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STANDARD ALPHABETS

FOR HIGHWAY SIGNS

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AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIALS

INSTITUTE OF TRAFFIC ENGINEERS

NATIONAL COMMITTEE ON UNIFORM TRAFFIC LAWS AND ORDINANCES

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
1959

FOR OFFICIAL DISTRIBUTION

REPRINT OF 1945 EDITION, WITHOUT CHANGE

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1. Under certain conditions the radii of connecting arcs cannot be given precisely. In these cases there is only one possible arc that can fit accurately to all controlling points. The dimension given on the drawing is a close approximation, but the draftsman may have to make a slight adjustment to achieve a perfect fit. This applies especially to the large letters, since the dimensions in the tables were generally derived from measurements on smaller drawings.

2. For similar reasons, it is not practical to show the exact centers of all arcs. Centers are invariably indicated for the controlling arcs. For others the draftsman must set his compasses and find the center by experiment.

The stroke-width of the letters and numerals is uniform throughout any size and series of alphabet, except where otherwise definitely indicated.

All characters having an arc at top or bottom are extended slightly above or below the line of the other letters. This is in accord with accepted practice for rounded letters.

If the design of any particular letter or numeral in a given size is incompatible with any manufacturing process, necessary modifications may be made within reasonable limits. For example, the height or length of a horizontal member may have to be adjusted slightly to permit a satisfactory arrangement of reflector buttons, or to provide necessary clearance for embossing dies.

December 1945

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STANDARD ALPHABETS FOR HIGHWAY SIGNS

These Standard Alphabets for Highway Signs have been designed by the U. S. Public Roads Administration at the request of the Joint Committee on Uniform Traffic Control Devices, and have been approved by that committee and its constituent agencies, the American Association of State Highway Officials, the Institute of Traffic Engineers, and the National Conference on Street and Highway Safety. They are intended to replace the old "Joint Board" alphabets published nearly 20 years ago when highway signs were first standardized on a national basis. The new "rounded" style has a more pleasing appearance than the old, and extensive tests have shown it to be consistently more legible.

It is not expected that the new letters and numerals will at once displace the old. Existing highway signs, it is assumed, will not ordinarily be scrapped until the end of their normal life, though there may be desirable exceptions as, for example, where two signs are mounted so closely adjacent that a contrast in letter style would be objectionable.

In individual widths, the new letters and numerals closely approximate the old, so that they are easily interchangeable with the old in standard sign designs.

Most highway departments and sign manufacturers will find it desirable to make up a set of templates of fiber or light metal to simplify the laying out of signs. The letters and numerals may be reproduced in any desired size by following the table of dimensions carried on each sheet of the drawings (or by adjusting dimensions proportionally for sizes not shown), or by a photographic enlargement or reduction of drawings of any size. It is not recommended, however, that photographic enlargements be made from the small printed drawings, which will be found to vary slightly in dimensional accuracy.

Although the new letters and numerals are not quite as simply designed as the more mechanical, rectangular characters of the old Joint Board standards, they are not difficult to reproduce on the drawing board. To facilitate the laying out of different sizes, the detailed dimensions are shown only in a letter code referring to the tabulation at the bottom of each sheet. Tangents, major arcs, and certain indicated control points are laid down first, followed by the connecting arcs of shorter radius. Two circumstances must be noted:

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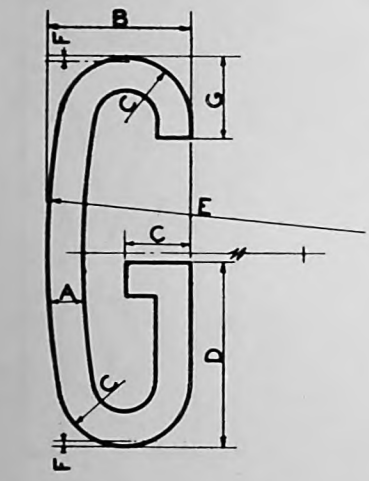

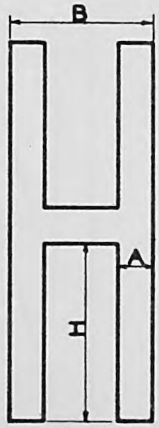

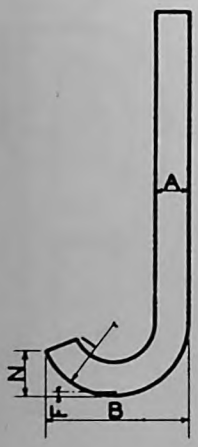

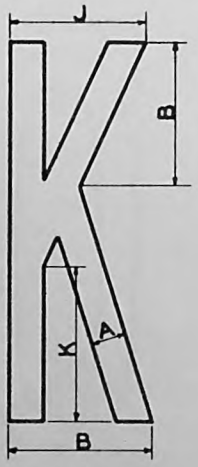

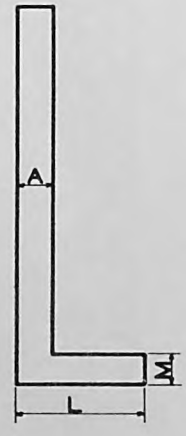

SERIES A LETTERS

HEIGHT (INCHES)	DIMENSIONS (INCHES)													
	A	B	C	D	E	F	G	H	I	J	K	L	M	N
2	$\frac{3}{16}$	$\frac{3}{4}$	$\frac{11}{32}$	$\frac{31}{32}$	$4\frac{1}{2}$	$\frac{1}{32}$	$\frac{7}{16}$	$\frac{15}{16}$	$\frac{29}{64}$	$\frac{23}{32}$	$\frac{13}{16}$	$\frac{43}{64}$	$\frac{11}{64}$	$\frac{1}{4}$
3	$\frac{9}{32}$	$1\frac{1}{8}$	$\frac{33}{64}$	$1\frac{29}{64}$	$6\frac{3}{4}$	$\frac{3}{64}$	$\frac{21}{32}$	$1\frac{13}{32}$	$\frac{37}{64}$	$1\frac{5}{64}$	$1\frac{7}{32}$	1	$\frac{1}{4}$	$\frac{3}{8}$
4	$\frac{3}{8}$	$1\frac{1}{2}$	$\frac{11}{16}$	$1\frac{15}{16}$	9	$\frac{1}{16}$	$\frac{7}{8}$	$1\frac{7}{8}$	$\frac{25}{32}$	$1\frac{7}{16}$	$1\frac{5}{8}$	$1\frac{11}{32}$	$\frac{11}{32}$	$\frac{1}{2}$
5	$\frac{15}{32}$	$1\frac{7}{8}$	$\frac{55}{64}$	$2\frac{27}{64}$	$11\frac{1}{4}$	$\frac{5}{64}$	$1\frac{3}{32}$	$2\frac{11}{32}$	$\frac{31}{32}$	$1\frac{51}{64}$	$2\frac{1}{32}$	$1\frac{43}{64}$	$\frac{27}{64}$	$\frac{5}{8}$
6	$\frac{9}{16}$	$2\frac{1}{4}$	$1\frac{1}{32}$	$2\frac{29}{32}$	$13\frac{1}{2}$	$\frac{3}{32}$	$1\frac{5}{16}$	$2\frac{13}{16}$	$1\frac{11}{64}$	$2\frac{5}{32}$	$2\frac{7}{16}$	$2\frac{1}{64}$	$\frac{33}{64}$	$\frac{3}{4}$
7	$\frac{21}{32}$	$2\frac{5}{8}$	$1\frac{13}{64}$	$3\frac{25}{64}$	$15\frac{3}{4}$	$\frac{7}{64}$	$1\frac{17}{32}$	$3\frac{9}{32}$	$1\frac{23}{64}$	$2\frac{33}{64}$	$2\frac{27}{32}$	$2\frac{11}{32}$	$\frac{19}{32}$	$\frac{7}{8}$
8	$\frac{3}{4}$	3	$1\frac{3}{8}$	$3\frac{7}{8}$	18	$\frac{1}{8}$	$1\frac{3}{4}$	$3\frac{3}{4}$	$1\frac{9}{16}$	$2\frac{7}{8}$	$3\frac{1}{4}$	$2\frac{11}{16}$	$\frac{11}{16}$	1
12	$1\frac{1}{8}$	$4\frac{1}{2}$	$2\frac{1}{16}$	$5\frac{13}{16}$	27	$\frac{3}{16}$	$2\frac{5}{8}$	$5\frac{5}{8}$	$2\frac{11}{32}$	$4\frac{5}{16}$	$4\frac{7}{8}$	$4\frac{1}{32}$	$1\frac{1}{32}$	$1\frac{1}{2}$
18	$1\frac{11}{16}$	$6\frac{3}{4}$	$3\frac{3}{32}$	$8\frac{23}{32}$	$40\frac{1}{2}$	$\frac{9}{32}$	$3\frac{15}{16}$	$8\frac{7}{16}$	$3\frac{33}{64}$	$6\frac{15}{32}$	$7\frac{5}{16}$	$6\frac{1}{16}$	$1\frac{9}{16}$	$2\frac{1}{4}$

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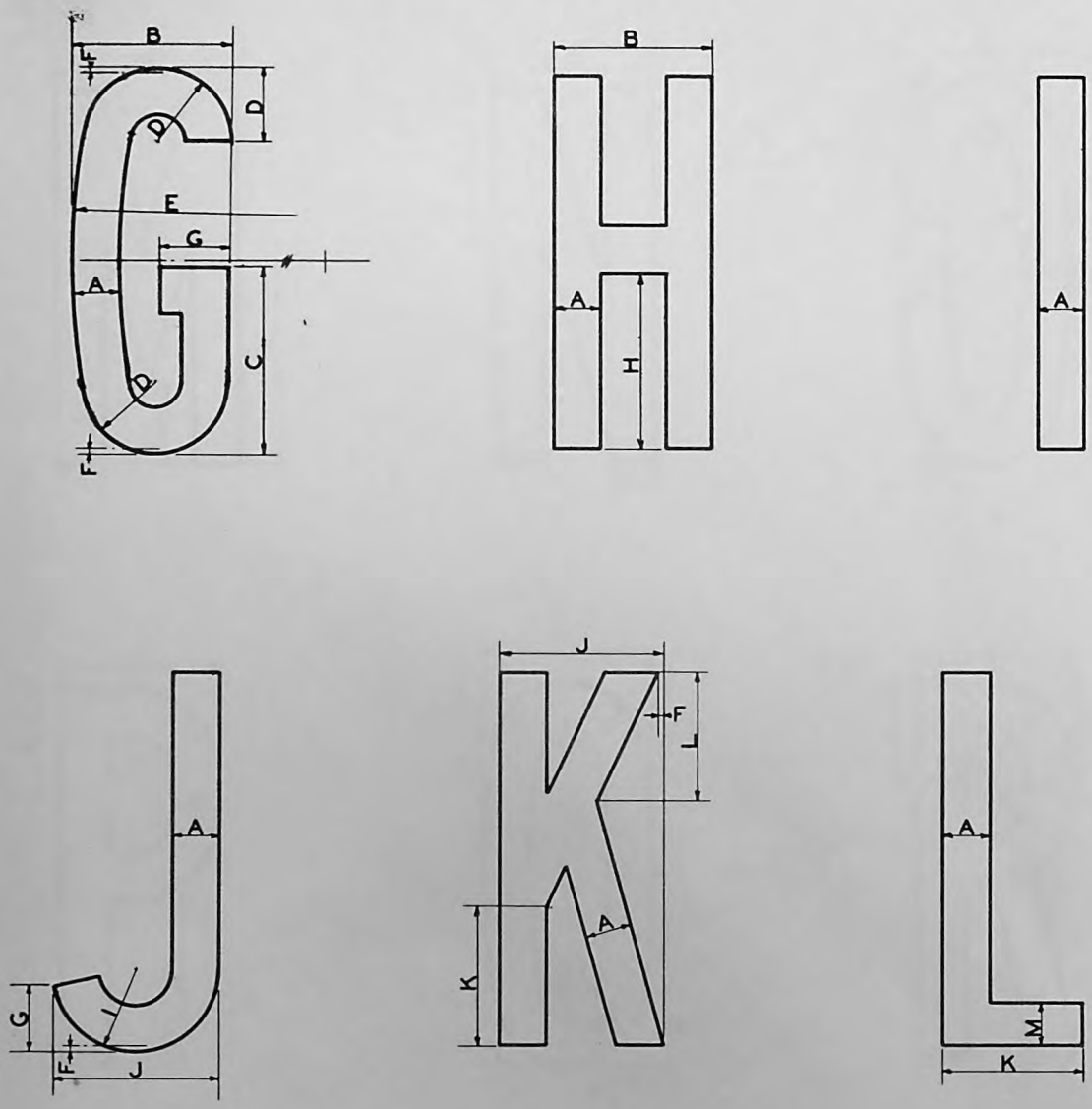

SERIES B LETTERS

HEIGHT (INCHES)	DIMENSIONS (INCHES)												
	A	B	C	D	E	F	G	H	I	J	K	L	M
2	$\frac{9}{32}$	$\frac{27}{32}$	1	$\frac{25}{64}$	4	$\frac{1}{32}$	$\frac{3}{8}$	$\frac{15}{16}$	$\frac{7}{16}$	$\frac{7}{8}$	$\frac{3}{4}$	$\frac{11}{16}$	$\frac{15}{64}$
3	$\frac{27}{64}$	$1\frac{17}{64}$	$1\frac{1}{2}$	$\frac{37}{64}$	6	$\frac{3}{64}$	$\frac{9}{16}$	$1\frac{13}{32}$	$\frac{21}{32}$	$1\frac{5}{16}$	$1\frac{1}{8}$	$1\frac{1}{32}$	$\frac{11}{32}$
4	$\frac{9}{16}$	$1\frac{11}{16}$	2	$\frac{25}{32}$	8	$\frac{1}{16}$	$\frac{3}{4}$	$1\frac{7}{8}$	$\frac{7}{8}$	$1\frac{3}{4}$	$1\frac{1}{2}$	$1\frac{3}{8}$	$\frac{15}{32}$
5	$\frac{45}{64}$	$2\frac{7}{64}$	$2\frac{1}{2}$	$\frac{31}{32}$	10	$\frac{5}{64}$	$\frac{15}{16}$	$2\frac{11}{32}$	$1\frac{3}{32}$	$2\frac{3}{16}$	$1\frac{7}{8}$	$1\frac{23}{32}$	$\frac{37}{64}$
6	$\frac{27}{32}$	$2\frac{17}{32}$	3	$1\frac{11}{64}$	12	$\frac{3}{32}$	$1\frac{1}{8}$	$2\frac{13}{16}$	$1\frac{5}{16}$	$2\frac{5}{8}$	$2\frac{1}{4}$	$2\frac{1}{16}$	$\frac{45}{64}$
7	$\frac{63}{64}$	$2\frac{61}{64}$	$3\frac{1}{2}$	$1\frac{23}{64}$	14	$\frac{7}{64}$	$1\frac{5}{16}$	$3\frac{9}{32}$	$1\frac{17}{32}$	$3\frac{1}{16}$	$2\frac{5}{8}$	$2\frac{13}{32}$	$\frac{13}{16}$
8	$1\frac{1}{8}$	$3\frac{3}{8}$	4	$1\frac{9}{16}$	16	$\frac{1}{8}$	$1\frac{1}{2}$	$3\frac{3}{4}$	$1\frac{3}{4}$	$3\frac{1}{2}$	3	$2\frac{3}{4}$	$\frac{15}{16}$
12	$1\frac{11}{16}$	$5\frac{1}{16}$	6	$2\frac{11}{32}$	24	$\frac{3}{16}$	$2\frac{1}{4}$	$5\frac{5}{8}$	$2\frac{5}{8}$	$5\frac{1}{4}$	$4\frac{1}{2}$	$4\frac{1}{8}$	$1\frac{13}{32}$
18	$2\frac{33}{64}$	$7\frac{19}{32}$	9	$3\frac{1}{2}$	36	$\frac{9}{32}$	$3\frac{3}{8}$	$8\frac{7}{16}$	$3\frac{15}{16}$	$7\frac{7}{8}$	$6\frac{3}{4}$	$6\frac{3}{16}$	$2\frac{1}{8}$

