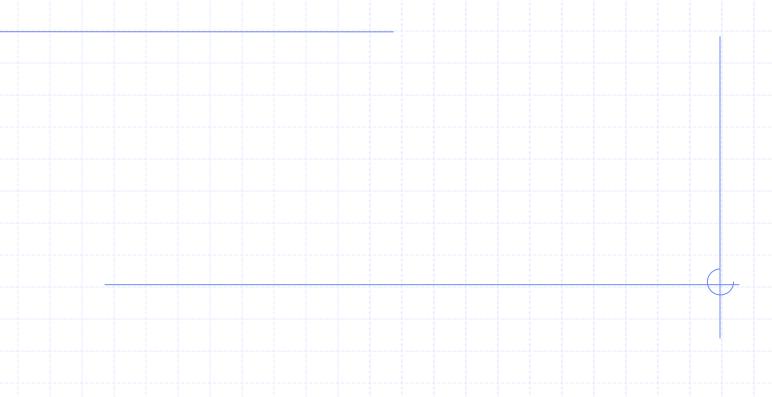
# **Engineering Lettering**



# **Objectives**

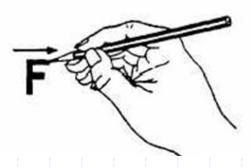
#### Tips and Techniques



# Patience and practice needed

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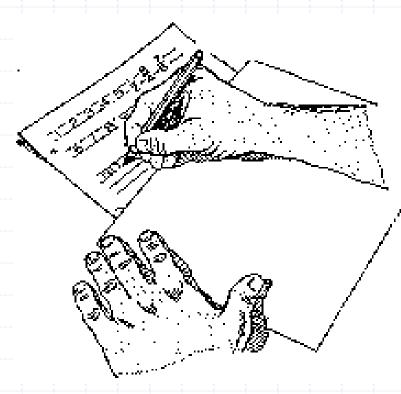


# Lettering Notes

Lettering Guidelines – Handout Lettering Styles Shape of Letters Order of Drawing Lines Character Uniformity Spacing

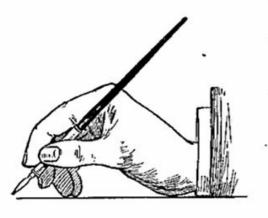
#### **Pencil Techniques**

The best pencil for lettering on most surfaces are the H, F, and HB grades. Hold your pencil in the position shown. It should make approximately a 60° angle with the paper.



#### **Pencil Techniques**

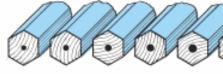
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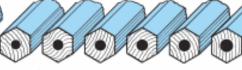


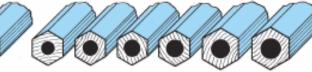


F10. 105 .- Position for lettering.

# Pencil Lead Designation







9H 8H 7H 6H 5H 4H

3H 2H H F HB B

2B 3B 4B 5B 6B 7B

Note: Reverse order below

	SOFT FREE HAND DRAWING					MEDIUM FREE HAND DRAWING AND GENERAL LAYOUT						HARD TECHNICAL DRAWING					
~	<b>B</b>	<b>B</b>	4B •	3B	28 •	●	HB	•	●	(•)¥	•	4H •	5H	<b>8</b>	<b>™</b>	8H •	9H ••
<b>F</b> -		III												Ξ	=		$\equiv$

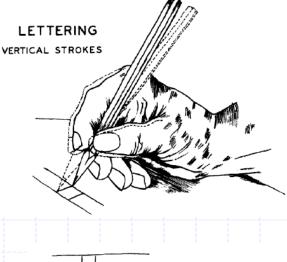
#### **Freehand Lettering**

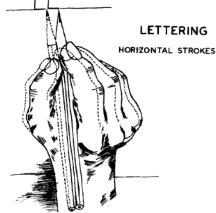
Developing good lettering is a personal skill which takes practice. Letters must be formed properly.

They must be open shaped very legible.

Clear communication is essential to avoid mistakes and reduce waste.

