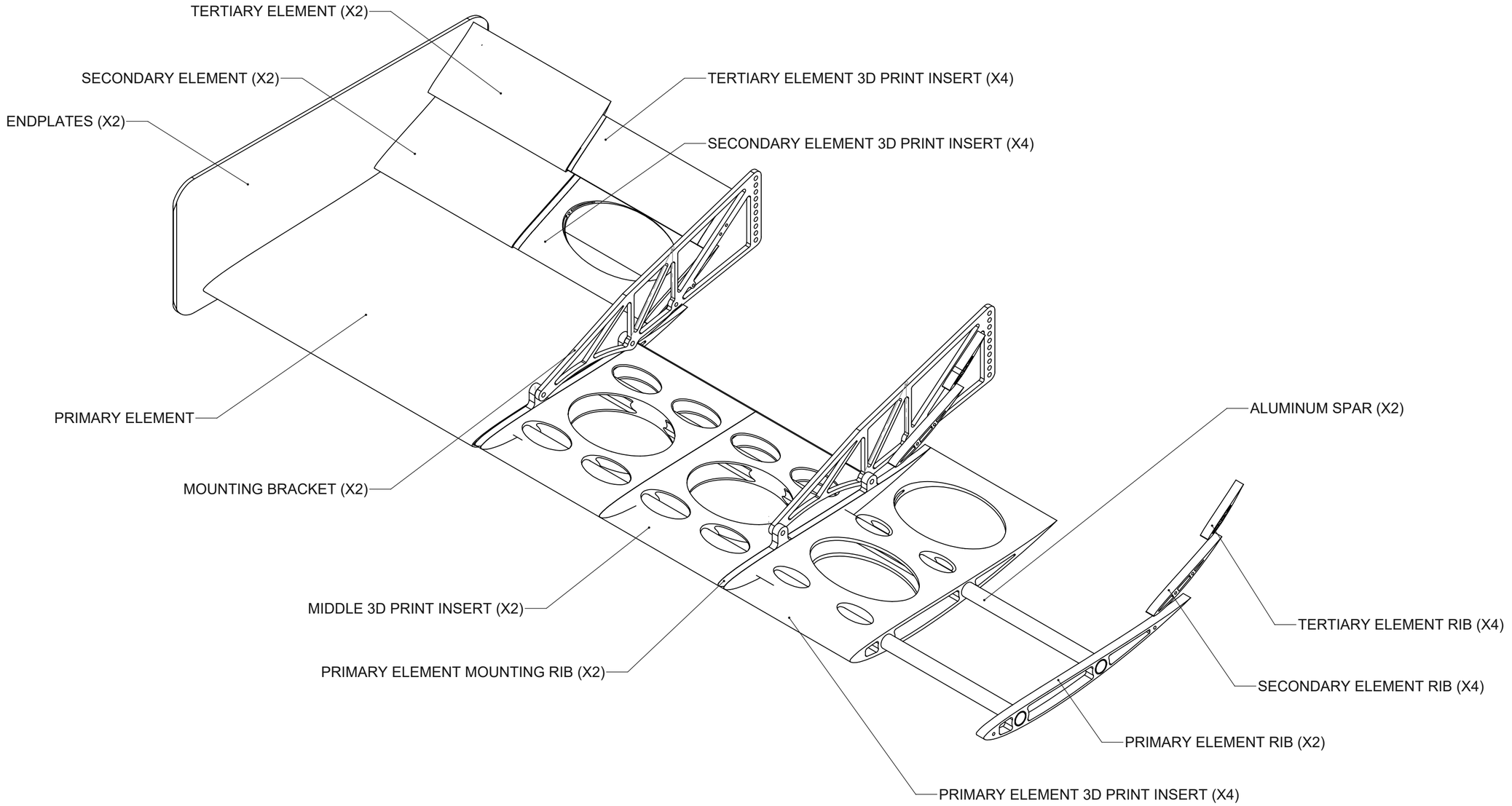


COMMENTS:

All airfoils are E64

MATERIAL:

THIS DRAWING OR THE INFORMATION CONTAINED HEREIN MAY NOT BE REPRODUCED WITHOUT PERMISSION FROM BULLDOG MOTORSPORTS ENGINEERING

NOTES: BREAK ALL SHARP EDGES

TOLERANCES UNLESS OTHERWISE NOTED

DECIMAL .X =±.5 .XX =±.25 .XXX =±.125 ANGLES =±.5°

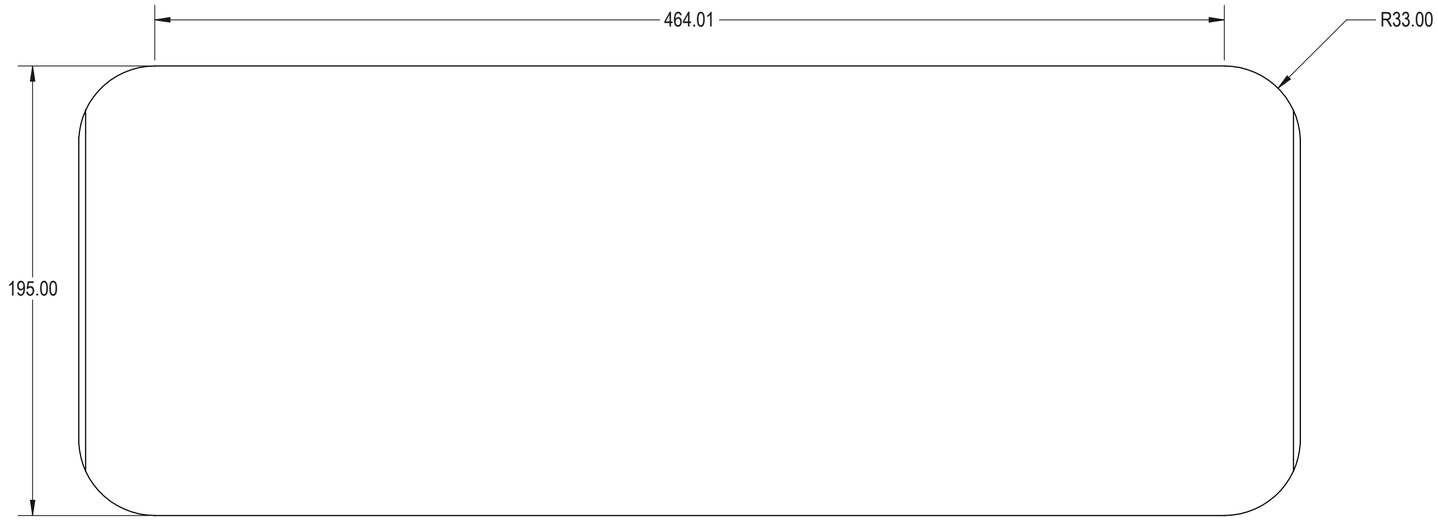
MACHINED SURFACE FINISH 125 RMS MAX

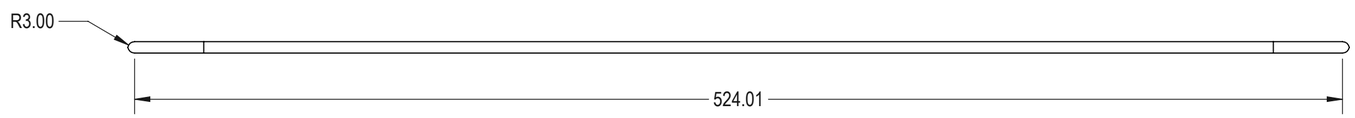
ALL DIMENSIONS ARE MILLIMETERS

SECTION: Aerodynamics		BULLDOG MOTORSPORTS MISSISSIPPI STATE UNIVERSITY	
L1 ASSEMBLY	L1ASSY REV		
DRAWN BY: CARLOS MEDINA	DATE: 3/10/2026	PART NAME: 2026 Front Wing	
SECTION LEAD APPROVAL	DATE	SIZE: C	SCALE: 1:10 / SHEET: 1 OF 1
TEAM LEAD APPROVAL	DATE	PART NUMBER	REV

SOLIDWORKS Educational Product. For Instructional Use Only.