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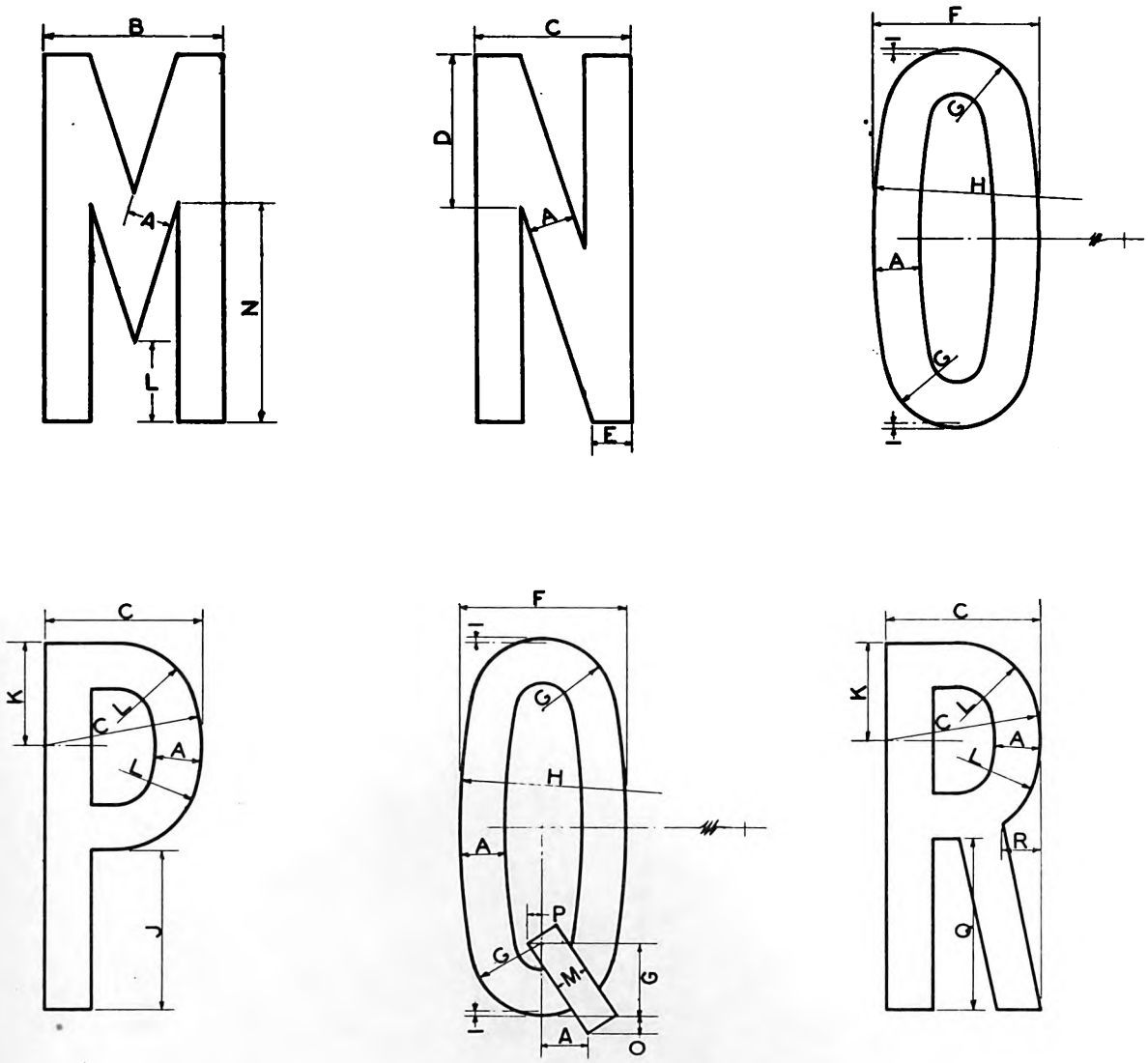

SERIES B LETTERS

HEIGHT (INCHES)	DIMENSIONS (INCHES)																	
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
2	$\frac{9}{32}$	$\frac{31}{32}$	$\frac{27}{32}$	$\frac{13}{16}$	$\frac{7}{32}$	$\frac{29}{32}$	$\frac{25}{64}$	4	$\frac{1}{32}$	$\frac{7}{8}$	$\frac{17}{32}$	$\frac{7}{16}$	$\frac{3}{16}$	$1\frac{3}{16}$	$\frac{3}{32}$	$\frac{5}{64}$	$\frac{15}{16}$	$\frac{13}{64}$
3	$\frac{27}{64}$	$1\frac{29}{64}$	$1\frac{17}{64}$	$1\frac{7}{32}$	$\frac{21}{64}$	$1\frac{23}{64}$	$\frac{37}{64}$	6	$\frac{3}{64}$	$1\frac{5}{16}$	$\frac{51}{64}$	$\frac{21}{32}$	$\frac{9}{32}$	$1\frac{25}{32}$	$\frac{9}{64}$	$\frac{7}{64}$	$1\frac{13}{32}$	$\frac{19}{64}$
4	$\frac{9}{16}$	$1\frac{15}{16}$	$1\frac{11}{16}$	$1\frac{5}{8}$	$\frac{7}{16}$	$1\frac{13}{16}$	$\frac{25}{32}$	8	$\frac{1}{16}$	$1\frac{3}{4}$	$1\frac{1}{16}$	$\frac{7}{8}$	$\frac{3}{8}$	$2\frac{3}{8}$	$\frac{3}{16}$	$\frac{5}{32}$	$1\frac{7}{8}$	$\frac{13}{32}$
5	$\frac{45}{64}$	$2\frac{27}{64}$	$2\frac{7}{64}$	$2\frac{1}{32}$	$\frac{35}{64}$	$2\frac{17}{64}$	$\frac{31}{32}$	10	$\frac{5}{64}$	$2\frac{3}{16}$	$1\frac{21}{64}$	$1\frac{3}{32}$	$\frac{15}{32}$	$2\frac{31}{32}$	$\frac{15}{64}$	$\frac{3}{16}$	$2\frac{11}{32}$	$\frac{1}{2}$
6	$\frac{27}{32}$	$2\frac{29}{32}$	$2\frac{17}{32}$	$2\frac{7}{16}$	$\frac{21}{32}$	$2\frac{23}{32}$	$1\frac{11}{64}$	12	$\frac{3}{32}$	$2\frac{5}{8}$	$1\frac{19}{32}$	$1\frac{5}{16}$	$\frac{9}{16}$	$3\frac{9}{16}$	$\frac{9}{32}$	$\frac{15}{64}$	$2\frac{13}{16}$	$\frac{39}{64}$
7	$\frac{63}{64}$	$3\frac{25}{64}$	$2\frac{61}{64}$	$2\frac{27}{32}$	$\frac{49}{64}$	$3\frac{11}{64}$	$1\frac{23}{64}$	14	$\frac{7}{64}$	$3\frac{1}{16}$	$1\frac{55}{64}$	$1\frac{17}{32}$	$\frac{21}{32}$	$4\frac{5}{32}$	$\frac{21}{64}$	$\frac{17}{64}$	$3\frac{9}{32}$	$\frac{45}{64}$
8	$1\frac{1}{8}$	$3\frac{7}{8}$	$3\frac{3}{8}$	$3\frac{1}{4}$	$\frac{7}{8}$	$3\frac{5}{8}$	$1\frac{9}{16}$	16	$\frac{1}{8}$	$3\frac{1}{2}$	$2\frac{1}{8}$	$1\frac{3}{4}$	$\frac{3}{4}$	$4\frac{3}{4}$	$\frac{3}{8}$	$\frac{5}{16}$	$3\frac{3}{4}$	$\frac{13}{16}$
12	$1\frac{11}{16}$	$5\frac{13}{16}$	$5\frac{1}{16}$	$4\frac{7}{8}$	$1\frac{5}{16}$	$5\frac{7}{16}$	$2\frac{11}{32}$	24	$\frac{3}{16}$	$5\frac{1}{4}$	$3\frac{3}{16}$	$2\frac{5}{8}$	$1\frac{1}{8}$	$7\frac{1}{8}$	$\frac{9}{16}$	$\frac{15}{32}$	$5\frac{5}{8}$	$1\frac{7}{32}$
18	$2\frac{33}{64}$	$8\frac{23}{32}$	$7\frac{19}{32}$	$7\frac{5}{16}$	$1\frac{31}{32}$	$8\frac{5}{32}$	$3\frac{1}{2}$	36	$\frac{9}{32}$	$7\frac{7}{8}$	$4\frac{25}{32}$	$3\frac{15}{16}$	$1\frac{11}{16}$	$10\frac{11}{16}$	$\frac{27}{32}$	$\frac{11}{16}$	$8\frac{7}{16}$	$1\frac{13}{16}$

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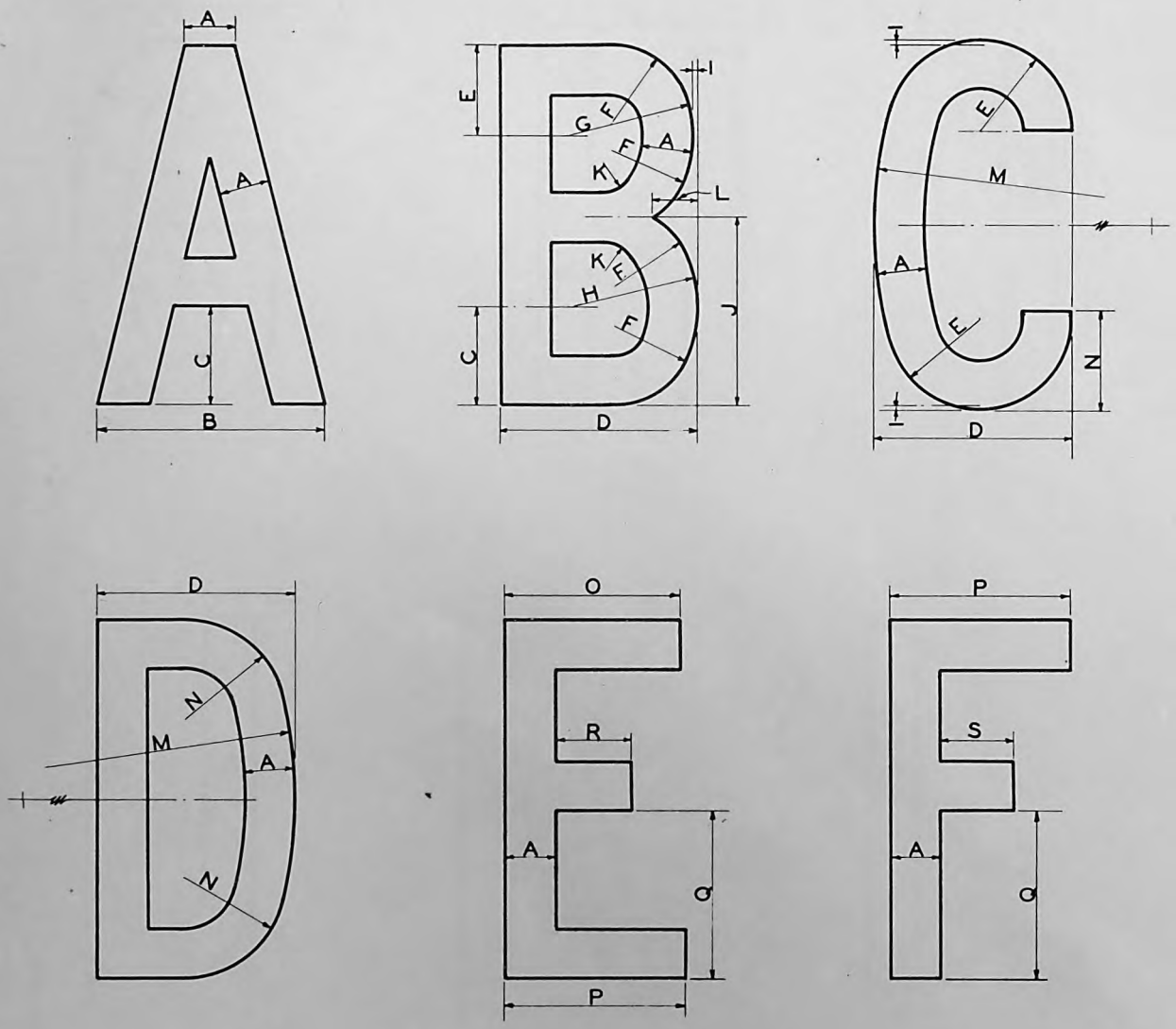

