

- Where two Polylines logically join, intersecting features within the same layer these shall be snapped at the point of intersection.
- Each text/point representing information about an area should fit well inside it.
- Digitization of lines (for example where these are roads) should be undertaken in their direction of travel where the road links are 'one-way' links. Two-way links represented as one link can be digitized in either direction.
- All new Conduits (Line features) must be clearly distinguishable from existing features by symbology and labels (Existing/New/Proposed).
- For each feature the following spatial data is required: StartPoint, EndPoint and TurningPoints if applicable). Features must have x,y co-ordinates as label text near the respective location on the drawing. These co-ordinates shall be on level 10.
- All drawings delivered to DEWA shall have an attached CSV file containing all features, their X,Y location (StartPoint, EndPoint and TurningPoints) and shall include attributes (ref 3.Specification of coded values for various fields-CSV(Duct) and 4.Specification of coded values for various fields-CSV(Crossection)) specified in a tabular form. Sample CSV template available in [Appendix 1](#) Sample CSV/CAD file template.
- An additional reference number in duct/section_id in Crossection (refno-Ref [Appendix 1](#) Sample CSV/CAD file template) can be added (if required) to enable relationships between the graphics in CAD and attributes in CSV.

2.4 Topology Rules

It is important that some basic topological rules are enforced whilst creating and maintaining existing data. These rules should be followed in CAD format files to ensure ease of translating from CAD to GIS formats should DEWA need to undertake such translation exercise. Some of the examples are shown below:

