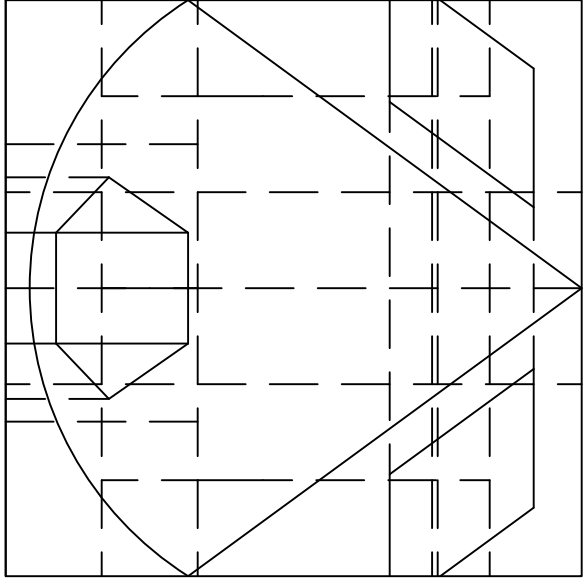
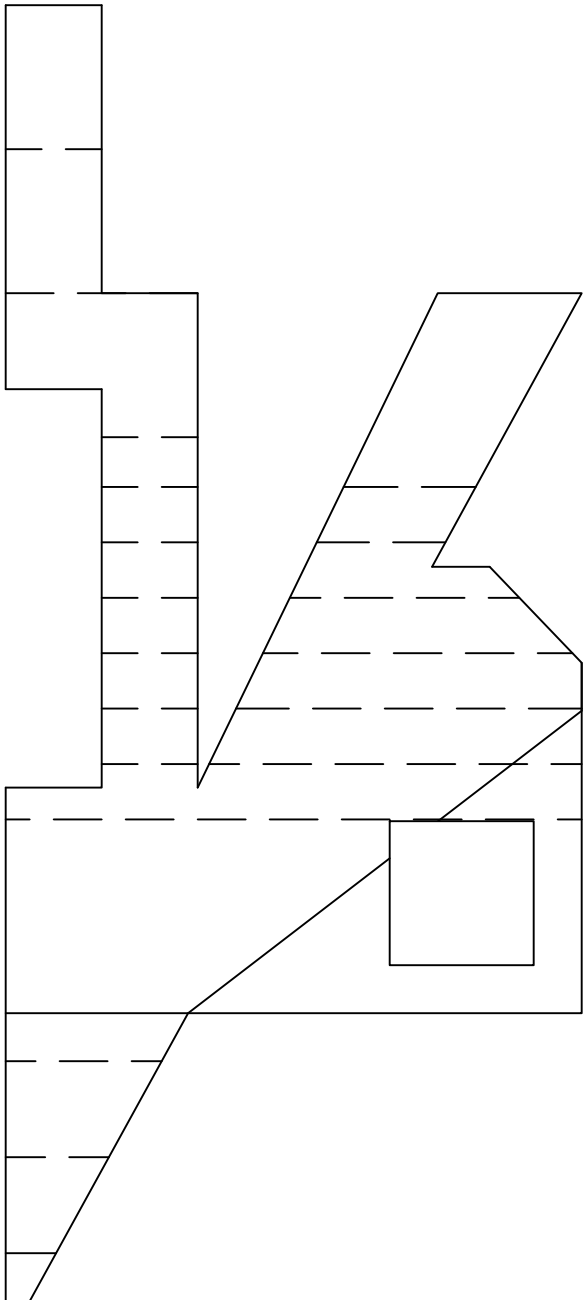
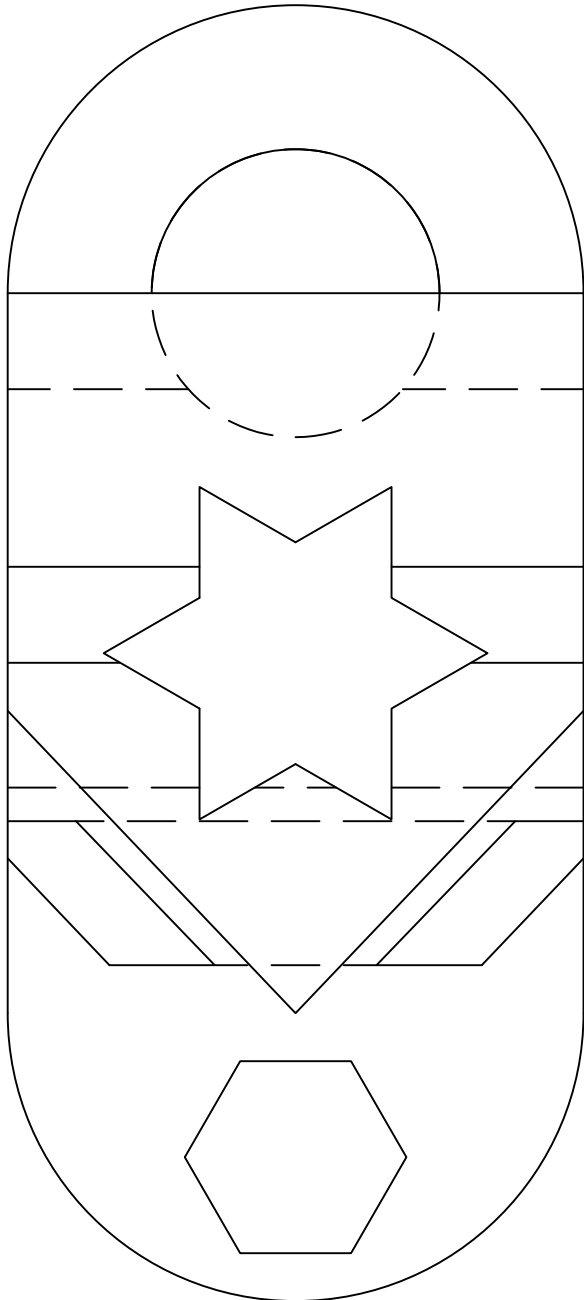
