

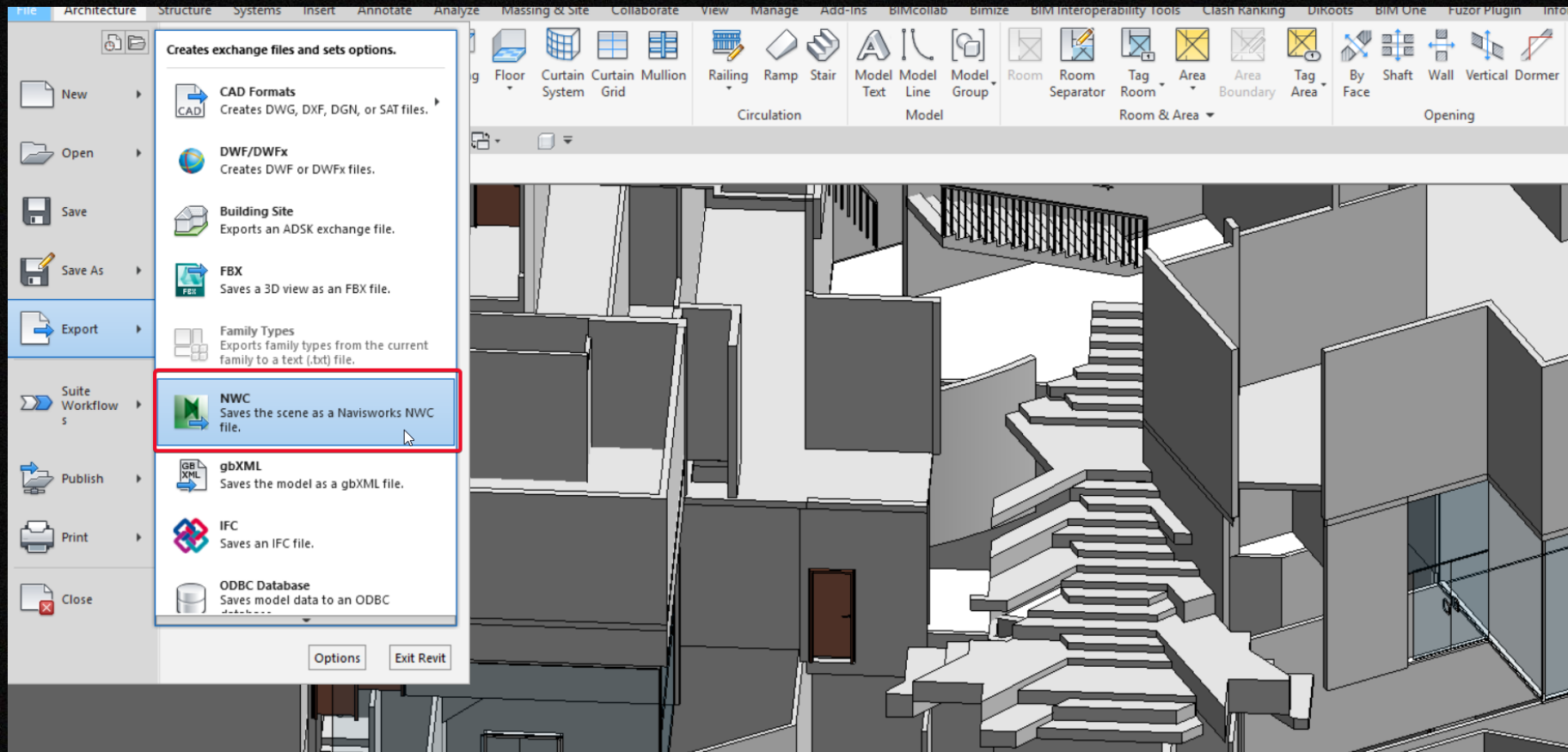


Advanced
Construction
Information
Development Ltd.

C-DRIVE

Product Feature

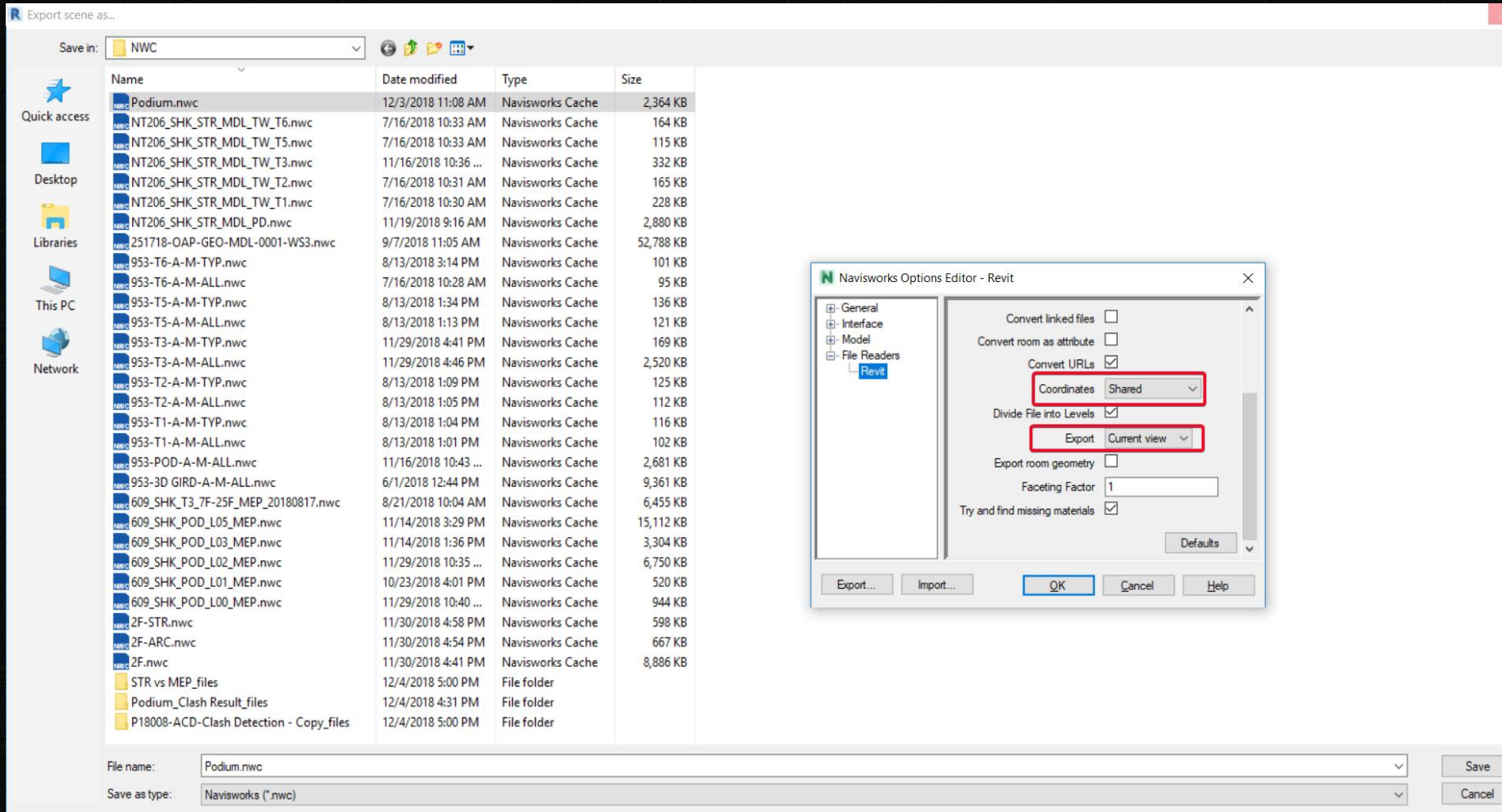
Detection



Export Revit. file to NWC

To implement the clash detection in Navisworks, model file export from Revit file to NWC at the beginning.

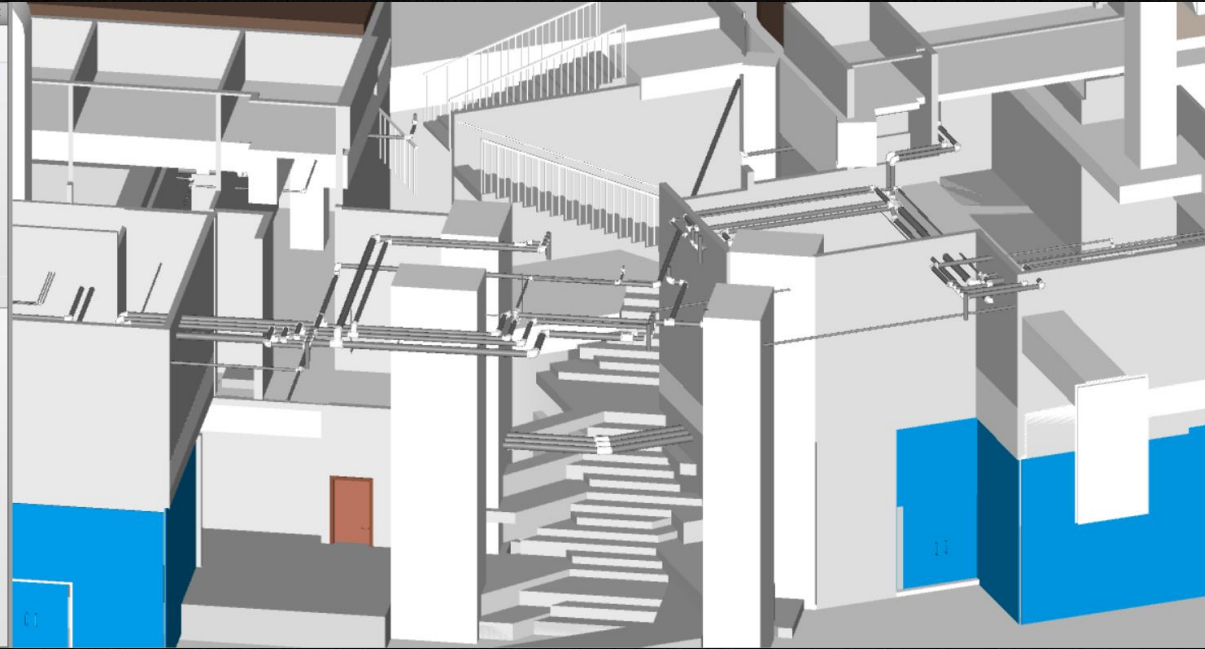
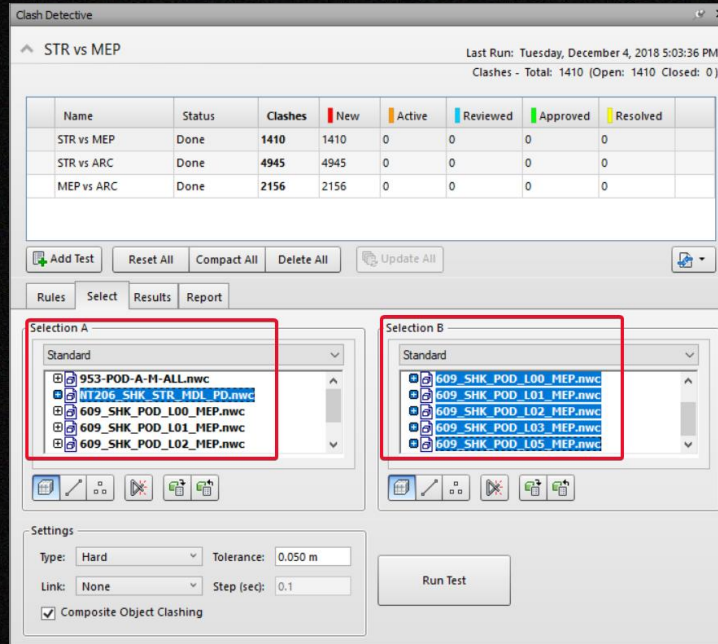
Detection



NWC Setting

To export the model from Revit file to NWC, setting like coordinates and view should be set properly.

