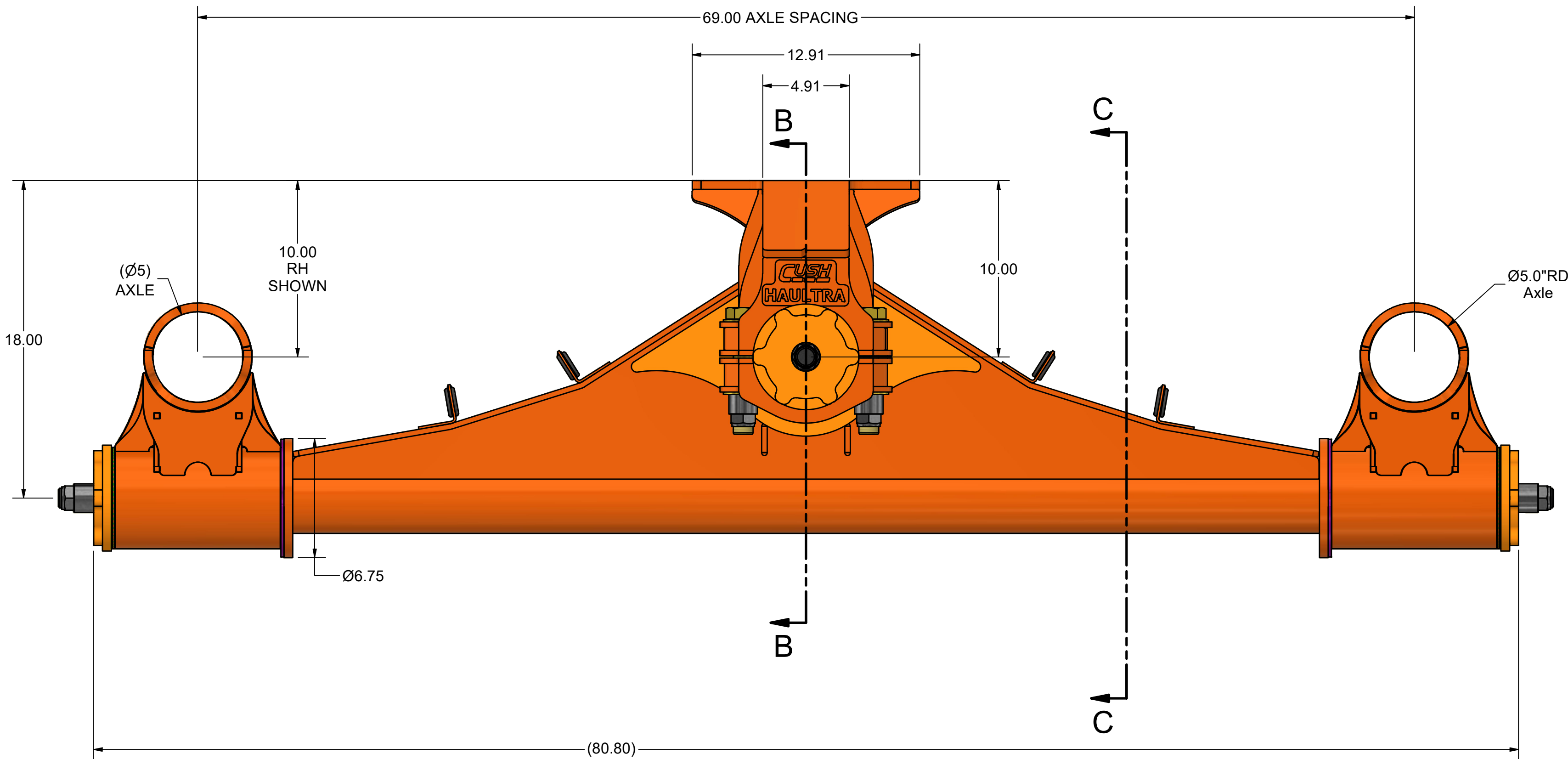
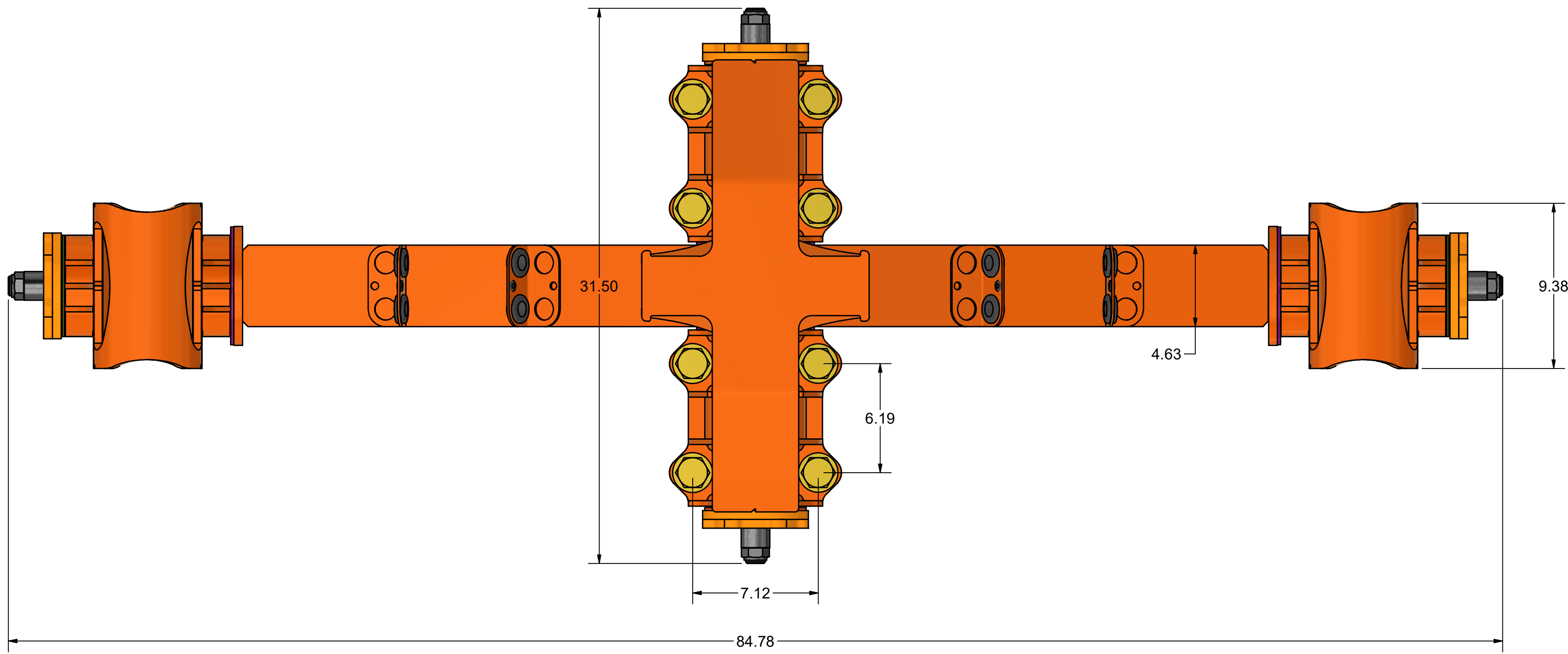