DATE PRINTED: 3/10/2026 FILE LOCATION:

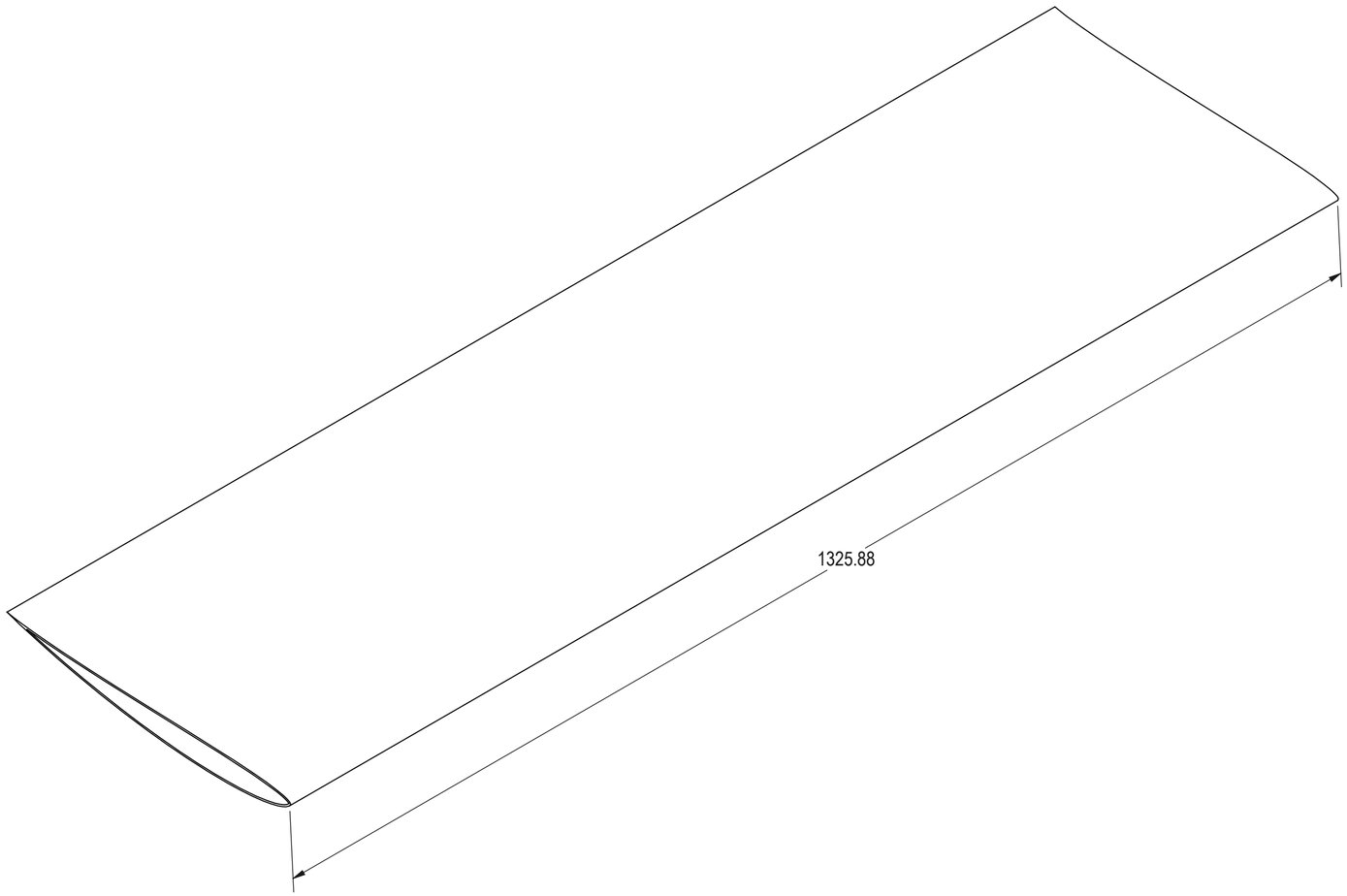




COMMENTS:	THIS DRAWING OR THE INFORMATION CONTAINED HEREIN MAY NOT BE REPRODUCED WITHOUT PERMISSION FROM BULLDOG MOTORSPORTS ENGINEERING	SECTION: Aerodynamics	BULLDOG MOTORSPORTS, MISSISSIPPI STATE UNIVERSITY
	NOTES: BREAK ALL SHARP EDGES	L1 ASSEMBLY	L1ASSY REV
MATERIAL:	TOLERANCES UNLESS OTHERWISE NOTED DECIMAL .X =±.5, .XX =±.25, .XXX =±.125, ANGLES =±.5° MACHINED SURFACE FINISH 125 RMS MAX ALL DIMENSIONS ARE MILLIMETERS	DRAWN BY: CARLOS MEDINA	DATE: 2/28/2026
		SECTION LEAD APPROVAL	DATE
		TEAM LEAD APPROVAL	DATE
		PART NAME: Endplate	
		SIZE: C	SCALE: 1:2
		PART NUMBER	REV
			SHEET: 1 OF 1

SOLIDWORKS Educational Product. For Instructional Use Only.

DATE PRINTED: 2/28/2026 FILE LOCATION:



COMMENTS:

E64 Airfoil
Chord length - 360

MATERIAL:

THIS DRAWING OR THE INFORMATION CONTAINED HEREIN MAY NOT BE REPRODUCED WITHOUT PERMISSION FROM BULLDOG MOTORSPORTS ENGINEERING

NOTES: BREAK ALL SHARP EDGES

TOLERANCES UNLESS OTHERWISE NOTED

DECIMAL .X =±.5
.XX =±.25
.XXX =±.125
ANGLES =±.5°

MACHINED SURFACE FINISH
125 RMS MAX

ALL DIMENSIONS ARE MILLIMETERS

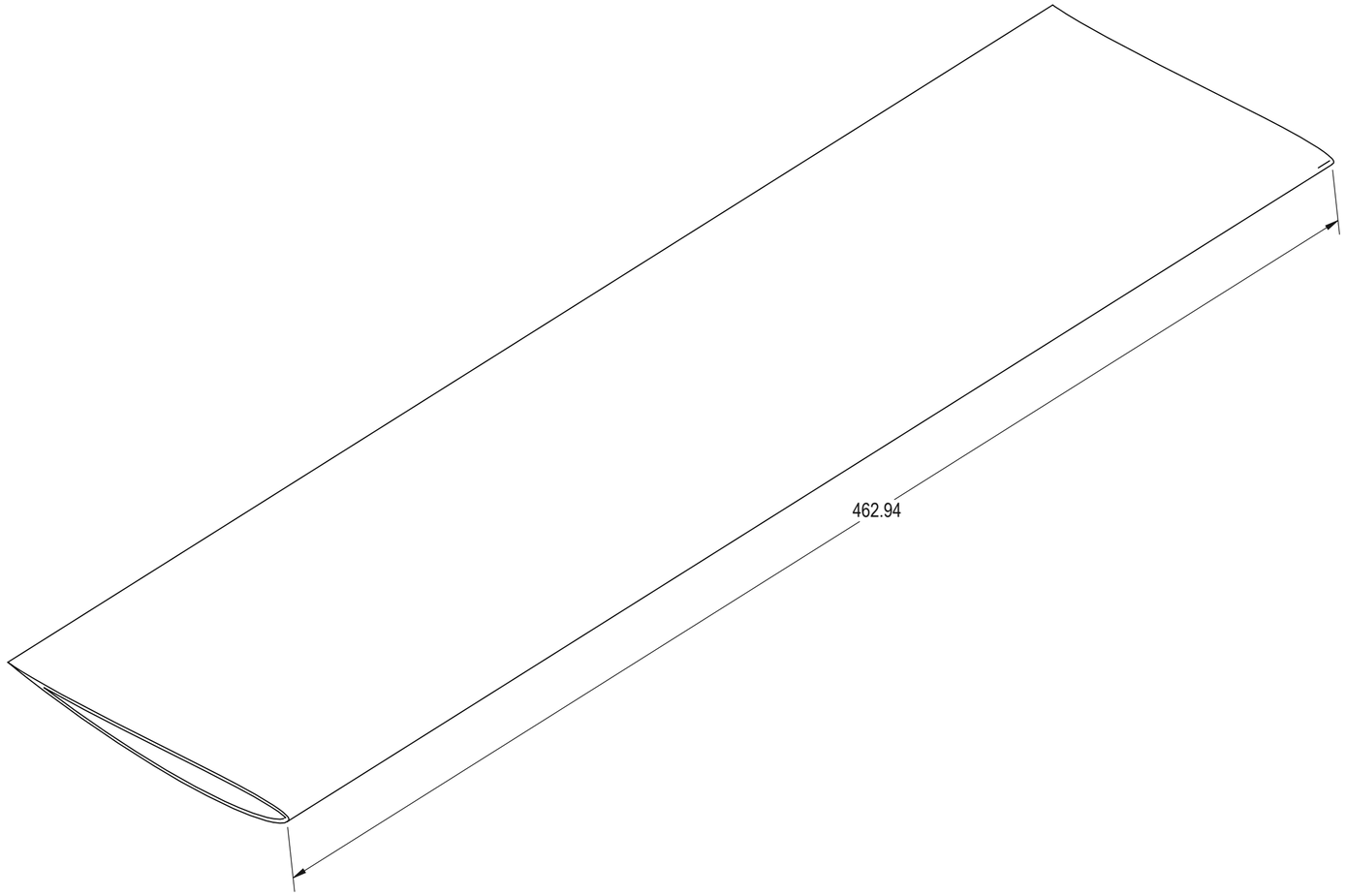
SECTION: Aerodynamics		
L1 ASSEMBLY	L1ASSY REV	
DRAWN BY: CARLOS MEDINA	DATE: 3/10/2026	
SECTION LEAD APPROVAL	DATE	
TEAM LEAD APPROVAL	DATE	

BULLDOG MOTORSPORTS
MISSISSIPPI STATE UNIVERSITY

PART NAME: Primary Element		
SIZE: C	SCALE: 1:10	SHEET: 1 OF 1
PART NUMBER		REV

SOLIDWORKS Educational Product. For Instructional Use Only.

DATE PRINTED: 3/10/2026 FILE LOCATION:



COMMENTS:

E64 Airfoil
Chord length - 150

MATERIAL:

THIS DRAWING OR THE INFORMATION CONTAINED HEREIN MAY NOT BE REPRODUCED WITHOUT PERMISSION FROM BULLDOG MOTORSPORTS ENGINEERING

NOTES: BREAK ALL SHARP EDGES

TOLERANCES UNLESS OTHERWISE NOTED

DECIMAL .X =±.5
.XX =±.25
.XXX =±.125
ANGLES =±.5°

MACHINED SURFACE FINISH 125 RMS MAX

ALL DIMENSIONS ARE MILLIMETERS

SECTION: Aerodynamics

L1 ASSEMBLY | L1ASSY REV

DRAWN BY: CARLOS MEDINA | DATE: 3/10/2026

SECTION LEAD APPROVAL | DATE

TEAM LEAD APPROVAL | DATE

BULLDOG MOTORSPORTS
MISSISSIPPI STATE UNIVERSITY

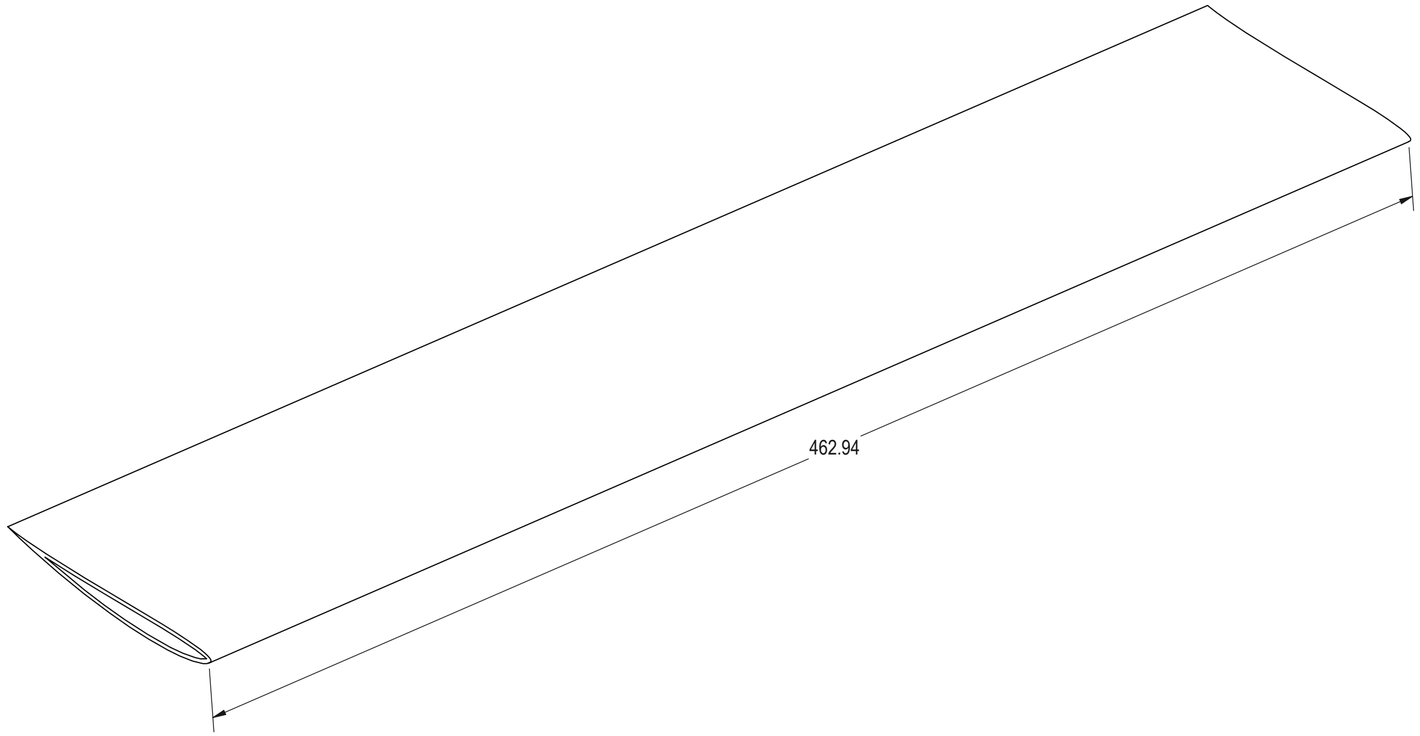
PART NAME: Secondary Element

SIZE: C | SCALE: 1:5 | SHEET: 1 OF 1

PART NUMBER | REV

SOLIDWORKS Educational Product. For Instructional Use Only.

DATE PRINTED: 3/10/2026 FILE LOCATION:



COMMENTS:

E64 Airfoil
Chord length - 100

MATERIAL:

THIS DRAWING OR THE INFORMATION CONTAINED HEREIN MAY NOT BE REPRODUCED WITHOUT PERMISSION FROM BULLDOG MOTORSPORTS ENGINEERING

NOTES: BREAK ALL SHARP EDGES

TOLERANCES UNLESS OTHERWISE NOTED

DECIMAL .X =±.5 .XX =±.25 .XXX =±.125 ANGLES =±.5°

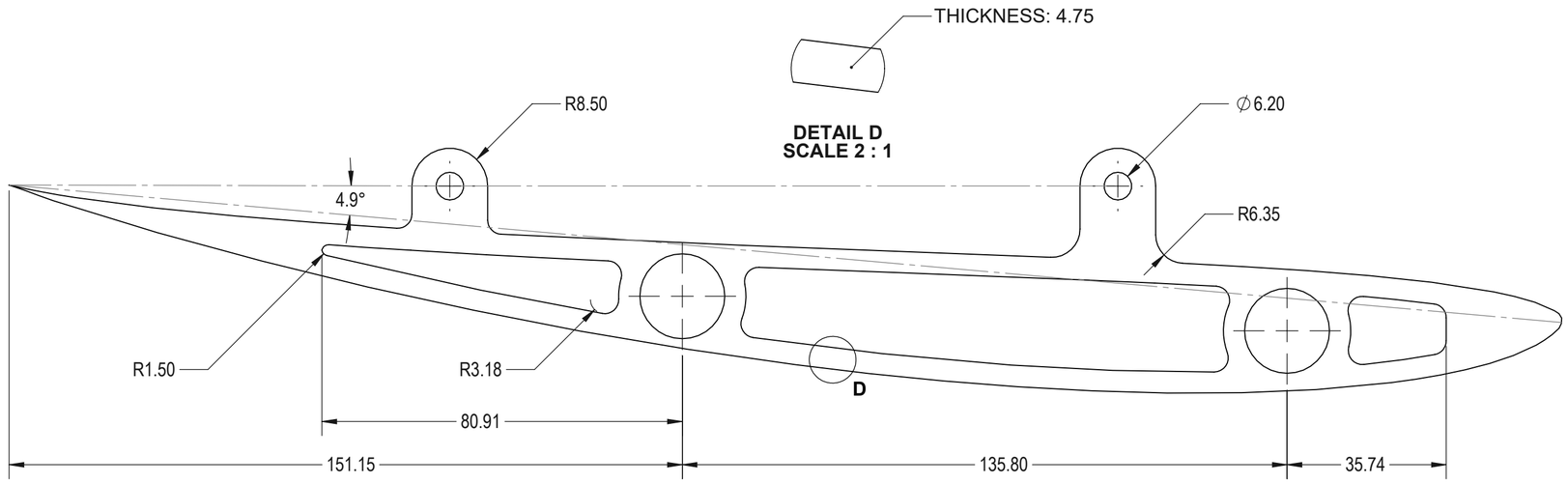
MACHINED SURFACE FINISH 125 RMS MAX

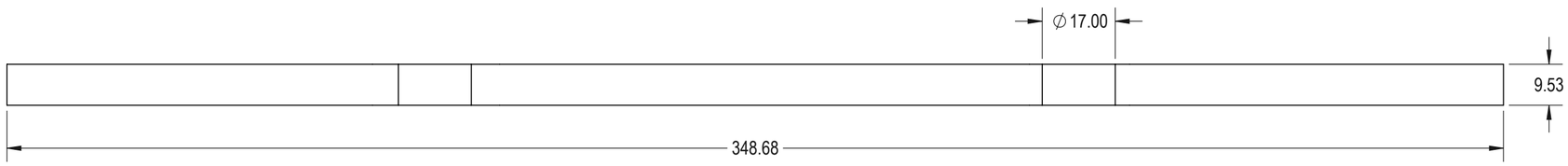
ALL DIMENSIONS ARE MILLIMETERS

SECTION: Aerodynamics		BULLDOG MOTORSPORTS MISSISSIPPI STATE UNIVERSITY
L1 ASSEMBLY	L1ASSY REV	
DRAWN BY: CARLOS MEDINA	DATE: 3/10/2026	PART NAME: Tertiary Element
SECTION LEAD APPROVAL	DATE	SIZE: C / SCALE: 1:5 / SHEET: 1 OF 1
TEAM LEAD APPROVAL	DATE	PART NUMBER / REV

SOLIDWORKS Educational Product. For Instructional Use Only.

DATE PRINTED: 3/10/2026 FILE LOCATION:





COMMENTS:

Chord length - 350
Drawn at an angle for horizontal centerline through mounting tabs

MATERIAL:

THIS DRAWING OR THE INFORMATION CONTAINED HEREIN MAY NOT BE REPRODUCED WITHOUT PERMISSION FROM BULLDOG MOTORSPORTS ENGINEERING

NOTES: BREAK ALL SHARP EDGES

TOLERANCES UNLESS OTHERWISE NOTED

DECIMAL .X =±.5, .XX =±.25, .XXX =±.125, ANGLES =±.5°

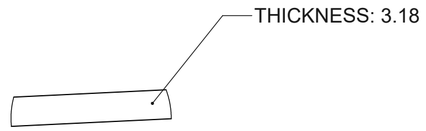
MACHINED SURFACE FINISH 125 RMS MAX

ALL DIMENSIONS ARE MILLIMETERS

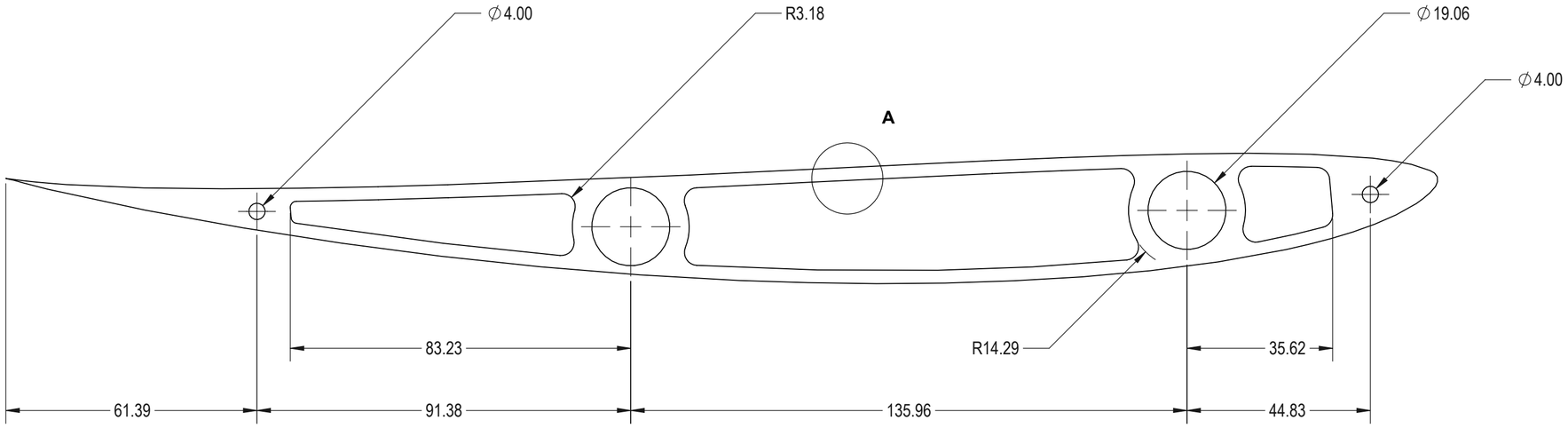
SECTION: Aerodynamics		BULLDOG MOTORSPORTS, MISSISSIPPI STATE UNIVERSITY
L1 ASSEMBLY	L1ASSY REV	
DRAWN BY: CARLOS MEDINA	DATE: 3/9/2026	PART NAME: Primary Element Mounting Rib
SECTION LEAD APPROVAL	DATE	SIZE: C / SCALE: 1:2 / SHEET: 1 OF 1
TEAM LEAD APPROVAL	DATE	PART NUMBER / REV

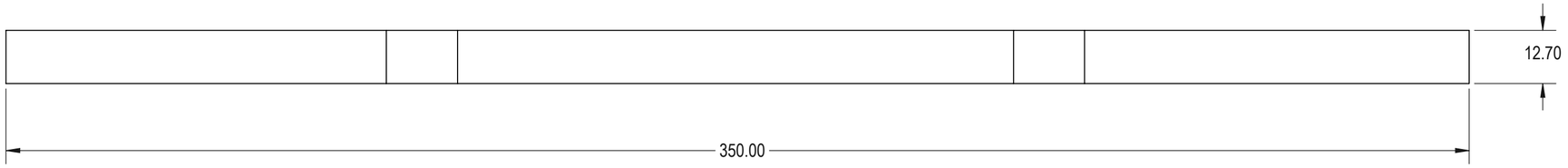
SOLIDWORKS Educational Product. For Instructional Use Only.

DATE PRINTED: 3/10/2026 FILE LOCATION:



DETAIL A
SCALE 2 : 1





COMMENTS:
Chord line is parallel to the horizontal

MATERIAL:

THIS DRAWING OR THE INFORMATION CONTAINED HEREIN MAY NOT BE REPRODUCED WITHOUT PERMISSION FROM BULLDOG MOTORSPORTS ENGINEERING

NOTES: BREAK ALL SHARP EDGES

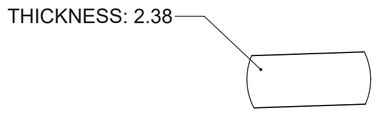
TOLERANCES UNLESS OTHERWISE NOTED
DECIMAL .X =±.5, .XX =±.25, .XXX =±.125, ANGLES =±.5°
MACHINED SURFACE FINISH 125 RMS MAX

ALL DIMENSIONS ARE MILLIMETERS

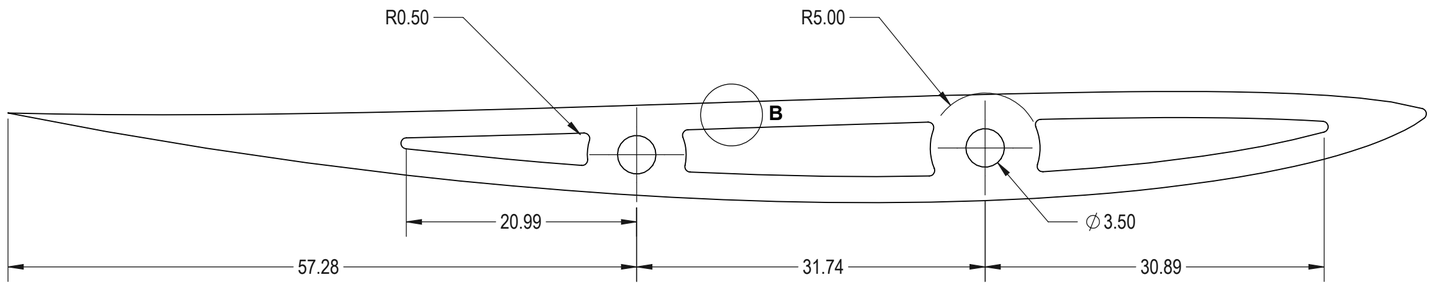
SECTION: Aerodynamics		
L1 ASSEMBLY	L1ASSY REV	BULLDOG MOTORSPORTS, MISSISSIPPI STATE UNIVERSITY
DRAWN BY: CARLOS MEDINA	DATE: 2/28/2026	PART NAME: Primary Element Rib
SECTION LEAD APPROVAL	DATE	SIZE: C / SCALE: 1:2 / SHEET: 1 OF 1
TEAM LEAD APPROVAL	DATE	PART NUMBER / REV

