

A DVANCED

C ONSTRUCTION

NFORMATION

EVELOPMENT

Annex 9 Building Information Modelling (BIM) for Landscape Architect (Part 2) Autodesk Navisworks

Presented by

David Fung

Introduction to Navisworks File System

	Autodesk Navisworks Freedom	Autodesk Navisworks Simulate	Autodesk Navisworks Manage
Project viewing	✓	✓	✓
Project Review		✓	✓
Simulation and Analysis		✓	✓
Coordination			✓
Remarks	Open NWD only	✗ Clash Detection	

Navisworks file types

NWC (Navisworks Cache File)

- interpreter between Navisworks and other software

NWF (Navisworks File Set)

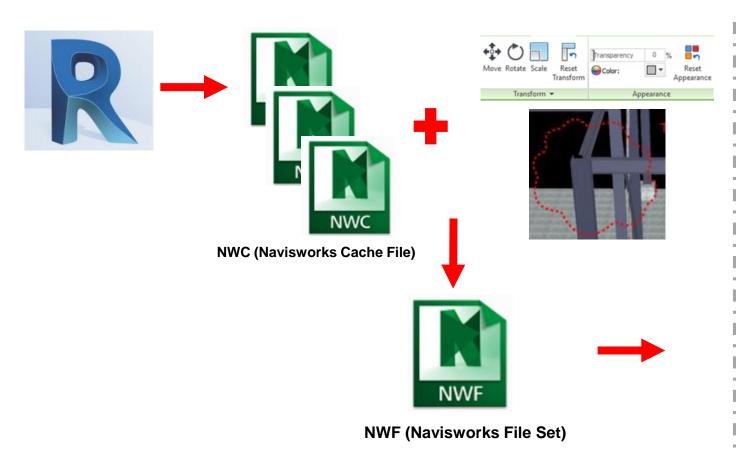
- contain links to the original native files (as listed on the Selection Tree) together with Autodesk Navisworks-specific data, such as review markups
- no model geometry is saved

NWD (Navisworks Model)

- contain all model geometry with Autodesk Navisworks-specific data, such as review markups



Navisworks file types





NWD (Navisworks Model)



Add-Ins



Navisworks 2018

Navisworks SwitchBack 2018

Autodesk Navisworks NWC Export Utility Download free Navisworks 3D viewer

The distributable NWC file exporter enables project teams using Navisworks software to generate whole-project models for simulation and analysis. Team members can generate the optimised NWC file directly from design applications without the need for a licensed seat of Navisworks. The NWC exporter works with a range of products, including AutoCAD and Revit software-based products, as well as 3ds Max, Bentley MicroStation and Graphisoft ArchiCAD software. The NWC file format supports transfer of both object geometry and associated metadata.

Follow these steps to install the Navisworks NWC exporters

1. Download Autodesk Navisworks NWC File Export Utility

2019: NavisworksExporters2019.exe

2018: NavisworksExporters2018.exe

2017: NavisworksExporters2017.exe

2016: NavisworksExporters2016.exe

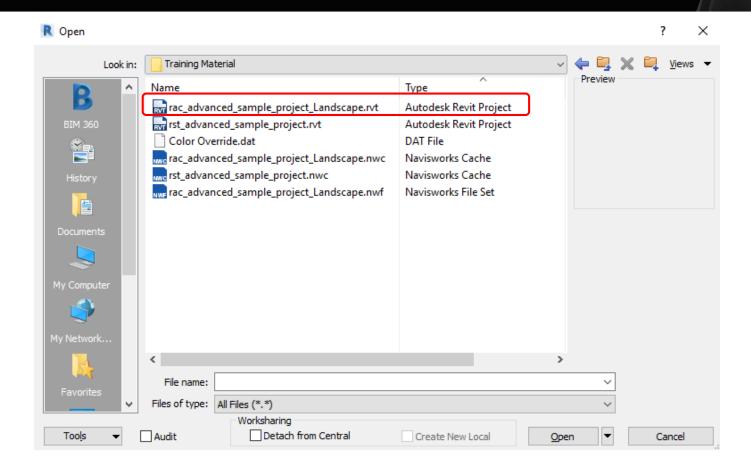
2015: NavisworksExporters2015.exe

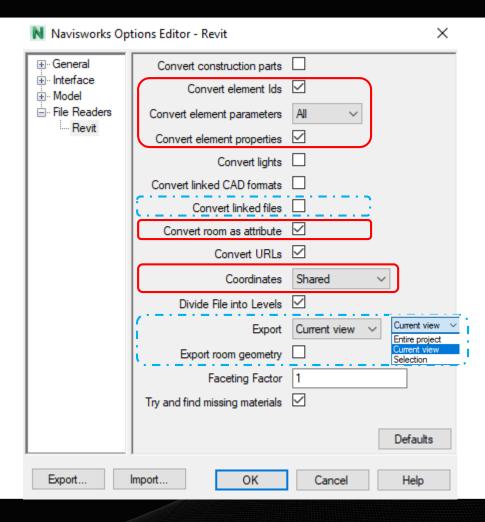
2014: NavisworksExporters2014.exe

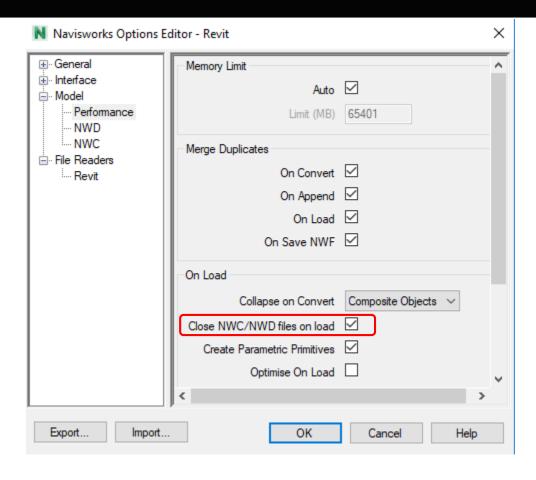
2013: NavisworksExporters2013.exe

https://www.autodesk.co.uk/products/navisworks/autodesk-navisworks-nwc-export-utility