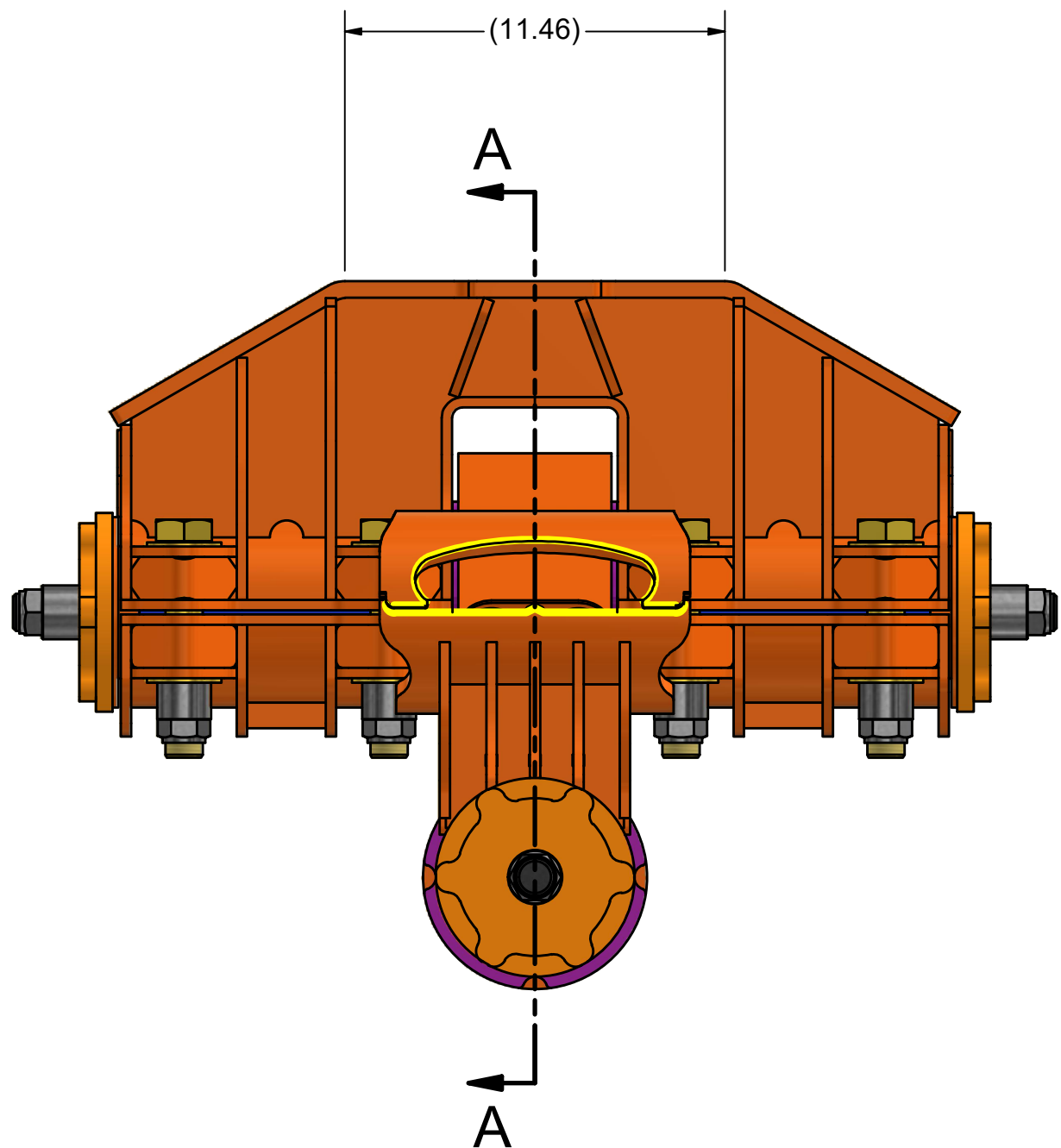
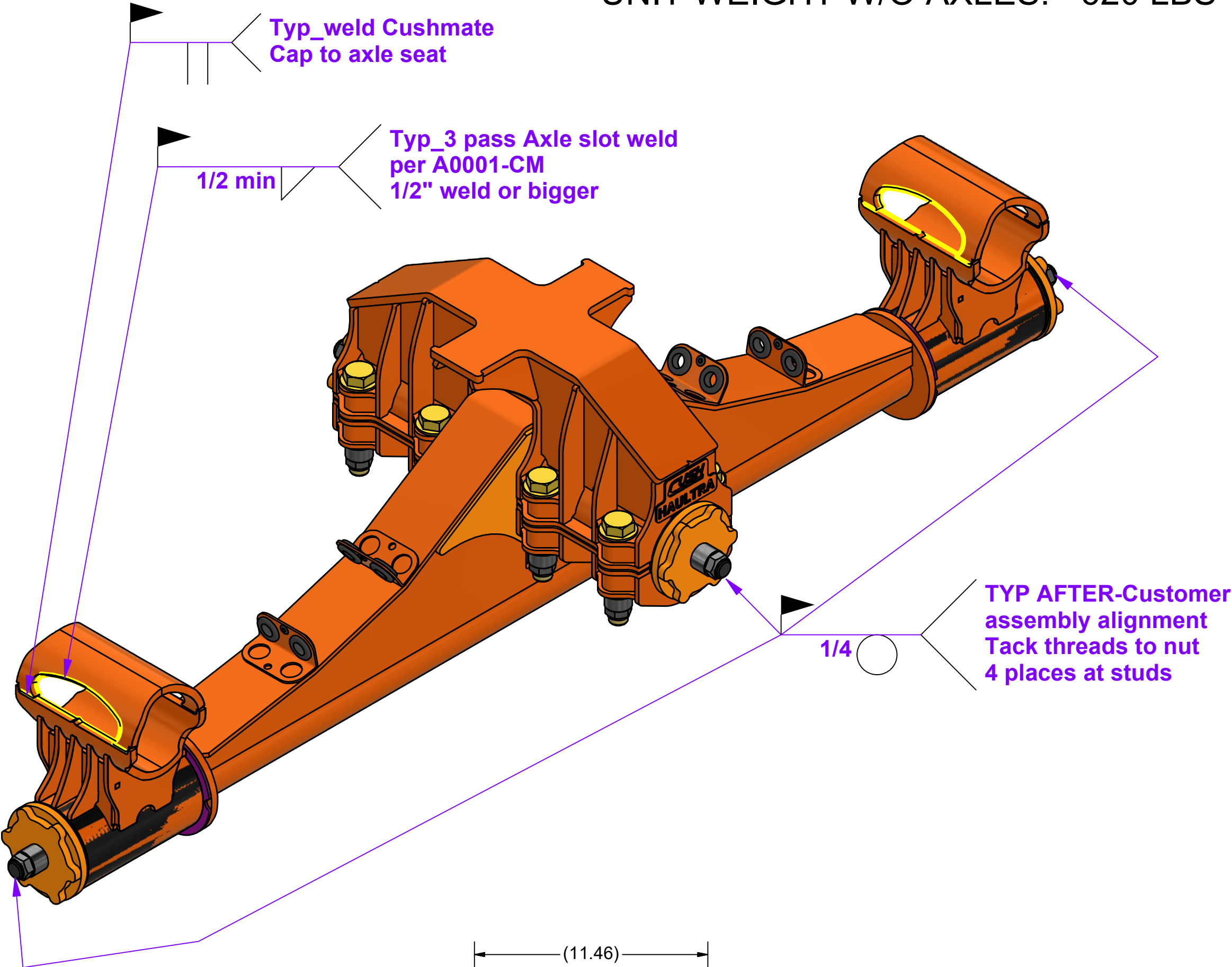
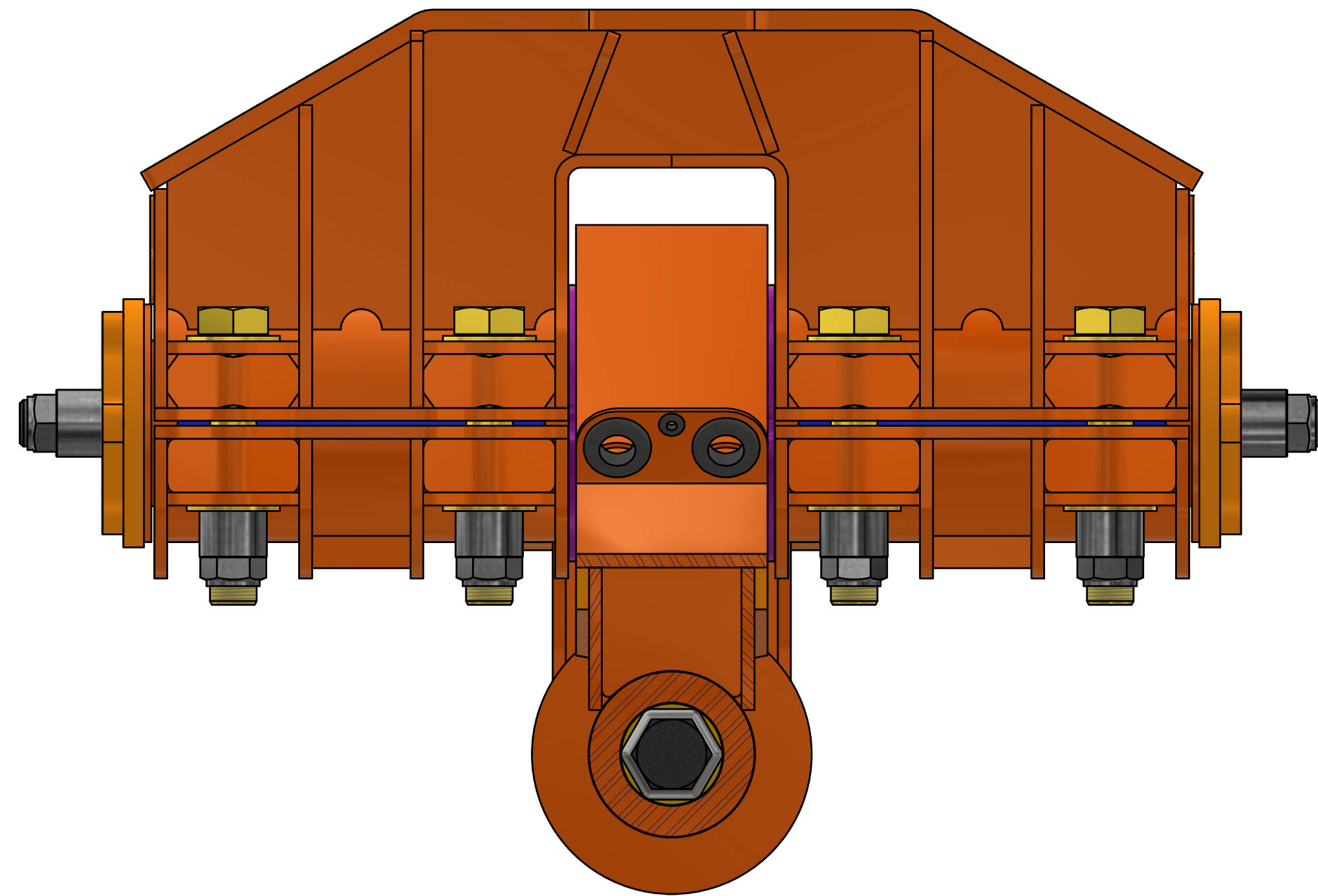