Lettering may be done using a drafting type pencil, lead holder or technical pen. Which ever tool is used, the letters must properly formed and very black





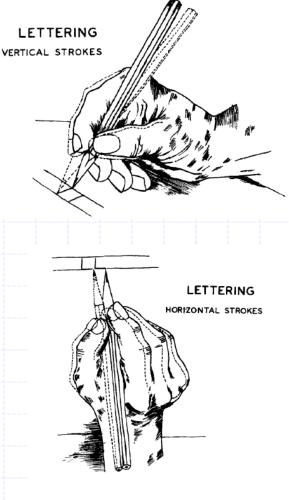
VERTICAL CAPITALS

#### **Freehand Lettering**

Pull the pencil or pen across the paper. All lettering strokes should be a pulling motion.

Right-handed and lefthanded drafters may have to develop different styles for forming letters.

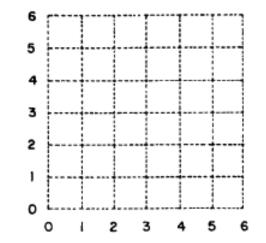
Press down hard when using a pencil.



VERTICAL CAPITALS

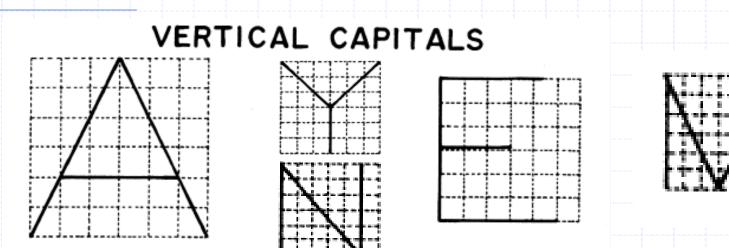
#### **Freehand Lettering**

#### VERTICAL CAPITALS

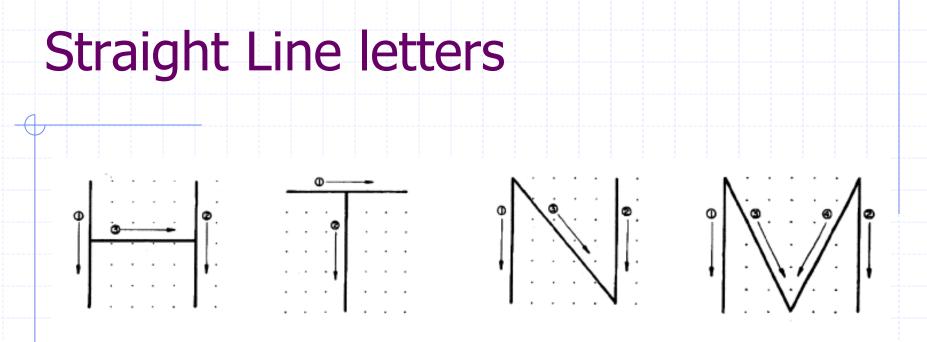


Vertical capital letters are preferred for most technical work. They are formed within a 6 by 6 grid.

#### Straight Line letters



Most letters are slightly narrower than they are tall. The shapes of the letters are as open as possible. Letters with small loops and crossing strokes are avoided



This sequence is recommended to assure that each letter is the correct width in relation in height. For example, form the two vertical sides of the "H", "N" and "M" first. Form the top of the "T" first.