SERIES C LETTERS

HEIGHT (INCHES)	DIMENSIONS (INCHES)																		
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
2	$\frac{21}{64}$	$1\frac{1}{4}$	$\frac{35}{64}$	$1\frac{3}{32}$	$\frac{1}{2}$	$\frac{7}{16}$	$\frac{11}{16}$	$\frac{23}{32}$	$\frac{1}{32}$	$1\frac{3}{64}$	$\frac{5}{32}$	$\frac{1}{4}$	$2\frac{1}{2}$	$\frac{9}{16}$	$\frac{31}{32}$	1	$\frac{15}{16}$	$\frac{27}{64}$	$\frac{13}{32}$
3	$\frac{31}{64}$	$1\frac{7}{8}$	$\frac{13}{16}$	$1\frac{41}{64}$	$\frac{3}{4}$	$\frac{21}{32}$	$1\frac{1}{32}$	$1\frac{5}{64}$	$\frac{3}{64}$	$1\frac{9}{16}$	$\frac{15}{64}$	$\frac{3}{8}$	$3\frac{3}{4}$	$\frac{27}{32}$	$1\frac{29}{64}$	$1\frac{1}{2}$	$1\frac{13}{32}$	$\frac{5}{8}$	$\frac{39}{64}$
4	$\frac{41}{64}$	$2\frac{1}{2}$	$1\frac{3}{32}$	$2\frac{3}{16}$	$1\frac{1}{64}$	$\frac{7}{8}$	$1\frac{3}{8}$	$1\frac{7}{16}$	$\frac{1}{16}$	$2\frac{3}{32}$	$\frac{5}{16}$	$\frac{1}{2}$	5	$1\frac{1}{8}$	$1\frac{15}{16}$	2	$1\frac{7}{8}$	$\frac{27}{32}$	$\frac{13}{16}$
5	$\frac{51}{64}$	$3\frac{1}{8}$	$1\frac{23}{64}$	$2\frac{47}{64}$	$1\frac{17}{64}$	$1\frac{3}{32}$	$1\frac{23}{32}$	$1\frac{51}{64}$	$\frac{5}{64}$	$2\frac{39}{64}$	$\frac{25}{64}$	$\frac{5}{8}$	$6\frac{1}{4}$	$1\frac{13}{32}$	$2\frac{27}{64}$	$2\frac{1}{2}$	$2\frac{11}{32}$	$1\frac{3}{64}$	$1\frac{1}{64}$
6	$\frac{31}{32}$	$3\frac{3}{4}$	$1\frac{41}{64}$	$3\frac{9}{32}$	$1\frac{33}{64}$	$1\frac{5}{16}$	$2\frac{1}{16}$	$2\frac{5}{32}$	$\frac{3}{32}$	$3\frac{9}{64}$	$\frac{15}{32}$	$\frac{3}{4}$	$7\frac{1}{2}$	$1\frac{11}{16}$	$2\frac{29}{32}$	3	$2\frac{13}{16}$	$1\frac{17}{64}$	$1\frac{7}{32}$
7	$1\frac{1}{8}$	$4\frac{3}{8}$	$1\frac{29}{32}$	$3\frac{53}{64}$	$1\frac{49}{64}$	$1\frac{17}{32}$	$2\frac{13}{32}$	$2\frac{33}{64}$	$\frac{7}{64}$	$3\frac{21}{32}$	$\frac{35}{64}$	$\frac{7}{8}$	$8\frac{3}{4}$	$1\frac{31}{32}$	$3\frac{25}{64}$	$3\frac{1}{2}$	$3\frac{9}{32}$	$1\frac{15}{32}$	$1\frac{27}{64}$
8	$1\frac{9}{32}$	5	$2\frac{3}{16}$	$4\frac{3}{8}$	$2\frac{1}{32}$	$1\frac{3}{4}$	$2\frac{3}{4}$	$2\frac{7}{8}$	$\frac{1}{8}$	$4\frac{3}{16}$	$\frac{5}{8}$	1	10	$2\frac{1}{4}$	$3\frac{7}{8}$	4	$3\frac{3}{4}$	$1\frac{11}{16}$	$1\frac{5}{8}$
12	$1\frac{59}{64}$	$7\frac{1}{2}$	$3\frac{9}{32}$	$6\frac{9}{16}$	$3\frac{3}{64}$	$2\frac{5}{8}$	$4\frac{1}{8}$	$4\frac{5}{16}$	$\frac{3}{16}$	$6\frac{9}{32}$	$\frac{15}{16}$	$1\frac{1}{2}$	15	$3\frac{3}{8}$	$5\frac{13}{16}$	6	$5\frac{5}{8}$	$2\frac{17}{32}$	$2\frac{7}{16}$
18	$2\frac{57}{64}$	$11\frac{1}{4}$	$4\frac{15}{16}$	$9\frac{27}{32}$	$4\frac{9}{16}$	$3\frac{15}{16}$	$6\frac{3}{16}$	$6\frac{15}{32}$	$\frac{9}{32}$	$9\frac{7}{16}$	$1\frac{13}{32}$	$2\frac{1}{4}$	$22\frac{1}{2}$	$5\frac{1}{16}$	$8\frac{23}{32}$	9	$8\frac{7}{16}$	$3\frac{13}{16}$	$3\frac{21}{32}$

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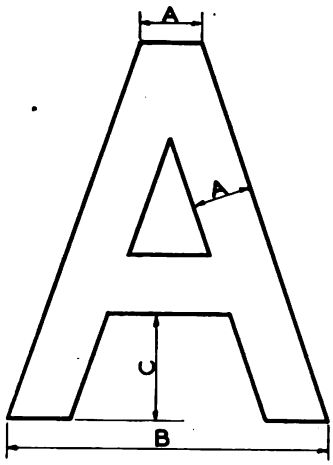

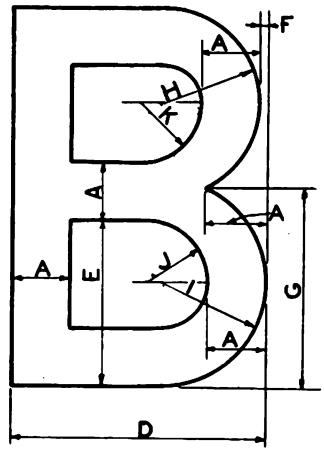

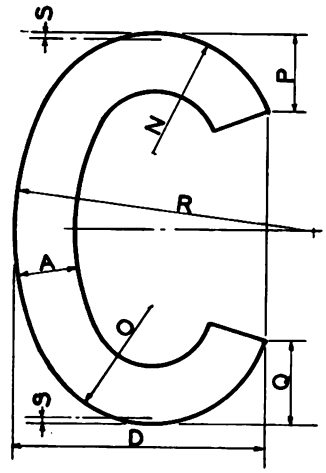

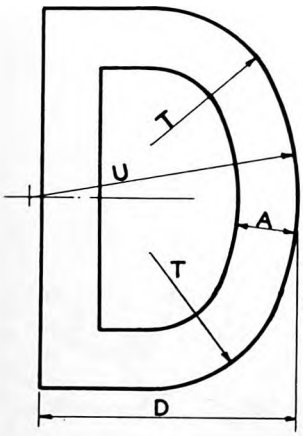

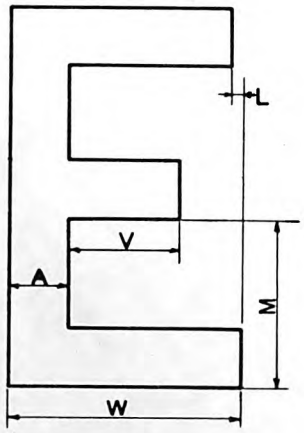

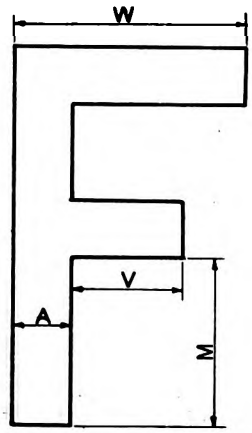

SERIES D LETTERS

HEIGHT (INCHES)	DIMENSIONS (INCHES)																					
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
2	$\frac{23}{64}$	$1\frac{43}{64}$	$\frac{9}{16}$	$1\frac{11}{32}$	$\frac{7}{8}$	$\frac{3}{64}$	$1\frac{3}{64}$	$\frac{1}{2}$	$\frac{35}{64}$	$\frac{21}{64}$	$\frac{5}{16}$	$\frac{1}{16}$	$\frac{7}{8}$	$\frac{21}{32}$	$\frac{41}{64}$	$\frac{13}{32}$	$\frac{7}{16}$	$1\frac{9}{16}$	$\frac{1}{32}$	$\frac{23}{32}$	$1\frac{13}{32}$	$\frac{37}{64}$	$1\frac{7}{32}$
3	$\frac{35}{64}$	$2\frac{1}{2}$	$\frac{27}{32}$	$2\frac{1}{64}$	$1\frac{5}{16}$	$\frac{1}{16}$	$1\frac{9}{16}$	$\frac{3}{4}$	$\frac{13}{16}$	$\frac{31}{64}$	$\frac{15}{32}$	$\frac{3}{32}$	$1\frac{5}{16}$	$\frac{63}{64}$	$\frac{61}{64}$	$\frac{39}{64}$	$\frac{21}{32}$	$2\frac{3}{8}$	$\frac{3}{64}$	$1\frac{5}{64}$	$2\frac{7}{64}$	$\frac{55}{64}$	$1\frac{53}{64}$
4	$\frac{23}{32}$	$3\frac{11}{32}$	$1\frac{1}{8}$	$2\frac{11}{16}$	$1\frac{3}{4}$	$\frac{3}{32}$	$2\frac{3}{32}$	1	$1\frac{3}{32}$	$\frac{21}{32}$	$\frac{5}{8}$	$\frac{1}{8}$	$1\frac{3}{4}$	$1\frac{5}{16}$	$1\frac{9}{32}$	$\frac{13}{16}$	$\frac{7}{8}$	$3\frac{5}{32}$	$\frac{1}{16}$	$1\frac{7}{16}$	$2\frac{13}{16}$	$1\frac{5}{32}$	$2\frac{7}{16}$
5	$\frac{29}{32}$	$4\frac{3}{16}$	$1\frac{13}{32}$	$3\frac{23}{64}$	$2\frac{3}{16}$	$\frac{7}{64}$	$2\frac{39}{64}$	$1\frac{1}{4}$	$1\frac{23}{64}$	$\frac{13}{16}$	$\frac{25}{32}$	$\frac{5}{32}$	$2\frac{3}{16}$	$1\frac{41}{64}$	$1\frac{19}{32}$	$1\frac{1}{64}$	$1\frac{3}{32}$	$3\frac{15}{16}$	$\frac{5}{64}$	$1\frac{51}{64}$	$3\frac{1}{2}$	$1\frac{7}{16}$	$3\frac{3}{64}$
6	$1\frac{5}{64}$	$5\frac{1}{64}$	$1\frac{11}{16}$	$4\frac{1}{32}$	$2\frac{5}{8}$	$\frac{9}{64}$	$3\frac{9}{64}$	$1\frac{1}{2}$	$1\frac{41}{64}$	$\frac{63}{64}$	$\frac{15}{16}$	$\frac{3}{16}$	$2\frac{5}{8}$	$1\frac{31}{32}$	$1\frac{59}{64}$	$1\frac{7}{32}$	$1\frac{5}{16}$	$4\frac{3}{4}$	$\frac{3}{32}$	$2\frac{5}{32}$	$4\frac{7}{32}$	$1\frac{47}{64}$	$3\frac{21}{32}$
7	$1\frac{17}{64}$	$5\frac{27}{32}$	$1\frac{31}{32}$	$4\frac{45}{64}$	$3\frac{1}{16}$	$\frac{5}{32}$	$3\frac{21}{32}$	$1\frac{3}{4}$	$1\frac{29}{32}$	$1\frac{9}{64}$	$1\frac{3}{32}$	$\frac{7}{32}$	$3\frac{1}{16}$	$2\frac{19}{64}$	$2\frac{15}{64}$	$1\frac{27}{64}$	$1\frac{17}{32}$	$5\frac{17}{32}$	$\frac{7}{64}$	$2\frac{33}{64}$	$4\frac{59}{64}$	$2\frac{1}{64}$	$4\frac{17}{64}$
8	$1\frac{7}{16}$	$6\frac{11}{16}$	$2\frac{1}{4}$	$5\frac{3}{8}$	$3\frac{1}{2}$	$\frac{3}{16}$	$4\frac{3}{16}$	2	$2\frac{3}{16}$	$1\frac{5}{16}$	$1\frac{1}{4}$	$\frac{1}{4}$	$3\frac{1}{2}$	$2\frac{5}{8}$	$2\frac{9}{16}$	$1\frac{5}{8}$	$1\frac{3}{4}$	$6\frac{5}{16}$	$\frac{1}{8}$	$2\frac{7}{8}$	$5\frac{5}{8}$	$2\frac{5}{16}$	$4\frac{7}{8}$
12	$2\frac{5}{32}$	$10\frac{1}{32}$	$3\frac{3}{8}$	$8\frac{1}{16}$	$5\frac{1}{4}$	$\frac{9}{32}$	$6\frac{9}{32}$	3	$3\frac{9}{32}$	$1\frac{31}{32}$	$1\frac{7}{8}$	$\frac{3}{8}$	$5\frac{1}{4}$	$3\frac{15}{16}$	$3\frac{27}{32}$	$2\frac{7}{16}$	$2\frac{5}{8}$	$9\frac{15}{32}$	$\frac{3}{16}$	$4\frac{5}{16}$	$8\frac{7}{16}$	$3\frac{15}{32}$	$7\frac{5}{16}$
18	$3\frac{15}{64}$	$15\frac{1}{16}$	$5\frac{1}{16}$	$12\frac{3}{32}$	$7\frac{7}{8}$	$\frac{7}{16}$	$9\frac{7}{16}$	$4\frac{1}{2}$	$4\frac{15}{16}$	$2\frac{15}{16}$	$2\frac{13}{16}$	$\frac{9}{16}$	$7\frac{7}{8}$	$5\frac{29}{32}$	$5\frac{3}{4}$	$3\frac{21}{32}$	$3\frac{15}{16}$	$14\frac{3}{16}$	$\frac{9}{32}$	$6\frac{15}{32}$	$12\frac{21}{32}$	$5\frac{3}{16}$	$10\frac{31}{32}$

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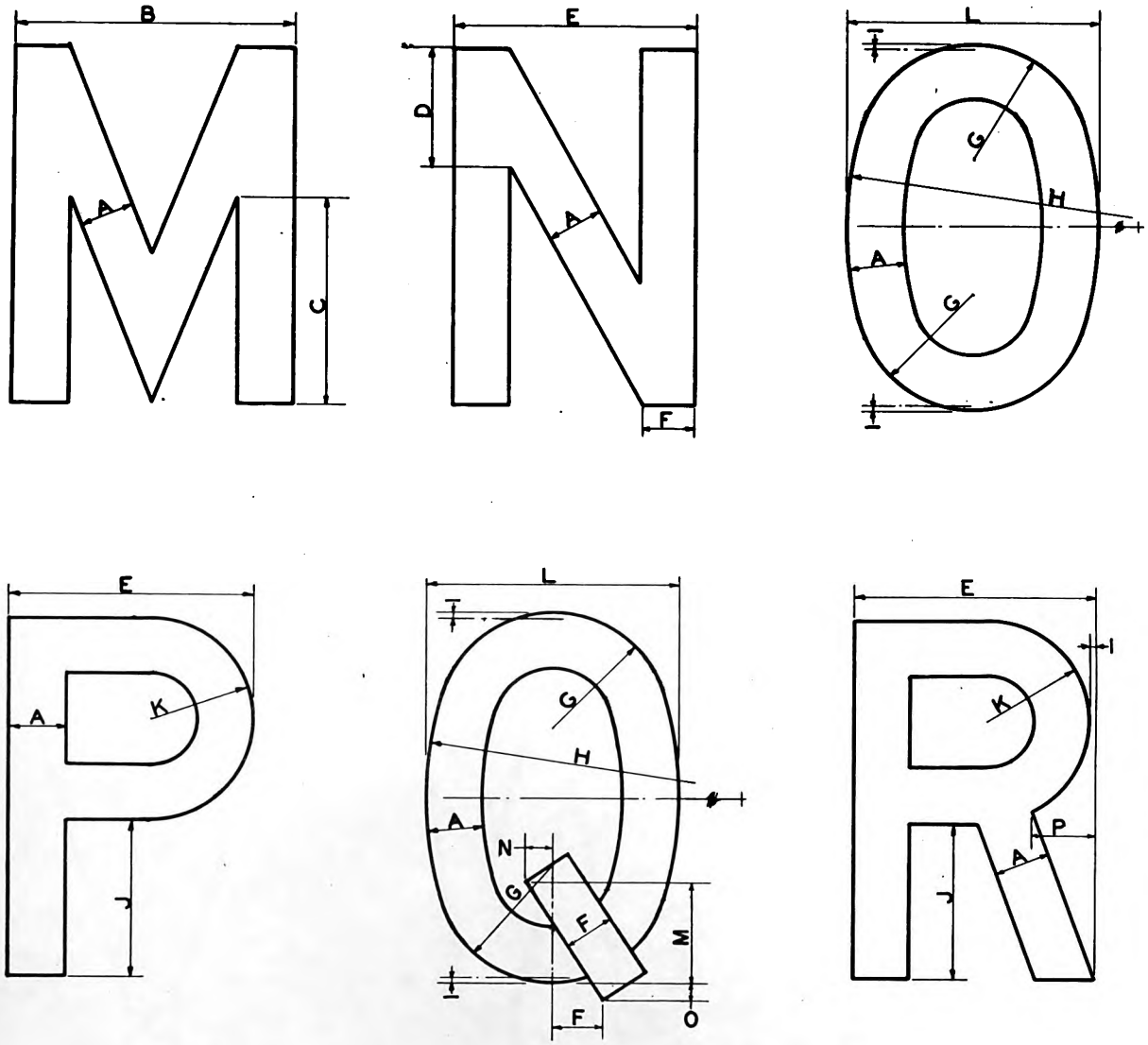

