

Brenden Deustchman

Edgar Tejada

Jerald Vanblaricom

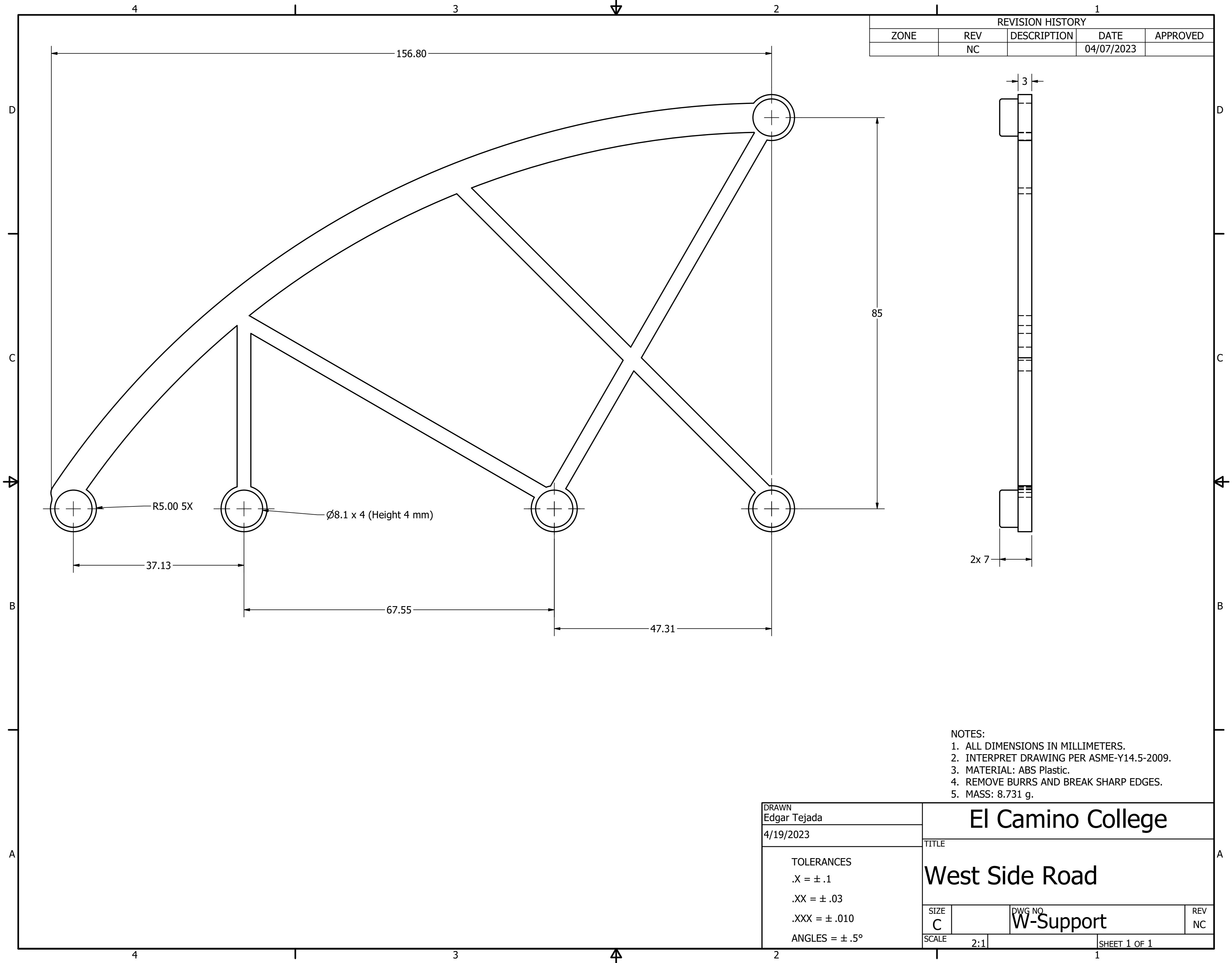
CADD-43

Bridge Project Write Up

1. Weight Supported
 - a. **13 lbs at its Peak**
2. Structural Efficiency:
 - a. Mass of bridge: 104 grams

Arch West Side (Left) [g]	Arch East Side (Left) [g]	Arch West Side (Left) [g]	Arch East Side (Left) [g]	Railroad West [g]	Railroad East [g]
10.3	9.8	10.3	9.8	32	32
Total Mass (g)					
104.2					