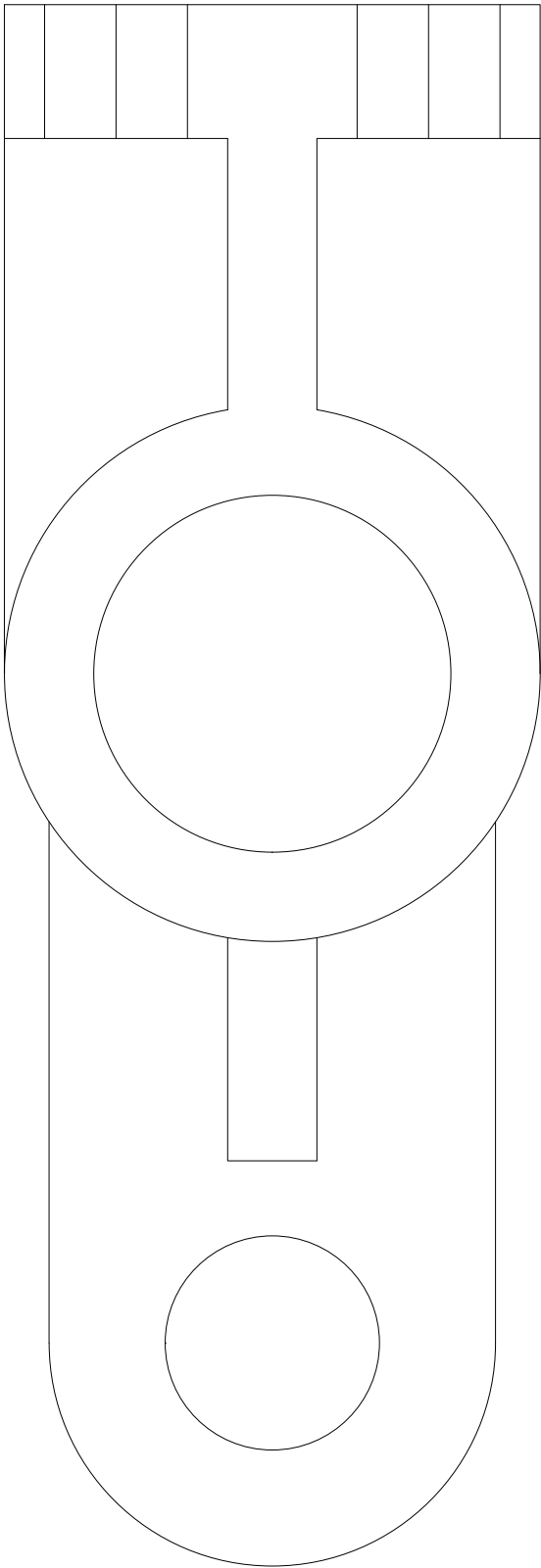
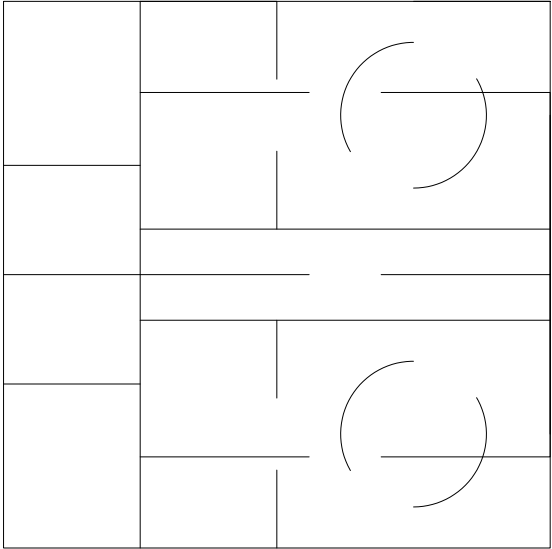