SERIES D LETTERS

HEIGHT (INCHES)	DIMENSIONS (INCHES)															
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
2	$\frac{23}{64}$	$1\frac{35}{64}$	$1\frac{5}{32}$	$\frac{43}{64}$	$1\frac{11}{32}$	$\frac{9}{32}$	$\frac{41}{64}$	2	$\frac{1}{32}$	$\frac{7}{8}$	$\frac{9}{16}$	$1\frac{13}{32}$	$\frac{9}{16}$	$\frac{5}{32}$	$\frac{3}{32}$	$\frac{11}{32}$
3	$\frac{35}{64}$	$2\frac{5}{16}$	$1\frac{47}{64}$	1	$2\frac{1}{64}$	$\frac{27}{64}$	$\frac{61}{64}$	3	$\frac{3}{64}$	$1\frac{5}{16}$	$\frac{27}{32}$	$2\frac{7}{64}$	$\frac{27}{32}$	$\frac{15}{64}$	$\frac{9}{64}$	$\frac{33}{64}$
4	$\frac{23}{32}$	$3\frac{3}{32}$	$2\frac{5}{16}$	$1\frac{11}{32}$	$2\frac{11}{16}$	$\frac{9}{16}$	$1\frac{9}{32}$	4	$\frac{1}{16}$	$1\frac{3}{4}$	$1\frac{1}{8}$	$2\frac{13}{16}$	$1\frac{1}{8}$	$\frac{5}{16}$	$\frac{3}{16}$	$\frac{11}{16}$
5	$\frac{29}{32}$	$3\frac{55}{64}$	$2\frac{57}{64}$	$1\frac{43}{64}$	$3\frac{23}{64}$	$\frac{45}{64}$	$1\frac{19}{32}$	5	$\frac{5}{64}$	$2\frac{3}{16}$	$1\frac{13}{32}$	$3\frac{1}{2}$	$1\frac{13}{32}$	$\frac{25}{64}$	$\frac{15}{64}$	$\frac{55}{64}$
6	$1\frac{8}{64}$	$4\frac{41}{64}$	$3\frac{15}{32}$	$2\frac{1}{64}$	$4\frac{1}{32}$	$\frac{27}{32}$	$1\frac{59}{64}$	6	$\frac{3}{32}$	$2\frac{5}{8}$	$1\frac{11}{16}$	$4\frac{7}{32}$	$1\frac{11}{16}$	$\frac{15}{32}$	$\frac{9}{32}$	$1\frac{1}{32}$
7	$1\frac{17}{64}$	$5\frac{13}{32}$	$4\frac{3}{64}$	$2\frac{11}{32}$	$4\frac{45}{64}$	$\frac{63}{64}$	$2\frac{15}{64}$	7	$\frac{7}{64}$	$3\frac{1}{16}$	$1\frac{31}{32}$	$4\frac{59}{64}$	$1\frac{31}{32}$	$\frac{35}{64}$	$\frac{21}{64}$	$1\frac{13}{64}$
8	$1\frac{7}{16}$	$6\frac{3}{16}$	$4\frac{5}{8}$	$2\frac{11}{16}$	$5\frac{3}{8}$	$1\frac{1}{8}$	$2\frac{9}{16}$	8	$\frac{1}{8}$	$3\frac{1}{2}$	$2\frac{1}{4}$	$5\frac{5}{8}$	$2\frac{1}{4}$	$\frac{5}{8}$	$\frac{3}{8}$	$1\frac{3}{8}$
12	$2\frac{8}{32}$	$9\frac{9}{32}$	$6\frac{15}{16}$	$4\frac{1}{32}$	$8\frac{1}{16}$	$1\frac{11}{16}$	$3\frac{27}{32}$	12	$\frac{3}{16}$	$5\frac{1}{4}$	$3\frac{3}{8}$	$8\frac{7}{16}$	$3\frac{3}{8}$	$\frac{15}{16}$	$\frac{9}{16}$	$2\frac{1}{16}$
18	$3\frac{18}{64}$	$13\frac{15}{16}$	$10\frac{13}{32}$	$6\frac{1}{16}$	$12\frac{3}{32}$	$2\frac{17}{32}$	$5\frac{3}{4}$	18	$\frac{9}{32}$	$7\frac{7}{8}$	$5\frac{1}{16}$	$12\frac{21}{32}$	$5\frac{1}{16}$	$1\frac{13}{32}$	$\frac{27}{32}$	$3\frac{3}{32}$

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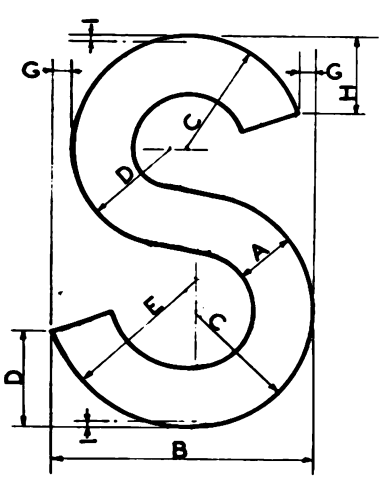

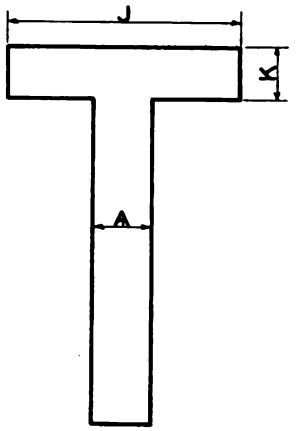

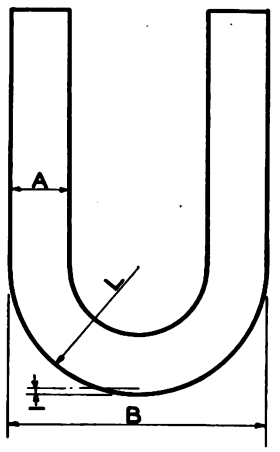

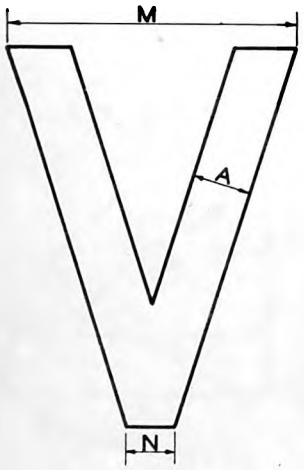

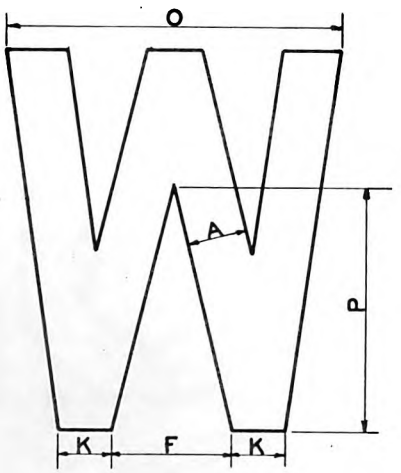

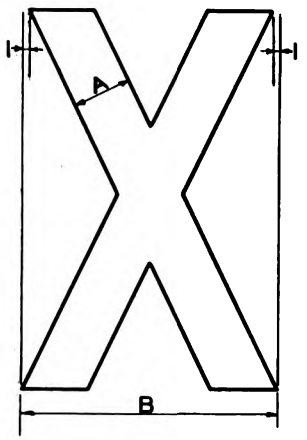

SERIES D LETTERS

HEIGHT (INCHES)	DIMENSIONS (INCHES)															
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
2	$\frac{23}{64}$	$1\frac{11}{32}$	$\frac{39}{64}$	$\frac{1}{2}$	$\frac{25}{32}$	$\frac{5}{8}$	$\frac{5}{64}$	$\frac{13}{32}$	$\frac{1}{32}$	$1\frac{7}{32}$	$\frac{9}{32}$	$\frac{43}{64}$	$1\frac{1}{2}$	$\frac{1}{4}$	$1\frac{3}{4}$	$1\frac{9}{32}$
3	$\frac{35}{64}$	$2\frac{1}{64}$	$\frac{29}{32}$	$\frac{3}{4}$	$1\frac{11}{64}$	$\frac{15}{16}$	$\frac{7}{64}$	$\frac{39}{64}$	$\frac{3}{64}$	$1\frac{53}{64}$	$\frac{27}{64}$	1	$2\frac{1}{4}$	$\frac{3}{8}$	$2\frac{5}{8}$	$1\frac{59}{64}$
4	$\frac{23}{32}$	$2\frac{11}{16}$	$1\frac{7}{32}$	1	$1\frac{9}{16}$	$1\frac{1}{4}$	$\frac{5}{32}$	$\frac{13}{16}$	$\frac{1}{16}$	$2\frac{7}{16}$	$\frac{9}{16}$	$1\frac{11}{32}$	3	$\frac{1}{2}$	$3\frac{1}{2}$	$2\frac{9}{16}$
5	$\frac{29}{32}$	$3\frac{23}{64}$	$1\frac{33}{64}$	$1\frac{1}{4}$	$1\frac{61}{64}$	$1\frac{9}{16}$	$\frac{3}{16}$	$1\frac{1}{64}$	$\frac{5}{64}$	$3\frac{3}{64}$	$\frac{45}{64}$	$1\frac{43}{64}$	$3\frac{3}{4}$	$\frac{5}{8}$	$4\frac{3}{8}$	$3\frac{13}{64}$
6	$1\frac{5}{64}$	$4\frac{1}{32}$	$1\frac{53}{64}$	$1\frac{1}{2}$	$2\frac{11}{32}$	$1\frac{7}{8}$	$\frac{15}{64}$	$1\frac{7}{32}$	$\frac{3}{32}$	$3\frac{21}{32}$	$\frac{27}{32}$	$2\frac{1}{64}$	$4\frac{1}{2}$	$\frac{3}{4}$	$5\frac{1}{4}$	$3\frac{27}{32}$
7	$1\frac{17}{64}$	$4\frac{45}{64}$	$2\frac{1}{8}$	$1\frac{3}{4}$	$2\frac{47}{64}$	$2\frac{3}{16}$	$\frac{17}{64}$	$1\frac{27}{64}$	$\frac{7}{64}$	$4\frac{17}{64}$	$\frac{63}{64}$	$2\frac{11}{32}$	$5\frac{1}{4}$	$\frac{7}{8}$	$6\frac{1}{8}$	$4\frac{31}{64}$
8	$1\frac{7}{16}$	$5\frac{3}{8}$	$2\frac{7}{16}$	2	$3\frac{1}{8}$	$2\frac{1}{2}$	$\frac{5}{16}$	$1\frac{5}{8}$	$\frac{1}{8}$	$4\frac{7}{8}$	$1\frac{1}{8}$	$2\frac{11}{16}$	6	1	7	$5\frac{1}{8}$
12	$2\frac{5}{32}$	$8\frac{1}{16}$	$3\frac{21}{32}$	3	$4\frac{11}{16}$	$3\frac{3}{4}$	$\frac{15}{32}$	$2\frac{7}{16}$	$\frac{3}{16}$	$7\frac{5}{16}$	$1\frac{11}{16}$	$4\frac{1}{32}$	9	$1\frac{1}{2}$	$10\frac{1}{2}$	$7\frac{11}{16}$
18	$3\frac{15}{64}$	$12\frac{3}{32}$	$5\frac{1}{2}$	$4\frac{1}{2}$	$7\frac{1}{32}$	$5\frac{5}{8}$	$\frac{11}{16}$	$3\frac{21}{32}$	$\frac{9}{32}$	$10\frac{31}{32}$	$2\frac{17}{32}$	$6\frac{3}{64}$	$13\frac{1}{2}$	$2\frac{1}{4}$	$15\frac{3}{4}$	$11\frac{17}{32}$

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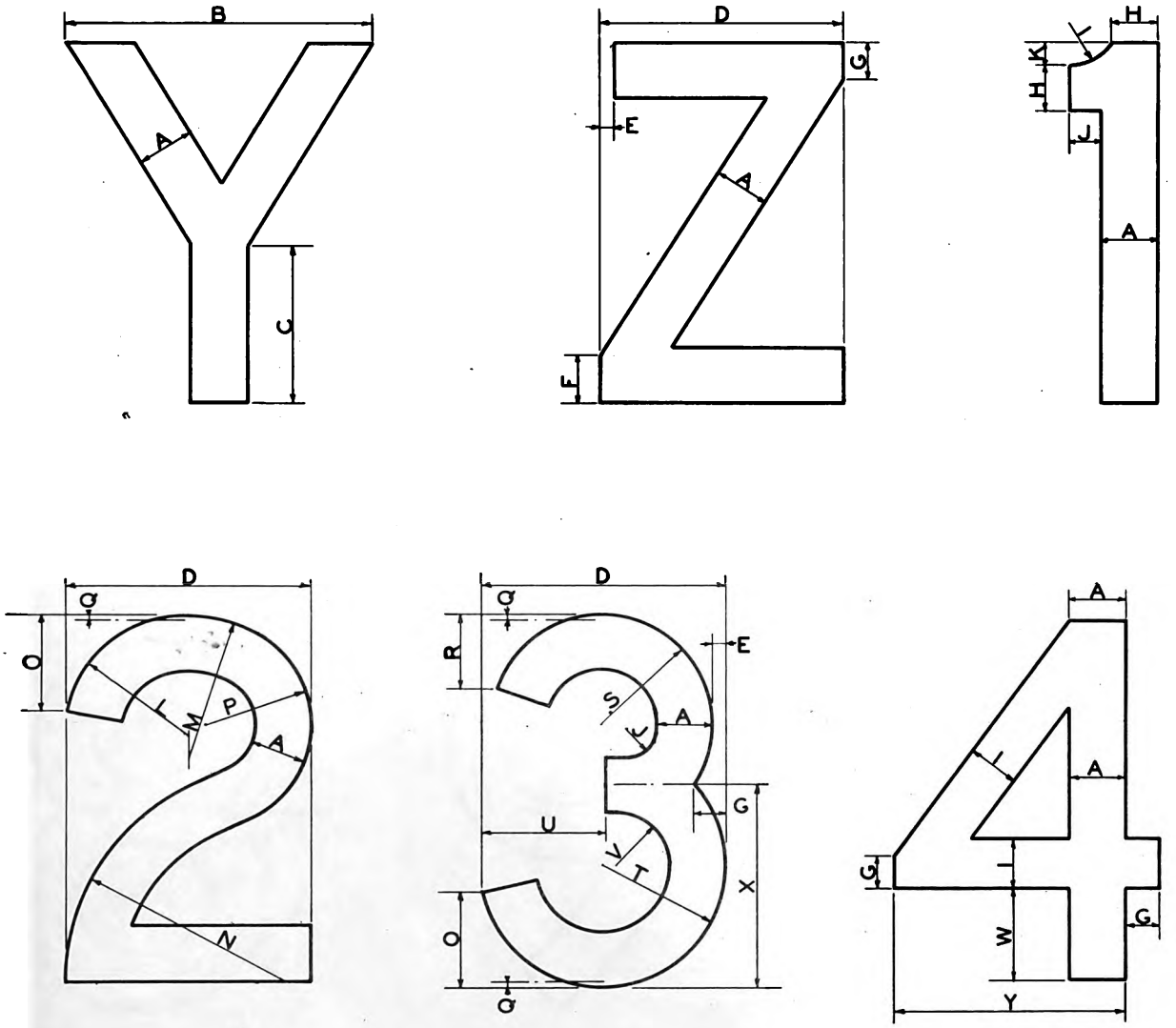