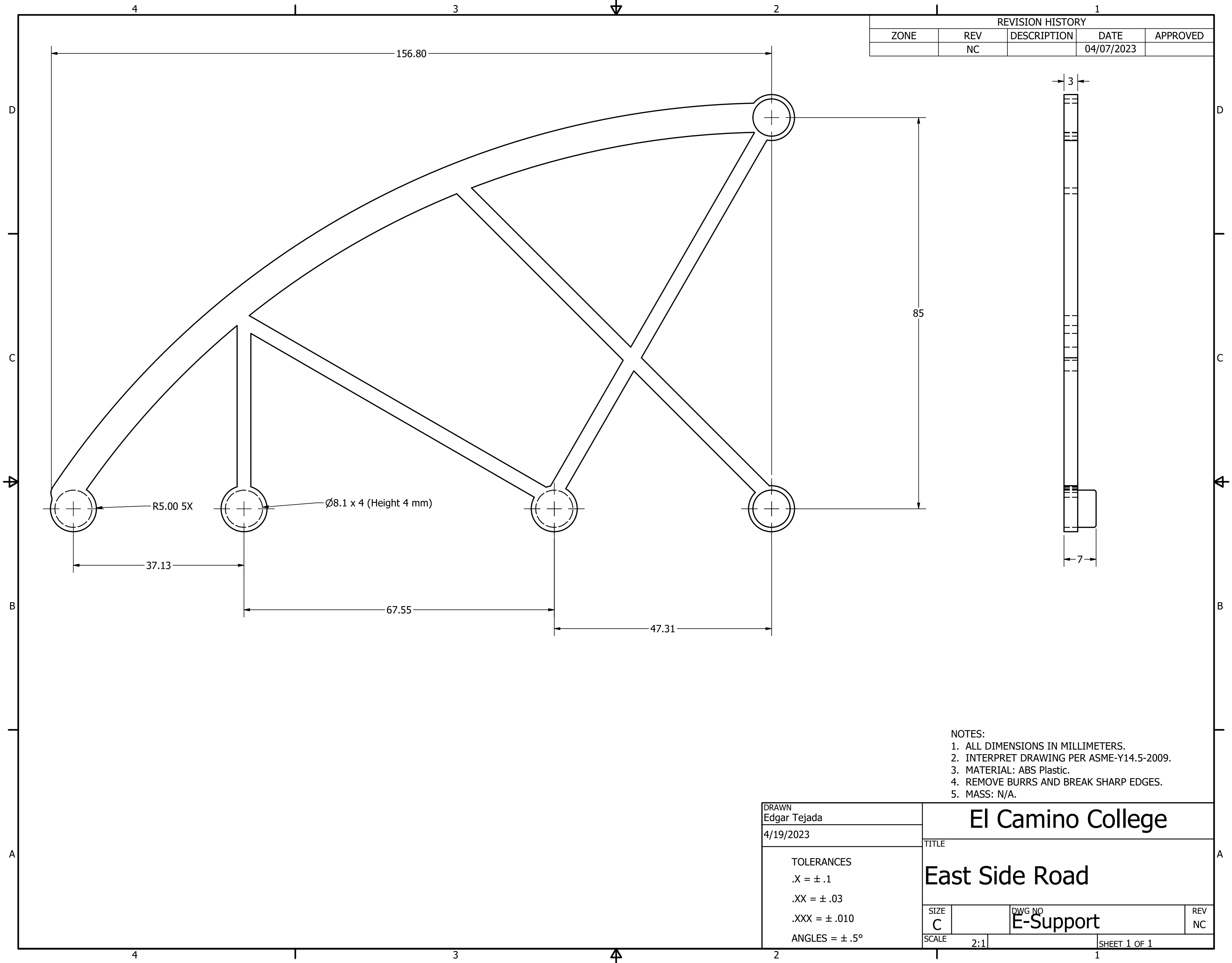
- b. Mass supported in grams: 5896.7 grams
 - c. $SE = \text{Mass Supported} / \text{Mass of Bridge} = \mathbf{56.7}$
3. Drawings:



REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	NC		04/07/2023	

- NOTES:
1. ALL DIMENSIONS IN MILLIMETERS.
 2. INTERPRET DRAWING PER ASME-Y14.5-2009.
 3. MATERIAL: ABS Plastic.
 4. REMOVE BURRS AND BREAK SHARP EDGES.
 5. MASS: 8.731 g.

