REVIT PURE
TEMPLATE GUIDE

BASICS TEMPLATE GUIDE
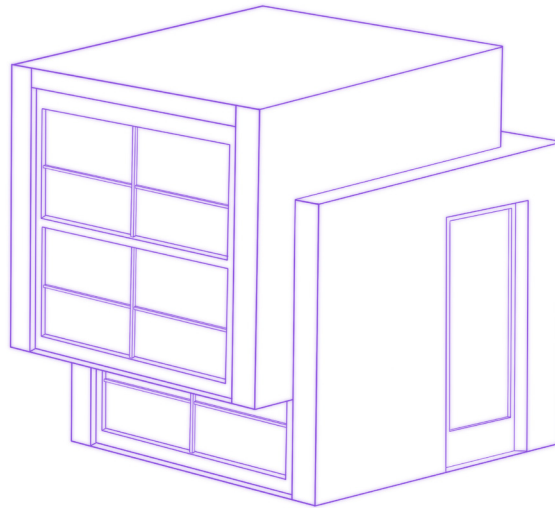
Template Version 5.0 – October 2022

## POWERED BY:

BIMPURE

LEGAL DISCLAIMER

TEMPLATE

The Revit Pure BASICS template is conceived for architects, builders and designers. We modified the default Revit template to create a beautiful, lean, simple and efficient document that is used and loved by hundreds of users. The default font is **Swiss721 Cn BT**, which is more cute than Arial.

Eventually, you will have to adapt this template to fit your own needs.

You can replace all RP values in the template by the abbreviation for your office name. Then, modify the title blocks to add your own logo.

The first thing to do in the template is to have a look at the legends views.
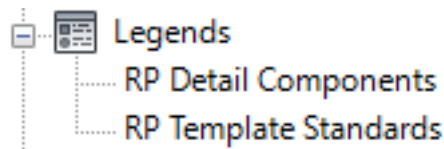
The **RP-Template Standards** view contains all lines, regions, tags and other families in the template.
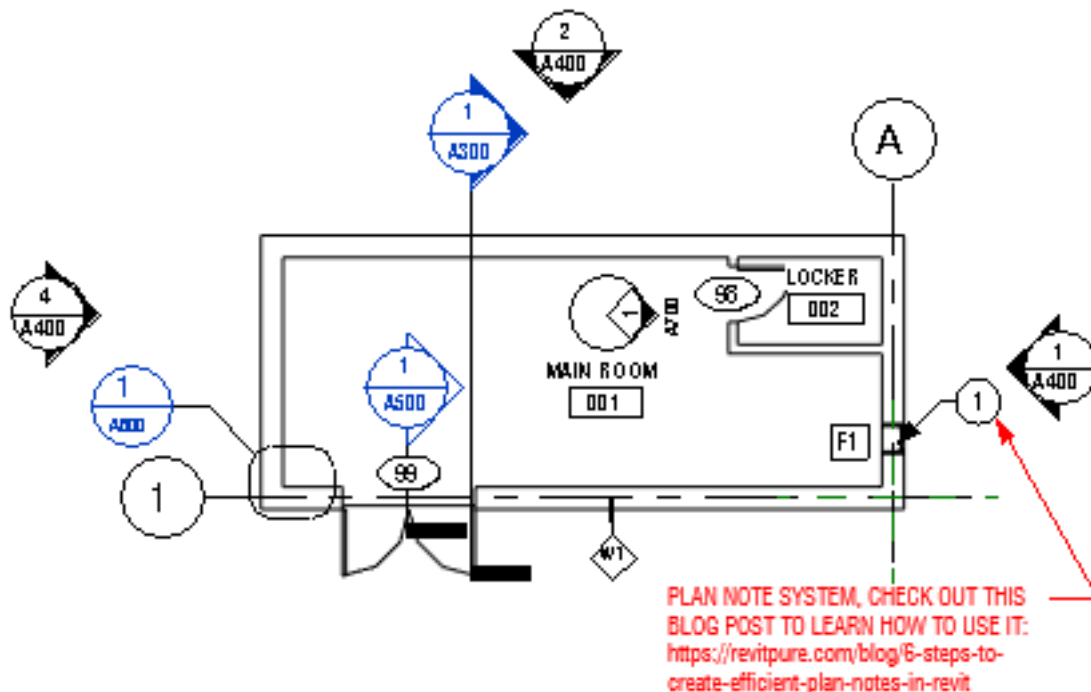
The **RP-Detail Components** contains a few detail items that you can use in 2D detailing views.

This guide explains how this template is built. Good luck.

DEFAULT BUILDING

When opening the Level 1 floor plan, you will see a default building. It was created so you can see some of the tags and dimensions used in action. Of course, you can delete these elements when starting a new project.