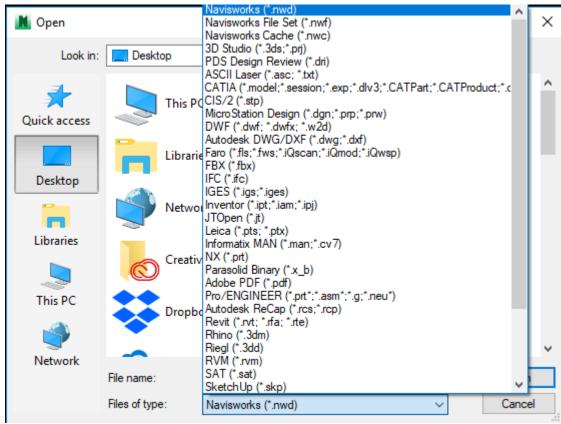




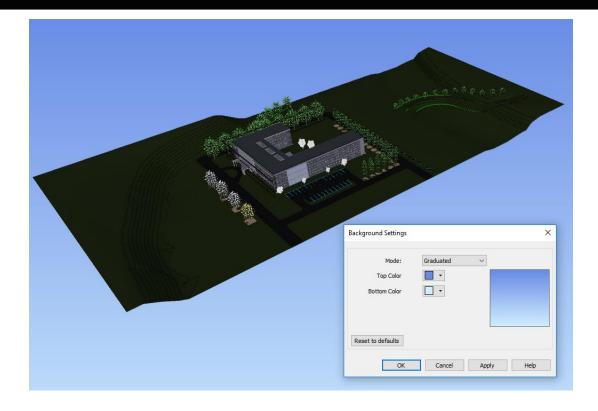


Open File



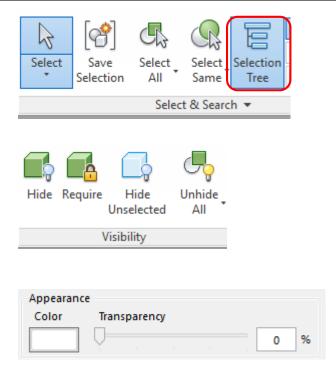


Background Setting

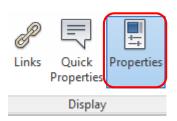


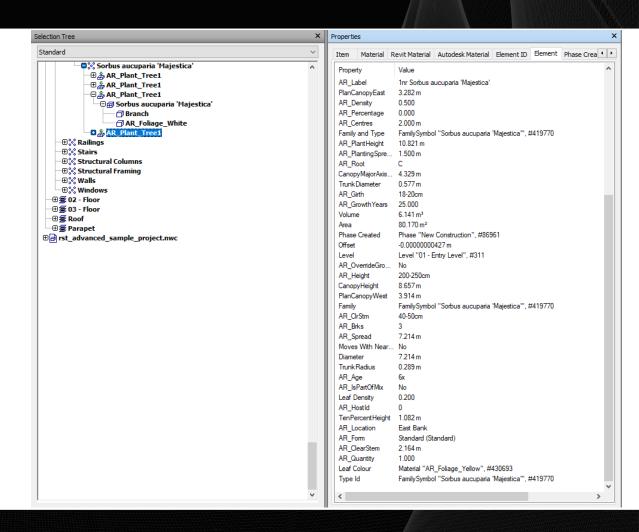


Dealing with Objects



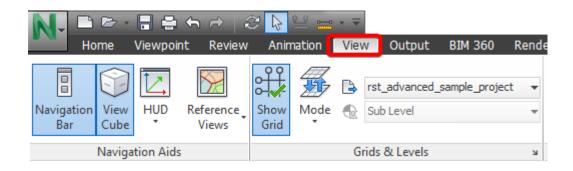
Dealing with Objects

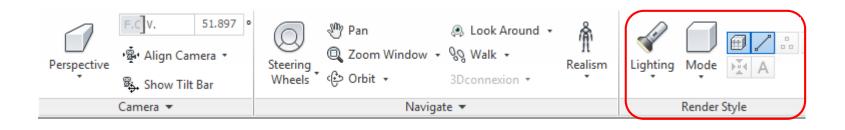




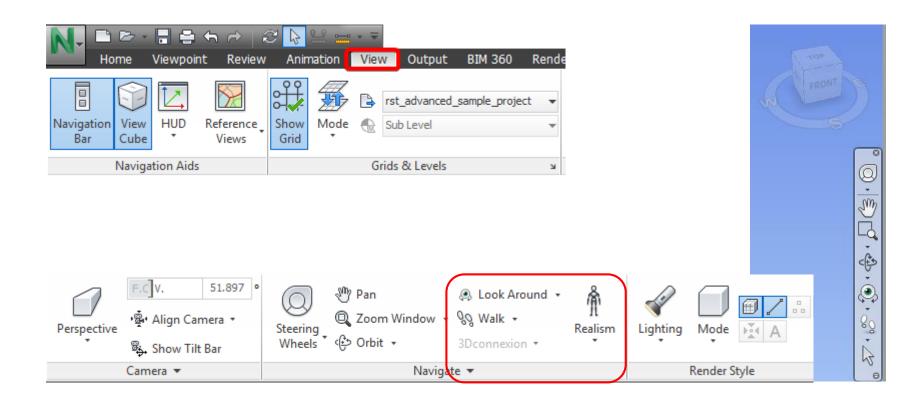


Render Style



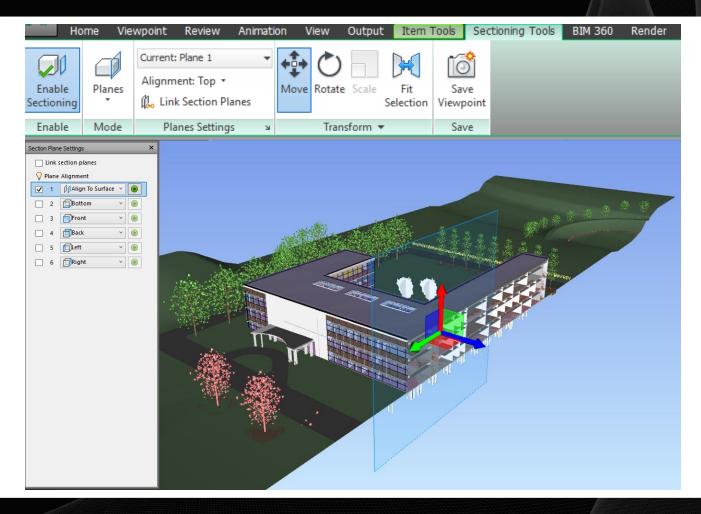


Navigate 3D Model



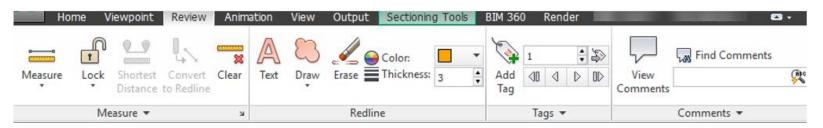
Section View

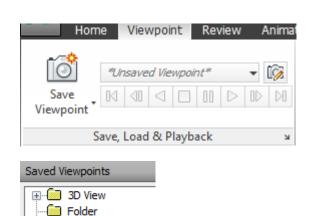


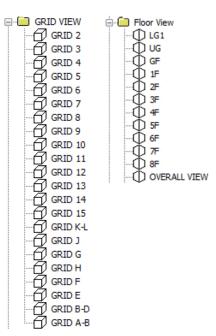


Mark-up

Tag View 1

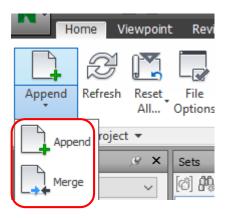