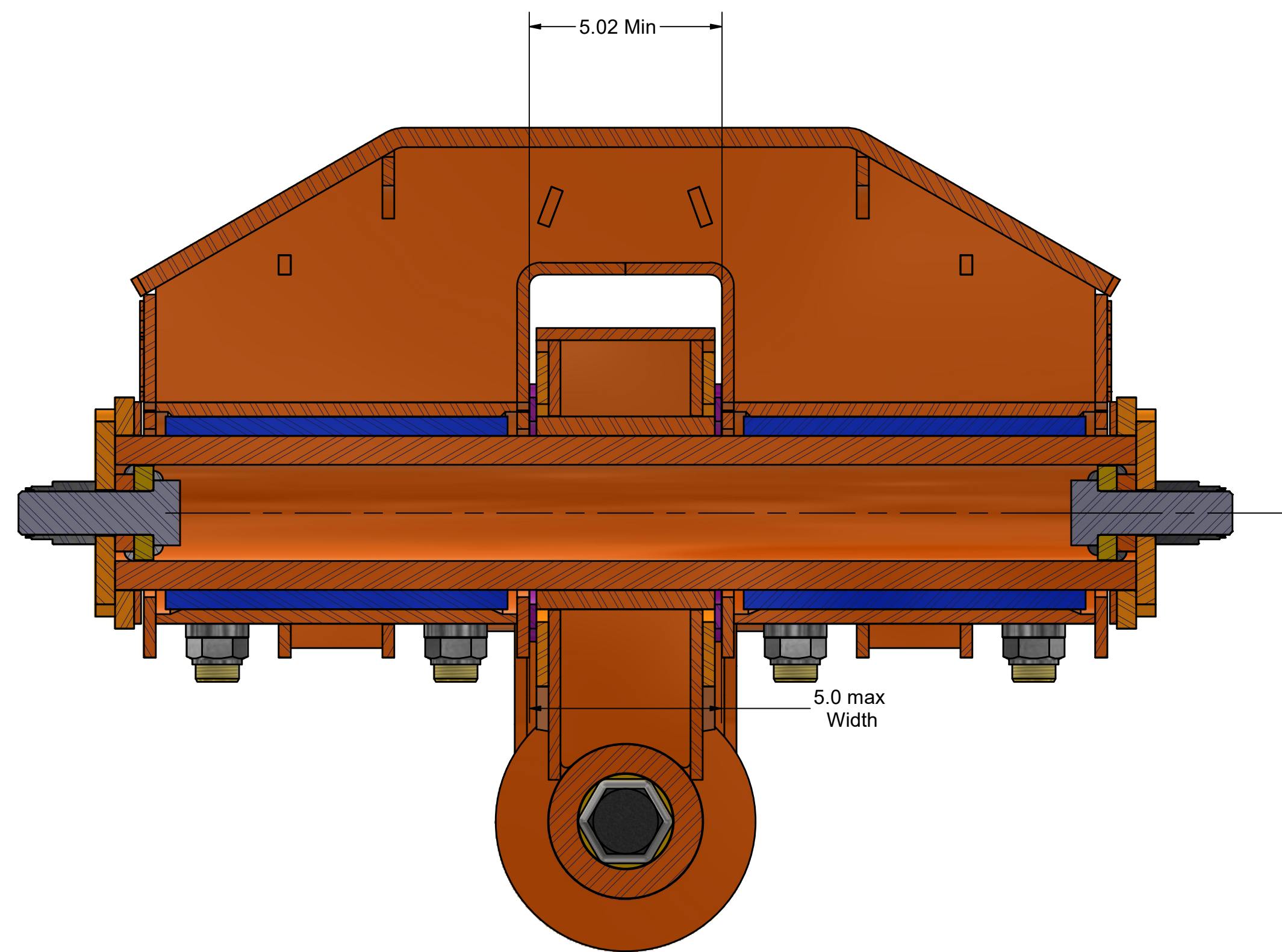
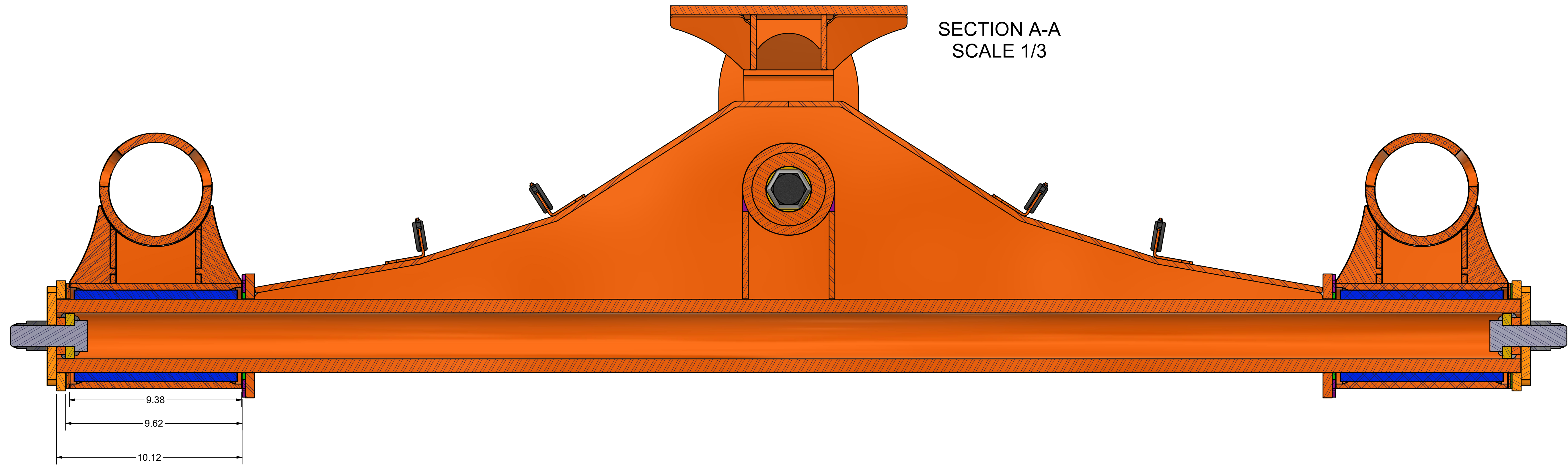