PLAN NOTE SYSTEM, CHECK OUT THIS BLOG POST TO LEARN HOW TO USE IT: https://revitpure.com/blog/6-steps-to-create-efficient-plan-notes-in-revit
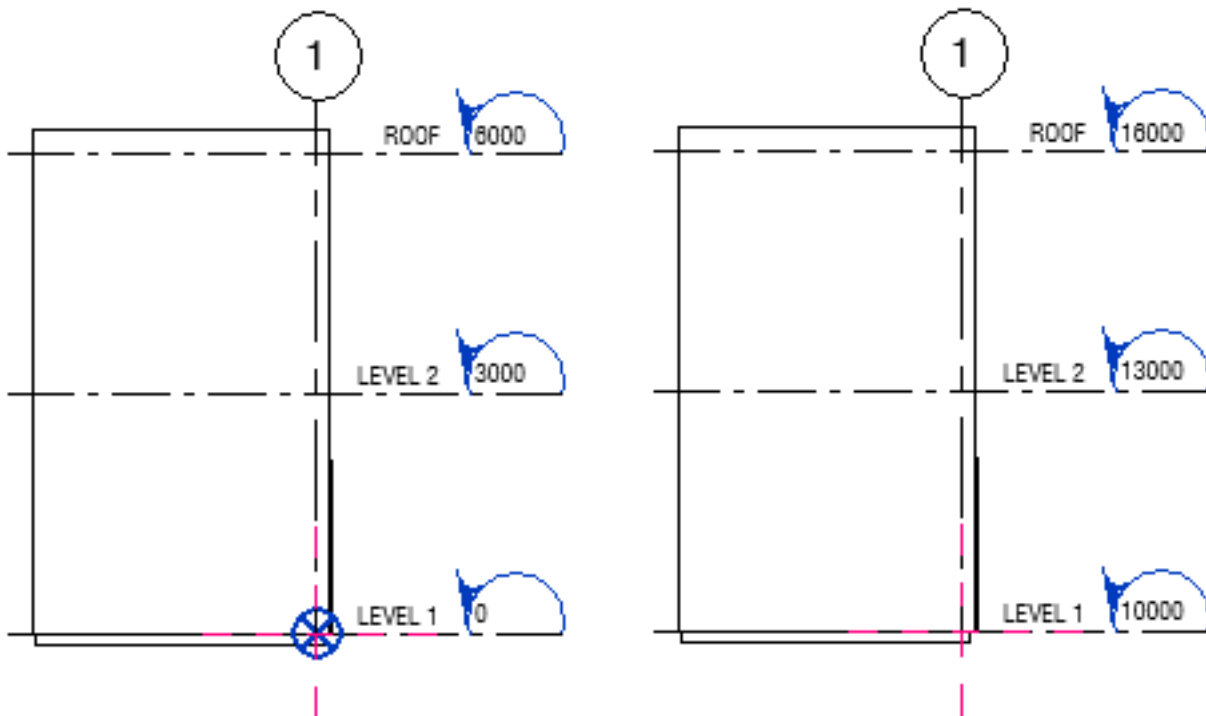
LEVEL 1 HEIGHT

In the template, Level 1 is set to 0mm (0'-0") by default.

Would you prefer to have it set to 10 000mm (100'-0")? Simply go to an elevation view. Unclip and unpin the **Project Base Point** and move it vertically until Level 1 has the value you want to use.

MOVE UNCLIPPED PROJECT BASE POINT TO ADJUST LEVEL 1 DEFAULT HEIGHT

STANDARD PREFIX

One of the first thing you will notice when opening the template is that everything is named with the **RP** prefix. Why even do that? The reason is to keep your template clean. Every time there is a foreign element loaded in your project, it will be obvious since it's name will be random.

You should replace this **RP** prefix by your own office standard prefix. That should take you 1 hour or so, but it will help you get familiar with the content inside the template.

```
RP_TAG_Wall-Type
RP_TAG_Window
RP_TB_A0
RP_TB_A1
RP_TB_A3
RP_TB_A4
RP_TB_ArchA-Letter
RP_TB_ArchB-11x17
RP_TB_ArchD
RP_TB_ArchE
RP_TB_Welcome_Page
RP_VIEW_Callout Head
RP_VIEW_Elevation Mark Body Exterior
```

FAMILIES ORGANIZATION

The default Revit template family organization is a mess. It's almost impossible to tell from a family name what it is actually doing. We fixed this issue by giving the RP prefix as well as another prefix indicating the family type. We also try to avoid spaces in family names.