Detection



Cross Discipline Clash Detection in Navisworks

Implement Clash detection from different discipline model file in Navisworks. Set the tolerance and the type of clash detection before run the test.

Detection

Clash Detective

STR vs MEP

Last Run: Tuesday, December 4, 2018 5:03:36 PM
Clashes - Total: 1410 (Open: 1410 Closed: 0)

Name	Status	Clashes	New	Active	Reviewed	Approved	Resolved
STR vs MEP	Done	1410	1410	0	0	0	0
STR vs ARC	Done	4945	4945	0	0	0	0
MEP vs ARC	Done	2156	2156	0	0	0	0

Add Test Reset All Compact All Delete All Update All

Rules Select Results Report

New Group Assign Re-run Test

Name	Status	Level	Grid Int...	Found
Clash7	New	2/F +41...	P15-PM(...)	17:03:37 04-12-2018
Clash8	New	G/F +26...	P23(3)-P...	17:03:37 04-12-2018
Clash9	New	G/F	P23-PW(...)	17:03:37 04-12-2018
Clash10	New	2/F +41...	PC(1)-PE...	17:03:37 04-12-2018
Clash11	New	2/F +41...	P2(-3)-PE	17:03:37 04-12-2018
Clash12	New	2/F +41...	P15(9)-P...	17:03:37 04-12-2018
Clash13	New	2/F +41...	P15(11)-...	17:03:37 04-12-2018
Clash14	New	2/F +41...	P2-PH(-1)	17:03:37 04-12-2018
Clash15	New	5/F (2)	P18-PR	17:03:37 04-12-2018

Items

Highlighting

Item 1 Item 2

Use item colors

Highlight all clashes

Isolation

Dim Other Hide Other

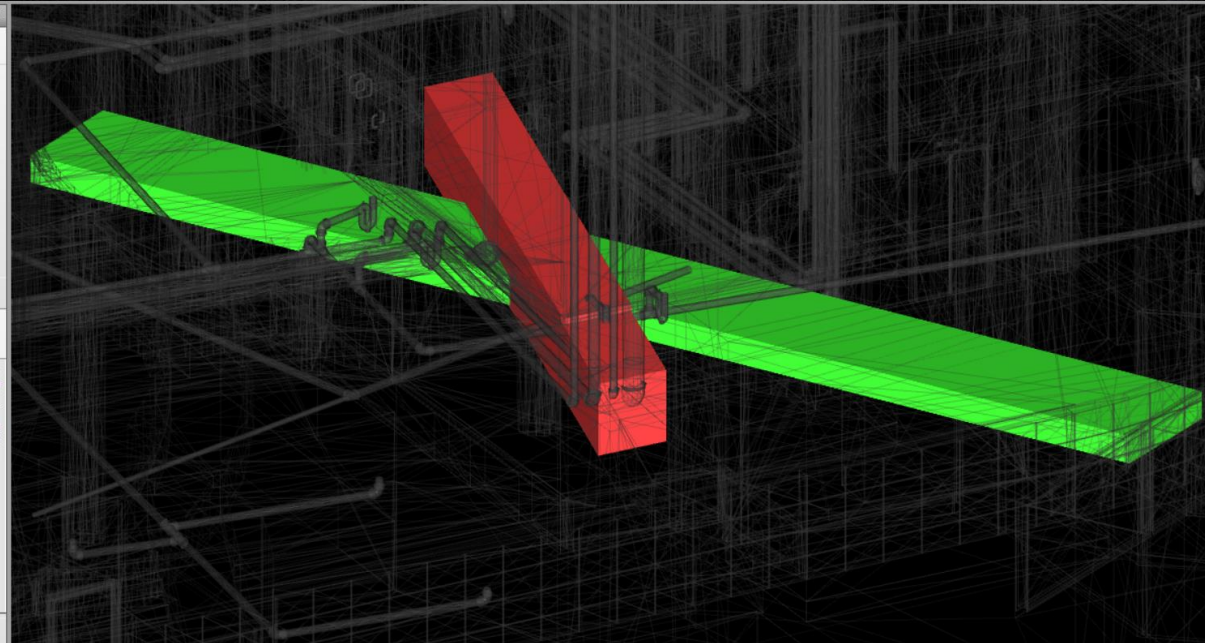
Transparent dimming

Auto reveal

Viewpoint

Auto-update

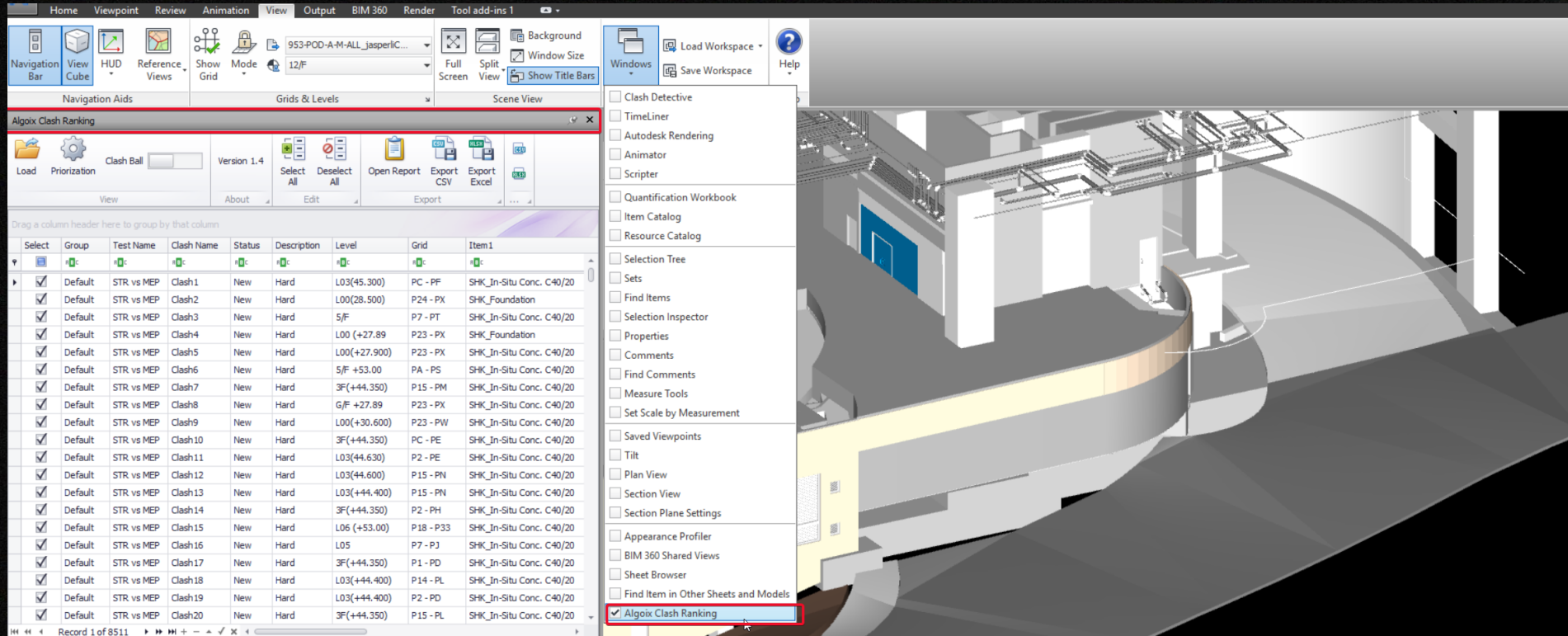
Animate transitions



Clash result in Navisworks

Run the clash result in Naviswork before loading into the Algoix Clash Ranking Plugin.

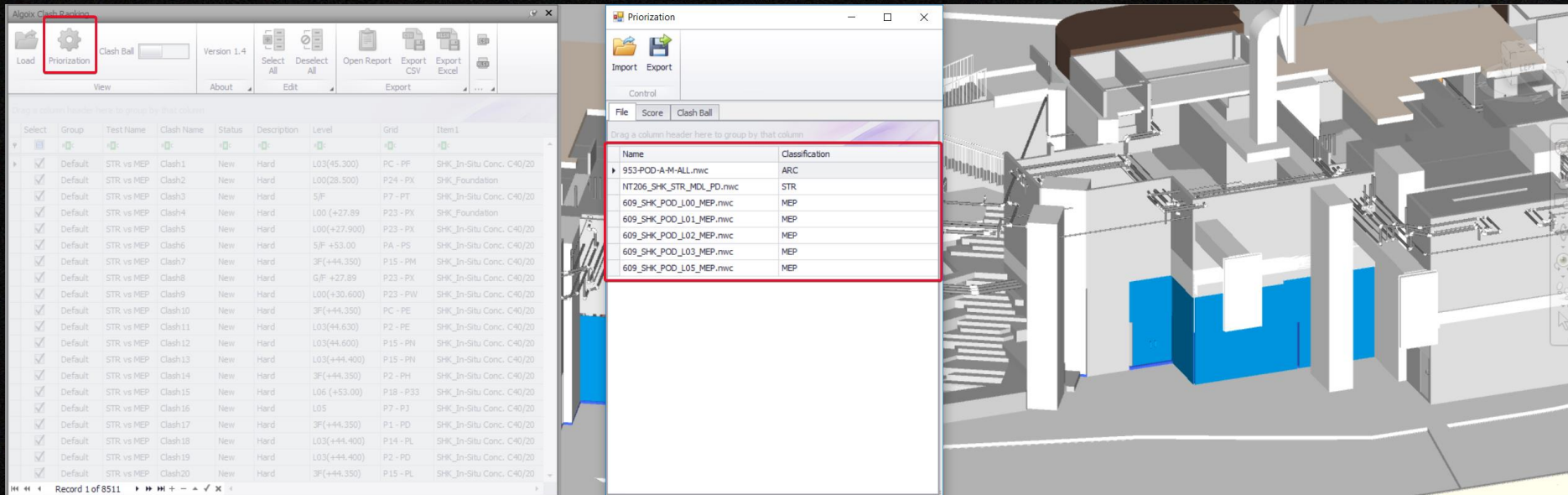
Detection



Algoix Clash Ranking Plugin

Load the Clash Result from Naviswork Clash Detection to Algoix Clash Ranking Plugin to do prioritization and create clash marker.