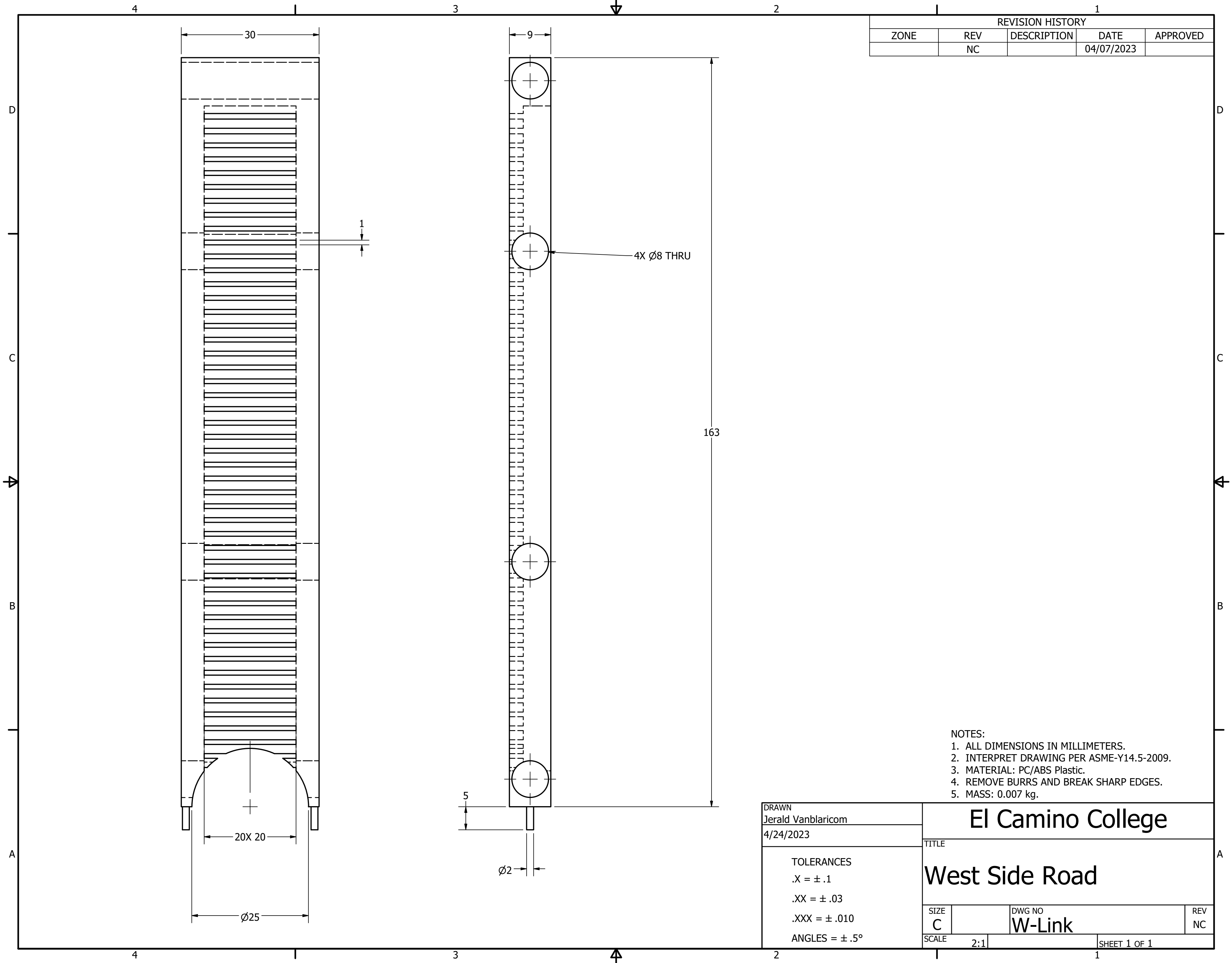
DRAWN Edgar Tejada		El Camino College			
4/19/2023					
TOLERANCES .X = ± .1 .XX = ± .03 .XXX = ± .010 ANGLES = ± .5°		TITLE West Side Road			
		SIZE C	DWG NO. W-Support		REV NC
		SCALE 2:1			SHEET 1 OF 1



REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	NC		04/07/2023	

- NOTES:
- 1. ALL DIMENSIONS IN MILLIMETERS.
 - 2. INTERPRET DRAWING PER ASME-Y14.5-2009.
 - 3. MATERIAL: ABS Plastic.
 - 4. REMOVE BURRS AND BREAK SHARP EDGES.
 - 5. MASS: N/A.

