

**ASME Y14.1-2005**  
(Revision of ASME Y14.1-1995)

# **Decimal Inch Drawing Sheet Size and Format**

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**Engineering Drawing and Related Documentation Practices**

**AN AMERICAN NATIONAL STANDARD**



**The American Society of  
Mechanical Engineers**

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**The American Society of  
Mechanical Engineers**

**Three Park Avenue • New York, NY 10016**

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# FOREWORD

This Standard establishes a series of recommended decimal inch drawing sizes and the basic format for engineering drawings. It provides a basis for uniformity in engineering drawing size and format that industry and government can utilize. It is not the intent of this Standard to prevent individual organizations from designing specific formats that meet their individual needs, but rather to provide common engineering delineation standards to aid the interchange of drawings between industry, government, and other users.

This Standard is a revision of ASME Y14.1-1995, Decimal Inch Drawing Sheet Size and Format. Work on the revision of this Standard began in May 1999 in Minneapolis, Minnesota by the members of Subcommittee 1.

The following is a summary of the significant changes that were incorporated into this revision.

- (a) Added reference to ASME Y14.100 in para. 1.1 (previous para. 1), Scope.
- (b) Revised para. 1.4 (previously para. 3), Applicable Documents, to clarify lead sentence using the same wording as is in ASME Y14.24; removed date of issuance from referenced standards; updated the title of Y14.34M, and added reference to Y14.35M and Y14.100.
- (c) Added para. 1.5, Definitions.
- (d) Revised para. 2.1.2 (formerly para. 4.1.1) to allow extra length margins in both vertical and horizontal directions and removed minimum size requirement for extra length.
- (e) Combined the intent of paras. 2.3.1 and 2.3.2 (formerly paras. 4.3.1 and 4.3.2, respectively) into one paragraph under para. 2.3.
- (f) Condensed description of Block A.
- (g) Description of Block E was rewritten for clarity.
- (h) Qualified the use of CAGE Code in Block I description.
- (i) Revised Block L description to allow total number of sheets to be shown on the first or last sheet of a multiple sheet drawing. Added requirement for consecutive whole sheet numbers to be used in initial preparation.
- (j) Deleted Sections 12, Computer-Generated Drawing File Identifiers, and 13, Limited Right or Copyright Legends. Both were determined to be outside the scope of this Standard.
- (k) Revised para. 3 (formerly para. 5) to distinguish between basic formats and continuation sheets and then provide elements common to both.
- (l) Revised para. 3.3, Blocks, to state that sizes shown are minimum, and removed from figures the general notes that stated dimensions shown are recommended.
- (m) In Tables 1 and 2, revised format margins to standardize at 0.50.
- (n) Added "Block Letter Reference" note to Figs. 4 through 7.

Where this Standard is specified as a requirement in a document, its defined requirements are assumed to be consistent with the needs of the user. Therefore, each user provides appropriate interpretations, as the need arises, consistent with the environment in which it is applied.

The successful revision of this Standard is attributed to the subcommittee members and their respective companies, and the department and agencies of the U.S. Government.

Suggestions for the improvement of this Standard are welcome. They should be sent to The American Society of Mechanical Engineers, Attn.: Secretary, Y14 Standards Committee, Three Park Avenue, New York, NY 10016-5990.

This revision was approved as an American National Standard on July 29, 2005.

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Secretary, Y14 Standards Committee  
The American Society of Mechanical Engineers  
Three Park Avenue  
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**Proposing Revisions.** Revisions are made periodically to the Standard to incorporate changes which appear necessary or desirable, as demonstrated by the experience gained from the application of the Standard. Approved revisions will be published periodically.

The Committee welcomes proposals for revisions to this Standard. Such proposals should be as specific as possible, citing the paragraph number(s), the proposed wording, and a detailed description of the reasons for the proposal including any pertinent documentation.

**Attending Committee Meetings.** The Y14 Standards Committee regularly holds meetings or telephone conferences, which are open to the public. Persons wishing to attend any meeting or telephone conference should contact the Secretary of the Y14 Standards Committee or check our Web site <http://www.asme.org/codes>.



# ENGINEERING DRAWING AND RELATED DOCUMENTATION PRACTICES

## DECIMAL INCH DRAWING SHEET SIZE AND FORMAT

### 1 GENERAL

#### 1.1 Scope

This Standard defines decimal inch sheet size and formats for engineering drawings. Metric sheet sizes and format are defined in ASME Y14.1M. For engineering drawing preparation and practices, see ASME Y14.100.

#### 1.2 Purpose

Standardization of drawing sizes and the uniform location of format features on drawing forms provides definite advantages in readability, handling, filing, and reproduction. In using drawings made by other organizations, an advantage is gained when like items of information are in the same location on all drawings, and when uniformity of form and language is applied in making information entries. Revision information and dates are of particular importance to users of drawings and should be located and expressed uniformly on all engineering drawings.

The widespread use and exchange of reduced size copies of drawings both within and between organizations emphasizes the importance of standardization of drawing size and format.

#### 1.3 Units

All dimensions used in this Standard are in inches.

#### 1.4 Applicable Documents

The following documents form a part of this Standard to the extent specified herein. Unless otherwise indicated, the latest edition shall apply.

ASME Y14.1M, Metric Drawing Sheet Size and Format  
ASME Y14.2M, Line Conventions and Lettering  
ASME Y14.3M, Multiview and Sectional View Drawings  
ASME Y14.5M, Dimensioning and Tolerancing  
ASME Y14.34M, Associated Lists

ASME Y14.35M, Revision of Engineering Drawings and Associated Documents

ASME Y14.100, Engineering Drawing Practices

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### 1.5 Definitions

The following definitions were extracted verbatim from ASME Y14.100.

*assembly*: a number of parts or combination thereof that are joined together to perform a specific function and subject to disassembly without degradation of any of the parts (e.g., power shovel-front, fan assembly, audio-frequency amplifier).

NOTE: The distinction between an assembly and a subassembly is determined by individual application. An assembly in one instance may be a subassembly in another instance where it forms a portion of a higher assembly.

*associated list*: a tabulation of engineering information pertaining to an item depicted on an engineering drawing or by a set of drawings (e.g., parts, data, index, wire, and application lists).

*Commercial and Government Entity (CAGE) Code*: a five-character code that provides a unique activity identifier used by the government for activity identification. This method of activity identification has also been widely adopted by industry; CAGE Codes are listed in Cataloging Handbook H4/H8. Cataloging Handbook H4/H8 is available at the Defense Logistics Services Center, DLSC-USS, Federal Center, 74N Washington Ave. N, Ste 7, Battle Creek, MI 49017-3084.

*contract*: a mutually binding legal relationship obligating the seller to furnish the supplies or services (including construction) and buyer to pay for them. It includes all types of commitments that obligate the procuring activity to an expenditure of appropriated funds and that, except as otherwise authorized, are in writing. In addition to bilateral instruments, contracts include, but are not limited to, awards and notices of awards; job orders or task letters issued under basic ordering agreements; letter contracts; orders, such as purchase orders, under which the contract becomes effective by written acceptance or performance; and bilateral contract modifications.

*contractor*: an individual, partnership, company, corporation, association, or other service having a contract for the design, development, manufacture, maintenance, modification, or supply of items under the terms of a contract.

*copy*: any reproduction or duplication, in any media, of an original.

*design activity*: an organization that has, or has had, responsibility for the design of an item.

*current design activity*: the design activity currently responsible for the design of an item. This may be the original design activity or a design activity to which the design responsibility has been transferred.

*original design activity*: the design activity originally responsible for the design and identification of an item whose drawing number and activity identification is shown in the title block of the drawings and associated documents.

*design activity identification*: the application of a unique identifier that distinguishes an activity or organization from another activity or organization. Examples of activity identification include activity name, activity address, or CAGE Code.

*digital data*: data stored on a computer system that employs a display on which the user and the computer interact to create or alter entities for the production of layouts, drawings, numerical control tapes, or other engineering data.

*document*: a term applicable to the specifications, drawings, lists, standards, pamphlets, reports, and printed, typewritten, or otherwise created information relating to the design, procurement, manufacture, testing, or acceptance inspection of items or services.

*drawing*: an engineering document or digital data file(s) that discloses (directly or by reference), by means of graphic or textual presentations, or by combinations of both, the physical or functional requirements of an item.

*drawing format*: the arrangement and organization of information within a drawing. This includes such features as the size and arrangement of blocks, notes, lists, and revision information and use of optional or supplemental blocks.

*engineering data*: engineering documents such as drawings, associated lists, accompanying documents, specifications, standards, or other information prepared or used by a design activity and relating to the design, manufacture, procurement, testing, or inspection of items.

*item*: a nonspecific term used to denote any unit or product including materials, parts, assemblies, equipment, accessories, and computer software.

*original*: the current design activity's drawing on which the official revision record is kept.

*part*: one item, or two or more items joined together, that is not normally subject to disassembly without destruction or impairment of designed use (e.g., transistor, composition resistor, screw, transformer, and gear).

*procuring activity*: the customer.

*referenced documents*: design activity standards, drawings, specifications, or other documents referenced on drawings or lists.

*standard*: a document that establishes technical criteria, methods, processes, and practices.

*company standard*: a document produced by a company that establishes engineering and technical limitations and applications for items, materials, processes, methods, designs, and engineering practices unique to that particular company.

*standardization document*: a document developed for the purpose of standardizing items, materials, processes, or procedures.

## 2 DRAWING SHEET SIZES

Drawing sheet size designations are listed in Tables 1 and 2. The sizes shown are the overall size of the sheets excluding protective or binding margins. See paras. 2.1.2 and 2.1.3. Rounded corners may be used on all drawing sizes.

### 2.1 Margins

**2.1.1 Format Margins.** The format margin sizes shown in applicable figures are the minimum required.

**2.1.2 Protective Margins.** For roll size drawings, additional lengths of vertical and horizontal margins are permissible. See Figs. 2 and 3.

**2.1.3 Binding Margins.** The margins of basic drawing sizes (format margins) may be increased when the document is to be bound in a book form. Both margins may be increased when the document is to be printed back to back. However, except for the binding margins, all other format, content, and actual sheet size requirements are to conform to this Standard.

### 2.2 Drawing Sizes

All drawing sizes indicated in Tables 1 and 2 are multiples of the A size except for F, H, and K sizes.

**2.2.1 Roll Size Drawings.** Roll size drawings are drawings which, due to their lengths, are filed in rolls. The lengths shown have been selected in recognition of microfilm frame size requirements. Segments of length are based on two zone increments. Segments contain full zones in each microfilm segment.

**2.2.2 G Size Format.** Segments of lengths are based on multiples of 8.5 in. This format permits full size copies to be bound in 8.5 × 11 in. books or filed in loose-leaf notebooks. See Table 2 and Fig. 2.

**2.2.3 H, J, and K Size Format.** Segments of lengths are based on multiples of 11 in.

**Table 1 Flat Sizes**

Format Size Designation	Vertical	Recommended Zone [Note (1)]		Horizontal	Recommended Zone [Note (1)]		Format Margin		Recommended Microfilm Reduction
		Number	Size		Number	Size	Horizontal	Vertical	
A (Horizontal)	8.50	2	4.25	11.00	2	5.50	0.50	0.50	16X
A (Vertical)	11.00	2	5.50	8.50	2	4.25	0.50	0.50	16X
B	11.00	2	5.50	17.00	4	4.25	0.50	0.50	16X
C	17.00	4	4.25	22.00	4	5.50	0.50	0.50	16X
D	22.00	4	5.50	34.00	8	4.25	0.50	0.50	24X
E	34.00	8	4.25	44.00	8	5.50	0.50	0.50	30X
F	28.00	6	4.67	40.00	8	5.00	0.50	0.50	30X

GENERAL NOTE: See Fig. 1.

NOTE:

(1) Zone sizes shall be equal, and no less than 1 in., and no more than 5.50 in.

**Table 2 Roll Sizes**

Format Size Designation	Vertical [Note (2)]	Recommended Zone [Note (1)]		Horizontal [Note (2)]		Recommended Zone [Note (1)]		Format Margin		Recommended Microfilm Reduction
		Number	Size	Min.	Max.	Number	Size	Horizontal	Vertical	
G	11.00	4	2.75	22.50	90.00	6–24	3.75	0.50	0.50	16X
H	28.00	8	3.50	44.00	143.00	8–26	5.50	0.50	0.50	30X
J	34.00	8	4.25	55.00	176.00	10–32	5.50	0.50	0.50	30X
K	40.00	8	5.00	55.00	143.00	10–26	5.50	0.50	0.50	30X

GENERAL NOTE: See Figs. 2 and 3.

NOTES:

(1) Zone sizes shall be equal, and no less than 1 in., and no more than 5.50 in.

(2) Not including added protective or binding margins. See paras. 2.1.2 and 2.1.3.