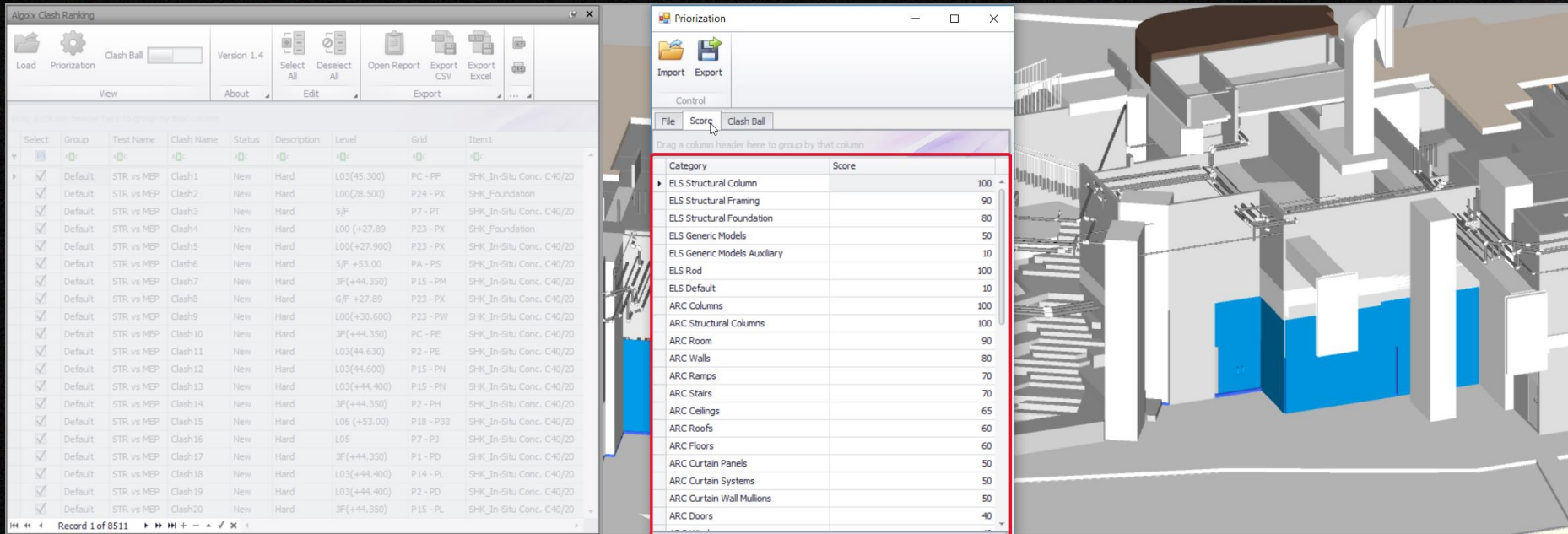
Detection



File Identification

Identify the file for mapping the elements in different model file from different discipline within plugin in Navisworks.

Prioritization



The image displays two software windows from the Algoix suite. The left window, 'Algoix Clash Ranking', shows a table of clash data. The right window, 'Priorization', shows a list of categories and their scores.

Select	Group	Test Name	Clash Name	Status	Description	Level	Grid	Item 1
✓	Default	STR vs MEP	Clash1	New	Hard	L03(+45.300)	PC - PF	SHK_In-Situ Conc. C40/20
✓	Default	STR vs MEP	Clash2	New	Hard	L00(+28.500)	P24 - PX	SHK_Foundation
✓	Default	STR vs MEP	Clash3	New	Hard	S/F	P7 - PT	SHK_In-Situ Conc. C40/20
✓	Default	STR vs MEP	Clash4	New	Hard	L00 (+27.89	P23 - PX	SHK_Foundation
✓	Default	STR vs MEP	Clash5	New	Hard	L00(+27.900)	P23 - PX	SHK_In-Situ Conc. C40/20
✓	Default	STR vs MEP	Clash6	New	Hard	S/F +53.00	PA - PS	SHK_In-Situ Conc. C40/20
✓	Default	STR vs MEP	Clash7	New	Hard	3F(+44.350)	P15 - PM	SHK_In-Situ Conc. C40/20
✓	Default	STR vs MEP	Clash8	New	Hard	G/F +27.89	P23 - PX	SHK_In-Situ Conc. C40/20
✓	Default	STR vs MEP	Clash9	New	Hard	L00(+30.600)	P23 - PW	SHK_In-Situ Conc. C40/20
✓	Default	STR vs MEP	Clash10	New	Hard	3F(+44.350)	PC - PE	SHK_In-Situ Conc. C40/20
✓	Default	STR vs MEP	Clash11	New	Hard	L03(+44.630)	P2 - PE	SHK_In-Situ Conc. C40/20
✓	Default	STR vs MEP	Clash12	New	Hard	L03(+44.600)	P15 - PN	SHK_In-Situ Conc. C40/20
✓	Default	STR vs MEP	Clash13	New	Hard	L03(+44.400)	P15 - PN	SHK_In-Situ Conc. C40/20
✓	Default	STR vs MEP	Clash14	New	Hard	3F(+44.350)	P2 - PH	SHK_In-Situ Conc. C40/20
✓	Default	STR vs MEP	Clash15	New	Hard	L06 (+53.00)	P18 - P33	SHK_In-Situ Conc. C40/20
✓	Default	STR vs MEP	Clash16	New	Hard	L05	P7 - P3	SHK_In-Situ Conc. C40/20
✓	Default	STR vs MEP	Clash17	New	Hard	3F(+44.350)	P1 - PD	SHK_In-Situ Conc. C40/20
✓	Default	STR vs MEP	Clash18	New	Hard	L03(+44.400)	P14 - PL	SHK_In-Situ Conc. C40/20
✓	Default	STR vs MEP	Clash19	New	Hard	L03(+44.400)	P2 - PD	SHK_In-Situ Conc. C40/20
✓	Default	STR vs MEP	Clash20	New	Hard	3F(+44.350)	P15 - PL	SHK_In-Situ Conc. C40/20

Category	Score
ELS Structural Column	100
ELS Structural Framing	90
ELS Structural Foundation	80
ELS Generic Models	50
ELS Generic Models Auxiliary	10
ELS Rod	100
ELS Default	10
ARC Columns	100
ARC Structural Columns	100
ARC Room	90
ARC Walls	80
ARC Ramps	70
ARC Stairs	70
ARC Ceilings	65
ARC Roofs	60
ARC Floors	60
ARC Curtain Panels	50
ARC Curtain Systems	50
ARC Curtain Wall Mullions	50
ARC Doors	40

Scoring

Define the score of element to define the significant of the elements within plugin in Navisworks. The elements of two different element clash each other, the score of the test will become high.

Prioritization

Algoix Clash Ranking

Load Prioritization Clash Ball Version 1.4

Select All Deselect All Open Report Export CSV Export Excel Export CSV Export Excel

View Edit Export Export All

Drag a column header here to group by that column

Select	Group	Test Name	Clash Name	Status	Description	Level	Grid	Item 1	Element Id1	Category Name1	Category 1	Score1	Item2	Element Id2	Category Name2	Category2	Score2	Score
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash1	New	Hard	L03(+45.300)	PC - PF	SHK_In-Situ Conc. C40/20	1155014	Floors	STR Floors	6	Rectangular Duct	1800044	Ducts	MEP Ducts	10	6000
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash2	New	Hard	L00(+28.500)	P24 - PX	SHK_Foundation	1603465	Structural Foundations	STR Structural Foundations	4	STO	540862	Site	MEP Default	1	400
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash3	New	Hard	5/F	P7 - PT	SHK_In-Situ Conc. C40/20	2504518	Floors	STR Floors	6	Rectangular Duct	1713744	Ducts	MEP Ducts	10	6000
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash4	New	Hard	L00 (+27.89	P23 - PX	SHK_Foundation	1605008	Structural Foundations	STR Structural Foundations	4	STO	540862	Site	MEP Default	1	400
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash5	New	Hard	L00(+27.900)	P23 - PX	SHK_In-Situ Conc. C40/20	2437934	Walls	STR Walls	9	STO	540862	Site	MEP Default	1	900
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash6	New	Hard	5/F +53.00	PA - PS	SHK_In-Situ Conc. C40/20	706779	Floors	STR Floors	6	Rectangular Duct	1595781	Ducts	MEP Ducts	10	6000
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash7	New	Hard	3F(+44.350)	P15 - PM	SHK_In-Situ Conc. C40/20	1142151	Structural Framing	STR Framing	8	Rectangular Duct	644685	Ducts	MEP Ducts	10	8000
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash8	New	Hard	G/F +27.89	P23 - PX	SHK_In-Situ Conc. C40/20	2437932	Walls	STR Walls	9	STO	540862	Site	MEP Default	1	900
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash9	New	Hard	L00(+30.600)	P23 - PW	SHK_In-Situ Conc. C40/20	2054966	Floors	STR Floors	6	POW	476038	Site	MEP Default	1	600
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash10	New	Hard	3F(+44.350)	PC - PE	SHK_In-Situ Conc. C40/20	1247628	Structural Framing	STR Framing	8	Rectangular Duct	645106	Ducts	MEP Ducts	10	8000
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash11	New	Hard	L03(+44.630)	P2 - PE	SHK_In-Situ Conc. C40/20	1089819	Structural Framing	STR Framing	8	Rectangular Duct	645269	Ducts	MEP Ducts	1	8000
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash12	New	Hard	L03(+44.600)	P15 - PN	SHK_In-Situ Conc. C40/20	1132134	Structural Framing	STR Framing	8	Rectangular Duct	643392	Ducts	MEP Ducts	10	8000
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash13	New	Hard	L03(+44.400)	P15 - PN	SHK_In-Situ Conc. C40/20	1132134	Structural Framing	STR Framing	8	Rectangular Duct	643125	Ducts	MEP Ducts	10	8000
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash14	New	Hard	3F(+44.350)	P2 - PH	SHK_In-Situ Conc. C40/20	1085736	Structural Framing	STR Framing	8	Rectangular Duct	647492	Ducts	MEP Ducts	10	8000
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash15	New	Hard	L06 (+53.00)	P18 - P33	SHK_In-Situ Conc. C40/20	699245	Structural Framing	STR Framing	8	Rectangular Duct	1595800	Ducts	MEP Ducts	10	8000
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash16	New	Hard	L05	P7 - PJ	SHK_In-Situ Conc. C40/20	2524521	Structural Framing	STR Framing	8	Rectangular Duct	1795394	Ducts	MEP Ducts	10	8000
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash17	New	Hard	3F(+44.350)	P1 - PD	SHK_In-Situ Conc. C40/20	1089999	Structural Framing	STR Framing	8	Rectangular Duct	645203	Ducts	MEP Ducts	10	8000
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash18	New	Hard	L03(+44.400)	P14 - PL	SHK_In-Situ Conc. C40/20	1142568	Structural Framing	STR Framing	8	Rectangular Duct	644466	Ducts	MEP Ducts	10	8000
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash19	New	Hard	L03(+44.400)	P2 - PD	SHK_In-Situ Conc. C40/20	1245725	Structural Framing	STR Framing	8	Rectangular Duct	645203	Ducts	MEP Ducts	10	8000
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash20	New	Hard	3F(+44.350)	P15 - PL	SHK_In-Situ Conc. C40/20	1172802	Structural Framing	STR Framing	8	Rectangular Duct	643922	Ducts	MEP Ducts	10	8000

Record 1 of 8511

Display the Clash Matrix Result in Clash Ranking

Clash matrix result in the plugin shows test name, clash no., status, location of clash, category and element ID of clash items and total score of clash matrix.

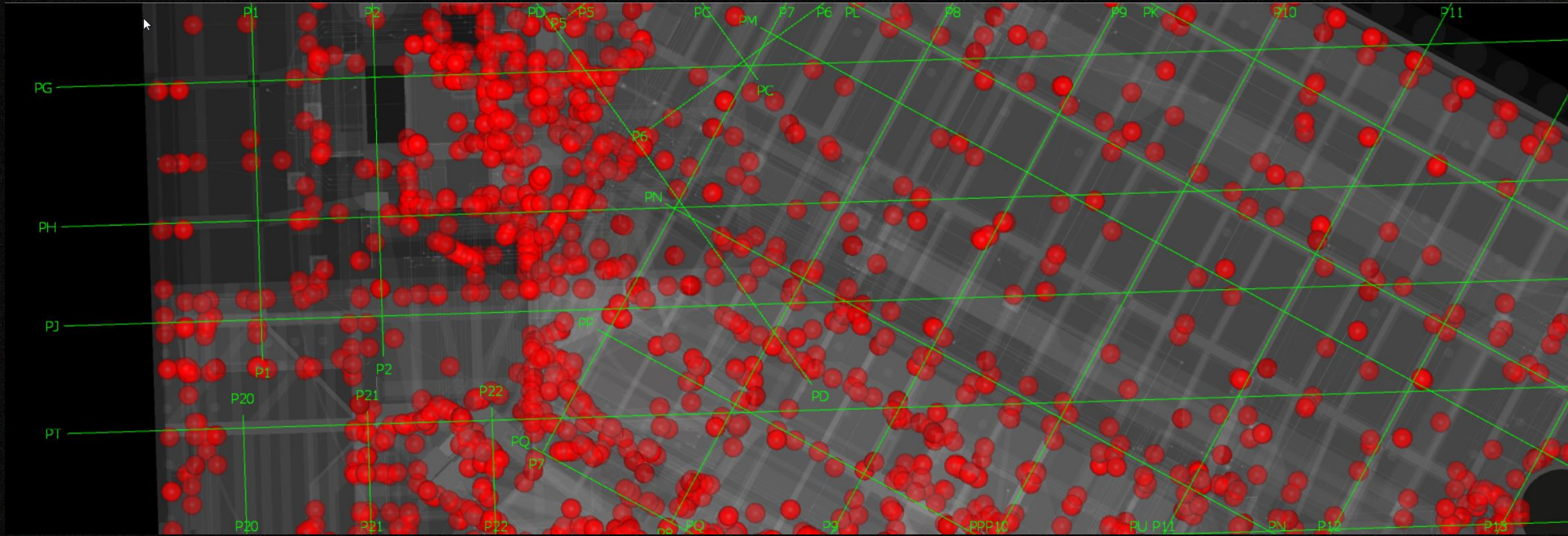
Visualization



CLASH MARKER generated by Algoix Clash Ranking

Clash Marker generated by Clash matrix result and displayed in model that indicated the location of the clash items. Clash Marker in red represented the major clash items in high score. Clash Marker in blue or green ball represented minor clash items.

Visualization



Model in Transparency

Set the model into transparency in Navisworks so that the user can clear identify which level or gridline contains most major clash.

Visualization

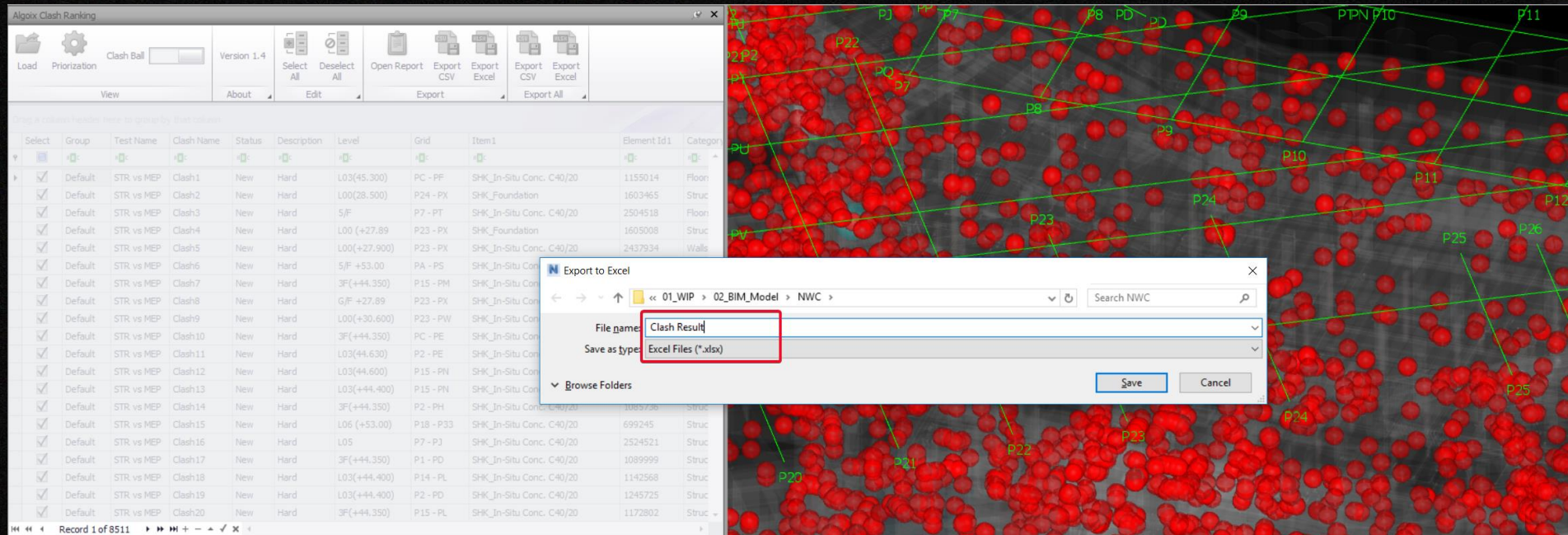
The screenshot displays the Algoix Clash Ranking interface. On the left, a table lists 20 clash items, all marked as 'New' and 'Hard'. The table columns include Select, Group, Test Name, Clash Name, Status, Description, Level, Grid, Item 1, Element Id1, and Category. On the right, a 3D model visualization shows numerous red spheres representing clash points, with green lines connecting them to labels like P1, P2, P3, etc. An 'Export to CSV' dialog box is open in the center, showing the file path '01_WIP > 02_BIM_Model > NWC', the file name 'Clash Result.csv', and the save type 'CSV Files (*.csv)'.

Select	Group	Test Name	Clash Name	Status	Description	Level	Grid	Item 1	Element Id1	Category
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash1	New	Hard	L03(45.300)	PC - PF	SHK_In-Situ Conc. C40/20	1155014	Floor
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash2	New	Hard	L00(28.500)	P24 - PX	SHK_Foundation	1603465	Struc
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash3	New	Hard	5/F	P7 - PT	SHK_In-Situ Conc. C40/20	2504518	Floor
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash4	New	Hard	L00 (+27.89)	P23 - PX	SHK_Foundation	1605008	Struc
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash5	New	Hard	L00(+27.900)	P23 - PX	SHK_In-Situ Conc. C40/20	2437934	Walls
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash6	New	Hard	5/F +53.00	PA - PS	SHK_In-Situ Conc. C40/20	706779	Floor
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash7	New	Hard	3F(+44.350)	P15 - PM	SHK_In-Situ Conc.		
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash8	New	Hard	G/F +27.89	P23 - PX	SHK_In-Situ Conc.		
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash9	New	Hard	L00(+30.600)	P23 - PW	SHK_In-Situ Conc.		
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash10	New	Hard	3F(+44.350)	PC - PE	SHK_In-Situ Conc.		
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash11	New	Hard	L03(44.630)	P2 - PE	SHK_In-Situ Conc.		
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash12	New	Hard	L03(44.600)	P15 - PN	SHK_In-Situ Conc.		
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash13	New	Hard	L03(+44.400)	P15 - PN	SHK_In-Situ Conc.		
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash14	New	Hard	3F(+44.350)	P2 - PH	SHK_In-Situ Conc.		
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash15	New	Hard	L06 (+53.00)	P18 - P33	SHK_In-Situ Conc. C40/20	899245	Struc
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash16	New	Hard	L05	P7 - PJ	SHK_In-Situ Conc. C40/20	2524521	Struc
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash17	New	Hard	3F(+44.350)	P1 - PD	SHK_In-Situ Conc. C40/20	1089999	Struc
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash18	New	Hard	L03(+44.400)	P14 - PL	SHK_In-Situ Conc. C40/20	1142568	Struc
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash19	New	Hard	L03(+44.400)	P2 - PD	SHK_In-Situ Conc. C40/20	1245725	Struc
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash20	New	Hard	3F(+44.350)	P15 - PL	SHK_In-Situ Conc. C40/20	1172802	Struc

Export Clash Result to CSV Format

Transfer the clash result from Navisworks to Revit model file, the clash result generated to CSV File from Algoix Clash Ranking to Revit's plugin.

Visualization



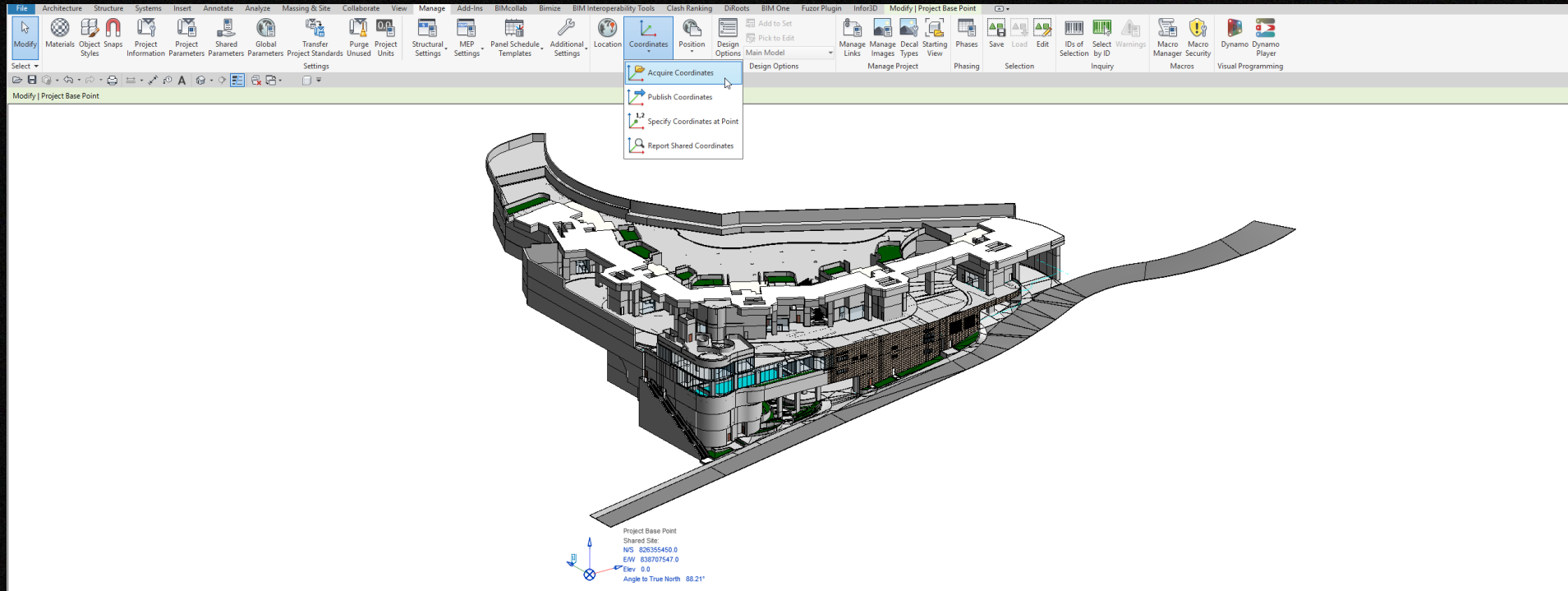
The screenshot displays the Algoix Clash Ranking software interface. On the left, a table lists various clash entries with columns for Select, Group, Test Name, Clash Name, Status, Description, Level, Grid, Item1, Element Id1, and Category. The table shows 20 entries, all marked as 'New' and 'Hard'. On the right, a 3D visualization shows a dense cluster of red spheres representing clashes, with green lines connecting them. An 'Export to Excel' dialog box is open, showing the file name 'Clash Result' and the save type 'Excel Files (*.xlsx)'. The dialog also includes a 'Browse Folders' section and 'Save' and 'Cancel' buttons.

Select	Group	Test Name	Clash Name	Status	Description	Level	Grid	Item1	Element Id1	Category
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash1	New	Hard	L03(+45.300)	PC - PP	SHK_In-Situ Conc. C40/20	1155014	Floor
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash2	New	Hard	L00(+28.500)	P24 - PX	SHK_Foundation	1603465	Struc
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash3	New	Hard	5/F	P7 - PT	SHK_In-Situ Conc. C40/20	2504518	Floor
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash4	New	Hard	L00 (+27.89	P23 - PX	SHK_Foundation	1605008	Struc
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash5	New	Hard	L00(+27.900)	P23 - PX	SHK_In-Situ Conc. C40/20	2437934	Walls
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash6	New	Hard	5/F +53.00	PA - PS	SHK_In-Situ Conc. C40/20		
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash7	New	Hard	3F(+44.350)	P15 - PM	SHK_In-Situ Conc. C40/20		
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash8	New	Hard	6/F +27.89	P23 - PX	SHK_In-Situ Conc. C40/20		
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash9	New	Hard	L00(+30.600)	P23 - PW	SHK_In-Situ Conc. C40/20		
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash10	New	Hard	3F(+44.350)	PC - PE	SHK_In-Situ Conc. C40/20		
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash11	New	Hard	L03(+44.630)	P2 - PE	SHK_In-Situ Conc. C40/20		
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash12	New	Hard	L03(+44.600)	P15 - PN	SHK_In-Situ Conc. C40/20		
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash13	New	Hard	L03(+44.400)	P15 - PN	SHK_In-Situ Conc. C40/20		
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash14	New	Hard	3F(+44.350)	P2 - PH	SHK_In-Situ Conc. C40/20	1089736	Struc
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash15	New	Hard	L06 (+53.00)	P18 - P33	SHK_In-Situ Conc. C40/20	699245	Struc
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash16	New	Hard	L05	P7 - P3	SHK_In-Situ Conc. C40/20	2524521	Struc
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash17	New	Hard	3F(+44.350)	P1 - PD	SHK_In-Situ Conc. C40/20	1089999	Struc
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash18	New	Hard	L03(+44.400)	P14 - PL	SHK_In-Situ Conc. C40/20	1142568	Struc
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash19	New	Hard	L03(+44.400)	P2 - PD	SHK_In-Situ Conc. C40/20	1245725	Struc
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash20	New	Hard	3F(+44.350)	P15 - PL	SHK_In-Situ Conc. C40/20	1172802	Struc

Export Clash Result to Excel Format

Besides CSV. File, clash result can be export to excel format for analysis as well.

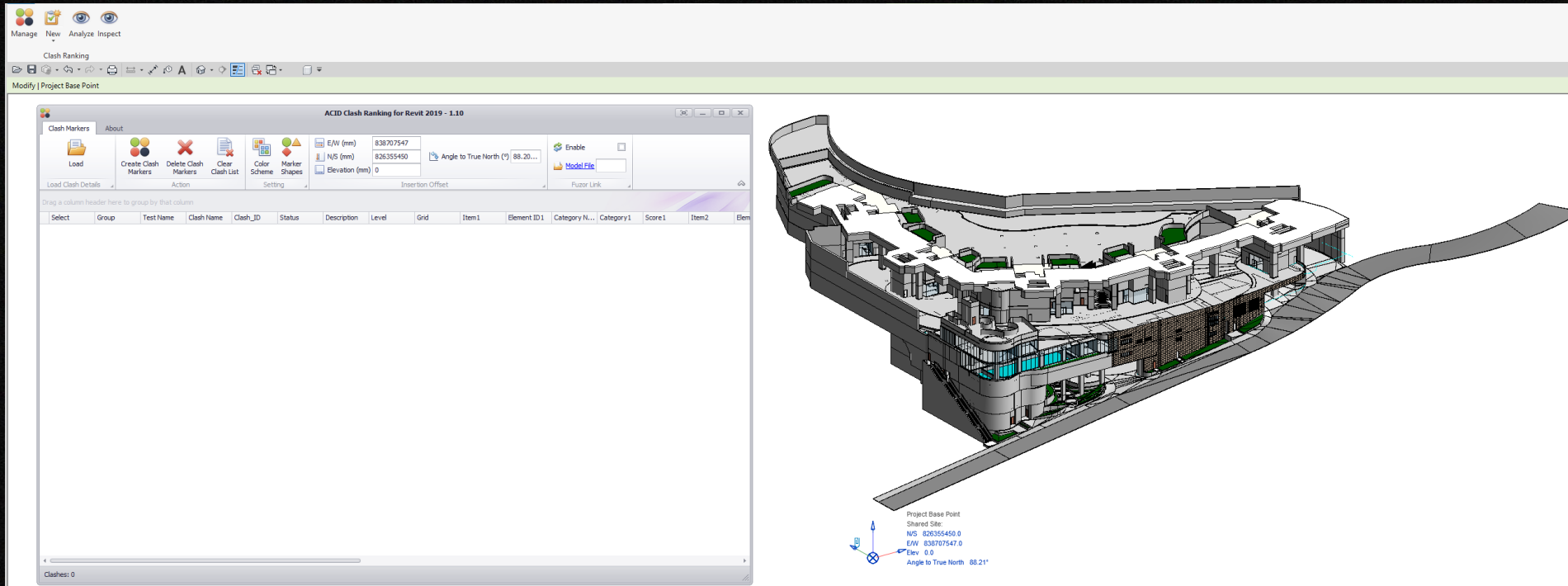
Visualization



Set up Correct Coordinate in New Revit file

Before generating the clash ball to Revit file, a new file should be set up with correct coordinate for the model. Link the model into new file, coordinate of new file acquired the coordinate of that model file.

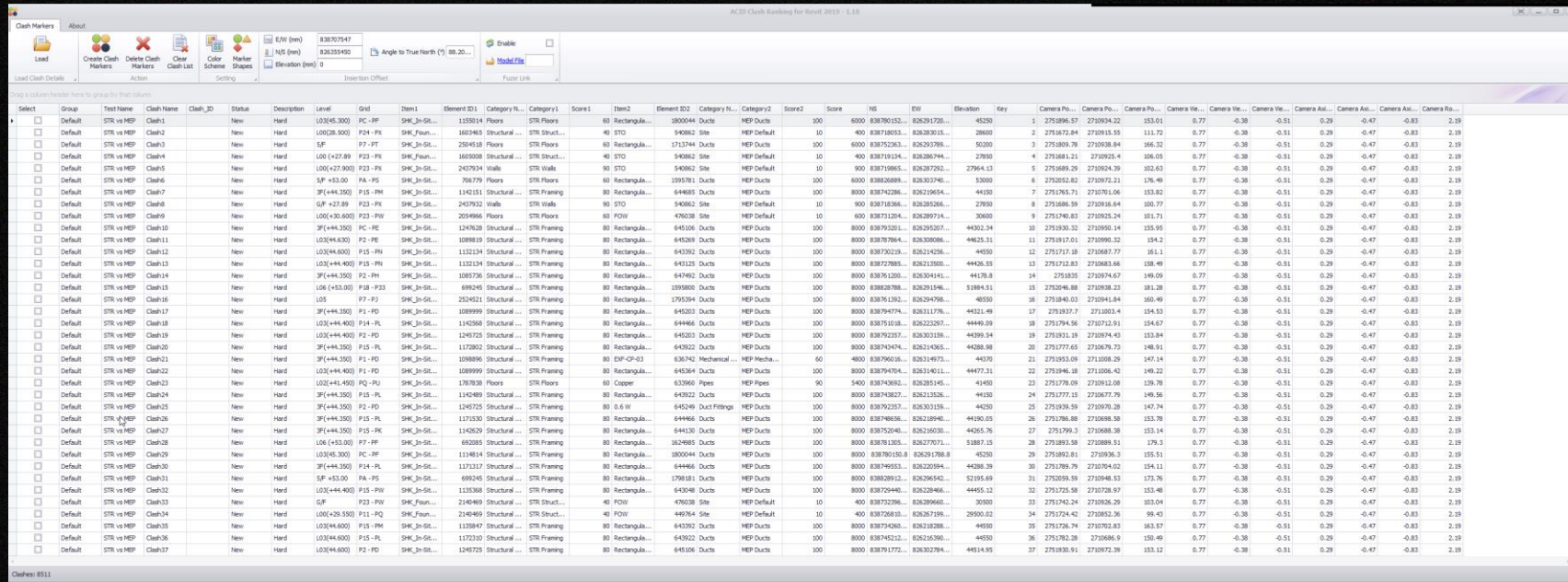
Visualization



Set up Correct Coordinate in New Revit file

Before generating the clash ball to Revit file, a new file should be set up with correct coordinate for the model. Link the model into new file, coordinate of new file acquired the coordinate of that model file.

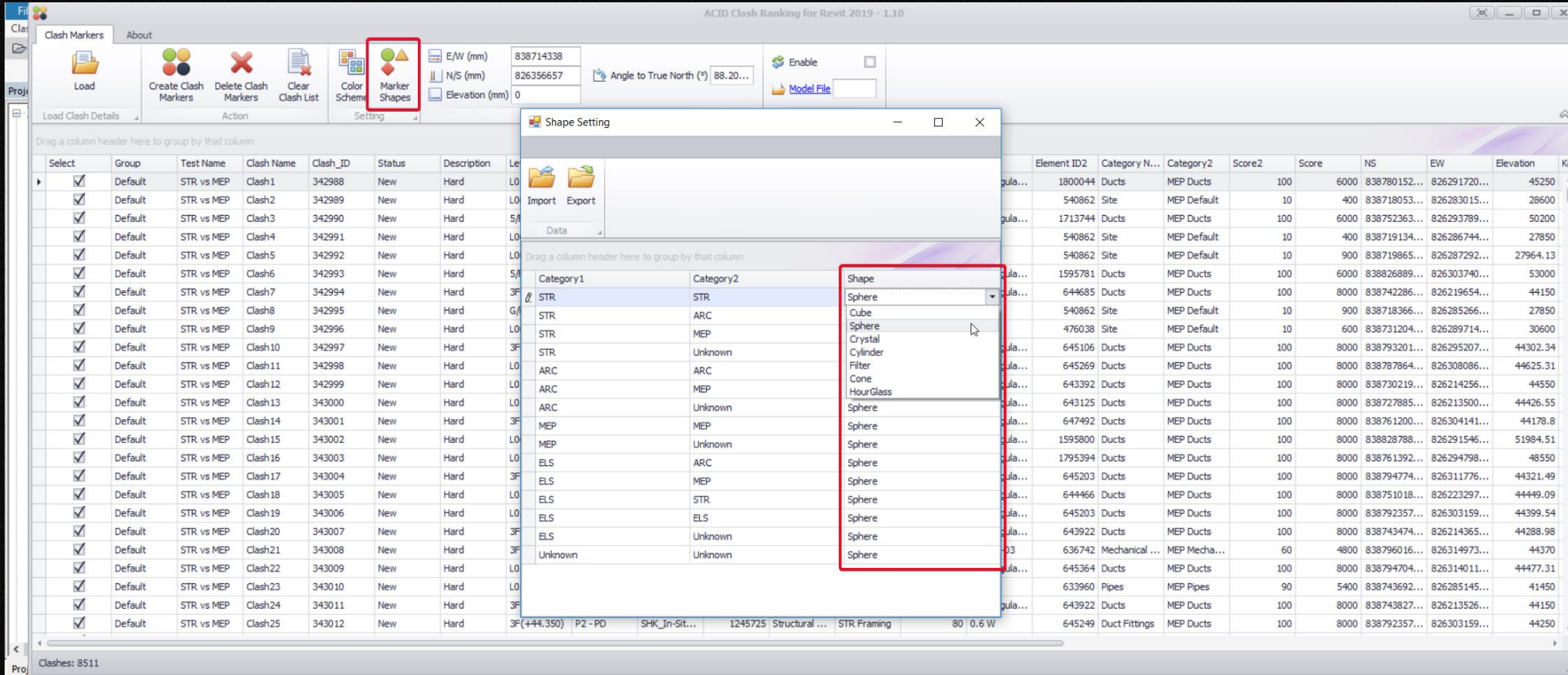
Visualization



Clash result from Navisworks to Revit file

Load the clash result by CSV that generated from Navisworks, clash result can be displayed in Revit clash ranking plugin as well.

Visualization



Clash Marker Shape Setting

Shape setting can be set as different shape including sphere, cube, crystal, cylinder, filter, cone and hourglass. Different clash matrix can be represented by different shape.

Visualization

ACID Clash Ranking for Revit 2019 - 1.10

Clash Markers About

Load Clash Details Action Setting Insertion Offset Fuzor Link

Load Create Clash Markers Delete Clash Markers Clear Clash List Color Scheme Marker Shapes

E/W (mm) 838714338
N/S (mm) 826356657
Angle to True North (°) 88.20...
Elevation (mm) 0

Enable Model File

Drag a column header here to group by that column

Select	Group	Test Name	Clash Name	Clash_ID	Status	Description	Level
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash1	342988	New	Hard	L03(45...
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash2	342989	New	Hard	L00(28...
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash3	342990	New	Hard	5/F
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash4	342991	New	Hard	L00 (+2...
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash5	342992	New	Hard	L00(+22...
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash6	342993	New	Hard	5/F +53...
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash7	342994	New	Hard	3F(+44...
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash8	342995	New	Hard	G/F +27...
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash9	342996	New	Hard	L00(+30...
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash10	342997	New	Hard	3F(+44...
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash11	342998	New	Hard	L03(44...
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash12	342999	New	Hard	L03(44...
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash13	343000	New	Hard	L03(+44...
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash14	343001	New	Hard	3F(+44...
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash15	343002	New	Hard	L06 (+5...
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash16	343003	New	Hard	L05
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash17	343004	New	Hard	3F(+44...
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash18	343005	New	Hard	L03(+44...
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash19	343006	New	Hard	L03(+44...
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash20	343007	New	Hard	3F(+44...
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash21	343008	New	Hard	3F(+44...
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash22	343009	New	Hard	L03(+44...
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash23	343010	New	Hard	L02(+41...
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash24	343011	New	Hard	3F(+44.350)
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash25	343012	New	Hard	3F(+44.350)

SettingForm

Import Export

Max Min Radius Material

10000	7200	2	Red-Clash
7199	5000	1.5	Red-Clash
5000	0	1	Red-Clash

Clashes: 8511

Clash Marker Size, Color and Score in Revit (Default –red clash ball and sphere)

Size, material color and score range of Clash Marker can be defined again in Clash Ranking for Revit.

Visualization

ACID Clash Ranking for Revit 2019 - 1.10

Clash Markers

Load Clash Details | Action | Setting

Drag a column header here to group by that column

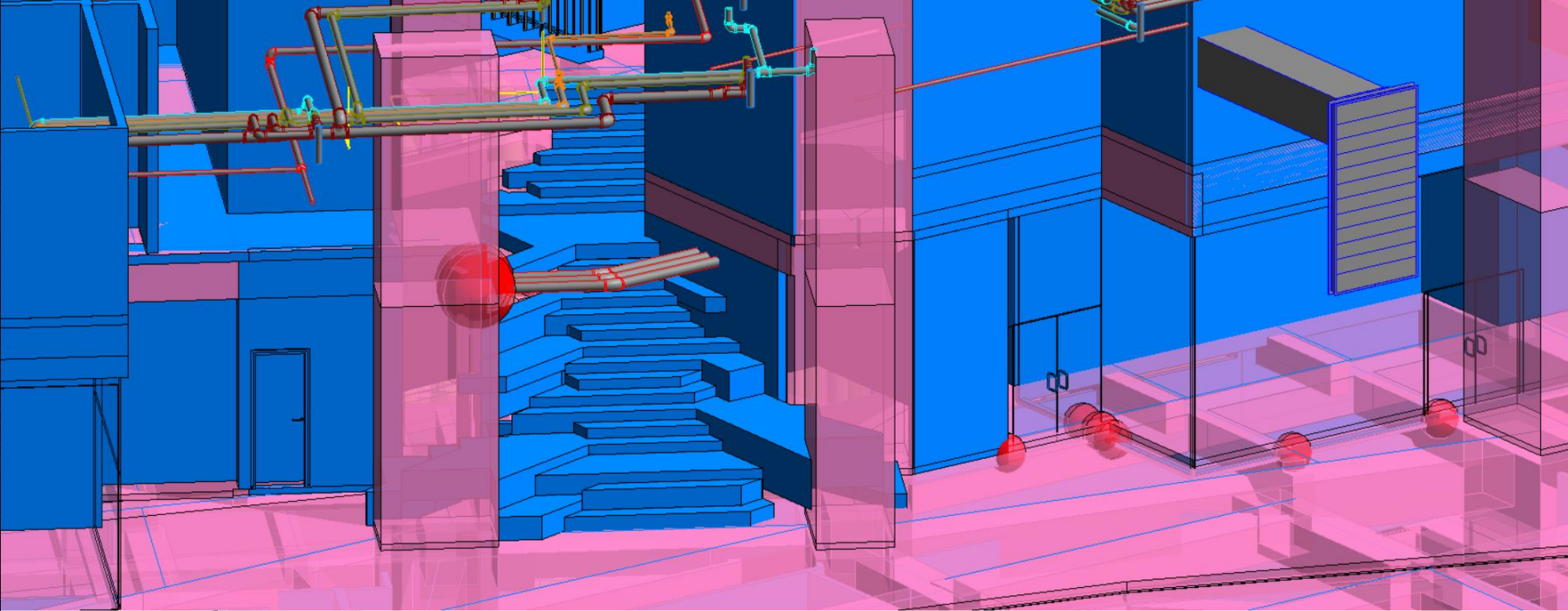
Select	Group	Test Name	Clash Name	Clash_ID	Status	Description	Level	Grid	Item1	Element ID1	Category
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash1	342988	New	Hard	L03(45.300)	PC - PF	SHK_In-Sit...	1155014	Floors
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash2	342989	New	Hard	L00(28.500)	P24 - PX	SHK_Foun...	1603465	Struct.
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash3	342990	New	Hard	5/F	P7 - PT	SHK_In-Sit...	2504518	Floors
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash4	342991	New	Hard	L00 (+27.89	P23 - PX	SHK_Foun...	1605008	Struct.
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash5	342992	New	Hard	L00(+27.900)	P23 - PX	SHK_In-Sit...	2437934	Walls
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash6	342993	New	Hard	5/F +53.00	PA - PS	SHK_In-Sit...	706779	Floors
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash7	342994	New	Hard	3F(+44.350)	P15 - PM	SHK_In-Sit...	1142151	Struct.
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash8				-27.89	P23 - PX	SHK_In-Sit...	2437932	Walls
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash9				+30.600	P23 - PW	SHK_In-Sit...	2054966	Floors
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash10				44.350	PC - PE	SHK_In-Sit...	1247628	Struct.
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash11	342998	New	Hard	L03(44.300)	P2 - PE	SHK_In-Sit...	1089819	Struct.
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash12	342999	New	Hard	L03(44.600)	P15 - PN	SHK_In-Sit...	1132134	Struct.
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash13	343000	New	Hard	L03(+44.400)	P15 - PN	SHK_In-Sit...	1132134	Struct.
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash14	343001	New	Hard	3F(+44.350)	P2 - PH	SHK_In-Sit...	1085736	Struct.
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash15	343002	New	Hard	L06 (+53.00)	P18 - P33	SHK_In-Sit...	699245	Struct.
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash16	343003	New	Hard	L05	P7 - PJ	SHK_In-Sit...	2524521	Struct.
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash17	343004	New	Hard	3F(+44.350)	P1 - PD	SHK_In-Sit...	1089999	Struct.
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash18	343005	New	Hard	L03(+44.400)	P14 - PL	SHK_In-Sit...	1142568	Struct.
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash19	343006	New	Hard	L03(+44.400)	P2 - PD	SHK_In-Sit...	1245725	Struct.
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash20	343007	New	Hard	3F(+44.350)	P15 - PL	SHK_In-Sit...	1172802	Struct.
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash21	343008	New	Hard	3F(+44.350)	P1 - PD	SHK_In-Sit...	1098896	Struct.
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash22	343009	New	Hard	L03(+44.400)	P1 - PD	SHK_In-Sit...	1089999	Struct.
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash23	343010	New	Hard	L02(+41.450)	PQ - PU	SHK_In-Sit...	1787838	Floors
<input checked="" type="checkbox"/>	Default	STR vs MEP	Clash24	343011	New	Hard	3F(+44.350)	P15 - PL	SHK_In-Sit...	1142489	Struct.

Creating Clash Markers...
1423/8511

Clash Marker production process

Press “Create Clash Marker” button, Clash marker will be generated.

Visualization

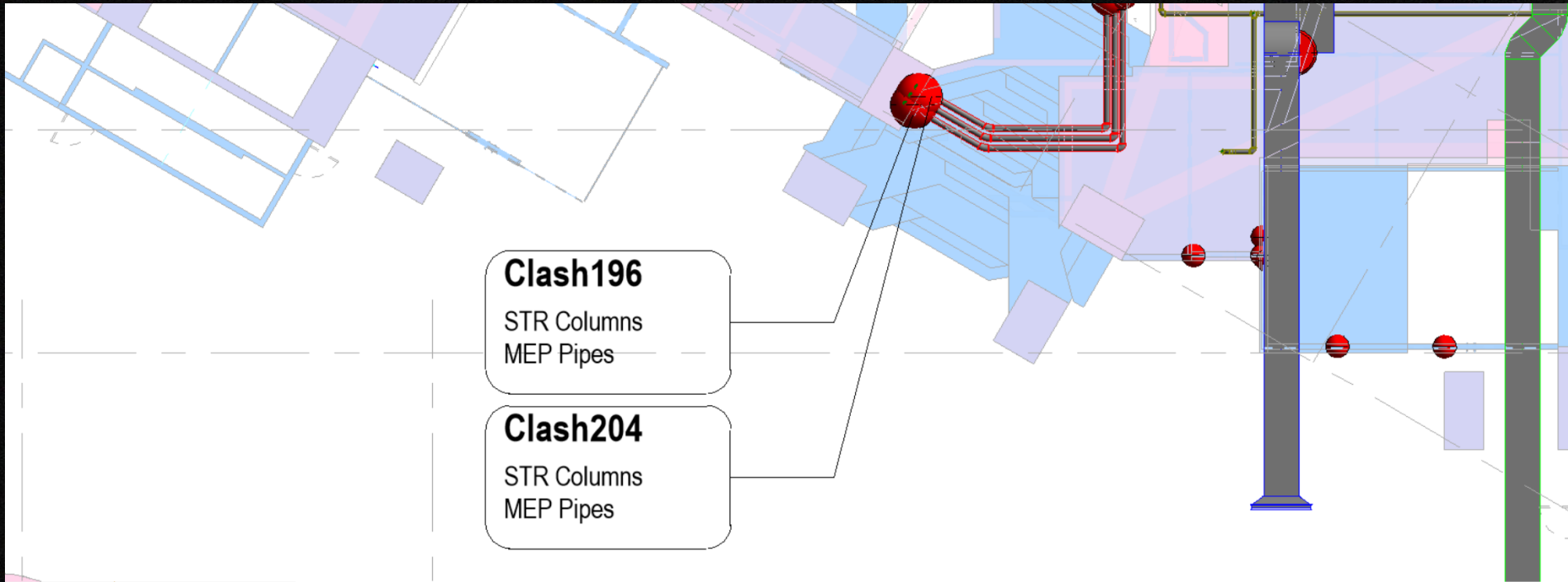


Model identified by color

After generated all the clash marker, link all discipline Revit Model into the new file including ARC, STR, MEP and ELS model file and use different color to identify the model.

Sushi drawing and clash tagging (automate 360 degree tagging around the clash ball in the white area)
To separate the model by different view, sushi drawing is produced by separating the model into different level. Tagging the clash marker so that the clash items can be show immediately.

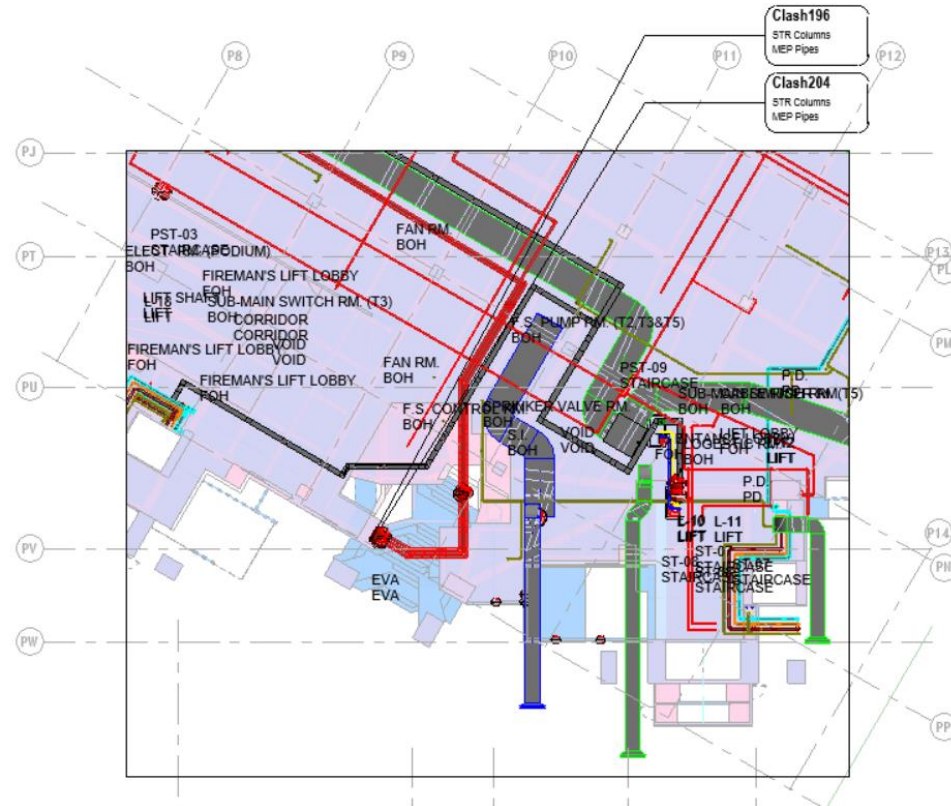
Reporting



Floor Plan

In order to let all the parties know the location of clash, floor plan with gridline can be shown the location of clash.