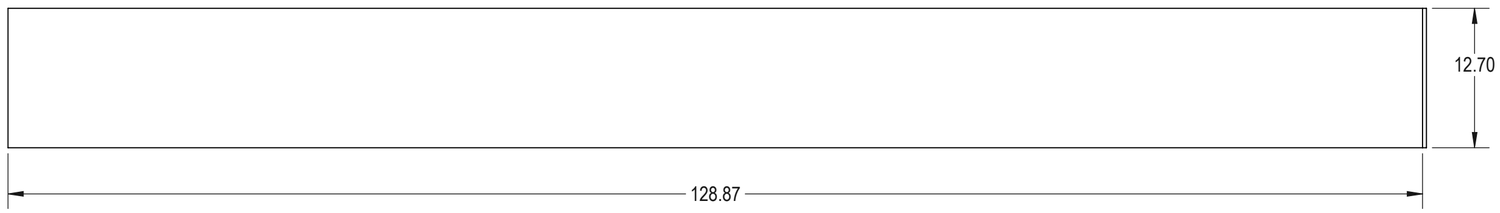
SOLIDWORKS Educational Product. For Instructional Use Only.

DATE PRINTED: 3/9/2026 FILE LOCATION:



DETAIL B
SCALE 2 : 0.42





COMMENTS:

Chord line is parallel to the horizontal

MATERIAL:

THIS DRAWING OR THE INFORMATION CONTAINED HEREIN MAY NOT BE REPRODUCED WITHOUT PERMISSION FROM BULLDOG MOTORSPORTS ENGINEERING

NOTES: BREAK ALL SHARP EDGES

TOLERANCES UNLESS OTHERWISE NOTED

DECIMAL .X =±.5 .XX =±.25 .XXX =±.125 ANGLES =±.5°

MACHINED SURFACE FINISH 125 RMS MAX

ALL DIMENSIONS ARE MILLIMETERS

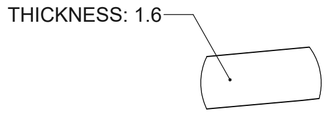
SECTION: Aerodynamics	
L1 ASSEMBLY	L1ASSY REV
DRAWN BY: CARLOS MEDINA	DATE: 3/7/2026
SECTION LEAD APPROVAL	DATE
TEAM LEAD APPROVAL	DATE

BULLDOG MOTORSPORTS
MISSISSIPPI STATE UNIVERSITY

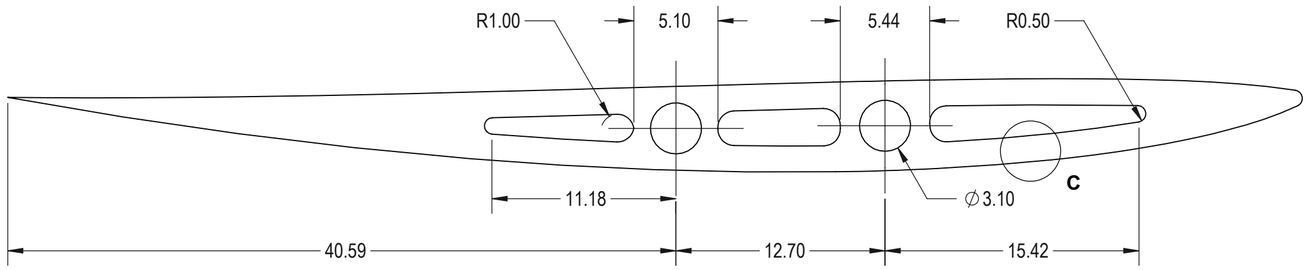
PART NAME: Secondary Element Rib		
SIZE: C	SCALE: 1:1	SHEET: 1 OF 1
PART NUMBER		REV

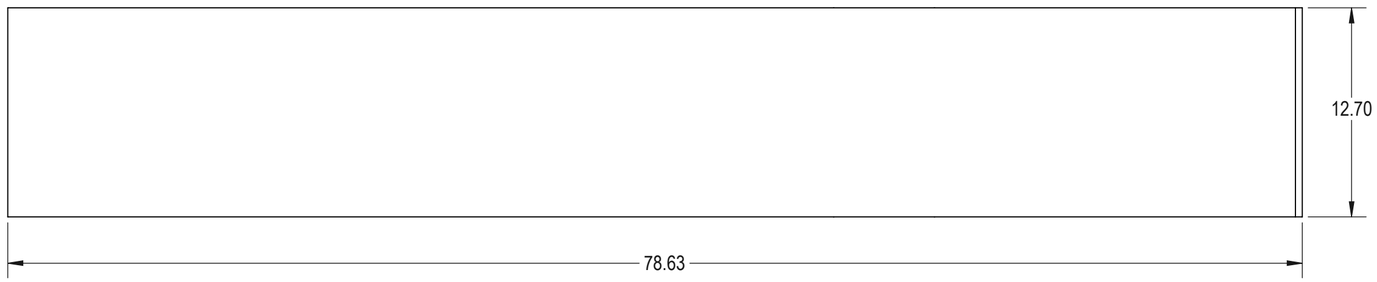
SOLIDWORKS Educational Product. For Instructional Use Only.

DATE PRINTED: 3/9/2026 FILE LOCATION:



DETAIL C
SCALE 2 : 0.28





COMMENTS:

Chord line parallel to the horizontal

MATERIAL:

THIS DRAWING OR THE INFORMATION CONTAINED HEREIN MAY NOT BE REPRODUCED WITHOUT PERMISSION FROM BULLDOG MOTORSPORTS ENGINEERING

NOTES: BREAK ALL SHARP EDGES

TOLERANCES UNLESS OTHERWISE NOTED

DECIMAL .X =±.5 .XX =±.25 .XXX =±.125 ANGLES =±.5°

MACHINED SURFACE FINISH 125 RMS MAX

ALL DIMENSIONS ARE MILLIMETERS

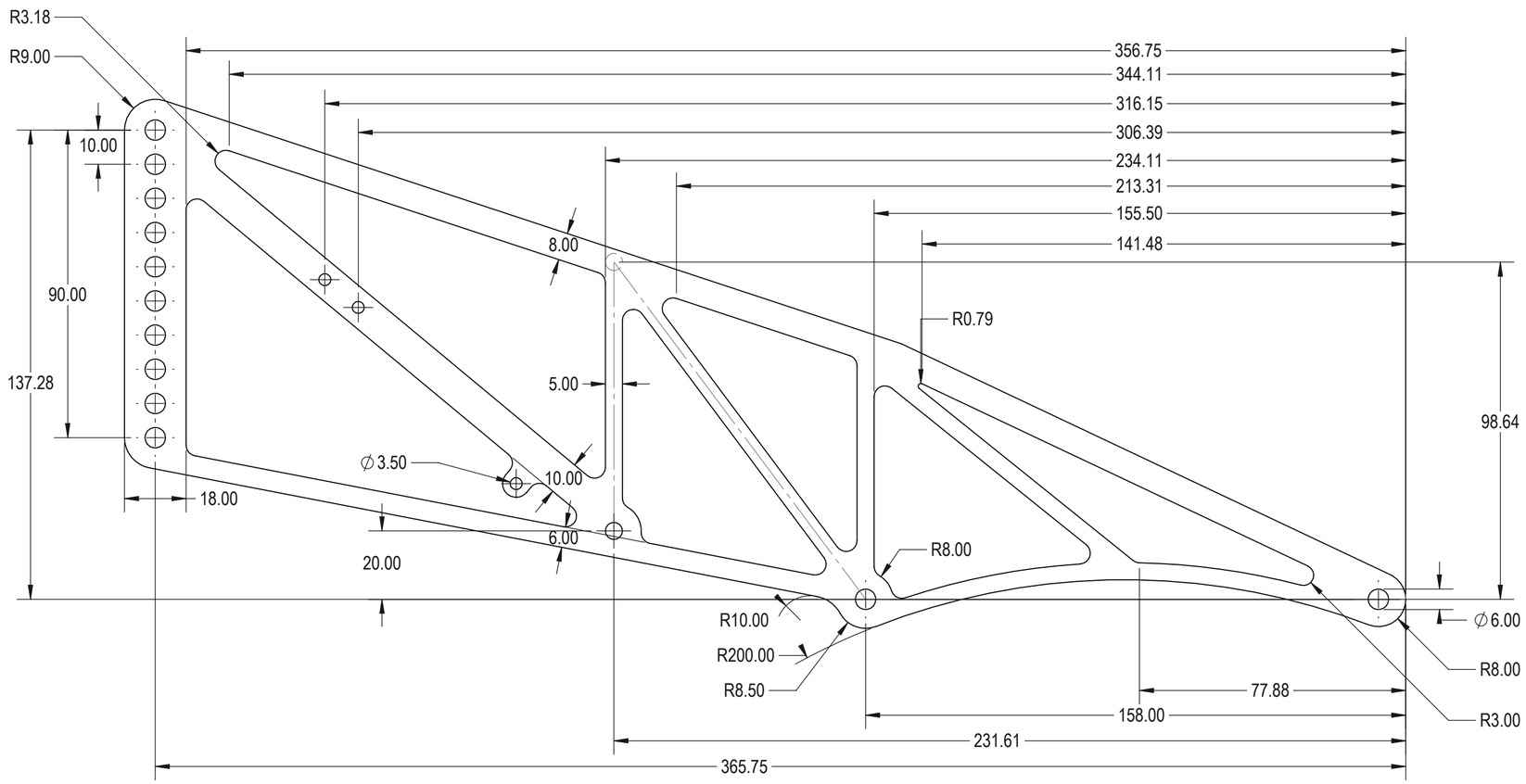
SECTION: Aerodynamics	
L1 ASSEMBLY	L1ASSY REV
DRAWN BY: CARLOS MEDINA	DATE: 3/7/2026
SECTION LEAD APPROVAL	DATE
TEAM LEAD APPROVAL	DATE

