



**AMERICAN DESIGN DRAFTING ASSOCIATION
41st ANNUAL DESIGN DRAFTING CONTEST**

**Attachment 6
'Standards List'**

The following is a compilation of national standards or nationally recognized practices that are adhered to or referenced by many of the industries in the United States. Where there are standards or practices available, the judges are instructed to base their judging criteria on the applicable portions of the related standards.

A note to instructors and students: Please prepare drawing entries for the contest even if these standards are not part of your instructional materials. Often the drawing books used for instruction will be prepared using these standards as guides. Be aware that industry has been making greater efforts to embrace national standards; therefore it is imperative for those preparing to enter the market place, be knowledgeable and skilled at applying these standards to their work. Basic AutoCAD drawing standards can be found in any Level I AutoCAD class book. Nationally recognized layering standards can be found here. CAD line-type standards follow ANSI/ASME Y14.2M.

Architectural and Structural:

- **Architectural Graphic Standards.** American Institute of Architects, John Wiley and Sons, New York. Guidelines for drawings can be found in the Drafting Techniques section. (Use the most current edition, although previous editions should be similar.)
- **ANSI Y32.4, Plumbing Fixtures for Diagrams Used in Architecture and Building Construction,** Graphic Symbols for.
- **ANSI Y32.9, Electrical Wiring and Layout Diagrams Used in Architecture and Building Construction ,**Graphic Symbols for.

Machine and Mechanical:

- ANSI Y14.1, Drawing Sheet Size and Format
- ANSI/ASME Y14.2M, Line conventions and Lettering
- ANSI Y14.3, Multi and Sectional View Drawings
- ANSI Y14.5M, Dimensioning and Tolerancing
- ANSI Y14.6, Screw Thread Representation
- ANSI Y14.6aM, Screw Thread Representation (Metric Supplement)
- ANSI Y14.36, Surface Texture Symbols

Technical Illustration:

- ANSI/ASME Y14.4M, Pictorial Drawing

Electrical/Electronic:

- ANSI Y14.2M, Line conventions and Lettering
- ANSI Y14.5M, Dimensioning and Tolerancing
- ANSI Y14.15, Electrical and Electronics Diagrams
- ANSI Y32.9, Electrical Wiring and Layout Diagrams Used in Architecture and Building Construction, Graphic Symbols for.

Attachment 1
'Standards List'

Piping:

- ANSI Y14.2M, Line conventions and Lettering
- ANSI Y14.5M, Dimensioning and Tolerancing
- ANSI/ASME Y32.2.3, Graphical Symbols for Pipe Fittings, Valves and Piping

To locate these standards or guidelines, check your school library, public library, the library of a state University or check with the design/drafting department of a major industry or architectural firm. Other sources of these standards and industry practices can be found in commercially available drafting manuals like the following:

Modern Drafting Practices and Standards Manual, Genium Publishing Corporation, Schenectady, NY

Drawing Requirements Manual, Glogal Professional Publications, Irvine, CA