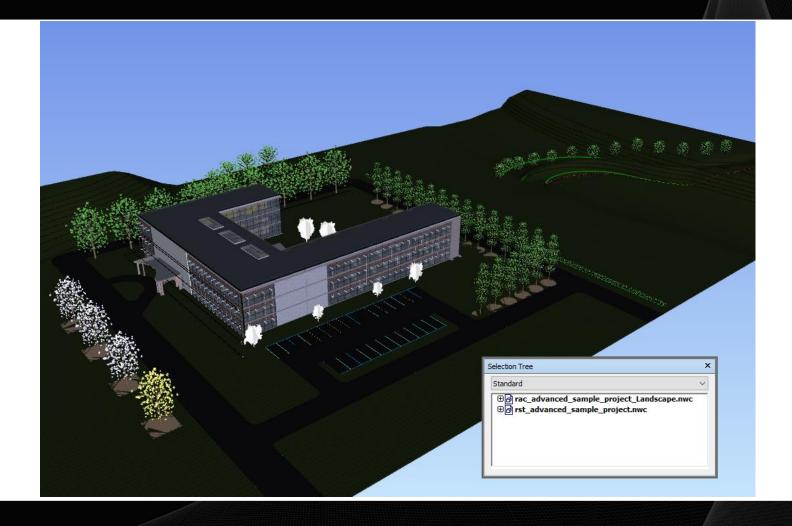
Save NWF





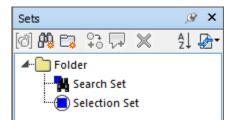


Combine Models

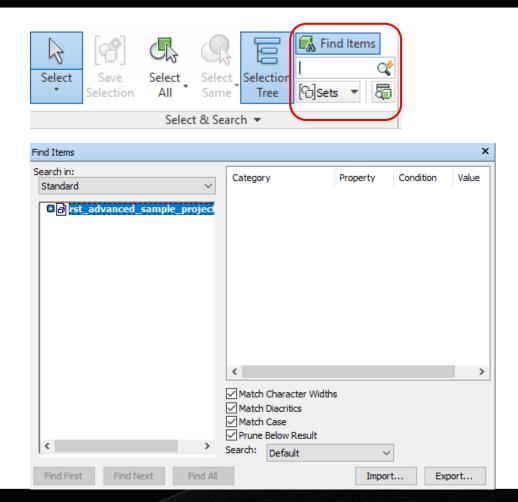


Selection

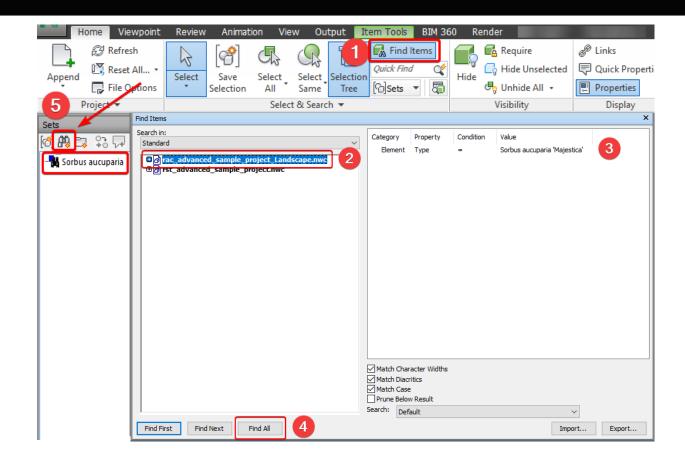


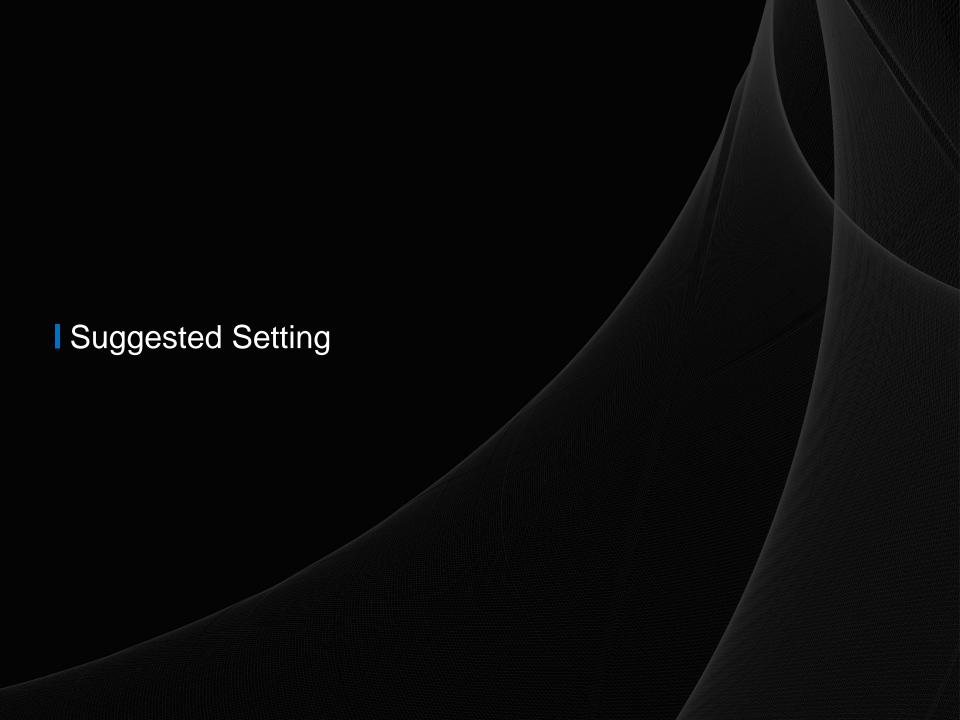


Dealing with Objects

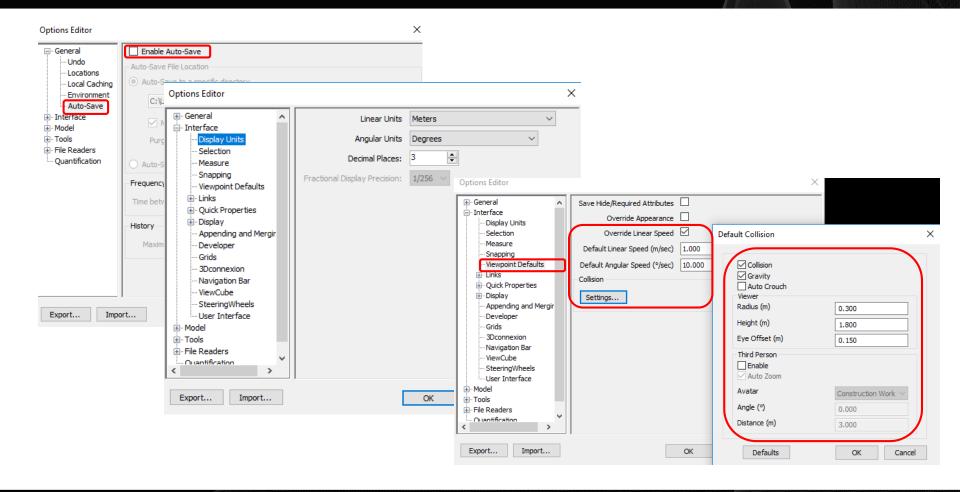


Dealing with Objects

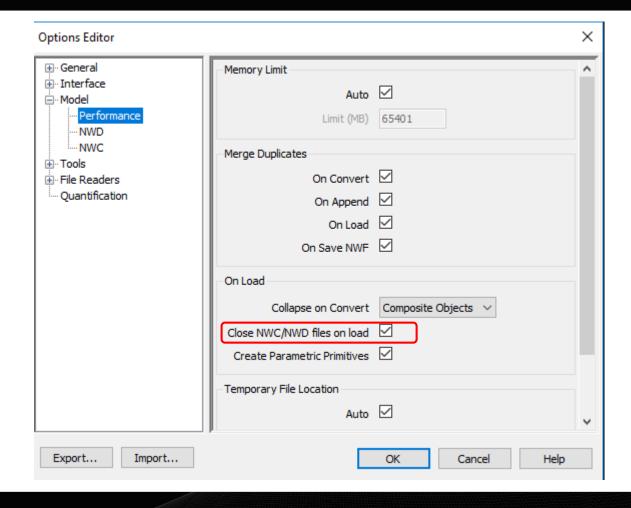




Navisworks Settings

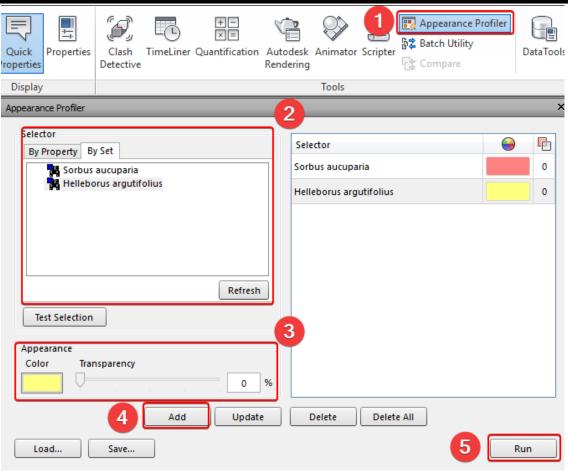


Navisworks Settings



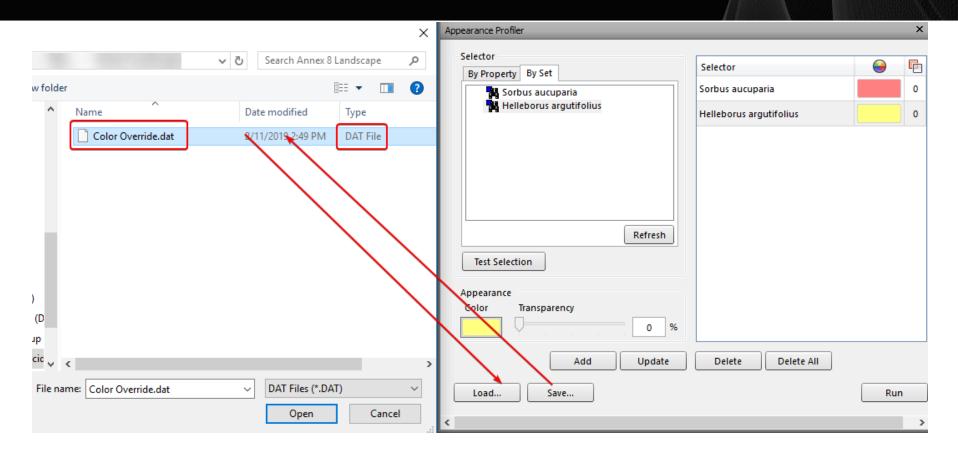


Appearance Profiler

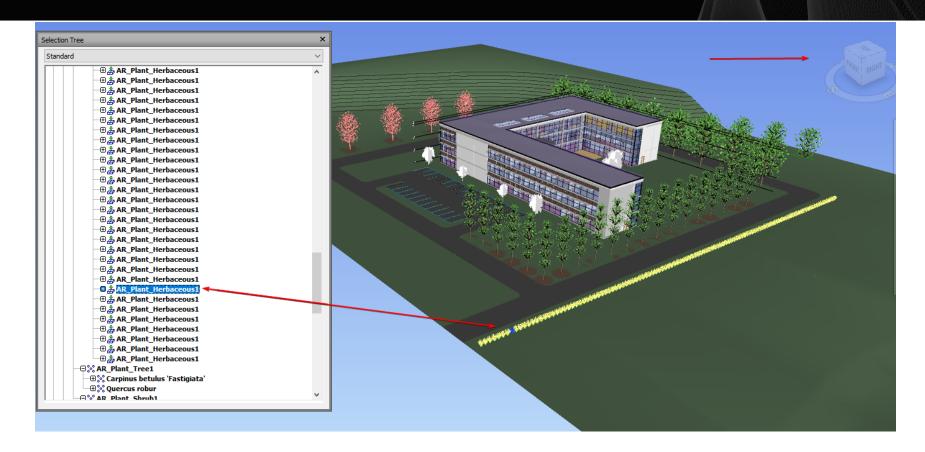




Appearance Profiler

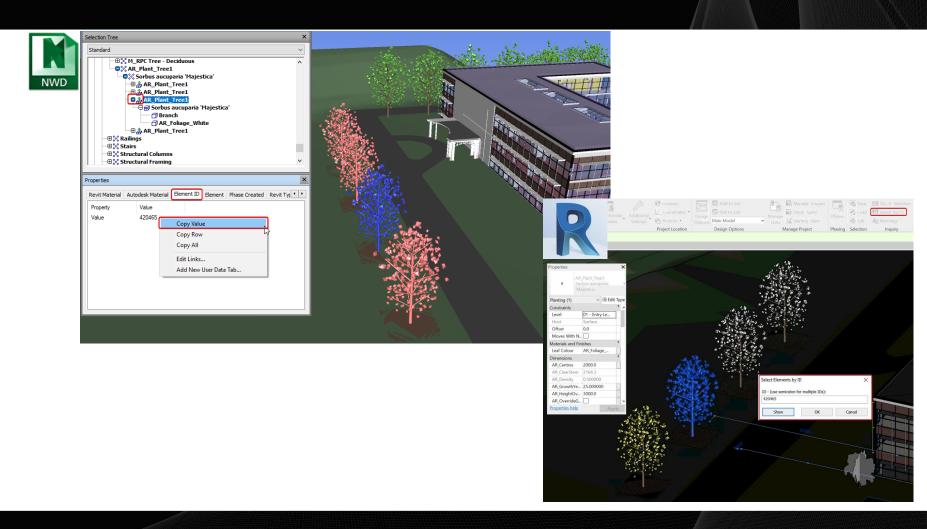


Get Element Location (View Cube)