## 2.3 Computer-Generated Drawings

When copies of computer-generated drawings are produced, sheet sizes may be increased to compensate for output device requirements, providing the copies can be trimmed to the sheet sizes specified in this Standard. However, the drawing format and content shall conform to the requirements of this Standard. The continuous lines and widths of lines shown in this Standard to form the various features (that is, the required blocks, columns, and margins) do not have to be used. However, the format sizes, the relative positions of the data headings and data contents shall conform to the requirements of this Standard. The data headings and contents created by data processing systems shall be legible when reproduced.

## 3 FORMATS

### 3.1 Basic

Basic formats include the title block from Figs. 4 and 5, and shall be used for sheet one, and may be used for all sheets of a multisheet drawing.

The basic formats are defined in Figs. 1, 2, and 3.

### 3.2 Continuation Sheets

Continuation sheets are used for second and subsequent sheets of a multiple sheet drawing. See para. 4.3 for minimum title block information requirements. For continuation sheet title blocks, see Figs. 6 and 7. As an option, title blocks shown in Figs. 4 and 5 may be used. All sheets of a multiple sheet drawing should be the same size.

### 3.3 Blocks

The sizes of blocks specified herein are minimum. For block content, see para. 4.2. Additional blocks may be added.

### 3.4 Lettering

The size and style of lettering printed on drawing formats shall be in accordance with ASME Y14.2M.

### 3.5 Zoning

Formats, except A and B sizes, shall include zones for reference purposes. Zones are indicated by alphabetical and numerical entries in format margins and by subdivisions or multiples thereof as indicated in Figs. 1, 2, and 3. Sizes A and B may also be zoned.

### 3.6 Lines

Width of lines shall be in accordance with ASME Y14.2M. When contrasting line widths are desired, the following guidelines may be used:

(a) thick

- (1) borderline
- (2) outline of principle blocks
- (3) main division of blocks
- (4) segment match lines

(b) thin

- (1) division of parts list and revision history blocks
- (2) minor subdivisions of the title block and supplementary blocks
- (3) zone markers

### 3.7 Microfilm Alignment

**3.7.1 Alignment Arrowheads.** Arrowheads are placed in the format margins of drawings to facilitate the alignment of drawings for microfilming as illustrated in Figs. 1, 2, and 3. Microfilm arrows shall be centered within the microfilm segment. See Fig. 14 for size and style.

**3.7.2 Segment Match Lines.** Segment match lines are shown on roll size drawings for multiple segment microfilming to facilitate matching after reproduction from the microfilm. They are placed inside the drawing field adjoining the format margin as shown in Figs. 2, 3, and 10.

## 4 TITLE BLOCKS

### 4.1 Location

The title block shall be located in the lower right corner of the format. See Figs. 1, 2, and 3.

### 4.2 Contents

Certain information common to all drawings is shown in the title block. See Figs. 4, 5, 6, and 7 for block letter references given below.

**Block A:** The name or name and address of the company or original design activity whose drawing number appears in the drawing number block. On continuous sheets, this block is required in the absence of a Commercial and Government Entity (CAGE) Code.

**Block B:** Drawing title.

**Block C:** Drawing number.

**Block D:** Sheet Revision Block. This block may be omitted when a revision history block is included on the sheet.

**Block E:** This block contains information in sub-blocks, such as names and dates, relative to the preparation and approval of the drawing.

The sub-block titles, such as DRAFTER, CHECKER, ENGINEER, etc., shall be identified appropriately. When applicable, the contract number shall be included within this block.

**Block F:** Approval by the design activity when different from the source preparing the drawing. This may be necessary when a contractor-subcontractor condition exists; otherwise this block may be absorbed into Block E, or it may be used for other purposes.

**Block G:** Approval by an activity other than those described for Blocks E and F. Where not required, this block may be absorbed into Block E or it may be used for other purposes.

**Block H:** Predominant scale of the drawing sheet. Enter "NONE" when no scale is used. Each sheet may have a different predominant scale.

**Block I:** CAGE Code. When required for identification of the original design activity whose drawing number is used. For the commercial sector where there is no requirement for the CAGE Code, the CAGE Code block may be left blank or eliminated.

**Block J:** Drawing size designation. See Tables 1 and 2.

**Block K:** Actual or estimated weight of the item when required. This block is shown on sheet one only.

**Block L:** Sheet number. Enter the appropriate sheet number beginning with the numeral 1. The drawing shall be prepared initially using consecutive whole numbers.

### 4.3 Continuation Sheet Title Block

As a minimum, the continuation sheet title block shall contain the following: Blocks C, H, I, J, and L. See Figs. 6 and 7.

## 5 REVISION HISTORY BLOCK

### 5.1 Location

The Revision History block, as shown in Fig. 8, is located in the upper right corner of the drawing. See Figs. 1, 2, and 3. Space shall be reserved to extend the Revision History block downward as required. When additional space for the Revision History block is needed, a supplemental Revision History block may be located to the left of the original Revision History block. Revision History blocks may be included on continuation sheets.

## 5.2 Contents

The Revision History block provides space for revision symbol, description or identification of the change authorization document, date, and approvals. The headings shall be presented as shown in Fig. 8. The zone column may be added when zones are included in the drawing format, and the design activity desires to identify locations of revisions. The width of the Revision History block may be changed to provide for other columns as necessary. See ASME Y14.35M for completion requirements.

## 6 REVISION STATUS OF SHEETS BLOCK

A revision status of sheets block is required on sheet one of multiple sheet drawings and records the revision status of each sheet. The revision status of sheets block is shown as a tabulation similar to those shown in Fig. 11.

The revision status of sheets block may be located in the area of the revision history block or the title block, or on a separate sheet for drawings in book form.

See ASME Y14.35M for completion requirements.

## 7 ASSOCIATED LISTS

See ASME Y14.34M for sheet sizes and formats of associated lists.

## 8 ADDITIONAL DATA BLOCKS

Blocks containing various types of additional data, when required, shall be added adjacent to the title block and in the same respective location on all drawings.

When drawing size restricts placement of optional block(s), the block(s) may be located where space permits.

The following subparagraphs identify several commonly used blocks. Additional blocks may be added when required.

### 8.1 Angle of Projection Block

The angle of projection symbol will be as illustrated in ASME Y14.3M. See Figs. 1, 2, and 3 for its location.

### 8.2 Dimensioning and Tolerancing Block

Information relative to dimensioning and tolerancing, such as angular and dimensional tolerances, are given in this block. See Fig. 13. Reference to ASME Y14.5M may be included in this block. When used, the block shall be in the title block area.