UNIT WEIGHT W/O AXLES: ~620 LBS



| DCN#                                                                                                                                                                                                                                                         | REV           | REVISION DESCRIPTION                                                                                                      | DATE     | BY | CHK | APP                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------|----------|----|-----|---------------------------------------|
| DRAFTSMAN: jschack                                                                                                                                                                                                                                           | 02/2023       | TITLE:                                                                                                                    |          |    |     |                                       |
| CHECKED: CHK                                                                                                                                                                                                                                                 |               | CUSH HAULTRA MULTI-AXLE MECH RIDE SUSPENSION. 50K WALKING BEAM UNIT, 69" STUB AXLE SPACING (29" TRACK DISC BRAKE), 10" RH |          |    |     |                                       |
| RELEASED: APP                                                                                                                                                                                                                                                |               |                                                                                                                           |          |    |     |                                       |
| WEIGHT: N/A                                                                                                                                                                                                                                                  |               |                                                                                                                           |          |    |     |                                       |
| MATERIAL:                                                                                                                                                                                                                                                    |               |                                                                                                                           |          |    |     |                                       |
| ALL OF THE INFORMATION SHOWN HEREIN IS THE INTELLECTUAL PROPERTY OF CUSH CORP AND IS SUBMITTED ONLY ON A CONFIDENTIAL BASIS. THE RECIPIENT AGREES THAT NO DISCLOSURE OF THIS INFORMATION WILL BE MADE TO A THIRD PARTY WITHOUT WRITTEN CONSENT OF CUSH CORP. |               | TOLERANCE UNLESS OTHERWISE STATED:<br>XX = +/- .06 FRACTIONS = +/- 1/16<br>XXX = +/- .031 ANGLES = +/- 1°                 |          |    |     |                                       |
| PROJECT NO:                                                                                                                                                                                                                                                  | SHEET: 1 OF 5 | SCALE: A-SIZE: NTS B-SIZE: 1/X D-SIZE: 1/X                                                                                | REV: A.1 |    |     | DRAWING(PART) NO: CHUA46WB-69AS-10RHN |