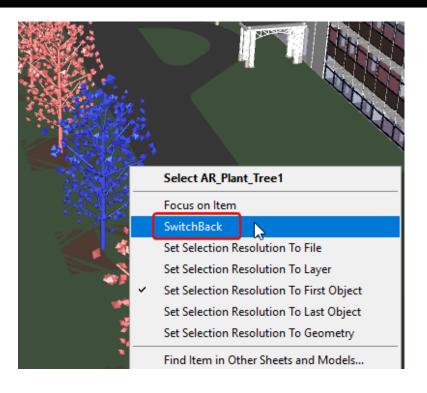


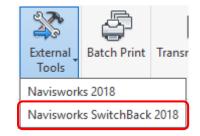


Find Elements in Revit



Switching back to Revit

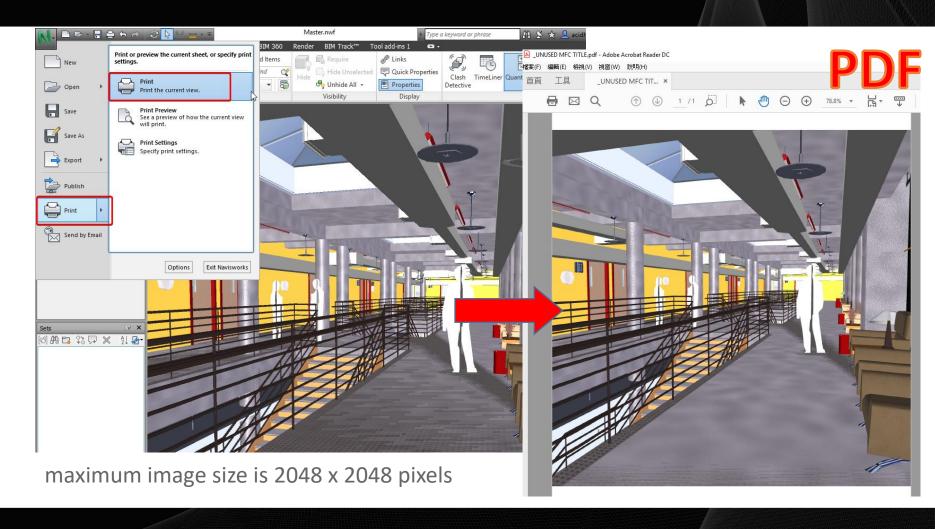




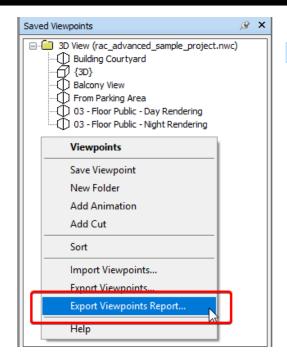


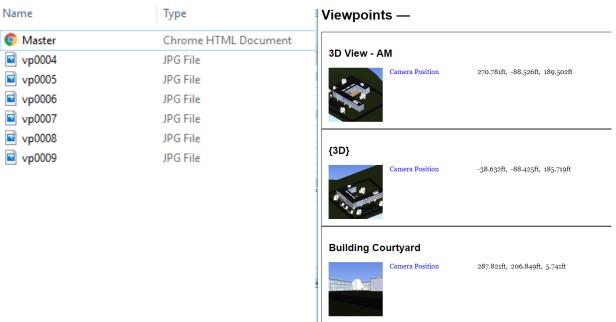


Printing



Export Viewpoints Report





CS ArtisanRV for Revit (Landscape Tool)

CS Artisan

Planting with projected growing period

- Input trees type and estimated growing schedule

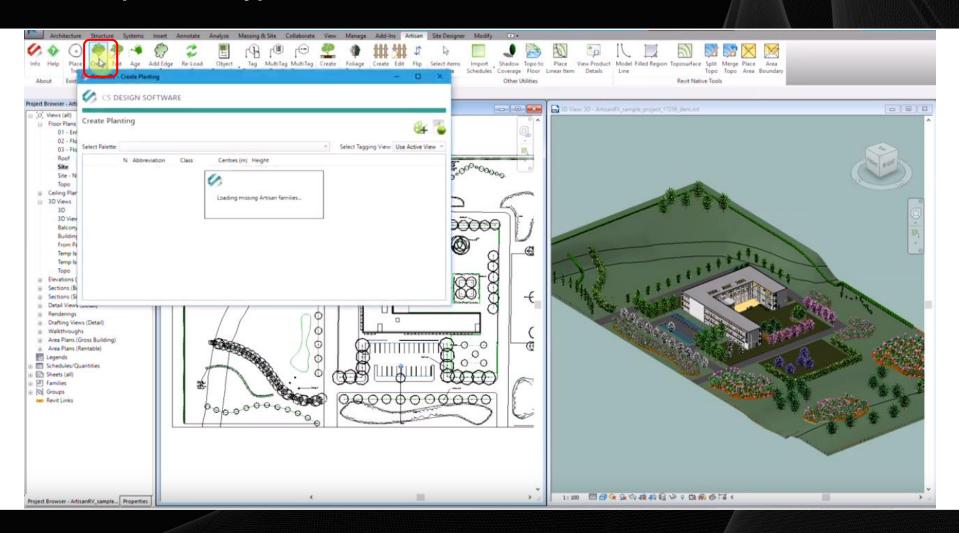
Planting Schedule

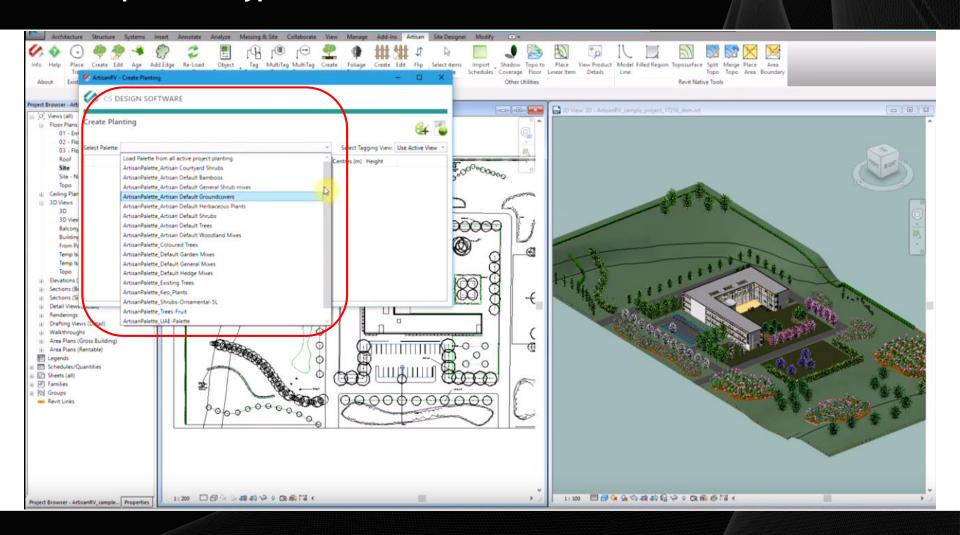
- Planting Schedule with existing, new and location information will be generated automatically

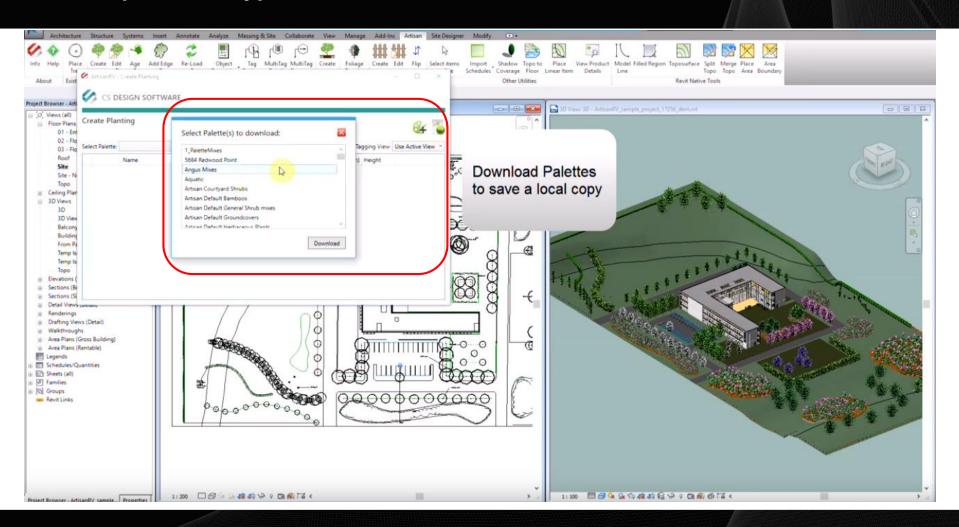
Tress Pit

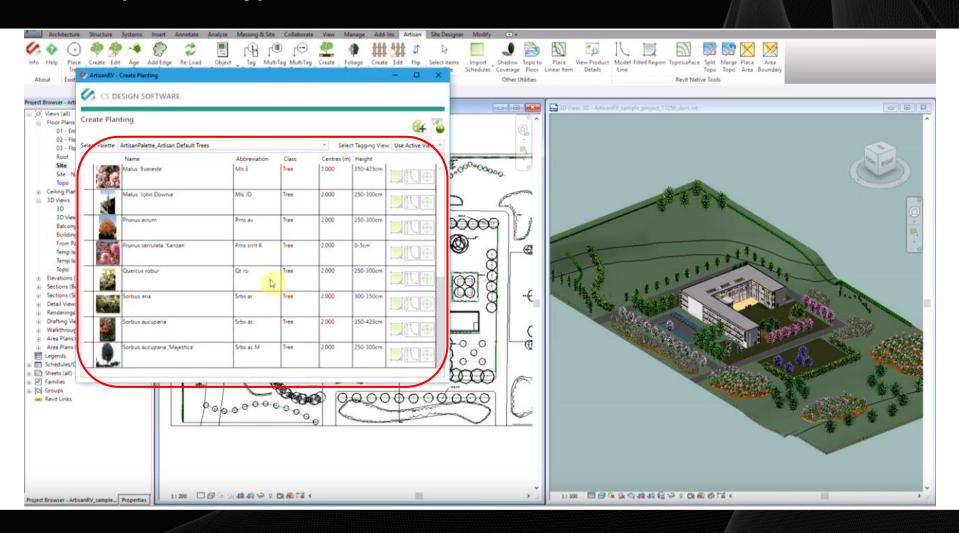
- Type of Tress Pit can be assigned by CS Artisan