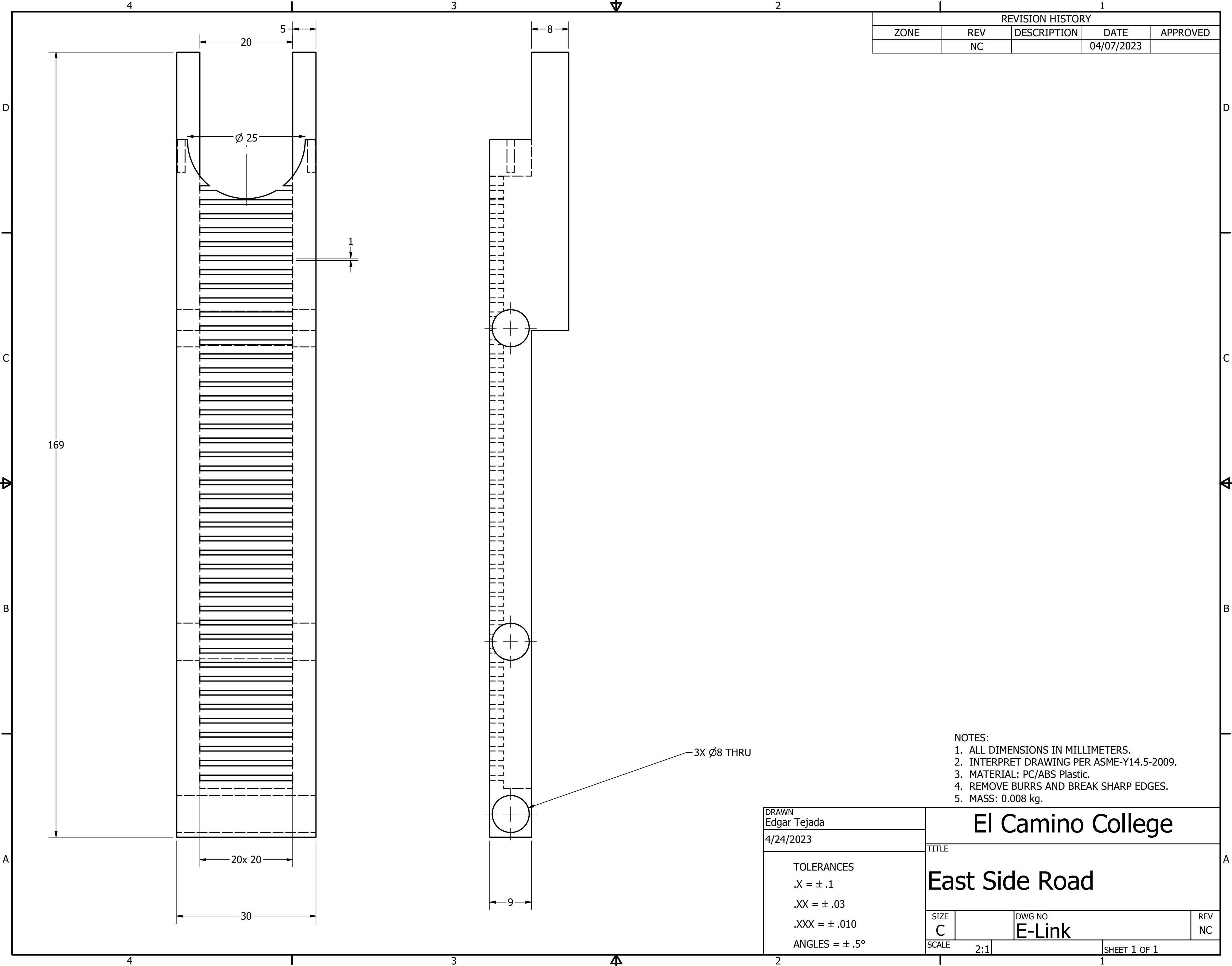
DRAWN Edgar Tejada		El Camino College			
4/19/2023					
TOLERANCES .X = ± .1 .XX = ± .03 .XXX = ± .010 ANGLES = ± .5°		TITLE East Side Road			
		SIZE C	DWG NO E-Support		REV NC
		SCALE 2:1			SHEET 1 OF 1