### 8.3 Application Block — Optional

When used, the application block shall be located adjacent to the title block. The application block includes columns such as next assembly “NEXT ASSY”, and where used “USED ON”, for drawings depicting a detail part or assembly of a component for a larger unit. See Fig. 12. The “NEXT ASSY” column lists drawing number(s) or part number(s) of the next higher assembly(ies) to which the drawing applies. The “USED ON” column identifies the system or subsystem to which the item pertains. As an alternative, reference may be made to application data in a separately maintained document or database. See ASME Y14.34M.

## 9 ADDITIONAL DRAWING NUMBER BLOCKS

### 9.1 Margin Drawing Number Block — Optional

Drawing number block location and orientation in format margins, as shown in Figs. 1, 2, and 3, are at the option of the design activity. See Fig. 9.

### 9.2 Roll Size Drawing Microfilm Identification Blocks

To facilitate the identification of microfilmed roll size drawings, the microfilming identification blocks, Fig. 10, shall be used and positioned at the right end of each microfilm segment as shown in Figs. 2 and 3. When required, the CAGE Code shall be located adjacent to the identification block.

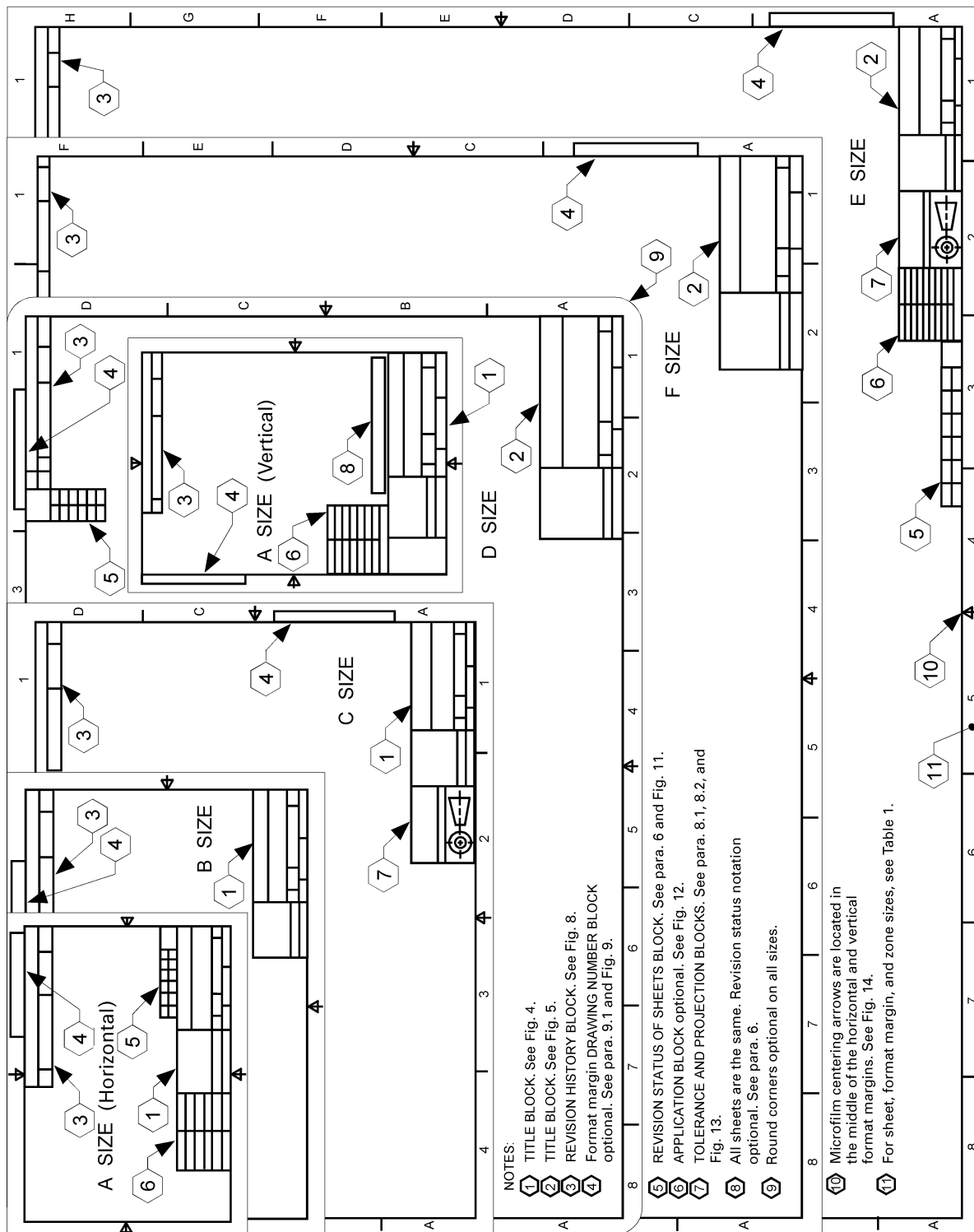


Fig. 1 Flat Sheet Size Formats, A Through F Sizes



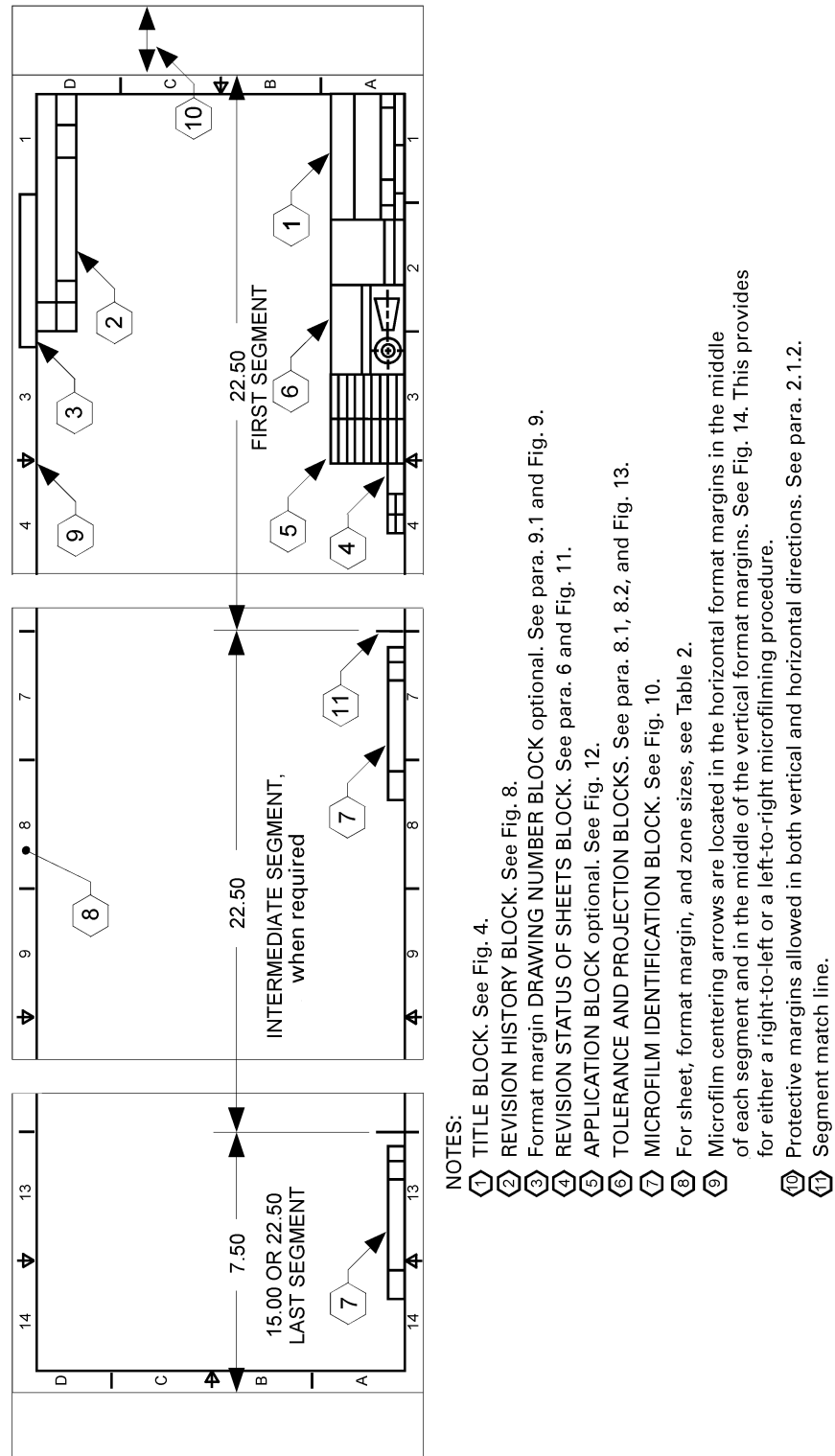


Fig. 2 Roll Size Format, G Size

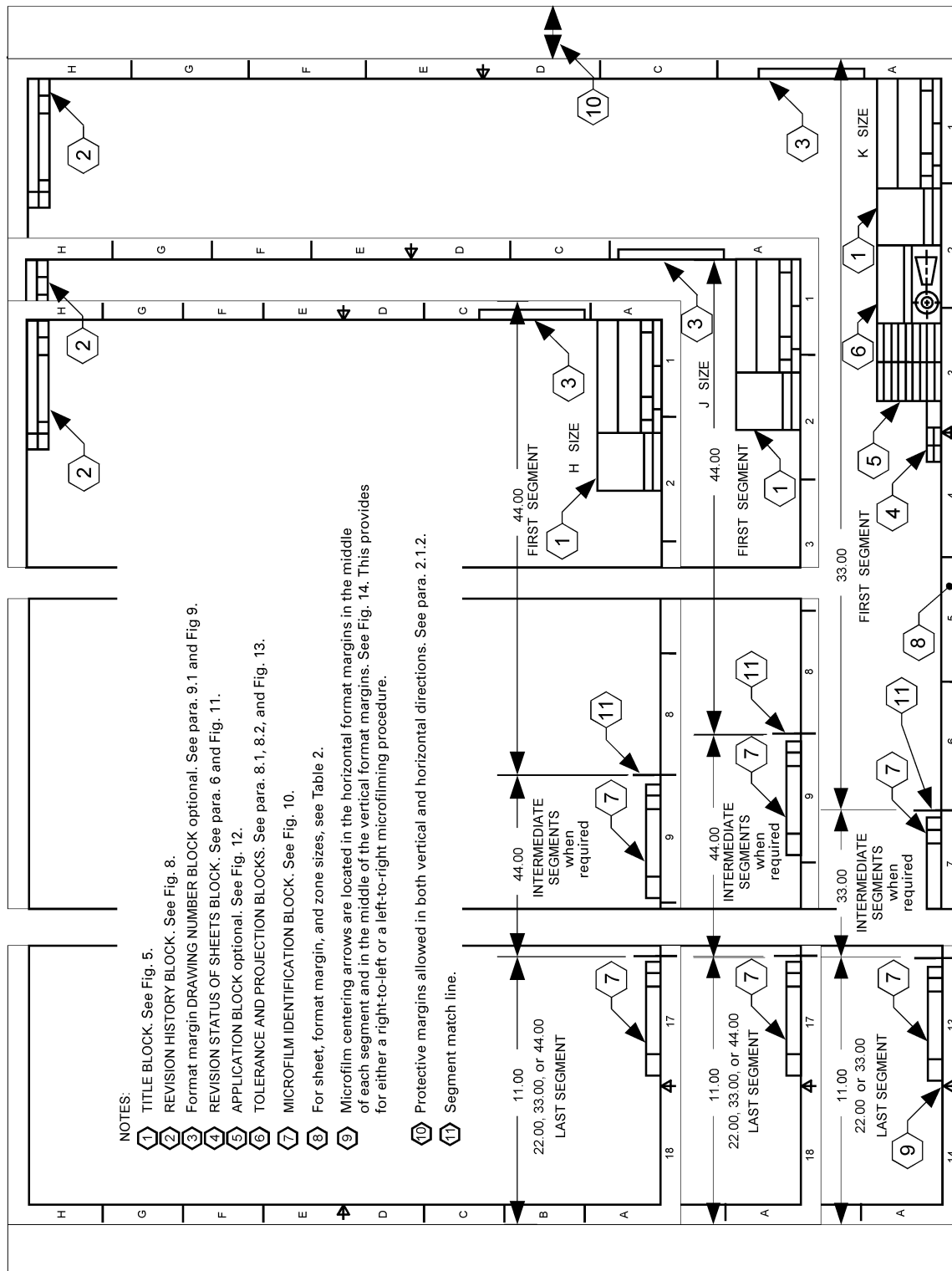
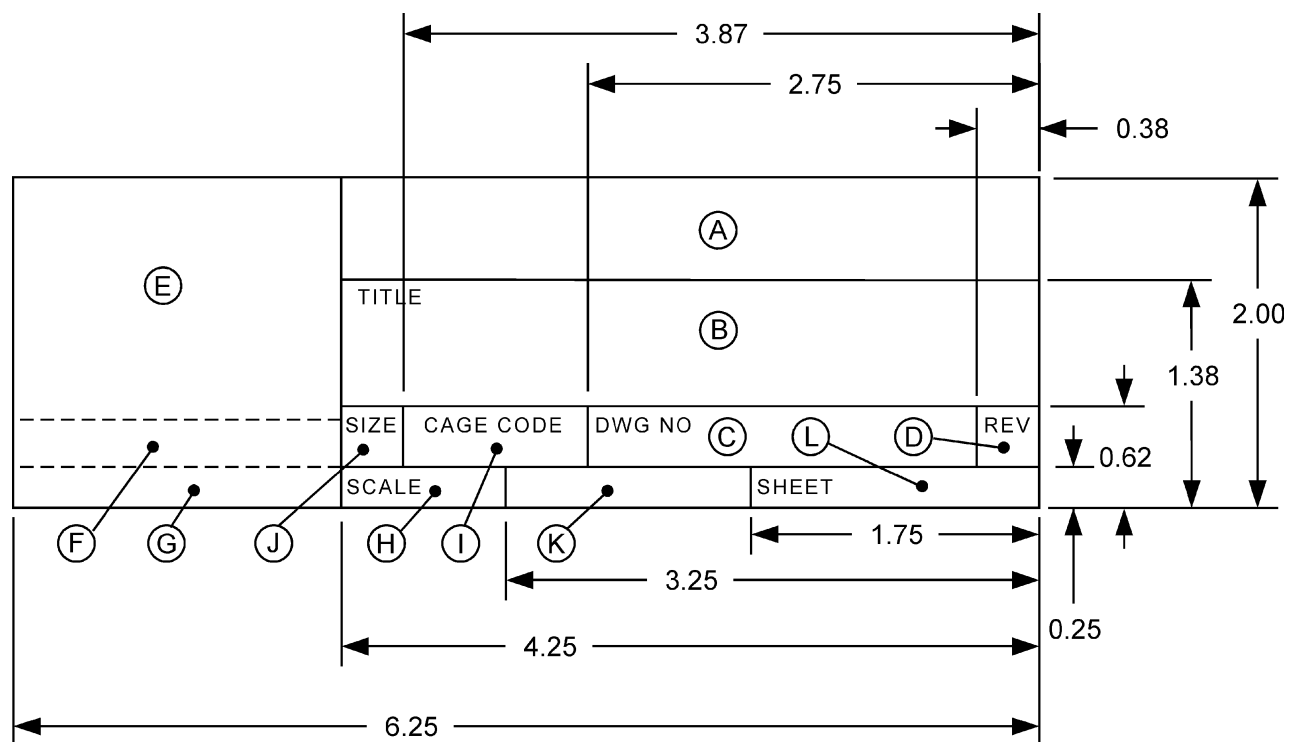
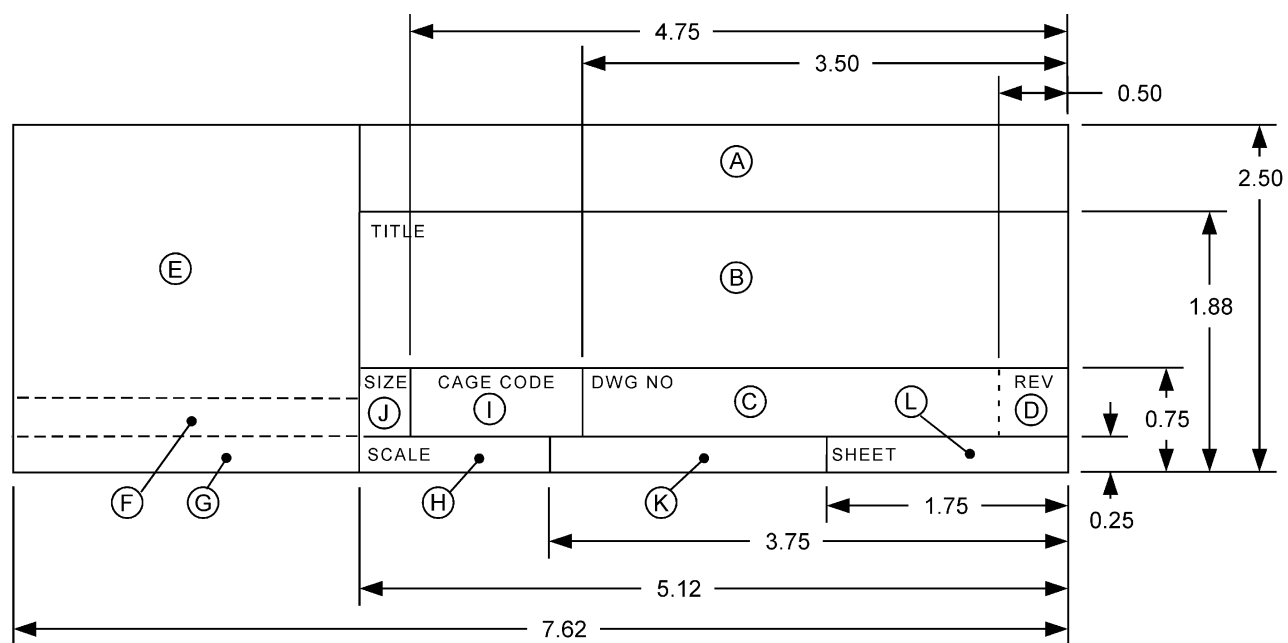


