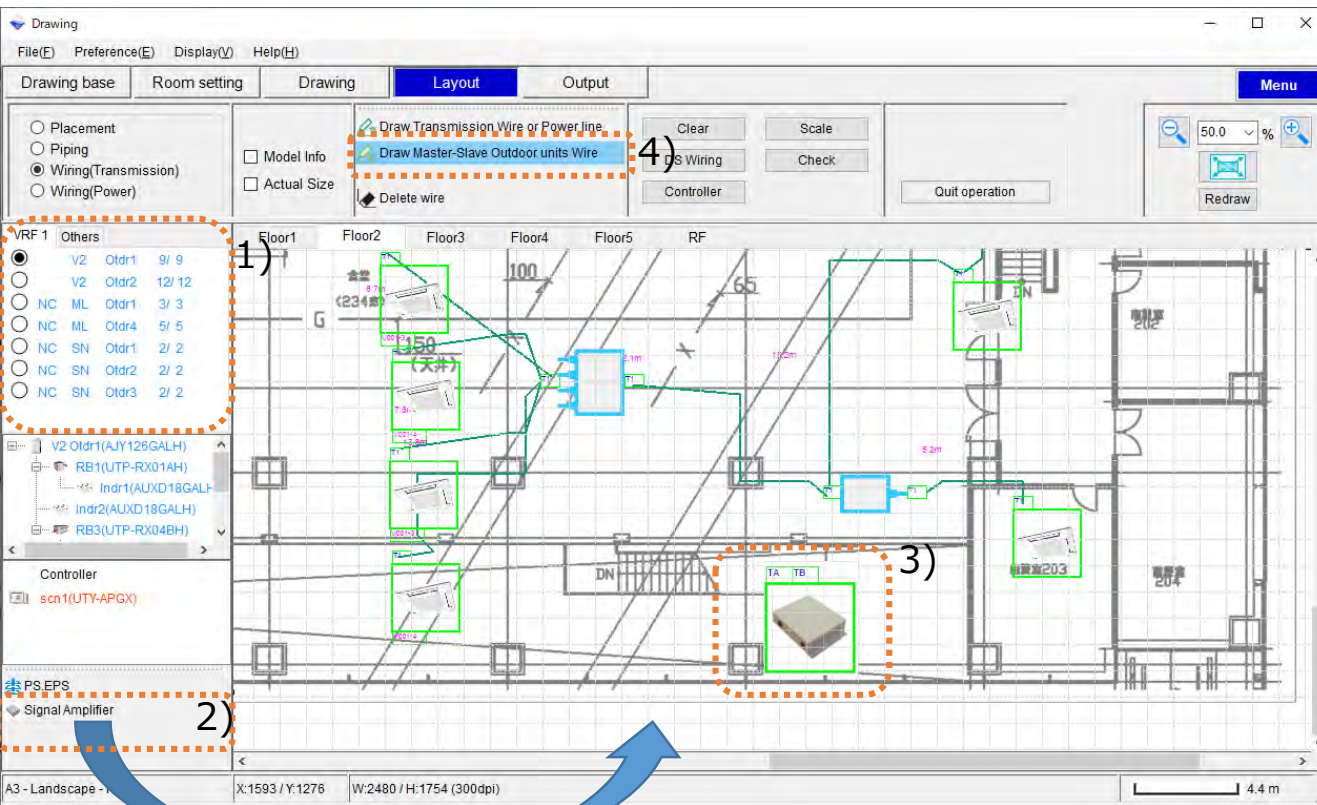
Selected Line 

5) Left-Click on the unit

6) Left-click at second point

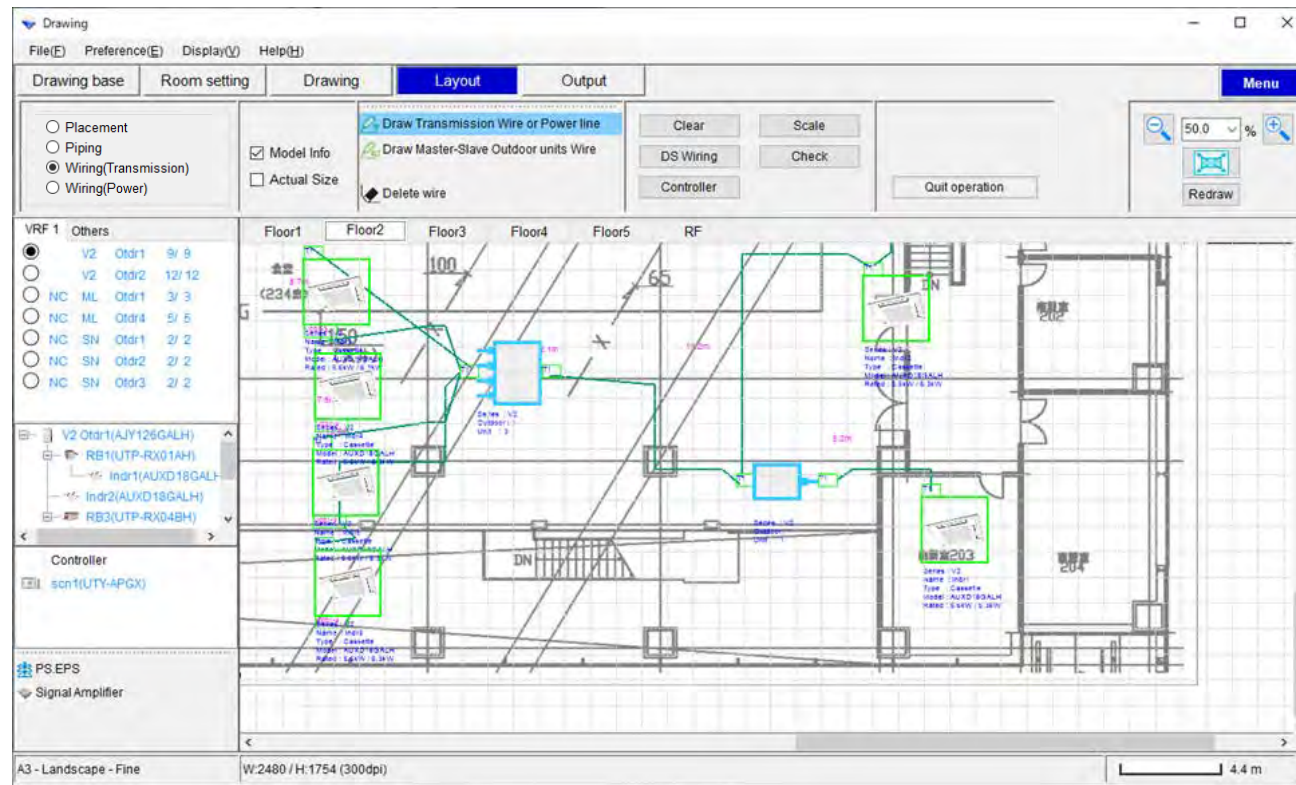
Repeat

7) Left-double Click at Terminal end point.



