

New Page

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Electronic Bid Set (EBS) Information

Seattle District electronic bid sets are distributed with drawings in CALS (Continuous Acquisition and Life-cycle Support, Group 4 non-tiled, (CG4)) format for viewing with MaxView Corporation's MaxReader. A/E firms must provide CALS files of all drawings, including reference drawings. If hardcopy reference drawings need to be scanned, see [scanning for EBS](#).

DPI: 200, 300 or 400, depending on amount of detail needed. These resolutions are the most efficient for printing. All drawings must have the same DPI.

Drawing size: Ensure all project drawings in a set will print at the same size. If there are exceptions (e.g., reference drawings), note them in the index.txt (see below).

Rotation: All images must be consistently rotated, before viewing in MaxReader. In MaxReader they must appear upright and MaxReader Page Properties (under Options on the menu bar) must show 0 degrees image rotation. Note, images can be rotated in MaxReader while viewing them; however, the native CALS file may not be rotated correctly. This causes problems for

commercial printing companies that do not use MaxView software to print CALS files.

Filenames: Drawing files shall be named ebsxxx.cal, where xxx is the sheet number (e.g. ebs001.cal, ebs002.cal, etc.). For reference drawings, restart the numbering with 001 and add "r" at the end of "ebs" (e.g., ebsr001.cal). The *.maxFR file should be named with a series of letter abbreviations for the project (e.g., mhsoc.maxFR for Mountain Home Air Force Base Squadron Operations Center).

Other Requirements: As mentioned above, an ASCII text file, named index.txt ([sample](#)), must be provided with the CALS files. This file shall be a space-delimited table listing filename, associated plate number, and drawing title as shown in the [sample](#). A/Es are strongly encouraged to purchase MaxAuthor from MaxView Corporation, www.maxview.com. MaxAuthor allows you to compile a *.maxFR file capable of reading CALS with the free MaxReader. A/Es should provide this *.maxFR file in addition to the index.txt.

Detailed Instructions: Additional instructions on how to generate the CALS files themselves can be found on the Mobile District website (Seattle District does not guarantee the accuracy of these procedures and they are provided "as-is"):

- [Generating CALS from MicroStation v8](#)
- [Generating CALS from AutoCad 2000](#)
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- [CALS driver for MicroStation v8](#)
[CALS driver for AutoCad 2000](#)

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