Fig. 3 Roll Size Formats, H, J, and K Sizes



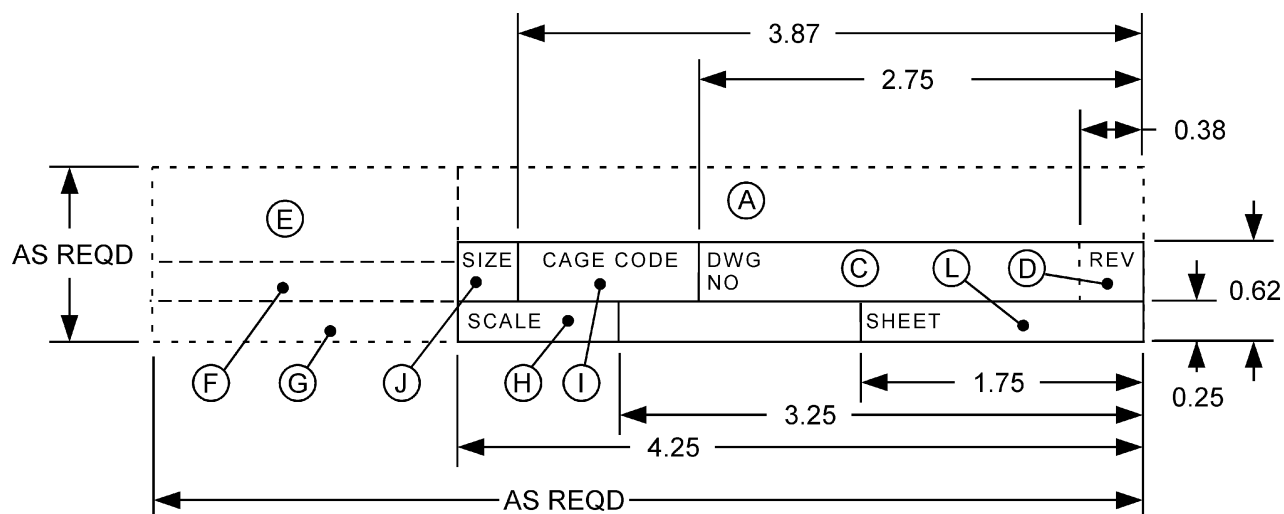
GENERAL NOTE: See para. 4.2 for block letter references.

**Fig. 4 Title Block for A, B, C, and G Sizes**



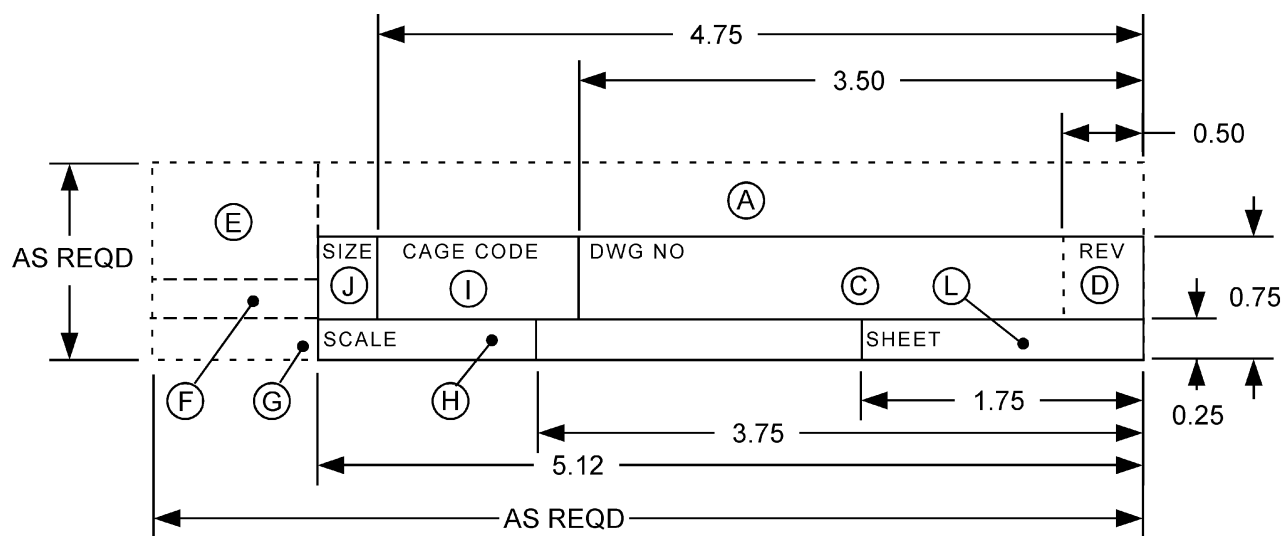
GENERAL NOTE: See para. 4.2 for block letter references.

**Fig. 5 Title Block for D, E, F, H, J, and K Sizes**



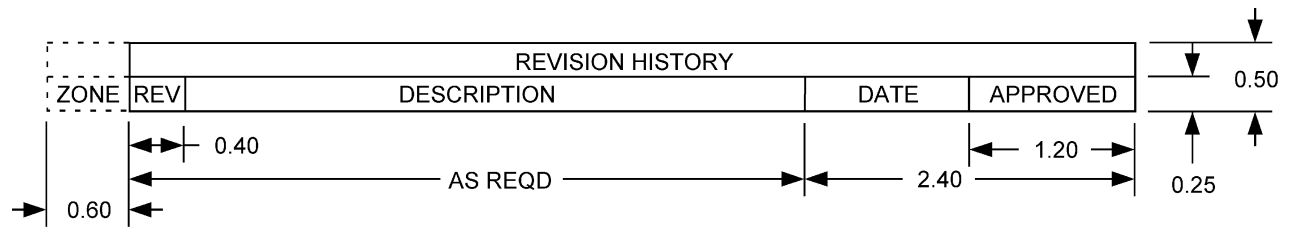
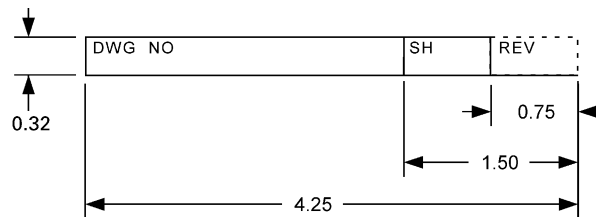
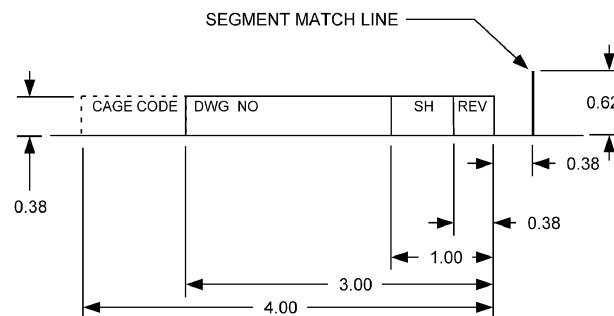
GENERAL NOTE: See para. 4.2 for block letter references.

**Fig. 6 Continuation Sheet Title Block for A, B, C, and G Sizes**



GENERAL NOTE: See para. 4.2 for block letter references.