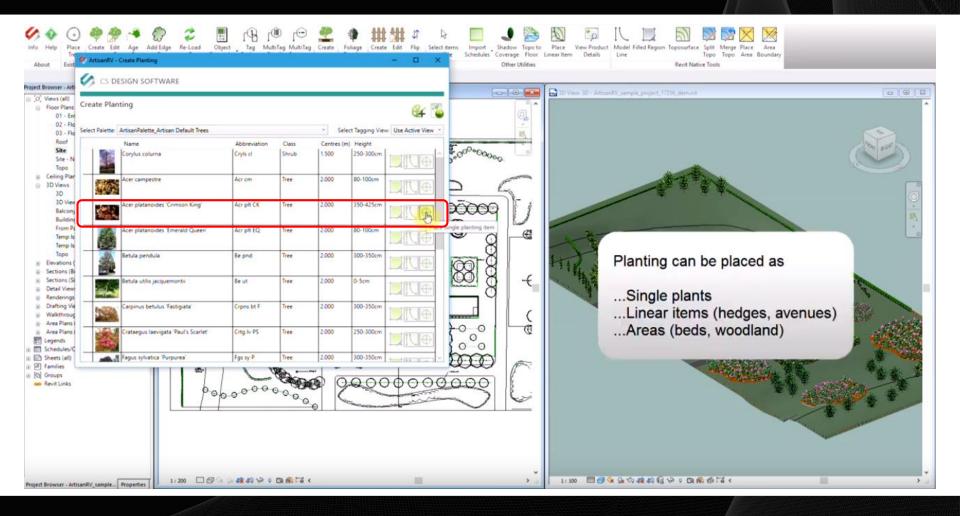




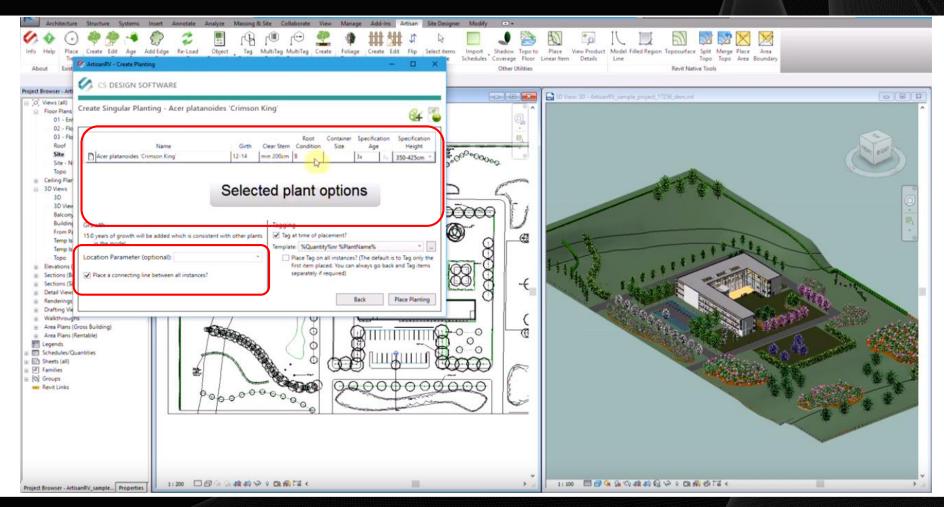




Planting can be placed as Single, Linear and Areas



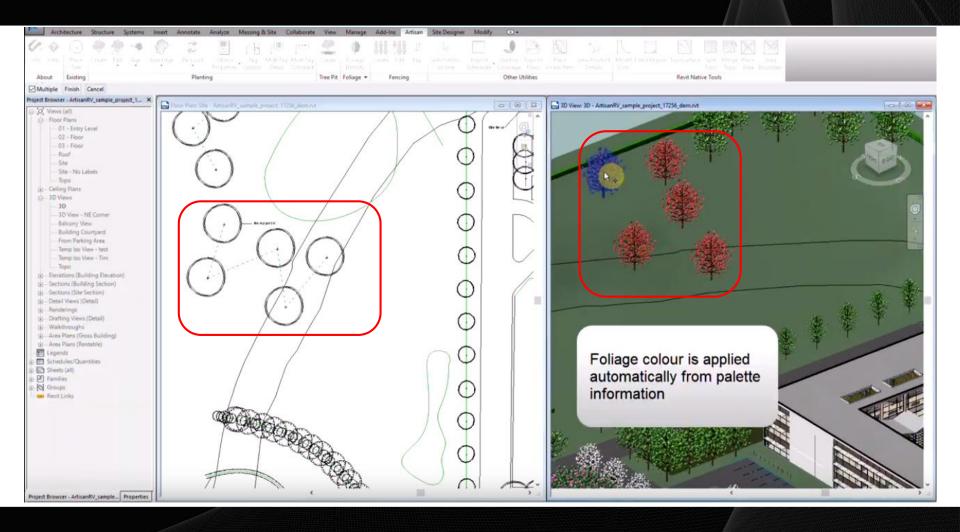
Place Single planting item



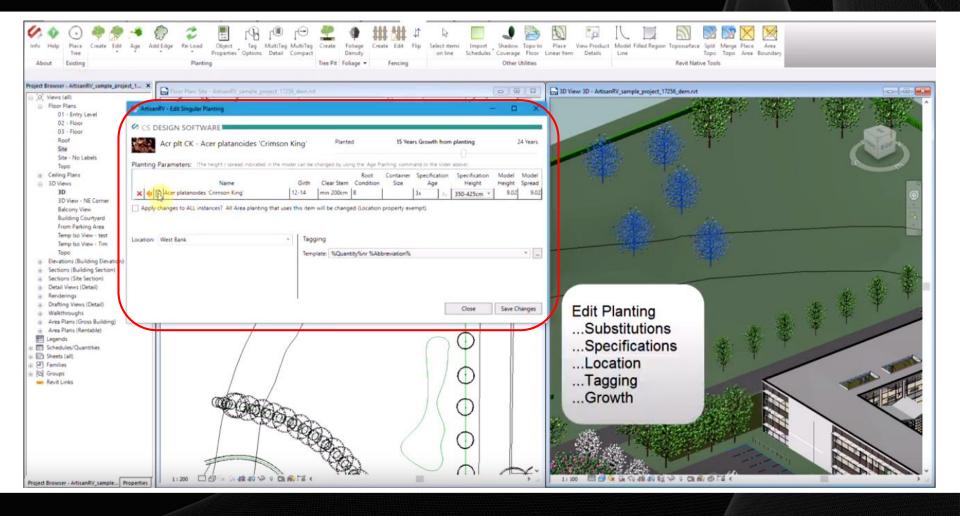
Set Specification Age, Height, Container Size and Location Parameter

