

## **DIGITAL DATA SUBMISSION**

A. The engineer shall deliver digital data in .dwg, .dxf, shapfile or Geodatabase format. Standard transfer media will be accepted. This media includes CD, DVD, email, ftp or portable storage device.

B. The engineer shall deliver one scanned or exported set of approved imaged document plans. The imaged document sets shall be complete and include the title sheet, plan/profile sheets, cross-sections, and details. Each individual sheet contained in the printed set of the drawings shall be included in the electronic submittal, with each sheet being converted into one of the following formats: Tiff, JPEG or PDF. The plan sheets shall be scanned or exported at 400 dpi resolution to maintain legibility of each drawing. These drawings will assist in the process of performing quality control and quality assurance. The drawings will be reviewed for format and completeness.

C. Only drawings relevant to the project's phase of submittal shall be included. For example, do not include "Bid Set" drawings in an asbuilt drawing submittal. Also, do not include documents that would not normally be included in the set of imaged drawings.

D. Imaged plans to be uploaded will include only new construction and care will be taken to exclude any "existing" facilities from this dataset so as to not duplicate information in GIS. Existing data can be included in the drawing but should reside on separate layers.

E. Include a label on the media or digital file indicating project name and number, consultant name, project manager and telephone number, type of submittal, subdivision name, date of submittal, and file format.

## **SECTION 3 REQUIREMENTS**

Required projection

### **Ottawa County GIS Data Projection Standard Projected Coordinate System:**

Projection: Lambert\_Conformal\_Conic  
False\_Easting: 13123359.58005249  
False\_Northing: 0.0  
Central\_Meridian: -84.36666666666666  
Standard\_Parallel\_1: 42.1  
Standard\_Parallel\_2: 43.66666666666666  
Latitude\_Of\_Origin: 41.5  
Linear Unit: Foot (0.3048)

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  
Semiminor Axis: 6356752.314140356  
Inverse Flattening: 298.257222101

**Vertical datum shall be in:**

NGVD 1988 also expressed in international feet