Change wire length

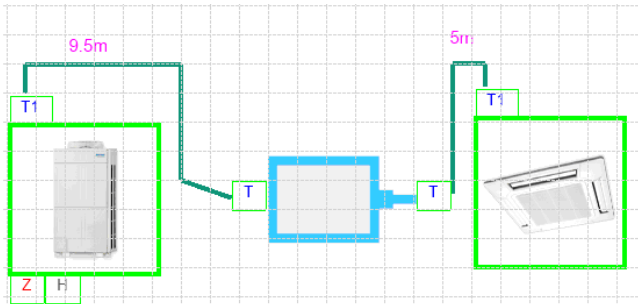
How to change wire length



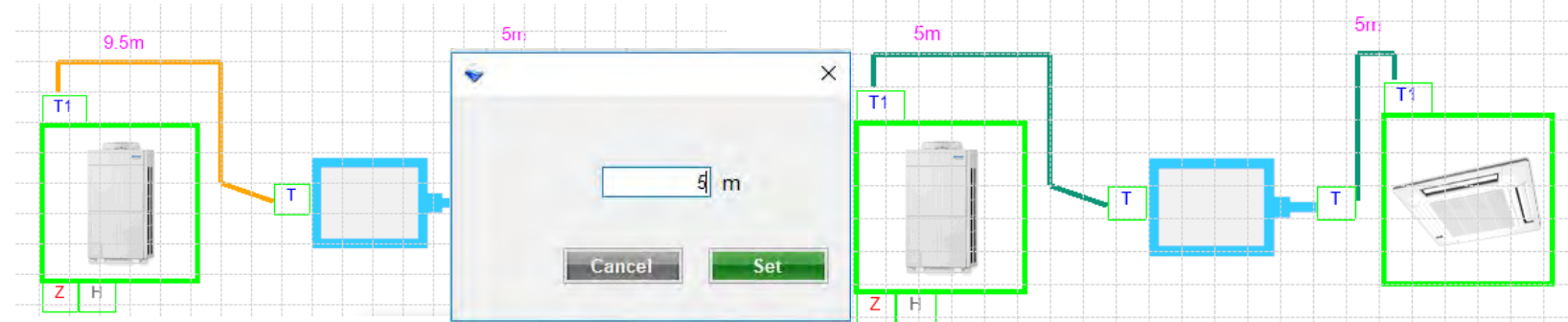
1) Double-Click on start point or end point of wire line