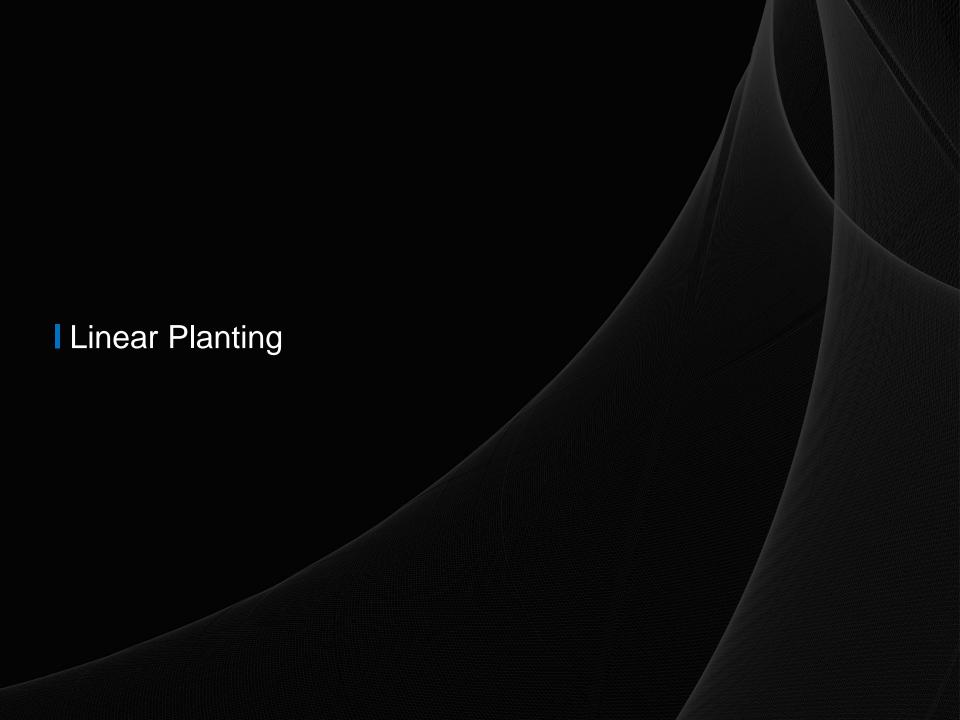


Place the tree

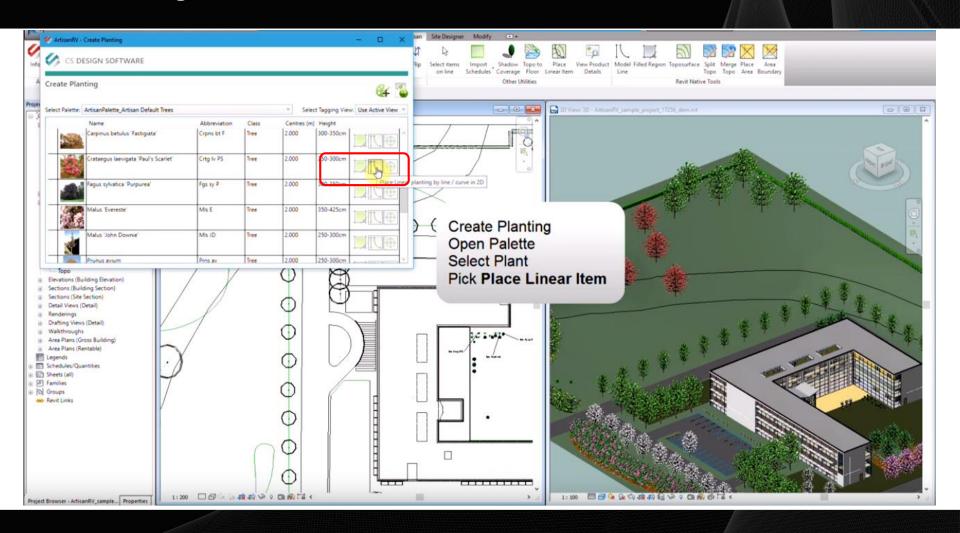


Edit the Tree information

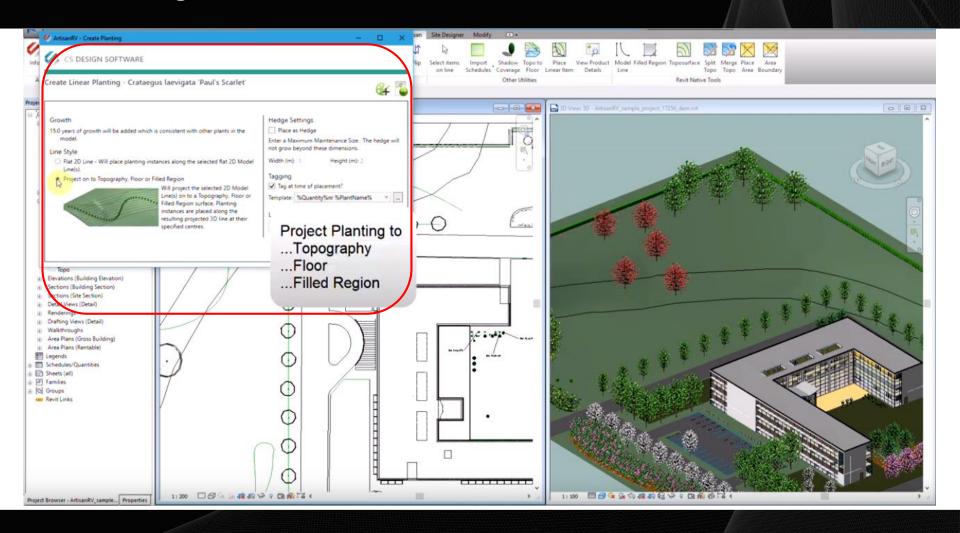




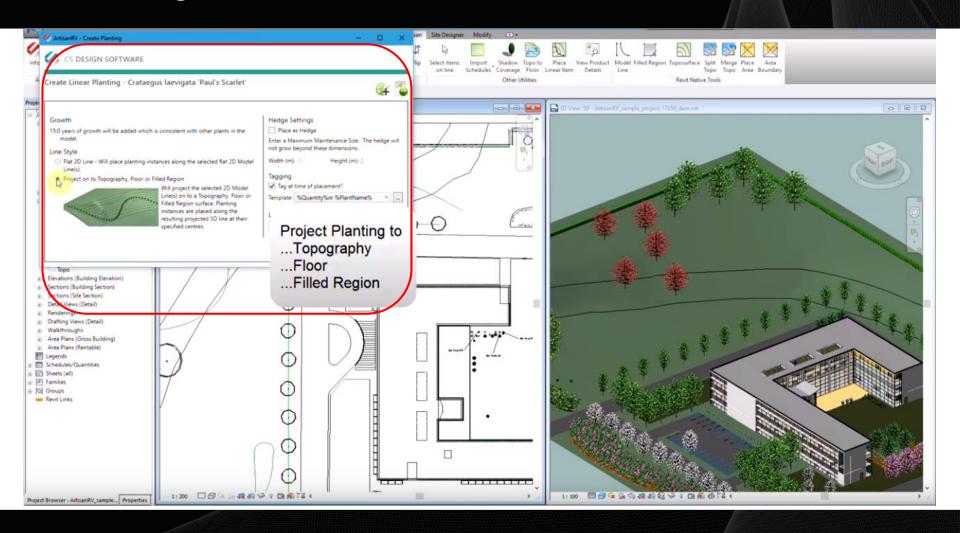
Planting on linear item



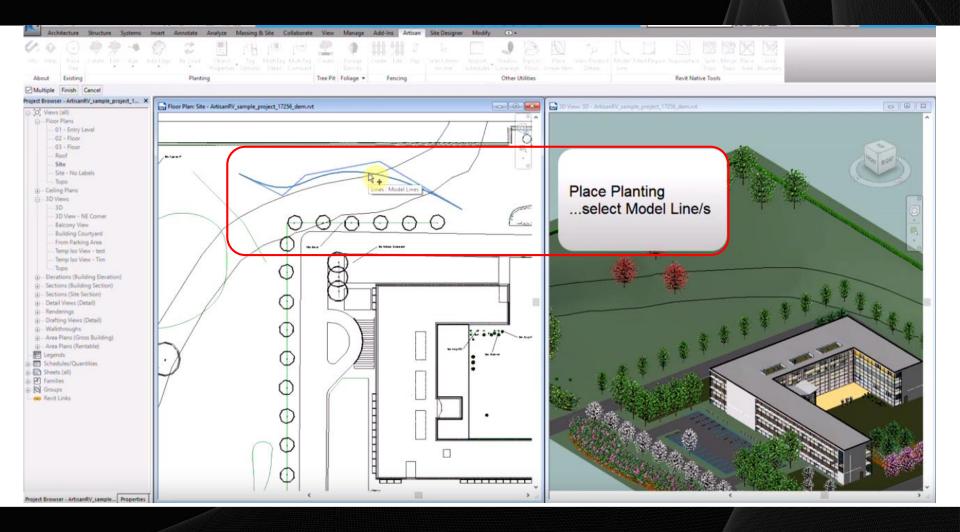
Planting on linear item



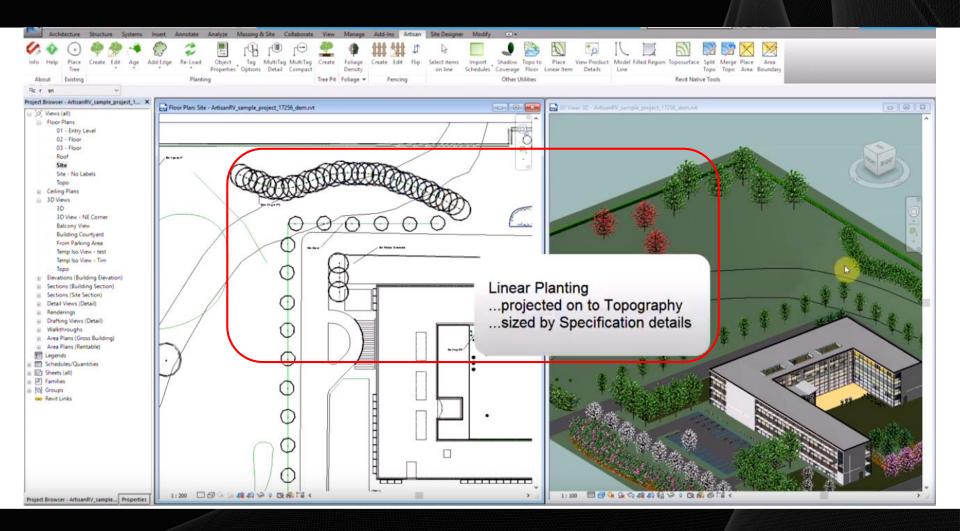
Planting on linear item



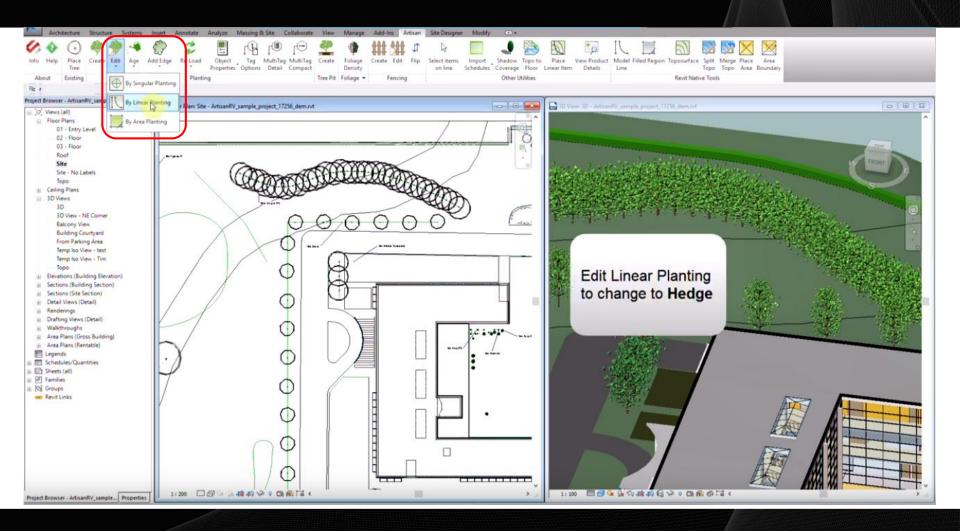
Pick a line in model



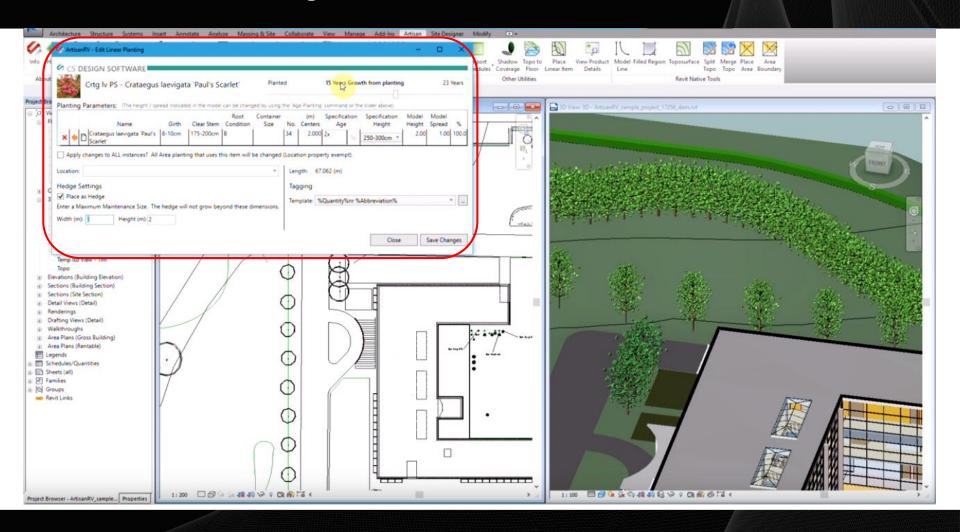
Planting projected on topography



Edit Linear Planting

