CMCE New York City College of Technology
Construction Management & Civil Engineering Technology

CMCE 1110 – CONSTRUCTION ENGINEERING DRAWING I

Drawing #5: Geometric Constructions and Window Schedule

On a properly formatted & bordered 18" x 24" piece of drafting vellum (with proper title block along the right hand side of your paper), you are to construct a series of (10) ten objects using geometric construction techniques.

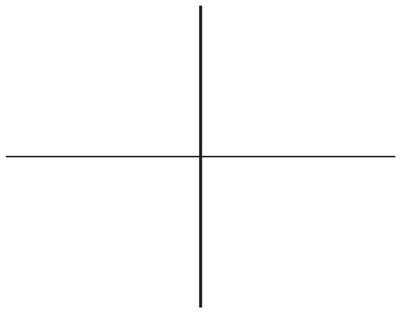
- The 18" x 24" will be divided into (3) three columns.
    - This assignment will have no indents from the borders to the guide boxes.
    - The left (2) two columns will be divided into 4 rows. (As a result, each of the left two columns will have (4) four guide boxes.)
    - Each guide box will be 5 5/8" wide and 4 ¼" high and will have no spacing in between them. (The guide boxes are also to be given a dark, presentable border).

- The third column will not be the same dimensions as the left two columns.
    - The third column will be immediately to the right of column #2 and will have two (2) guide boxes in it.
    - These guide boxes will have a measurement of 8 1/2" high x 8 3/4" wide.

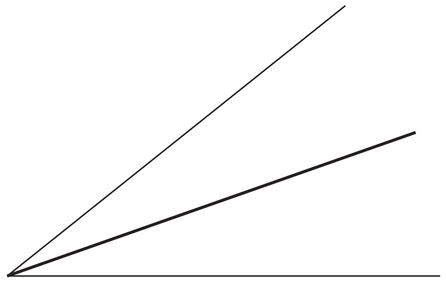
- Each guide box shall be labeled with the appropriate name. The lettering should be ¼" high and offset from the bottom of each guide box by 1/8".

Please refer to the handouts to see the exact nature or each exercise that is to be constructed within each of the (10) ten guide boxes.

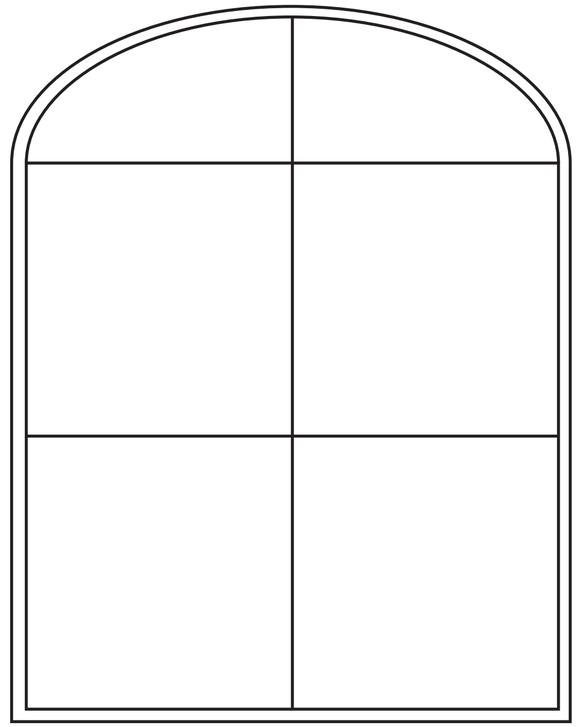
Do not wait until the last minute; this assignment will take time!



