

2.4.3

Asset Management for Closed Storm Drain System

Presenter

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Transcend and Anne Arundel County (AACo), Maryland developed a Closed Storm Drain System (CSDS) asset management system to assist the County with asset inspections and inventory in support its required National Pollutant Discharge Elimination System (NPDES) program for the state. The CSDS assists with tracking the Best Management Practices (BMPs) as well as CSDS for NPDES, and links the County GIS and CAD with the CSDS in a successful CAD/GIS interoperability approach. The database was updated to accommodate Oracle Spatial geometry storage and spatial processing and was normalized to provide optimum compatibility with a variety of AACo GIS and Computer Aided Drafting

software. Transcend performed all data integration and migration from GIS data files and other legacy database structures/data files containing relevant data. The project team developed a Web-based application to view, edit, and visualize CSDS asset and inventory (e.g. BMPs, inlets, outfalls, pipes, culverts, etc.) on a GIS map that also supports mobile devices.