Here is the full list of special prefix with an example for each case:

Annotation Symbols:	RP_ANN_Plan-Note.rfa
Detail Components:	RP_DT_Glass.rfa
Doors:	RP_DOOR_Simple.rfa
Profiles:	RP_PRL_Gutter-Bevel.rfa
Railings:	RP_RAI_Baluster-Steel.rfa
Site:	RP_SITE_Parking-Space.rfa
Tags:	RP_TAGS_Window.rfa
Title Blocks:	RP_TB_ArchE.rfa
View Symbols:	RP_VIEW_Section-Tail.rfa
Windows:	RP_WIN_Fixed.rfa

When you start modifying this template with your own standards, you can replace the RP prefix by your own office prefix.

MATERIALS

In addition to default materials, this template includes additional useful and beautiful materials. As you will notice, all materials contain the prefix RP which you can rename to fit your office standards. Be careful: every time you load an external family, all the embedded materials will be added to this list. Make sure to keep your materials clean.

RP-Chromed Steel

RP-Ceiling Tiles 610 x 610

RP-Ceiling Tiles 610 x 1220

RP-Carpet

RP-Brown Steel

RP-Brick
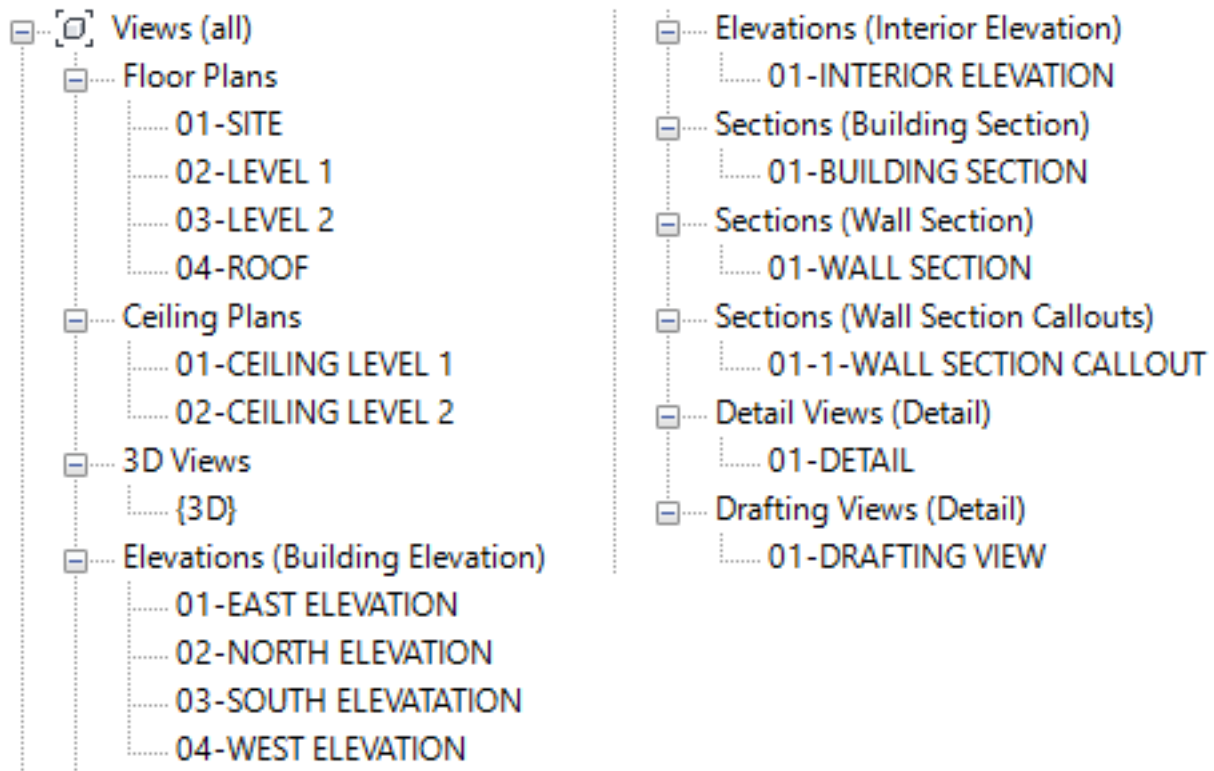
RP-Architectural Block

RP-Aluminum

VIEWS ORGANIZATION

We created a few additional view types that are used by most users. This includes **Interior Elevation**, **Wall Section, Wall Section Callouts**.

By default, the view names are numbered. This is a great way to keep your views organized and we recommend you to keep this technique when creating views.

Each Wall Section Callout has two numbers: one referring to the original wall section and another one referring to the detail number for that wall section.

```
⊟─ [O] Views (all)
   ⊟─ Floor Plans
      ├── 01-SITE
      ├── 02-LEVEL 1
      ├── 03-LEVEL 2
      └── 04-ROOF
   ⊟─ Ceiling Plans
      ├── 01-CEILING LEVEL 1
      └── 02-CEILING LEVEL 2
   ⊟─ 3D Views
      └── {3D}
   ⊟─ Elevations (Building Elevation)
      ├── 01-EAST ELEVATION
      ├── 02-NORTH ELEVATION
      ├── 03-SOUTH ELEVATATION
      └── 04-WEST ELEVATION
```

```
⊟─ Elevations (Interior Elevation)
   └── 01-INTERIOR ELEVATION
⊟─ Sections (Building Section)
   └── 01-BUILDING SECTION
⊟─ Sections (Wall Section)
   └── 01-WALL SECTION
⊟─ Sections (Wall Section Callouts)
   └── 01-1-WALL SECTION CALLOUT
⊟─ Detail Views (Detail)
   └── 01-DETAIL
⊟─ Drafting Views (Detail)
   └── 01-DRAFTING VIEW
```

INDEPENDENT VIEW TEMPLATES

When creating views, make sure to select the correct view type. For example, when creating elevations, you can pick between **Building Elevations** and **Interior Elevations**. Each has a different view setting applied and will be categorized separately in the project browser.
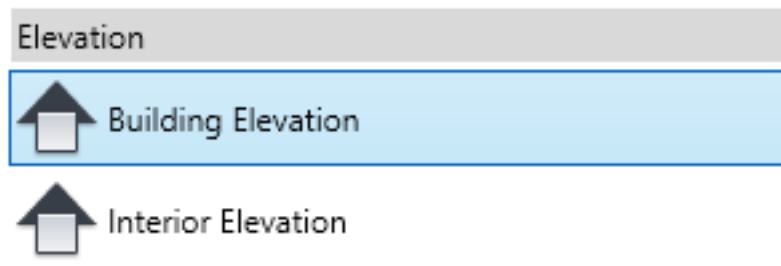
In this template, view templates are used for all new views However, the new views are **not dependent** on template by default. That means you can change the view settings without problems. That is the best option for beginners, but more advanced users might prefer to make views dependent on template for better uniformity and control.
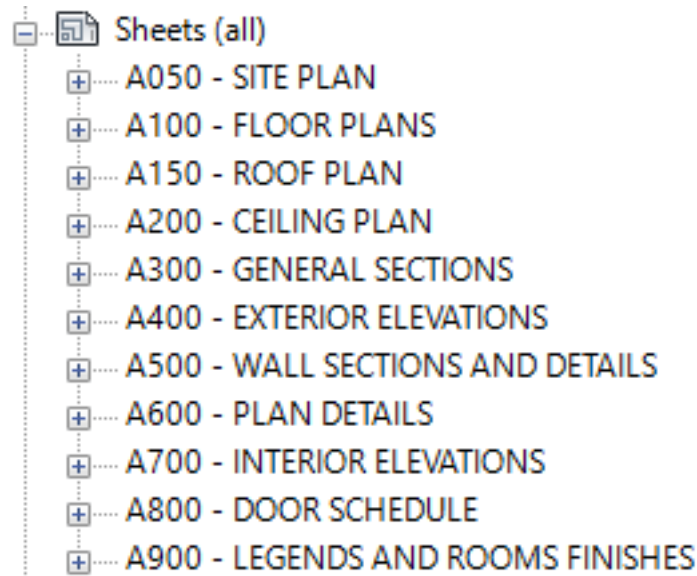
SHEETS ORGANIZATION

We created a sheet numbering that fits the most popular scheme we saw around multiple architecture firms. Of course, feel free to rename them to fit your office standards.

Most views are already placed into the sheets.

```
Sheets (all)
    A050 - SITE PLAN
    A100 - FLOOR PLANS
    A150 - ROOF PLAN
    A200 - CEILING PLAN
    A300 - GENERAL SECTIONS
    A400 - EXTERIOR ELEVATIONS
    A500 - WALL SECTIONS AND DETAILS
    A600 - PLAN DETAILS
    A700 - INTERIOR ELEVATIONS
    A800 - DOOR SCHEDULE
    A900 - LEGENDS AND ROOMS FINISHES
```

There is additional sheets. **X1 - WELCOME PAGE** will open every time you open the project. **X2 - ALL TITLE BLOCKS** contains all the RP title blocks available by default.

```
Sheets (all)
    X1 - WELCOME PAGE
    X2 - ALL TITLE BLOCKS
```
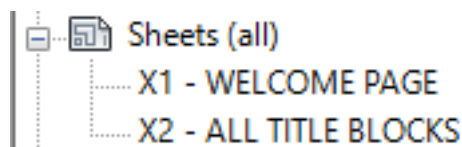
TITLE BLOCKS

The template contains 8 custom title blocks. The size are made to accommodate to people worldwide: Letter, A4, 11x17, A3, ArchD, A1, ArchE and A0. You will have to modify each title block to place your own logo instead of the Revit Pure logo.

WELCOME PAGE

Revit has the option to use a **Starting View.** This is helpful to get everyone to see the same thing when they open a project. The Starting View in this template is the sheet called X2 – WELCOME PAGE. It contains a title block with all sorts of useful information like project name, project number, address, contacts, etc. It also contains a "communications" space where you can type friendly messages to your colleagues.

RP
revitpure.com

COOL HOUSE PROJECT

PROJECT NUMBER
46481

TEAM COMMUNICATION

57 WARNINGS: WATCH OUT

GRID D HAS BEEN DELETED

CONTACT NAMES

BOBBY SMITH (STR ENGINEER): 573-491-6464

JOHN VAN WANDERKINDEN (CLIENT): 573-431-9431

PROJECT INFORMATION
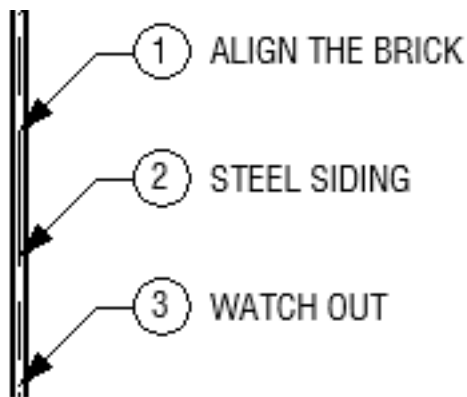
INSANE CORPORATION

4848 JOHN STREET

TEMPLATE

PLAN NOTE SYSTEM

The template includes the plan note system described in this blog post:

https://revitpure.com/blog/6-steps-to-create-efficient-plan-notes-in-revit

This includes a family called **RP_ANN_Plan-Note.rfa**.

It also includes 4 default Revit schedules to go along the note family: **Floor Plan** notes, **Ceiling** notes, **Elevation** notes and **All** notes. There is a default note created for each view type and placed on the views. These schedules are already placed on sheets A100, A200 and A400.
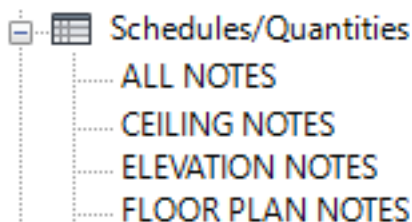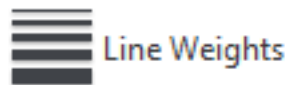

LINE WEIGHTS

The lineweights in the default Revit template are a little too light. Also, they use different thickness for different scales, which from our experience is useless and confusing. We made the Line Weights a little heavier, which produce drawings with more hierarchy.

Line Weights

	1 : 50	1 : 100	1 : 200
1	0.1800 mm	0.1000 mm	0.1000 mm
2	0.2500 mm	0.1800 mm	0.1000 mm
3	0.3500 mm	0.2500 mm	0.1800 mm
4	0.5000 mm	0.3500 mm	0.2500 mm
5	0.7000 mm	0.5000 mm	0.3500 mm
6	1.0000 mm	0.7000 mm	0.5000 mm
7	1.4000 mm	1.0000 mm	0.7000 mm

DEFAULT LINEWEIGHT

	1 : 50	1 : 100	1 : 200
1	0.1000 mm	0.1000 mm	0.1000 mm
2	0.2200 mm	0.2200 mm	0.2200 mm
3	0.3500 mm	0.3500 mm	0.3500 mm
4	0.5000 mm	0.5000 mm	0.5000 mm
5	0.7000 mm	0.7000 mm	0.7000 mm
6	1.0000 mm	1.0000 mm	1.0000 mm
7	1.4000 mm	1.4000 mm	1.4000 mm

ADJUSTED LINEWEIGHT

TEMPLATE

LINESTYLES

The linestyles in the default Revit template are boring. We created a linestyle for each thickness value instead of the usual, confusing Light Line, Medium Lines, Heavy Lines you get in the default.

Also, we added lines that are extremely useful for either detailing or to use as guides when modeling. For example, we like to use RP-1-Red as a "working line" to establish a 2D layout before modeling actual 3D elements.

————————	RP-1-Blue	————————	1 - 0.10mm
— · — · —	RP-1-DashedGreen	————————	2 - 0.22mm
————————	RP-1-Grey	————————	3 - 0.35mm
— ·· — ·· —	RP-1-Membrane	————————	4 - 0.5mm
————————	RP-1-Red	————————	5 - 0.7mm
— · — · —	RP-2-DashedPurple	————————	6 - 1.0mm
— · — · —	RP-3-Membrane	————————	7 - 1.4mm
— · — · —	RP-5-DashedRed	————————	8 - 2.0mm
		————————	9 - 3.0mm

DIMENSION STYLES

Here are the default dimension styles used in the template.

1100 — RP - Linear 2.25mm

1100 — RP - Linear 3mm

45.00° — RP - Angular 2.25mm

460 — RP - Radial 2.25mm

Ø 920 — RP - Diameter 2.25mm
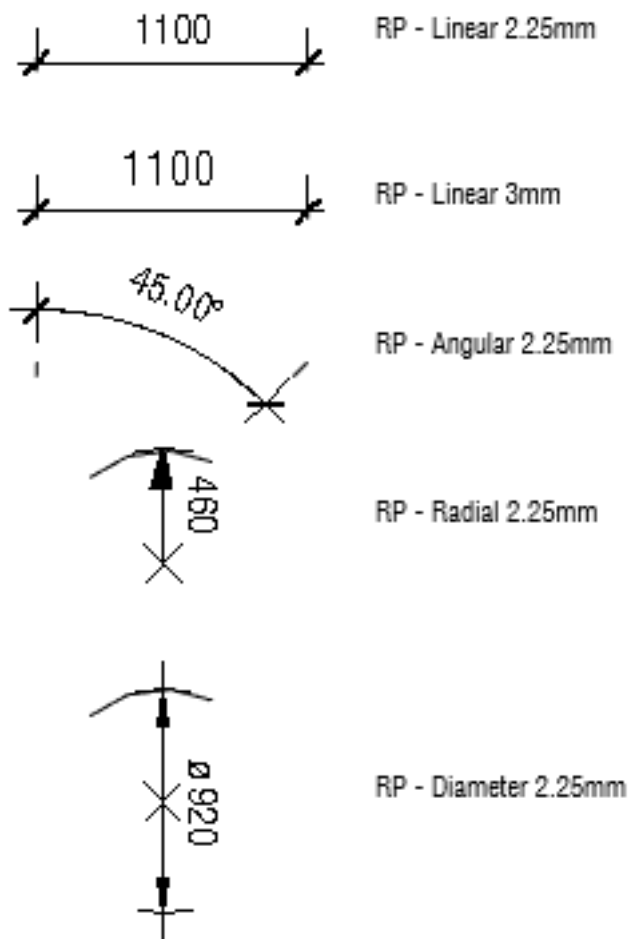
TEXT TYPES

Here are the default text types used in the template. The font used for all text is Swiss721 Cn BT, which is included with Windows.

RP 1.7mm Swiss

RP 2.4mm Swiss

RP 2.4mm Swiss Red
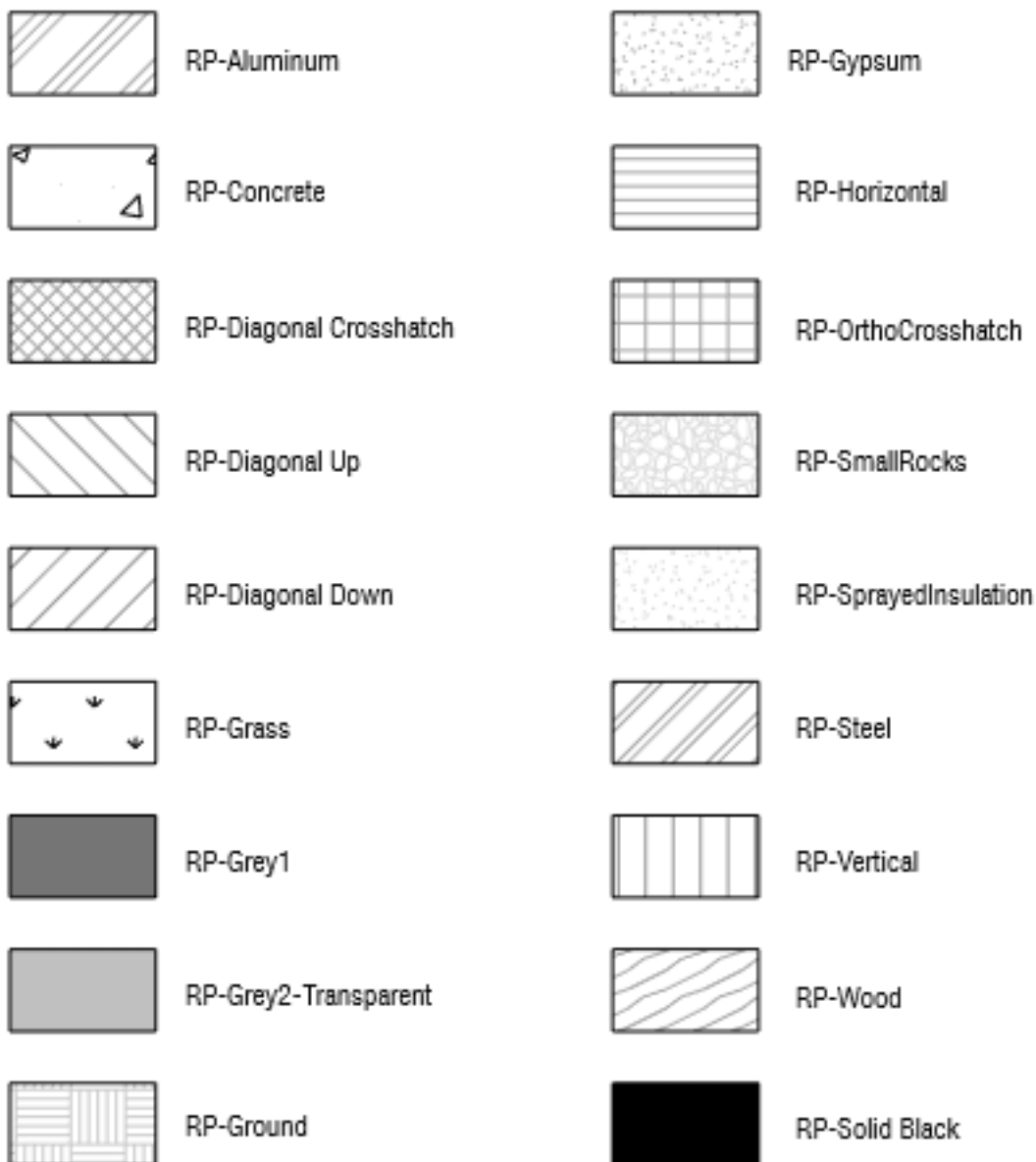
RP 2.4mm Swiss Bold

RP 5mm Swiss

RP 5mm Swiss

RP 5mm Swiss Bold

RP 10mm Swiss Bold

REGION TYPES

Most of these regions are based on the default template, but we also added a few regions that were popular and useful for users.

	RP-Aluminum		RP-Gypsum
	RP-Concrete		RP-Horizontal
	RP-Diagonal Crosshatch		RP-OrthoCrosshatch
	RP-Diagonal Up		RP-SmallRocks
	RP-Diagonal Down		RP-SprayedInsulation
	RP-Grass		RP-Steel
	RP-Grey1		RP-Vertical
	RP-Grey2-Transparent		RP-Wood
	RP-Ground		RP-Solid Black

TAGS

The default tags families were certainly lacking, so we added many new tags that were the most used by users. The multi-category tag indicates the type mark, which can be useful for most model elements.

AREA NAME 150	AREA TAG
CEIL-1	CEILING TAG
XXX	DOOR TAG
?	KEYNOTE TAG
?	MATERIAL TAG
XX	WALL TAG
R1	REVISION TAG
ROOM NAME XXX	ROOM TAG
1t	WINDOW TAG
XX	MULTI-CATEGORY TAG (TYPE MARK)

DETAIL COMPONENTS

The template includes a few popular, easy to use detail components. You will find them all in the view RP Detail Components.

DETAIL COMPONENTS

PLYWOOD

RIGID INSULATION 25mm

RIGID INSULATION 38mm

GLASS

BRICK

METAL STUD SECTION

METAL STUD PLAN

METAL FURRING

REPEATING DETAILS

BRICK

INTERNAL ORIGIN

Did you know Revit includes a secret internal origin coordinate? This origin is invisible. By default, all imported and exported CAD files will be made relatively to this origin. In the RP template, the location is indicated in the site view and in the elevation view by reference planes and red text. It intersects grids A and 1 and the height is set to Level 1. **Note**: In Revit 2021, the Internal Origin now has a marker, so the reference planes are not necessary.

INTERNAL ORIGIN (0,0,0)
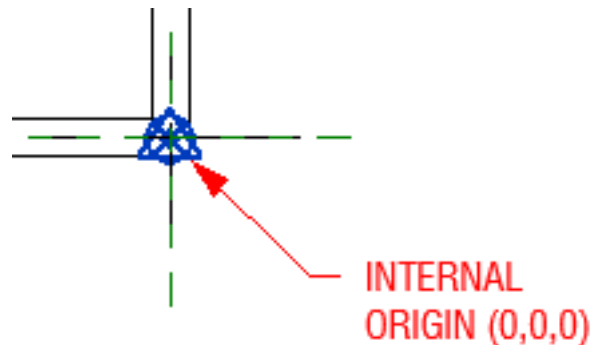
RED TEXT ANNOTATIONS

To help you navigate the template, we added a few red text annotation guidelines. Once you are comfortable, feel free to delete these texts.