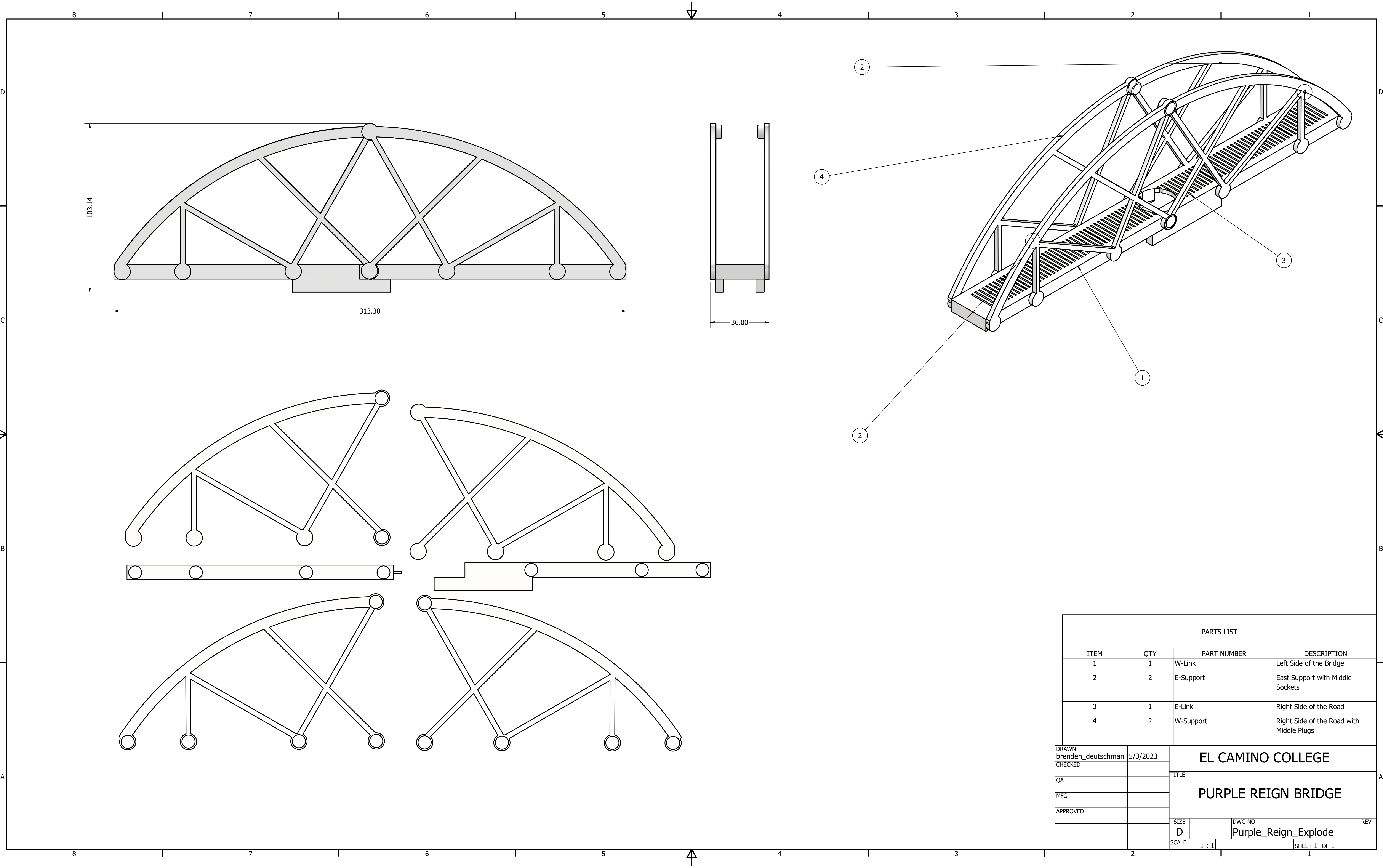


REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	NC		04/07/2023	

- NOTES:
1. ALL DIMENSIONS IN MILLIMETERS.
 2. INTERPRET DRAWING PER ASME-Y14.5-2009.
 3. MATERIAL: PC/ABS Plastic.
 4. REMOVE BURRS AND BREAK SHARP EDGES.
 5. MASS: 0.007 kg.

DRAWN Jerald Vanblaricom 4/24/2023		El Camino College		
TOLERANCES .X = ± .1 .XX = ± .03 .XXX = ± .010 ANGLES = ± .5°		TITLE West Side Road		
		SIZE C	DWG NO W-Link	REV NC
		SCALE 2:1	SHEET 1 OF 1	





PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	W-Link	Left Side of the Bridge
2	2	E-Support	East Support with Middle Sockets
3	1	E-Link	Right Side of the Road
4	2	W-Support	Right Side of the Road with Middle Plugs

DRAWN brenden_deutschman	5/3/2023	EL CAMINO COLLEGE	
CHECKED		TITLE	
QA		PURPLE REIGN BRIDGE	
MFG			
APPROVED			
		SIZE D	DWG NO Purple_Reign_Explode
		SCALE 1 : 1	REV SHEET 1 OF 1