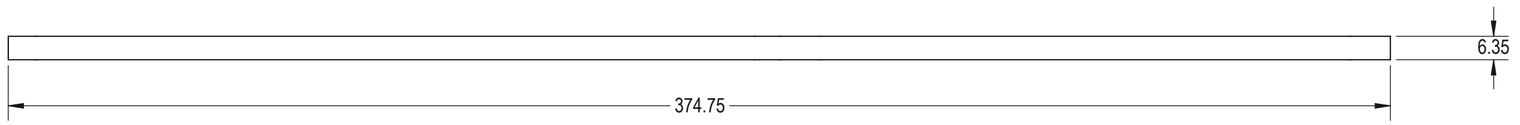
BULLDOG MOTORSPORTS
MISSISSIPPI STATE UNIVERSITY

PART NAME: Tertiary Element Rib		
SIZE: C	SCALE: 2:1	SHEET: 1 OF 1
PART NUMBER		REV

SOLIDWORKS Educational Product. For Instructional Use Only.

DATE PRINTED: 3/9/2026 FILE LOCATION:





COMMENTS:

Piece was water jet

MATERIAL:

THIS DRAWING OR THE INFORMATION CONTAINED HEREIN MAY NOT BE REPRODUCED WITHOUT PERMISSION FROM BULLDOG MOTORSPORTS ENGINEERING

NOTES: BREAK ALL SHARP EDGES

TOLERANCES UNLESS OTHERWISE NOTED

DECIMAL .X =±.5, .XX =±.25, .XXX =±.125, ANGLES =±.5°

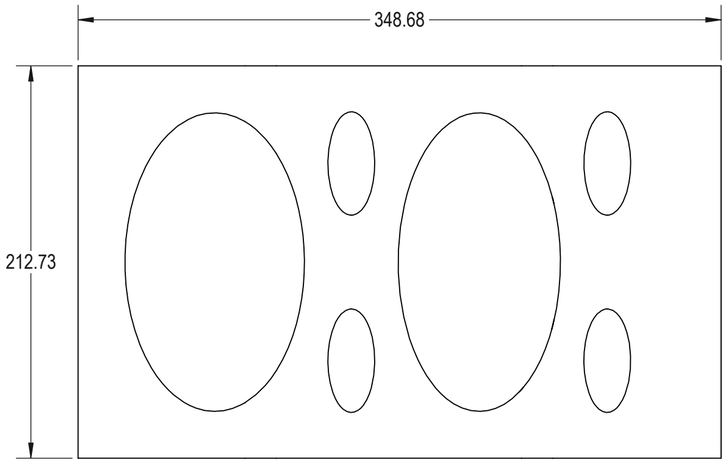
MACHINED SURFACE FINISH 125 RMS MAX

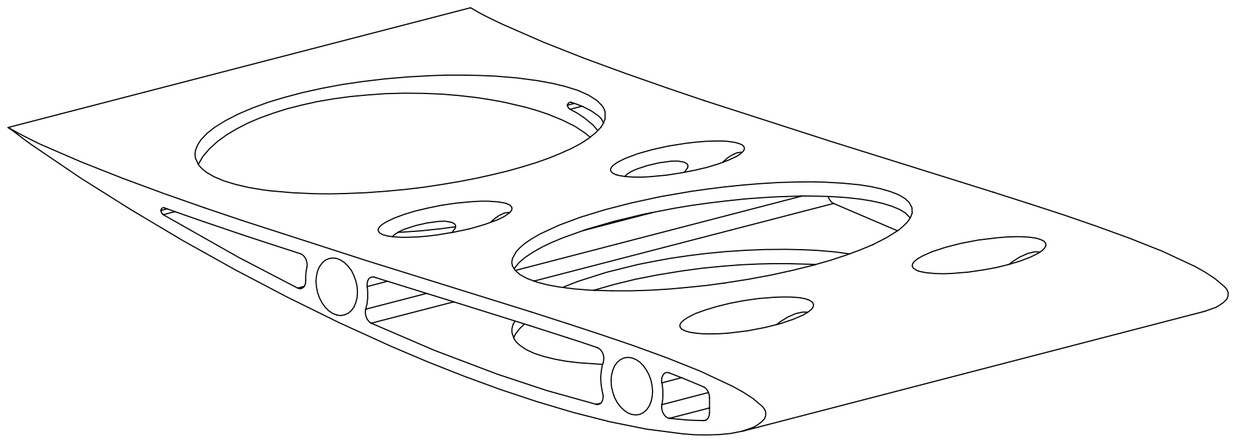
ALL DIMENSIONS ARE MILLIMETERS

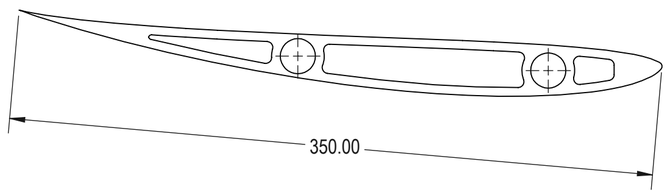
SECTION: Aerodynamics		BULLDOG MOTORSPORTS, MISSISSIPPI STATE UNIVERSITY
L1 ASSEMBLY	L1ASSY REV	
DRAWN BY: CARLOS MEDINA	DATE: 3/10/2026	PART NAME: Mounting Bracket
SECTION LEAD APPROVAL	DATE	SIZE: C / SCALE: 1:2 / SHEET: 1 OF 1
TEAM LEAD APPROVAL	DATE	PART NUMBER / REV

SOLIDWORKS Educational Product. For Instructional Use Only.

DATE PRINTED: 3/10/2026 FILE LOCATION:







COMMENTS:
Chord length - 350
Piece is drawn at an angle to demonstrate cut extrusion

MATERIAL:

THIS DRAWING OR THE INFORMATION CONTAINED HEREIN MAY NOT BE REPRODUCED WITHOUT PERMISSION FROM BULLDOG MOTORSPORTS ENGINEERING

NOTES: BREAK ALL SHARP EDGES

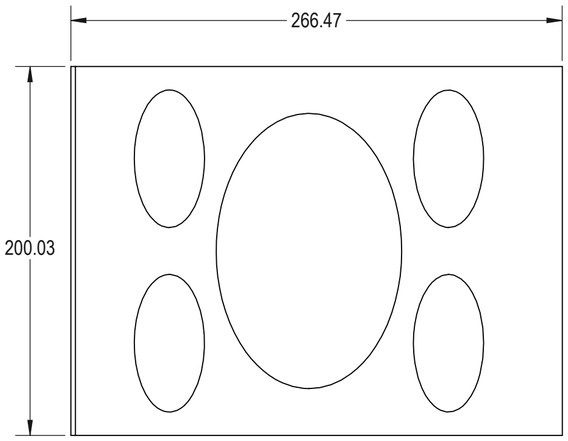
TOLERANCES UNLESS OTHERWISE NOTED
DECIMAL .X =±.5 .XX =±.25 .XXX =±.125 ANGLES =±.5°
MACHINED SURFACE FINISH 125 RMS MAX