SERIES D LETTERS AND NUMERALS

HEIGHT (INCHES)	DIMENSIONS (INCHES)																							
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
2	$\frac{23}{64}$	$1\frac{11}{16}$	$\frac{7}{8}$	$1\frac{11}{32}$	$\frac{5}{64}$	$\frac{17}{64}$	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{9}{32}$	$\frac{11}{64}$	$\frac{1}{8}$	$\frac{21}{32}$	$\frac{25}{32}$	$1\frac{7}{32}$	$\frac{17}{32}$	$\frac{37}{64}$	$\frac{1}{32}$	$\frac{13}{32}$	$\frac{39}{64}$	$\frac{43}{64}$	$\frac{11}{16}$	$\frac{19}{64}$	$\frac{1}{2}$	$1\frac{1}{8}$	$1\frac{9}{32}$
3	$\frac{55}{64}$	$2\frac{17}{32}$	$1\frac{5}{16}$	$2\frac{1}{64}$	$\frac{7}{64}$	$\frac{25}{64}$	$\frac{9}{32}$	$\frac{3}{8}$	$\frac{27}{64}$	$\frac{1}{4}$	$\frac{3}{16}$	$\frac{63}{64}$	$1\frac{11}{64}$	$1\frac{53}{64}$	$\frac{51}{64}$	$\frac{55}{64}$	$\frac{3}{64}$	$\frac{39}{64}$	$\frac{29}{32}$	1	$1\frac{1}{32}$	$\frac{7}{16}$	$\frac{3}{4}$	$1\frac{11}{16}$	$1\frac{59}{64}$
4	$\frac{23}{32}$	$3\frac{3}{8}$	$1\frac{3}{4}$	$2\frac{11}{16}$	$\frac{5}{32}$	$\frac{17}{32}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{11}{32}$	$\frac{1}{4}$	$1\frac{5}{16}$	$1\frac{9}{16}$	$2\frac{7}{16}$	$1\frac{1}{16}$	$1\frac{5}{32}$	$\frac{1}{16}$	$\frac{13}{16}$	$1\frac{7}{32}$	$1\frac{11}{32}$	$1\frac{3}{8}$	$\frac{19}{32}$	1	$2\frac{1}{4}$	$2\frac{9}{16}$
5	$\frac{29}{32}$	$4\frac{7}{32}$	$2\frac{3}{16}$	$3\frac{23}{64}$	$\frac{3}{16}$	$\frac{21}{32}$	$\frac{15}{32}$	$\frac{5}{8}$	$\frac{45}{64}$	$\frac{27}{64}$	$\frac{5}{16}$	$1\frac{41}{64}$	$1\frac{61}{64}$	$3\frac{3}{64}$	$1\frac{21}{64}$	$1\frac{7}{16}$	$\frac{5}{64}$	$1\frac{1}{64}$	$1\frac{33}{64}$	$1\frac{43}{64}$	$1\frac{23}{32}$	$\frac{47}{64}$	$1\frac{1}{4}$	$2\frac{13}{16}$	$3\frac{13}{64}$
6	$1\frac{5}{64}$	$5\frac{1}{16}$	$2\frac{5}{8}$	$4\frac{1}{32}$	$\frac{15}{64}$	$\frac{51}{64}$	$\frac{9}{16}$	$\frac{3}{4}$	$\frac{27}{32}$	$\frac{33}{64}$	$\frac{3}{8}$	$1\frac{31}{32}$	$2\frac{11}{32}$	$3\frac{21}{32}$	$1\frac{19}{32}$	$1\frac{47}{64}$	$\frac{3}{32}$	$1\frac{7}{32}$	$1\frac{53}{64}$	$2\frac{1}{64}$	$2\frac{1}{16}$	$\frac{57}{64}$	$1\frac{1}{2}$	$3\frac{3}{8}$	$3\frac{27}{32}$
7	$1\frac{17}{64}$	$5\frac{29}{32}$	$3\frac{1}{16}$	$4\frac{45}{64}$	$\frac{17}{64}$	$\frac{59}{64}$	$\frac{21}{32}$	$\frac{7}{8}$	$\frac{63}{64}$	$\frac{19}{32}$	$\frac{7}{16}$	$2\frac{19}{64}$	$2\frac{47}{64}$	$4\frac{17}{64}$	$1\frac{55}{64}$	$2\frac{1}{64}$	$\frac{7}{64}$	$1\frac{27}{64}$	$2\frac{1}{8}$	$2\frac{11}{32}$	$2\frac{13}{32}$	$1\frac{1}{32}$	$1\frac{3}{4}$	$3\frac{15}{16}$	$4\frac{31}{64}$
8	$1\frac{7}{16}$	$6\frac{3}{4}$	$3\frac{1}{2}$	$5\frac{3}{8}$	$\frac{5}{16}$	$1\frac{1}{16}$	$\frac{3}{4}$	1	$1\frac{1}{8}$	$\frac{11}{16}$	$\frac{1}{2}$	$2\frac{5}{8}$	$3\frac{1}{8}$	$4\frac{7}{8}$	$2\frac{1}{8}$	$2\frac{5}{16}$	$\frac{1}{8}$	$1\frac{5}{8}$	$2\frac{7}{16}$	$2\frac{11}{16}$	$2\frac{3}{4}$	$1\frac{3}{16}$	2	$4\frac{1}{2}$	$5\frac{1}{8}$
12	$2\frac{5}{32}$	$10\frac{1}{8}$	$5\frac{1}{4}$	$8\frac{1}{16}$	$\frac{15}{32}$	$1\frac{19}{32}$	$1\frac{1}{8}$	$1\frac{1}{2}$	$1\frac{11}{16}$	$1\frac{1}{32}$	$\frac{3}{4}$	$3\frac{15}{16}$	$4\frac{11}{16}$	$7\frac{5}{16}$	$3\frac{3}{16}$	$3\frac{15}{32}$	$\frac{3}{16}$	$2\frac{7}{16}$	$3\frac{21}{32}$	$4\frac{1}{32}$	$4\frac{1}{8}$	$1\frac{25}{32}$	3	$6\frac{3}{4}$	$7\frac{11}{16}$
18	$3\frac{15}{64}$	$15\frac{3}{16}$	$7\frac{7}{8}$	$12\frac{3}{32}$	$\frac{11}{16}$	$2\frac{3}{8}$	$1\frac{11}{16}$	$2\frac{1}{4}$	$2\frac{17}{32}$	$1\frac{9}{16}$	$1\frac{1}{8}$	$5\frac{29}{32}$	$7\frac{1}{32}$	$10\frac{31}{32}$	$4\frac{25}{32}$	$5\frac{3}{16}$	$\frac{9}{32}$	$3\frac{21}{32}$	$5\frac{1}{2}$	$6\frac{1}{16}$	$6\frac{3}{16}$	$2\frac{11}{16}$	$4\frac{1}{2}$	$10\frac{1}{8}$	$11\frac{17}{32}$

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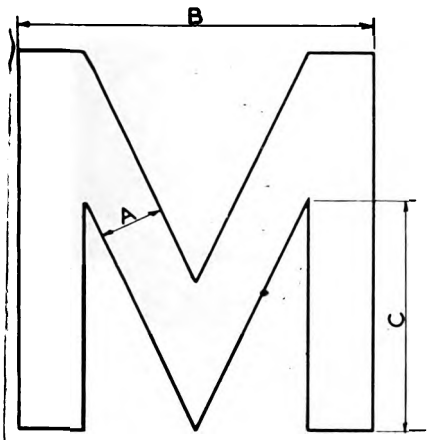

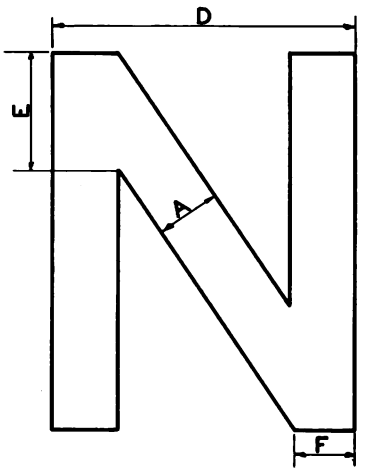

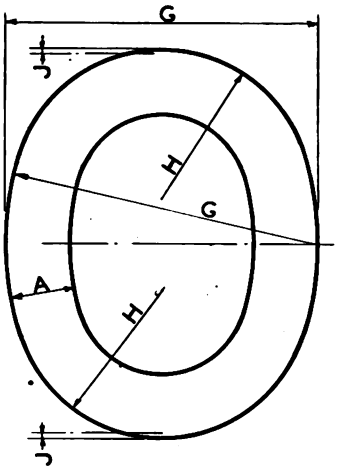

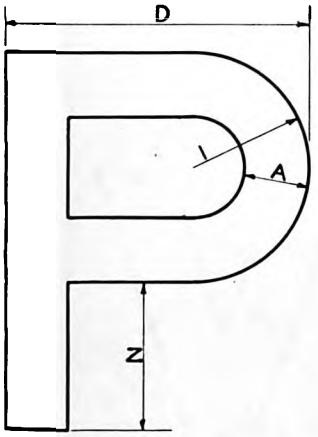

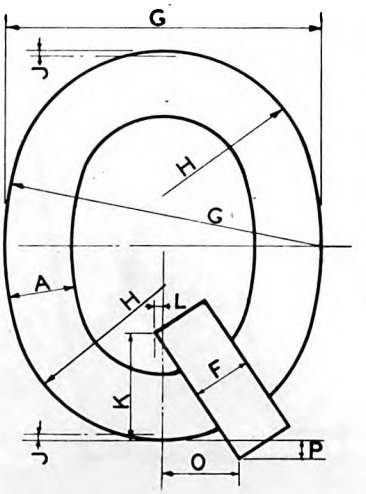

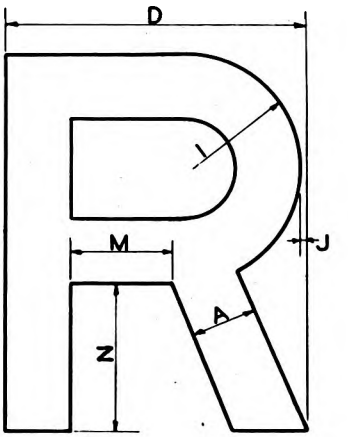

SERIES E LETTERS

HEIGHT (INCHES)	DIMENSIONS (INCHES)															
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
2	13/32	1 27/32	1 7/32	1 19/32	5/8	5/16	1 21/32	51/64	39/64	1/32	9/16	3/64	17/32	25/32	13/32	3/32
3	39/64	2 49/64	1 53/64	2 25/64	15/16	15/32	2 31/64	1 3/16	29/32	3/64	27/32	1/16	51/64	1 11/64	39/64	9/64
4	51/64	3 11/16	2 7/16	3 3/16	1 1/4	5/8	3 5/16	1 19/32	1 7/32	1/16	1 1/8	3/32	1 1/16	1 9/16	13/16	3/16
5	1	4 39/64	3 3/64	3 63/64	1 9/16	25/32	4 9/64	1 63/64	1 33/64	5/64	1 13/32	7/64	1 21/64	1 61/64	1 1/64	15/64
6	1 13/64	5 17/32	3 21/32	4 25/32	1 7/8	15/16	4 31/32	2 25/64	1 53/64	3/32	1 11/16	9/64	1 19/32	2 11/32	1 7/32	9/32
7	1 13/32	6 29/64	4 17/64	5 37/64	2 3/16	1 3/32	5 51/64	2 25/32	2 1/8	7/64	1 31/32	5/32	1 55/64	2 47/64	1 27/64	21/64
8	1 39/64	7 3/8	4 7/8	6 3/8	2 1/2	1 1/4	6 5/8	3 3/16	2 7/16	1/8	2 1/4	3/16	2 1/8	3 1/8	1 5/8	3/8
12	2 13/32	11 1/16	7 5/16	9 9/16	3 3/4	1 7/8	9 15/16	4 25/32	3 21/32	3/16	3 3/8	9/32	3 3/16	4 11/16	2 7/16	9/16
18	3 39/64	16 19/32	10 31/32	14 11/32	5 5/8	2 13/16	14 29/32	7 11/64	5 1/2	9/32	5 1/16	7/16	4 25/32	7 1/32	3 21/32	27/32

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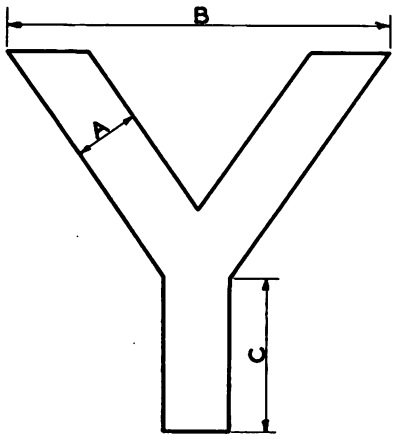