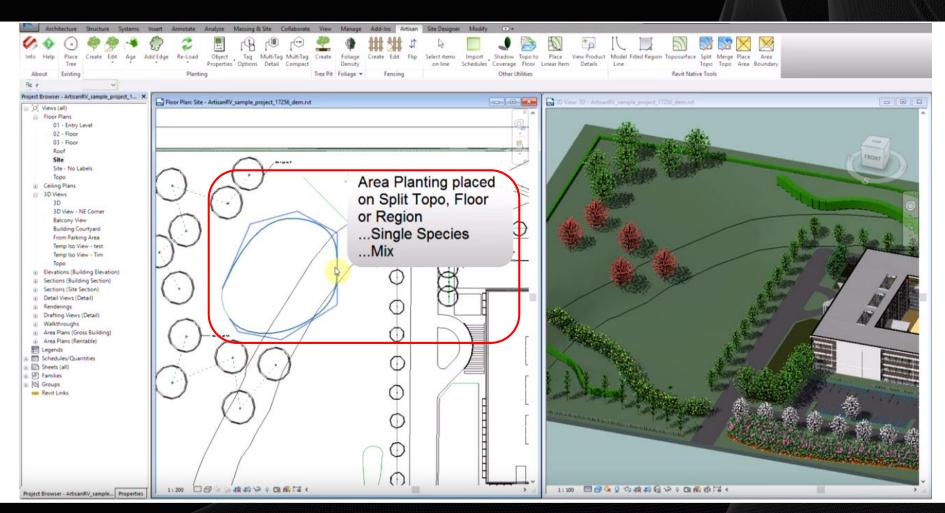


Edit Linear Planting





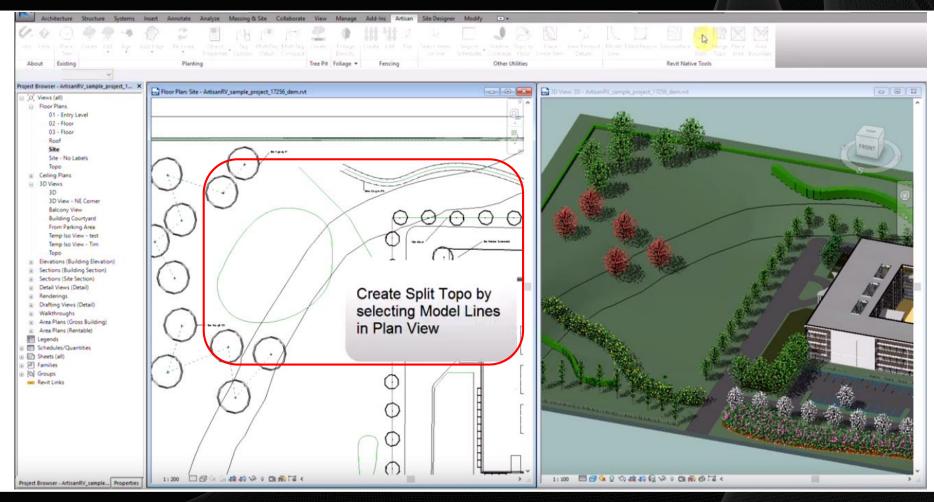
Area Planting



- Area Planting can be placed on Split Topo, Floor or Region
- It can be defined by single or mix species



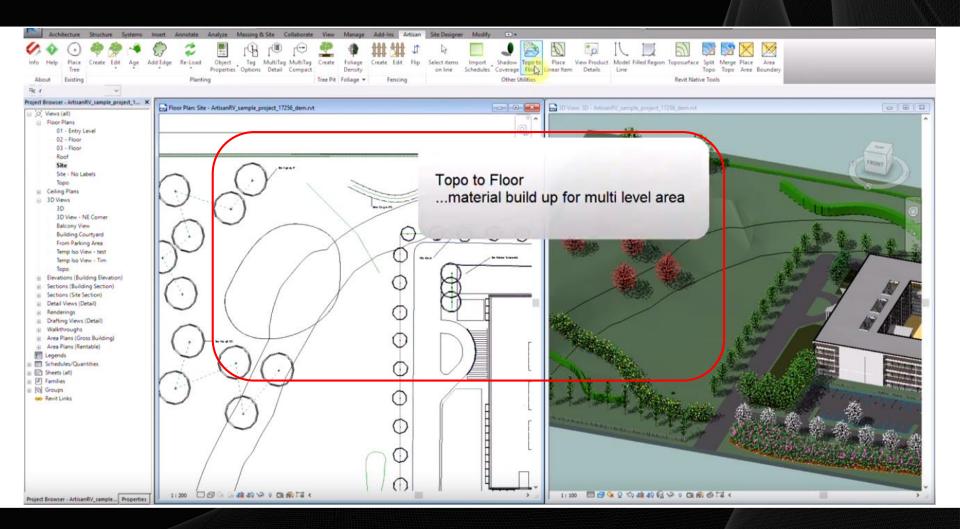
Area Planting – Split Topo



Create split topo

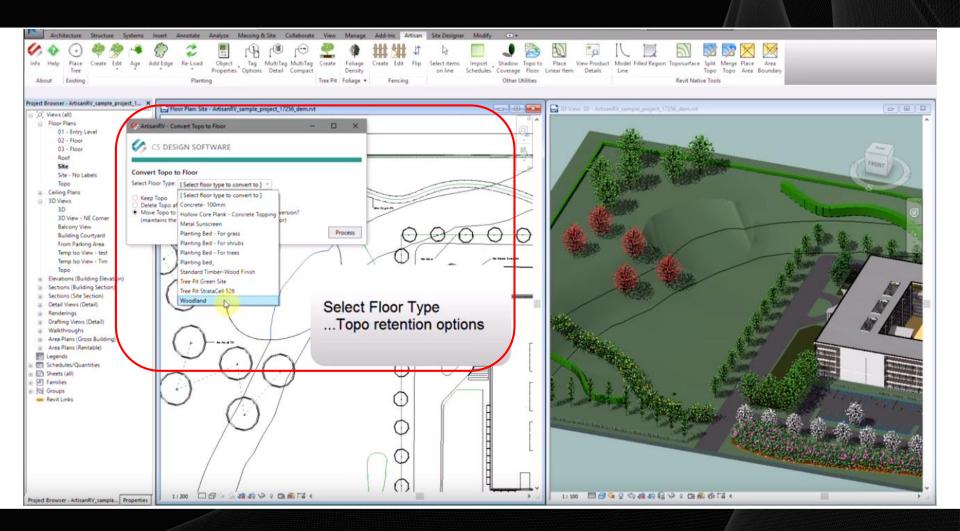


Area Planting – Convert split topo to floor by Artisan

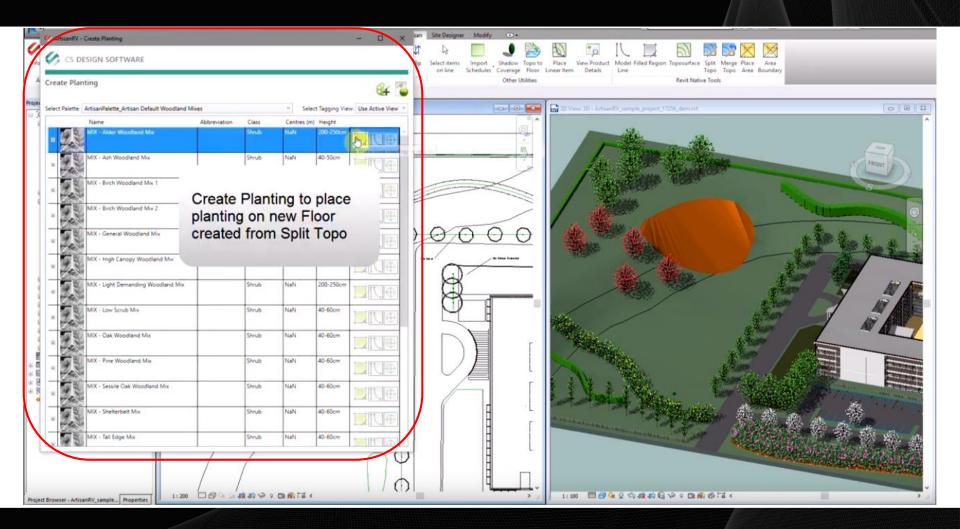




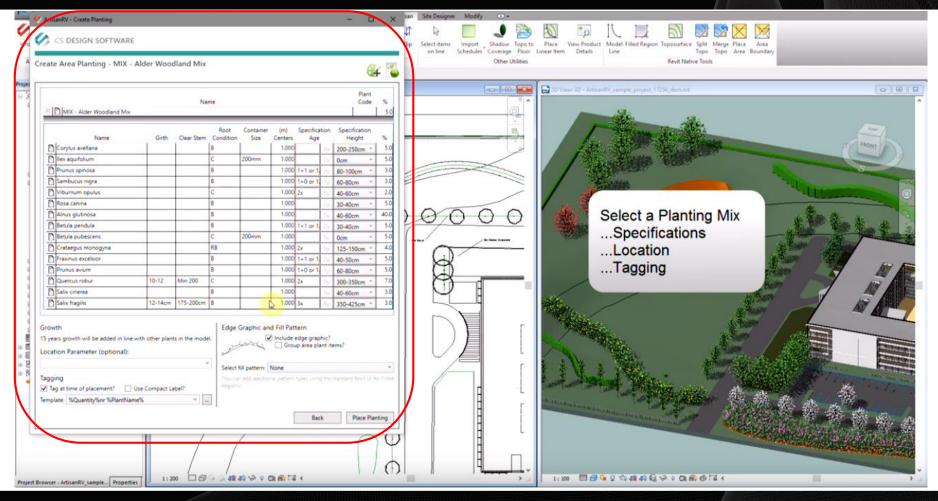
Area Planting – Select the floor into Woodland