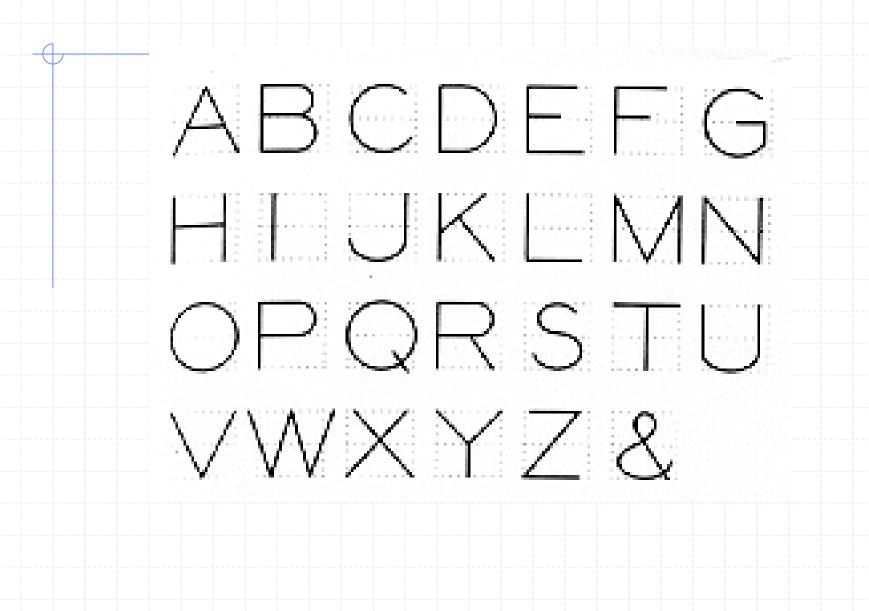
#### Straight Line letters

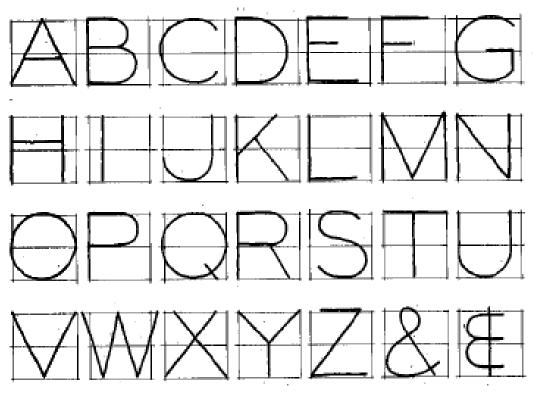
- The "H" and "N" are slightly narrower than they are tall.
- The "T" and the "M" are just as wide as they are tall
- **Note:** Proportion: width vs. height is very important in forming letters.

#### Lettering

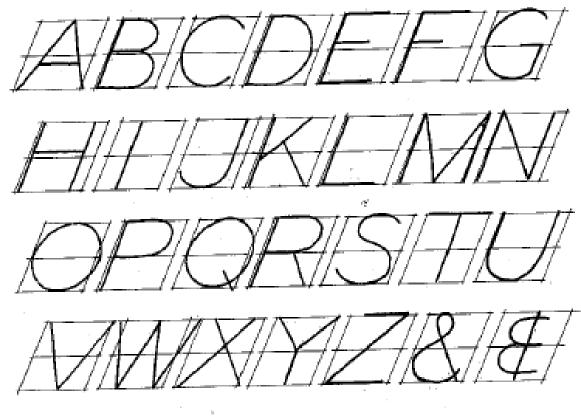
#### The style of engineering lettering we will use in this course is Single Stroke Gothic Lettering

 Notice that only capital letters are demonstrated, since we will use only capital letters on drawings

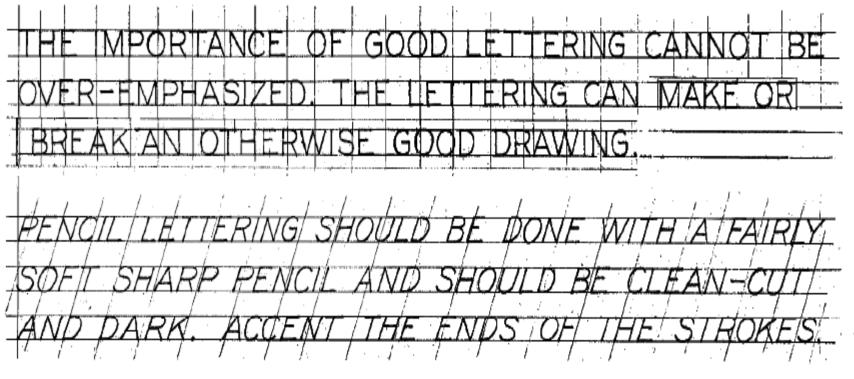




EXAMPLE OF VERTICAL ENGINEERING LETTERING.



EXAMPLE OF INCLINED ENGINEERING LETTERING



EXAMPLES OF GOOD COMPOSITION USING ENGINEERING LETTERING.