VIEW SYMBOLS

The view symbols have been revamped to be beautiful and efficient.

 SECTION HEAD OPEN

 SECTION HEAD NO ARROW

 SECTION HEAD FILLED

 LEVEL HEAD

 GRID HEAD

 ELEVATION MARK BODY EXTERIOR

 ELEVATION MARK BODY INTERIOR
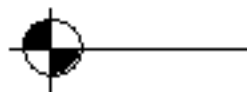
 VIEW TITLE
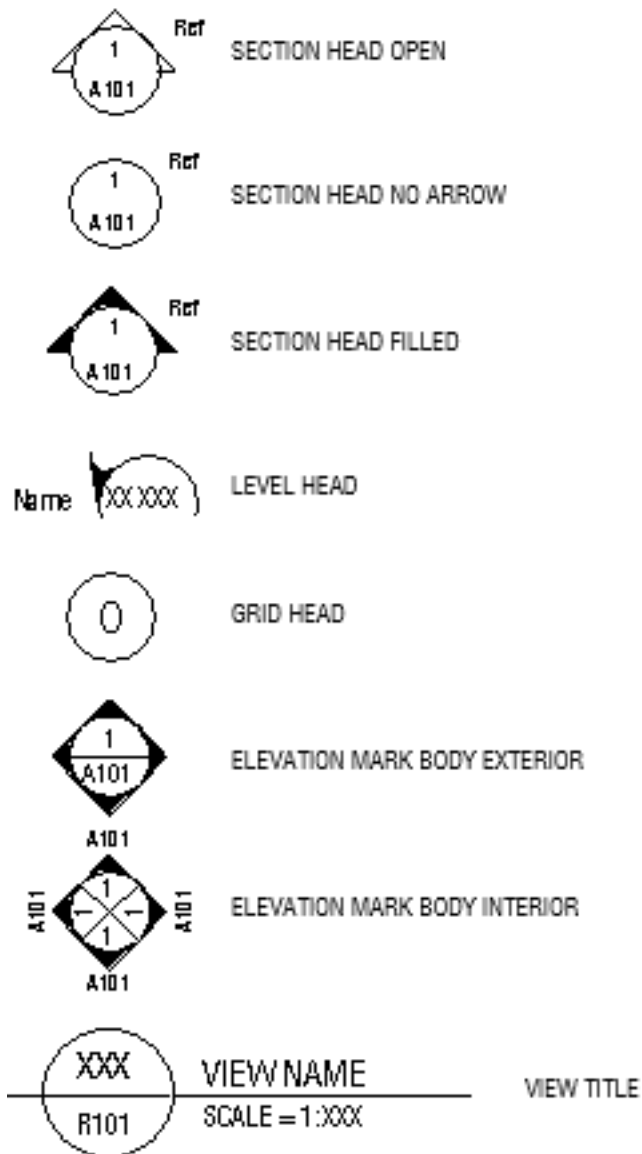
OTHER SYMBOLS

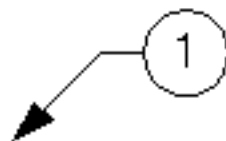Here are some additional annotations families.

N
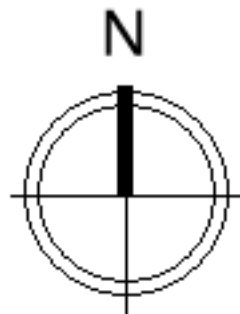
NORTH ARROW

SPOT ELEVATION

℄ CENTRELINE

1 PLAN NOTE

WHAT'S NEXT?

This template fixes many glitches and annoying features of the default Revit template. You can use it as is for your first few projects. Eventually, you will probably have to start customizing and integrating your own content inside this template. Make sure to always keep your template lean and efficient. If necessary, keep a separate Revit container file with additional families, drafting views, wall compositions, etc.

Any questions? Any comments? Please contact me:
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ABOUT THE AUTHOR

Nicolas is an architect, BIM specialist and founder of the website revitpure.com. He started using Revit in 2011 and quickly became passionate about BIM.

Nicolas worked at Atelier 21 Architects for almost ten years, where he participated as a designer and BIM manager on multiple large-scale projects.

In 2021 he went full-time on his business, BIM Pure Productions, where he teaches Revit and acts as a BIM consultant for a wide variety of AEC firms.

Nicolas teaches a BIM optimization course at Limoilou College in Quebec City, Canada. He also spoke at multiple conferences, including Autodesk University and BILT. In addition, Nicolas hosts the Revit Pure Live show, a weekly YouTube streaming event where BIM experts share their expertise on specific topics.