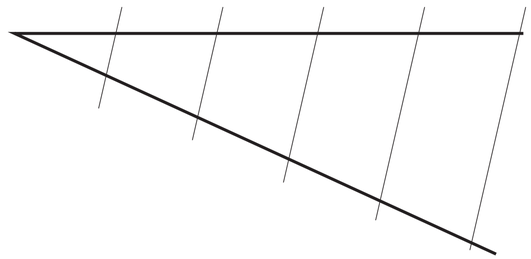
PERPENDICULAR BISECTOR



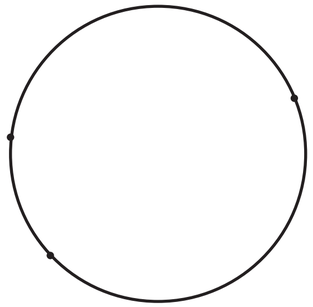
BISECTING AN ANGLE



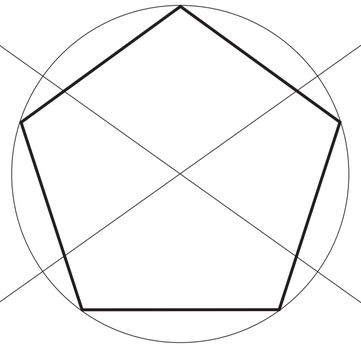
SQUARE WINDOW WITH ELLIPTICAL TRANSOM



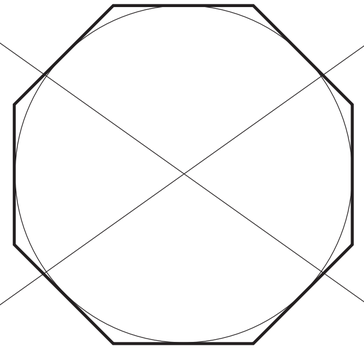
DIVIDING A LINE INTO EQUAL PARTS



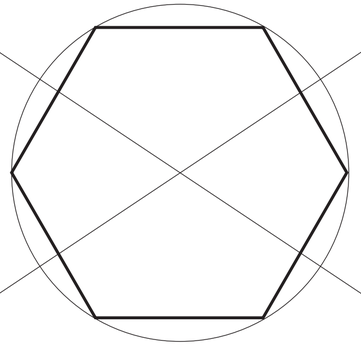
A CIRCLE THROUGH RANDOM POINTS



INSCRIBED PENTAGON



CIRCUMSCRIBED OCTAGON



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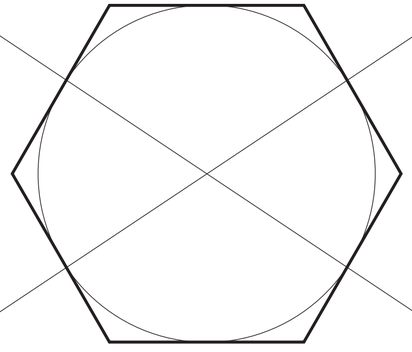

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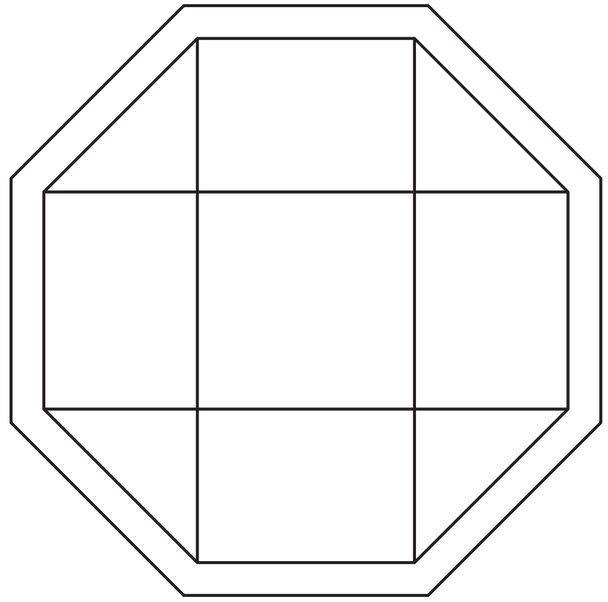

OCTAGONAL WINDOW

ESHERICK HOUSE
204 SUNRISE LANE
PHILADELPHIA, PA 19118
LOUIS KAHN, 1961

NOTES:

NEW YORK CITY COLLEGE OF TECHNOLOGY

DRAWN BY:
NAME

DATE:

SCALE: NONE

GEOMETRIC CONSTRUCTIONS
WINDOW SCHEDULE

A-002