**Fig. 7 Continuation Sheet Title Block for D, E, F, H, J, and K Sizes**

**Fig. 8 Revision History Block****Fig. 9 Margin Drawing Number Block****Fig. 10 Microfilm Identification Block**

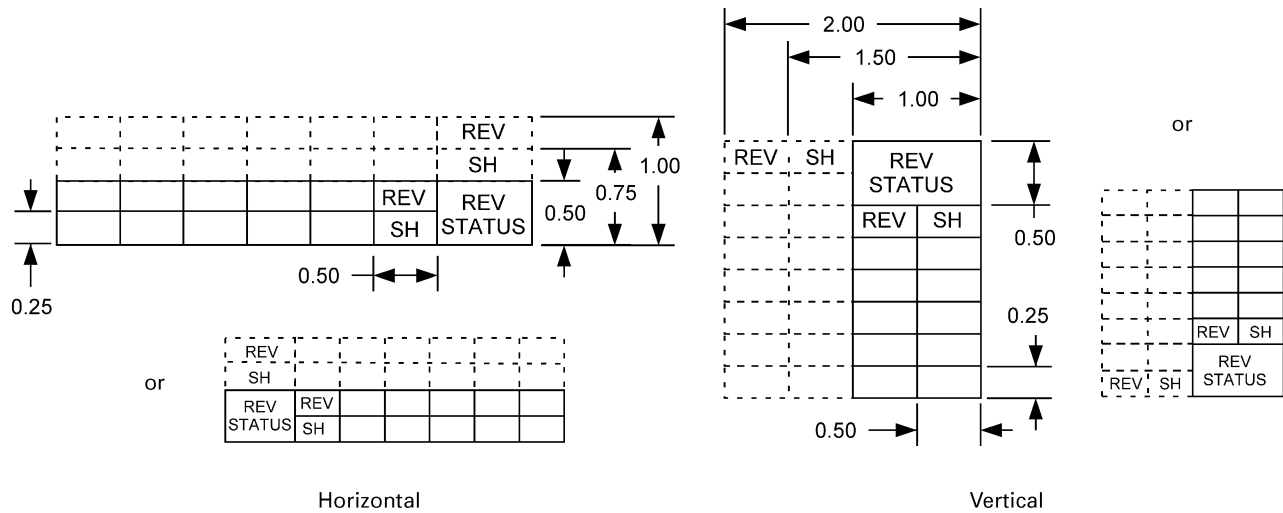


Fig. 11 Revision Status of Sheets Block

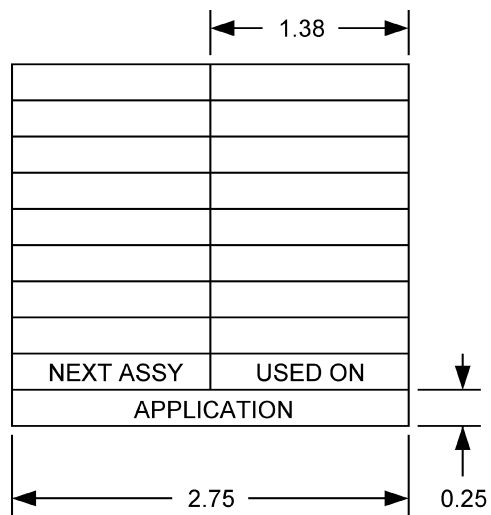


Fig. 12 Application Block

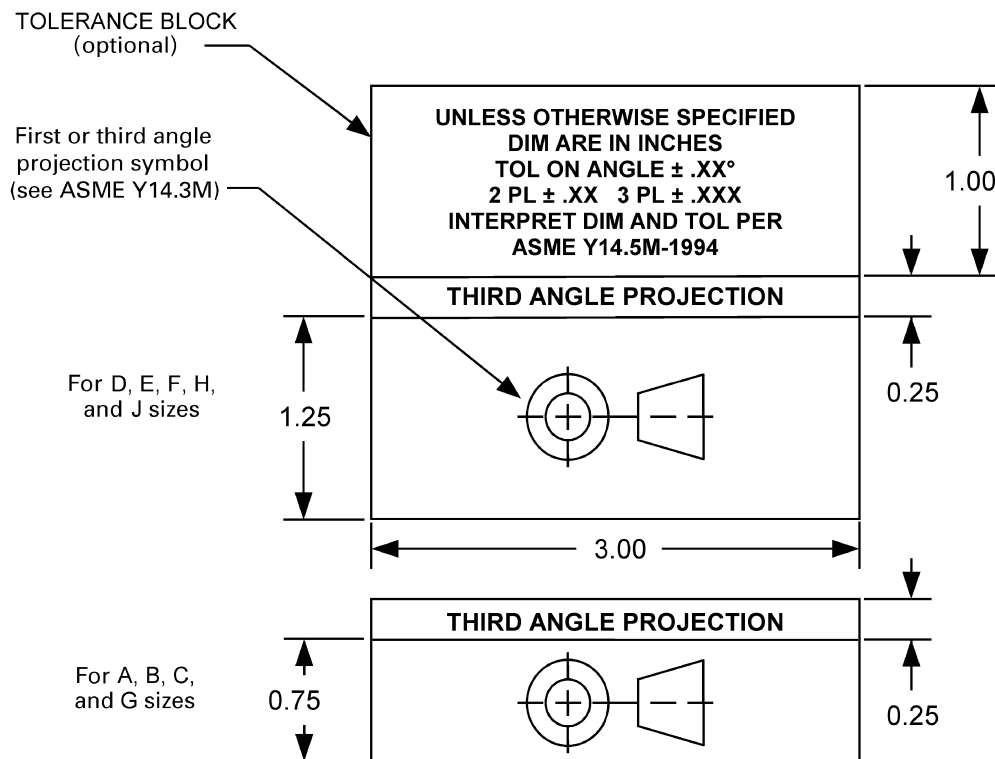


Fig. 13 Tolerance and Projection Blocks

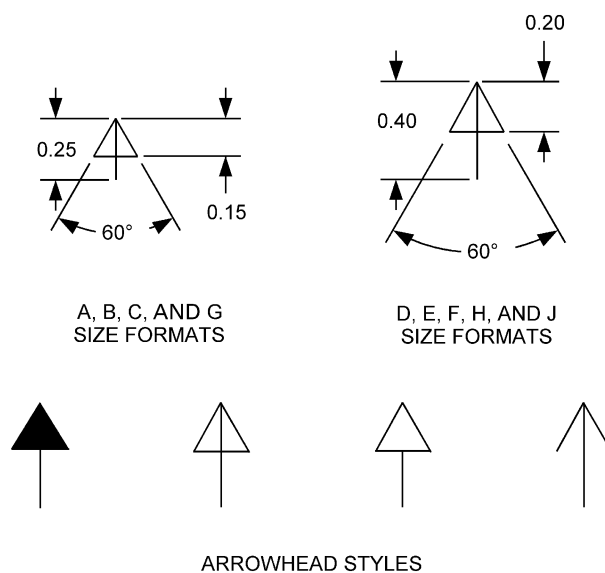


Fig. 14 Microfilm Arrowheads





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