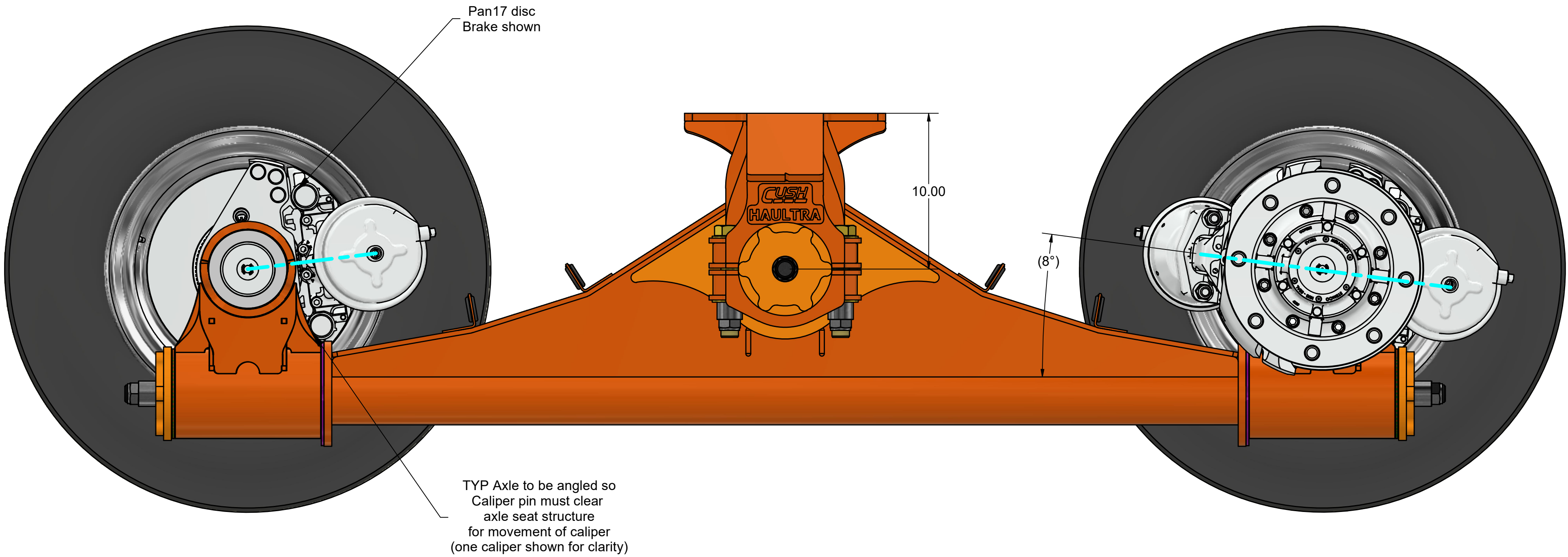
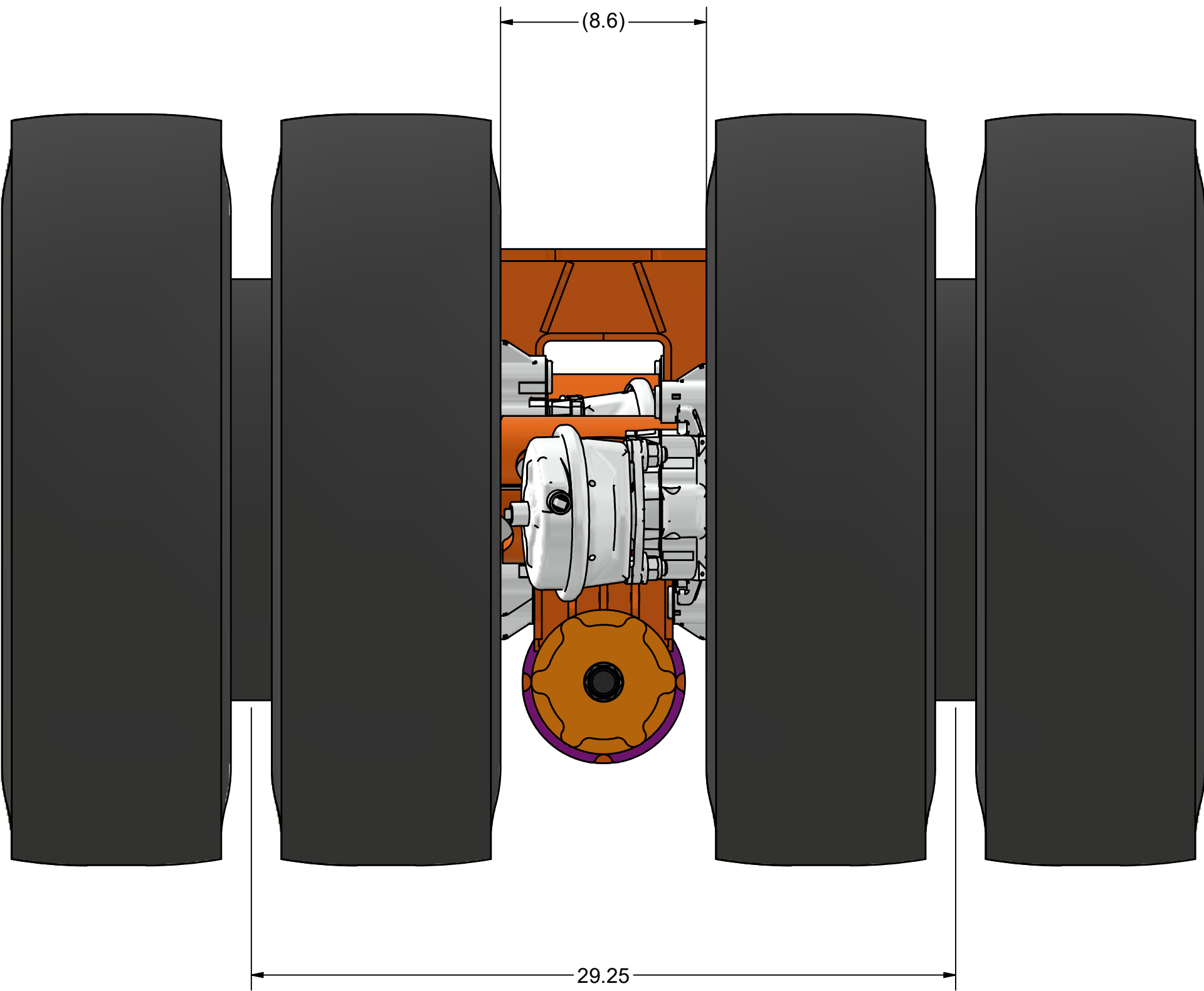
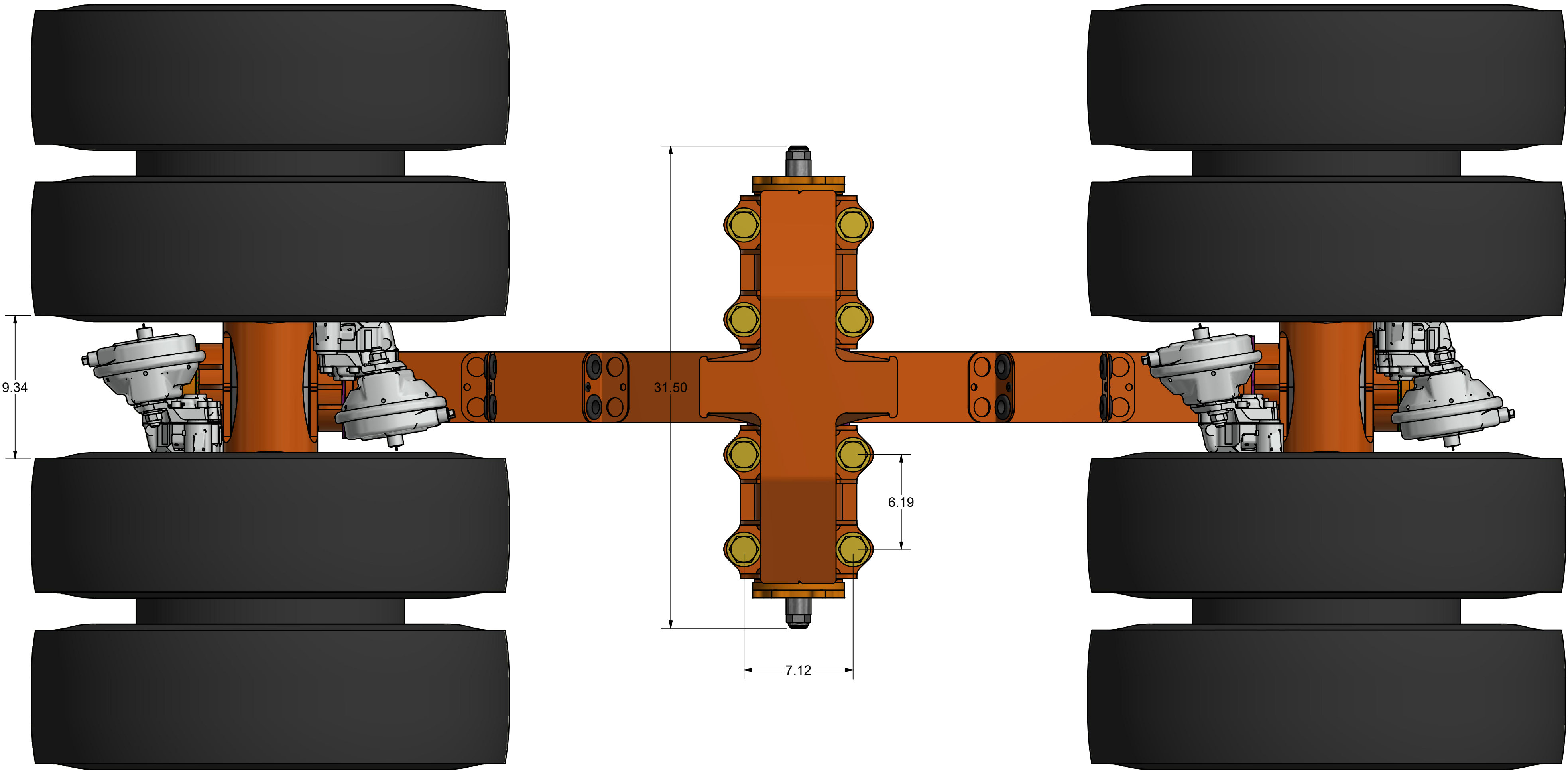
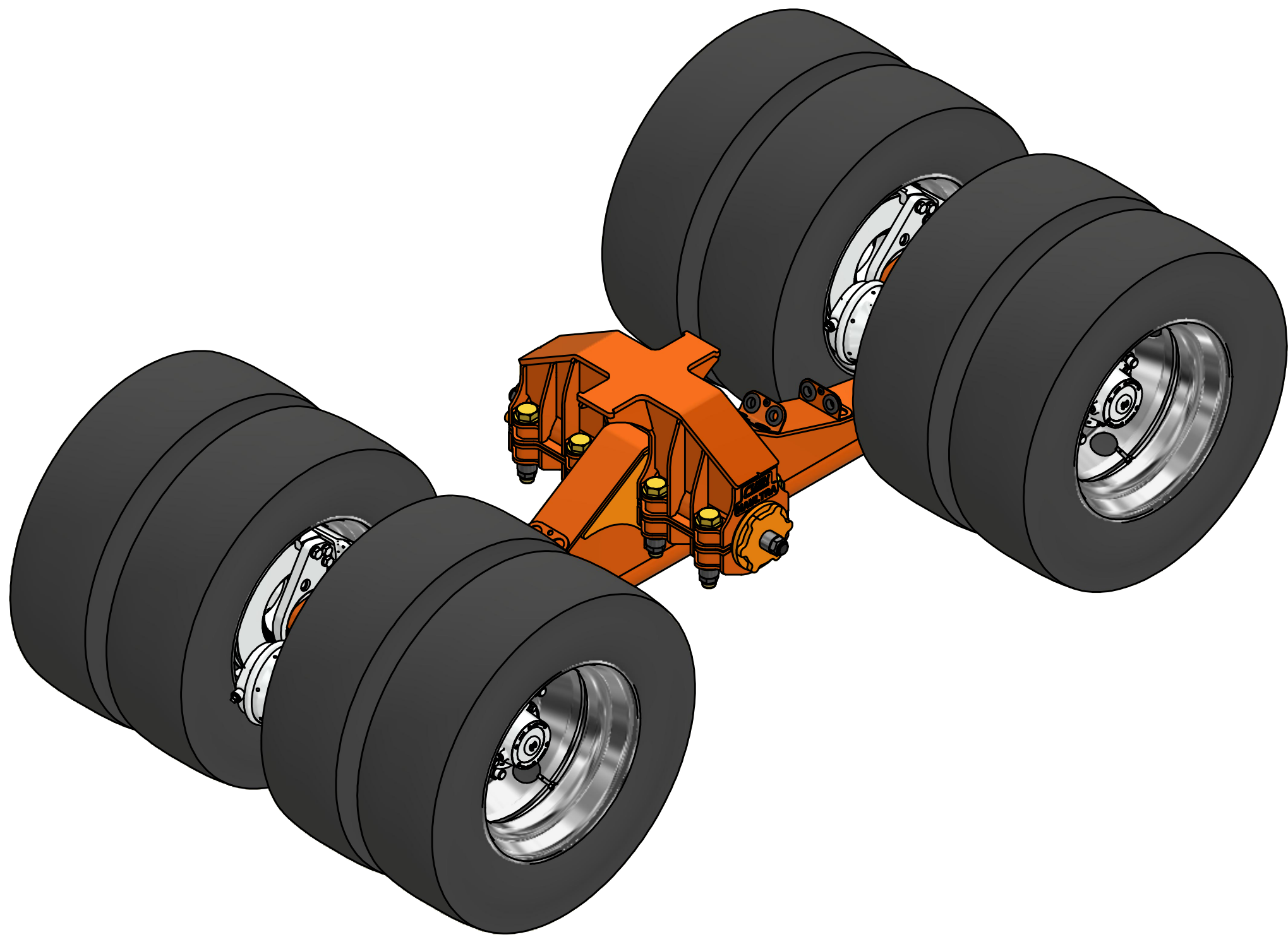




