

City of Alexandria, Virginia

MEMORANDUM TO INDUSTRY NO. 03-05

DATE: JULY 20, 2005
TO: DEVELOPERS, ARCHITECTS, ENGINEERS & SURVEYORS
FROM: EMILY A. BAKER, P.E., DEPUTY DIRECTOR/ENGINEERING
TRANSPORTATION & ENVIRONMENTAL SERVICES *oab*
SUBJECT: AS-BUILT SEWER DATA FOR DEVELOPMENT PROJECTS

The City of Alexandria has been conducting a GIS sewer mapping project for public storm and sanitary sewers in the City. The collection of this data will enable City staff and consultants working within the City to better access existing information on the City's infrastructure. Once it is completed, this information will be available to private sector engineers for their use on projects within Alexandria.

In order to keep this sewer geodatabase information up to date, the City will be requiring additional information to be provided on as-built development plans relating to storm and sanitary sewers. This additional required information is outlined in detail below. This additional as-built information will be required on all projects with a Completeness Plan submitted on or after August 1st, 2005.

Additional Requirements

As-built information for storm and sanitary sewers is required for the purposes of maintaining the City's sewer geodatabase. The horizontal and vertical **as-built** locations of all storm and sanitary sewer structures shall be submitted as an electronic Excel file in the following format (the format may need to be modified to add additional fields as necessary):

Structure ID	Structure Type	Northing (NAD 83)	Easting (NAD 83)	Invert In (NAVD 88)	Invert Out (NAVD 88)	Top Elevation (NAVD 88)

All development plans will be required to provide the following information on *as-built* drawings:

Benchmarks

- Provide three benchmarks on the drawings with coordinates based on the NAD 83 using Virginia North State Plane Coordinate System.
- Elevations of benchmarks referenced to NAVD 88.

Sanitary Sewers

- Pipe slope
- Pipe diameter
- Pipe material and class
- Diameter of manholes
- Drop connection depth
- Top elevation of all structures
- Inverts in/out of all manholes
- Connections to existing sanitary sewers

Storm Sewers

- Pipe slope
- Pipe diameter
- Pipe material and class
- Inlet type
- Outlet type
- Length of throat
- Endwall or headwall structure type
- Diameter of manholes
- Top elevation of all structures
- Inverts in/out of manholes
- Inverts out of all inlets/catchbasins
- Connections to existing storm drainage structures

This effort on the part of the development industry will allow the City of Alexandria to keep up to date records of the City's sewer systems. This geodatabase will assist everyone who is involved in development work within the City.

If you have any questions, please contact me or Gregory Tate, Site Plan Coordinator, at (703) 838-4318.