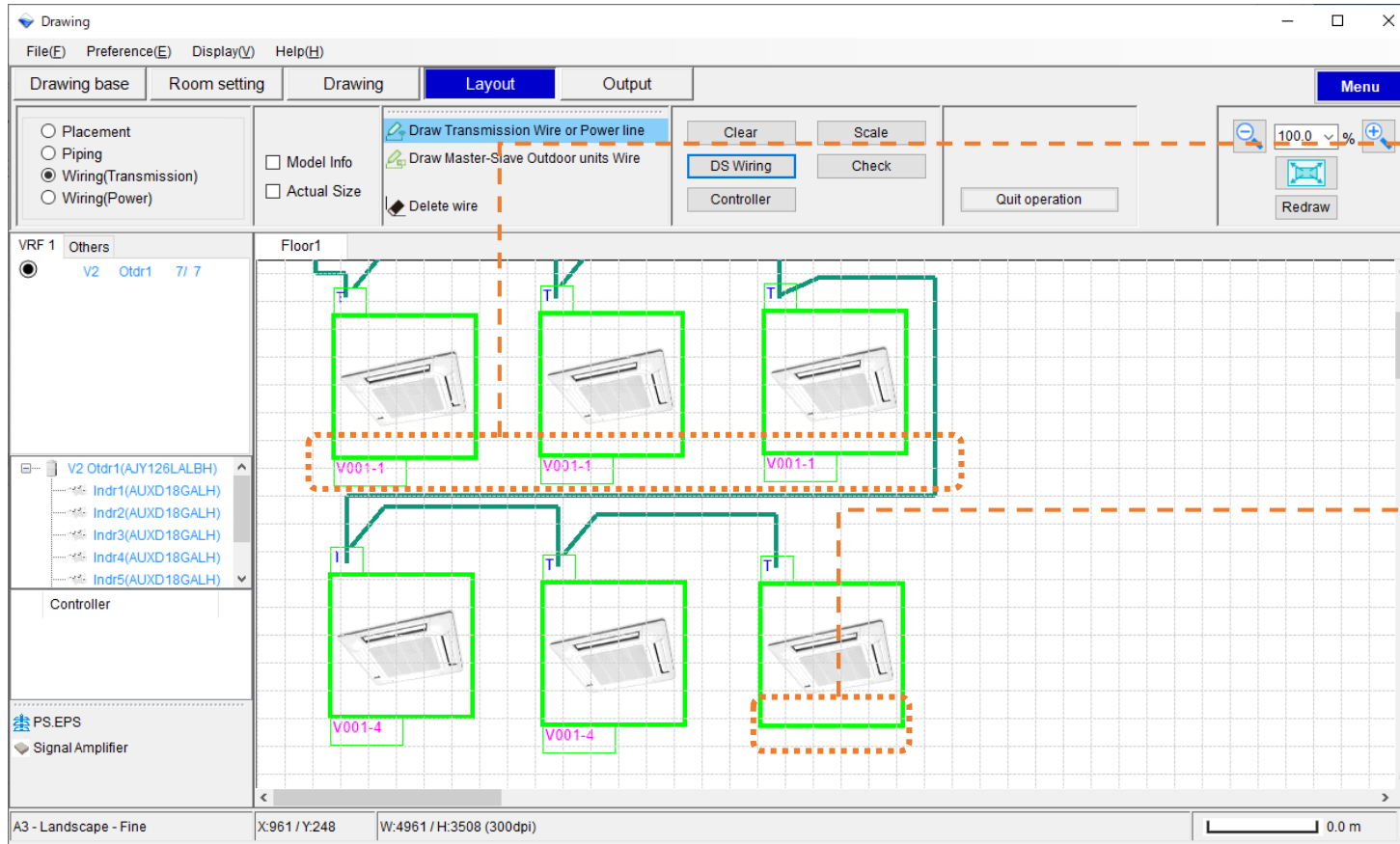
2) Input length, press Set

1)



2)



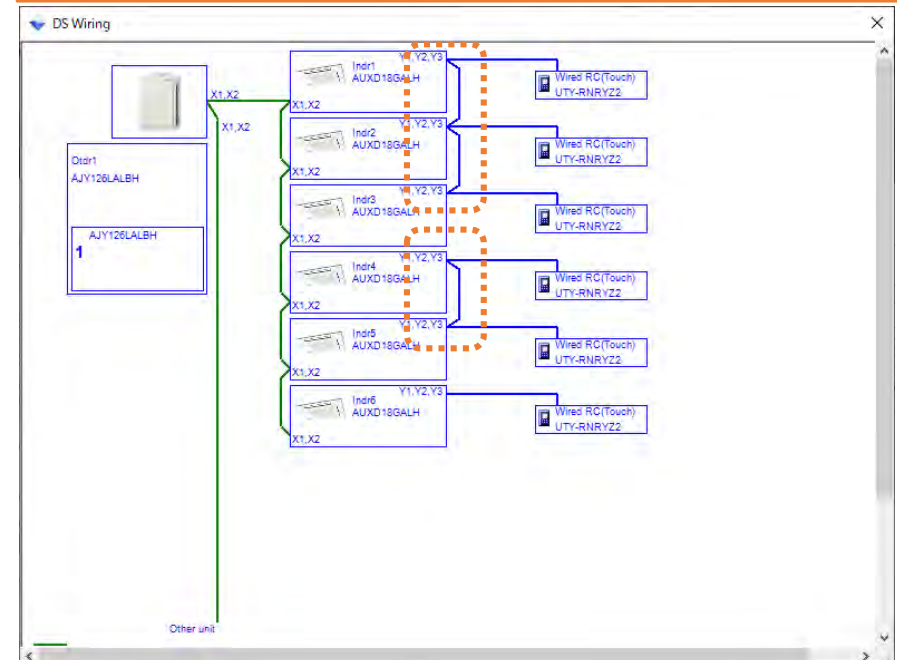


When creating RC Group , terminals are displayed under the indoor unit.

RC Group Terminal name:
Series + Outdoor Index + RC Gr. No

Series :
V:VRF, F:8RoomMulti, M:2-6Multi split, S:Single split
Outdoor Index: 1-100
RC Gr. No : 1-64

Single RC terminal is not displayed.



Display setting
Model Info: Show unit's information
Actual Size: Display in actual size (Require Scale setting)

Power board setting: Refer to "Set Power Board" & "Set Breaker"
Refer to "Placement" & "Set power line" & "Setting view"

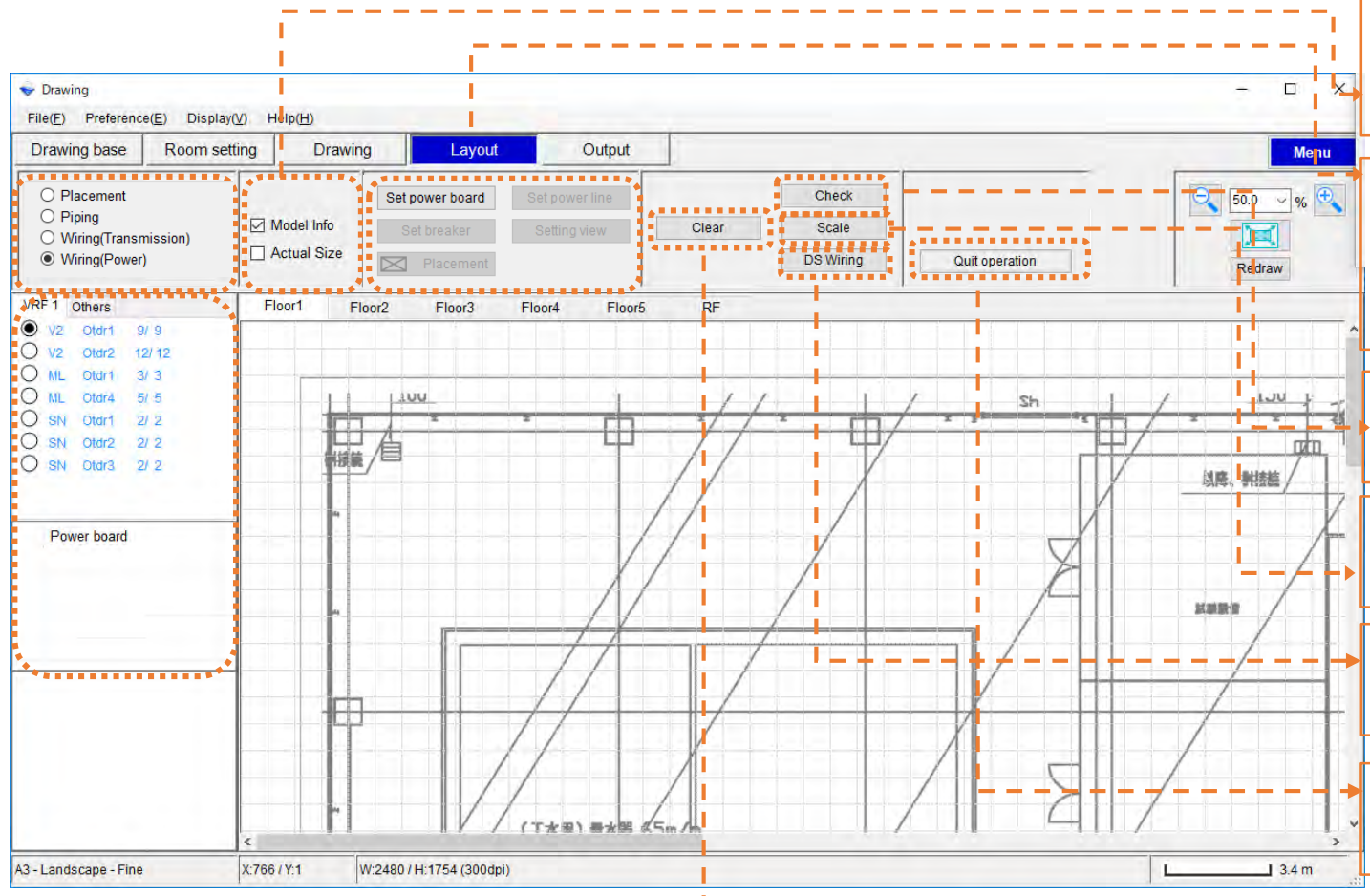
Check
Refer to "Check"

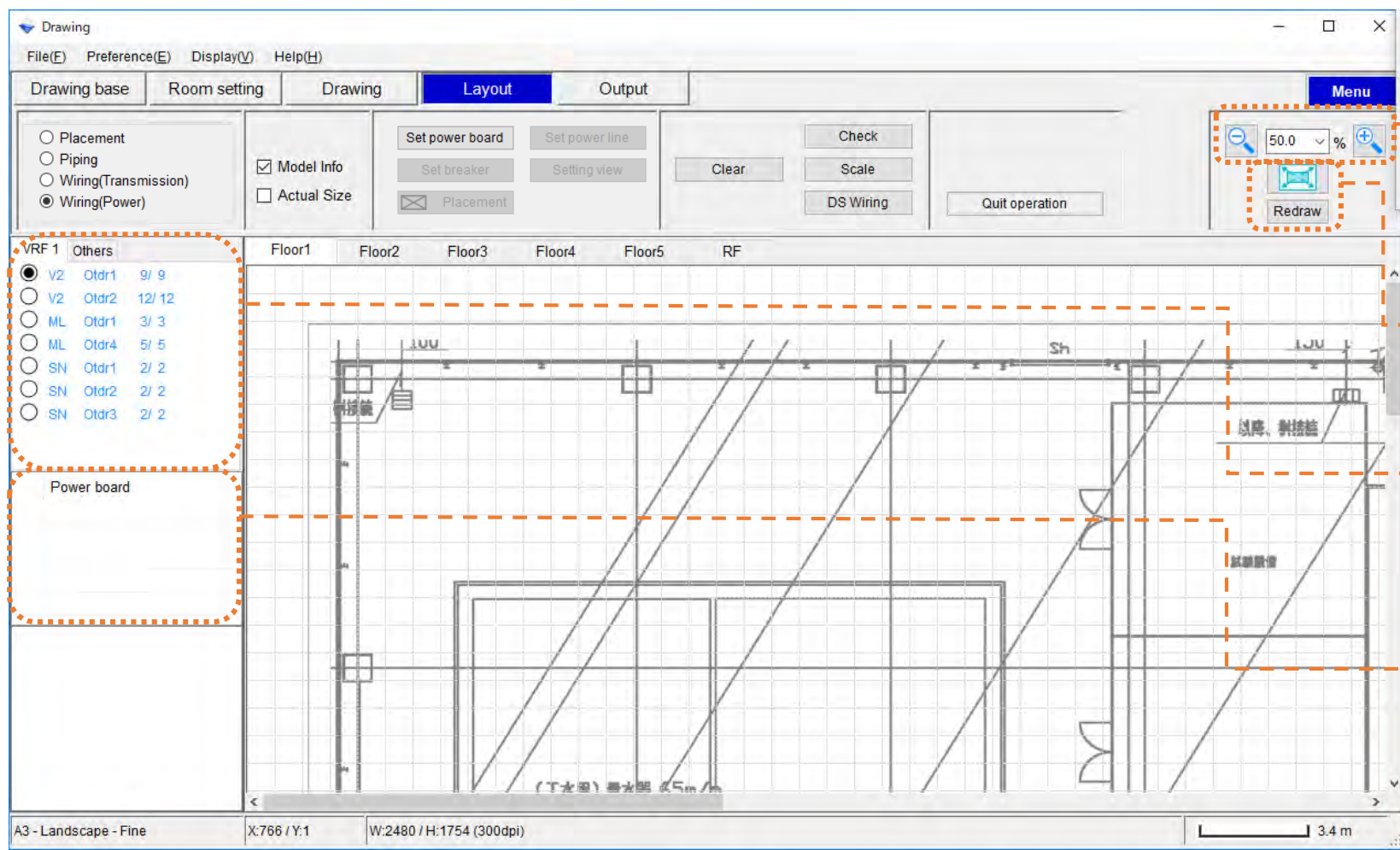
Scale
Refer to "Scale setting"

DS Wiring
Open "DS Wiring display"

Quit operation
Quit current operation is terminated.

Clear
Refer to "Clear"





Zoom to

- : Zoom up
- : Zoom down
- : Select zoom
- : Full picture display

Redraw
Redraw: Draw the displayed picture again

Refrigerant list
Selecting refrigerant

Power board
Done : "✓" Made Power board
" " Not made Power board

How to Controller object – Drag and Drop

- 1) Press Set power board
- 2) Press Add power board
- 3) Press Remove power board
- 4) Input power board information
- 5) Press set

The screenshot shows a software interface for setting power boards. The main window has a menu bar (File, Preference, Display, Help) and a toolbar with buttons for 'Set power board', 'Set breaker', 'Setting view', 'Check', 'Scale', 'Clear', 'DS Wiring', and 'Quit operation'. The 'Set power board' button is highlighted with a red dashed box and labeled '1)'. Below the toolbar is a drawing area with a grid and several power board icons. A dialog box titled 'Set power board' is open, showing a table with columns 'Name' and 'Comment'. The table contains two rows: 'Powerboard1' and 'Powerboard2'. The 'Set' button at the bottom right of the dialog is highlighted with a red dashed box and labeled '5)'. Other buttons in the dialog, 'Add power board' and 'Remove power board', are also highlighted with red dashed boxes and labeled '2)' and '3)' respectively. The 'Name' field in the table is highlighted with a red dashed box and labeled '4)'.

Name	Comment
Powerboard1	
Powerboard2	

How to Controller object – Drag and Drop

- 1) Press Set breaker
- 2) Select Power board
- 3) Press Add breaker
- 4) Press Remove breaker
- 5) Input power board information
- 6) Press set

The screenshot shows the 'Set breaker' dialog box with the following components:

- A dropdown menu showing 'Powerboard1' (labeled 2).
- 'Add breaker' button (labeled 3).
- 'Remove breaker' button (labeled 4).
- A table with the following data (labeled 5):

Name	Breaker(A)	Limit total of MCA(A)
Breaker1	50	45
Breaker2	50	40

- 'Cancel' button.
- 'Set' button (labeled 6).

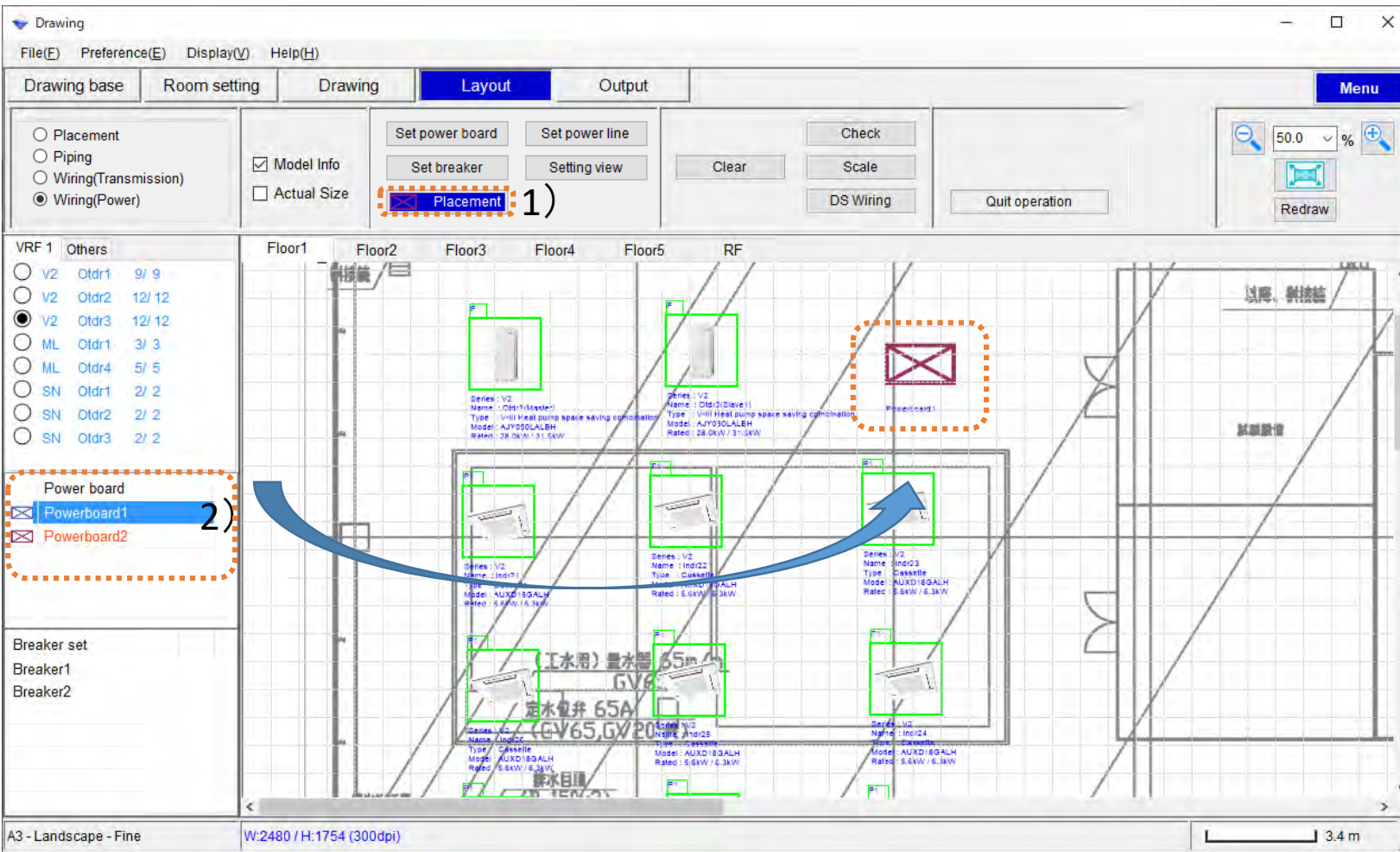
The background drawing shows a floor plan with various electrical components and their specifications. The 'Set breaker' dialog box is overlaid on the drawing, and the 'Set' button is highlighted with a red dashed box.