ESTIMATE

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ESTIMATE ESTIMATE

ESTIMATE ESTIMATE

ESTIMATE

ESTIMATE

Letters not uniform in style.

Letters not uniform in height.

Letters not uniformly vertical or inclined.

Letters not uniform in thickness of stroke.

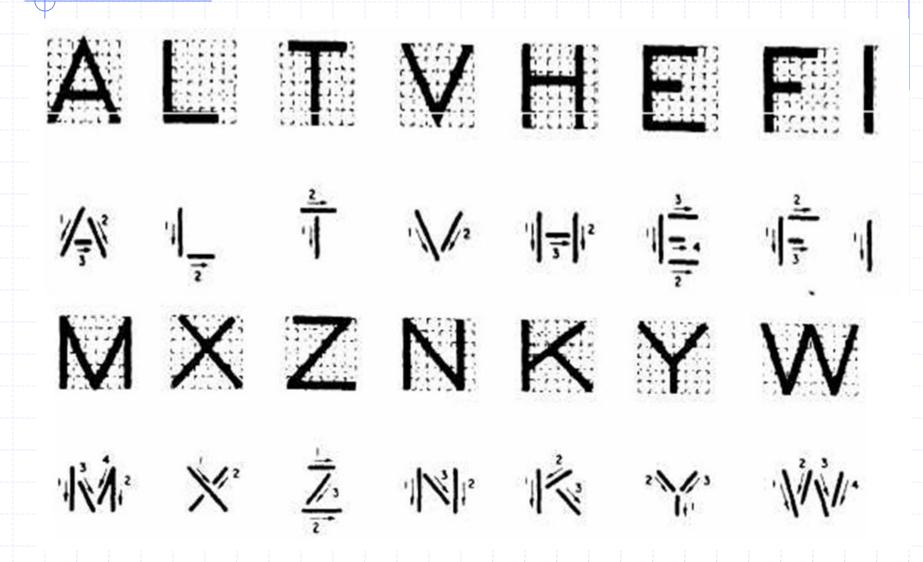
ESTMATE

Areas between letters not uniform.

EXAMPLES OF LETTERING ERRORS



EXAMPLES OF LETTERING ERRORS





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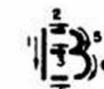


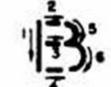








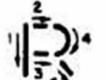












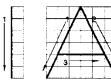
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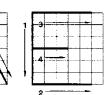




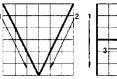


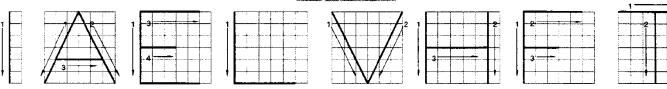
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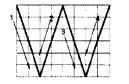