SECTION B-B  
SCALE 1/3

SECTION C-C  
SCALE 1/3

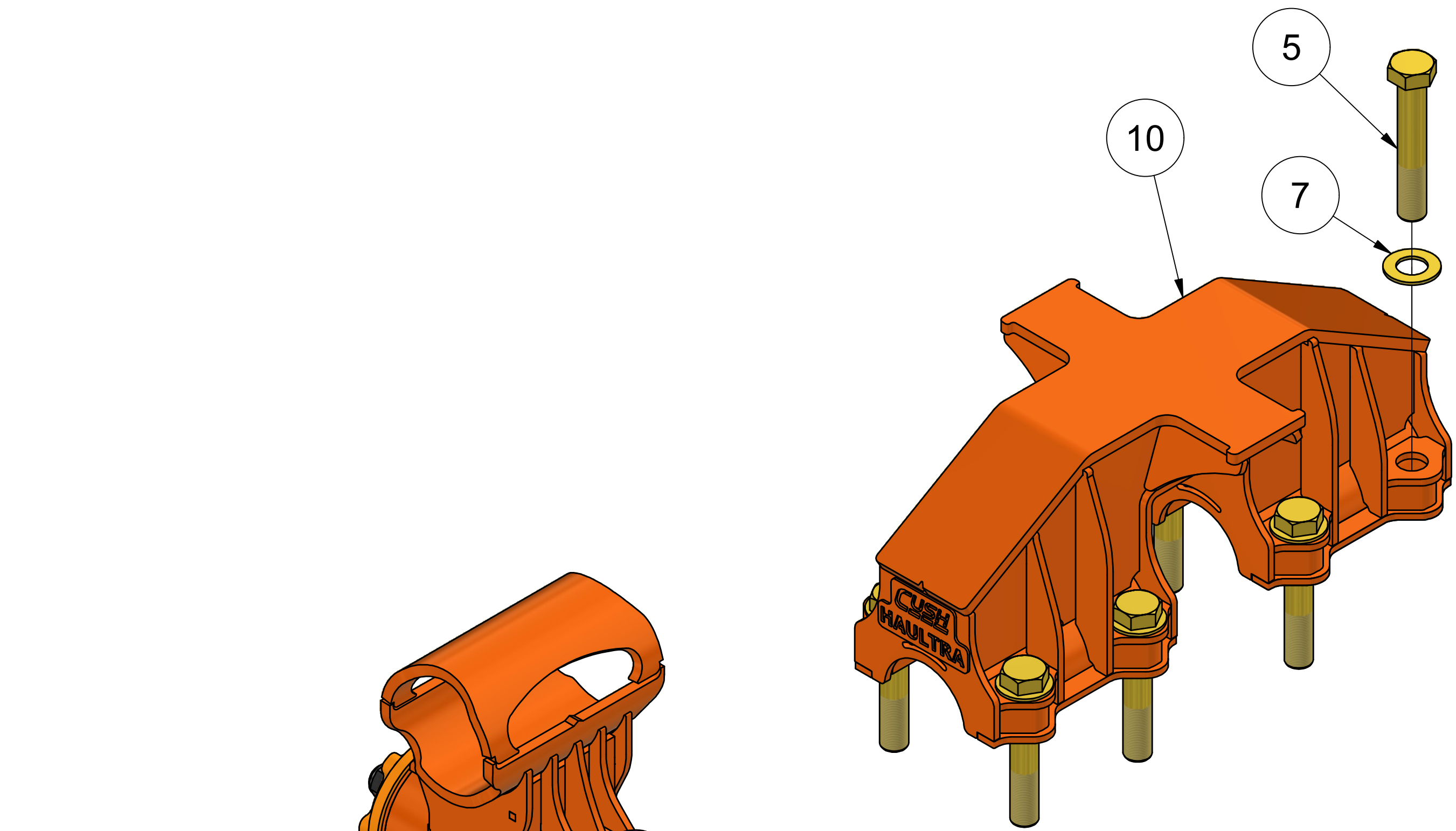
| DCN#                                                                                                                                                                                                                                                                                    |  | REV | REVISION DESCRIPTION |  |                                                                                                                                                  |  | DATE         | BY                                                                                                                                                                              | CHK | APP  |                           |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----|----------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|---------------------------|--|
| DRAFTSMAN: jschlack                                                                                                                                                                                                                                                                     |  |     | 02/2023              |  | TITLE:<br><br>CUSH HAULTRA MULTI-AXLE MECH<br>RIDE SUSPENSION. 50K WALKING<br>BEAM UNIT, 69" STUB AXLE SPACING<br>(29" TRACK DISC BRAKE), 10" RH |  |              | <br><br><b>MADE IN USA</b><br><br>Nixa, MO, USA<br>PHONE: 417-724-1239<br>www.cushcorp.com |     |      |                           |  |
| CHECKED: CHK                                                                                                                                                                                                                                                                            |  |     |                      |  |                                                                                                                                                  |  |              |                                                                                                                                                                                 |     |      |                           |  |
| RELEASED: APP                                                                                                                                                                                                                                                                           |  |     |                      |  |                                                                                                                                                  |  |              |                                                                                                                                                                                 |     |      |                           |  |
| WEIGHT: N/A                                                                                                                                                                                                                                                                             |  |     |                      |  |                                                                                                                                                  |  |              |                                                                                                                                                                                 |     |      |                           |  |
| MATERIAL:                                                                                                                                                                                                                                                                               |  |     |                      |  |                                                                                                                                                  |  |              |                                                                                                                                                                                 |     |      |                           |  |
| ALL OF THE INFORMATION SHOWN<br>HEREIN IS THE INTELLECTUAL<br>PROPERTY OF CUSH CORP AND IS<br>SUBMITTED ONLY ON A<br>CONFIDENTIAL BASIS. THE<br>RECIPIENT AGREES THAT NO<br>DISCLOSURE OF THIS INFORMATION<br>WILL BE MADE TO A THIRD PARTY<br>WITHOUT WRITTEN CONSENT OF<br>CUSH CORP. |  |     |                      |  | TOLERANCE UNLESS OTHERWISE STATED:<br><br>XX = +/- .06      FRACTIONS = +/- 1/16<br>XXX = +/- .031      ANGLES = +/- .1°                         |  |              |                                                                                                                                                                                 |     |      |                           |  |
|                                                                                                                                                                                                                                                                                         |  |     |                      |  | PROJECT NO:                                                                                                                                      |  | SHEET:       | SCALE:                                                                                                                                                                          |     | REV: | DRAWING(PART) NO:         |  |
|                                                                                                                                                                                                                                                                                         |  |     |                      |  |                                                                                                                                                  |  | 2<br>OF<br>5 | A-SIZE: NTS<br>B-SIZE: 1/X<br>D-SIZE: 1/X                                                                                                                                       |     | A.10 | CHUA46WB-69AS-10RHN_revA. |  |



| DCN#                                                                                                                                                                                                                                                                                    | REV     | REVISION DESCRIPTION                                                                                                               |                        |                                                     |             | DATE                                     | BY | CHK | APP |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------|-------------|------------------------------------------|----|-----|-----|
| DRAFTSMAN: jschlack                                                                                                                                                                                                                                                                     | 02/2023 | TITLE:                                                                                                                             |                        |                                                     |             |                                          |    |     |     |
| CHECKED: CHK                                                                                                                                                                                                                                                                            |         | CUSH HAULTRA MULTI-AXLE MECH<br>RIDE SUSPENSION. 50K WALKING<br>BEAM UNIT, 69" STUB AXLE SPACING<br>(29" TRACK DISC BRAKE), 10" RH |                        |                                                     |             |                                          |    |     |     |
| RELEASED: APP                                                                                                                                                                                                                                                                           |         |                                                                                                                                    |                        |                                                     |             |                                          |    |     |     |
| WEIGHT: N/A                                                                                                                                                                                                                                                                             |         |                                                                                                                                    |                        |                                                     |             |                                          |    |     |     |
| MATERIAL:                                                                                                                                                                                                                                                                               |         |                                                                                                                                    |                        |                                                     |             |                                          |    |     |     |
| ALL OF THE INFORMATION SHOWN<br>HEREIN IS THE INTELLECTUAL<br>PROPERTY OF CUSH CORP AND IS<br>SUBMITTED ONLY ON A<br>CONFIDENTIAL BASIS. THE<br>RECIPIENT AGREES THAT NO<br>DISCLOSURE OF THIS INFORMATION<br>WILL BE MADE TO A THIRD PARTY<br>WITHOUT WRITTEN CONSENT OF<br>CUSH CORP. |         | TOLERANCE UNLESS OTHERWISE STATED:                                                                                                 |                        |                                                     |             |                                          |    |     |     |
|                                                                                                                                                                                                                                                                                         |         | XX = +/- .06 FRACTIONS = +/- 1/16                                                                                                  |                        |                                                     |             |                                          |    |     |     |
|                                                                                                                                                                                                                                                                                         |         | XXX = +/- .031 ANGLES = +/- 1°                                                                                                     |                        |                                                     |             |                                          |    |     |     |
|                                                                                                                                                                                                                                                                                         |         | PROJECT NO:                                                                                                                        | SHEET:<br>3<br>OF<br>5 | SCALE:<br>A-SIZE: NTS<br>B-SIZE: 1/X<br>D-SIZE: 1/X | REV:<br>A.1 | DRAWING(PART) NO:<br>CHUA46WB-69AS-10RHN |    |     |     |



MADE IN USA  
Nixa, MO, USA  
PHONE: 417-724-1239  
www.cushcorp.com



| PARTS LIST |                                                               |                      |     |
|------------|---------------------------------------------------------------|----------------------|-----|
| ITEM       | DESCRIPTION                                                   | PART NUMBER          | QTY |
| 1          | CUSHMATE CAP                                                  | B1638                | 2   |
|            | Cush SubAssembly of hgr/Beam                                  | ACHUA46WB-69AS-10RHN |     |
| 2          | TRUNNION/WALKING BEAM                                         | W2612-69             | 1   |
| 3          | NO SPLIT BUSHING, POLY, 8.875" LOG, 4" ID X 5" OD             | C0405-NU             | 4   |
| 4          | THRUST WASHER, 5.75" OD, 4.03" ID                             | F1301                | 4   |
| 5          | HHCS, 1-1/8"-12 UNF X 6.5" LONG, GRADE 8, PLAIN               | H0139                | 8   |
| 6          | SHEAR-TITE™ NUT, 1-1/8"-12 UNF                                | H1130                | 12  |
| 7          | WASHER, 1-1/8" SAE THRU-HARD, PLAIN                           | H2102                | 16  |
| 9          | SPRING CAP WITH RAISED NUT MOUNT                              | W1514-2              | 2   |
| 10         | HAULTRA HANGER - NARROW VERSION                               | W1514-10MHN-15CNT    | 1   |
| 11         | TRUNNION END CAP                                              | W2601-CAP            | 4   |
| 13         | AXLE SEAT WELDMENT                                            | W2600                | 2   |
| 14         | 1/4" RUBBER GROMMET                                           | AC0317-0.44          | 4   |
| 15         | RUBBER GROMMET FOR 1.25" HOLE, .88" ID, 3/16" PANEL THICKNESS | AC0317-1.25          | 8   |

CUSH Assembly NOTES:

- 1. Cush to grease washer face of short cross tube for articulation at hanger (not on trunion ends)
- 2. Cush to not grease OD of bushings, can put teflon grease on ID of bushings for install ease.
- 3. Cush to use sandpaper (flapper grinder) to clean up surface of trunion tube-4 plcs.
- 4. Cush to torque off all shearTITE nuts & mark with green paint pen as torqued
- 5. Customer to spot weld 4 studs/nuts after assembly and alignment per drwg.

