

State College Borough Water Authority

As-Built drawing design specifications

The State College Borough Water Authority maintains an Esri compatible Geodatabase of field assets. The Geographic Information System (GIS) data model schema represents the existing and abandoned field assets including hydrants, mains, fittings, valves, pumps, tanks, wells etc.

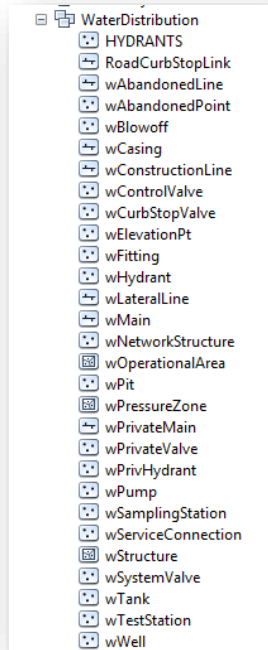


Figure 1: Feature types (layers) that comprise the GIS for SCBWA.

PURPOSE: The SCBWA seeks to have all as-built drawings submitted both in hardcopy (printed) and electronic form. The electronic files will be used for reviewing and approving the submittals as well as populate the GIS with updated information. In order for SCBWA to properly review submitted AutoCAD (DWG) or MicroStation (DGN) drawings, they must be generated with specific features and only those features isolated on a unique Layer in CAD and must be generated using a real world coordinate projection.

Requirements: The layering schema is provided with the CAD electronic seed file. The CAD electronic seed file will be provided upon request. The layers represent the asset types that should be uniquely identified in the electronic files submitted. The page layout can be unique to your organization. Other requirements of the electronic file are as follows:

1. Avoid using splined polylines
2. Avoid using 3D polylines
3. Provide both a **DWG/DGN** and a **DXF** for each Referenced CAD drawing. (Water distribution features should be contained in a single file. Other utilities can be provided in separate CAD files).

4. The Coordinate project should be

NAD_1983_StatePlane_Pennsylvania_North_FIPS_3701_Feet
WKID: 2271 Authority: EPSG

Projection: Lambert_Conformal_Conic
False_Easting: 1968500.0
False_Northing: 0.0
Central_Meridian: -77.75
Standard_Parallel_1: 40.88333333333333
Standard_Parallel_2: 41.95
Latitude_Of_Origin: 40.16666666666666
Linear Unit: Foot_US (0.3048006096012192)

Geographic Coordinate System: GCS_North_American_1983
Angular Unit: Degree (0.0174532925199433)
Prime Meridian: Greenwich (0.0)
Datum: D_North_American_1983
Spheroid: GRS_1980
Semimajor Axis: 6378137.0