



## CDOT IMPLEMENTATION

### Base map requirements for traffic signal design requests

Upon request of CDOT Implementation section, after approval of your plans, please submit ONE **AutoCAD (2013-2016)** DWG file with **both existing and proposed** conditions shown using color and layers to differentiate between the two to the following specifications:

#### DWG drawing elements

- **NO X-Refs**
- Show proposed **and** existing:
  - All CDOT utilities (include actual sizes of pull boxes and place on a separate layer)
  - Utilities (water, sewer, gas, electric, communication, irrigation, pipe runs with sizes, if available)
  - Stormwater features (ditches, culverts, drains, pipe runs with sizes, if available)
  - Right-of-Way, property lines, setbacks and easements
  - Pavement markings and traffic signs
  - Edge of pavement & curb lines
  - Sidewalk
  - Utility poles (including overhead lines and down guys)
  - Driveways
  - Buildings
  - Trees
- Show Road centerline. Include topography if available.
- Include a minimum of +/- 300 feet of information for each leg of an intersection, including driveways.
- Cross-sections every 25' on all legs for 100' from the intersection.
- Remove extraneous detail not necessary for roadway and signal work (internal building layout, internal parking lot markings etc.)

#### DWG file settings

- 1:1 Scale
- Layers should be clearly identifiable by name (ie. EX-SIDEWALK, PP-SIDEWALK etc.)
- UCS/world and PLAN/world orientation; UCS should be set to World. No skewed drawings, text and crosshairs. North is 90 degrees straight up
- Purge all blocks, layers, shape files, text, etc.
- Convert all text to simplex/standard
- Curves should be curve elements, not composed of many separate segments
- The base drawing must be unitless
- Dimensions must be English, Not metric