Area Planting – Create Planting



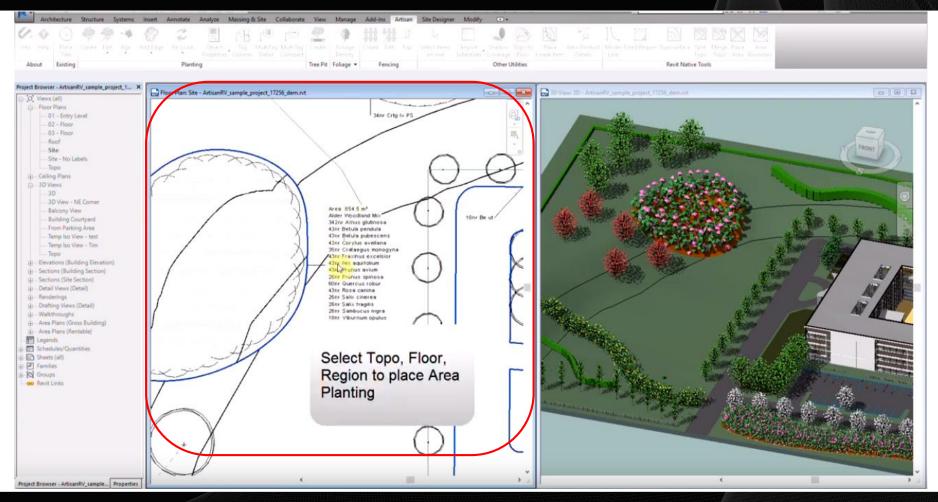
Area Planting – Create Planting



Edit and input information for the planting

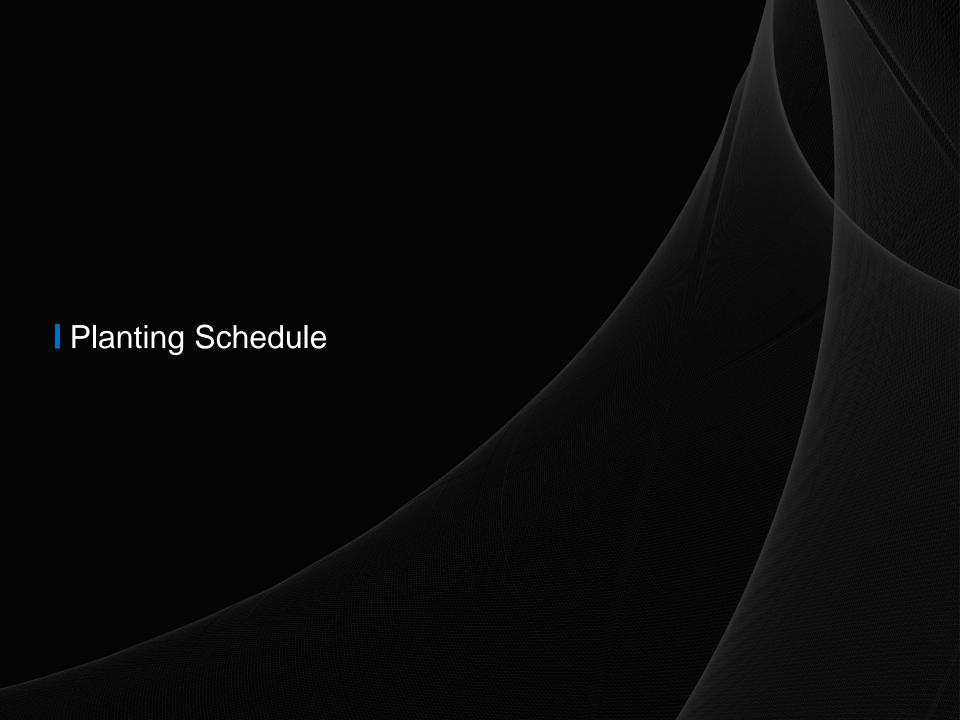


Planting with Information code

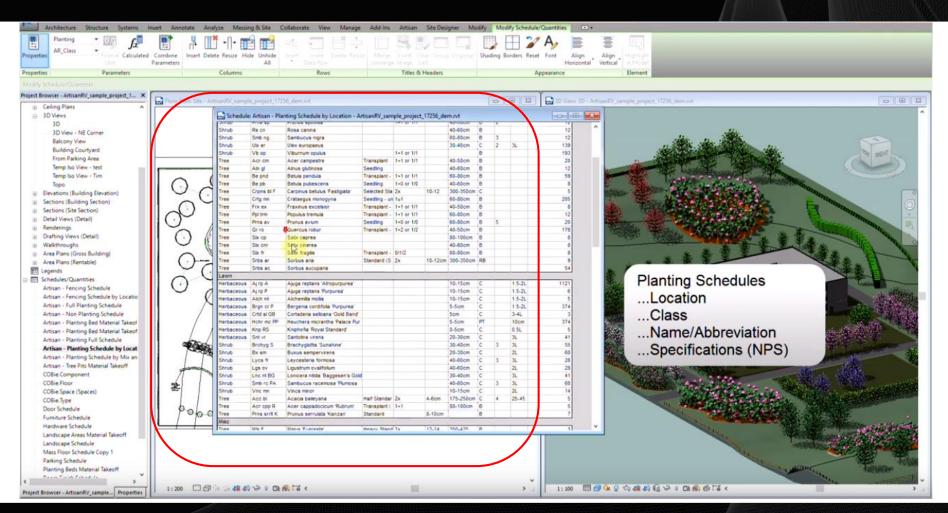


Label can be edited by editing function





Planting Schedule

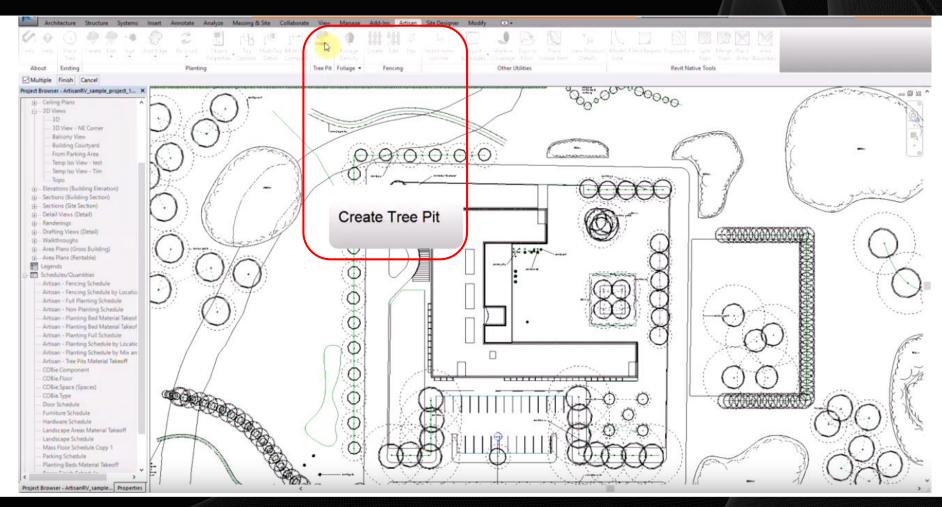


By Location and plant class





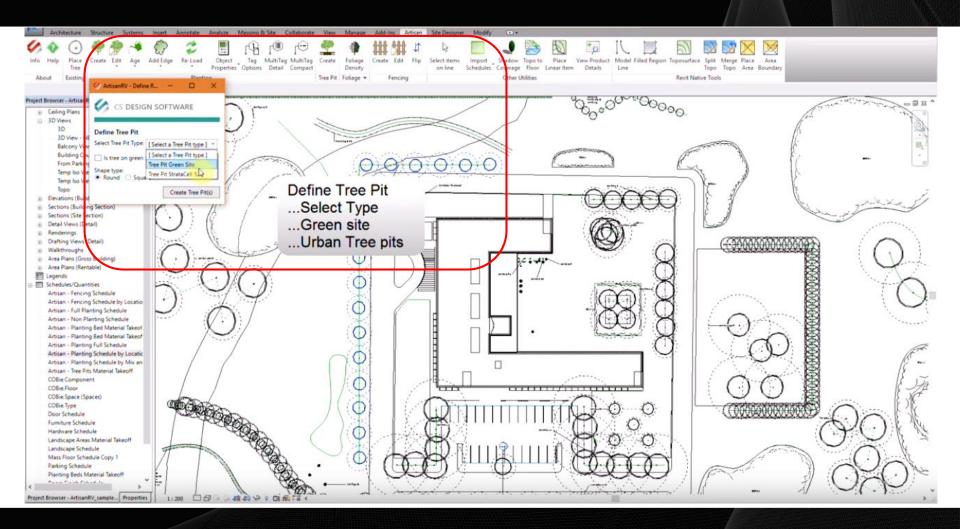
Tree Pit



Create Tree Pit by Artisan



Select Tree Pit Type



Select Tree Pit Type