Note 2  
Service Part-no split  
Atro#NW30000 (urethane)  
Rubber version  
Neway 91008022  
W&C SP-0192

2 Places  
Grease this washer face  
before assembly to hanger

Note 3

Note 4  
Note 5  
2 plcs

Note 4  
Note 5  
2 plcs

Note 4

| DCN#                                                                                                                                                                                                                                                                                    |  | REV | REVISION DESCRIPTION |             |                                                                                                                                    |             | DATE                        | BY     | CHK                                                                                                                                                                                    | APP               |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----|----------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--|
| DRAFTSMAN: jschlack                                                                                                                                                                                                                                                                     |  |     | 02/2023              |             | TITLE:                                                                                                                             |             |                             |        | <div><br/><b>MADE IN USA</b><br/>Nixa, MO, USA<br/>PHONE: 417-724-1239<br/>www.cushcorp.com</div> |                   |  |
| CHECKED: CHK                                                                                                                                                                                                                                                                            |  |     |                      |             | CUSH HAULTRA MULTI-AXLE MECH<br>RIDE SUSPENSION. 50K WALKING<br>BEAM UNIT, 69" STUB AXLE SPACING<br>(29" TRACK DISC BRAKE), 10" RH |             |                             |        |                                                                                                                                                                                        |                   |  |
| RELEASED: APP                                                                                                                                                                                                                                                                           |  |     |                      |             |                                                                                                                                    |             |                             |        |                                                                                                                                                                                        |                   |  |
| WEIGHT: N/A                                                                                                                                                                                                                                                                             |  |     |                      |             |                                                                                                                                    |             |                             |        |                                                                                                                                                                                        |                   |  |
| MATERIAL:                                                                                                                                                                                                                                                                               |  |     |                      |             |                                                                                                                                    |             |                             |        |                                                                                                                                                                                        |                   |  |
| ALL OF THE INFORMATION SHOWN<br>HEREIN IS THE INTELLECTUAL<br>PROPERTY OF CUSH CORP AND IS<br>SUBMITTED ONLY ON A<br>CONFIDENTIAL BASIS. THE<br>RECIPIENT AGREES THAT NO<br>DISCLOSURE OF THIS INFORMATION<br>WILL BE MADE TO A THIRD PARTY<br>WITHOUT WRITTEN CONSENT OF<br>CUSH CORP. |  |     |                      |             | TOLERANCE UNLESS OTHERWISE STATED:                                                                                                 |             |                             |        |                                                                                                                                                                                        |                   |  |
|                                                                                                                                                                                                                                                                                         |  |     |                      |             | XX = +/- .06      FRACTIONS = +/- 1/16                                                                                             |             |                             |        |                                                                                                                                                                                        |                   |  |
|                                                                                                                                                                                                                                                                                         |  |     |                      |             | XXX = +/- .031      ANGLES = +/- 1°                                                                                                |             |                             |        |                                                                                                                                                                                        |                   |  |
|                                                                                                                                                                                                                                                                                         |  |     |                      |             | PROJECT NO:                                                                                                                        |             | SHEET:                      | SCALE: | REV:                                                                                                                                                                                   | DRAWING(PART) NO: |  |
|                                                                                                                                                                                                                                                                                         |  | 4   | OF                   | A-SIZE: NTS | B-SIZE: 1/X                                                                                                                        | D-SIZE: 1/X | A.1CHUA46WB-69AS-10RHN_revA |        |                                                                                                                                                                                        |                   |  |

## INSTALLATION DISCLAIMER NOTES:

2) IT IS THE RESPONSIBILITY OF THE INSTALLER TO DETERMINE THE CORRECT LOCATION OF THE SUSPENSION IN ORDER TO PROVIDE THE PROPER TRAILER LOAD DISTRIBUTION. THE GROSS AXLE WEIGHT RATING (GAWR) OF EACH AXLE MUST NOT EXCEED THE RATED CAPACITY OF ANY OF THE COMPONENTS INVOLVED. THE SUSPENSION CAPACITY RATINGS ARE FOR SUSPENSION COMPONENTS AND AXLE BEAM ONLY.

4) IT IS THE RESPONSIBILITY OF THE SUSPENSION INSTALLER TO READ THE INSTRUCTIONS ON ALL THE DRAWING SHEETS THOROUGHLY BEFORE PROCEEDING WITH A SUSPENSION INSTALLATION.

## CUSTOMER TORQUE INSTRUCTIONS:

2) TORQUE VALUES GIVEN ARE SPECIFIED FOR THE FASTENERS IN THE CONDITION SUPPLIED BY CUSH CORPORATION.

4) CAUTION: OVER-TORQUEING FASTENERS COULD RESULT IN MATERIAL FAILURE.

**ORIGINAL-INSTALLATION INSPECTION NOTES, VERIFY THAT:**

2) THE AXLES HAVE BEEN ALIGNED PROPERLY.

4) ALL SUSPENSION BOLT TORQUES ARE TO CUSH SPECIFICATIONS.

5) THE SUSPENSION CAN ARTICULATE FREELY THROUGH ITS ENTIRE TRAVEL AND ADEQUATE COMPONENT CLEARANCES HAVE BEEN PROVIDED.

**INSPECTION: 30-DAY, 90-DAY, & AT EVERY BRAKE LINING CHANGE.**

## 1) CHECK INSTALLATION CLEARANCE REQUIREMENTS.

2) CHECK FOR ANY SIGNS OF WEAR OR COMPONENT INTERFERENCES.

3) CHECK SUSPENSION ATTACHMENT WELDS FOR SIGNS OF PROBLEMS.

4) CHECK THAT ALL BOLTS ARE IN PLACE AND SECURELY TORQUED.

5) CHECK PIVOT BUSHINGS & CLAMPING CONNECTIONS FOR PROBLEMS.

6) CHECK THAT THE TRAILER IS LEVEL.

7) CHECK TIRE WEAR THAT MIGHT INDICATE AN ALIGNMENT PROBLEM.

| WRENCH OR<br>SOCKET SIZE | LOCK NUT DESCRIPTION | LOCKING NUT TORQUE (TOP LOCK, CENTER LOCK, NYLOCK) |       |        |            |      |               |     |
|--------------------------|----------------------|----------------------------------------------------|-------|--------|------------|------|---------------|-----|
|                          |                      |                                                    |       |        | DRY FT LBS |      | *LUBED FT*LBS |     |
|                          |                      | SIZE                                               | GRADE | TPI    | MIN        | MAX  | MIN           | MAX |
| 15/16                    | SPRING CAP           | 5/8                                                | 8/C   | 11-UNC | 209        | 246  | 157           | 184 |
| 1 1/8                    | TRUNNION HAGNER      | 3/4                                                | 8/C   | 16-UNF | 414        | 487  | 311           | 365 |
| WRENCH OR<br>SOCKET SIZE | U-BOLT DESCRIPTION   | U-BOLT NUT TORQUE                                  |       |        |            |      |               |     |
|                          |                      |                                                    |       |        | DRY FT LBS |      | *LUBED FT*LBS |     |
|                          |                      | SIZE                                               | GRADE | TPI    | MIN        | MAX  | MIN           | MAX |
| 1 1/8                    | AXLE U-BOLT          | 3/4                                                | 8/C   | 10-UNC | 255        | 300  | 191           | 225 |
| 1 11/16                  | TRUNNION U-BOLT      | 1 1/8                                              | 8/C   | 12-UNF | 961        | 1131 | 721           | 848 |

## U-BOLT INSTALLATION NOTES:

WARNING: DO NOT APPLY ANY LUBRICANTS TO THE U-BOLTS

1) U-BOLTS SHOULD ONLY BE INSTALLED AND TORQUED AFTER COMPLETION OF AXLE WELDING. ALLOW SUFFICIENT AXLE COOLING TIME BEFORE APPLYING TORQUE TO U-BOLTS.

2) SNUG U-BOLTS EVENLY BEFORE APPLYING TORQUE. CHECK THAT U-BOLTS ARE PARALLEL AND SQUARE TO AXLE.