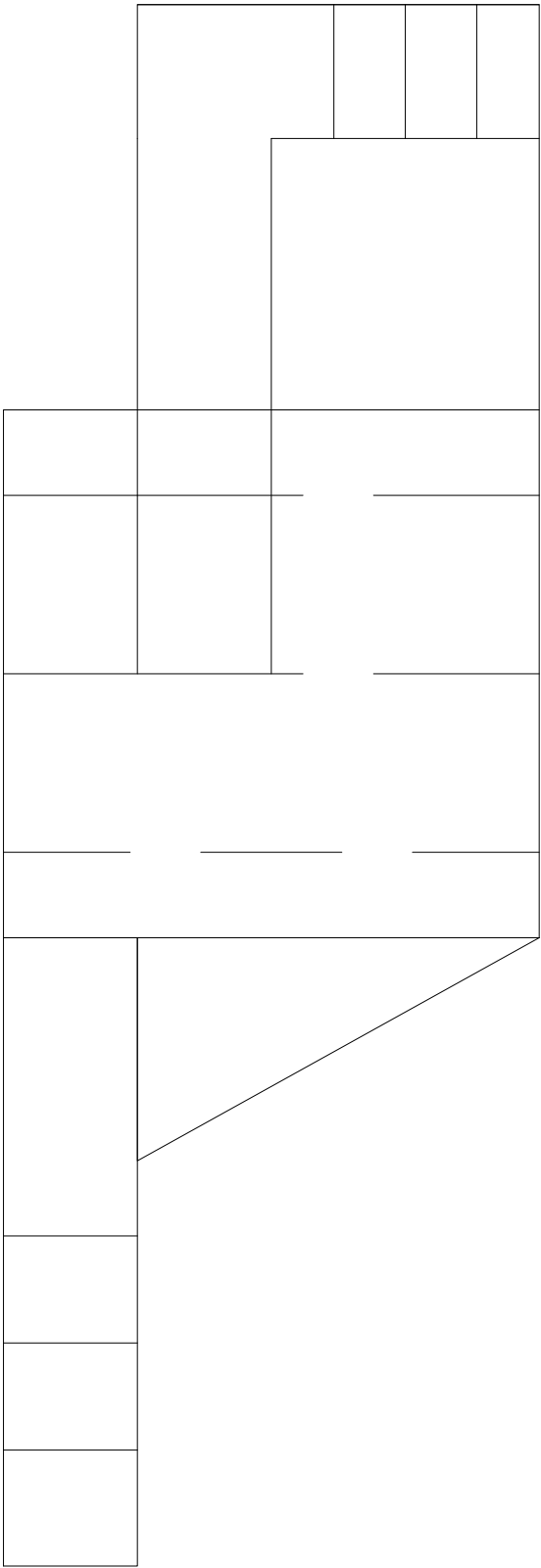
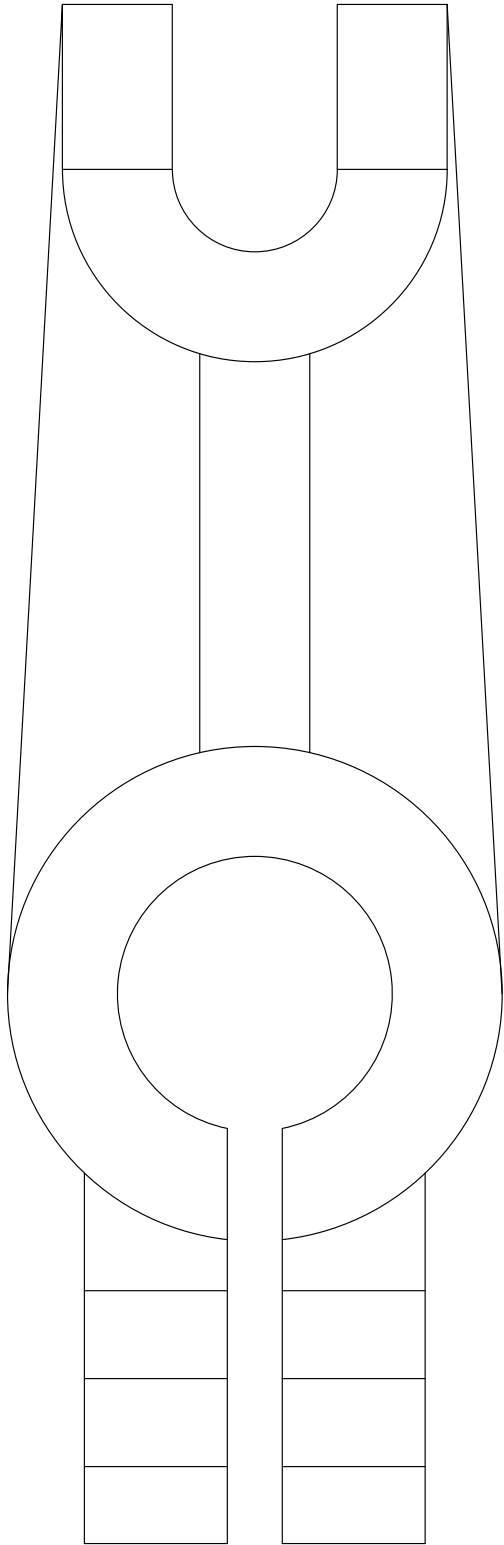
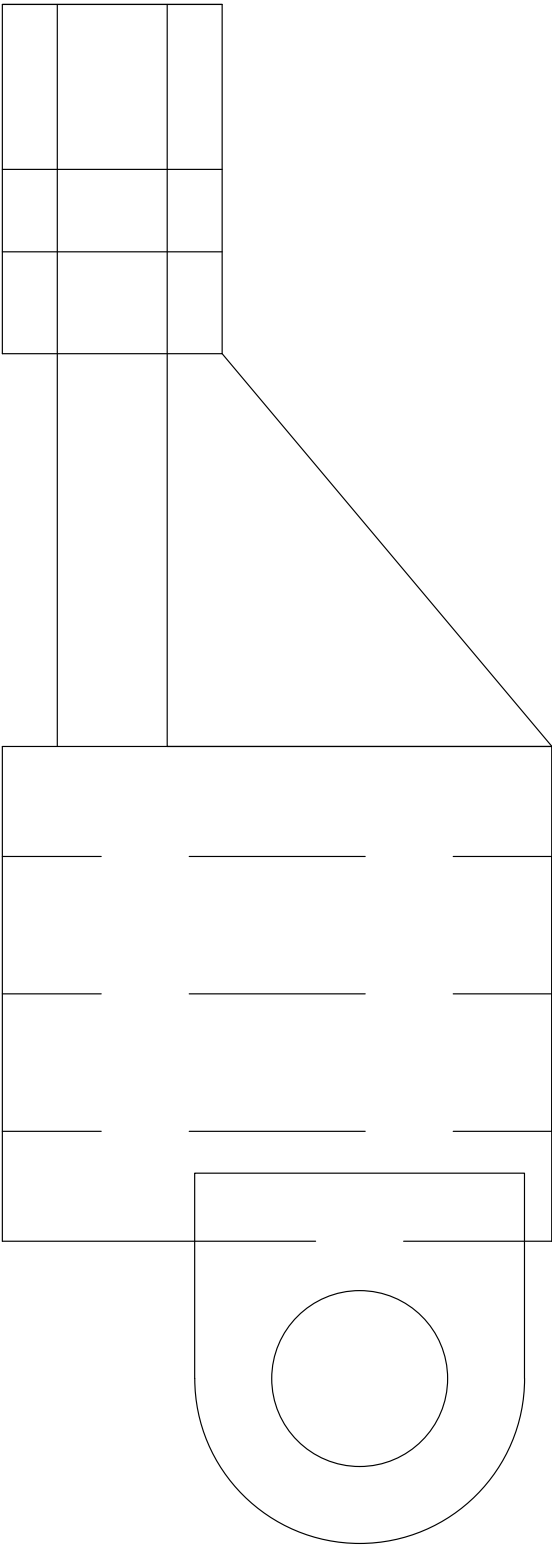
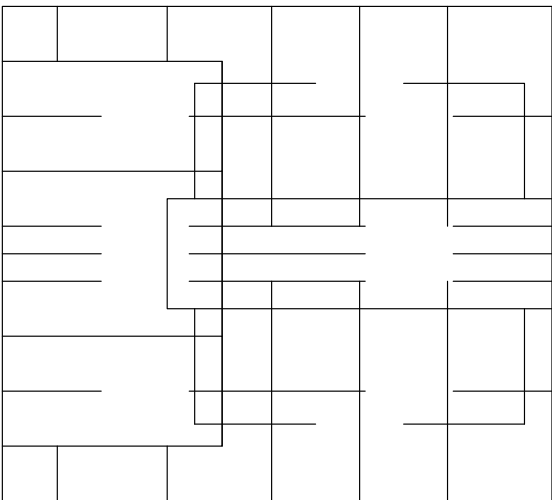
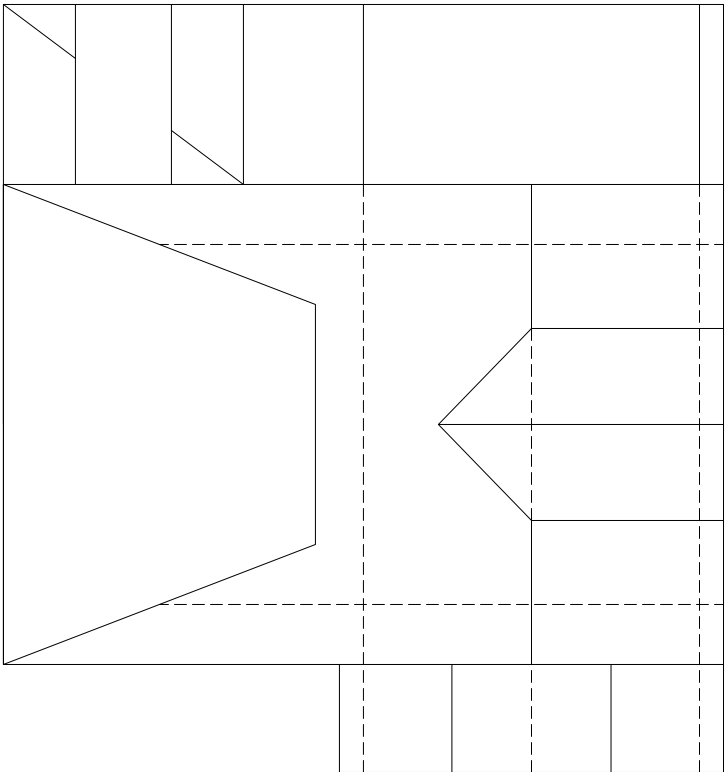






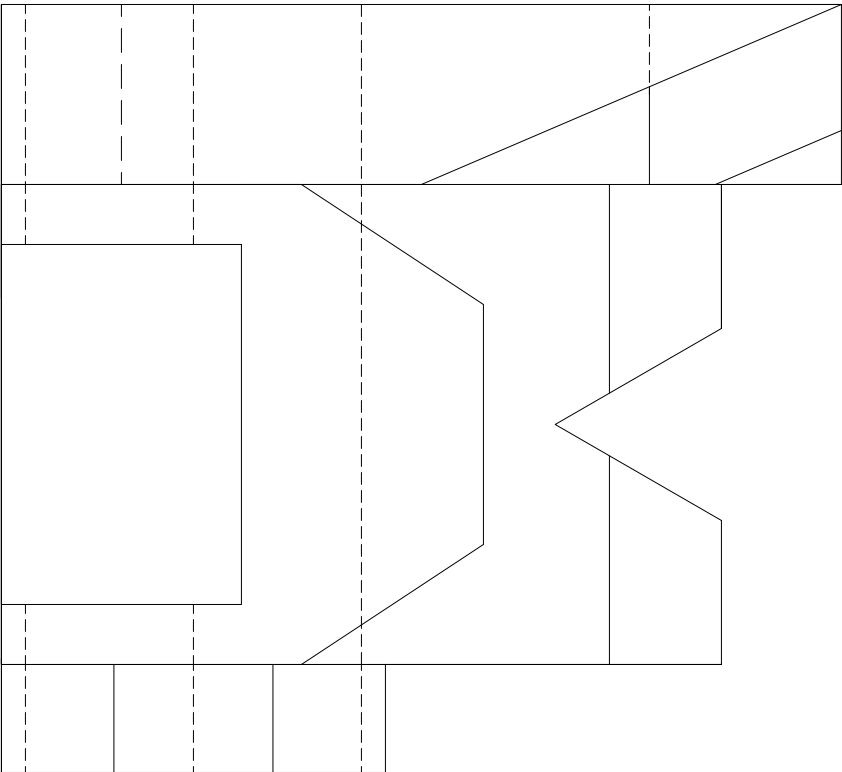


Top

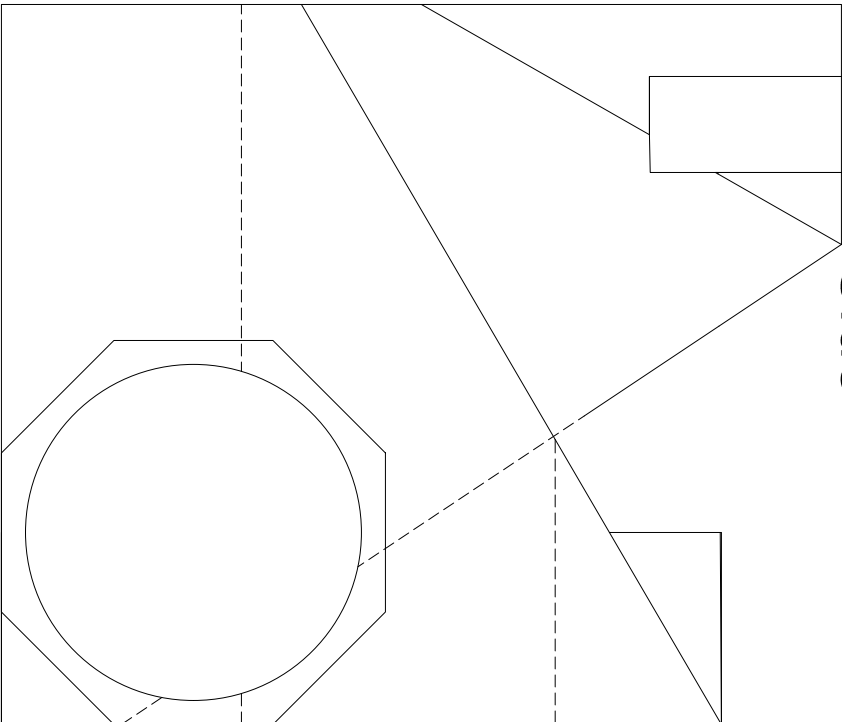


Ryan Boruso Sec. 9

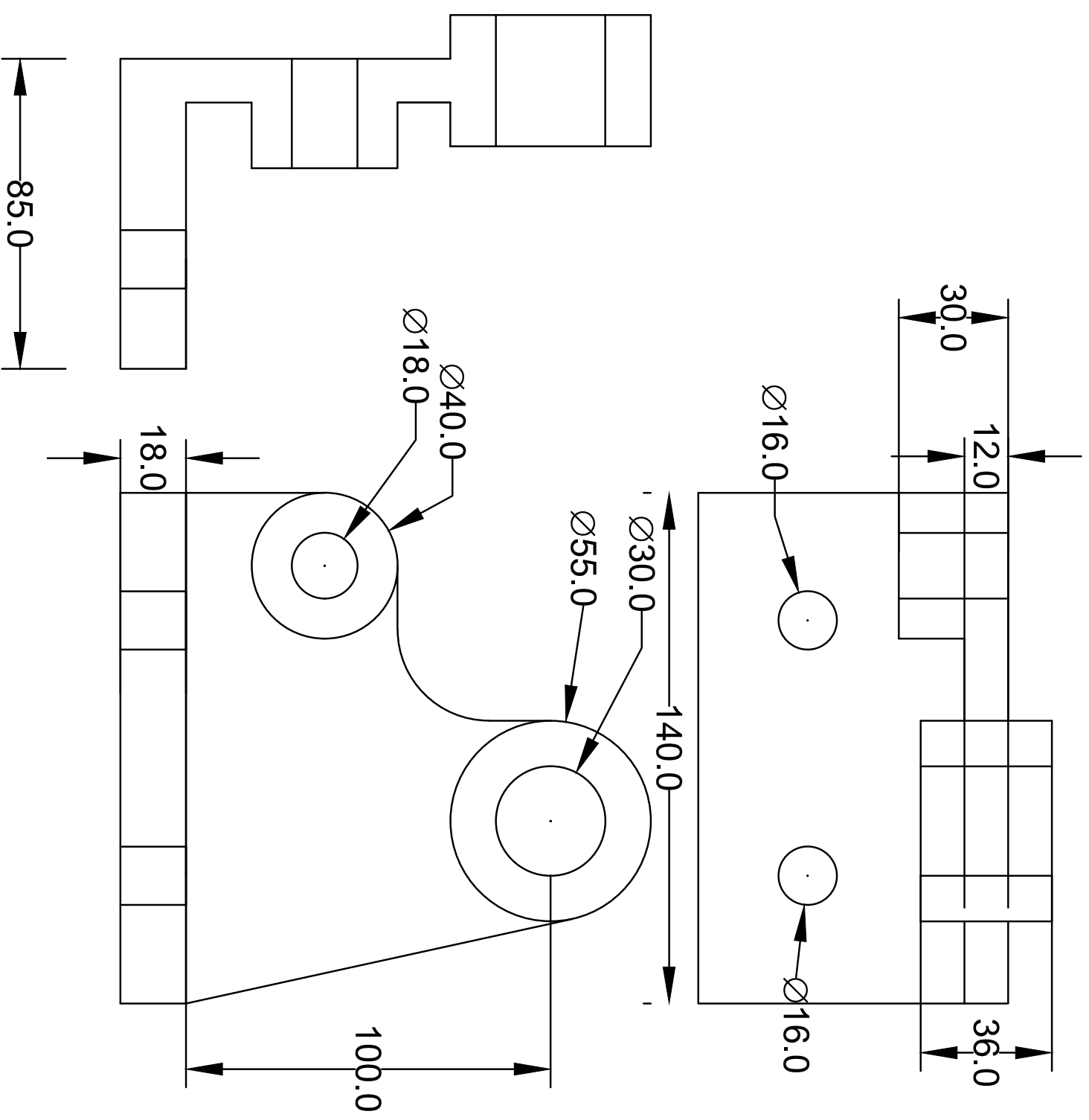
Front



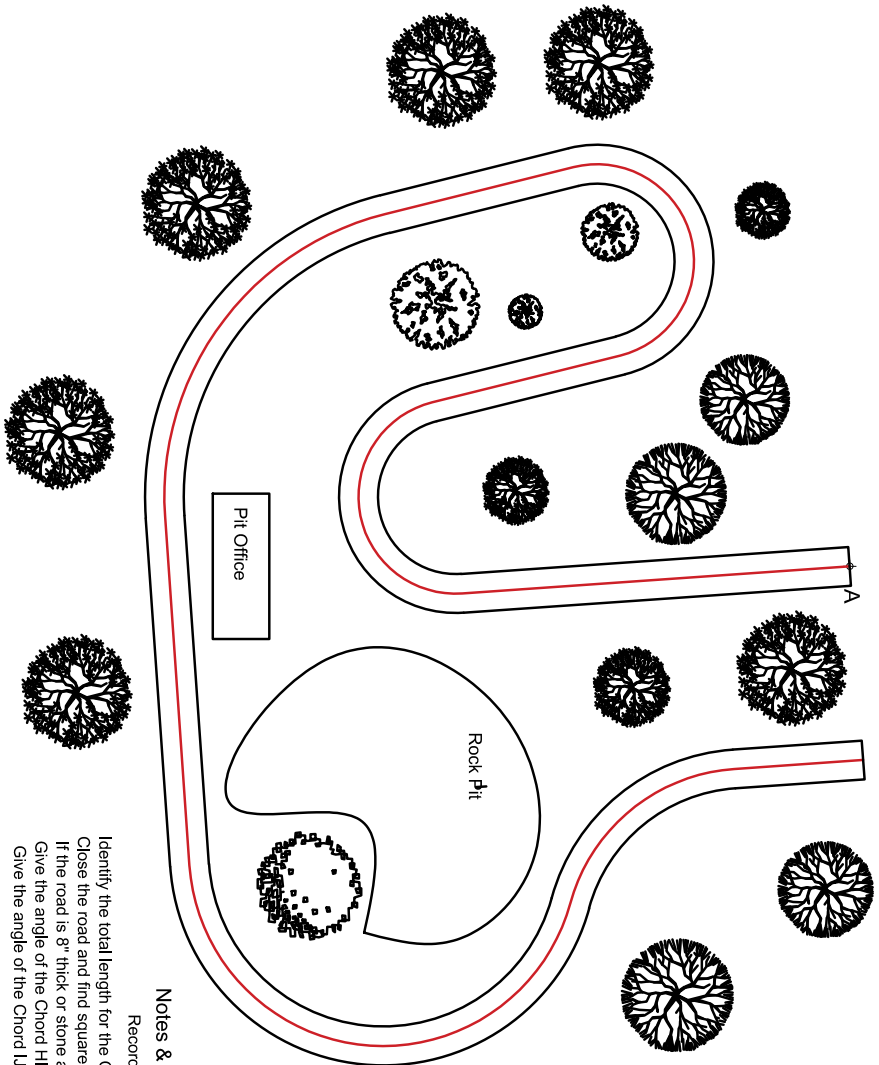
Side



Ryan
Borruso
Sec. 9



Ryan Borruso Sec. 9



Notes
Line DC and line EF are the same distance and parallel
Line AB and line GH are perpendicular
Line AB and line KJ are parallel

AB	300
BC	225.5
CD	150
DE	235.6
EF	150.0
FG	314.2
GH	270
HI	420.7
IJ	174.4
JK	100

Instructions:

Using AutoCAD, draw the road as shown in the provided image.

Ensure that:

- Units are set to decimal
- Angles are entered in surveying format (Degrees° Minutes' Seconds")
- Once the road layout is complete, answer the following analysis questions:
- If you hit a tree-- your project is off track and needs to be analyzed and redone.

Post-Drawing Calculations:

1. What is the total centerline length of the road?
2. What is the total surface area of the road (plan view)?
3. If the road is 8" thick of concrete, how many cubic yards of material are required for the entire road?
4. If the road base is composed of 8 inches of crushed stone, how many cubic yards of material are required for the entire road?
5. What is the angle the Chord HI makes according to Surveying degrees?
6. What is the angle the Chord IJ makes according to Surveying Units?
7. What would be the cost estimate be if stone costs \$40/yard³ delivered?
8. What would be the cost estimate be if concrete is \$180/yard delivered?

1. 2337.400
2. 70122.400
3. 1731.417
4. 1731.417
5. 150.0
6. 141.4
7. \$69296.08
8. \$311655.06

Notes & Questions to Answer

Record ALL answers to 3 decimal places

Identify the total length for the Centerline of the Road = 2337.400

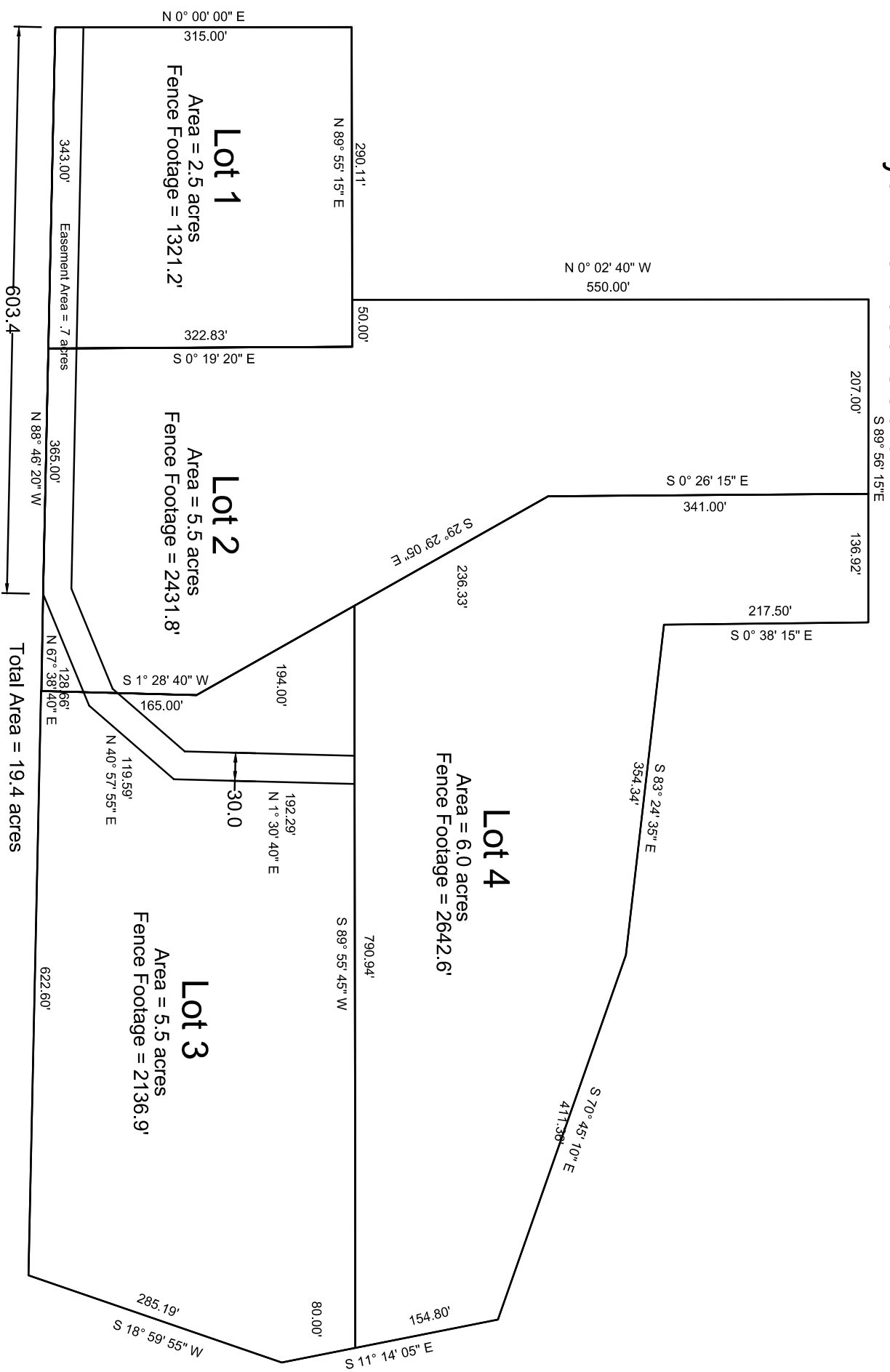
Close the road and find square footage of pavement needed = 70122.400

If the road is 8" thick of stone and 8" of asphalt-- identify the total yards needed of each = 46748.267

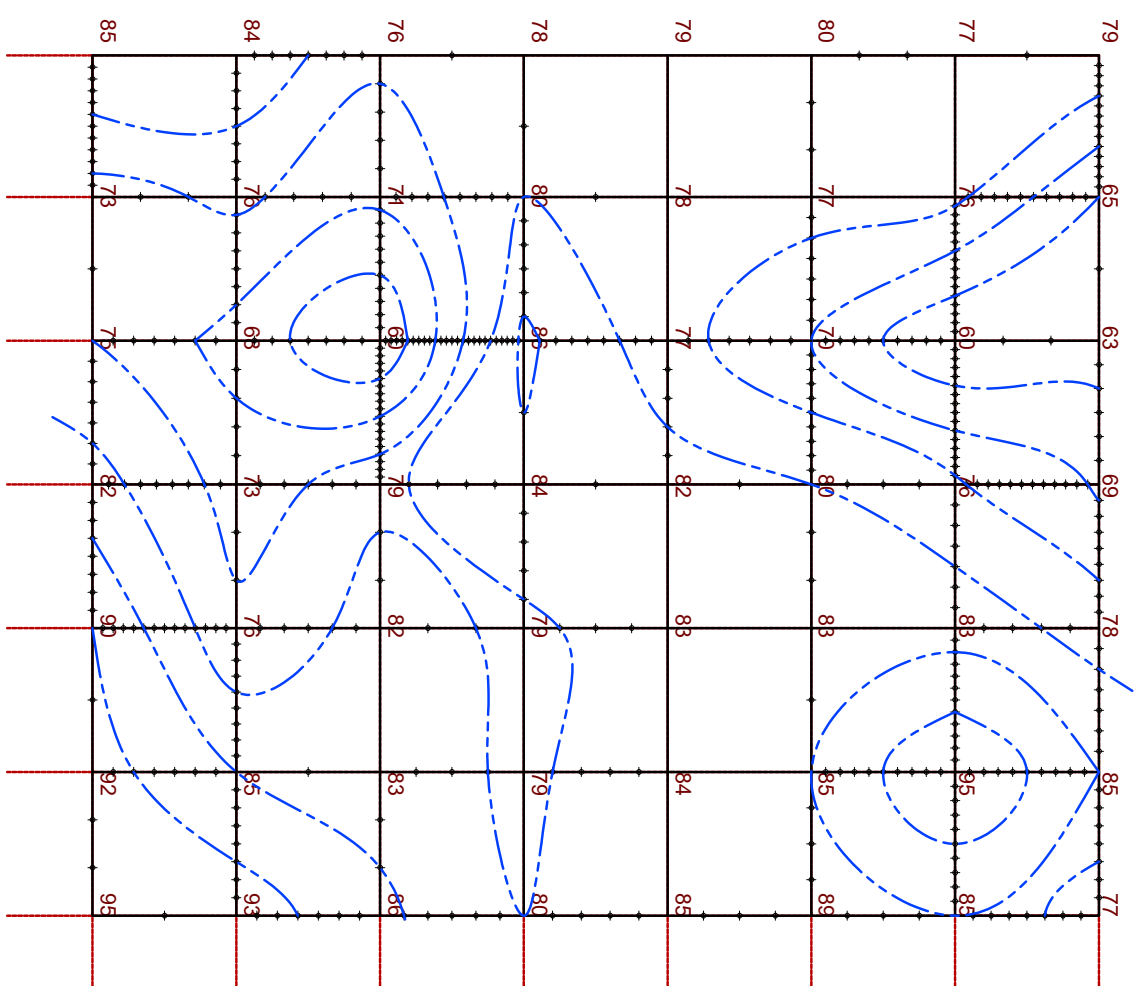
Give the angle of the Chord HI 161 degrees

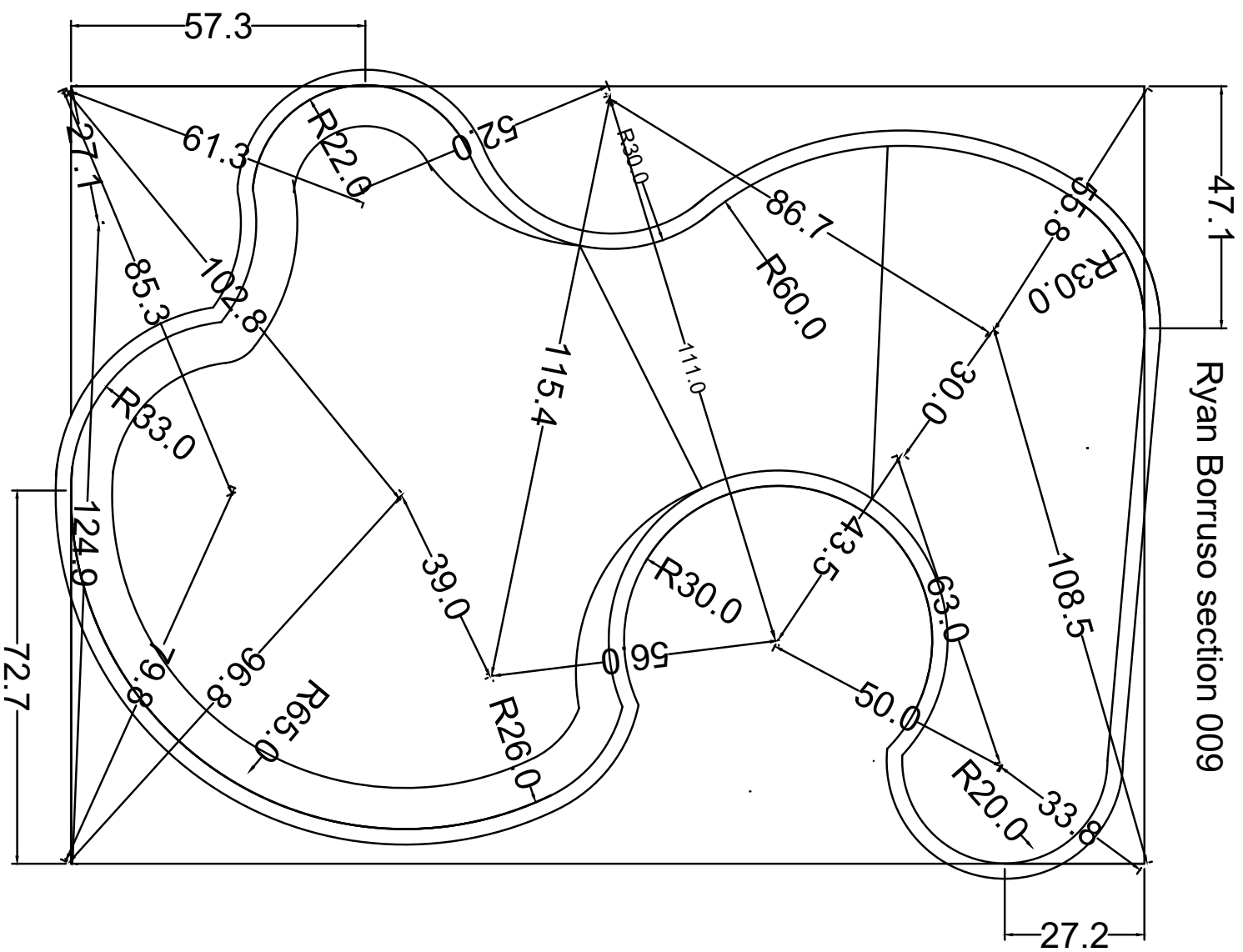
Give the angle of the Chord IJ 71 degrees

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Below is a grid where a topographic survey was made. You are to draw the Five (5) foot contour lines (65, 70, 75... etc.) on the grid. Interpolation should be used to determine the location of the contours as closely as possible. Keep in mind the rules of contouring.





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