1) Press "Placement."

2) Select Power board

Drag & Drop on work area

Unplaced is orange, and already arranged is light blue

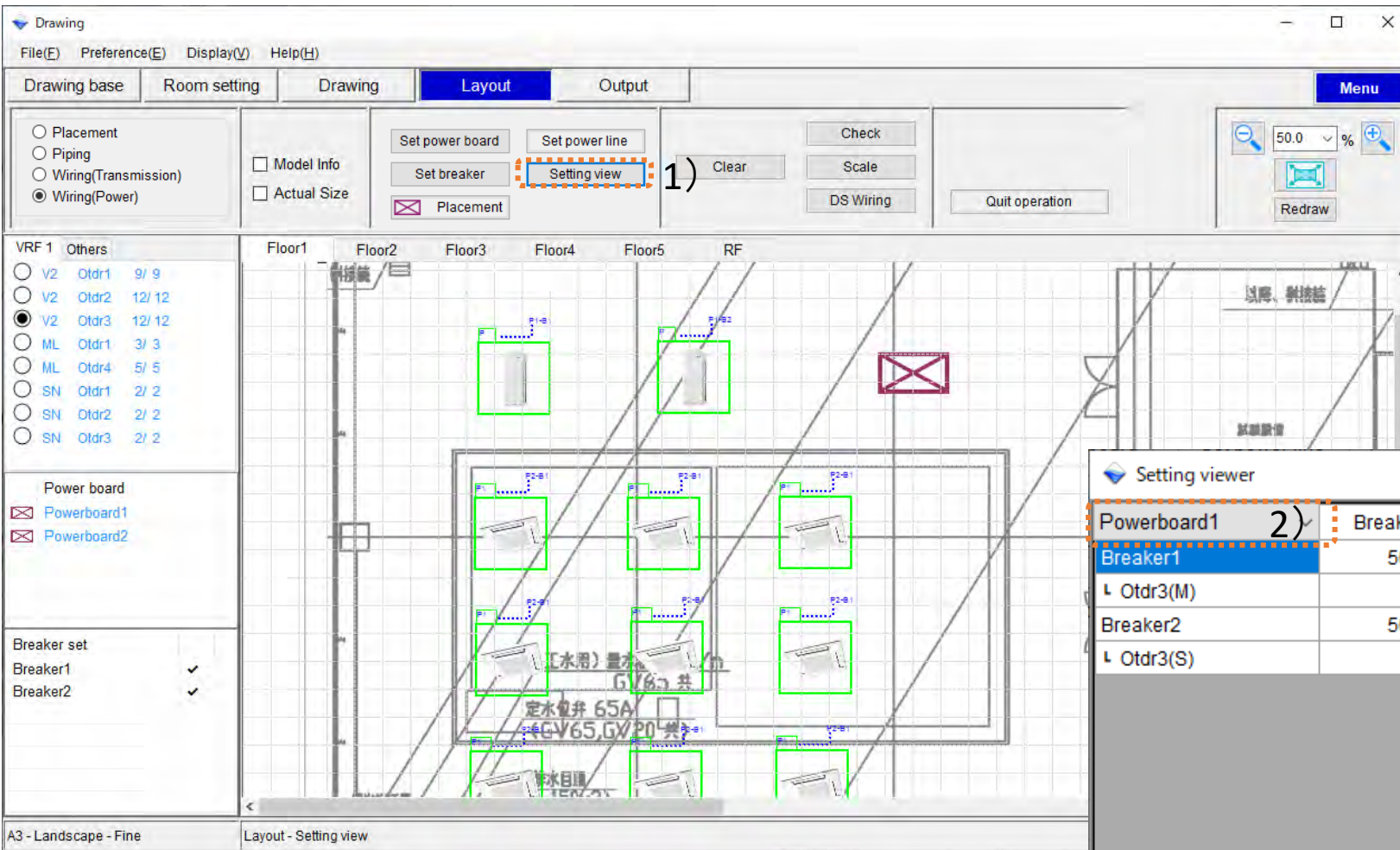


- 1) Press "Set Power board."
- 2) Select Breaker
- 3) Select unite
- 4) Input Breaker information
- 5) Press set