3) TORQUE U-BOLTS IN A THREE STEP PROCESS TO AVOID AN IMPROPERLY CLAMPED AXLE AND RESULTING DAMAGE. THIS ALLOWS THE U-BOLT TO STRETCH/RELAX AND HOLD TORQUE. PROPER TIGHTENING WILL ALLOW EQUAL AMOUNT OF TREAD ABOVE EACH NUT.

## FIRST STEP-1/3 OF FINAL TORQUE

## SECOND STEP-2/3 OF FINAL TORQUE

### THIRD STEP-FINAL TORQUE

## TRUNNION HANGER MOUNTING TO ASSEMBLY

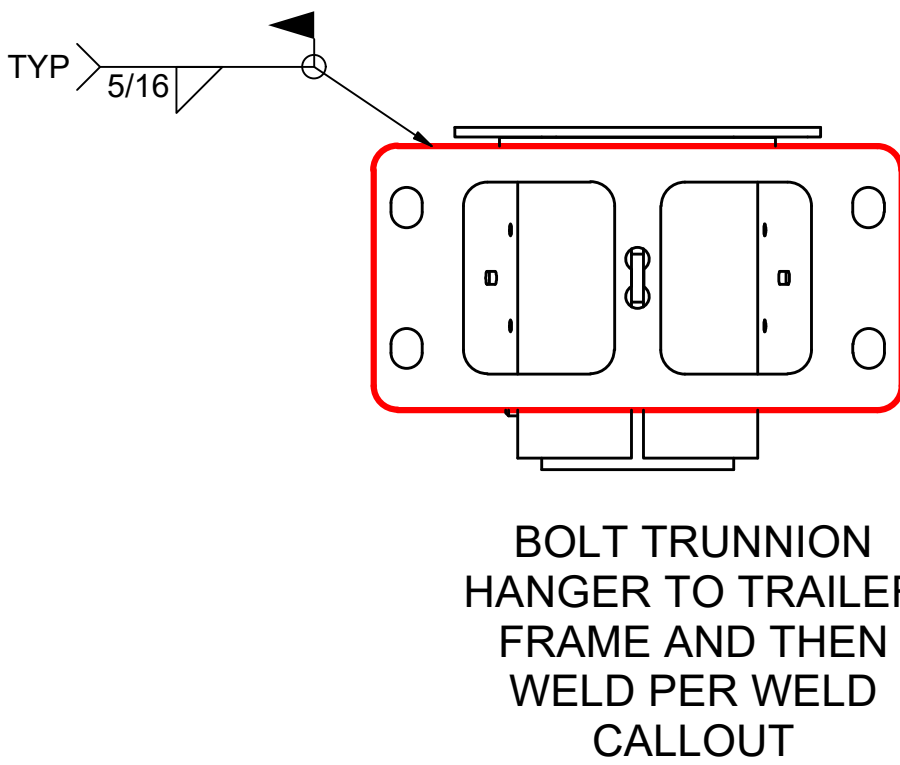
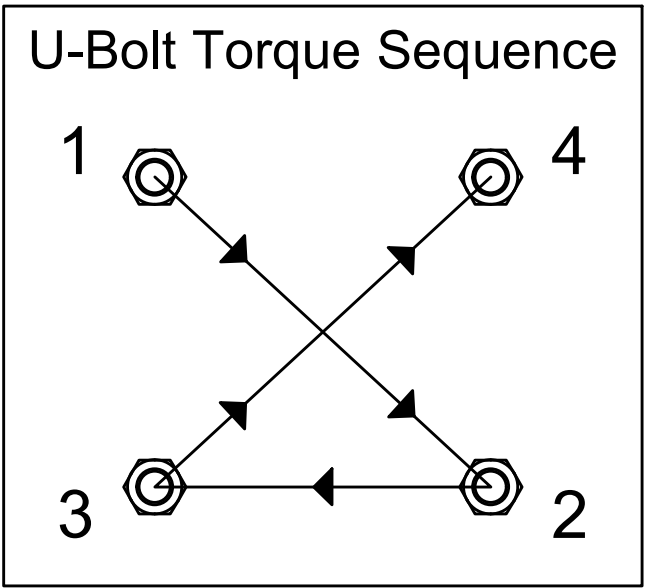
1) CUSTOMER IS RESPONSIBLE FOR PROPER HANGER SUPPORT STRUCTURE TO ATTACH TO TRAILER FRAME.

2) CUSTOMER TO MOUNT THE TRUNNION HANGER TO TRAILER FRAME PEDESTAL WITH LOOSE BOLTS.

3) CHECK THAT TOPS OF TRUNNION HANGERS ARE SQUARE TO EACH OTHER AND THEN CUSTOMER/INSTALLER TO TIGHTEN THE 3/4" TRUNNION HANGER TUBE CLAMP BOLTS TO SPECIFICATION OR CHECK THAT THEY ARE TORQUED PROPERLY IF TIGHT FROM CUSH AND ARE FLAT AND CENTERED PROPERLY TO FIT TRAILER FRAME MOUNTING.

4) ALIGN THE FRONT AXLE TO THE KINGPIN FRAME AND TIGHTEN THE, CUSTOMER SUPPLIED GRADE 5 OR BETTER, 5/8" TRUNNION HANGER FASTENERS TO PROPER SPEC, RECHECK ALIGNMENT TO FRONT/REAR AXLE FROM KINGPIN.

5) WELD THE TRUNNION HANGER BASE TO THE TRAILER FRAME ALL AROUND WITH A 5/16" WELD. NOTE, IF THE INSTALLER IS USING A SINGLE SPACER IT IS TO BE WELDED ALL AROUND TO BOTH THE TRAILER FRAME AND THE TRUNNION HANGER BASE.



| DC#N                                                                                                                                                                                                                                                         |  | REV | REVISION DESCRIPTION               |             | DATE                                                                                                                                                                                                                                                                                                               | BY | CHK          | APP |                             |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----|------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------|-----|-----------------------------|--|
| DRAFTSMAN: jschlack                                                                                                                                                                                                                                          |  |     | TITLE:                             |             | <div><br/><b>MADE IN USA</b> <br/>Nixa, MO, USA<br/>PHONE: 417-724-1239<br/><a href="http://www.cushcorp.com">www.cushcorp.com</a></div> |    |              |     |                             |  |
| I02/2023                                                                                                                                                                                                                                                     |  |     |                                    |             |                                                                                                                                                                                                                                                                                                                    |    |              |     |                             |  |
| CHECKED: CHK                                                                                                                                                                                                                                                 |  |     |                                    |             |                                                                                                                                                                                                                                                                                                                    |    |              |     |                             |  |
| RELEASED: APP                                                                                                                                                                                                                                                |  |     |                                    |             |                                                                                                                                                                                                                                                                                                                    |    |              |     |                             |  |
| WEIGHT: 0.575 lbmass                                                                                                                                                                                                                                         |  |     |                                    |             |                                                                                                                                                                                                                                                                                                                    |    |              |     |                             |  |
| MATERIAL:                                                                                                                                                                                                                                                    |  |     | TOLERANCE UNLESS OTHERWISE STATED: |             |                                                                                                                                                                                                                                                                                                                    |    |              |     |                             |  |
| ALL OF THE INFORMATION SHOWN HEREIN IS THE INTELLECTUAL PROPERTY OF CUSH CORP AND IS SUBMITTED ONLY ON A CONFIDENTIAL BASIS. THE RECIPIENT AGREES THAT NO DISCLOSURE OF THIS INFORMATION WILL BE MADE TO A THIRD PARTY WITHOUT WRITTEN CONSENT OF CUSH CORP. |  |     | .XX ± .1; .06                      |             | FRACTIONS = +/- 1/16                                                                                                                                                                                                                                                                                               |    |              |     |                             |  |
|                                                                                                                                                                                                                                                              |  |     | .XXX ± .031                        |             | ANGLES = +/- 1°                                                                                                                                                                                                                                                                                                    |    |              |     |                             |  |
|                                                                                                                                                                                                                                                              |  |     | PROJECT NO:                        |             | SHEET:                                                                                                                                                                                                                                                                                                             |    | SCALE:       |     | REV:                        |  |
|                                                                                                                                                                                                                                                              |  |     | OF                                 |             | OF                                                                                                                                                                                                                                                                                                                 |    | A-SIZE: NTS  |     | A.1CHUA46WB-69AS-10RHN_revA |  |
|                                                                                                                                                                                                                                                              |  |     | 5                                  |             | 5                                                                                                                                                                                                                                                                                                                  |    | B-SIZE: 1/1X |     |                             |  |
|                                                                                                                                                                                                                                                              |  |     |                                    | D-SIZE: 1/X |                                                                                                                                                                                                                                                                                                                    |    |              |     |                             |  |