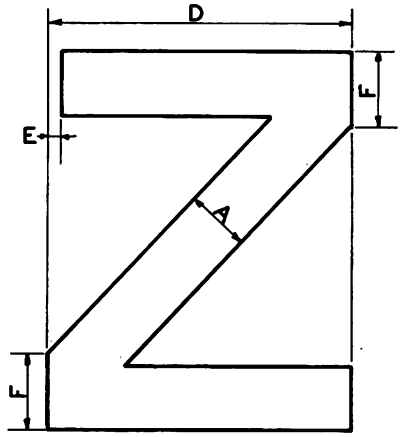

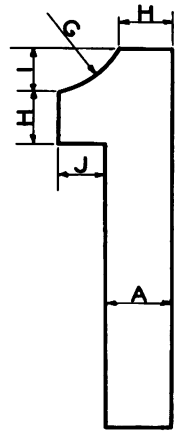

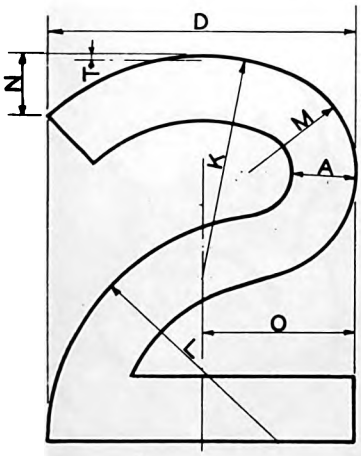

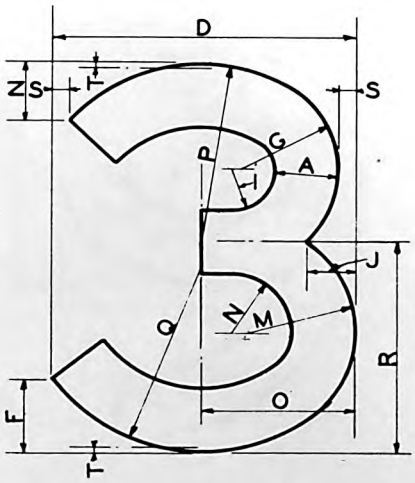

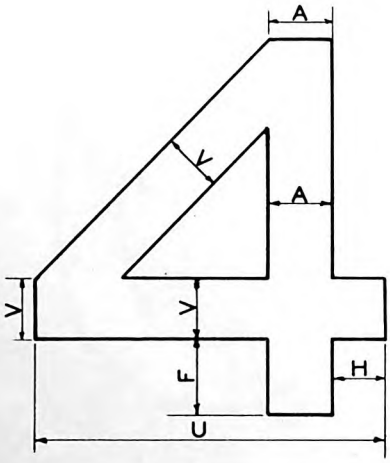

SERIES E LETTERS AND NUMERALS

HEIGHT (INCHES)	DIMENSIONS (INCHES)																				
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
2	$\frac{13}{32}$	2	$\frac{13}{16}$	$1\frac{19}{32}$	$\frac{1}{16}$	$\frac{13}{32}$	$\frac{1}{2}$	$\frac{9}{32}$	$\frac{7}{32}$	$\frac{1}{4}$	$1\frac{3}{16}$	$1\frac{7}{32}$	$\frac{9}{16}$	$\frac{5}{16}$	$\frac{51}{64}$	$\frac{15}{16}$	1	$1\frac{1}{8}$	$\frac{3}{32}$	$\frac{1}{32}$	$1\frac{27}{32}$	$\frac{21}{64}$
3	$\frac{39}{64}$	3	$1\frac{7}{32}$	$2\frac{25}{64}$	$\frac{3}{32}$	$\frac{39}{64}$	$\frac{3}{4}$	$\frac{27}{64}$	$\frac{21}{64}$	$\frac{3}{8}$	$1\frac{25}{32}$	$1\frac{53}{64}$	$\frac{27}{32}$	$\frac{15}{32}$	$1\frac{3}{16}$	$1\frac{13}{32}$	$1\frac{1}{2}$	$1\frac{11}{16}$	$\frac{9}{64}$	$\frac{3}{64}$	$2\frac{49}{64}$	$\frac{31}{64}$
4	$\frac{51}{64}$	4	$1\frac{5}{8}$	$3\frac{3}{16}$	$\frac{1}{8}$	$\frac{13}{16}$	1	$\frac{9}{16}$	$\frac{7}{16}$	$\frac{1}{2}$	$2\frac{3}{8}$	$2\frac{7}{16}$	$1\frac{1}{8}$	$\frac{5}{8}$	$1\frac{19}{32}$	$1\frac{7}{8}$	2	$2\frac{1}{4}$	$\frac{3}{16}$	$\frac{1}{16}$	$3\frac{11}{16}$	$\frac{21}{32}$
5	1	5	$2\frac{1}{32}$	$3\frac{63}{64}$	$\frac{5}{32}$	$1\frac{1}{64}$	$1\frac{1}{4}$	$\frac{45}{64}$	$\frac{35}{64}$	$\frac{5}{8}$	$2\frac{31}{32}$	$3\frac{3}{64}$	$1\frac{13}{32}$	$\frac{25}{32}$	$1\frac{63}{64}$	$2\frac{11}{32}$	$2\frac{1}{2}$	$2\frac{13}{16}$	$\frac{15}{64}$	$\frac{5}{64}$	$4\frac{39}{64}$	$\frac{13}{16}$
6	$1\frac{13}{64}$	6	$2\frac{7}{16}$	$4\frac{25}{32}$	$\frac{3}{16}$	$1\frac{7}{32}$	$1\frac{1}{2}$	$\frac{27}{32}$	$\frac{21}{32}$	$\frac{3}{4}$	$3\frac{9}{16}$	$3\frac{21}{32}$	$1\frac{11}{16}$	$\frac{15}{16}$	$2\frac{25}{64}$	$2\frac{13}{16}$	3	$3\frac{3}{8}$	$\frac{9}{32}$	$\frac{3}{32}$	$5\frac{17}{32}$	$\frac{63}{64}$
7	$1\frac{13}{32}$	7	$2\frac{27}{32}$	$5\frac{37}{64}$	$\frac{7}{32}$	$1\frac{27}{64}$	$1\frac{3}{4}$	$\frac{63}{64}$	$\frac{49}{64}$	$\frac{7}{8}$	$4\frac{5}{32}$	$4\frac{17}{64}$	$1\frac{31}{32}$	$1\frac{3}{32}$	$2\frac{25}{32}$	$3\frac{9}{32}$	$3\frac{1}{2}$	$3\frac{15}{16}$	$\frac{21}{64}$	$\frac{7}{64}$	$6\frac{29}{64}$	$1\frac{9}{64}$
8	$1\frac{39}{64}$	8	$3\frac{1}{4}$	$6\frac{3}{8}$	$\frac{1}{4}$	$1\frac{5}{8}$	2	$1\frac{1}{8}$	$\frac{7}{8}$	1	$4\frac{3}{4}$	$4\frac{7}{8}$	$2\frac{1}{4}$	$1\frac{1}{4}$	$3\frac{3}{16}$	$3\frac{3}{4}$	4	$4\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{8}$	$7\frac{3}{8}$	$1\frac{5}{16}$
12	$2\frac{13}{32}$	12	$4\frac{7}{8}$	$9\frac{9}{16}$	$\frac{3}{8}$	$2\frac{7}{16}$	3	$1\frac{11}{16}$	$1\frac{5}{16}$	$1\frac{1}{2}$	$7\frac{1}{8}$	$7\frac{5}{16}$	$3\frac{3}{8}$	$1\frac{7}{8}$	$4\frac{25}{32}$	$5\frac{5}{8}$	6	$6\frac{3}{4}$	$\frac{9}{16}$	$\frac{3}{16}$	$11\frac{1}{16}$	$1\frac{31}{32}$
18	$3\frac{39}{64}$	18	$7\frac{5}{16}$	$14\frac{11}{32}$	$\frac{9}{16}$	$3\frac{21}{32}$	$4\frac{1}{2}$	$2\frac{17}{32}$	$1\frac{31}{32}$	$2\frac{1}{4}$	$10\frac{11}{16}$	$10\frac{31}{32}$	$5\frac{1}{16}$	$2\frac{13}{16}$	$7\frac{5}{32}$	$8\frac{7}{16}$	9	$10\frac{1}{8}$	$\frac{27}{32}$	$\frac{9}{32}$	$16\frac{19}{32}$	$2\frac{15}{16}$

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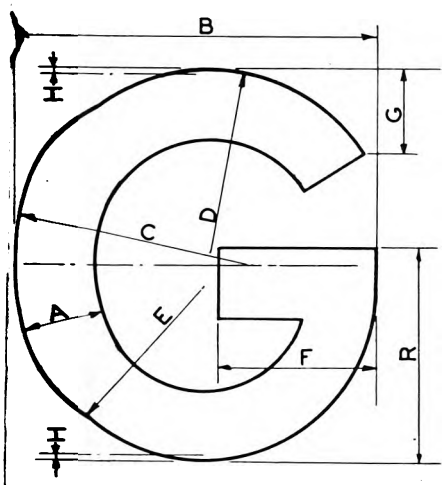

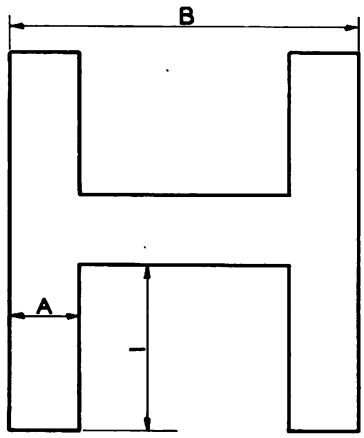

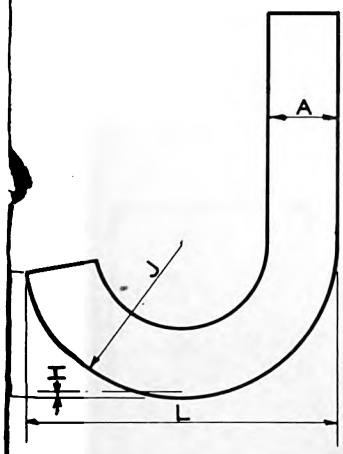

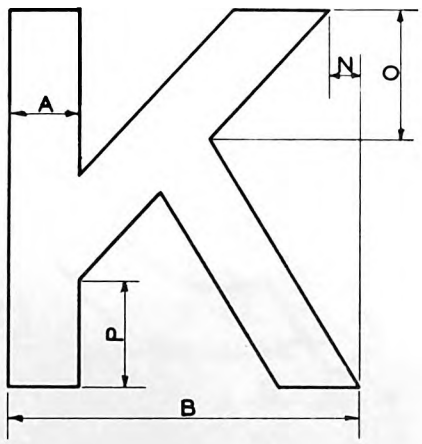

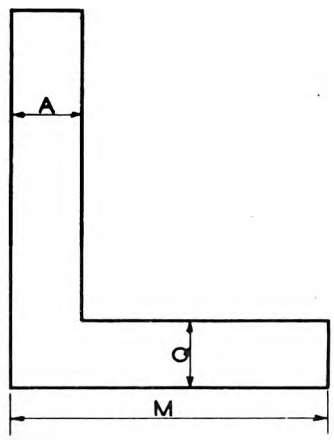

SERIES F LETTERS

HEIGHT (INCHES)	DIMENSIONS (INCHES)																	
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
2	$\frac{7}{16}$	$1\frac{27}{32}$	$1\frac{3}{16}$	$\frac{31}{32}$	$\frac{29}{32}$	$\frac{27}{32}$	$\frac{7}{16}$	$\frac{1}{32}$	$\frac{7}{8}$	$\frac{13}{16}$	$\frac{21}{32}$	$1\frac{5}{8}$	$1\frac{11}{16}$	$\frac{5}{32}$	$\frac{11}{16}$	$\frac{9}{16}$	$\frac{11}{32}$	$1\frac{1}{8}$
3	$\frac{21}{32}$	$2\frac{49}{64}$	$1\frac{25}{32}$	$1\frac{29}{64}$	$1\frac{23}{64}$	$1\frac{17}{64}$	$\frac{21}{32}$	$\frac{3}{64}$	$1\frac{5}{16}$	$1\frac{7}{32}$	$\frac{63}{64}$	$2\frac{7}{16}$	$2\frac{17}{32}$	$\frac{15}{64}$	$1\frac{1}{32}$	$\frac{27}{32}$	$\frac{33}{64}$	$1\frac{11}{16}$
4	$\frac{7}{8}$	$3\frac{11}{16}$	$2\frac{3}{8}$	$1\frac{15}{16}$	$1\frac{13}{16}$	$1\frac{11}{16}$	$\frac{7}{8}$	$\frac{1}{16}$	$1\frac{3}{4}$	$1\frac{5}{8}$	$1\frac{5}{16}$	$3\frac{1}{4}$	$3\frac{3}{8}$	$\frac{5}{16}$	$1\frac{3}{8}$	$1\frac{1}{8}$	$\frac{11}{16}$	$2\frac{1}{4}$
5	$1\frac{7}{64}$	$4\frac{39}{64}$	$2\frac{31}{32}$	$2\frac{27}{64}$	$2\frac{17}{64}$	$2\frac{7}{64}$	$1\frac{3}{32}$	$\frac{5}{64}$	$2\frac{3}{16}$	$2\frac{1}{32}$	$1\frac{41}{64}$	$4\frac{1}{16}$	$4\frac{7}{32}$	$\frac{25}{64}$	$1\frac{23}{32}$	$1\frac{13}{32}$	$\frac{55}{64}$	$2\frac{13}{16}$
6	$1\frac{21}{64}$	$5\frac{17}{32}$	$3\frac{9}{16}$	$2\frac{29}{32}$	$2\frac{23}{32}$	$2\frac{17}{32}$	$1\frac{5}{16}$	$\frac{3}{32}$	$2\frac{5}{8}$	$2\frac{7}{16}$	$1\frac{31}{32}$	$4\frac{7}{8}$	$5\frac{1}{16}$	$\frac{15}{32}$	$2\frac{1}{16}$	$1\frac{11}{16}$	$1\frac{1}{32}$	$3\frac{3}{8}$
7	$1\frac{35}{64}$	$6\frac{29}{64}$	$4\frac{5}{32}$	$3\frac{25}{64}$	$3\frac{11}{64}$	$2\frac{61}{64}$	$1\frac{17}{32}$	$\frac{7}{64}$	$3\frac{1}{16}$	$2\frac{27}{32}$	$2\frac{19}{64}$	$5\frac{11}{16}$	$5\frac{29}{32}$	$\frac{35}{64}$	$2\frac{13}{32}$	$1\frac{31}{32}$	$1\frac{13}{64}$	$3\frac{15}{16}$
8	$1\frac{49}{64}$	$7\frac{3}{8}$	$4\frac{3}{4}$	$3\frac{7}{8}$	$3\frac{5}{8}$	$3\frac{3}{8}$	$1\frac{3}{4}$	$\frac{1}{8}$	$3\frac{1}{2}$	$3\frac{1}{4}$	$2\frac{5}{8}$	$6\frac{1}{2}$	$6\frac{3}{4}$	$\frac{5}{8}$	$2\frac{3}{4}$	$2\frac{1}{4}$	$1\frac{3}{8}$	$4\frac{1}{2}$
12	$2\frac{41}{64}$	$11\frac{1}{16}$	$7\frac{1}{8}$	$5\frac{13}{16}$	$5\frac{7}{16}$	$5\frac{1}{16}$	$2\frac{5}{8}$	$\frac{3}{16}$	$5\frac{1}{4}$	$4\frac{7}{8}$	$3\frac{15}{16}$	$9\frac{3}{4}$	$10\frac{1}{8}$	$\frac{15}{16}$	$4\frac{1}{8}$	$3\frac{3}{8}$	$2\frac{1}{16}$	$6\frac{3}{4}$
18	$3\frac{31}{32}$	$16\frac{19}{32}$	$10\frac{11}{16}$	$8\frac{23}{32}$	$8\frac{5}{32}$	$7\frac{19}{32}$	$3\frac{15}{16}$	$\frac{9}{32}$	$7\frac{7}{8}$	$7\frac{5}{16}$	$5\frac{29}{32}$	$14\frac{5}{8}$	$15\frac{3}{16}$	$1\frac{13}{32}$	$6\frac{3}{16}$	$5\frac{1}{16}$	$3\frac{3}{32}$	$10\frac{1}{8}$