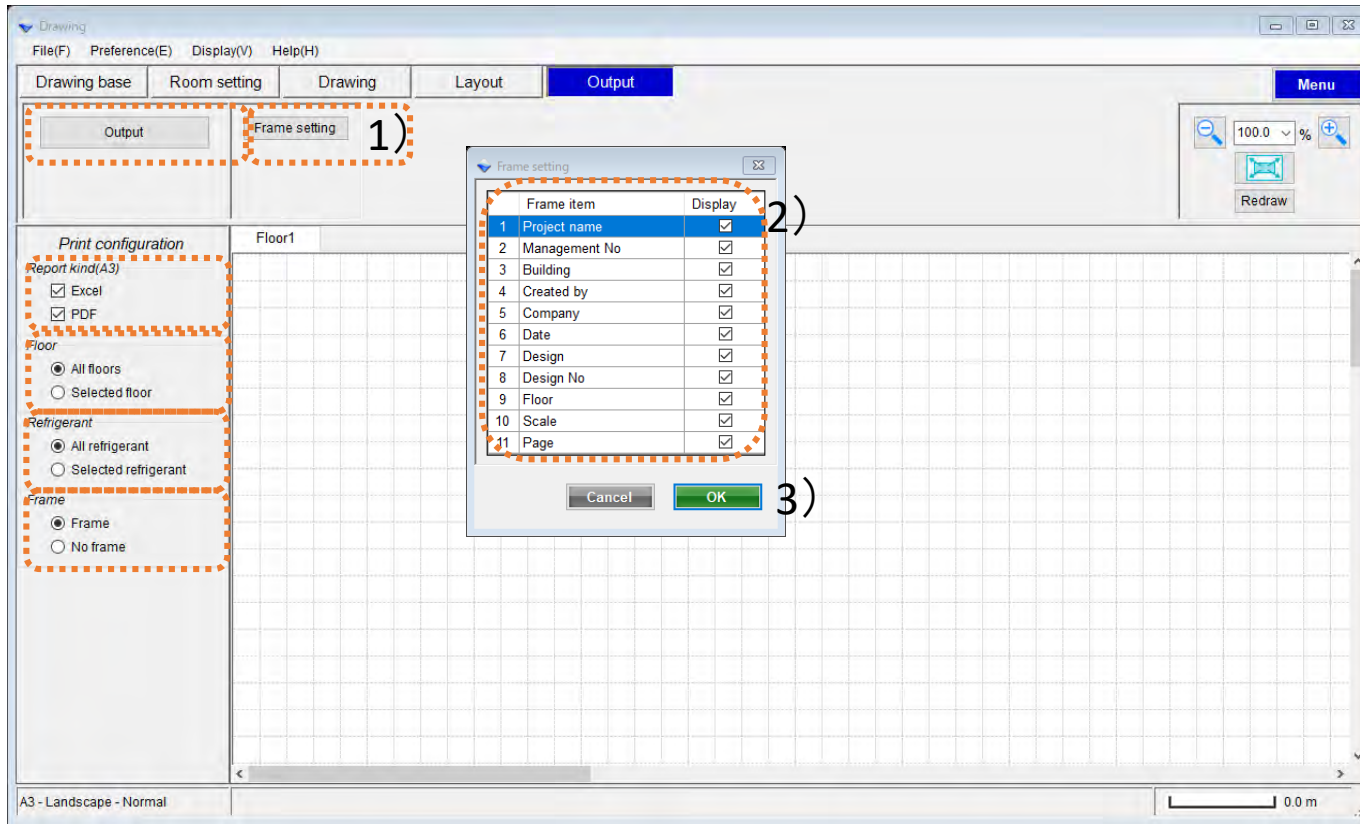
The screenshot shows a software interface for setting power lines. The main window has a menu bar (File, Preference, Display, Help) and a toolbar with buttons for 'Set power board', 'Set power line', 'Set breaker', 'Setting view', 'Clear', 'Scale', 'D3 Wiring', and 'Quit operation'. The 'Set power line' button is highlighted with a red dashed box and labeled '1)'. Below the toolbar is a sidebar with 'VRF 1 Others' and 'Breaker_set' sections. The 'Breaker_set' section has 'Breaker1' selected, highlighted with a red dashed box and labeled '2)'. The main drawing area shows a floor plan with various equipment icons. A red dashed box labeled '3)' highlights a specific area on the floor plan. A dialog box titled 'Set power line' is open, showing a table with breaker information. The 'Set' button at the bottom right of the dialog is highlighted with a red dashed box and labeled '5)'. The table in the dialog has the following data:

Powerboard1	Breaker(A)	Limit total of MCA(A)	MCA(A)	Cable(m)
Breaker1	50	40	0.96	0
↳ Indr23			0.32	
↳ Indr22			0.32	
↳ Indr21			0.32	

- 1) Press "Setting view."
- 2) Select Power board



Powerboard1	Breaker(A)	Limit total of MCA(A)	MCA(A)	Cable(m)
Breaker1	50	40	23.3	0
└ Otdr3(M)			23.3	0
Breaker2	50	40	23.3	0
└ Otdr3(S)			23.3	0



Report kind(A3)

Select "Excel" or "PDF"

Floor

Select "All Floor" or "Selection Floor"

All Floor :Output all Floor

Selection Floor: Output Selection Floor

Refrigerant

Select "All refrigerant" or "Selected refrigerant"

Frame

Select "Frame" or "No Frame"

Output

Output the image of Layer set by Display

*Outputs the contents displayed in the display category.

Display-Display category

Frame setting

1)Press Frame setting

2)Check Frame item

3)Press ok