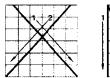


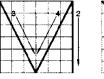


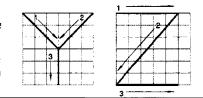


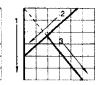




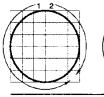


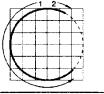


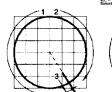


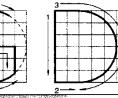


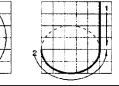






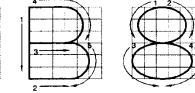


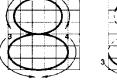


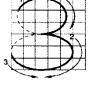












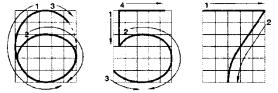










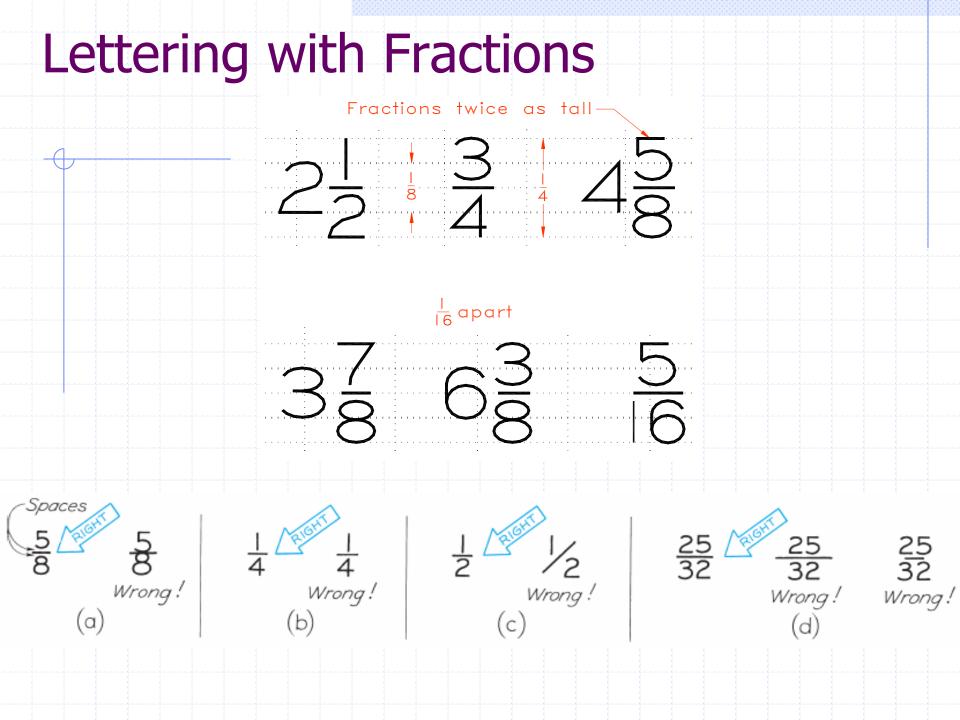




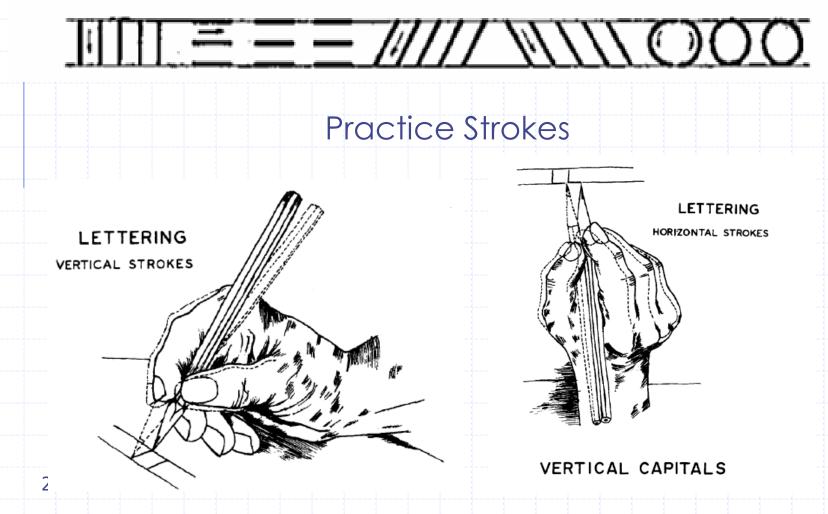




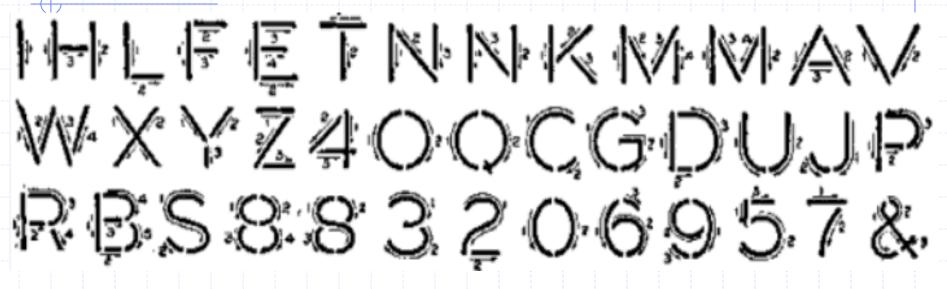
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# Your Turn! Practice Engineering Lettering



# Your Turn! Practice Engineering Lettering



Order and direction of Strokes

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