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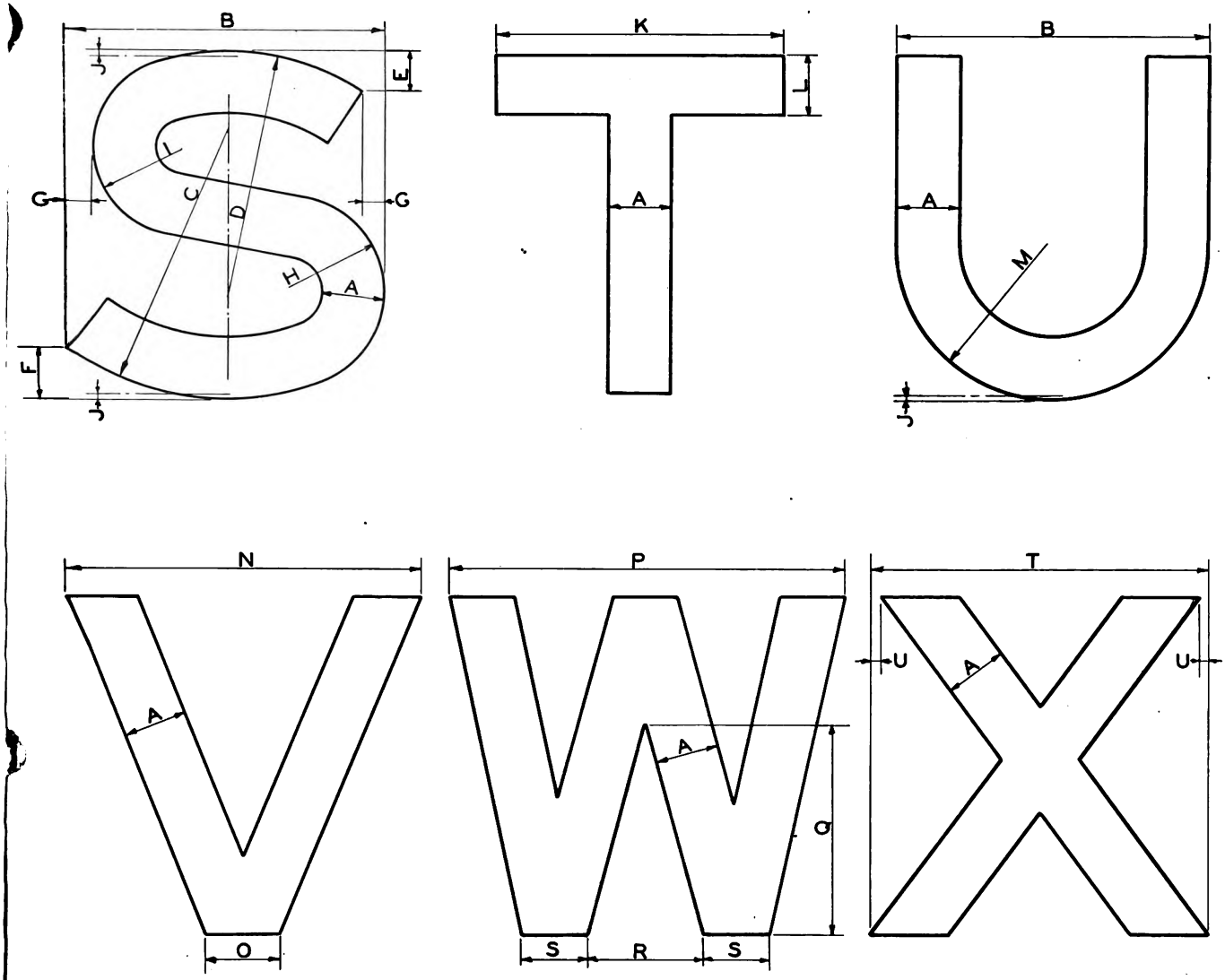

SERIES F LETTERS

HEIGHT (INCHES)	DIMENSIONS (INCHES)																				
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
2	$\frac{7}{16}$	$1\frac{27}{32}$	$1\frac{9}{16}$	$1\frac{7}{16}$	$\frac{15}{64}$	$\frac{19}{64}$	$\frac{1}{8}$	$\frac{9}{16}$	$\frac{17}{32}$	$\frac{1}{32}$	$1\frac{11}{16}$	$\frac{11}{32}$	$\frac{59}{64}$	$2\frac{1}{16}$	$\frac{7}{16}$	$2\frac{5}{16}$	$1\frac{1}{4}$	$\frac{11}{16}$	$\frac{13}{32}$	2	$\frac{1}{16}$
3	$\frac{21}{32}$	$2\frac{3}{4}$	$2\frac{11}{32}$	$2\frac{5}{32}$	$\frac{11}{32}$	$\frac{7}{16}$	$\frac{3}{16}$	$\frac{27}{32}$	$\frac{51}{64}$	$\frac{3}{64}$	$2\frac{17}{32}$	$\frac{33}{64}$	$1\frac{3}{8}$	$3\frac{3}{32}$	$\frac{21}{32}$	$3\frac{15}{32}$	$1\frac{7}{8}$	$1\frac{1}{32}$	$\frac{39}{64}$	3	$\frac{3}{32}$
4	$\frac{7}{8}$	$3\frac{11}{16}$	$3\frac{1}{8}$	$2\frac{7}{8}$	$\frac{15}{32}$	$\frac{19}{32}$	$\frac{1}{4}$	$1\frac{1}{8}$	$1\frac{1}{16}$	$\frac{1}{16}$	$3\frac{3}{8}$	$\frac{11}{16}$	$1\frac{27}{32}$	$4\frac{1}{8}$	$\frac{7}{8}$	$4\frac{5}{8}$	$2\frac{1}{2}$	$1\frac{3}{8}$	$\frac{13}{16}$	4	$\frac{1}{8}$
5	$1\frac{7}{64}$	$4\frac{19}{32}$	$3\frac{29}{32}$	$3\frac{19}{32}$	$\frac{37}{64}$	$\frac{47}{64}$	$\frac{5}{16}$	$1\frac{13}{32}$	$1\frac{21}{64}$	$\frac{5}{64}$	$4\frac{7}{32}$	$\frac{55}{64}$	$2\frac{19}{64}$	$5\frac{5}{32}$	$1\frac{3}{32}$	$5\frac{25}{32}$	$3\frac{1}{8}$	$1\frac{23}{32}$	$1\frac{1}{64}$	5	$\frac{5}{32}$
6	$1\frac{21}{64}$	$5\frac{17}{32}$	$4\frac{11}{16}$	$4\frac{5}{16}$	$\frac{45}{64}$	$\frac{57}{64}$	$\frac{3}{8}$	$1\frac{11}{16}$	$1\frac{19}{32}$	$\frac{3}{32}$	$5\frac{1}{16}$	$1\frac{1}{32}$	$2\frac{49}{64}$	$6\frac{3}{16}$	$1\frac{5}{16}$	$6\frac{15}{16}$	$3\frac{3}{4}$	$2\frac{1}{16}$	$1\frac{7}{32}$	6	$\frac{3}{16}$
7	$1\frac{35}{64}$	$6\frac{7}{16}$	$5\frac{15}{32}$	$5\frac{1}{32}$	$\frac{13}{16}$	$1\frac{1}{32}$	$\frac{7}{16}$	$1\frac{31}{32}$	$1\frac{55}{64}$	$\frac{7}{64}$	$5\frac{29}{32}$	$1\frac{13}{64}$	$3\frac{7}{32}$	$7\frac{7}{32}$	$1\frac{17}{32}$	$8\frac{3}{32}$	$4\frac{3}{8}$	$2\frac{13}{32}$	$1\frac{27}{64}$	7	$\frac{7}{32}$
8	$1\frac{49}{64}$	$7\frac{3}{8}$	$6\frac{1}{4}$	$5\frac{3}{4}$	$\frac{15}{16}$	$1\frac{3}{16}$	$\frac{1}{2}$	$2\frac{1}{4}$	$2\frac{1}{8}$	$\frac{1}{8}$	$6\frac{3}{4}$	$1\frac{3}{8}$	$3\frac{11}{16}$	$8\frac{1}{4}$	$1\frac{3}{4}$	$9\frac{1}{4}$	5	$2\frac{3}{4}$	$1\frac{5}{8}$	8	$\frac{1}{4}$
12	$2\frac{41}{64}$	$11\frac{1}{16}$	$9\frac{3}{8}$	$8\frac{5}{8}$	$1\frac{13}{32}$	$1\frac{25}{32}$	$\frac{3}{4}$	$3\frac{3}{8}$	$3\frac{3}{16}$	$\frac{3}{16}$	$10\frac{1}{8}$	$2\frac{1}{16}$	$5\frac{17}{32}$	$12\frac{3}{8}$	$2\frac{5}{8}$	$13\frac{7}{8}$	$7\frac{1}{2}$	$4\frac{1}{8}$	$2\frac{7}{16}$	12	$\frac{3}{8}$
18	$3\frac{31}{32}$	$16\frac{19}{32}$	$14\frac{1}{16}$	$12\frac{15}{16}$	$2\frac{1}{8}$	$2\frac{11}{16}$	$1\frac{1}{8}$	$5\frac{1}{16}$	$4\frac{25}{32}$	$\frac{9}{32}$	$15\frac{3}{16}$	$3\frac{3}{32}$	$8\frac{19}{64}$	$18\frac{9}{16}$	$3\frac{15}{16}$	$20\frac{13}{16}$	$11\frac{1}{4}$	$6\frac{3}{16}$	$3\frac{21}{32}$	18	$\frac{9}{16}$

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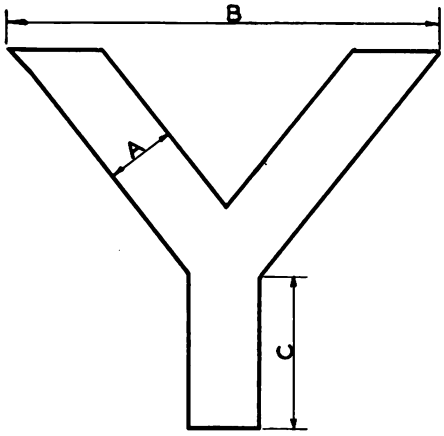

