Here is an attempt to compare the CADWorx with Revit from a structural designer's perspective. More emphasis is put on the ability to prepare drawings than on modelling itself.
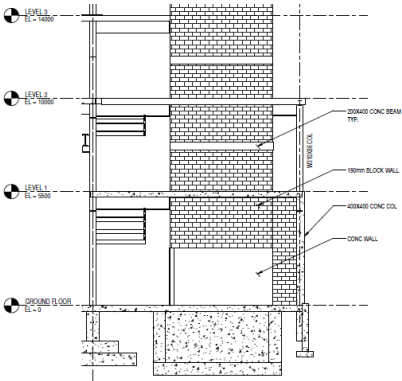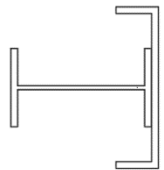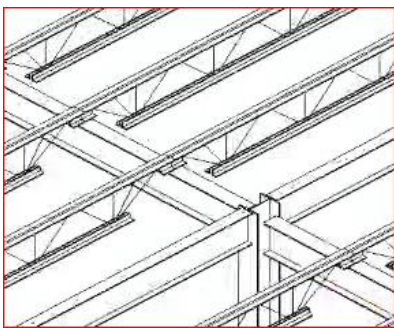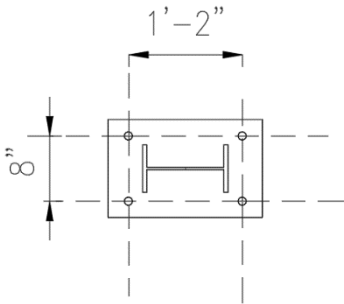
Parameter	CADWorx	Revit
1. Single Line Steel Drawings	This feature in CADWorx creates a two-dimensional representation from a three-dimensional model. Also, it shows the member sizes along with the orientation of the member as shown below. (SINGLE LINE STEEL DRAWING) Base plates cannot be shown in single line steel drawings (refer to screenshot below, the missing base plate is marked in red color). This is a major handicap while doing steel drawings as it is customary to give dimensions from the underside of baseplates. 	In Revit, one can show steel member with single thick line, but orientation of member can not be seen in this format.

	Parameter	CADWorx	Revit
2.	Concrete Reinforcement	Concrete reinforcement has to be shown manually as you would do in 2D drawing.	In Revit, you can model concrete reinforcement along with specified cover. It may not help in the drawing as the annotations have to be done manually.
3.	Levels in Elevation View	No levels in elevation view.	Revit allows you to work in different levels in the elevation views which makes it very easy w.r.t modelling and drawing purposes.
4.	Steel Shapes	CADWorx gives you freedom to choose structural steel shapes (W, C, L, Double Angle). That feature allows you to model any steel member in model space with ease. International steel catalogues of steel shape libraires in both imperial and metric units are available. You can also model built-up sections manually by using steel shapes from catalogue. Catalogues for open web steel joists are not available.	Revit has a full set of steel members in its library. It also has a catalogue of open web steel joists.

	Parameter	CADWorx	Revit
5.	Bracings	CADWorx allows you to model any type of horizontal or vertical bracing (chevron, x, inverted, etc.).	In Revit, you can choose type of brace from properties palette. While modelling a brace, one must need to specify start and end level with offset distance.
6.	Handrail, Stairs, Grating	One can model handrails, Stairs and even gratings in CADWorx easily from templates.	The same can be modelled in Revit also.
7.	Grids	One can set horizontal as well as elevation grids in CADWorx which makes modelling easy. You can also move your grid lines in the model space.	Horizontal grids can be set in plan views and whereas vertical grids are set in elevation views.
8.	Material Estimation	"BILL OF MATERIAL" can be prepared for steel sections only.	One can prepare material (steel, concrete, insulation, etc.) estimation.
9.	Anchor Base Plate Detail	Both have capacity to do the same. 1'−2" 8"	Both have capacity to do the same.
10.	Architectural Features	No architectural features. It was also noticed that CADWorx upon installation removes the native AutoCAD palettes for structural and architectural shapes.	Revit have architectural features like doors, windows, furniture, wall etc.

Parameter	CADWorx	Revit
11. Roofs	In CADWorx, one must model the roof manually. There is an option to model a deck. Insulation and other layers can be modelled as a plate with depth. Structural plate can be done in any shape.	In Revit, there are three options you can use to model roof. Roof by footprint, roof by extrusion and roof by face. By just inputting degrees in roof slope option, it can be modelled at any angle, and you can assign different materials and insulation for roof. Openings in roof can be done in Revit.
12. Material Property	Material property cannot be assigned to user defined objects. Hence, individual Bill of Material for different types of objects (other than steel shapes) is not possible.	In Revit, one can assign different material properties to any structure.
13. Ease of Use	CADWorx works on CAD platform which is a general drawing tool with broad application. With drafting perspective, working in CADWorx is very easy.	Revit is a design and documentation solution and sometimes the entire experience in Revit can be slowed down as Revit model involves interacting with many systems.
14. Drawing perspective	In CADWorx, one can bring any title block and annotations from old AutoCAD drawings which is a big plus.	In Revit, bringing title blocks and annotations can be a bit hassle.
15. Import model from CAD	In CADWorx, one can bring any 3D model from dwg file.	Revit struggles when dwg file is imported into it.