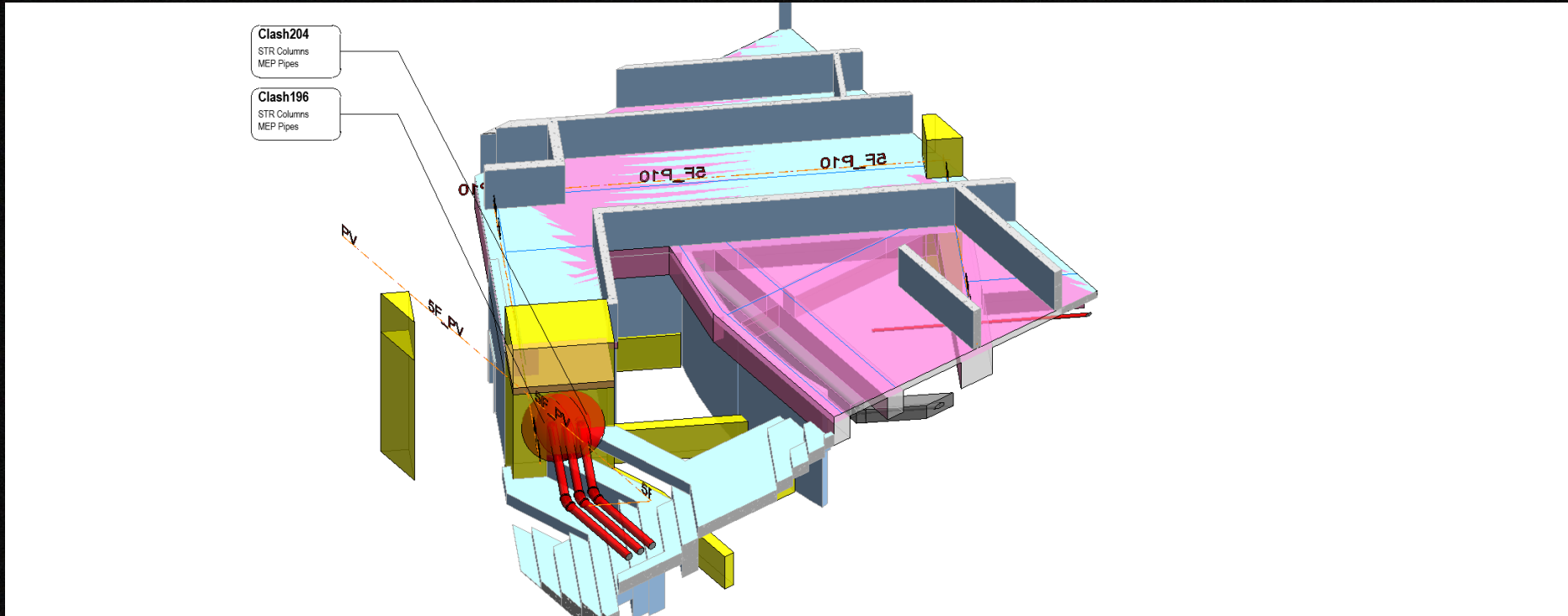
Reporting



Part Plan

Part plan with room tag can carry out the clash in which room.

Reporting



3D View of clash

In the 3D view of clash, 3D gridline can show the location of clash. Tag can show the clash number and clash items in the view.

Reporting

BCM18 - STR vs MEP											
Test Name	Clash Name	Category 1	Category 2	Category Name 1	Category Name 2	Level	Grid	Designer Attention	Issue	Designer Follow Up Action	Action Party to Amend
STR vs MEP	Clash2	STR Framing	MEP Ducts	Structural Framing	Ducts	5/F +53.00	T2.F - T2.3	Y			
STR vs MEP	Clash3	STR Framing	MEP Ducts	Structural Framing	Ducts	L03(45.300)	PC - PF	Y			
STR vs MEP	Clash4	STR Framing	MEP Ducts	Structural Framing	Ducts	L05	P12 - PN	Y			
STR vs MEP	Clash5	STR Framing	MEP Ducts	Structural Framing	Ducts	5/F	P7 - PP	Y			
STR vs MEP	Clash6	STR Framing	MEP Ducts	Structural Framing	Duct Fittings	L05	P17 - P33	Y			
STR vs MEP	Clash7	STR Framing	MEP Ducts	Structural Framing	Ducts	5/F	T1.E - T1.1	Y			
STR vs MEP	Clash9	STR Framing	MEP Ducts	Structural Framing	Ducts	5/F	T1.D - T1.3	Y			
STR vs MEP	Clash10	STR Framing	MEP Ducts	Structural Framing	Ducts	L05	PN - PV	Y			
STR vs MEP	Clash14	STR Floors	MEP Ducts	Floors	Ducts	5/F	P7 - PP	Y			
STR vs MEP	Clash55	STR Framing	MEP Ducts	Structural Framing	Ducts	L05	P2 - PG	Y			
STR vs MEP	Clash100	STR Framing	MEP Ducts	Structural Framing	Duct Fittings	5/F	P7 - PP	Y			
STR vs MEP	Clash111	STR Framing	MEP Ducts	Structural Framing	Ducts	L05	P12 - PV	Y			
STR vs MEP	Clash159	STR Framing	MEP Ducts	Structural Framing	Duct Fittings	L05	PP - PV	Y			
STR vs MEP	Clash196	STR Columns	MEP Pipes	Structural Columns	Pipes	L05	PQ - PV	Y			
STR vs MEP	Clash204	STR Columns	MEP Pipes	Structural Columns	Pipes	L05	PQ - PV	Y			
STR vs MEP	Clash209	STR Framing	MEP Ducts	Structural Framing	Ducts	5/F	PD - PG	Y			

STR vs MEP: 16

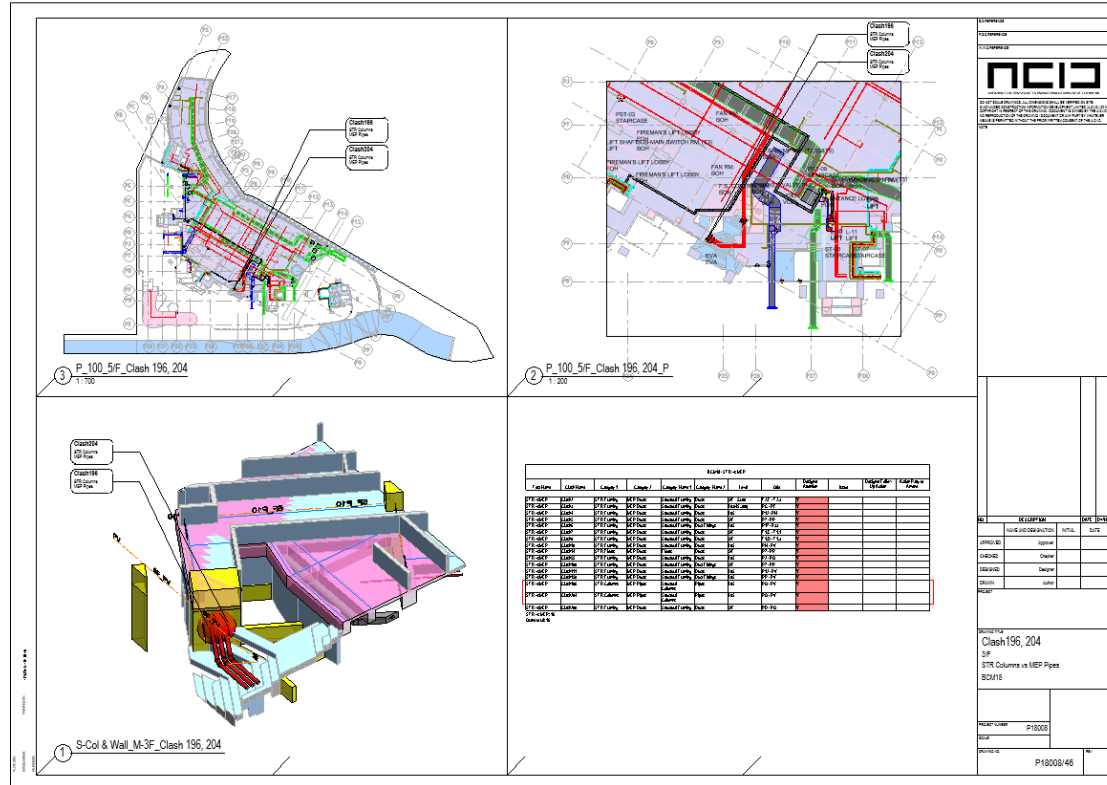
Grand total: 16

Generic model Schedule

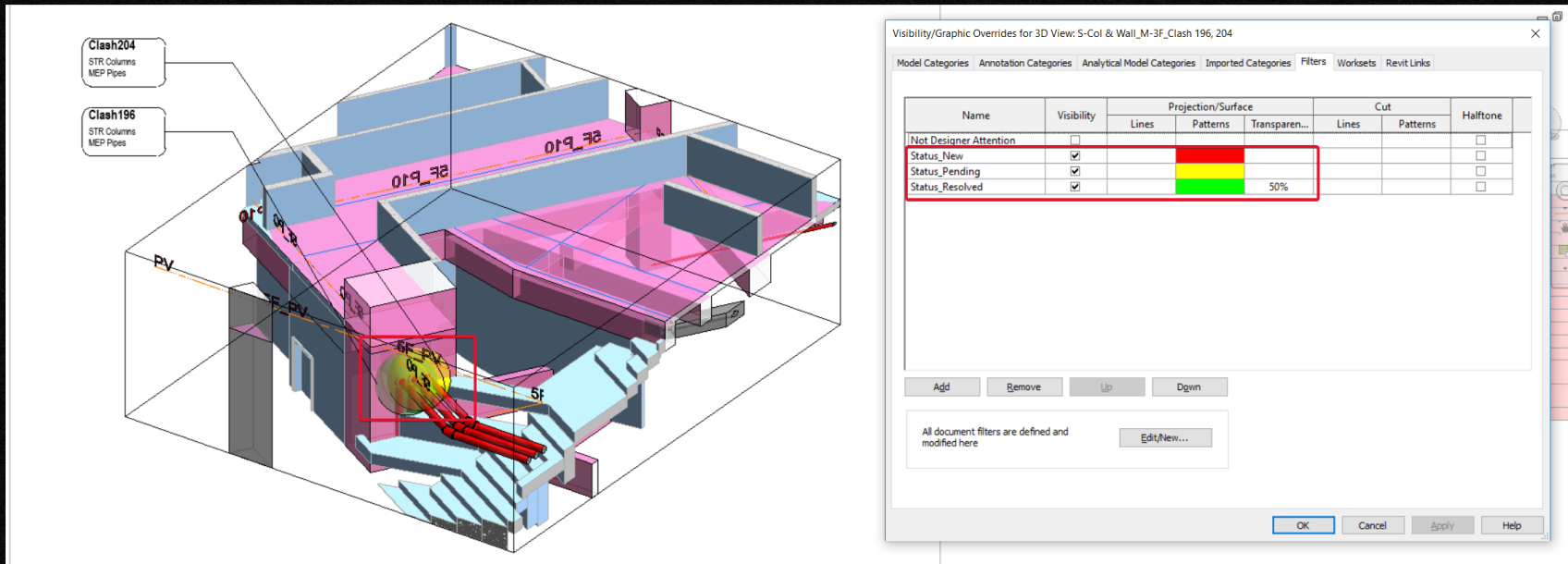
As Clash Marker is generic model, generic model schedule shows the clash number, category and locations of the clash. The schedule can be uploaded to the platform for parties to fill in feed back as well.

Clash Reporting

Sheet is divided into four parts including floor plan, part plan, 3D view and generic model schedule. Clash location can be shown clearly in the report.



Elimination



Clash Elimination

Change the status of clash and resolved the clash

THANK YOU !