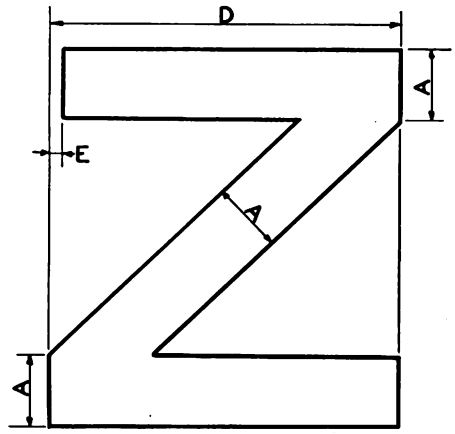

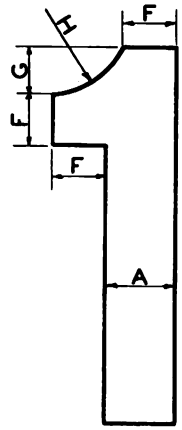

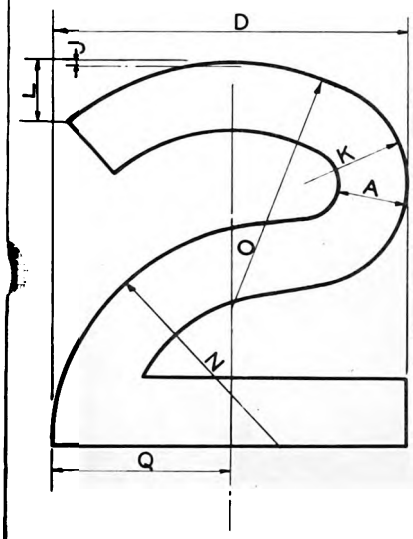

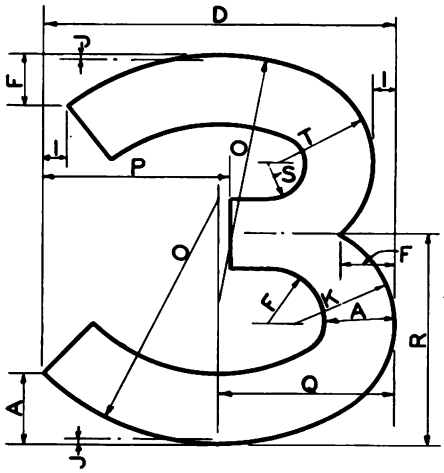

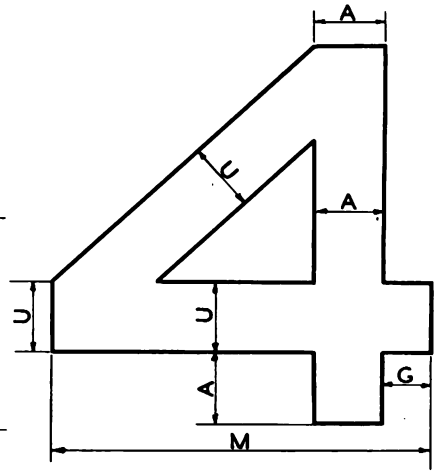

SERIES F LETTERS AND NUMERALS

HEIGHT (INCHES)	DIMENSIONS (INCHES)																				
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
2	$\frac{7}{16}$	$2\frac{1}{4}$	$\frac{13}{16}$	$1\frac{27}{32}$	$\frac{1}{16}$	$\frac{9}{32}$	$\frac{1}{4}$	$\frac{7}{16}$	$\frac{1}{8}$	$\frac{1}{32}$	$\frac{35}{64}$	$\frac{21}{64}$	2	$1\frac{3}{16}$	$1\frac{5}{16}$	$\frac{31}{32}$	$\frac{59}{64}$	$1\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{2}$	$\frac{23}{64}$
3	$\frac{21}{32}$	$3\frac{3}{8}$	$1\frac{7}{32}$	$2\frac{49}{64}$	$\frac{3}{32}$	$\frac{27}{64}$	$\frac{3}{8}$	$\frac{21}{32}$	$\frac{3}{16}$	$\frac{3}{64}$	$\frac{13}{16}$	$\frac{31}{64}$	3	$1\frac{25}{32}$	$1\frac{31}{32}$	$1\frac{29}{64}$	$1\frac{3}{8}$	$1\frac{11}{16}$	$\frac{9}{32}$	$\frac{3}{4}$	$\frac{17}{32}$
4	$\frac{7}{8}$	$4\frac{1}{2}$	$1\frac{5}{8}$	$3\frac{11}{16}$	$\frac{1}{8}$	$\frac{9}{16}$	$\frac{1}{2}$	$\frac{7}{8}$	$\frac{1}{4}$	$\frac{1}{16}$	$1\frac{3}{32}$	$\frac{21}{32}$	4	$2\frac{3}{8}$	$2\frac{5}{8}$	$1\frac{15}{16}$	$1\frac{27}{32}$	$2\frac{1}{4}$	$\frac{3}{8}$	1	$\frac{23}{32}$
5	$1\frac{7}{64}$	$5\frac{5}{8}$	$2\frac{1}{32}$	$4\frac{39}{64}$	$\frac{5}{32}$	$\frac{45}{64}$	$\frac{5}{8}$	$1\frac{3}{32}$	$\frac{5}{16}$	$\frac{5}{64}$	$1\frac{23}{64}$	$\frac{13}{16}$	5	$2\frac{31}{32}$	$3\frac{9}{32}$	$2\frac{27}{64}$	$2\frac{19}{64}$	$2\frac{13}{16}$	$\frac{15}{32}$	$1\frac{1}{4}$	$\frac{57}{64}$
6	$1\frac{21}{64}$	$5\frac{3}{4}$	$2\frac{7}{16}$	$5\frac{17}{32}$	$\frac{3}{16}$	$\frac{27}{32}$	$\frac{3}{4}$	$1\frac{5}{16}$	$\frac{3}{8}$	$\frac{3}{32}$	$1\frac{41}{64}$	$\frac{63}{64}$	6	$3\frac{9}{16}$	$3\frac{15}{16}$	$2\frac{29}{32}$	$2\frac{49}{64}$	$3\frac{3}{8}$	$\frac{9}{16}$	$1\frac{1}{2}$	$1\frac{5}{64}$
7	$1\frac{35}{64}$	$7\frac{7}{8}$	$2\frac{27}{32}$	$6\frac{29}{64}$	$\frac{7}{32}$	$\frac{63}{64}$	$\frac{7}{8}$	$1\frac{17}{32}$	$\frac{7}{16}$	$\frac{7}{64}$	$1\frac{29}{32}$	$1\frac{9}{64}$	7	$4\frac{5}{32}$	$4\frac{19}{32}$	$3\frac{25}{64}$	$3\frac{7}{32}$	$3\frac{15}{16}$	$\frac{21}{32}$	$1\frac{3}{4}$	$1\frac{1}{4}$
8	$1\frac{49}{64}$	9	$3\frac{1}{4}$	$7\frac{3}{8}$	$\frac{1}{4}$	$1\frac{1}{8}$	1	$1\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{8}$	$2\frac{3}{16}$	$1\frac{5}{16}$	8	$4\frac{3}{4}$	$5\frac{1}{4}$	$3\frac{7}{8}$	$3\frac{11}{16}$	$4\frac{1}{2}$	$\frac{3}{4}$	2	$1\frac{7}{16}$
12	$2\frac{41}{64}$	$13\frac{1}{2}$	$4\frac{7}{8}$	$11\frac{1}{16}$	$\frac{3}{8}$	$1\frac{11}{16}$	$1\frac{1}{2}$	$2\frac{5}{8}$	$\frac{3}{4}$	$\frac{3}{16}$	$3\frac{9}{32}$	$1\frac{31}{32}$	12	$7\frac{1}{8}$	$7\frac{7}{8}$	$5\frac{13}{16}$	$5\frac{17}{32}$	$6\frac{3}{4}$	$1\frac{1}{8}$	3	$2\frac{5}{32}$
18	$3\frac{31}{32}$	$20\frac{1}{4}$	$7\frac{5}{16}$	$16\frac{19}{32}$	$\frac{9}{16}$	$2\frac{17}{32}$	$2\frac{1}{4}$	$3\frac{15}{16}$	$1\frac{1}{8}$	$\frac{9}{32}$	$4\frac{15}{16}$	$2\frac{15}{16}$	18	$10\frac{11}{16}$	$11\frac{13}{16}$	$8\frac{23}{32}$	$8\frac{5}{16}$	$10\frac{1}{8}$	$1\frac{11}{16}$	$4\frac{1}{2}$	$3\frac{1}{4}$

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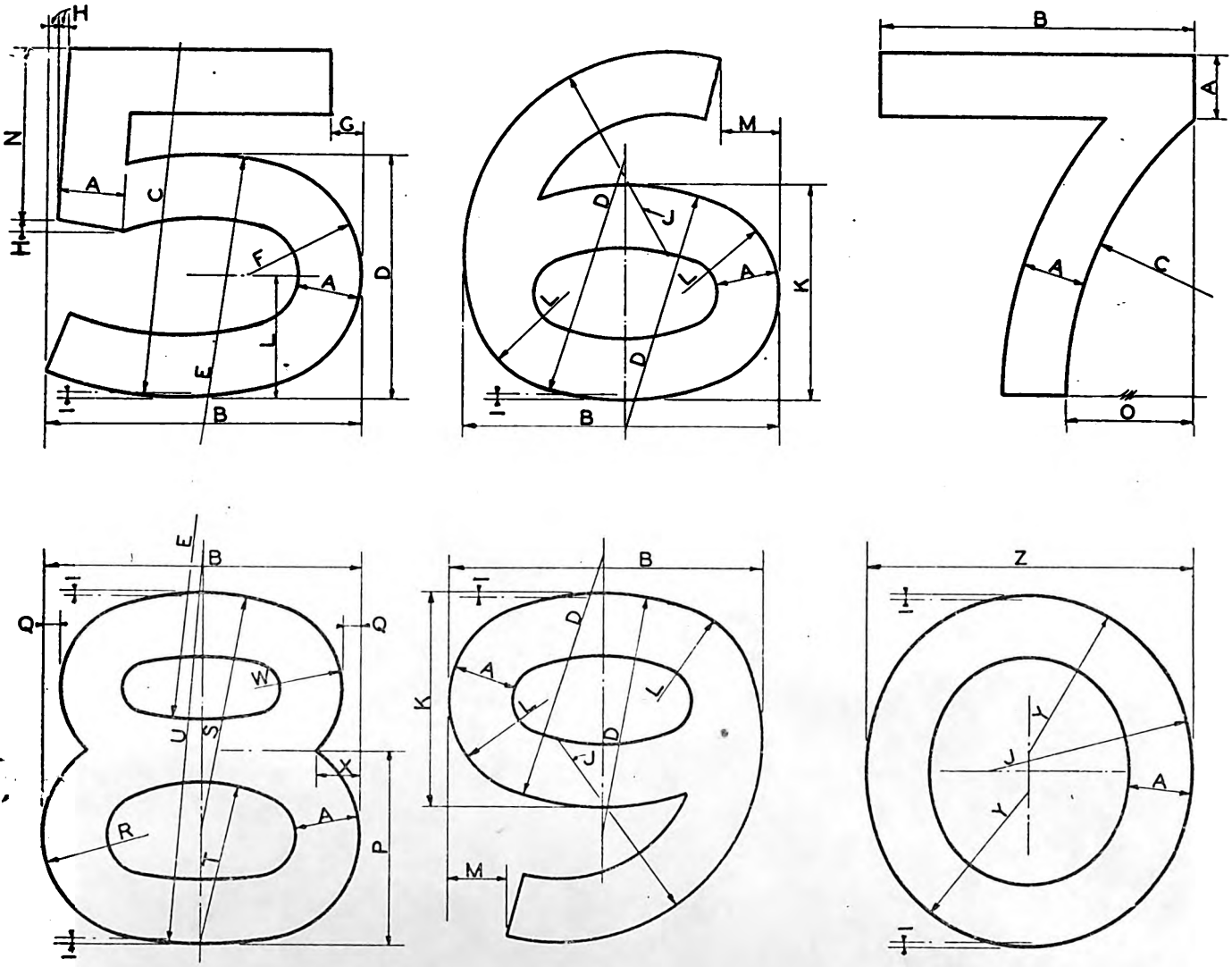

SERIES F NUMERALS

HEIGHT (INCHES)	DIMENSIONS (INCHES)																								
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
2	$\frac{3}{8}$	$1\frac{27}{32}$	$2\frac{1}{16}$	$1\frac{7}{16}$	$1\frac{1}{2}$	$\frac{21}{32}$	$\frac{3}{16}$	$\frac{1}{16}$	$\frac{1}{32}$	$1\frac{3}{16}$	$1\frac{1}{4}$	$\frac{9}{16}$	$\frac{11}{32}$	1	$\frac{3}{4}$	$1\frac{1}{8}$	$\frac{3}{32}$	$\frac{19}{32}$	$1\frac{13}{32}$	$\frac{15}{16}$	$2\frac{9}{32}$	$\frac{23}{32}$	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{59}{64}$	$1\frac{29}{32}$
3	$\frac{9}{16}$	$2\frac{49}{64}$	$3\frac{3}{32}$	$2\frac{5}{32}$	$2\frac{1}{4}$	$\frac{63}{64}$	$\frac{9}{32}$	$\frac{3}{32}$	$\frac{3}{64}$	$1\frac{25}{32}$	$1\frac{7}{8}$	$\frac{27}{32}$	$\frac{33}{64}$	$1\frac{1}{2}$	$1\frac{1}{8}$	$1\frac{11}{16}$	$\frac{9}{64}$	$\frac{57}{64}$	$2\frac{7}{64}$	$1\frac{13}{32}$	$3\frac{27}{64}$	$1\frac{5}{64}$	$\frac{3}{4}$	$\frac{3}{8}$	$1\frac{3}{8}$	$2\frac{65}{64}$
4	$\frac{3}{4}$	$3\frac{11}{16}$	$4\frac{1}{8}$	$2\frac{7}{8}$	3	$1\frac{5}{16}$	$\frac{3}{8}$	$\frac{1}{8}$	$\frac{1}{16}$	$2\frac{3}{8}$	$2\frac{1}{2}$	$1\frac{1}{8}$	$\frac{11}{16}$	2	$1\frac{1}{2}$	$2\frac{1}{4}$	$\frac{3}{16}$	$1\frac{3}{16}$	$2\frac{13}{16}$	$1\frac{7}{8}$	$4\frac{9}{16}$	$1\frac{7}{16}$	1	$\frac{1}{2}$	$1\frac{27}{32}$	$3\frac{13}{16}$
5	$\frac{15}{16}$	$4\frac{39}{64}$	$5\frac{5}{32}$	$3\frac{19}{32}$	$3\frac{3}{4}$	$1\frac{41}{64}$	$\frac{15}{32}$	$\frac{5}{32}$	$\frac{5}{64}$	$2\frac{21}{32}$	$3\frac{1}{8}$	$1\frac{13}{32}$	$\frac{55}{64}$	$2\frac{1}{2}$	$1\frac{7}{8}$	$2\frac{13}{16}$	$\frac{15}{64}$	$1\frac{31}{64}$	$3\frac{1}{2}$	$2\frac{11}{32}$	$5\frac{45}{64}$	$1\frac{51}{64}$	$1\frac{1}{4}$	$\frac{5}{8}$	$2\frac{19}{64}$	$4\frac{49}{64}$
6	$1\frac{1}{8}$	$5\frac{17}{32}$	$6\frac{3}{16}$	$4\frac{5}{16}$	$4\frac{1}{2}$	$1\frac{31}{32}$	$\frac{9}{16}$	$\frac{3}{16}$	$\frac{3}{32}$	$3\frac{9}{16}$	$3\frac{3}{4}$	$1\frac{11}{16}$	$1\frac{1}{32}$	3	$2\frac{1}{4}$	$3\frac{3}{8}$	$\frac{9}{32}$	$1\frac{25}{32}$	$4\frac{7}{32}$	$2\frac{13}{16}$	$6\frac{27}{32}$	$2\frac{5}{32}$	$1\frac{1}{2}$	$\frac{3}{4}$	$2\frac{49}{64}$	$5\frac{23}{32}$
7	$1\frac{5}{16}$	$6\frac{29}{64}$	$7\frac{7}{32}$	$5\frac{1}{32}$	$5\frac{1}{4}$	$2\frac{19}{64}$	$\frac{21}{32}$	$\frac{7}{32}$	$\frac{7}{64}$	$4\frac{5}{32}$	$4\frac{3}{8}$	$1\frac{31}{32}$	$1\frac{13}{64}$	$3\frac{1}{2}$	$2\frac{5}{8}$	$3\frac{15}{16}$	$\frac{21}{64}$	$2\frac{5}{64}$	$4\frac{59}{64}$	$3\frac{9}{32}$	$7\frac{63}{64}$	$2\frac{33}{64}$	$1\frac{3}{4}$	$\frac{7}{8}$	$3\frac{7}{32}$	$6\frac{43}{64}$
8	$1\frac{1}{2}$	$7\frac{3}{8}$	$8\frac{1}{4}$	$5\frac{3}{4}$	6	$2\frac{5}{8}$	$\frac{3}{4}$	$\frac{1}{4}$	$\frac{1}{8}$	$4\frac{3}{4}$	5	$2\frac{1}{4}$	$1\frac{3}{8}$	4	3	$4\frac{1}{2}$	$\frac{3}{8}$	$2\frac{3}{8}$	$5\frac{5}{8}$	$3\frac{3}{4}$	$9\frac{1}{8}$	$2\frac{7}{8}$	2	1	$3\frac{11}{16}$	$7\frac{5}{8}$
12	$2\frac{1}{4}$	$11\frac{1}{16}$	$12\frac{3}{8}$	$8\frac{5}{8}$	9	$3\frac{15}{16}$	$1\frac{1}{8}$	$\frac{3}{8}$	$\frac{3}{16}$	$7\frac{1}{8}$	$7\frac{1}{2}$	$3\frac{3}{8}$	$2\frac{1}{16}$	6	$4\frac{1}{2}$	$6\frac{3}{4}$	$\frac{9}{16}$	$3\frac{9}{16}$	$8\frac{7}{16}$	$5\frac{5}{8}$	$13\frac{11}{16}$	$4\frac{5}{16}$	3	$1\frac{1}{2}$	$5\frac{17}{32}$	$11\frac{7}{16}$
18	$3\frac{3}{8}$	$16\frac{19}{32}$	$18\frac{9}{16}$	$12\frac{15}{16}$	$13\frac{1}{2}$	$5\frac{29}{32}$	$1\frac{11}{16}$	$\frac{9}{16}$	$\frac{9}{32}$	$10\frac{11}{16}$	$11\frac{1}{4}$	$5\frac{1}{16}$	$3\frac{3}{32}$	9	$6\frac{3}{4}$	$10\frac{1}{8}$	$\frac{27}{32}$	$5\frac{11}{32}$	$12\frac{21}{32}$	$8\frac{7}{16}$	$20\frac{17}{32}$	$6\frac{15}{32}$	$4\frac{1}{2}$	$2\frac{1}{4}$	$8\frac{5}{16}$	$17\frac{5}{32}$

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