

DOCUMENT REVISION HISTORY

| REV. | DATE | DESCRIPTION | AUTHORIZATION |
|------|----------|-------------------|---------------|
| 0 | 11/22/25 | DOCUMENT CREATION | CHRIS DILLOW |
| | | | |
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| | | | |

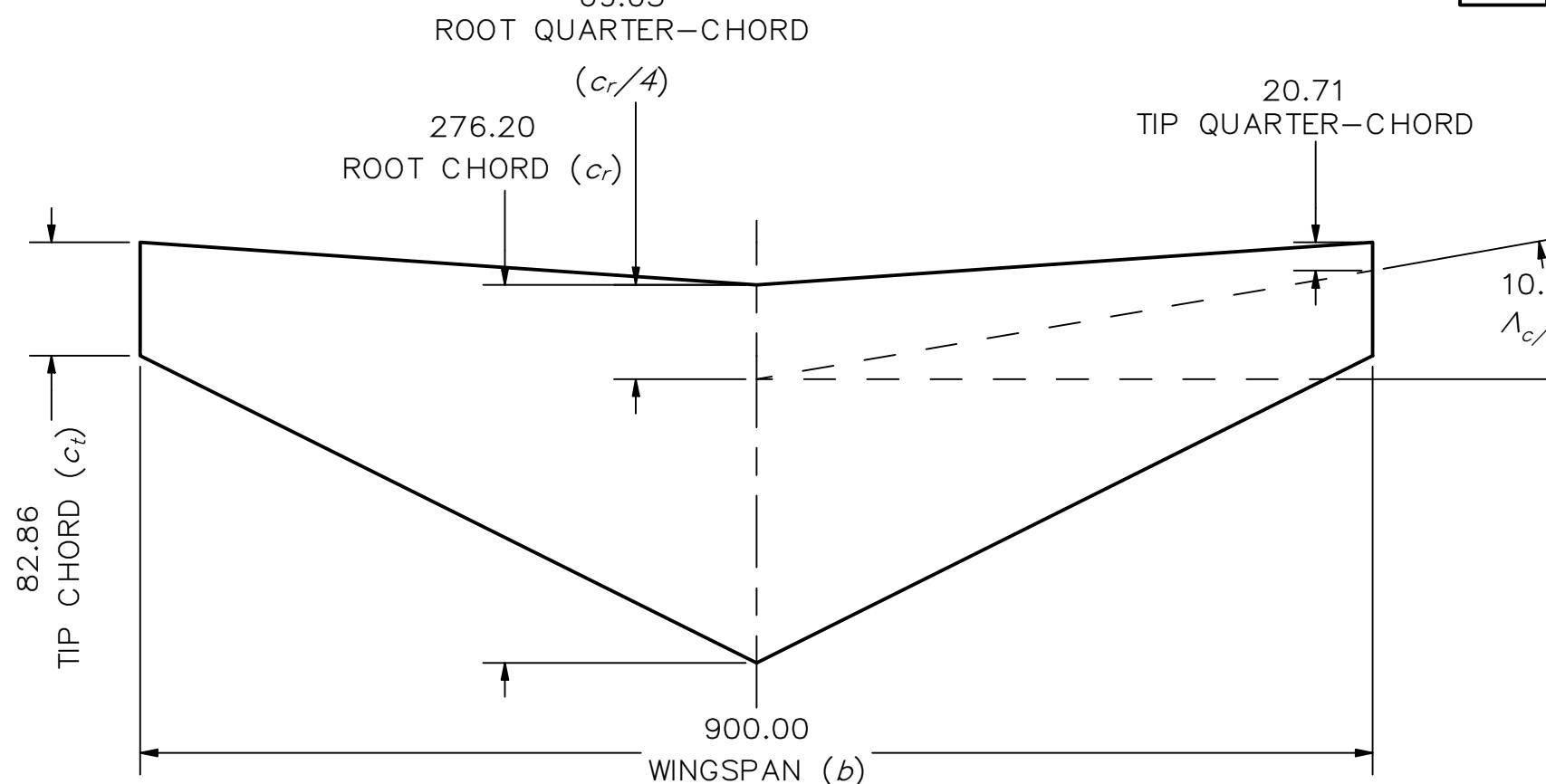
69.05
ROOT QUARTER-CHORD

($c_r/4$)

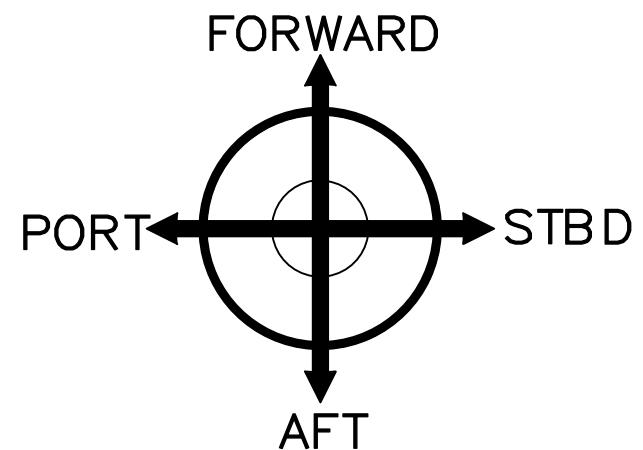
276.20
ROOT CHORD (c_r)

20.71
TIP QUARTER-CHORD

10.0°
 $\Lambda_{c/4}$



| VALUES | | |
|-----------------|------------------------|-----------------------------|
| VAR. | NAME | VALUE |
| C_r | Root Chord | 276.199095 mm |
| C_t | Tip Chord | 82.8597285 mm |
| b | Wingspan | 900.0 mm |
| $\Lambda_{c/4}$ | Qtr-Chord Sweep Angle | -10.0 deg. |
| S | Wing Area | 161.5764706 mm ² |
| $c\bar{}$ | Mean Aerodynamic Chord | 196.8803805 mm |
| λ | Taper Ratio | 0.3 |



NOTES

TOLERANCE TABLE

ANGLE OF PROJECTION

DOCUMENT PREPARATION

N1 Preliminary planform sketch for aerodynamic sizing and stability calculations.

USC SI ANGLE

ENGINEER CHRIS DILLOW

N2 Dimensions shown are current working values and are not yet released for manufacture.

X=X=±.016" X=±0.5mm
XXX=±.015" X.X=±0.1mm
XXXX=±.003" X.XX=±0.05mm
XXXXX=±.001" X.XXX=±0.1"
XXXXXX=±.0005"

DRAFTER CHRIS DILLOW

N3 Airfoil selection, washout, twist, and control surface geometry to be defined in later stages.

X=±1.0" X.X=±0.5"
XX=±0.05mm X.XX=±0.1"

CHECKER

N4 Forward sweep shown at $\Lambda_{c/4} = -10^\circ$ based on baseline aerodynamic targets.

X=±1.0" X.X=±0.5"
XX=±0.05mm X.XX=±0.1"

APPROVAL

N5 Planform based on $\lambda = 0.3$ taper ratio and wingspan of 900 mm.

X=±1.0" X.X=±0.5"
XX=±0.05mm X.XX=±0.1"

PM N/A

N6 All dimensions in millimeters unless otherwise noted.

X=±1.0" X.X=±0.5"
XX=±0.05mm X.XX=±0.1"

PROJECT ASSEMBLY

N7

X=±1.0" X.X=±0.5"
XX=±0.05mm X.XX=±0.1"

TROPOCHIEF WING/AIRFOIL

 CAD BY CHRIS

BASELINE WING

GEOMETRY

SHEET:

B

SIZE: B

| PART NUMBER | MATERIAL | MASS | UNIT | SCALE |
|-------------|----------|------|------|-------|
| N/A | N/A | N/A | MM | 1:5 |