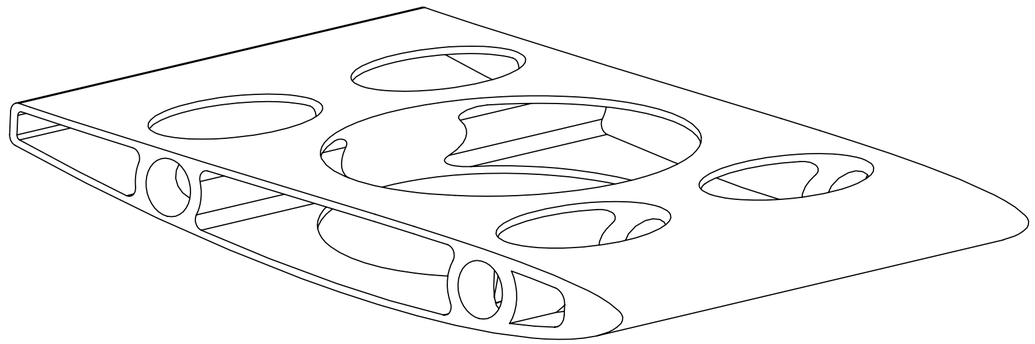
ALL DIMENSIONS ARE MILLIMETERS

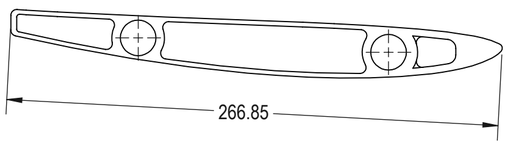
SECTION: Aerodynamics		BULLDOG MOTORSPORTS, MISSISSIPPI STATE UNIVERSITY
L1 ASSEMBLY	L1ASSY REV	
DRAWN BY: CARLOS MEDINA	DATE: 3/9/2026	PART NAME: Primary Element 3D Print Insert
SECTION LEAD APPROVAL	DATE	SIZE: C / SCALE: 1:2 / SHEET: 1 OF 1
TEAM LEAD APPROVAL	DATE	PART NUMBER / REV

SOLIDWORKS Educational Product. For Instructional Use Only.

DATE PRINTED: 3/10/2026 FILE LOCATION:







COMMENTS:

Same Primary Element 3D Print Insert dimensions with trimmed Trailing Edge

MATERIAL:

THIS DRAWING OR THE INFORMATION CONTAINED HEREIN MAY NOT BE REPRODUCED WITHOUT PERMISSION FROM BULLDOG MOTORSPORTS ENGINEERING

NOTES: BREAK ALL SHARP EDGES

TOLERANCES UNLESS OTHERWISE NOTED

DECIMAL .X =±.5 .XX =±.25 .XXX =±.125 ANGLES =±.5°

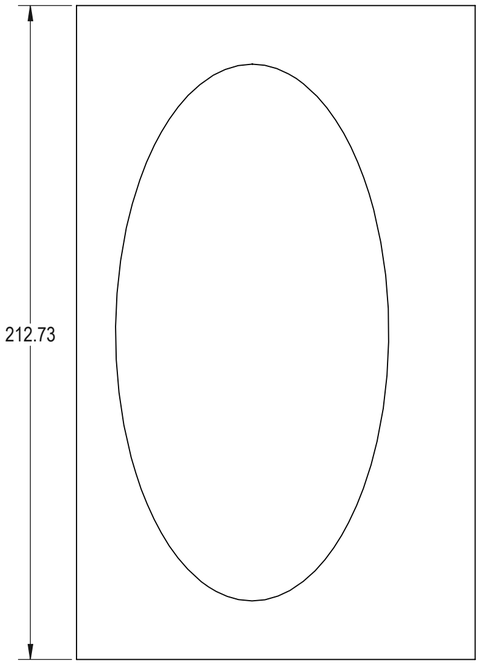
MACHINED SURFACE FINISH 125 RMS MAX

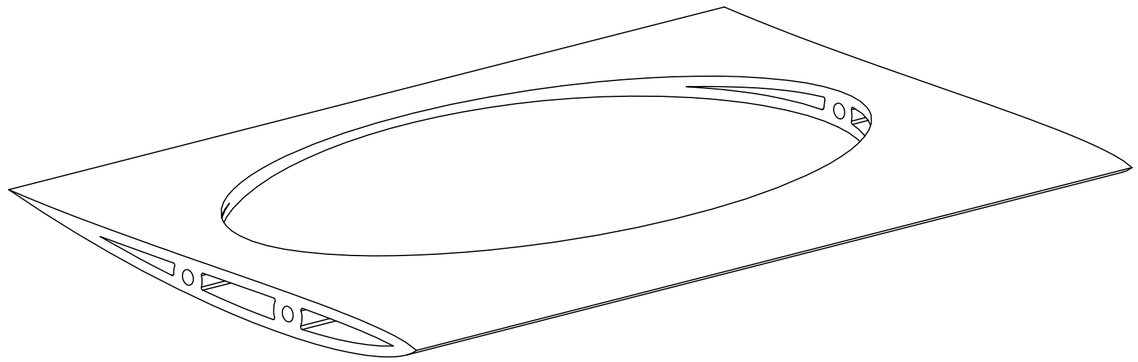
ALL DIMENSIONS ARE MILLIMETERS

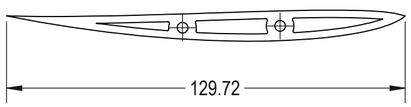
SECTION: Aerodynamics		BULLDOG MOTORSPORTS — MISSISSIPPI STATE UNIVERSITY
L1 ASSEMBLY	L1ASSY REV	
DRAWN BY: CARLOS MEDINA	DATE: 3/10/2026	PART NAME: Middle 3D Print Insert
SECTION LEAD APPROVAL	DATE	SIZE: C / SCALE: 1:2 / SHEET: 1 OF 1
TEAM LEAD APPROVAL	DATE	PART NUMBER / REV

SOLIDWORKS Educational Product. For Instructional Use Only.

DATE PRINTED: 3/10/2026 FILE LOCATION:







COMMENTS:

Chord length - 129.72
Piece is drawn with chord line parallel to horizontal to demonstrate cut extrusion

MATERIAL:

THIS DRAWING OR THE INFORMATION CONTAINED HEREIN MAY NOT BE REPRODUCED WITHOUT PERMISSION FROM BULLDOG MOTORSPORTS ENGINEERING

NOTES: BREAK ALL SHARP EDGES

TOLERANCES UNLESS OTHERWISE NOTED

DECIMAL .X =±.5 .XX =±.25 .XXX =±.125 ANGLES =±.5°

MACHINED SURFACE FINISH 125 RMS MAX

ALL DIMENSIONS ARE MILLIMETERS

SECTION: Aerodynamics

L1 ASSEMBLY | L1ASSY REV

DRAWN BY: CARLOS MEDINA | DATE: 3/9/2026

SECTION LEAD APPROVAL | DATE

TEAM LEAD APPROVAL | DATE

BULLDOG MOTORSPORTS
MISSISSIPPI STATE UNIVERSITY

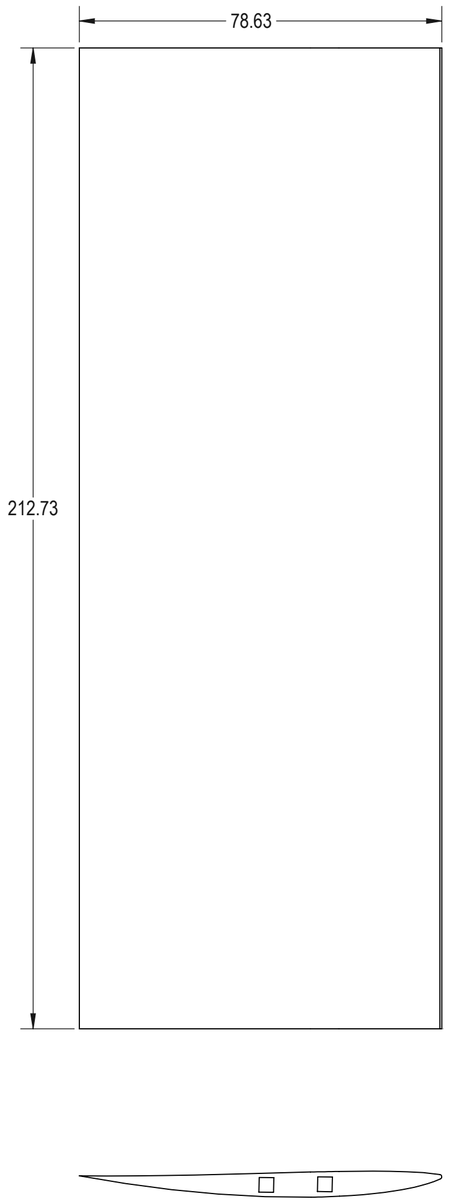
PART NAME: Secondary Element 3D Print Insert

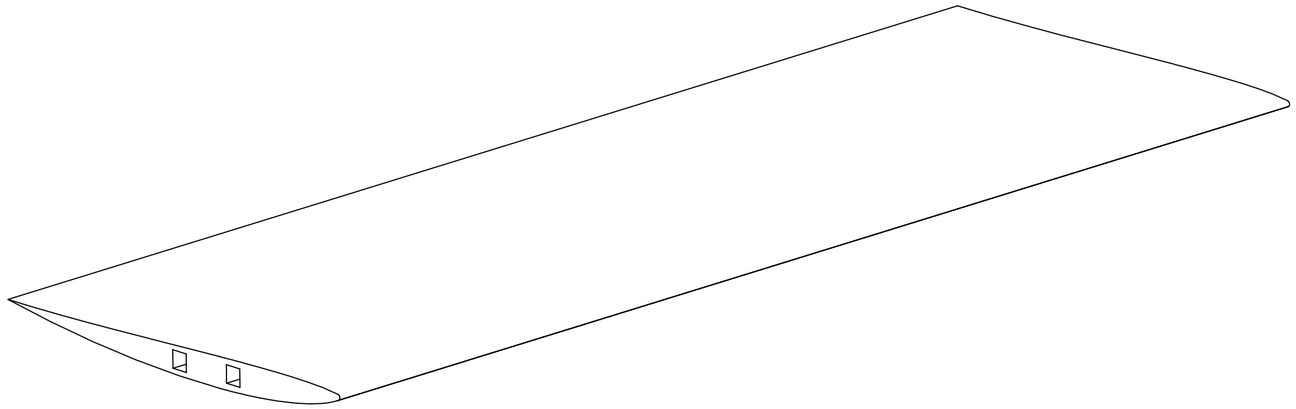
SIZE: C | SCALE: 1:2 | SHEET: 1 OF 1

PART NUMBER | REV

SOLIDWORKS Educational Product. For Instructional Use Only.

DATE PRINTED: 3/10/2026 FILE LOCATION:





COMMENTS:

Chord length - 7864

MATERIAL:

THIS DRAWING OR THE INFORMATION CONTAINED HEREIN MAY NOT BE REPRODUCED WITHOUT PERMISSION FROM BULLDOG MOTORSPORTS ENGINEERING

NOTES: BREAK ALL SHARP EDGES

TOLERANCES UNLESS OTHERWISE NOTED

DECIMAL .X =±.5 .XX =±.25 .XXX =±.125 ANGLES =±.5°

MACHINED SURFACE FINISH 125 RMS MAX

ALL DIMENSIONS ARE MILLIMETERS

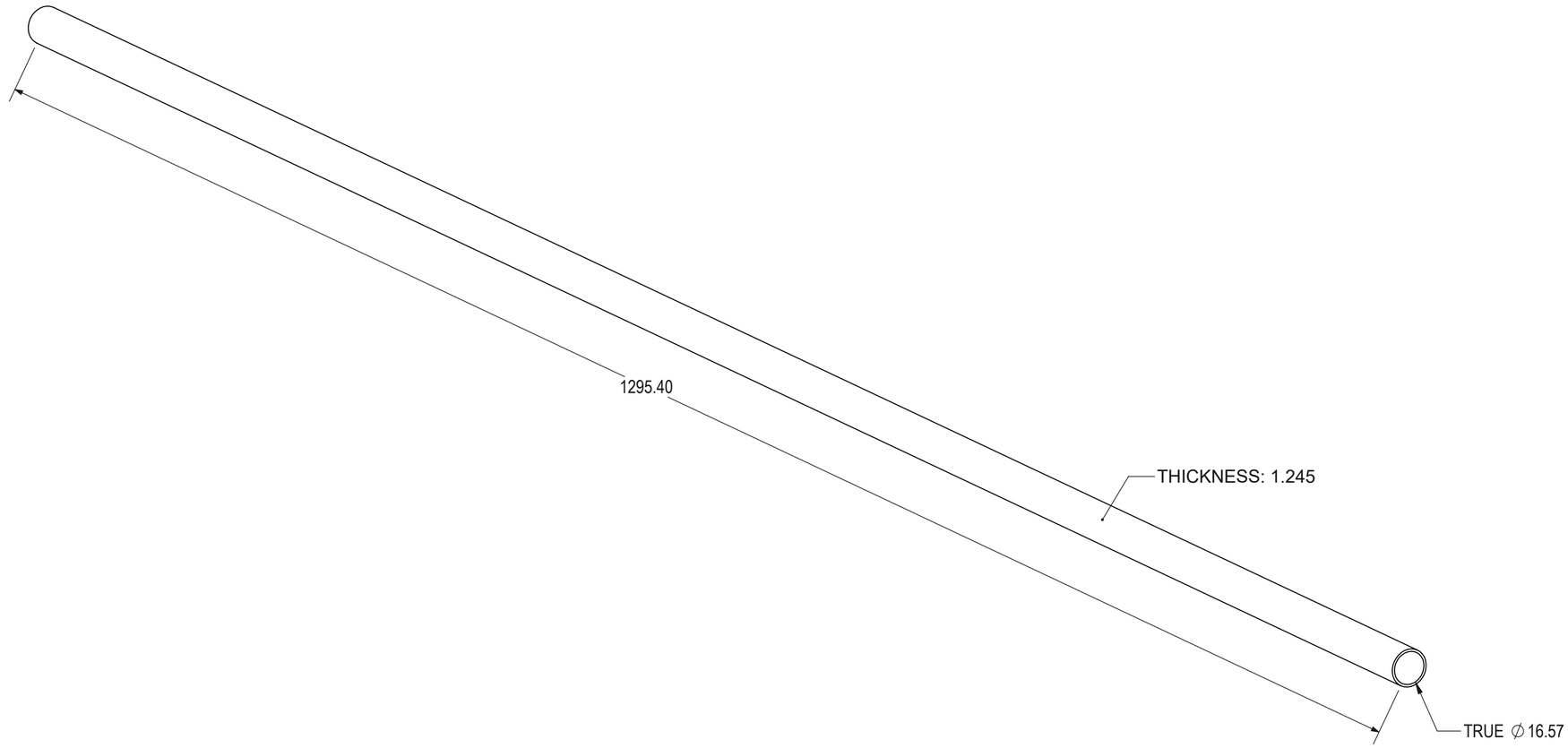
SECTION: Aerodynamics	
L1 ASSEMBLY	L1ASSY REV
DRAWN BY: CARLOS MEDINA	DATE: 3/9/2026
SECTION LEAD APPROVAL	DATE
TEAM LEAD APPROVAL	DATE

BULLDOG MOTORSPORTS
MISSISSIPPI STATE UNIVERSITY

PART NAME: Tertiary Element 3D Print Insert		
SIZE: C	SCALE: 1:2	SHEET: 1 OF 1
PART NUMBER		REV

SOLIDWORKS Educational Product. For Instructional Use Only.

DATE PRINTED: 3/10/2026 FILE LOCATION:



COMMENTS:	THIS DRAWING OR THE INFORMATION CONTAINED HEREIN MAY NOT BE REPRODUCED WITHOUT PERMISSION FROM BULLDOG MOTORSPORTS ENGINEERING	SECTION: Aerodynamics	BULLDOG MOTORSPORTS — MISSISSIPPI STATE UNIVERSITY
	NOTES: BREAK ALL SHARP EDGES	L1 ASSEMBLY	L1ASSY REV
MATERIAL:	TOLERANCES UNLESS OTHERWISE NOTED DECIMAL .X =±.5, .XX =±.25, .XXX =±.125, ANGLES =±.5° MACHINED SURFACE FINISH 125 RMS MAX ALL DIMENSIONS ARE MILLIMETERS	DRAWN BY: CARLOS MEDINA	DATE: 3/9/2026
		SECTION LEAD APPROVAL	DATE
		TEAM LEAD APPROVAL	DATE
		PART NAME: Aluminum Spar	
		SIZE: C	SCALE: 1:10
		PART NUMBER	SHEET: 1 OF 1
			REV

SOLIDWORKS Educational Product. For Instructional Use Only.

DATE PRINTED: 3/9/2026 FILE LOCATION: