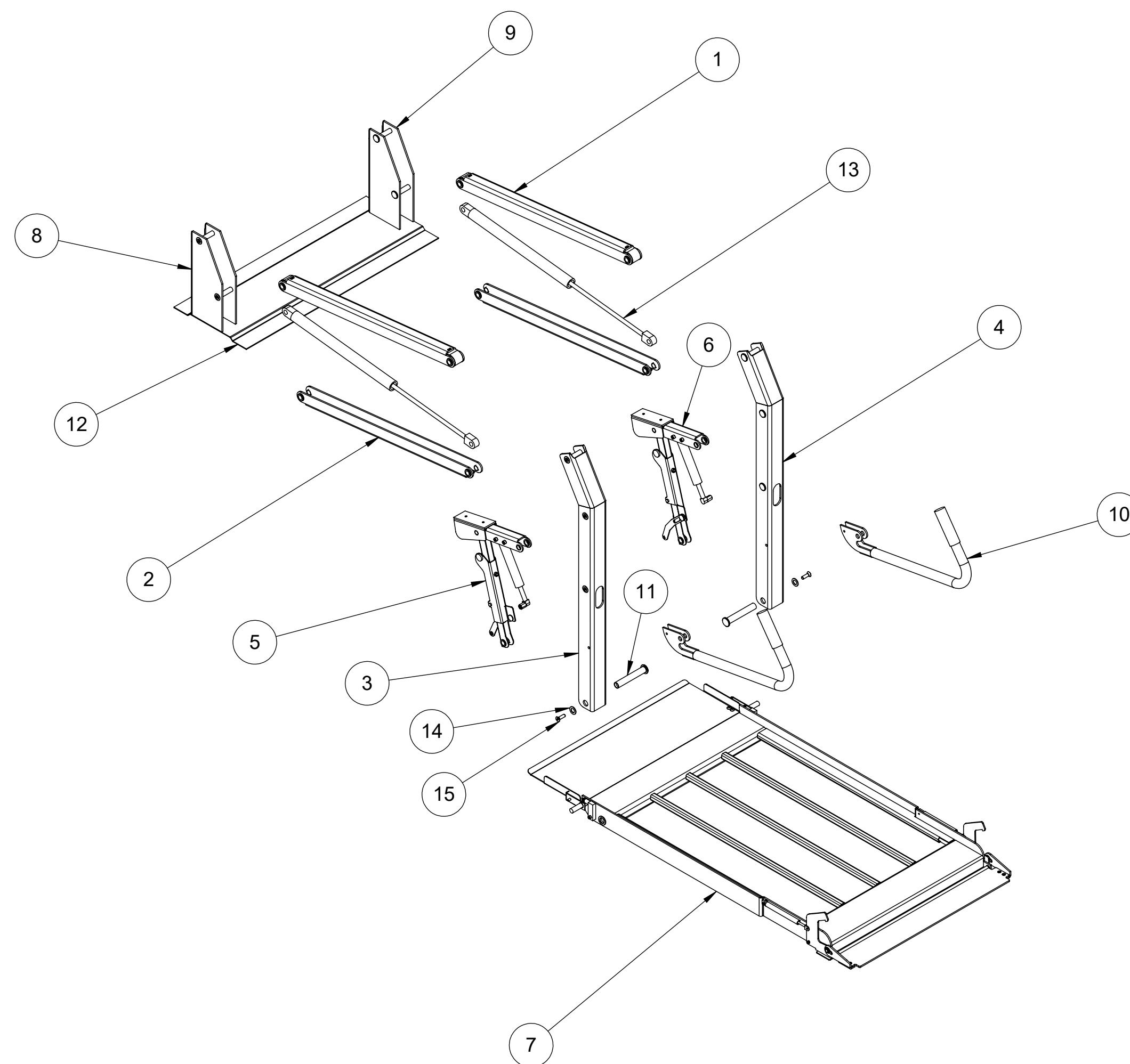


D

C

B

A



ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	SA100	TOP PARALLEL ARM ASSEMBLY	2
2	SA200	BOTTOM PARALLEL ARM ASSEMBLY	2
3	SA300-01	VERTICAL ARM ASSEMBLY (LEFT)	1
4	SA300-02	VERTICAL ARM ASSEMBLY (RIGHT)	1
5	SA400-01	PIVOT ARM ASSEMBLY (LEFT)	1
6	SA400-02	PIVOT ARM ASSEMBLY (RIGHT)	1
7	SSA501	PLATFORM BODY SUB ASSEMBLY	1
8	SA600-01	TOWER ASSEMBLY (LEFT)	1
9	SA600-02	TOWER ASSEMBLY (RIGHT)	1
10	SA700	HANDRAIL ASSEMBLY	2
11	D802	PIN TYPE 2	2
12	EP100	BASEPLATE	1
13	PP100	HYDRAULIC SYSTEM	2
14	98017A220	18-8 STAINLESS STEEL MIL. SPEC. WASHER, PASSIVATED, 3/4" SCREW SIZE, NAS 1149-C1290R MCMASTER-CARR # 98017A220	2
15	91253A456	BLACK-OXIDE ALLOY STEEL HEX DRIVE FLAT HEAD SCREW, 7/16"-20 THREAD SIZE, 1-1/2" LONG MCMASTER-CARR # 91253A456	2

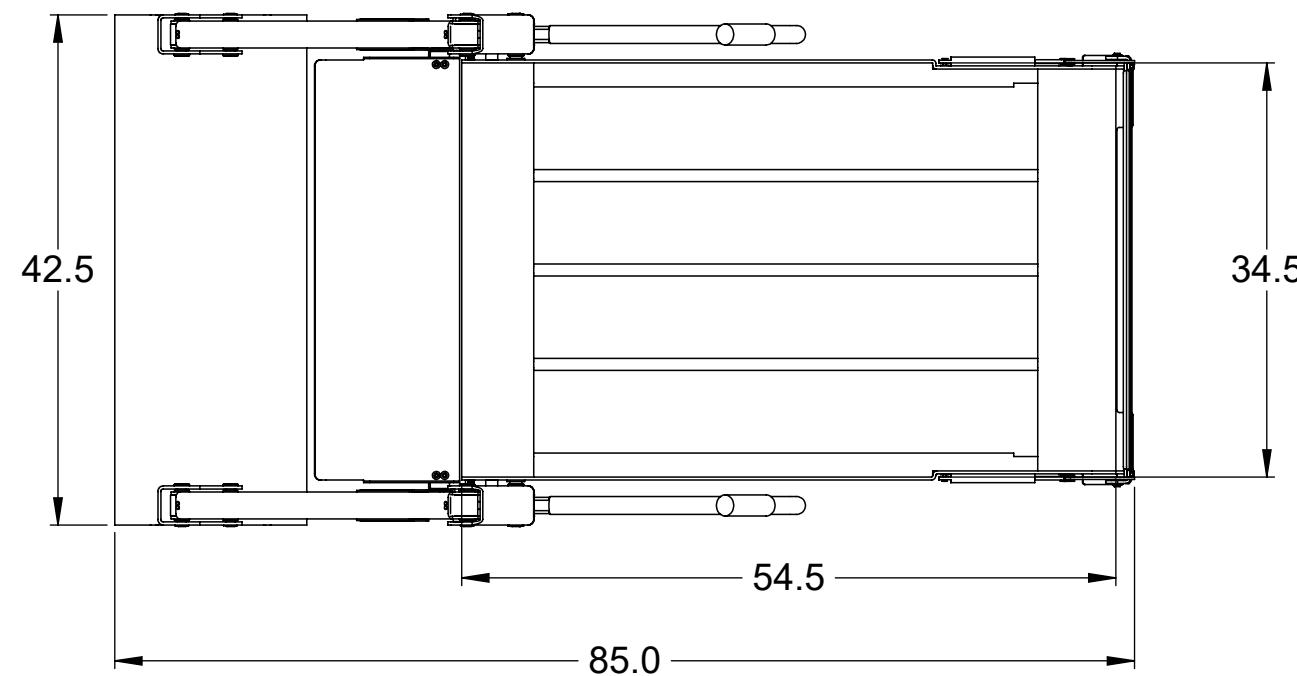
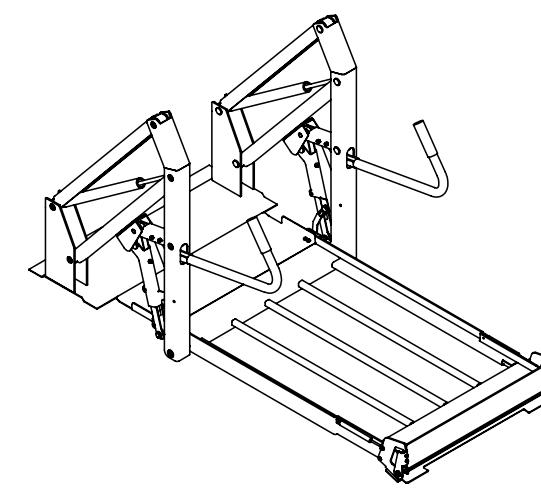
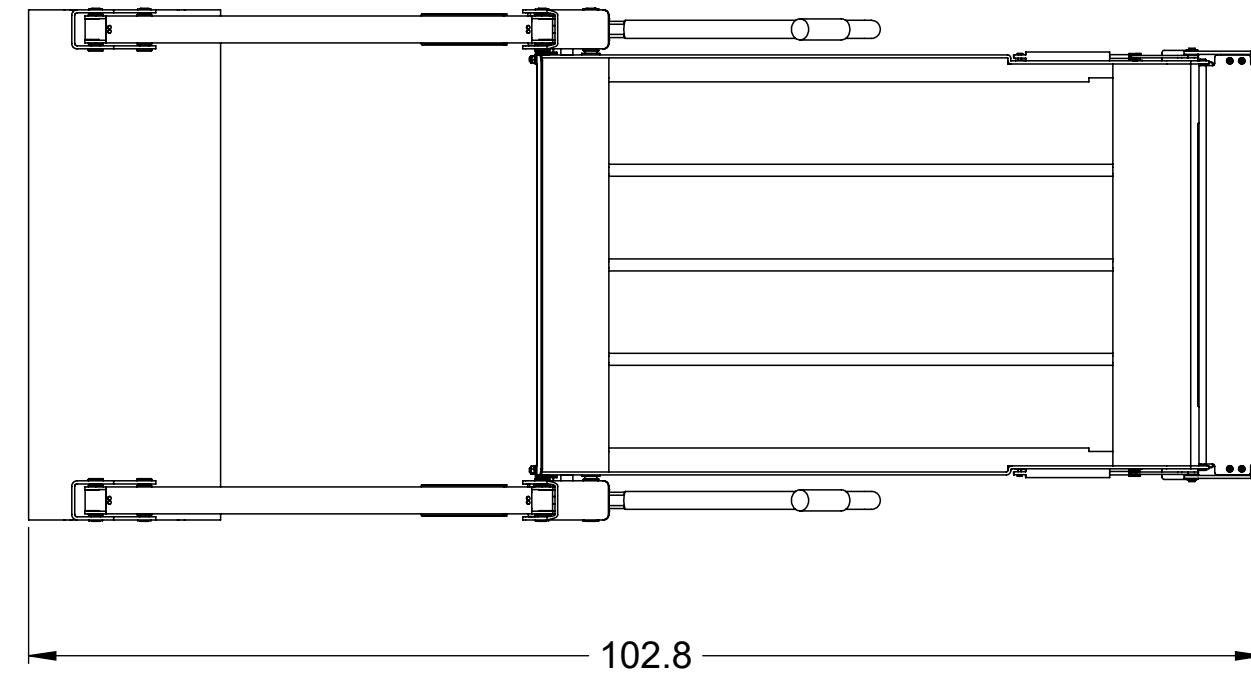
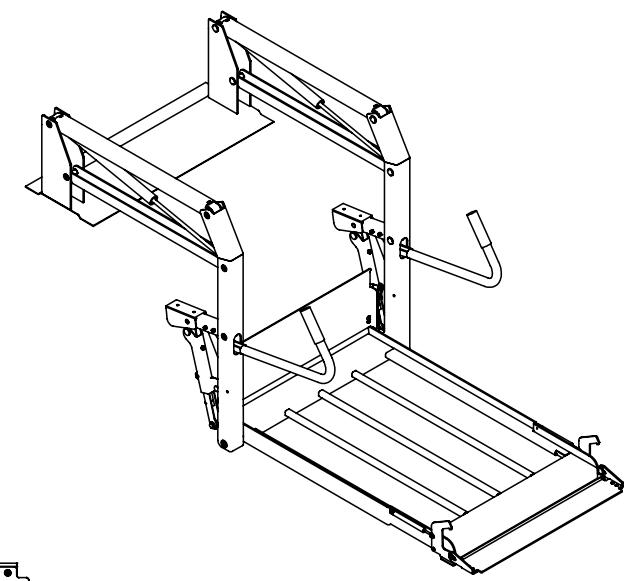
UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994		SolidWorks MAINTAINED DATA CHANGES SHALL BE INCORPORATED ELECTRONICALLY BY THE DESIGN ACTIVITY	
DIMENSIONS ARE IN INCHES TOLERANCES APPLY AS SHOWN BELOW		PROPRIETARY NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM, WITHOUT THE WRITTEN PERMISSION OF Conestoga College.	
0 PL DEC 1 PL DEC 2 PL DEC 3 PL DEC ANGLES SURFACE ROUGHNESS		± 0.03 ± 0.02 ± 0.01 ± 0.005 125 µin	
CUSTOMER WHEELCHAIR USER PROJECT WHEELCHAIR LIFT			
DRAWN BY K. LEE		DATE 2019.06.08	
CHECKED BY K. LEE		DATE 2019.06.08	
APPROVED K. LEE		DATE 2019.06.08	
SIZE C	DRAWING NO GA100	REVISION -	
SCALE 1:16	WEIGHT g	1 OF 1	

D

C

B

A

**D****C****B****A**

4

3

2

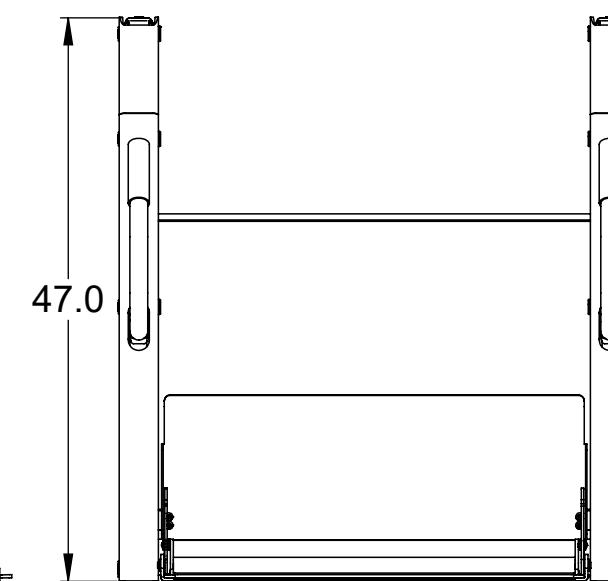
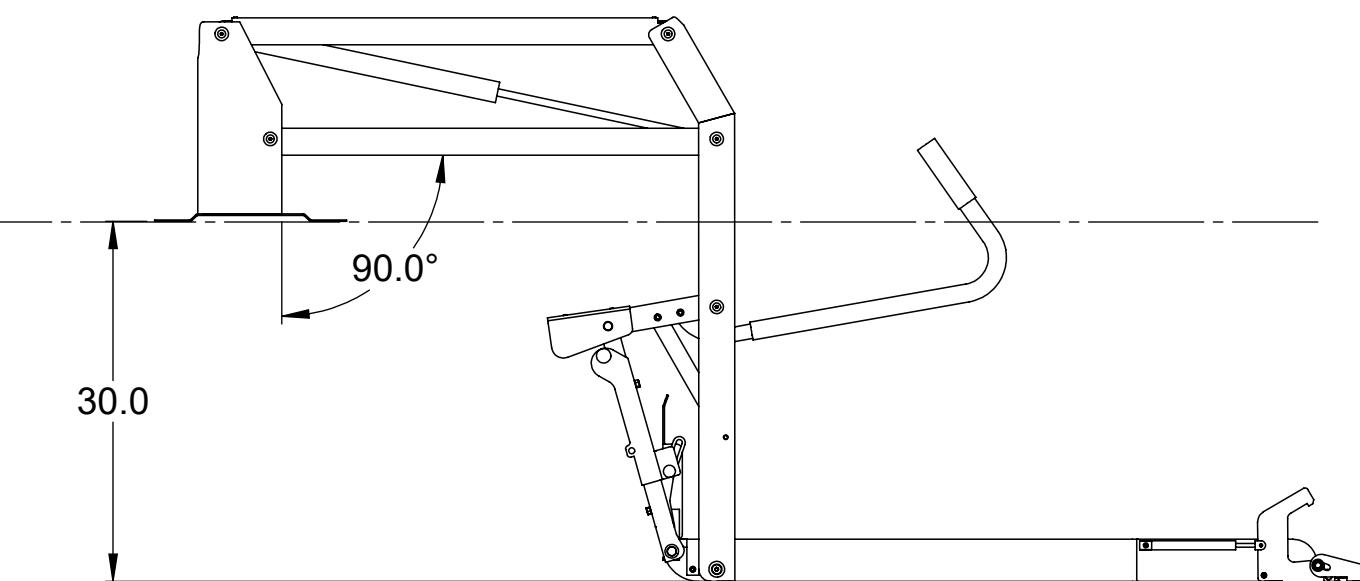
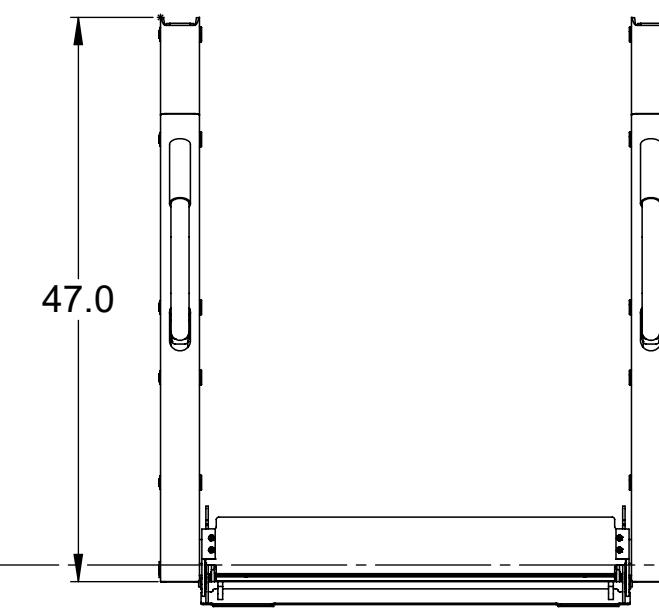
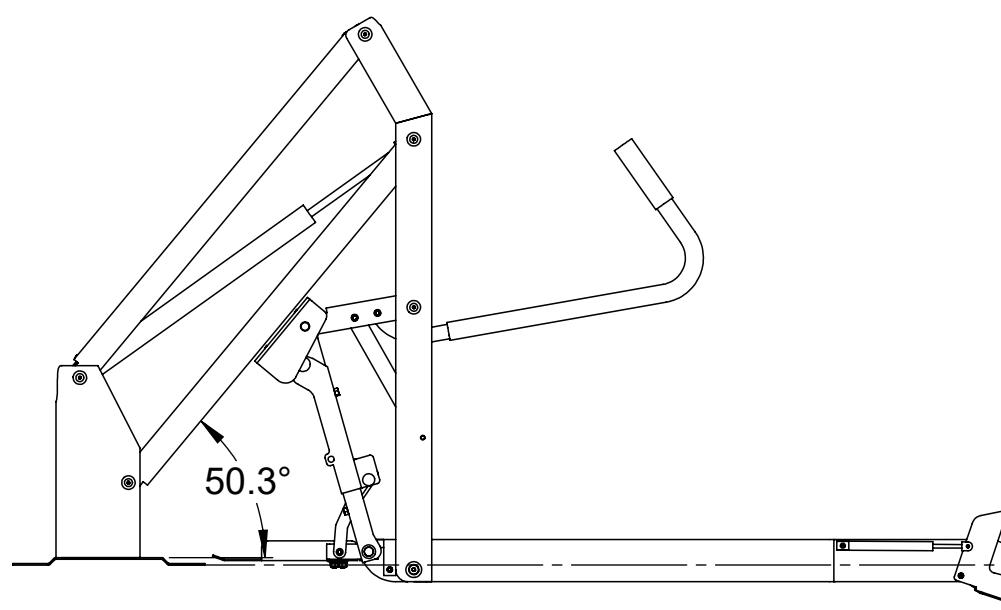
1

4

3

2

1



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DO NOT SCALE DRAWING  
INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994  
DIMENSIONS ARE IN INCHES  
TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC  $\pm 0.03$   
1 PL DEC  $\pm 0.02$   
2 PL DEC  $\pm 0.01$   
3 PL DEC  $\pm 0.005$   
ANGLE  $\pm 0.005$   
SURFACE ROUGHNESS  $125 \mu\text{in}$

SolidWorks MAINTAINED DATA  
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CUSTOMER  
WHEELCHAIR USER  
PROJECT  
WHEELCHAIR LIFT

DRAWN BY  
K. LEE  
DATE  
2019.06.08  
CHECKED BY  
K. LEE  
DATE  
2019.06.08  
APPROVED  
K. LEE  
DATE  
2019.06.08

**C** CONESTOGA  
Connect Life and Learning  
299 Doon Valley Drive, Kitchener, ON, N2G 4M4  
TITLE

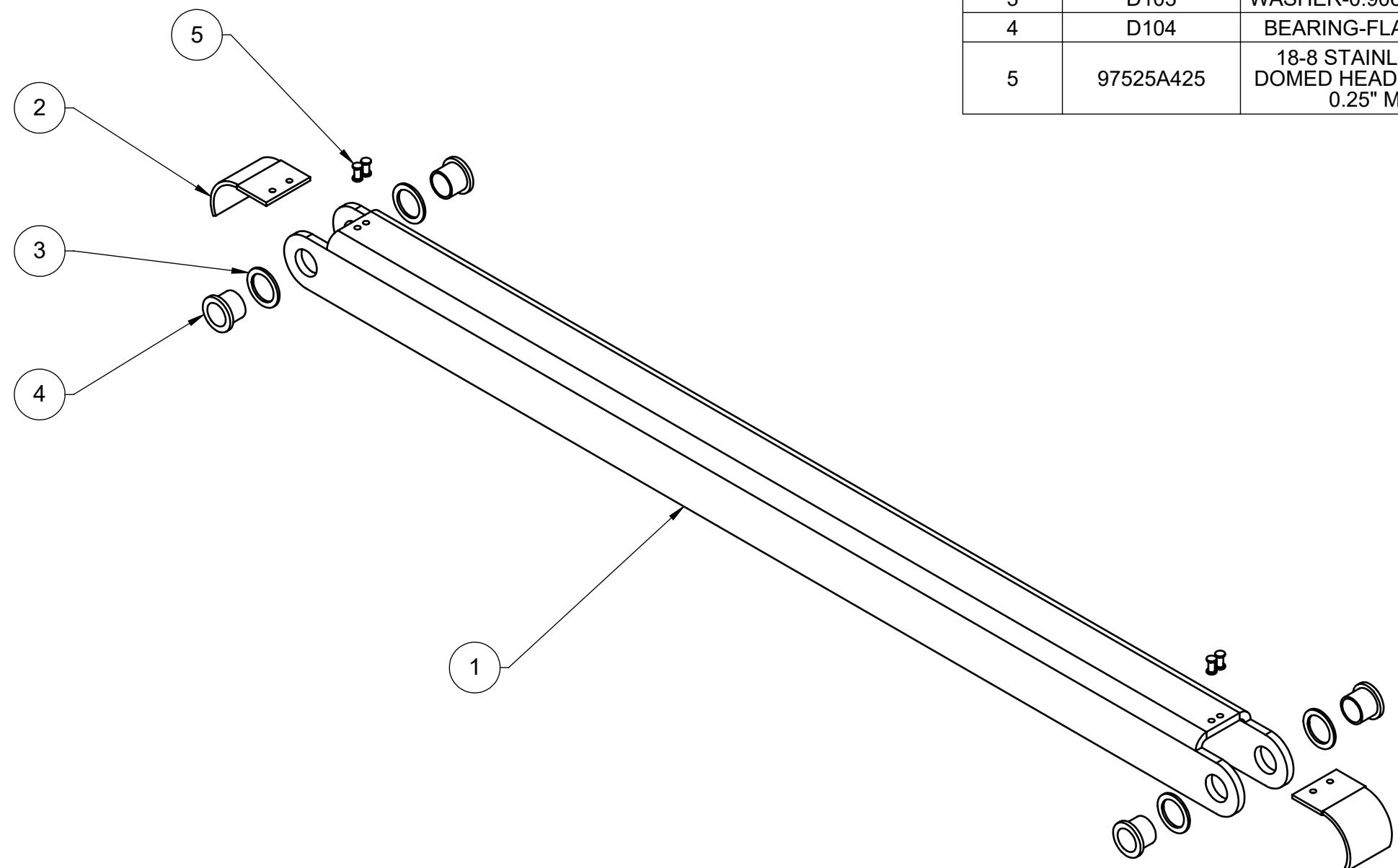
## DISPLACEMENT AND BOUNDARY

**EX100**

-

SIZE DRAWING NO  
**C**  
SCALE 1:8 WEIGHT g  
1 OF 1

**D****C****B****A**



ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	D101	ARM-PARALLEL TOP 48 IN FTG R	1
2	D102	CAP-PARALLEL ARM	2
3	D103	WASHER-0.906 ID X 1.23 OD X 0.075 TH ZINC	4
4	D104	BEARING-FLANGE-0.75 X 0.375 -12FDU06	4
5	97525A425	18-8 STAINLESS STEEL BLIND RIVETS, DOMED HEAD, 1/8" DIAMETER, FOR 0.188"- 0.25" MATERIAL THICKNESS	4

UNLESS OTHERWISE SPECIFIED  
DO NOT SCALE DRAWING  
INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES  
TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	$\pm 0.2$
1 PL DEC	$\pm 0.1$
2 PL DEC	$\pm 0.01$
3 PL DEC	$\pm 0.005$
ANGLES	$\pm .1^\circ$
SURFACE ROUGHNESS	$125 \mu\text{in}$

THIRD ANGLE PROJECTION



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ELECTRONICALLY BY THE DESIGN ACTIVITY

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CUSTOMER  
WHEELCHAIR USER

PROJECT  
WHEELCHAIR LIFT

DRAWN BY K. LEE	DATE 2019.06.08
CHECKED BY K. LEE	DATE 2019.06.08
APPROVED K. LEE	DATE 2019.06.08

**C** CONESTOGA  
Connect Life and Learning

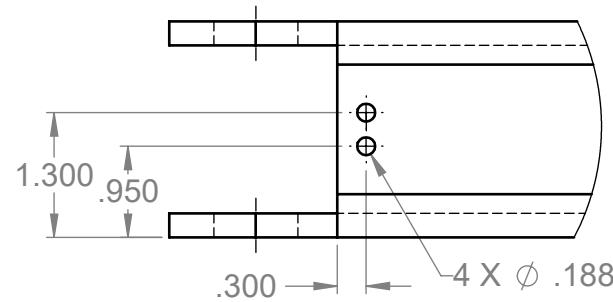
299 Doon Valley Drive, Kitchener, ON, N2G 4M4

## TOP PARALLEL ARM ASSEMBLY

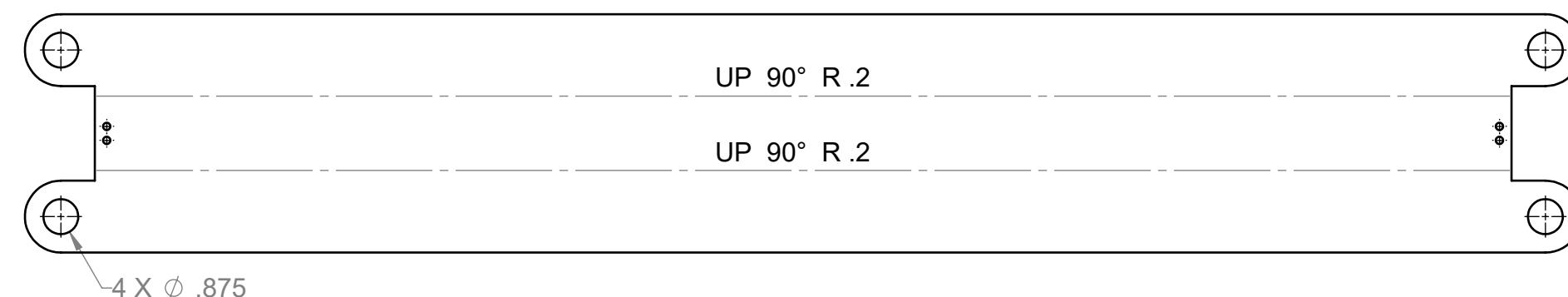
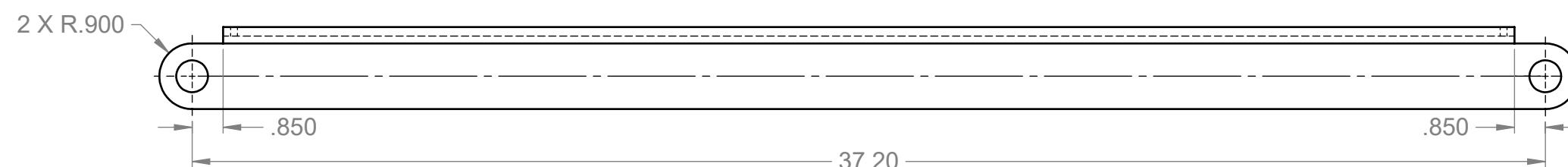
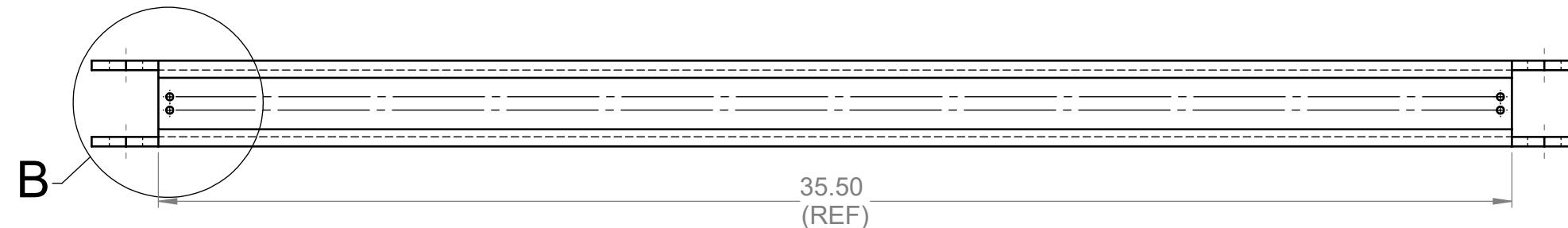
**B** **SA100**

-

1:4 **1 OF 1**



DETAIL B  
SCALE 1:2



NOTE:

1. THE PART IS SYMMETRICAL
2. THICKNESS IS .25 INCHES
3. MATERIAL: 1040 ANNEALED

UNLESS OTHERWISE SPECIFIED

DO NOT SCALE DRAWING

INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES

TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	$\pm 0.2$
1 PL DEC	$\pm 0.1$
2 PL DEC	$\pm 0.01$
3 PL DEC	$\pm 0.005$
ANGLES	$\pm .1^\circ$
SURFACE ROUGHNESS	125 $\mu$ in

THIRD ANGLE PROJECTION



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WHEELCHAIR USER

PROJECT

WHEELCHAIR LIFT

DRAWN BY K. LEE DATE 2019.06.08

CHECKED BY K. LEE DATE 2019.06.08

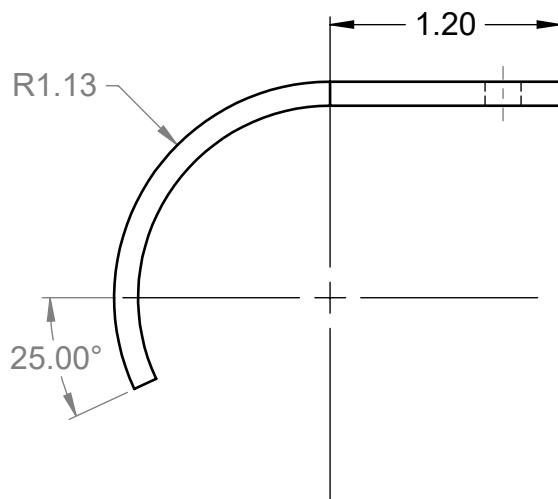
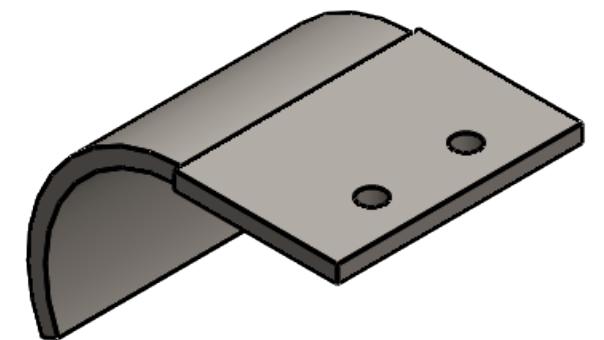
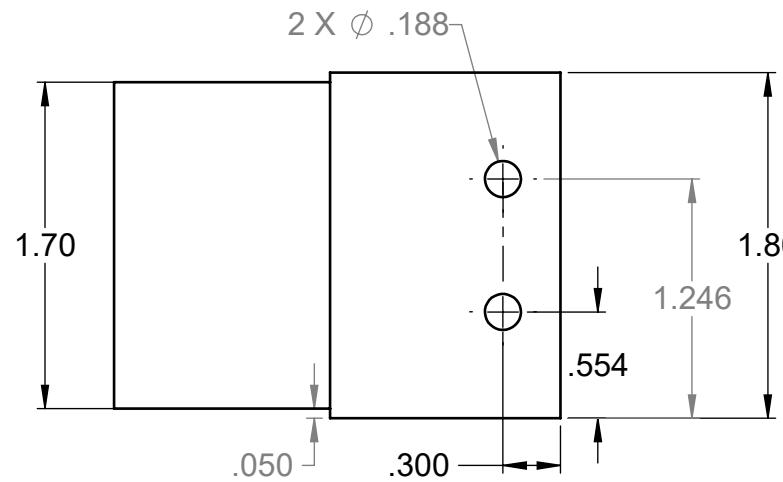
APPROVED K. LEE DATE 2019.06.08

**C** CONESTOGA  
Connect Life and Learning

299 Doon Valley Drive, Kitchener, ON, N2G 4M4

# TOP PARALLEL ARM

SIZE	DRAWING NO	REVISION
<b>B</b>	<b>D101</b>	-
1:4	WEIGHT lbs	1 OF 1



**NOTE:**

1. THICKNESS IS .125 INCHES
2. MATERIAL: 1040 ANNEALED

UNLESS OTHERWISE SPECIFIED

DO NOT SCALE DRAWING

INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES

TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	$\pm 0.2$
1 PL DEC	$\pm 0.1$
2 PL DEC	$\pm 0.01$
3 PL DEC	$\pm 0.005$
ANGLES	$\pm .1^\circ$
SURFACE ROUGHNESS	$125 \mu\text{in}$

SolidWorks MAINTAINED DATA  
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CUSTOMER

WHEELCHAIR USER

PROJECT

WHEELCHAIR LIFT

THIRD ANGLE PROJECTION



DRAWN BY  
K. LEE

DATE  
2019.06.08

CHECKED BY  
K. LEE

DATE  
2019.06.08

APPROVED  
K. LEE

DATE  
2019.06.08



299 Doon Valley Drive, Kitchener, ON, N2G 4M4

## TOP PARALLEL ARM CAP

SIZE  
**B**

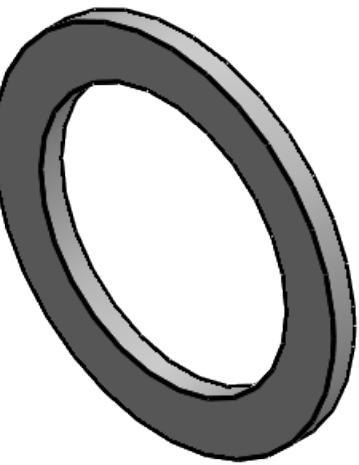
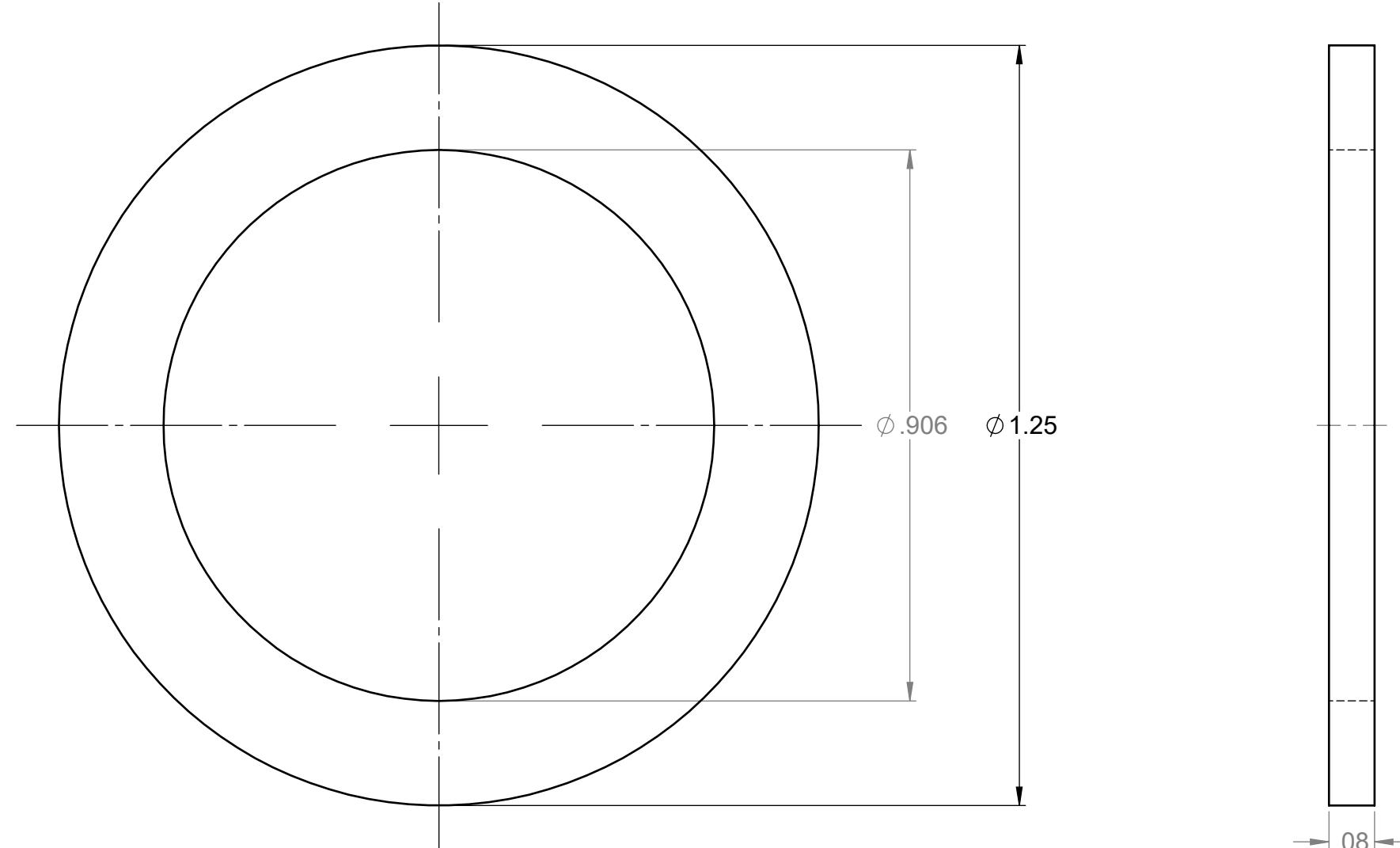
DRAWING NO  
**D102**

REVISION  
-

SCALE  
1:1

WEIGHT  
lbs

1 OF 1



UNLESS OTHERWISE SPECIFIED  
DO NOT SCALE DRAWING

INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES

TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	$\pm 0.2$
1 PL DEC	$\pm 0.1$
2 PL DEC	$\pm 0.01$
3 PL DEC	$\pm 0.005$
ANGLES	$\pm .1^\circ$
SURFACE ROUGHNESS	$125 \mu\text{in}$

THIRD ANGLE PROJECTION



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PROJECT

WHEELCHAIR LIFT

DRAWN BY

K. LEE

CHECKED BY

K. LEE

APPROVED

K. LEE

DATE

2019.06.08

DATE

2019.06.08

DATE

2019.06.08



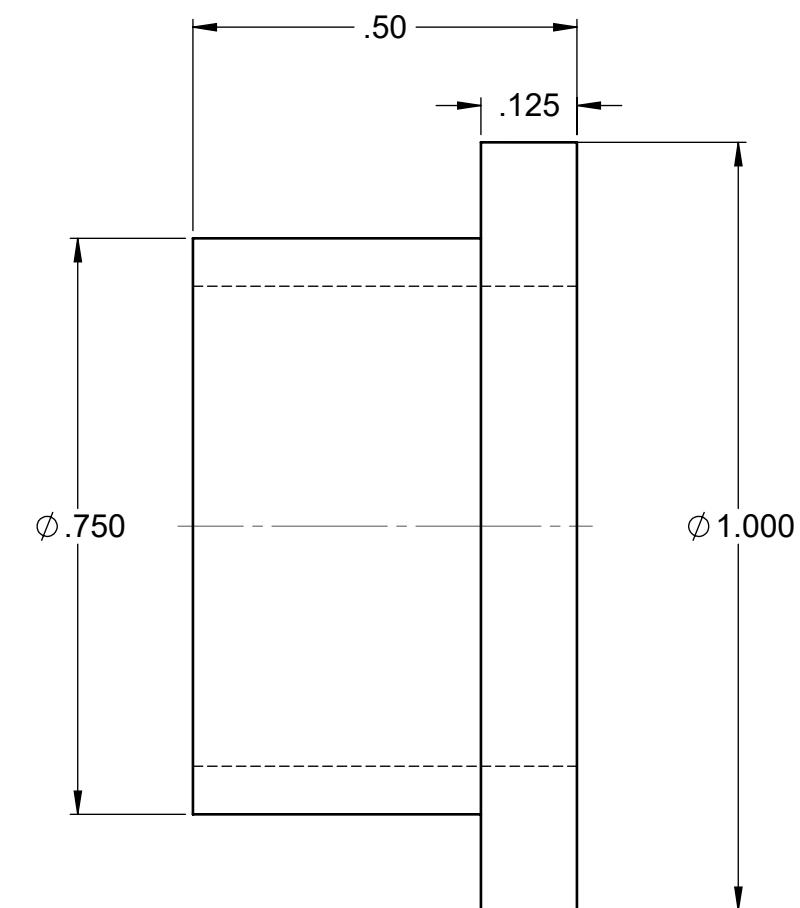
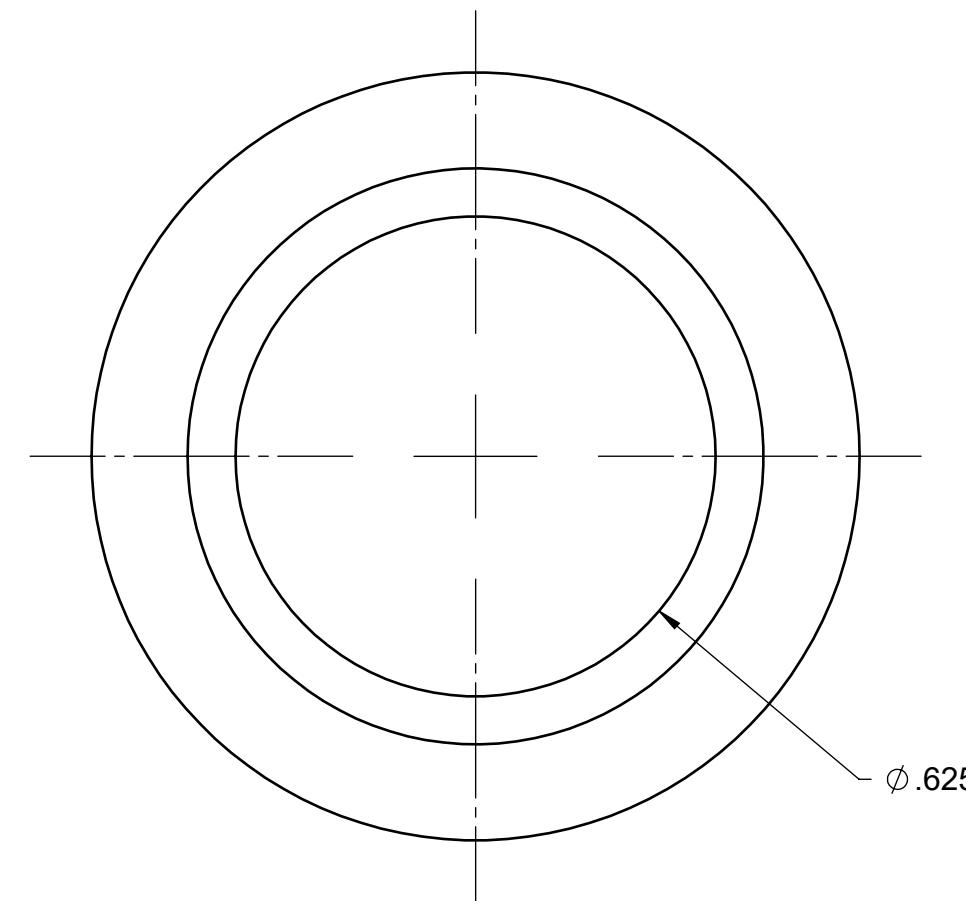
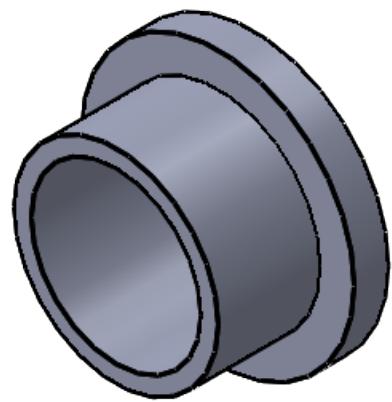
**CONESTOGA**  
Connect Life and Learning

299 Doon Valley Drive, Kitchener, ON, N2G 4M4

# WASHER .906 ID

NOTE:  
1. MATERIAL: 316 STAINLESS STEEL

DRAWING NO		REVISION
B	D103	-
SCALE	4:1	WEIGHT lbs
1 OF 1		



**NOTE:**  
1. MATERIAL: SAE 863 BRONZE

UNLESS OTHERWISE SPECIFIED  
DO NOT SCALE DRAWING

INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES

TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	± 0.2
1 PL DEC	± 0.1
2 PL DEC	± 0.01
3 PL DEC	± 0.005
ANGLES	± 1°
SURFACE ROUGHNESS	125 $\mu$ in

THIRD ANGLE PROJECTION



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WHEELCHAIR USER

PROJECT

WHEELCHAIR LIFT

DRAWN BY

K. LEE

DATE

2019.06.08

CHECKED BY

K. LEE

DATE

2019.06.08

APPROVED

K. LEE

DATE

2019.06.08



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299 Doon Valley Drive, Kitchener, ON, N2G 4M4

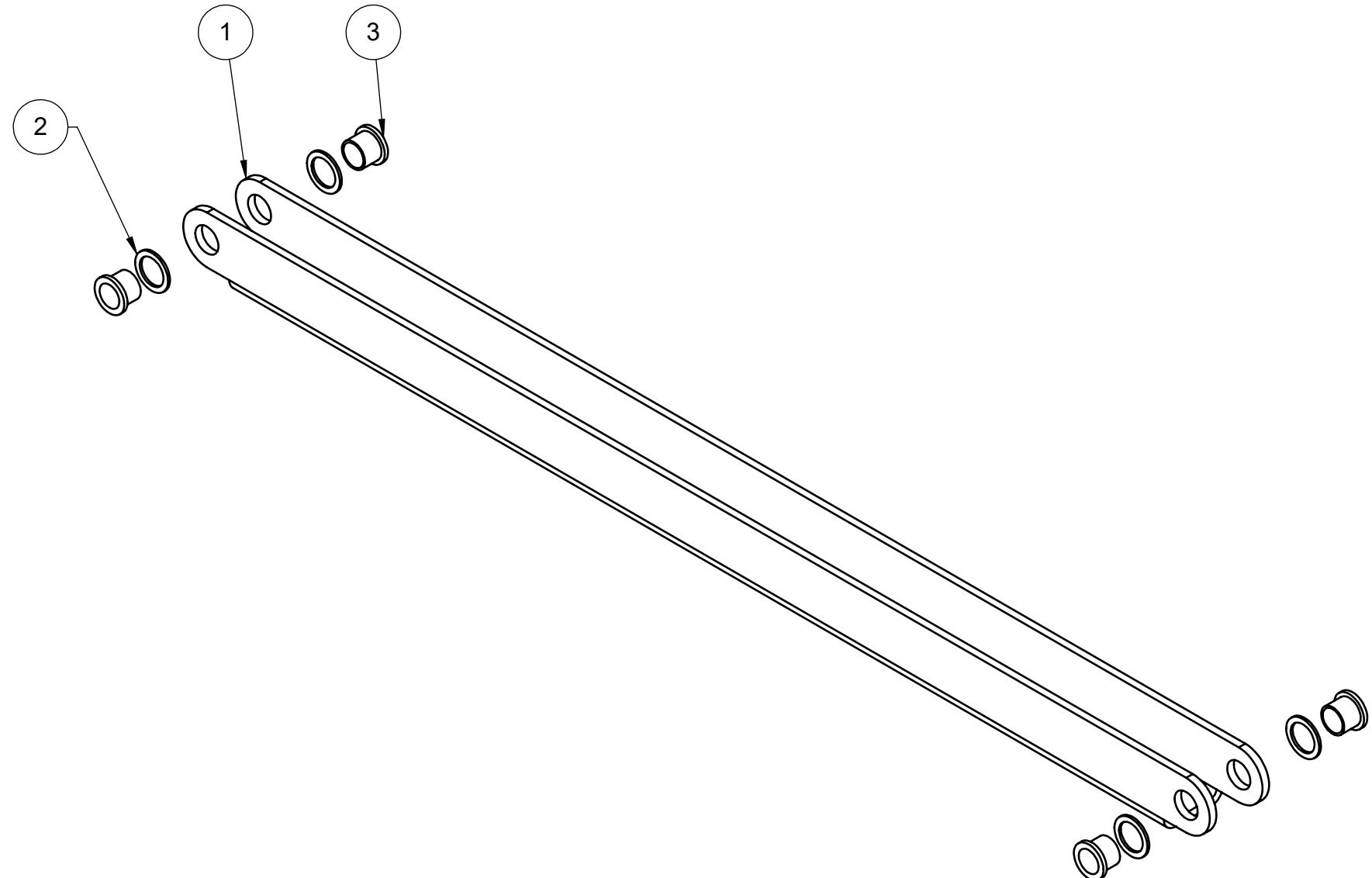
# BEARING FLANGE

**D104**

-

SIZE	DRAWING NO	REVISION
<b>B</b>		
SCALE 4:1	WEIGHT lbs	1 OF 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	D201	ARM-PARALLEL BOTTOM	1
2	D103	WASHER-0.906 ID X 1.23 OD X 0.075 TH ZINC	4
3	D104	BEARING-FLANGE-0.75 X 0.375 -12FDU06	4



UNLESS OTHERWISE SPECIFIED  
DO NOT SCALE DRAWING  
INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994  
DIMENSIONS ARE IN INCHES  
TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	$\pm 0.2$
1 PL DEC	$\pm 0.1$
2 PL DEC	$\pm 0.01$
3 PL DEC	$\pm 0.005$
ANGLES	$\pm .1^\circ$
SURFACE ROUGHNESS	$125 \mu\text{in}$

THIRD ANGLE PROJECTION

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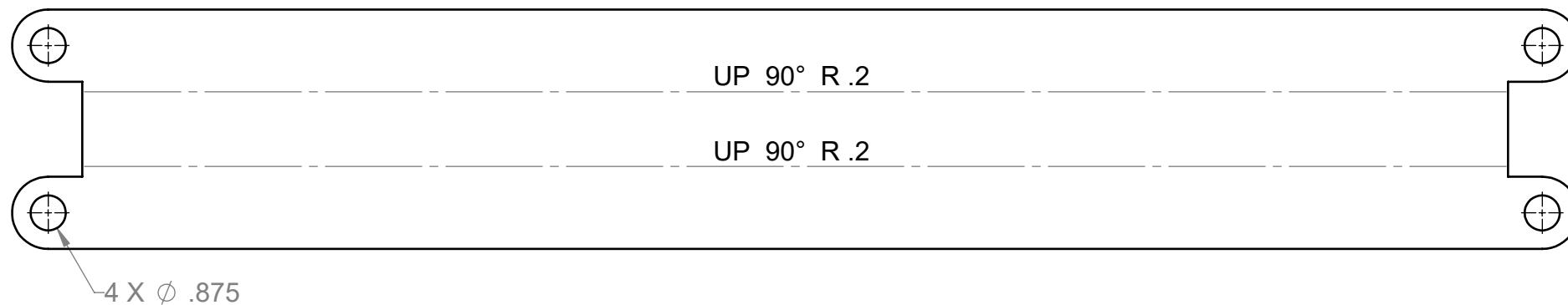
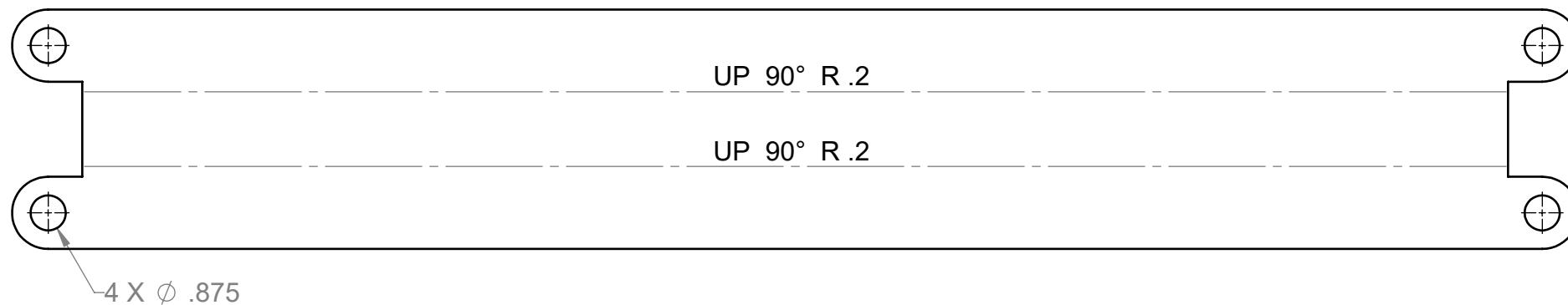
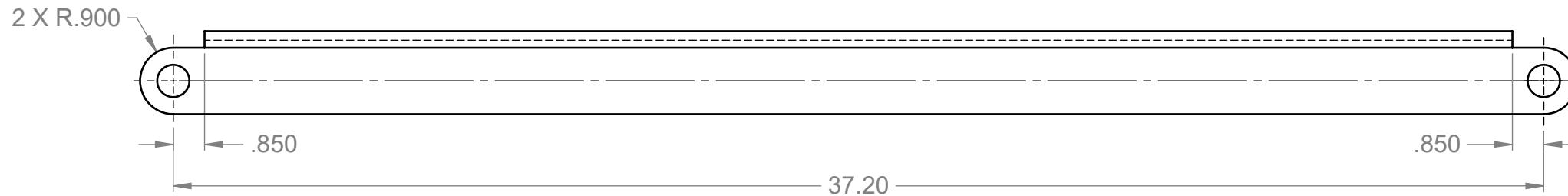
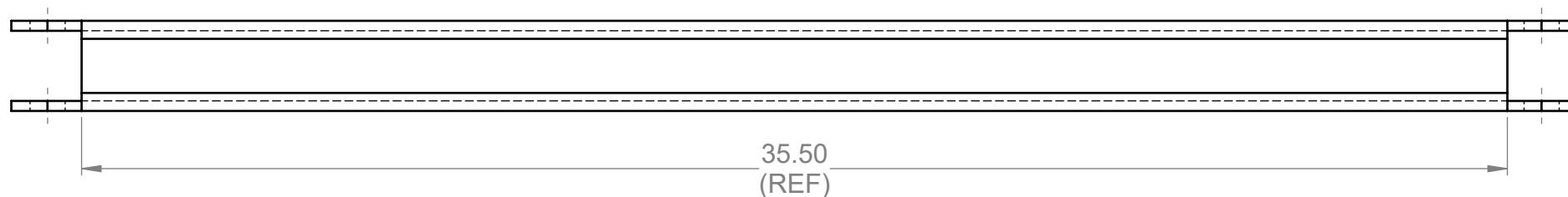
CUSTOMER WHEELCHAIR USER
PROJECT WHEELCHAIR LIFT

DRAWN BY  
K. LEE  
DATE  
2019.06.08

CHECKED BY  
K. LEE  
DATE  
2019.06.08

APPROVED  
K. LEE  
DATE  
2019.06.08

**C** CONESTOGA  
Connect Life and Learning  
299 Doon Valley Drive, Kitchener, ON, N2G 4M4  
TITLE  
**BOTTOM PARALLEL ARM ASSEMBLY**  
SIZE      DRAWING NO  
**B**      **SA200**      REVISION  
SCALE      1:4      WEIGHT      lbs      1 OF 1



**NOTE:**

1. THE PART IS SYMMETRICAL
2. THICKNESS IS .25 INCHES
3. MATERIAL: 1040 ANNEALED

UNLESS OTHERWISE SPECIFIED  
DO NOT SCALE DRAWING

INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES

TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	± 0.2
1 PL DEC	± 0.1
2 PL DEC	± 0.01
3 PL DEC	± 0.005
ANGLES	± 1°
SURFACE ROUGHNESS	125 µ in

THIRD ANGLE PROJECTION



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CUSTOMER

WHEELCHAIR USER

PROJECT

WHEELCHAIR LIFT

DRAWN BY

K. LEE

DATE

2019.06.08

CHECKED BY

K. LEE

DATE

2019.06.08

APPROVED

K. LEE

DATE

2019.06.08

**C** CONESTOGA  
Connect Life and Learning

299 Doon Valley Drive, Kitchener, ON, N2G 4M4

## BOTTOM PARALLER ARM

**B**

DRAWING NO

**D201**

REVISION

-

SCALE

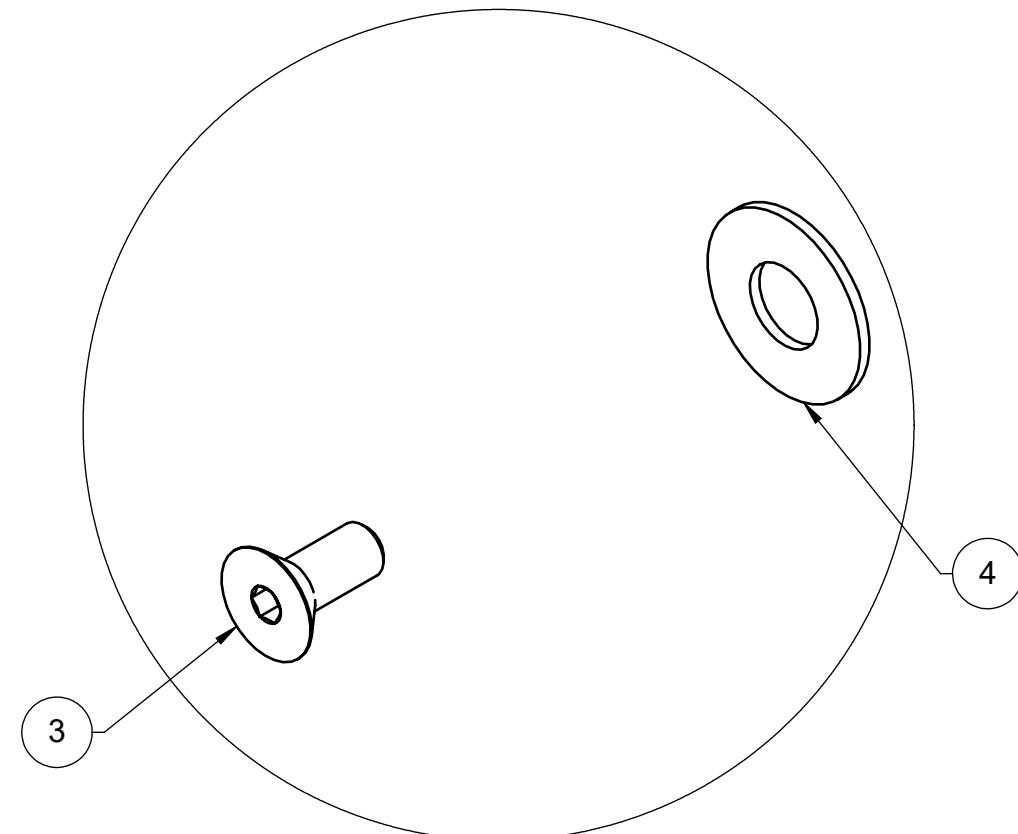
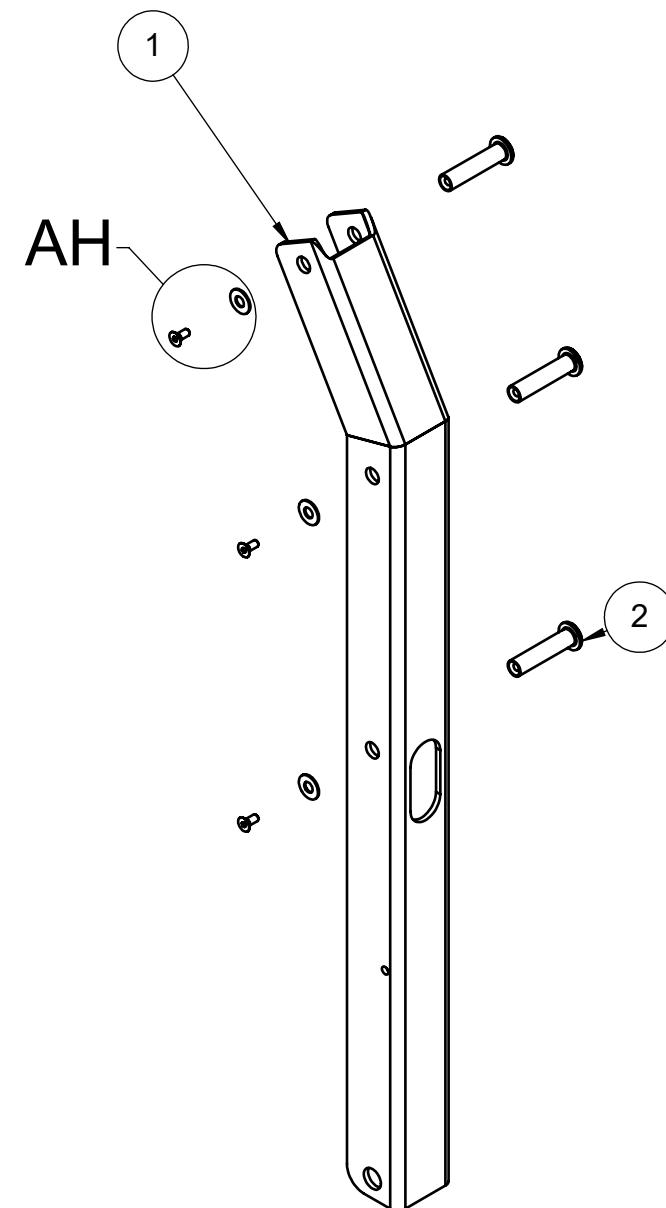
1:4

WEIGHT

lbs

1 OF 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	WA301	VERTICAL ARM WELDMENT ASSEMBLY	1
2	D801	PIN TYPE 1	3
3	91253A581	BLACK-OXIDE ALLOY STEEL HEX DRIVE FLAT HEAD SCREW, 5/16"-18 THREAD SIZE, 3/4" LONG	3
4	92141A032	18-8 STAINLESS STEEL WASHER FOR 7/16" SCREW SIZE, 0.5" ID, 1.125" OD	3



DETAIL AH  
SCALE 1 : 1

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DO NOT SCALE DRAWING  
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PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES  
TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	$\pm 0.2$
1 PL DEC	$\pm 0.1$
2 PL DEC	$\pm 0.01$
3 PL DEC	$\pm 0.005$
ANGLES	$\pm .1^\circ$
SURFACE ROUGHNESS	125 $\mu$ in

THIRD ANGLE PROJECTION



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CUSTOMER  
WHEELCHAIR USER

PROJECT  
WHEELCHAIR LIFT

DRAWN BY

K. LEE

CHECKED BY

K. LEE

APPROVED

K. LEE

DATE

2019.06.08

DATE

2019.06.08

DATE

2019.06.08



CONESTOGA  
Connect Life and Learning

299 Doon Valley Drive, Kitchener, ON, N2G 4M4

**VERTICAL ARM ASSEMBLY (LEFT)**

DRAWING NO  
**B**

**SA300-01**

REVISION  
-

SCALE

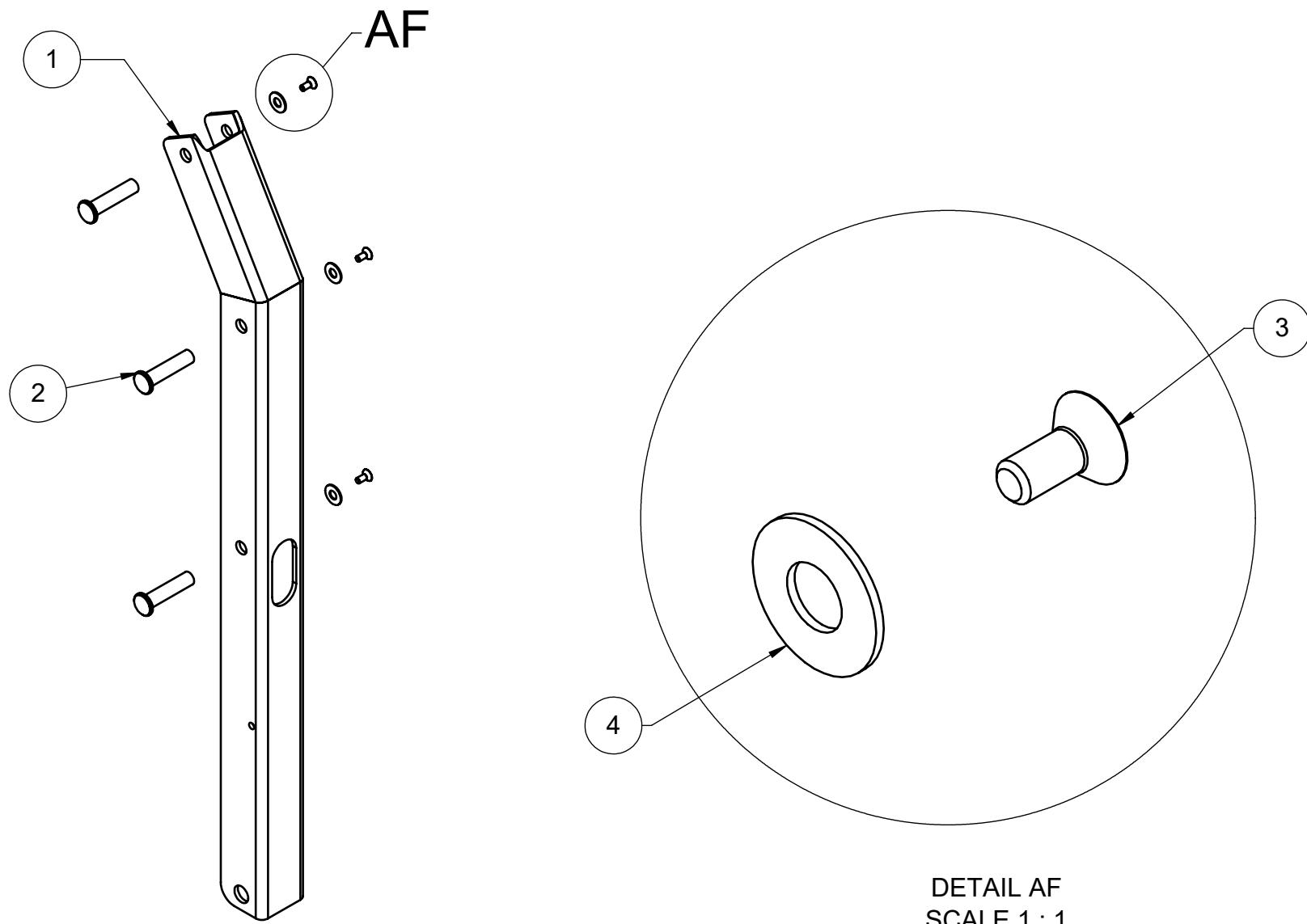
1:8

WEIGHT

lbs

1 OF 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	WA301	VERTICAL ARM WELDMENT ASSEMBLY	1
2	D801	PIN TYPE 1	3
3	91253A581	BLACK-OXIDE ALLOY STEEL HEX DRIVE FLAT HEAD SCREW, 5/16"-18 THREAD SIZE, 3/4" LONG	3
4	92141A032	18-8 STAINLESS STEEL WASHER FOR 7/16" SCREW SIZE, 0.5" ID, 1.125" OD	3



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DO NOT SCALE DRAWING  
INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES  
TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	$\pm 0.2$
1 PL DEC	$\pm 0.1$
2 PL DEC	$\pm 0.01$
3 PL DEC	$\pm 0.005$
ANGLES	$\pm .1^\circ$
SURFACE ROUGHNESS	125 $\mu$ in

THIRD ANGLE PROJECTION



SolidWorks MAINTAINED DATA  
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CUSTOMER

WHEELCHAIR USER

PROJECT

WHEELCHAIR LIFT

DRAWN BY

K. LEE

CHECKED BY

K. LEE

APPROVED

K. LEE

DATE

2019.06.08

DATE

2019.06.08

DATE

2019.06.08



299 Doon Valley Drive, Kitchener, ON, N2G 4M4

**VERTICAL ARM ASSEMBLY (RIGHT)**

B | DRAWING NO

SA300-02

REVISION

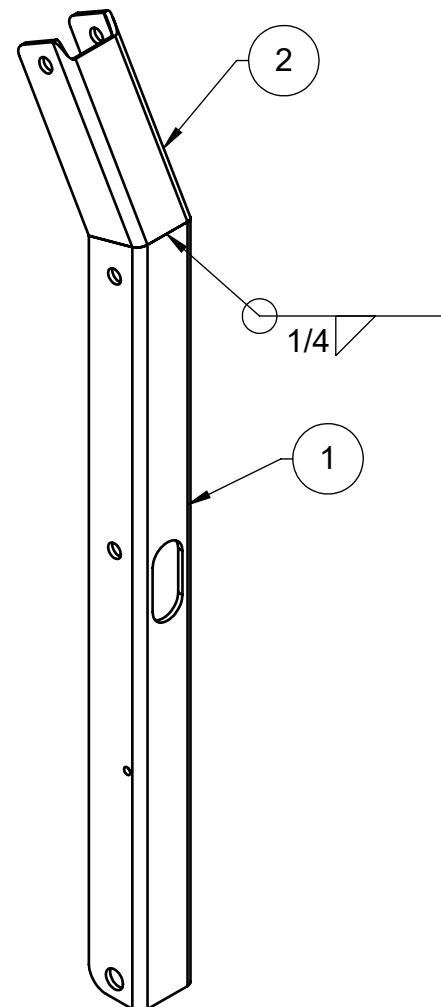
-

SCALE 1:8

WEIGHT lbs

1 OF 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	D301-01	VMT-VERTICAL CHANNEL PART 1	1
2	D301-02	VMT-VERTICAL CHANNEL PART 2	1



UNLESS OTHERWISE SPECIFIED  
DO NOT SCALE DRAWING  
INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994  
DIMENSIONS ARE IN INCHES  
TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	$\pm 0.2$
1 PL DEC	$\pm 0.1$
2 PL DEC	$\pm 0.01$
3 PL DEC	$\pm 0.005$
ANGLES	$\pm .1^\circ$
SURFACE ROUGHNESS	$125 \mu\text{in}$

THIRD ANGLE PROJECTION



SolidWorks MAINTAINED DATA  
CHANGES SHALL BE INCORPORATED  
ELECTRONICALLY BY THE DESIGN ACTIVITY

**PROPRIETARY**

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Conestoga College

CUSTOMER  
WHEELCHAIR USER

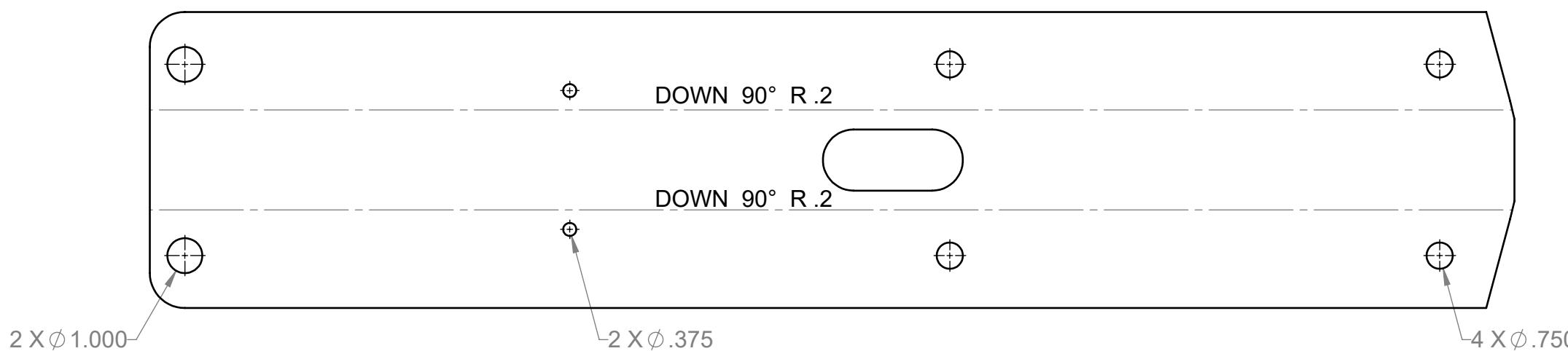
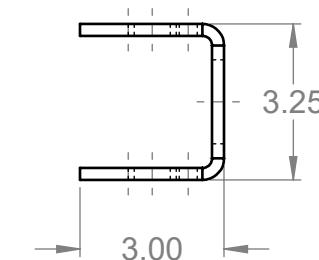
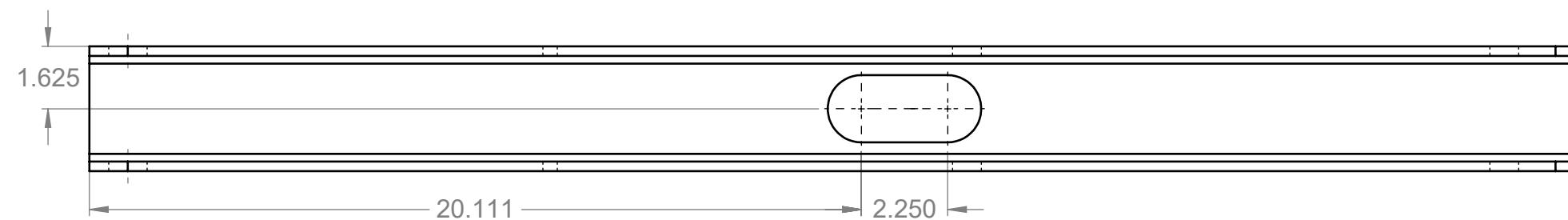
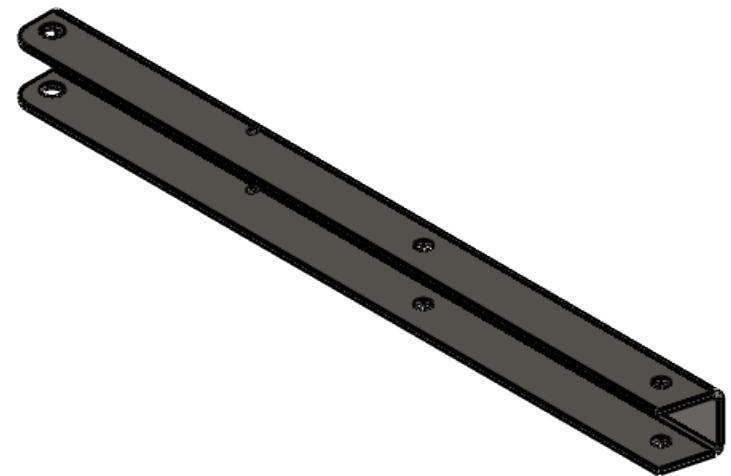
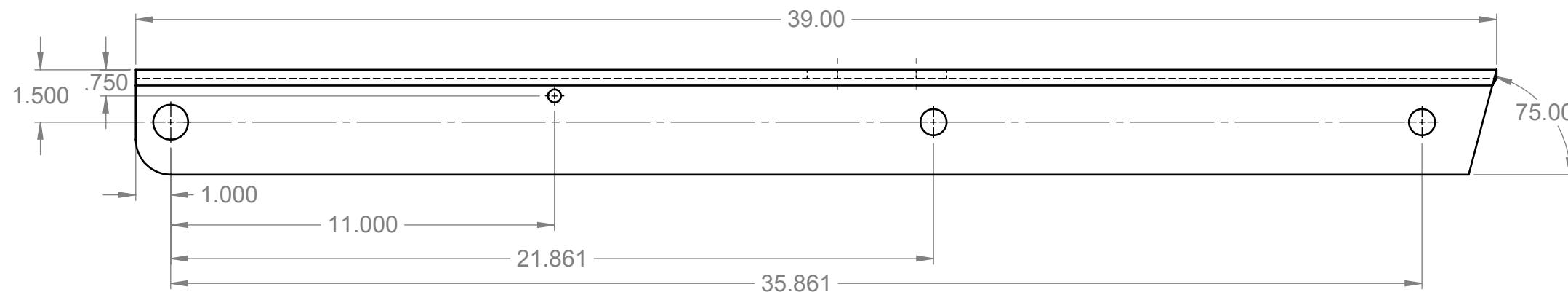
PROJECT  
WHEELCHAIR LIFT

DRAWN BY K. LEE	DATE 2019.06.08
CHECKED BY K. LEE	DATE 2019.06.08
APPROVED K. LEE	DATE 2019.06.08

**C** CONESTOGA  
Connect Life and Learning 299 Doon Valley Drive, Kitchener, ON, N2G 4M4

**VERTICAL ARM WELDMENT ASSEMBLY**

SIZE <b>B</b>	DRAWING NO <b>WA301</b>	REVISION -



- NOTE:**
1. THICKNESS IS .25 INCHES
  2. MATERIAL: 1040 ANNEALED

UNLESS OTHERWISE SPECIFIED

DO NOT SCALE DRAWING

INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES

TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	$\pm 0.2$
1 PL DEC	$\pm 0.1$
2 PL DEC	$\pm 0.01$
3 PL DEC	$\pm 0.005$
ANGLES	$\pm 1^\circ$
SURFACE ROUGHNESS	125 $\mu$ in

SolidWorks MAINTAINED DATA  
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ELECTRONICALLY BY THE DESIGN ACTIVITY

PROPRIETARY

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CUSTOMER

WHEELCHAIR USER

PROJECT

WHEELCHAIR LIFT

THIRD ANGLE PROJECTION



DRAWN BY K. LEE	DATE 2019.06.08
CHECKED BY K. LEE	DATE 2019.06.08
APPROVED K. LEE	DATE 2019.06.08

**C** CONESTOGA  
Connect Life and Learning

299 Doon Valley Drive, Kitchener, ON, N2G 4M4

**VERTICAL CHANNEL PART 1**

**B**

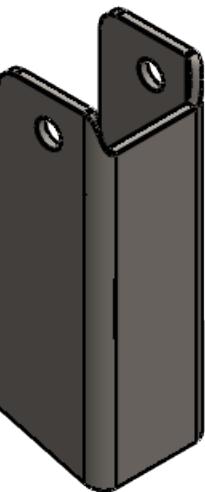
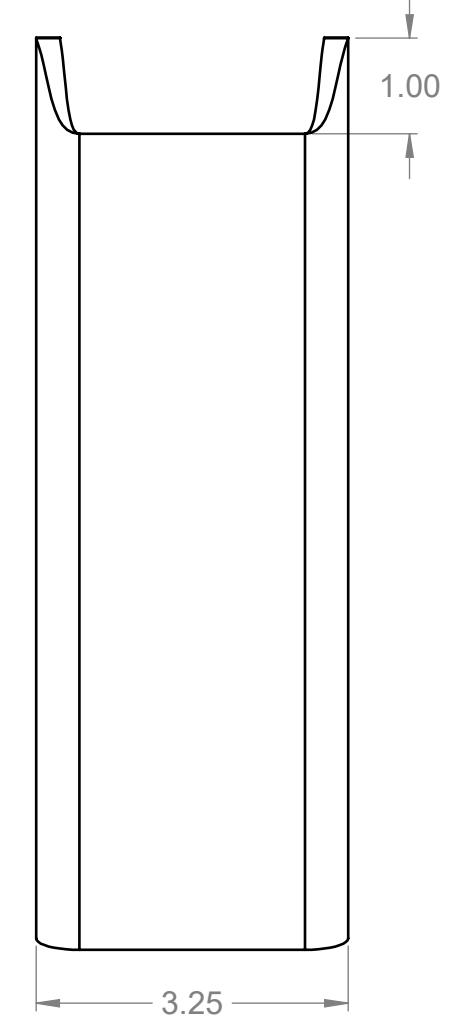
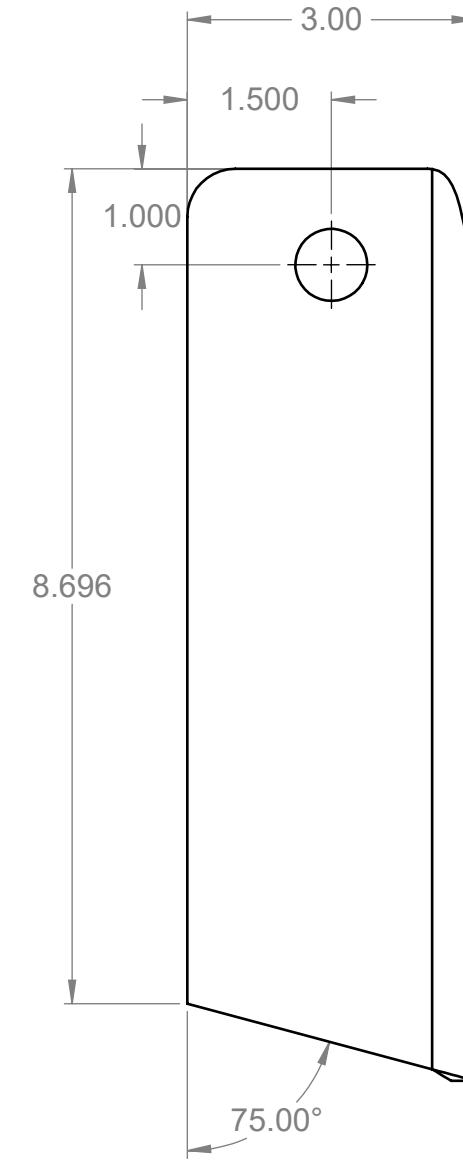
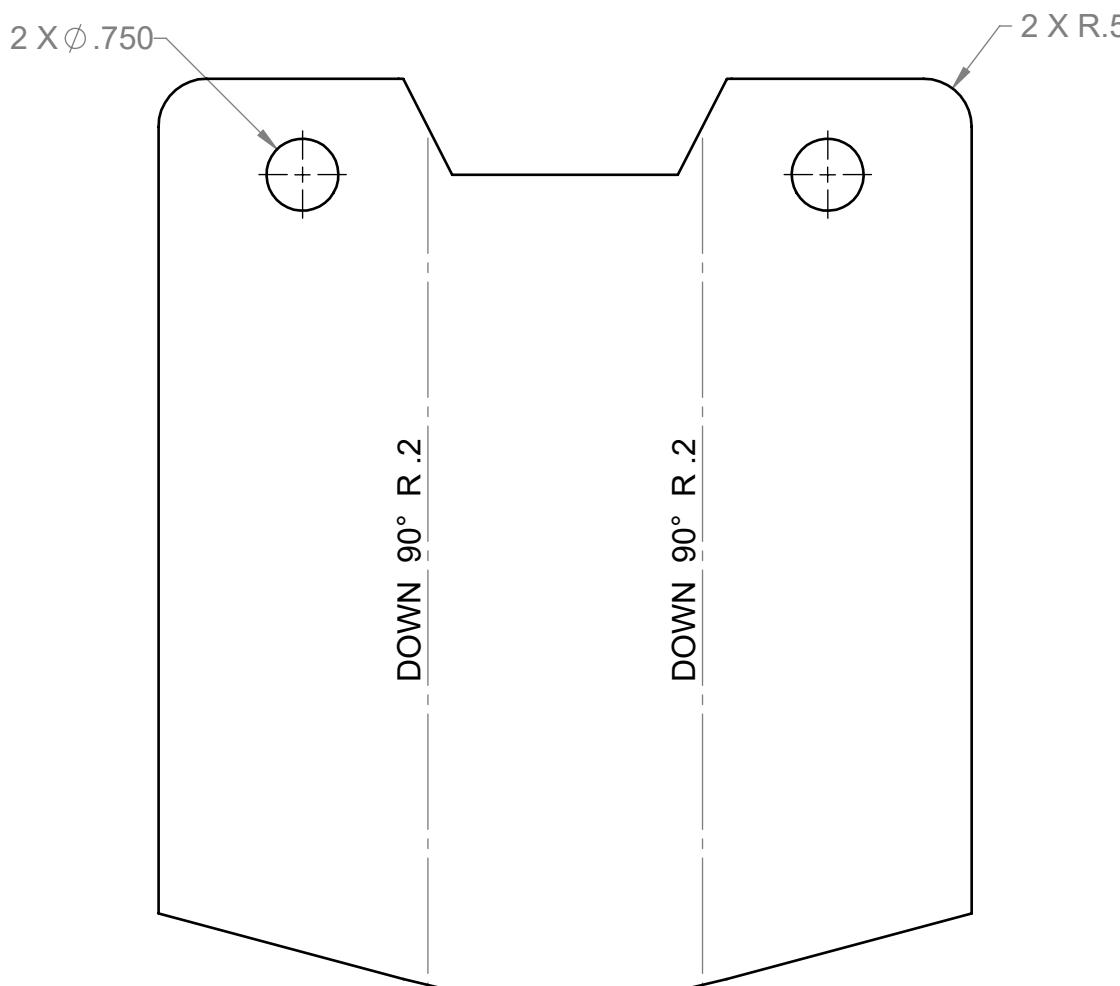
**D301-01**

-

SCALE  
1:4

WEIGHT  
lbs

1 OF 1



**NOTE:**

1. THICKNESS IS .25 INCHES
2. MATERIAL: 1040 ANNEALED

UNLESS OTHERWISE SPECIFIED

DO NOT SCALE DRAWING

INTERPRET DIMENSIONS AND TOLERANCES

PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES

TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC       $\pm 0.2$

1 PL DEC       $\pm 0.1$

2 PL DEC       $\pm 0.01$

3 PL DEC       $\pm 0.005$

ANGLES       $\pm .1^\circ$

SURFACE ROUGHNESS       $125 \mu\text{in}$

SolidWorks MAINTAINED DATA  
CHANGES SHALL BE INCORPORATED  
ELECTRONICALLY BY THE DESIGN ACTIVITY

PROPRIETARY

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CUSTOMER

WHEELCHAIR USER

PROJECT

WHEELCHAIR LIFT

THIRD ANGLE PROJECTION



DRAWN BY  
K. LEE

DATE  
2019.06.08

CHECKED BY  
K. LEE

DATE  
2019.06.08

APPROVED  
K. LEE

DATE  
2019.06.08

**C** CONESTOGA  
Connect Life and Learning

299 Doon Valley Drive, Kitchener, ON, N2G 4M4

TITLE

## VERTICAL CHANNEL PART 2

**B** DRAWING NO

**D301-02**

REVISION

-

SCALE 1:2

WEIGHT lbs

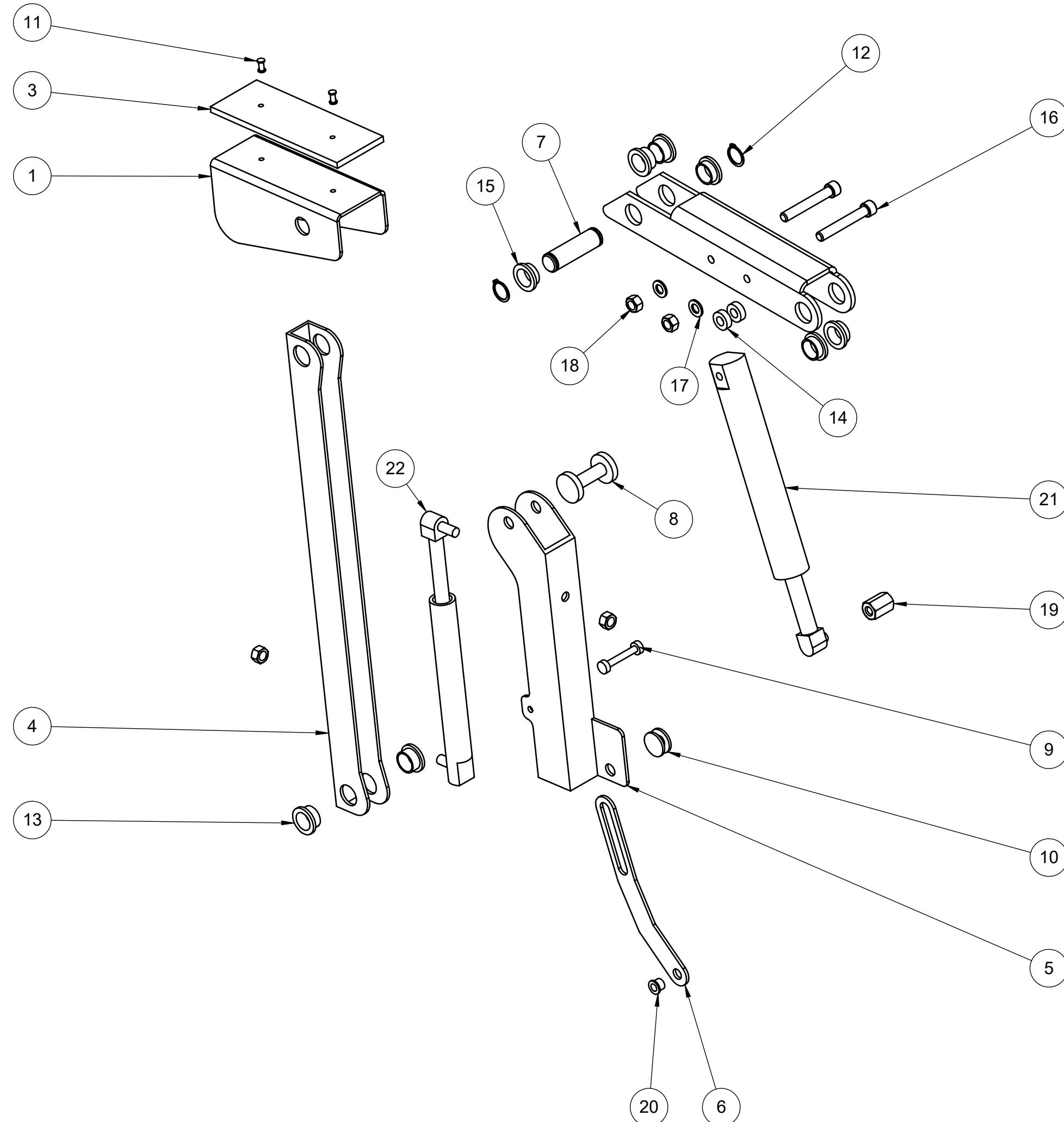
1 OF 1

D

C

B

A



ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	D402	ROTATING PIVOT SLIDE ARM PART 1	1
2	D403	ROTATING PIVOT SLIDE ARM PART 2	1
3	D404	SLIDE-UHMW-PLATFORM SLIDE	1
4	D405	OUTER FOLD ARM	1
5	D406-02	(LEFT) INNER FOLD ARM	1
6	D407	HANDRAIL SLOT	1
7	D803	PIN TYPE 3	1
8	6831K17	SHAFT-MOUNT FLAT TRACK ROLLER WITHOUT SEAL, 1-3/4" ROLLER DIAMETER, 1" ROLLER WIDTH	1
9	3689K18	SHAFT-MOUNT CROWNED TRACK ROLLER, 1-5/8" ROLLER DIAMETER, 7/8" ROLLER WIDTH	1
10	93120A115	BARRELS FOR 1" MATERIAL THICKNESS FOR PLASTIC PRESS-FIT LOW-PROFILE BINDING POST	1
11	97525A425	18-8 STAINLESS STEEL BLIND RIVETS, DOMED HEAD, 1/8" DIAMETER, FOR 0.188"-0.25" MATERIAL THICKNESS	2
12	97633A250	EXTERNAL RETAINING RING FOR 3/4" OD, BLACK-PHOSPHATE 1060-1090 SPRING STEEL	2
13	6338K429	OIL-EMBEDDED FLANGED SLEEVE BEARING, 3/4" SHAFT, 7/8" HOUSING ID, 1/2" LONG, 1-1/8" FLANGE OD	4
14	92320A396	18-8 STAINLESS STEEL UNTHEADED SPACER, 3/4" OD, 1/4" LONG, FOR 3/8" SCREW SIZE	2
15	1677K15	ULTRA-LOW-FRICTION OIL-EMBEDDED SLEEVE BEARING, FLANGED, FOR 3/4" SHAFT DIAMETER, 1/2" LONG	4
16	90044A148	BLACK-OXIDE ALLOY STEEL SOCKET HEAD SCREW, 3/8"-16 THREAD SIZE, 2-1/2" LONG, FULLY THREADED	2
17	91922A306	STEEL MIL. SPEC. WASHER, CADMIUM-PLATED, 3/8" SCREW SIZE, MS-20002-6	2
18	94191A300	MIL. SPEC. HIGH-STRENGTH STEEL HEX NUT, GRADE 8, 3/8"-16 THREAD SIZE, MS-51967-9	4
19	91034A110	LOW-STRENGTH STEEL COUPLING NUT, BLACK-OXIDE, 3/8"-16 THREAD SIZE	1
20	6338K453	OIL-EMBEDDED FLANGED SLEEVE BEARING FOR 5/16" SHAFT DIAMETER AND 7/16" HOUSING ID, 3/8" LONG	1
21	GAS SPRING ASSEMBLY	GAS SPRING, 15.24" EXTENDED LENGTH	1
22	GAS SPRING ASSEMBLY (TYPE3)	GAS SPRING, 12.2" EXTENDED LENGTH	1

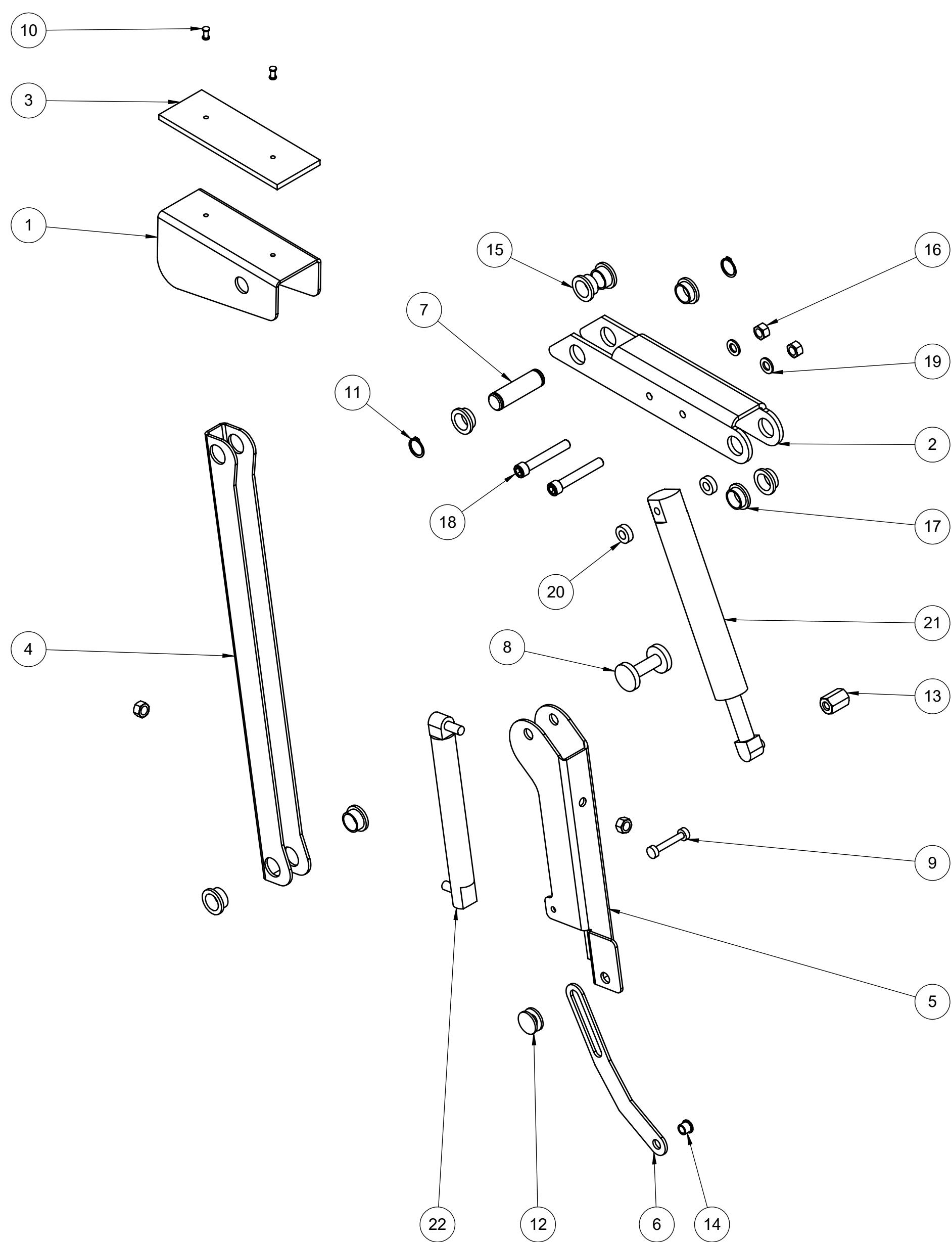
UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994		SolidWorks MAINTAINED DATA CHANGES SHALL BE INCORPORATED ELECTRONICALLY BY THE DESIGN ACTIVITY	
DIMENSIONS ARE IN INCHES TOLERANCES APPLY AS SHOWN BELOW		PROPRIETARY NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM, WITHOUT THE WRITTEN PERMISSION OF Conestoga College.	
0 PL DEC $\pm 0.03$ 1 PL DEC $\pm 0.02$ 2 PL DEC $\pm 0.01$ 3 PL DEC $\pm 0.005$ ANGLES SURFACE ROUGHNESS $125 \mu\text{in}$		CUSTOMER WHEELCHAIR USER PROJECT WHEELCHAIR LIFT	
THIRD ANGLE PROJECTION		DRAWN BY K. LEE	DATE 2019.06.08
		CHECKED BY K. LEE	DATE 2019.06.08
		APPROVED K. LEE	DATE 2019.06.08
		SIZE   DRAWING NO C   SA400-01	
		SCALE 1:4	WEIGHT g 1 OF 1

D

C

B

A

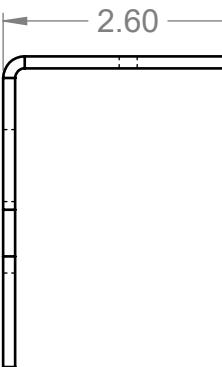
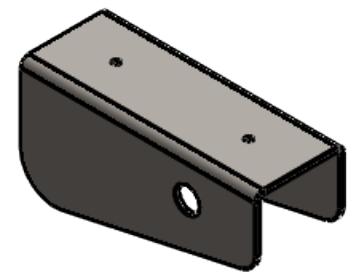
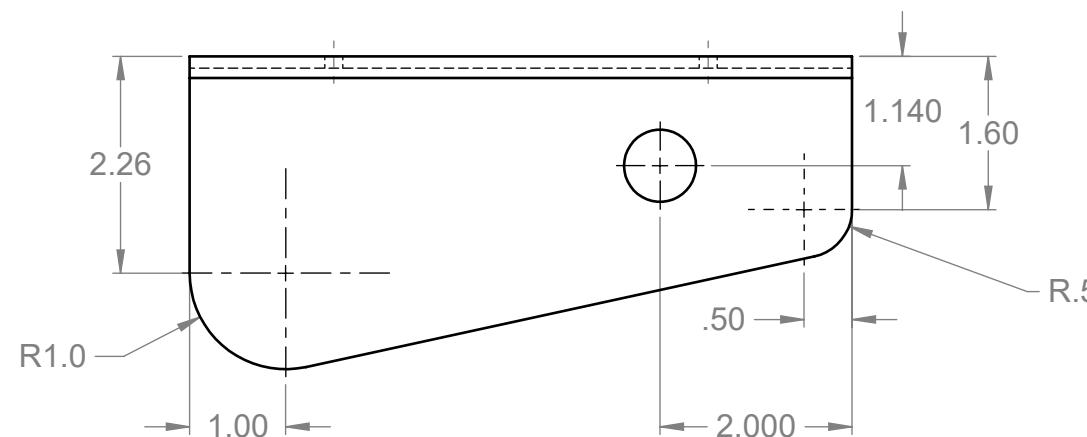
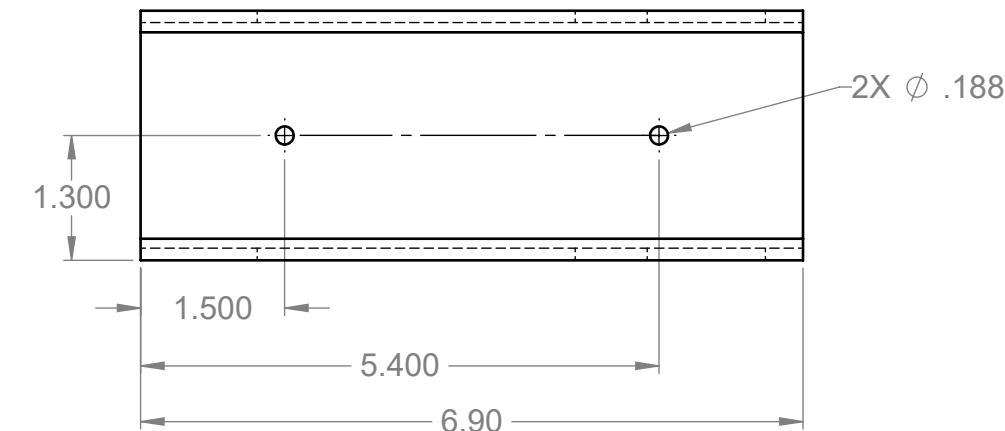
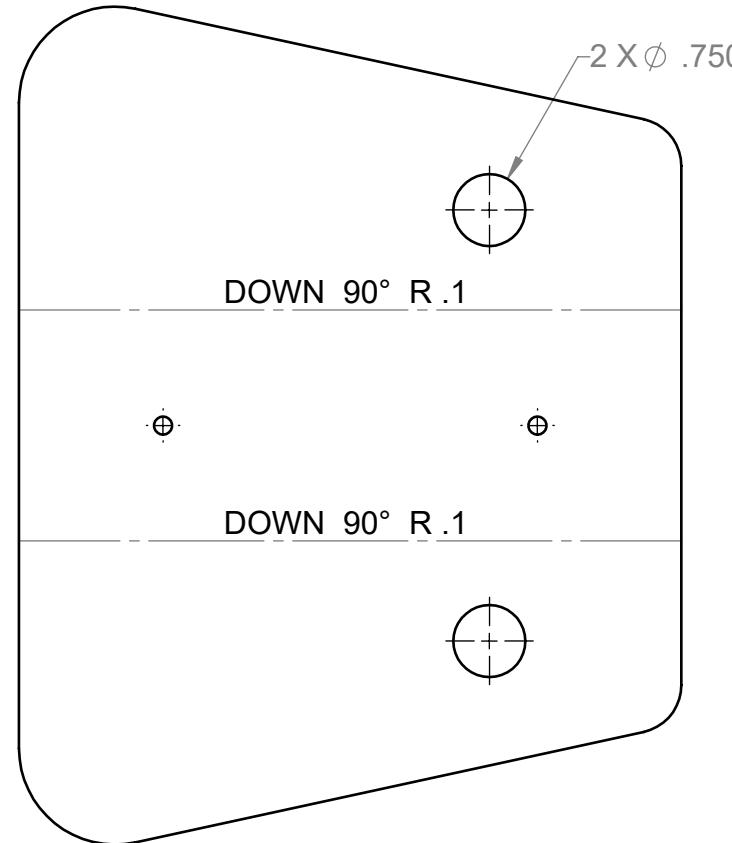
**D****C****B****A**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	D402	ROTATING PIVOT SLIDE ARM PART 1	1
2	D403	ROTATING PIVOT SLIDE ARM PART 2	1
3	D404	SLIDE-UHMW-PLATFORM SLIDE	1
4	D405	OUTER FOLD ARM	1
5	D406-01	INNER FOLD ARM TYPE 1	1
6	D407	HANDRAIL SLOT	1
7	D803	PIN TYPE 3	1
8	6831K17	SHAFT-MOUNT FLAT TRACK ROLLER WITHOUT SEAL, 1-3/4" ROLLER DIAMETER, 1" ROLLER WIDTH	1
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21	GAS SPRING ASSEMBLY	GAS SPRING, 15.24" EXTENDED LENGTH	1
22	GAS SPRING ASSEMBLY (TYPE3)	GAS SPRING, 12.2" EXTENDED LENGTH	1

UNLESS OTHERWISE SPECIFIED  
DO NOT SCALE DRAWING  
INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994  
DIMENSIONS ARE IN INCHES  
TOLERANCES APPLY AS SHOWN BELOW  
0 PL DEC       $\pm 0.03$   
1 PL DEC       $\pm 0.02$   
2 PL DEC       $\pm 0.01$   
3 PL DEC       $\pm 0.005$   
ANGLES       $\pm 0.5^\circ$   
SURFACE ROUGHNESS       $125 \mu\text{in}$

SolidWorks MAINTAINED DATA  
CHANGES SHALL BE INCORPORATED  
ELECTRONICALLY BY THE DESIGN ACTIVITY  
**PROPRIETARY**  
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IN ANY FORM, WITHOUT THE WRITTEN PERMISSION OF  
Conestoga College.  
CUSTOMER  
WHEELCHAIR USER  
PROJECT  
WHEELCHAIR LIFT

**C** CONESTOGA  
Connect Life and Learning  
299 Doon Valley Drive, Kitchener, ON, N2G 4M4  
TITLE  
**PIVOT ARM ASSEMBLY (RIGHT)**  
DRAWN BY  
K. LEE  
DATE  
2019.06.08  
CHECKED BY  
K. LEE  
DATE  
2019.06.08  
APPROVED  
K. LEE  
DATE  
2019.06.08  
SIZE  
DRAWING NO  
**C** **SA400-02**  
SCALE  
1:4  
WEIGHT  
g  
1 OF 1  
REVISION  
-



**NOTE:**

1. THICKNESS IS .125 INCHES
2. MATERIAL: 1040 ANNEALED

UNLESS OTHERWISE SPECIFIED  
DO NOT SCALE DRAWING

INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES

TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	$\pm 0.2$
1 PL DEC	$\pm 0.1$
2 PL DEC	$\pm 0.01$
3 PL DEC	$\pm 0.005$
ANGLES	$\pm .1^\circ$
SURFACE ROUGHNESS	125 $\mu$ in

SolidWorks MAINTAINED DATA  
CHANGES SHALL BE INCORPORATED  
ELECTRONICALLY BY THE DESIGN ACTIVITY

PROPRIETARY

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ANY FORM, WITHOUT THE WRITTEN PERMISSION OF  
Conestoga College

CUSTOMER

WHEELCHAIR USER

PROJECT

WHEELCHAIR LIFT

THIRD ANGLE PROJECTION



DRAWN BY  
K. LEE

DATE  
2019.06.08

CHECKED BY  
K. LEE

DATE  
2019.06.08

APPROVED  
K. LEE

DATE  
2019.06.08

**C** CONESTOGA  
Connect Life and Learning

299 Doon Valley Drive, Kitchener, ON, N2G 4M4

TITLE

## ROTATING PIVOT SLIDE ARM PART 1

SIZE  
**B**

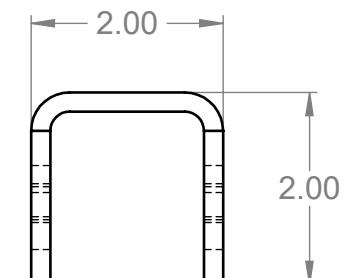
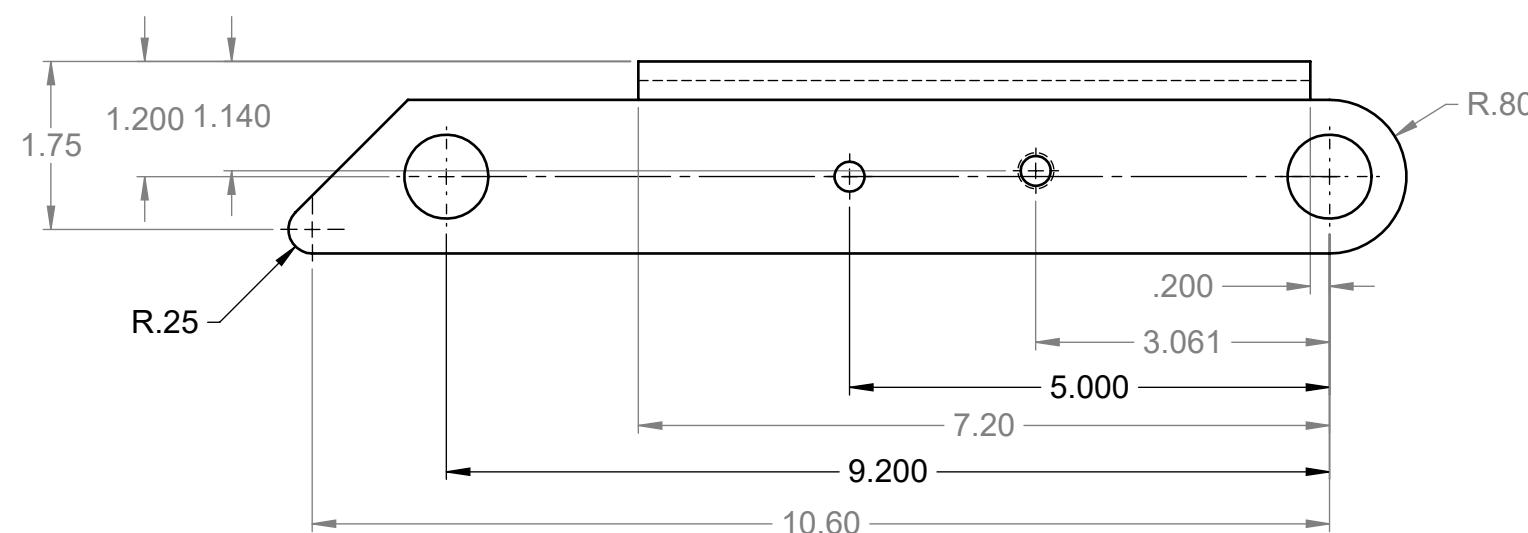
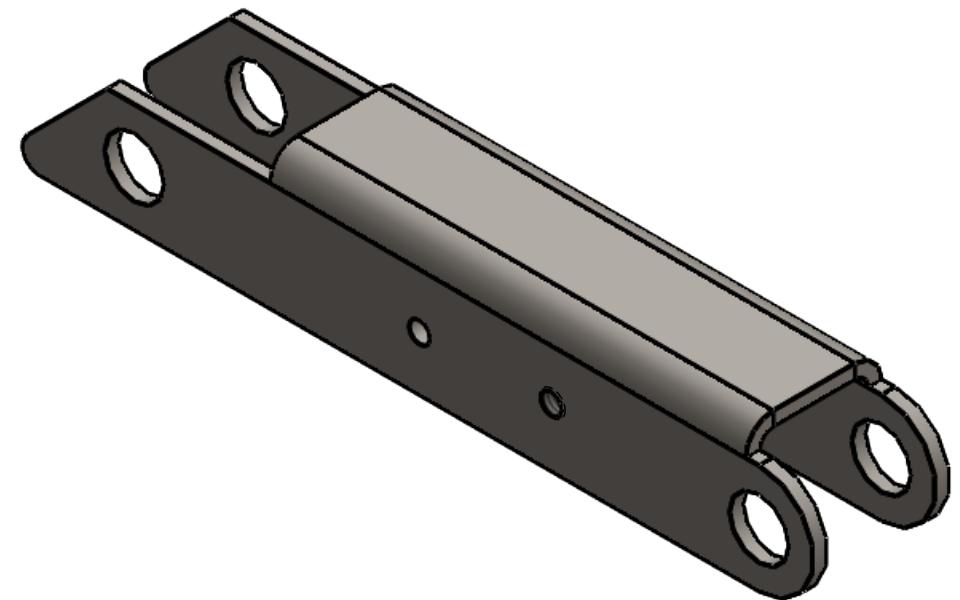
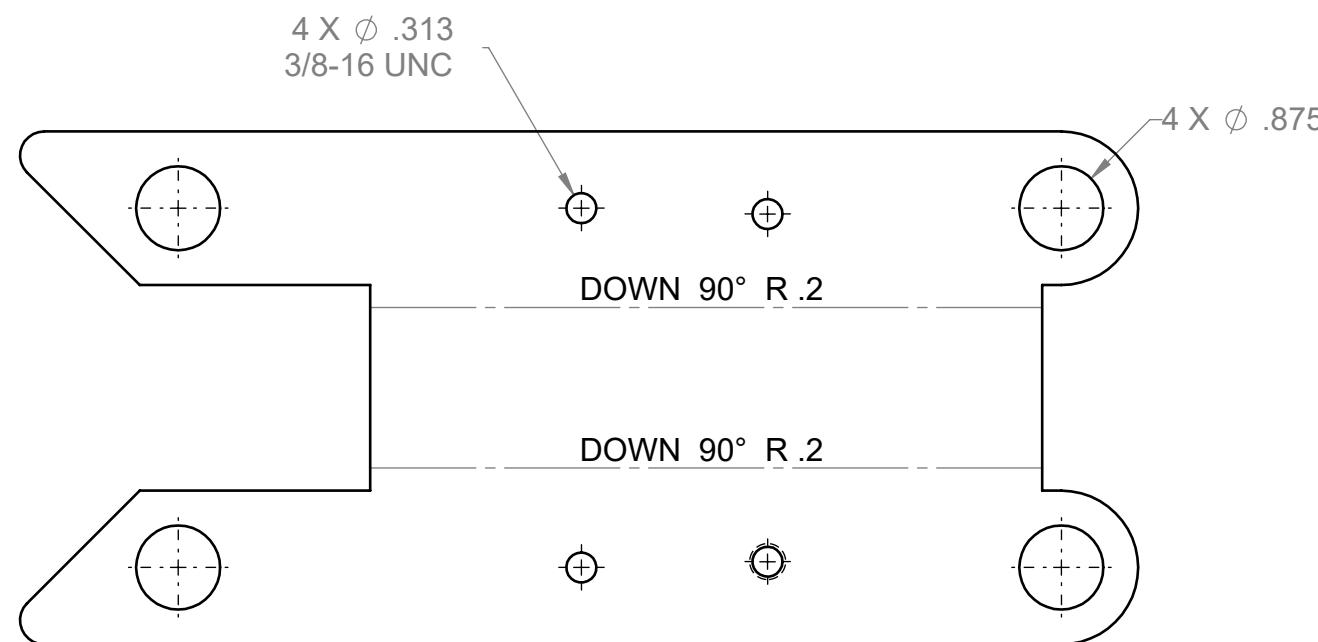
DRAWING NO  
**D402**

REVISION  
-

SCALE  
1:2

WEIGHT  
lbs

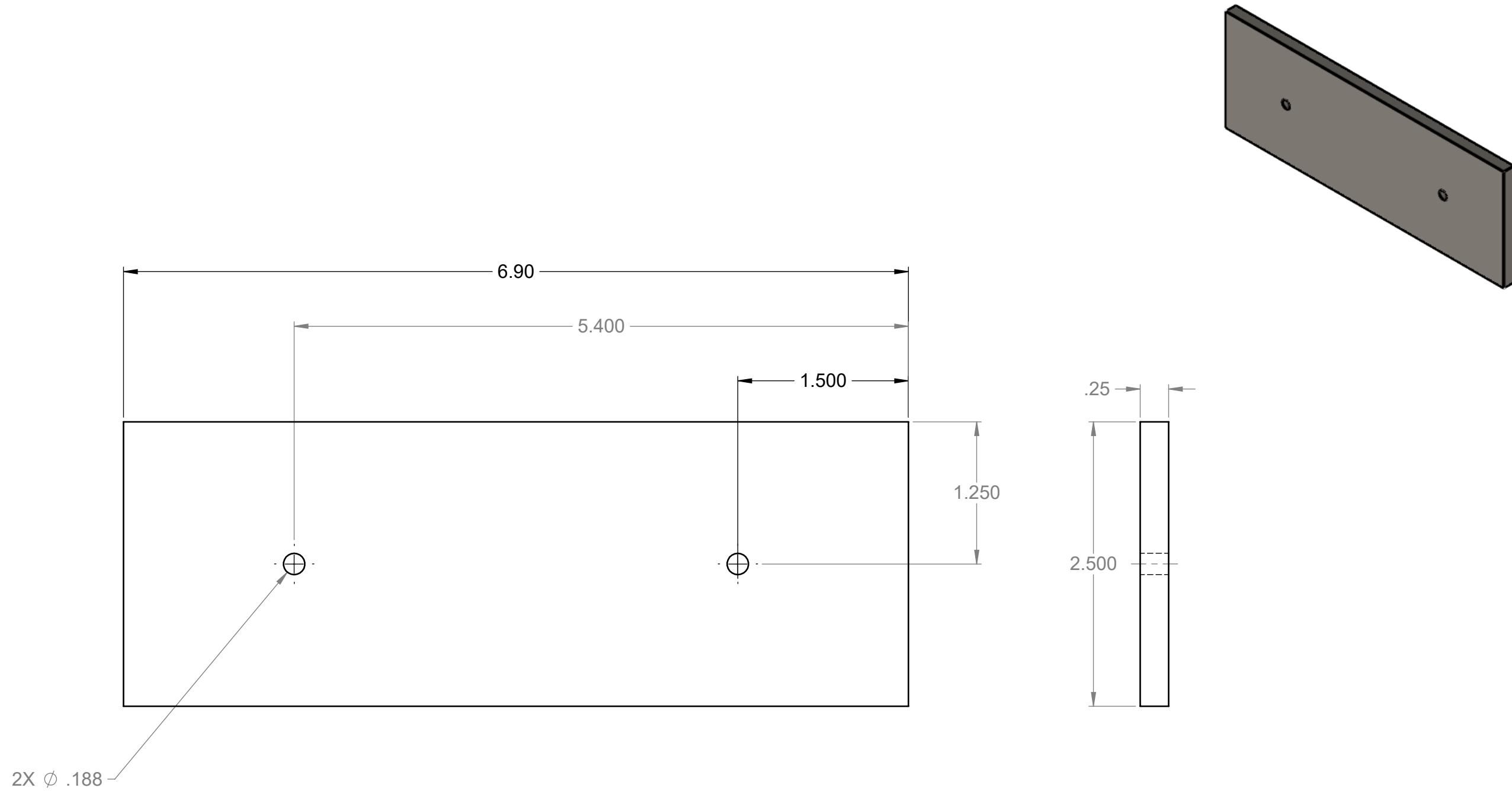
1 OF 1



- NOTE:**
1. THICKNESS IS .125 INCHES
  2. MATERIAL: 1040 ANNEALED

UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994 DIMENSIONS ARE IN INCHES TOLERANCES APPLY AS SHOWN BELOW	
0 PL DEC $\pm 0.2$ 1 PL DEC $\pm 0.1$ 2 PL DEC $\pm 0.01$ 3 PL DEC $\pm 0.005$ ANGLES $\pm .1^\circ$ SURFACE ROUGHNESS $125 \mu\text{in}$	
<b>PROPRIETARY</b> NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM, WITHOUT THE WRITTEN PERMISSION OF Conestoga College	
CUSTOMER WHEELCHAIR USER PROJECT WHEELCHAIR LIFT	
DRAWN BY K. LEE      DATE 2019.06.08 CHECKED BY K. LEE      DATE 2019.06.08 APPROVED K. LEE      DATE 2019.06.08	
<b>THIRD ANGLE PROJECTION</b>	

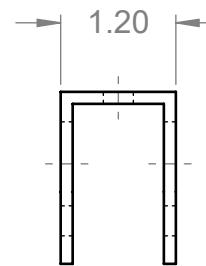
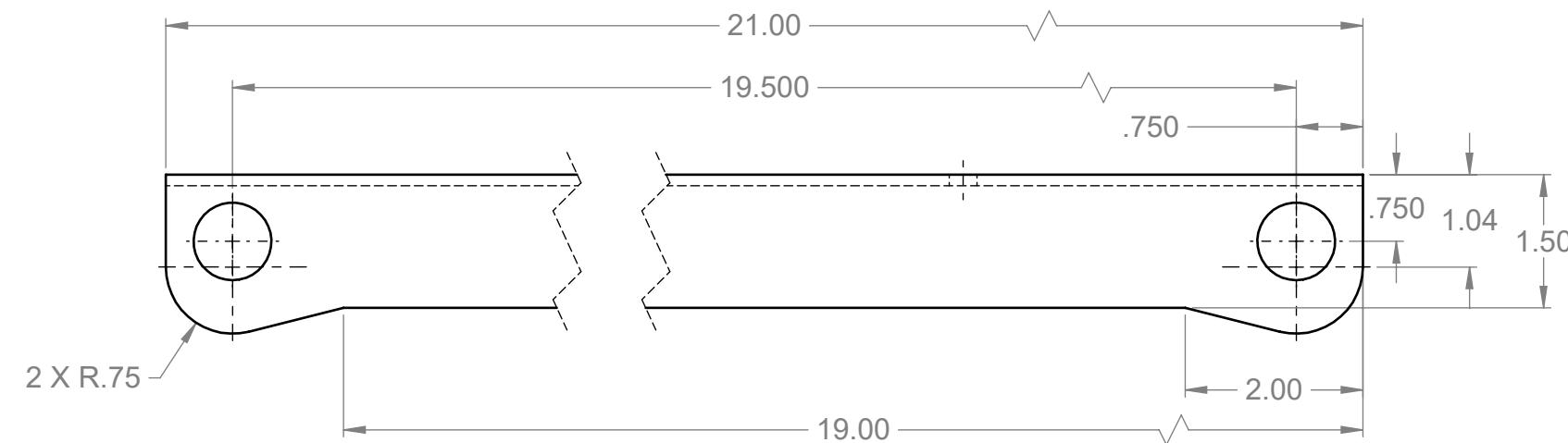
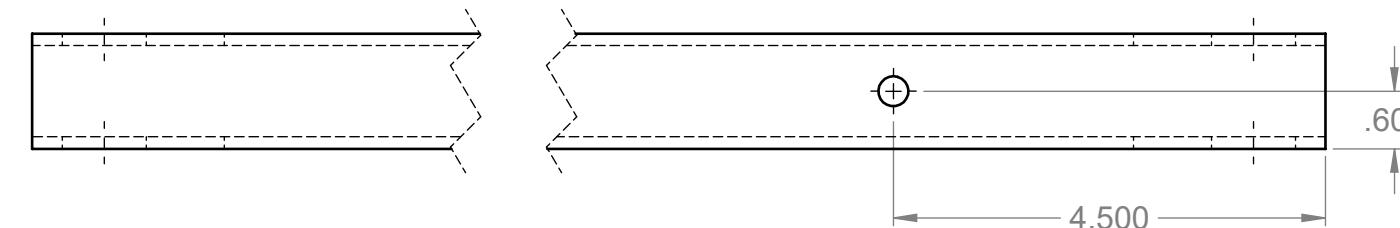
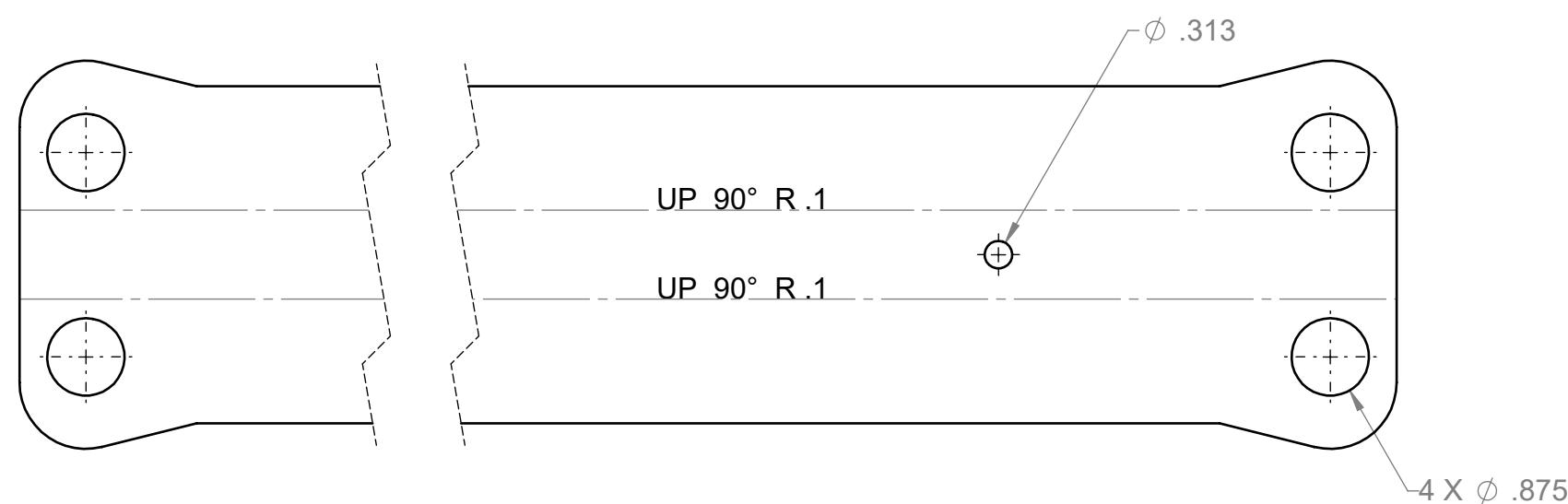
<b>C</b> CONESTOGA Connect Life and Learning		299 Doon Valley Drive, Kitchener, ON, N2G 4M4
<b>ROTATING PIVOT SLIDE ARM PART 2</b>		
SIZE <b>B</b>	DRAWING NO <b>D403</b>	REVISION -
SCALE 1:2	WEIGHT lbs	1 OF 1



**NOTE:**

1. THICKNESS IS .25 INCHES
2. MATERIAL: 1040 ANNEALED

<b>UNLESS OTHERWISE SPECIFIED</b> DO NOT SCALE DRAWING INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994 DIMENSIONS ARE IN INCHES TOLERANCES APPLY AS SHOWN BELOW <table border="1"> <tr><td>0 PL DEC</td><td><math>\pm 0.2</math></td></tr> <tr><td>1 PL DEC</td><td><math>\pm 0.1</math></td></tr> <tr><td>2 PL DEC</td><td><math>\pm 0.01</math></td></tr> <tr><td>3 PL DEC</td><td><math>\pm 0.005</math></td></tr> <tr><td>ANGLES</td><td><math>\pm .1^\circ</math></td></tr> <tr><td>SURFACE ROUGHNESS</td><td><math>125 \mu\text{in}</math></td></tr> </table>		0 PL DEC	$\pm 0.2$	1 PL DEC	$\pm 0.1$	2 PL DEC	$\pm 0.01$	3 PL DEC	$\pm 0.005$	ANGLES	$\pm .1^\circ$	SURFACE ROUGHNESS	$125 \mu\text{in}$	SolidWorks MAINTAINED DATA CHANGES SHALL BE INCORPORATED ELECTRONICALLY BY THE DESIGN ACTIVITY <b>PROPRIETARY</b> NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM, WITHOUT THE WRITTEN PERMISSION OF Conestoga College CUSTOMER WHEELCHAIR USER PROJECT WHEELCHAIR LIFT	<b>C</b> CONESTOGA Connect Life and Learning 299 Doon Valley Drive, Kitchener, ON, N2G 4M4 <b>PLATFORM SLIDE</b> SIZE <b>B</b> DRAWING NO <b>D404</b> REVISION <b>-</b> DATE 2019.06.08 DRAWN BY K. LEE CHECKED BY K. LEE APPROVED K. LEE SCALE 1:2 WEIGHT lbs 1 OF 1
0 PL DEC	$\pm 0.2$														
1 PL DEC	$\pm 0.1$														
2 PL DEC	$\pm 0.01$														
3 PL DEC	$\pm 0.005$														
ANGLES	$\pm .1^\circ$														
SURFACE ROUGHNESS	$125 \mu\text{in}$														
<b>THIRD ANGLE PROJECTION</b>															



**NOTE:**

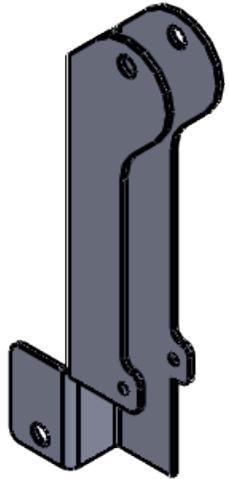
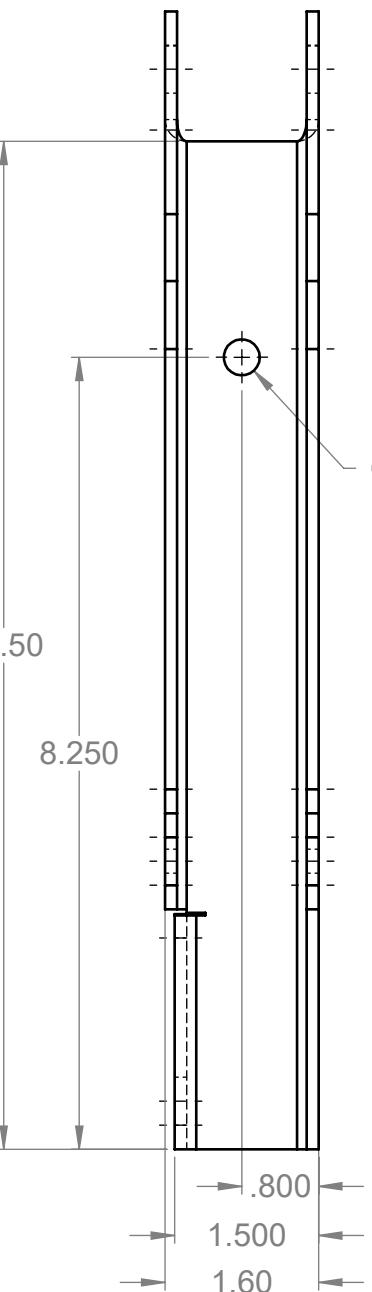
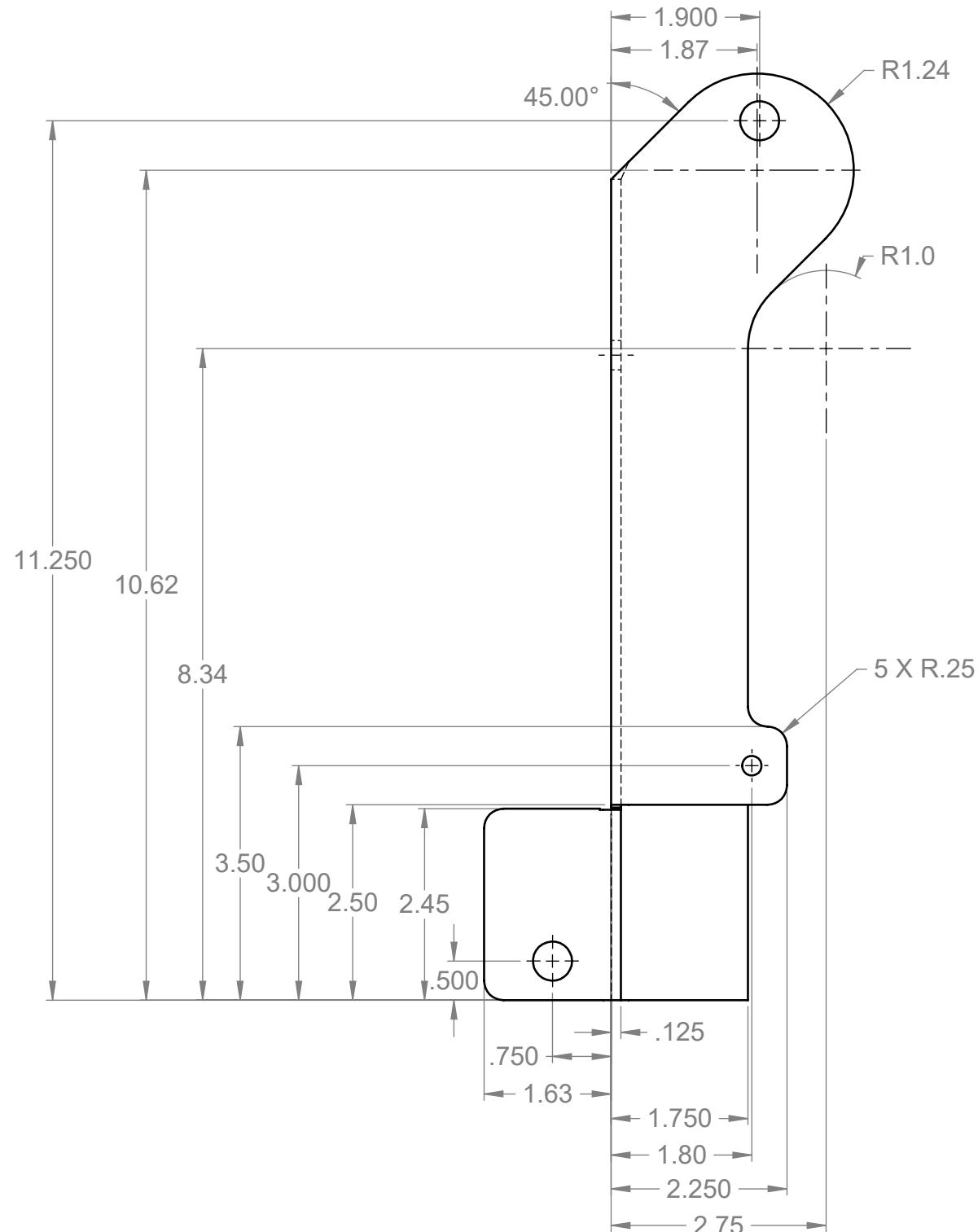
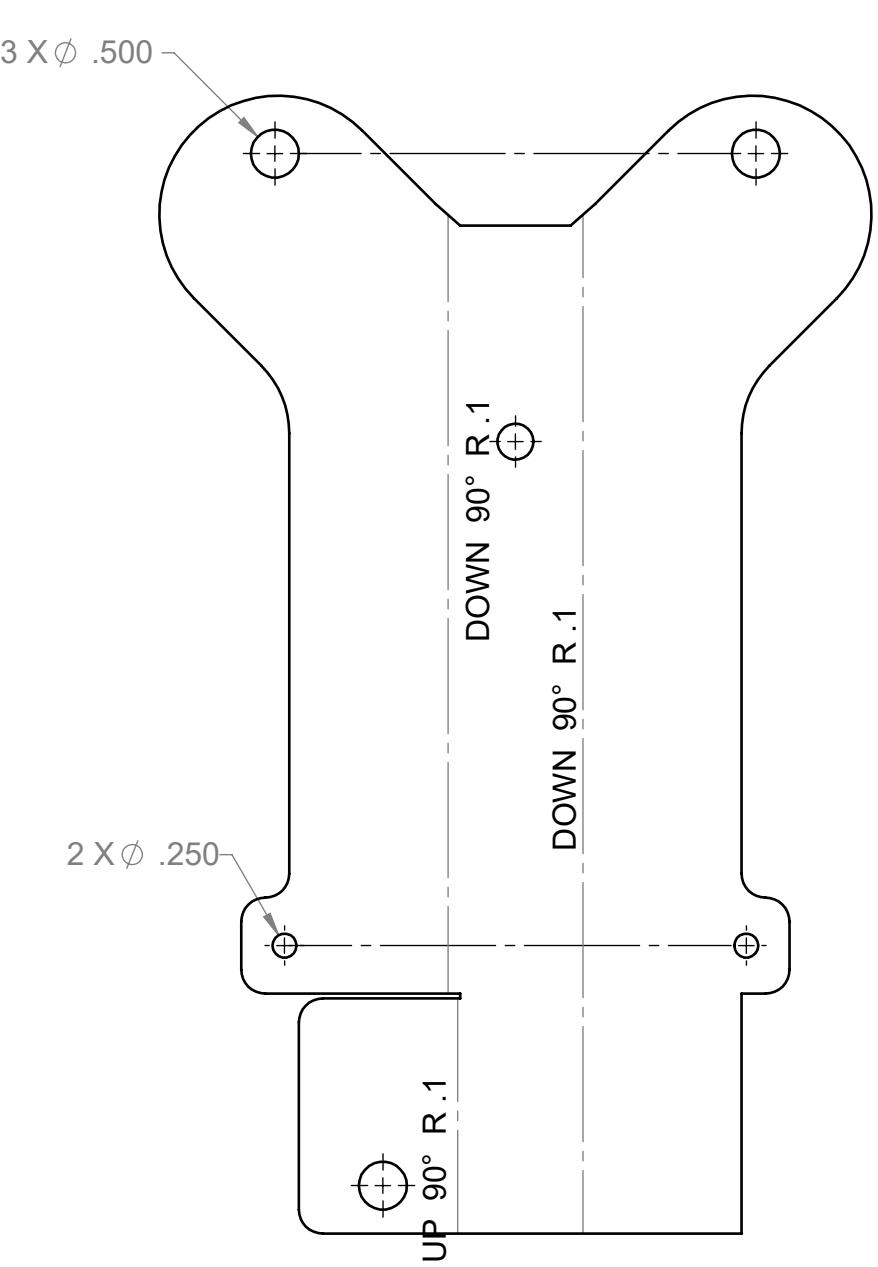
1. THICKNESS IS .125 INCHES
2. MATERIAL: 1040 ANNEALED

UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994 DIMENSIONS ARE IN INCHES TOLERANCES APPLY AS SHOWN BELOW	
0 PL DEC $\pm 0.2$ 1 PL DEC $\pm 0.1$ 2 PL DEC $\pm 0.01$ 3 PL DEC $\pm 0.005$ ANGLES $\pm 1^\circ$ SURFACE ROUGHNESS      125 $\mu$ in	
<b>THIRD ANGLE PROJECTION</b>	

SolidWorks MAINTAINED DATA CHANGES SHALL BE INCORPORATED ELECTRONICALLY BY THE DESIGN ACTIVITY
<b>PROPRIETARY</b>
NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM, WITHOUT THE WRITTEN PERMISSION OF Conestoga College
CUSTOMER WHEELCHAIR USER
PROJECT WHEELCHAIR LIFT
DRAWN BY K. LEE      DATE 2019.06.08
CHECKED BY K. LEE      DATE 2019.06.08
APPROVED K. LEE      DATE 2019.06.08

<b>C</b>	CONESTOGA		299 Doon Valley Drive, Kitchener, ON, N2G 4M4
	TITLE		
<b>OUTER FOLD ARM</b>			
<b>B</b>	DRAWING NO	<b>D405</b>	REVISION -
SCALE 1:2	WEIGHT lbs	1 OF 1	





NOTE:  
1. THICKNESS IS .125 INCHES  
2. MATERIAL: 1040 ANNEALED

UNLESS OTHERWISE SPECIFIED

DO NOT SCALE DRAWING

INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES

TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	$\pm 0.2$
1 PL DEC	$\pm 0.1$
2 PL DEC	$\pm 0.01$
3 PL DEC	$\pm 0.005$
ANGLES	$\pm .1^\circ$
SURFACE ROUGHNESS	$125 \mu\text{in}$

SolidWorks MAINTAINED DATA  
CHANGES SHALL BE INCORPORATED  
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PROPRIETARY

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CUSTOMER

WHEELCHAIR USER

PROJECT

WHEELCHAIR LIFT

THIRD ANGLE PROJECTION



DRAWN BY  
K. LEE

DATE  
2019.06.08

CHECKED BY  
K. LEE

DATE  
2019.06.08

APPROVED  
K. LEE

DATE  
2019.06.08



CONESTOGA  
Connect Life and Learning

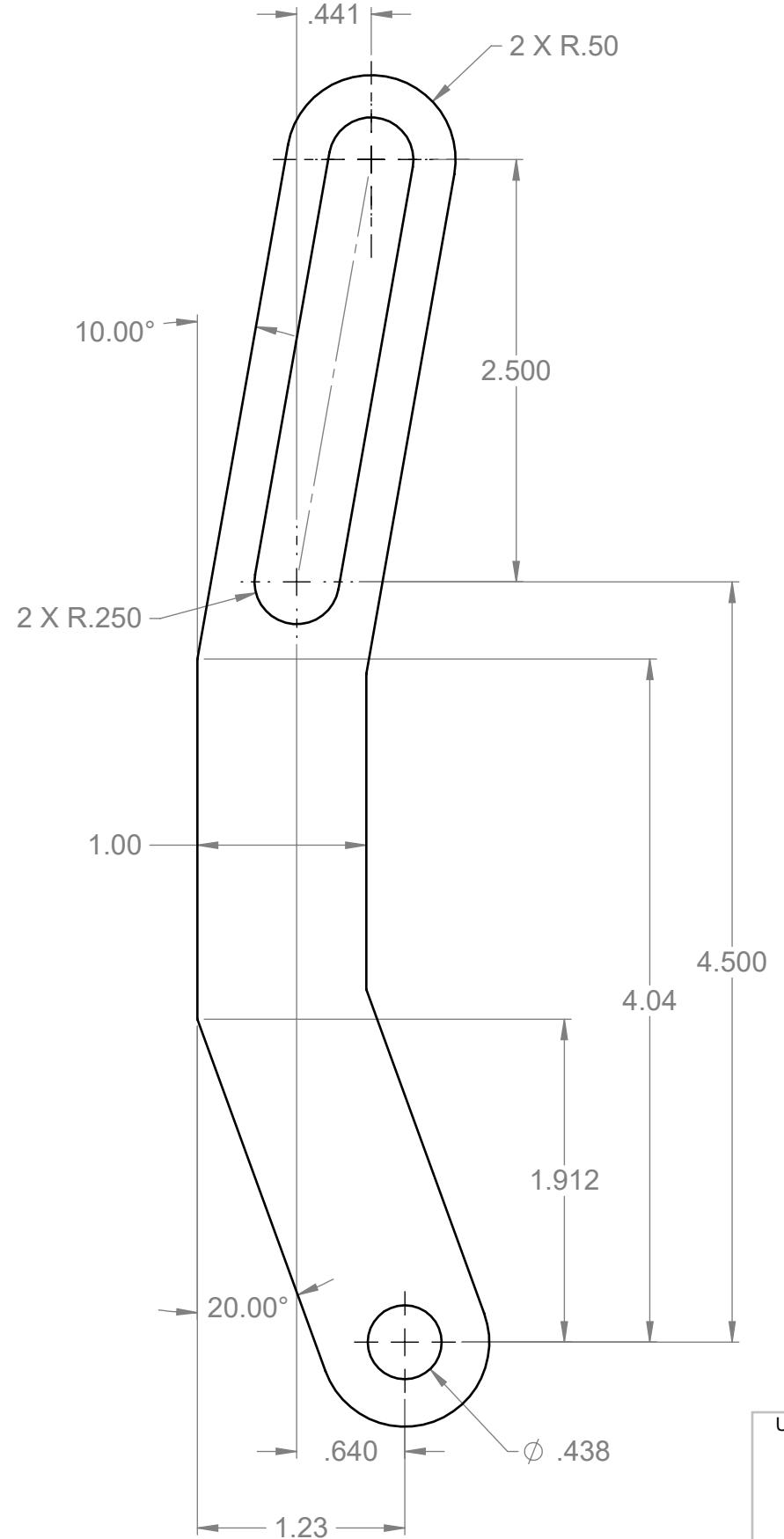
299 Doon Valley Drive, Kitchener, ON, N2G 4M4

INNER FOLD ARM TYPE 2

B | DRAWING NO  
**D406-02**

REVISION  
-

SCALE 1:2 | WEIGHT lbs | 1 OF 1



**NOTE:**

1. THICKNESS IS .125 INCHES
2. MATERIAL: 1040 ANNEALED

UNLESS OTHERWISE SPECIFIED

DO NOT SCALE DRAWING

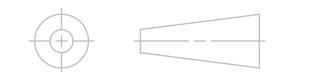
INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES

TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	± 0.2
1 PL DEC	± 0.1
2 PL DEC	± 0.01
3 PL DEC	± 0.005
ANGLES	± .1°
SURFACE ROUGHNESS	125 µ in

THIRD ANGLE PROJECTION



SolidWorks MAINTAINED DATA  
CHANGES SHALL BE INCORPORATED  
ELECTRONICALLY BY THE DESIGN ACTIVITY

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Conestoga College

CUSTOMER

WHEELCHAIR USER

PROJECT

WHEELCHAIR LIFT

DRAWN BY

K. LEE

DATE

2019.06.08

CHECKED BY

K. LEE

DATE

2019.06.08

APPROVED

K. LEE

DATE

2019.06.08



**CONESTOGA**  
Connect Life and Learning

299 Doon Valley Drive, Kitchener, ON, N2G 4M4

# PIVOT ARM SLOT

**D407**

-

**B**

DRAWING NO

SCALE

1:1

WEIGHT

lbs

1 OF 1

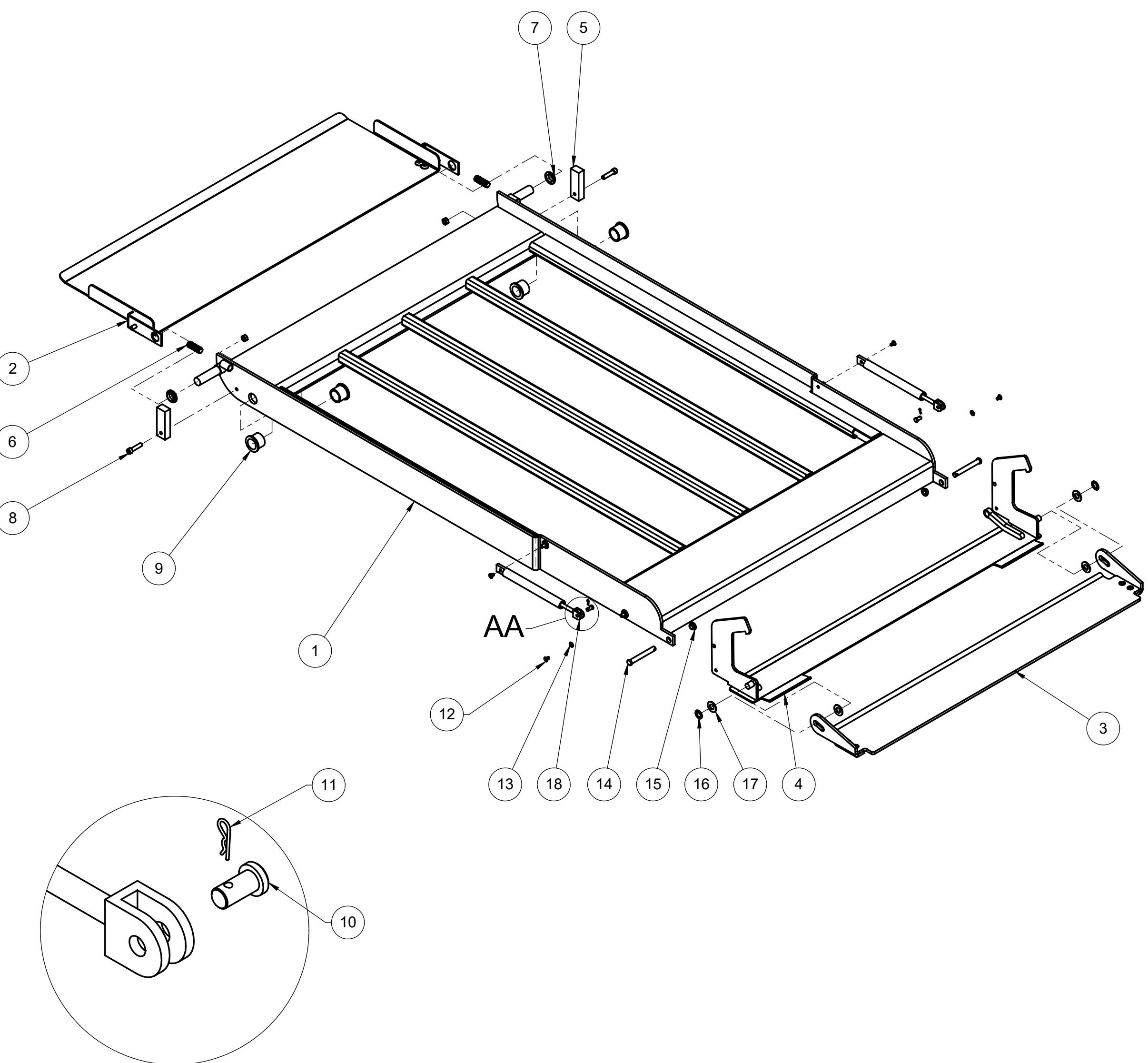
D

C

B

A

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	SSA501	PLATFORM BODY SUB ASSEMBLY	1
2	SSA502	BRIDGE PLATE SUB ASSEMBLY	1
3	SSA503	ROLL STOP ALUM SUB ASSEMBLY	1
4	SSA504	ROLL STOP ACTIVATION FOOT SUB ASSEMBLY	1
5	D505	STOP BLOCK	2
6	90322A161	HIGH-STRENGTH STEEL THREADED ROD, 1/2"-20 THREAD SIZE, 1-1/2" LONG	2
7	3113K65	OIL-EMBEDDED SLEEVE BEARING WITH CERTIFICATION, FLANGED FOR 3/4" SHAFT DIAMETER AND 7/8" HOUSING ID, 1/2" LONG	2
8	90128A586	ZINC-PLATED ALLOY STEEL SOCKET HEAD SCREW, 5/16"-18 THREAD SIZE, 1-1/4" LONG	2
9	6338K437	OIL-EMBEDDED FLANGED SLEEVE BEARING FOR 1" SHAFT, 1-1/4" HOUSING ID, 1" LONG, 1/8" FLANGE THICKNESS	4
10	98306A155	1004-1045 CARBON STEEL CLEVIS PIN, 1/4" DIAMETER, 5/16" USABLE LENGTH	2
11	92375A002	316 STAINLESS STEEL HAIRPIN COTTER PIN FOR 7/64" TO 9/64" CLEVIS PIN DIAMETER, 0.031" WIRE DIAMETER	2
12	91263A542	ZINC-PLATED ALLOY STEEL HEX DRIVE FLAT HEAD SCREW, 10-32 THREAD SIZE, 3/8" LONG	4
13	90107A011	316 STAINLESS STEEL WASHER FOR NUMBER 10 SCREW SIZE, 0.203" ID, 0.438" OD	2
14	98306A285	1004-1045 CARBON STEEL CLEVIS PIN, 3/8" DIAMETER, 2-3/4" USABLE LENGTH	2
15	7815K18	MULTIPURPOSE FLANGED SLEEVE BEARING FOR 3/8" SHAFT DIAMETER AND 1/2" HOUSING ID, 1/4" LONG	2
16	98430A138	PUSH-ON EXTERNAL RETAINING RINGS FOR 1/2" OD, BLACK-PHOSPHATE 1060-1090 SPRING STEEL	2
17	2796T13	ULTRA-LOW-FRICTION DRY-RUNNING THRUST BEARING FOR 1/2" SHAFT DIAMETER, PTFE	4
18	GAS SPRING ASSEMBLY (TYPE2)	GAS SPRING, 7.01" EXTENDED LENGTH	2
19	94191A200		2



DETAIL AA  
SCALE 1 : 1

UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994		SolidWorks MAINTAINED DATA CHANGES SHALL BE INCORPORATED ELECTRONICALLY BY THE DESIGN ACTIVITY	
		PROPRIETARY	
		NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM, WITHOUT THE WRITTEN PERMISSION OF Conestoga College.	
DIMENSIONS ARE IN INCHES TOLERANCES APPLY AS SHOWN BELOW		CUSTOMER WHEELCHAIR USER PROJECT WHEELCHAIR LIFT	
0 PL DEC $\pm 0.03$ 1 PL DEC $\pm 0.02$ 2 PL DEC $\pm 0.01$ 3 PL DEC $\pm 0.005$ ANGLE $\pm 0.005$ SURFACE ROUGHNESS $12.5 \mu\text{in}$		DRAWN BY K. LEE      DATE 2019.06.08 CHECKED BY K. LEE      DATE 2019.06.08 APPROVED K. LEE      DATE 2019.06.08	
THIRD ANGLE PROJECTION		SIZE C      DRAWING NO 1:8	REVISION -
		g	1 OF 1

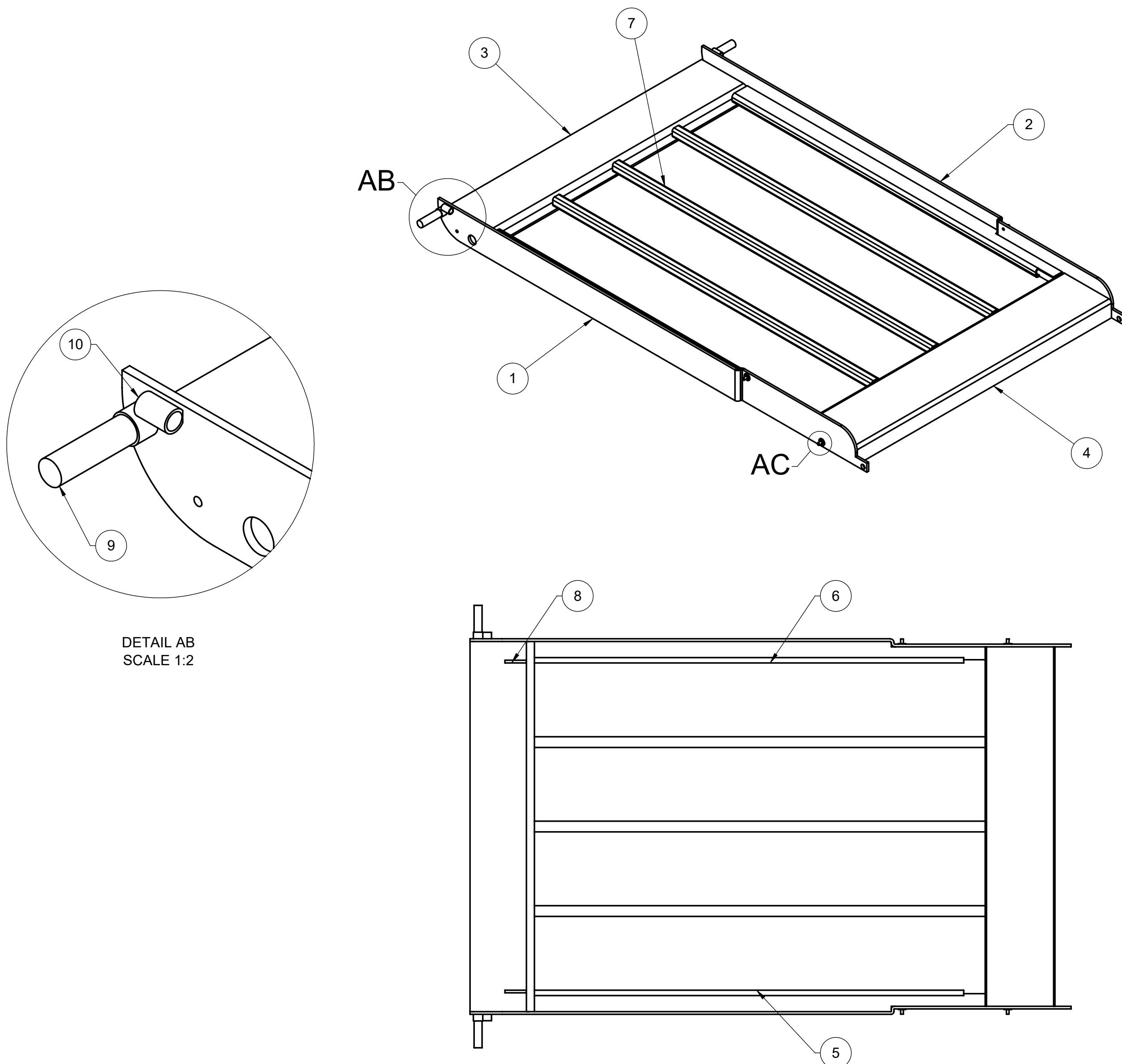
C CONESTOGA  
Connect Life and Learning  
299 Doon Valley Drive, Kitchener, ON, N2G 4M4

PLATFORM ASSEMBLY

SA500

**D****C****B****A**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	D501-01	SIDE WALL TYPE 1	1
2	D501-02	SIDE WALL TYPE 2	1
3	D501-03	BOTTOM PLATE TYPE 1	1
4	D501-04	BOTTOM PLATE TYPE 2	1
5	D501-05	MACHINED PROFILE TYPE 1	1
6	D501-06	MACHINED PROFILE TYPE 2	1
7	D501-07	PROFILE TUBE	3
8	D501-08	SUPPORT PLATE	2
9	D501-09	STEPPED PIN	2
10	D501-10	STOPPER SUPPORT	2
11	90596A115	STEEL ROUND-BASE WELD NUT, ZINC-PLATED, 10-32 THREAD SIZE, 7/16" BARREL HEIGHT	4



UNLESS OTHERWISE SPECIFIED  
DO NOT SCALE DRAWING  
INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994  
DIMENSIONS ARE IN INCHES  
TOLERANCES APPLY AS SHOWN BELOW  
0 FL DEC       $\pm 0.03$   
1 FL DEC       $\pm 0.02$   
2 FL DEC       $\pm 0.01$   
3 FL DEC       $\pm 0.005$   
ANGLES  
SURFACE ROUGHNESS       $125 \mu\text{in}$

PROPRIETARY  
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IN ANY FORM, WITHOUT THE WRITTEN PERMISSION OF  
Conestoga College.

CUSTOMER  
WHEELCHAIR USER  
PROJECT  
WHEELCHAIR LIFT

DRAWN BY  
K. LEE  
CHECKED BY  
K. LEE  
APPROVED  
K. LEE

DATE  
2019.06.08  
DATE  
2019.06.08  
DATE  
2019.06.08

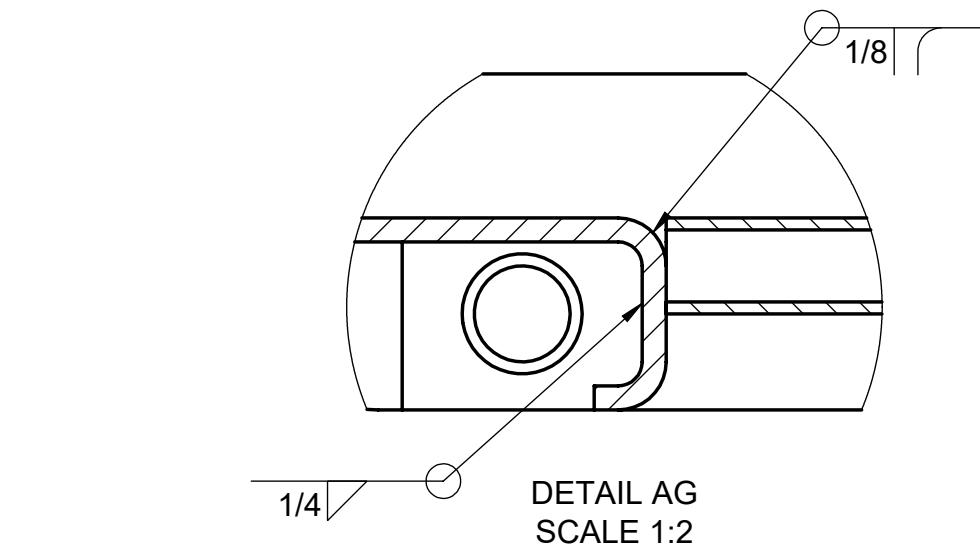
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C      SSA501

SCALE      WEIGHT  
1:8      g      1 OF 1

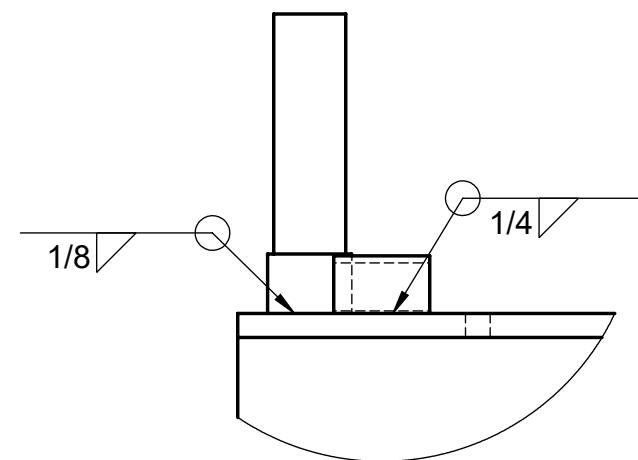
**C** CONESTOGA  
Connect Life and Learning  
299 Doon Valley Drive, Kitchener, ON, N2G 4M4

**PLATFORM BODY SUB ASSEMBLY**

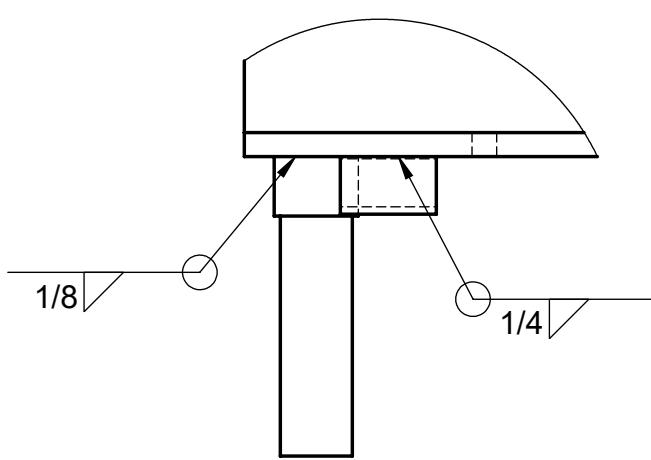
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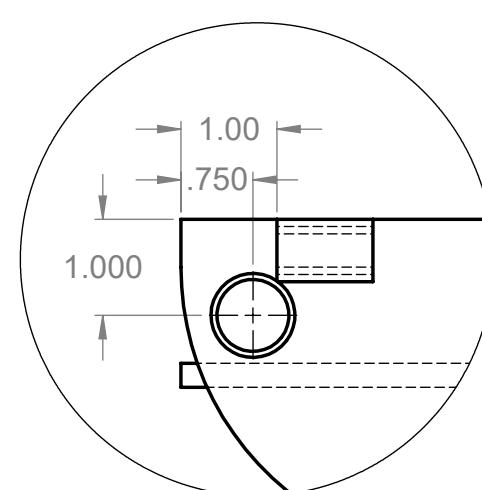
DETAIL AG  
SCALE 1:2



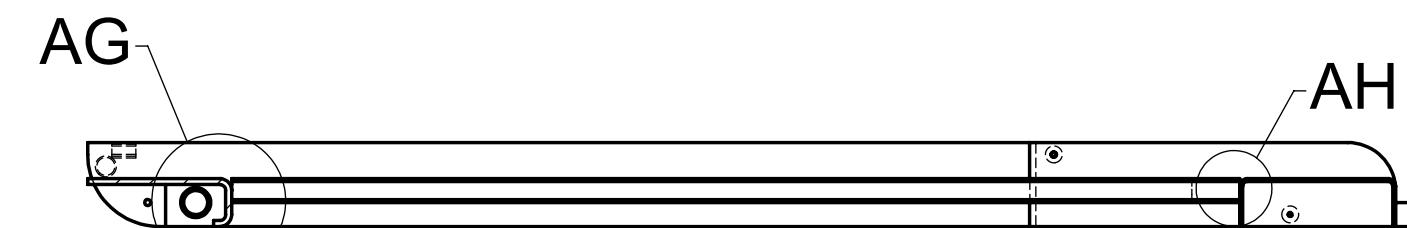
DETAIL N  
SCALE 1:2



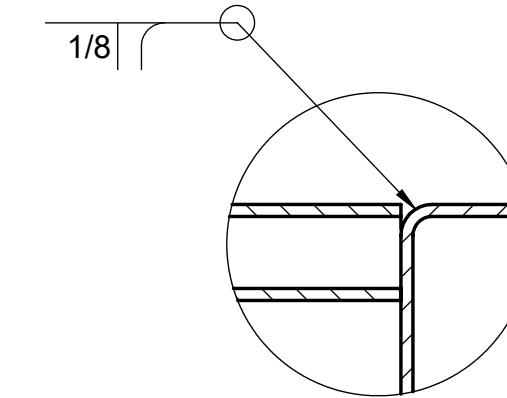
DETAIL L  
SCALE 1:2



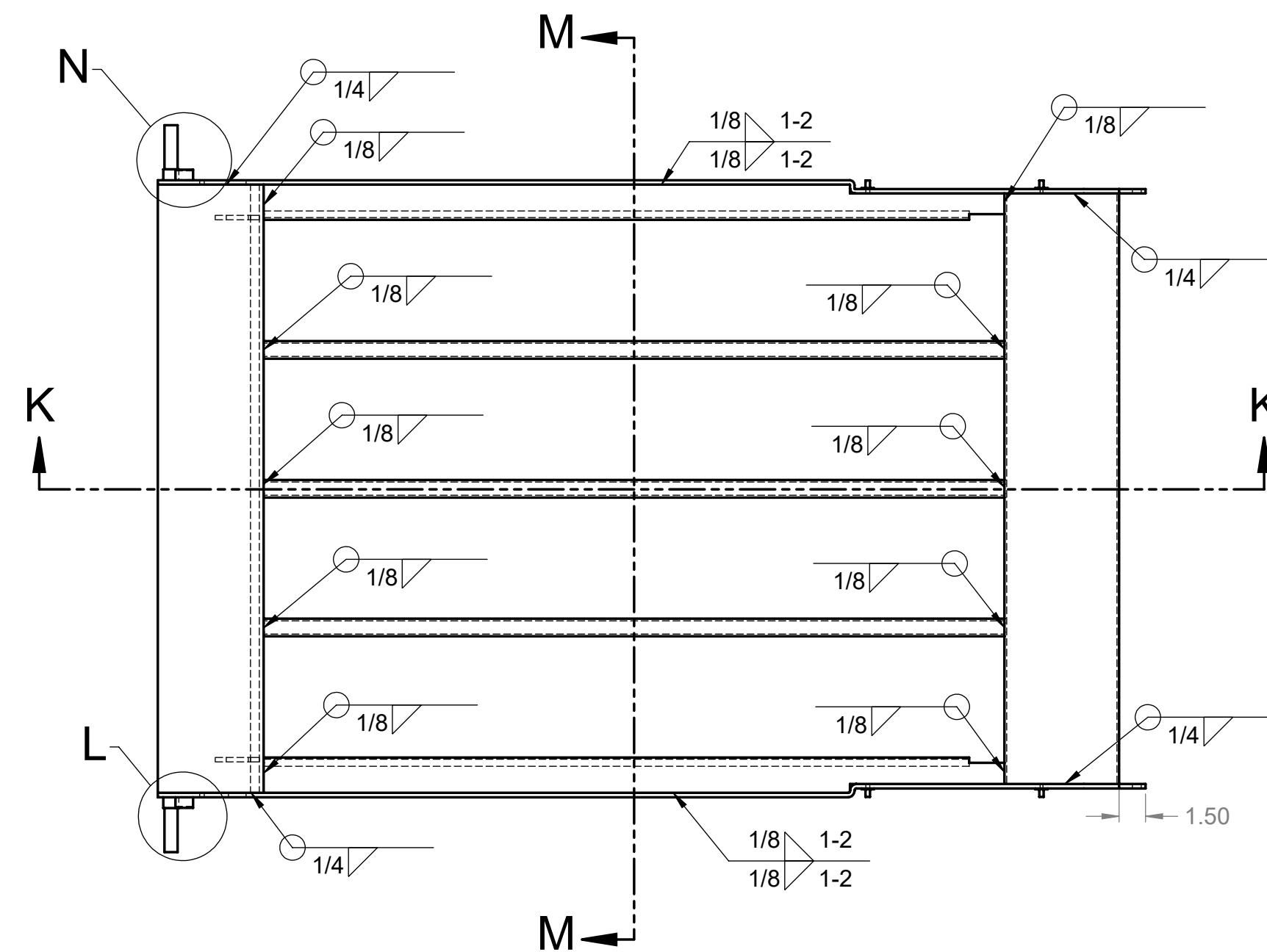
## DETAIL .



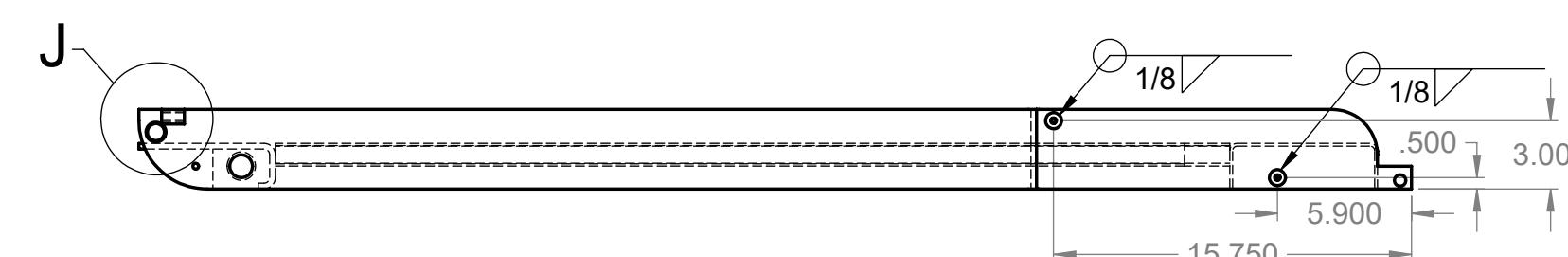
**SECTION K-K**



DETAIL AH  
SCALE 1:2



**SECTION M-M**  
**SCALE 1:8**



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PER ASME Y14.5M-1994

SolidWorks MAINTAINED DATA  
CHANGES SHALL BE INCORPORATED  
ELECTRONICALLY BY THE DESIGN ACTIVITY

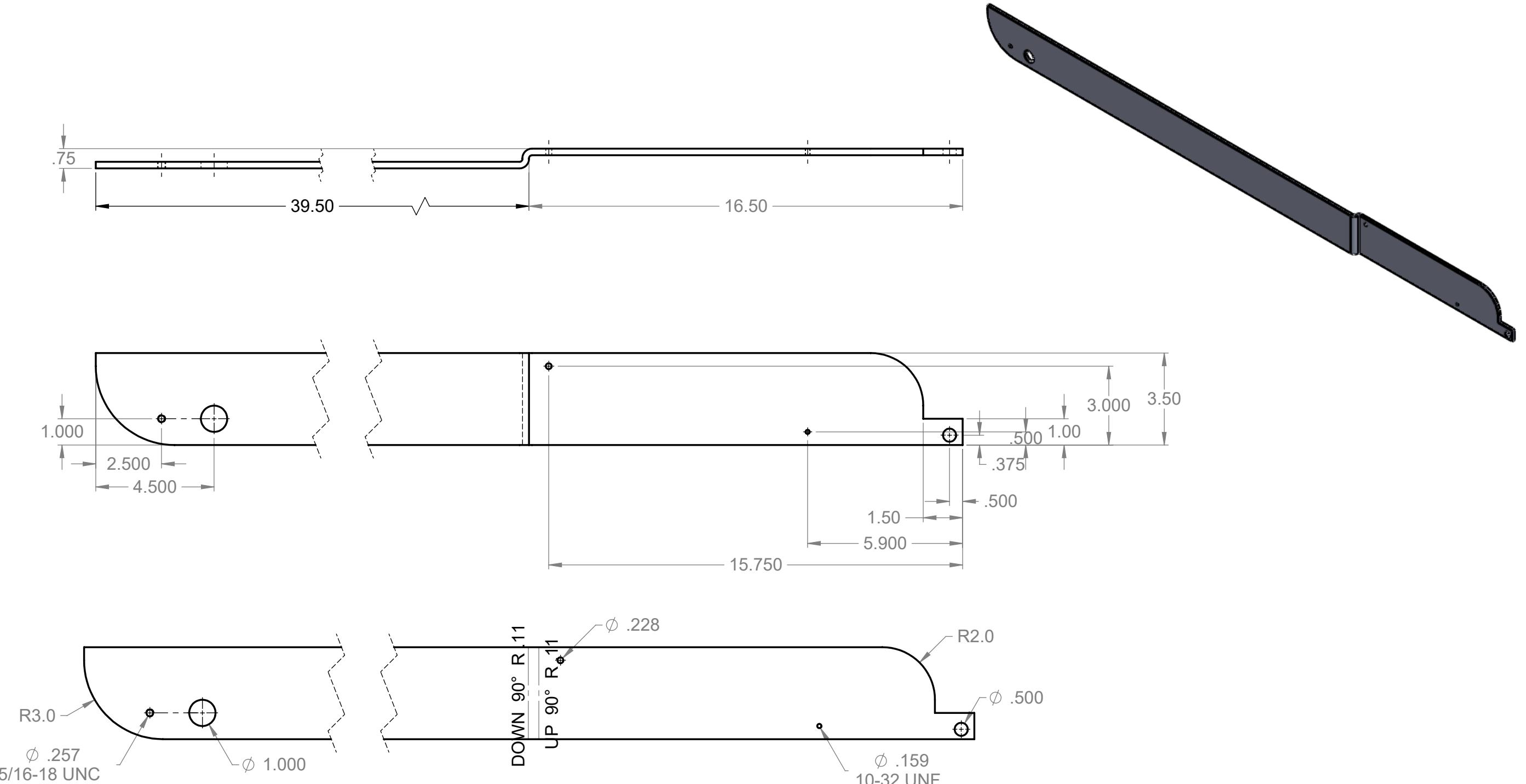
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**PROPRIETARY**

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 CONESTOGA  
Connect Life and Learning

<b>PLATFORM BODY WELDMENT</b>		
SIZE <b>C</b>	DRAWING NO <b>WA501</b>	REVISION <b>-</b>
SCALE <b>1:8</b>	WEIGHT <b>g</b>	<b>1 OF 1</b>



**NOTE:**

1. THICKNESS IS .25 INCHES
2. MATERIAL: 1040 ANNEALED

UNLESS OTHERWISE SPECIFIED

DO NOT SCALE DRAWING

INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES

TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	$\pm 0.2$
1 PL DEC	$\pm 0.1$
2 PL DEC	$\pm 0.01$
3 PL DEC	$\pm 0.005$
ANGLES	$\pm 1^\circ$
SURFACE ROUGHNESS	125 $\mu$ in

THIRD ANGLE PROJECTION



SolidWorks MAINTAINED DATA  
CHANGES SHALL BE INCORPORATED  
ELECTRONICALLY BY THE DESIGN ACTIVITY

PROPRIETARY

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Conestoga College

CUSTOMER  
WHEELCHAIR USER

PROJECT  
WHEELCHAIR LIFT

DRAWN BY  
K. LEE

DATE  
2019.06.08

CHECKED BY  
K. LEE

DATE  
2019.06.08

APPROVED  
K. LEE

DATE  
2019.06.08



299 Doon Valley Drive, Kitchener, ON, N2G 4M4

# SIDE WALL TYPE 1

**D501-01**

-

SIZE

B

DRAWING NO

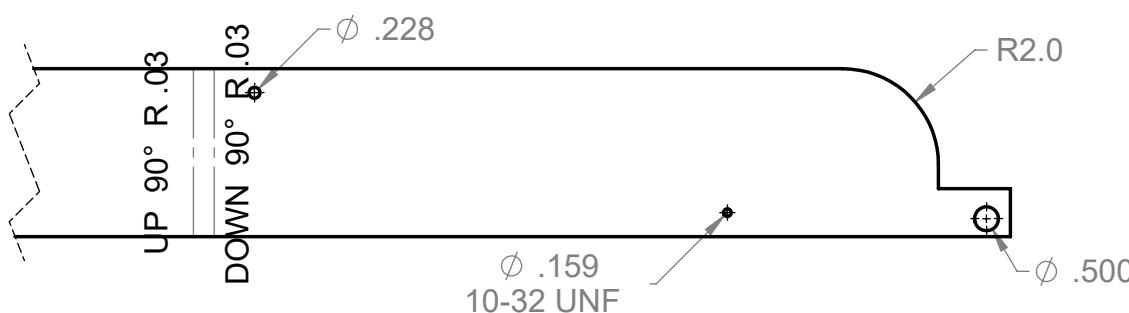
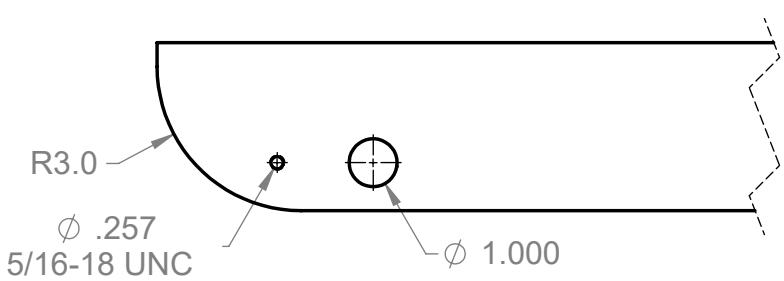
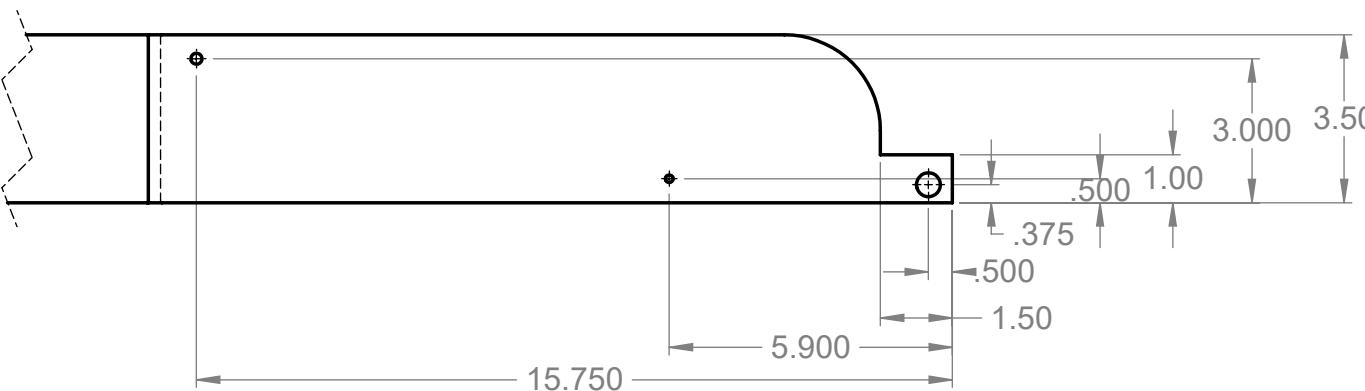
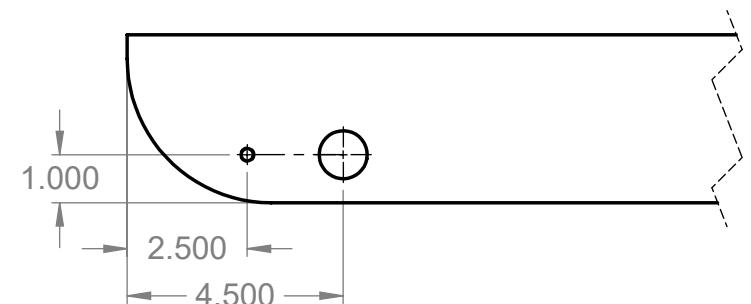
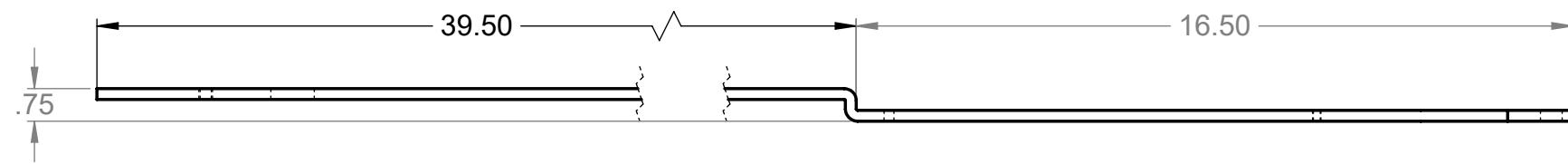
1:4

SCALE

WEIGHT lbs

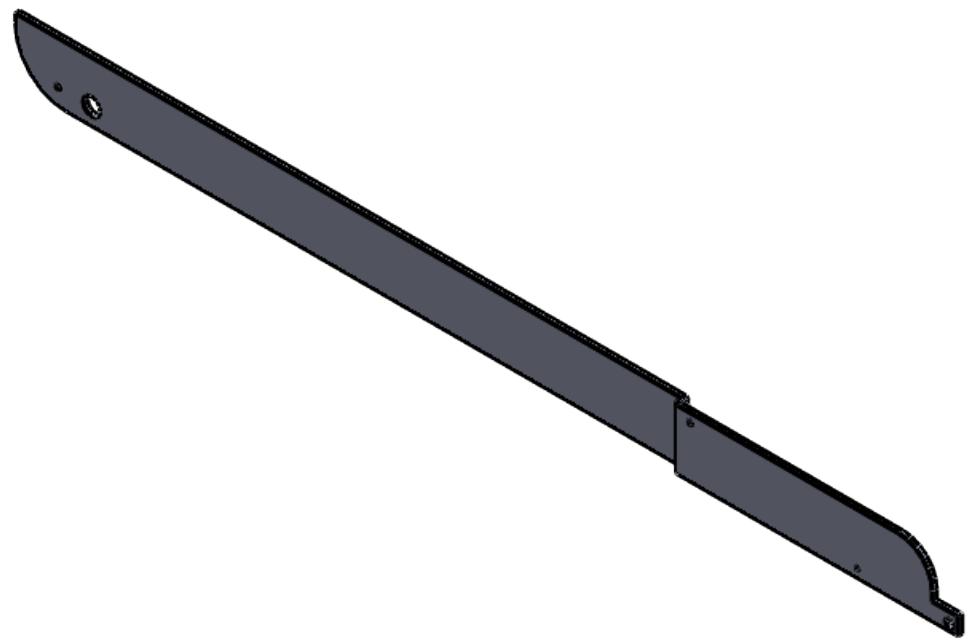
REVISION

1 OF 1



- NOTE:**
1. THICKNESS IS .25 INCHES
  2. MATERIAL: 1040 ANNEALED

UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994 DIMENSIONS ARE IN INCHES TOLERANCES APPLY AS SHOWN BELOW	
0 PL DEC $\pm 0.2$ 1 PL DEC $\pm 0.1$ 2 PL DEC $\pm 0.01$ 3 PL DEC $\pm 0.005$ ANGLES $\pm .1^\circ$ SURFACE ROUGHNESS $125 \mu\text{in}$	
<b>PROPRIETARY</b> NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM, WITHOUT THE WRITTEN PERMISSION OF Conestoga College	
CUSTOMER WHEELCHAIR USER PROJECT WHEELCHAIR LIFT	
DRAWN BY K. LEE      DATE 2019.06.08 CHECKED BY K. LEE      DATE 2019.06.08 APPROVED K. LEE      DATE 2019.06.08	



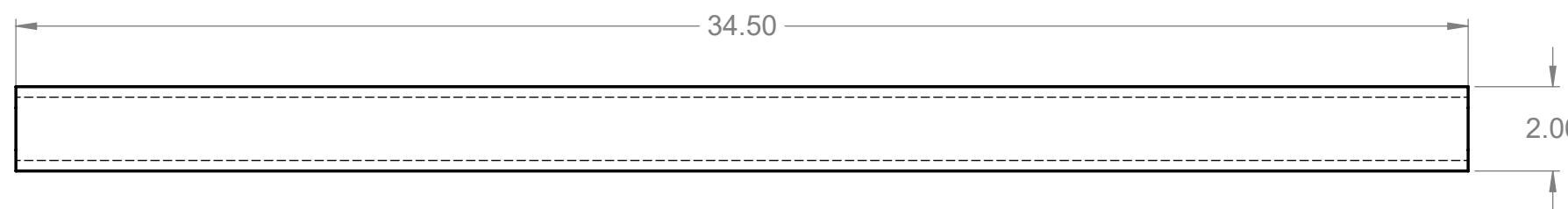
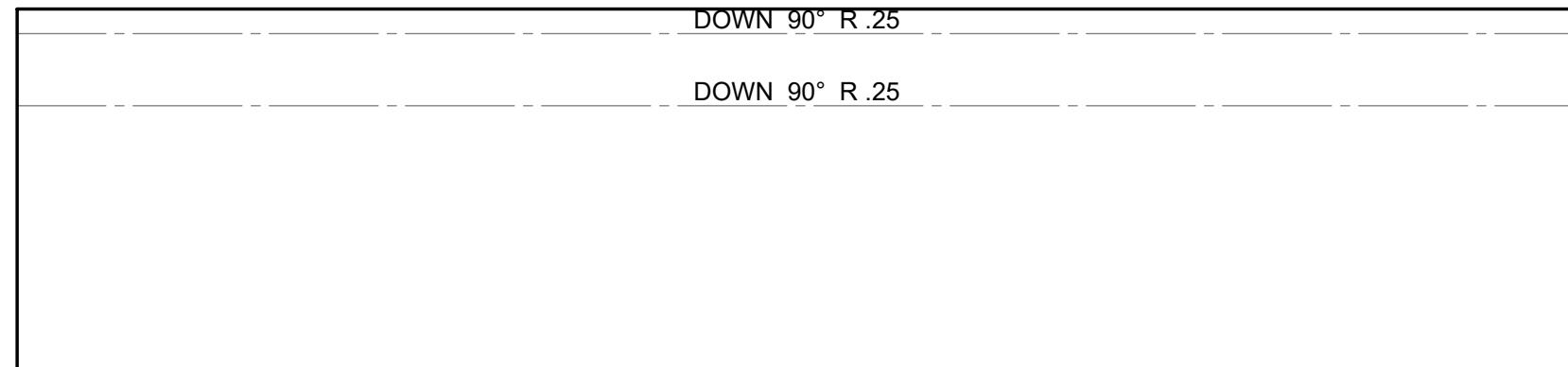
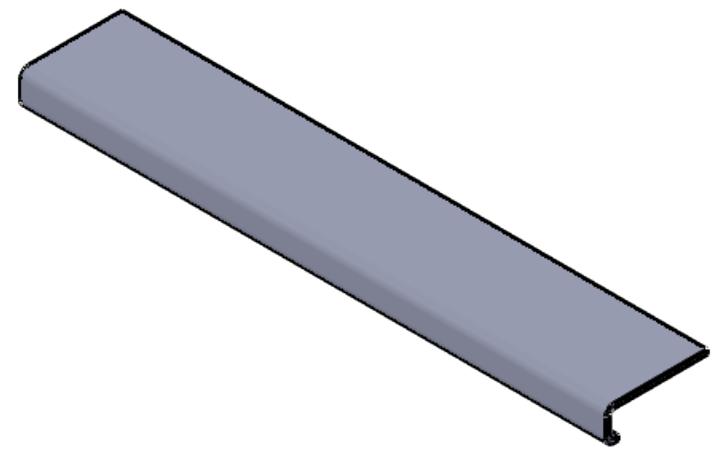
299 Doon Valley Drive, Kitchener, ON, N2G 4M4

## SIDE WALL TYPE 2

**D501-02**

-

SIZE	DRAWING NO	REVISION
<b>B</b>		
SCALE 1:4	WEIGHT lbs	1 OF 1



- NOTE:**
1. THICKNESS IS .25 INCHES
  2. MATERIAL: 1040 ANNEALED

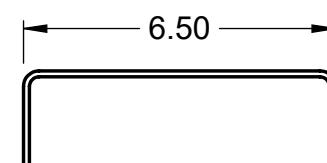
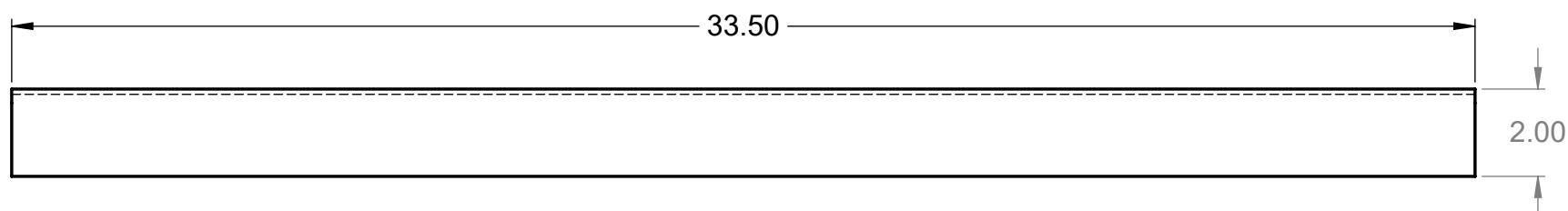
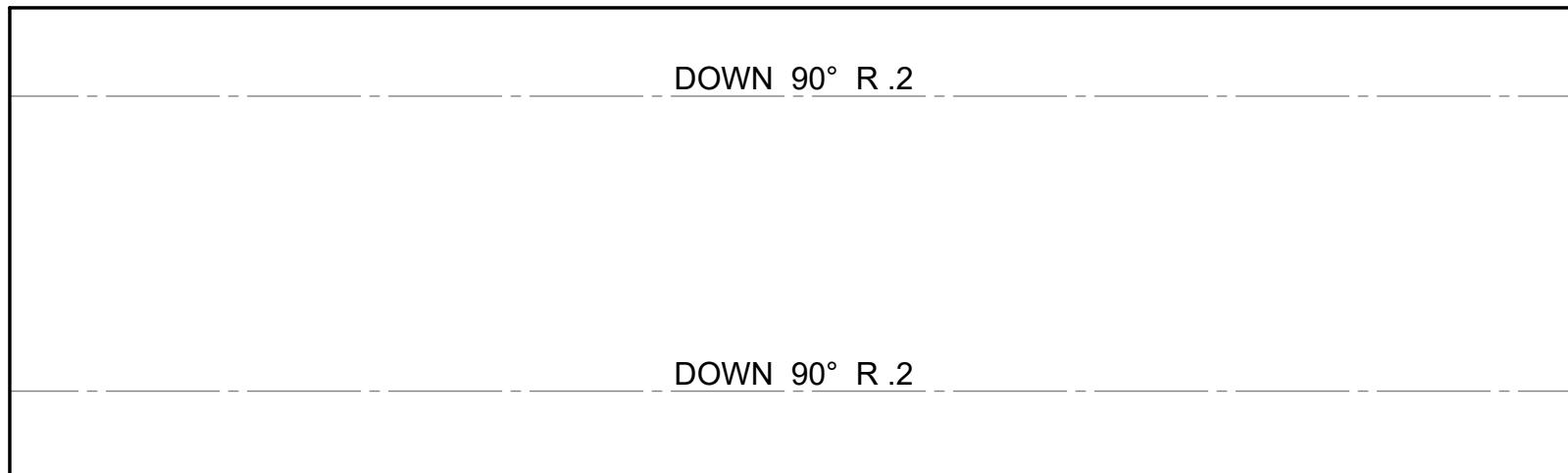
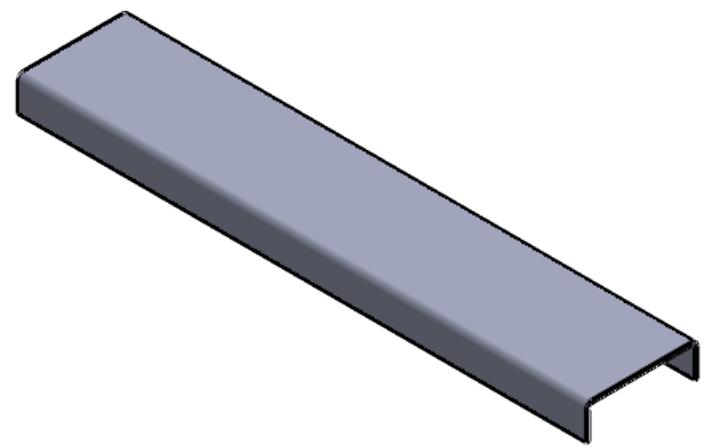
UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994 DIMENSIONS ARE IN INCHES TOLERANCES APPLY AS SHOWN BELOW		SolidWorks MAINTAINED DATA CHANGES SHALL BE INCORPORATED ELECTRONICALLY BY THE DESIGN ACTIVITY	
		<b>PROPRIETARY</b> NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM, WITHOUT THE WRITTEN PERMISSION OF Conestoga College	
		CUSTOMER WHEELCHAIR USER	
		PROJECT WHEELCHAIR LIFT	
<b>THIRD ANGLE PROJECTION</b> 		DRAWN BY K. LEE	DATE 2019.06.08
		CHECKED BY K. LEE	DATE 2019.06.08
		APPROVED K. LEE	DATE 2019.06.08
SIZE	DRAWING NO		
<b>B</b>	<b>D501-03</b>	REVISION <b>-</b>	
SCALE	1:4	WEIGHT	lbs
		1 OF 1	

**C** CONESTOGA  
Connect Life and Learning

299 Doon Valley Drive, Kitchener, ON, N2G 4M4

## BOTTOM PLATE TYPE 1

**D501-03**



- NOTE:**
1. THICKNESS IS .125 INCHES
  2. MATERIAL: 1040 ANNEALED

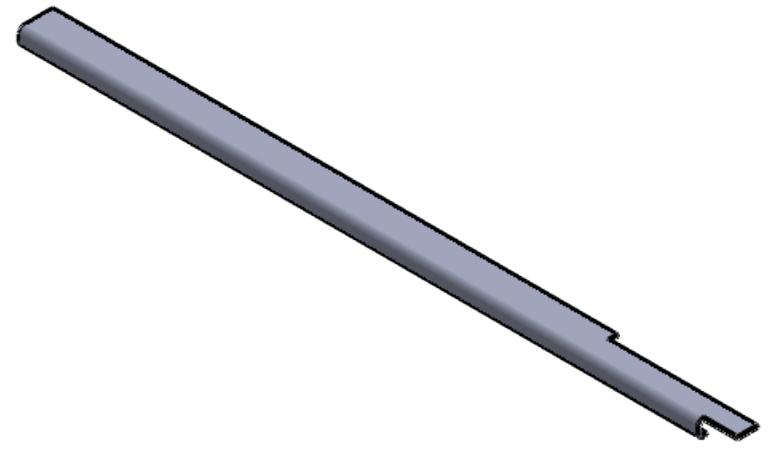
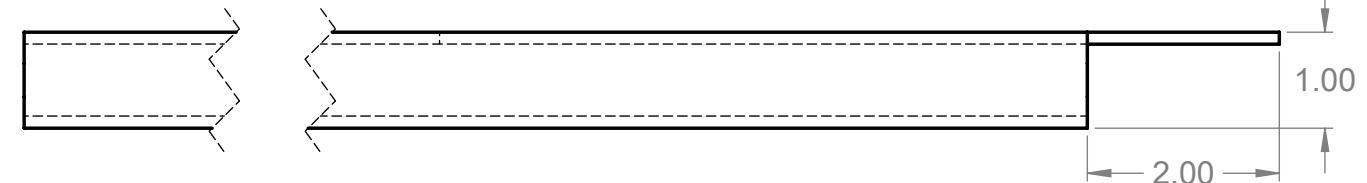
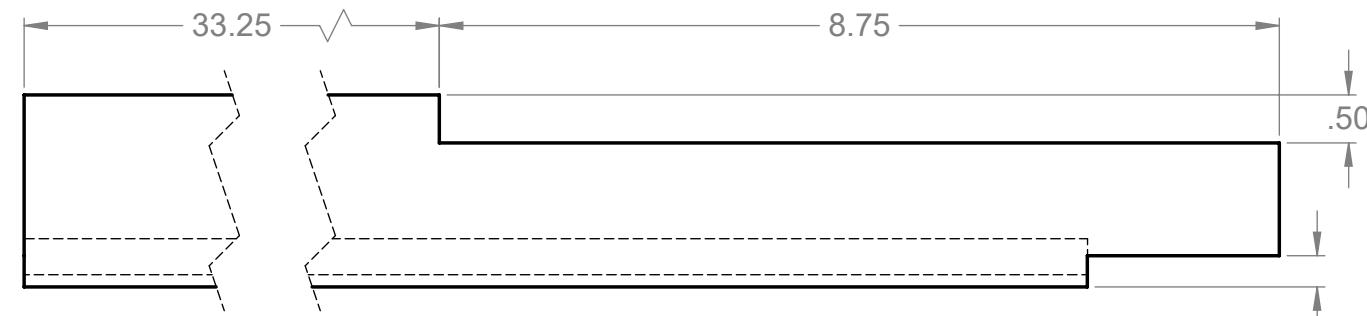
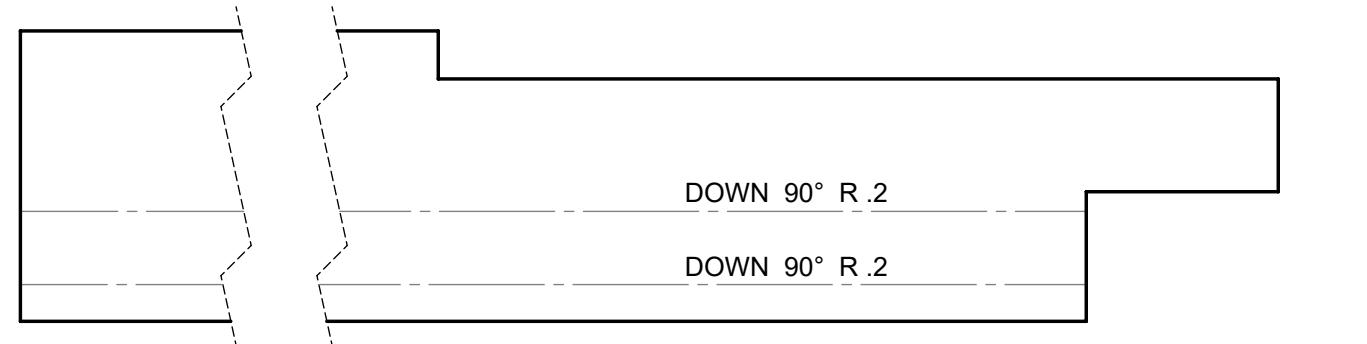
UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994 DIMENSIONS ARE IN INCHES TOLERANCES APPLY AS SHOWN BELOW		SolidWorks MAINTAINED DATA CHANGES SHALL BE INCORPORATED ELECTRONICALLY BY THE DESIGN ACTIVITY	
<b>PROPRIETARY</b>		NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM, WITHOUT THE WRITTEN PERMISSION OF Conestoga College	
CUSTOMER WHEELCHAIR USER		PROJECT WHEELCHAIR LIFT	
DRAWN BY K. LEE		DATE 2019.06.08	
CHECKED BY K. LEE		DATE 2019.06.08	
APPROVED K. LEE		DATE 2019.06.08	
THIRD ANGLE PROJECTION		SIZE <b>B</b>	
		DRAWING NO <b>D501-04</b>	
SCALE 1:4		WEIGHT lbs	
REVISION -		1 OF 1	

**C** CONESTOGA  
Connect Life and Learning

299 Doon Valley Drive, Kitchener, ON, N2G 4M4

## BOTTOM PLATE TYPE 2

**D501-04**



- NOTE:**
1. THICKNESS IS .125 INCHES
  2. MATERIAL: 1040 ANNEALED

UNLESS OTHERWISE SPECIFIED  
DO NOT SCALE DRAWING

INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES

TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	$\pm 0.2$
1 PL DEC	$\pm 0.1$
2 PL DEC	$\pm 0.01$
3 PL DEC	$\pm 0.005$
ANGLES	$\pm .1^\circ$
SURFACE ROUGHNESS	$125 \mu\text{in}$

THIRD ANGLE PROJECTION



SolidWorks MAINTAINED DATA  
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ELECTRONICALLY BY THE DESIGN ACTIVITY

**PROPRIETARY**

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Conestoga College

CUSTOMER

WHEELCHAIR USER

PROJECT

WHEELCHAIR LIFT

DRAWN BY K. LEE DATE 2019.06.08

CHECKED BY K. LEE DATE 2019.06.08

APPROVED K. LEE DATE 2019.06.08



299 Doon Valley Drive, Kitchener, ON, N2G 4M4

## MACHINED PROFILE TYPE 1

**B**

**D501-05**

**-**

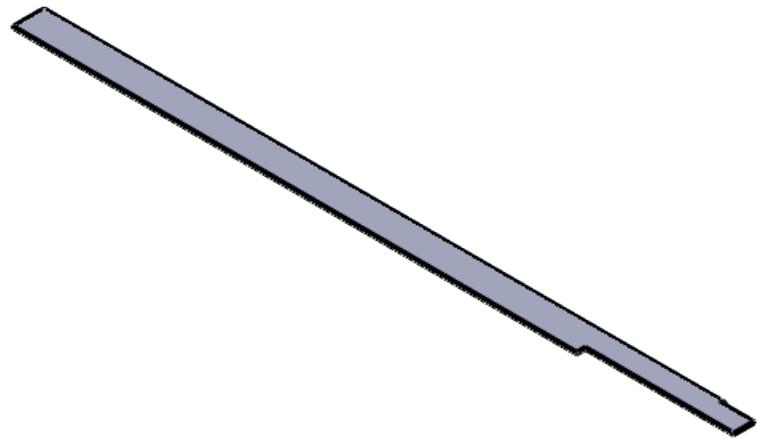
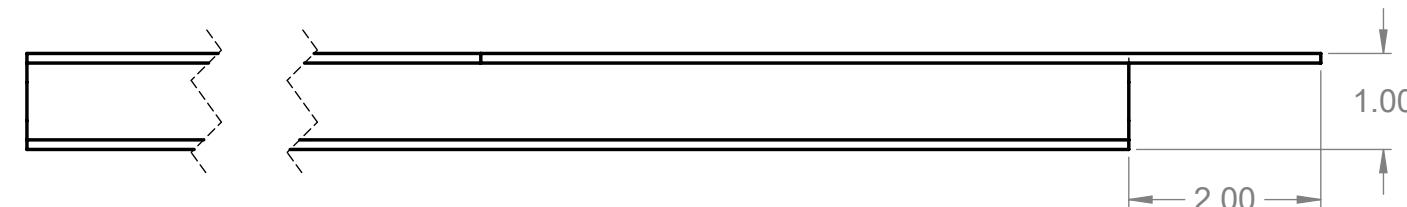
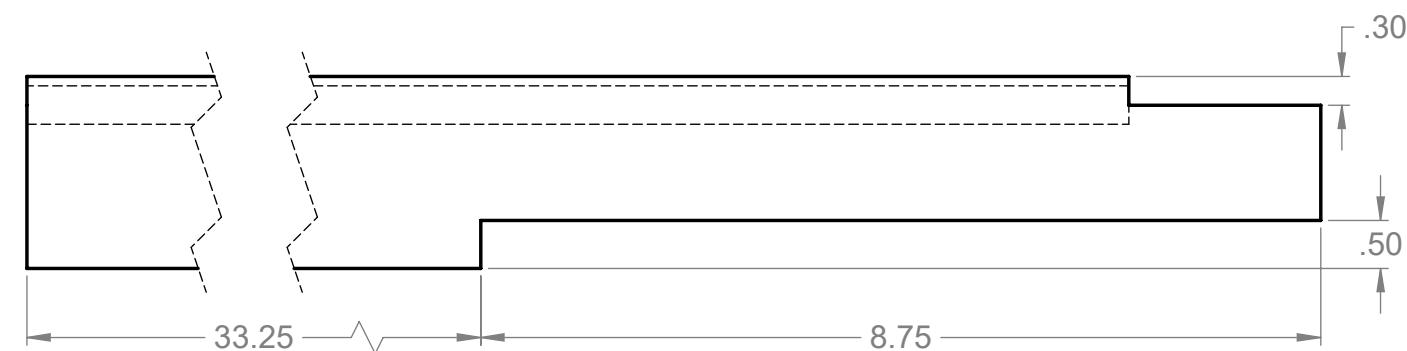
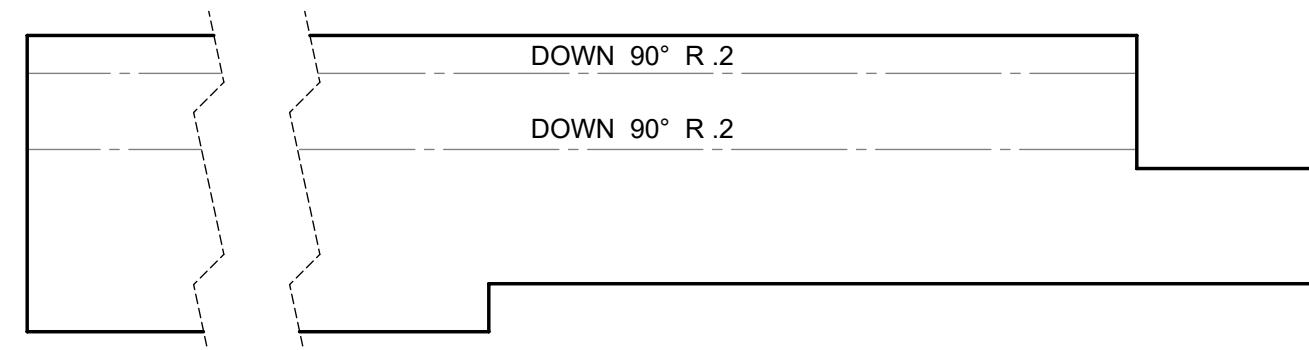
SCALE

1:2

WEIGHT

lbs

1 OF 1



**NOTE:**

1. THICKNESS IS .125 INCHES
2. MATERIAL: 1040 ANNEALED

UNLESS OTHERWISE SPECIFIED  
DO NOT SCALE DRAWING  
INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994  
DIMENSIONS ARE IN INCHES  
TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	$\pm 0.2$
1 PL DEC	$\pm 0.1$
2 PL DEC	$\pm 0.01$
3 PL DEC	$\pm 0.005$
ANGLES	$\pm .1^\circ$
SURFACE ROUGHNESS	$125 \mu\text{in}$

THIRD ANGLE PROJECTION

SolidWorks MAINTAINED DATA  
CHANGES SHALL BE INCORPORATED  
ELECTRONICALLY BY THE DESIGN ACTIVITY

PROPRIETARY  
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Conestoga College

CUSTOMER  
WHEELCHAIR USER  
PROJECT  
WHEELCHAIR LIFT

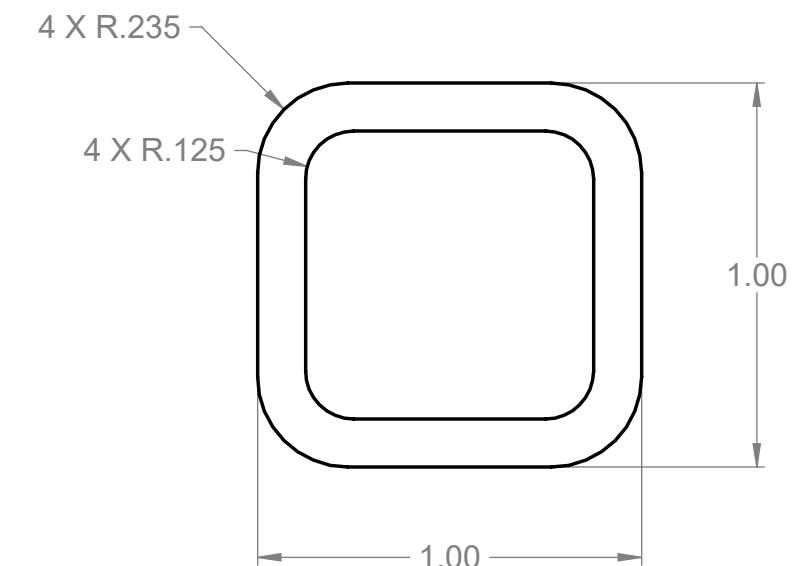
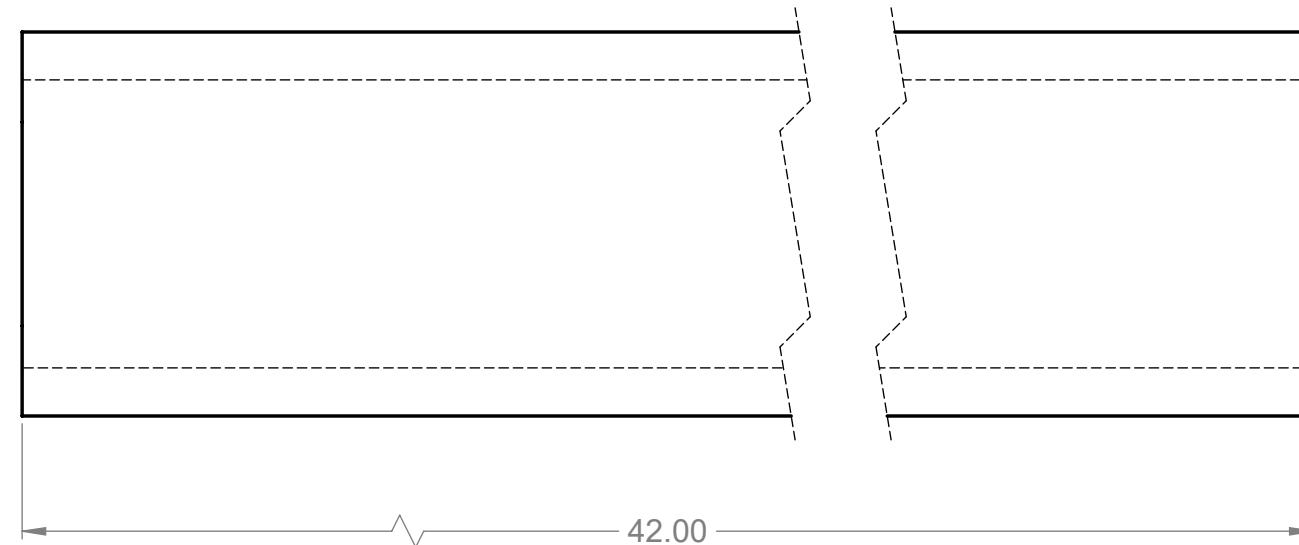
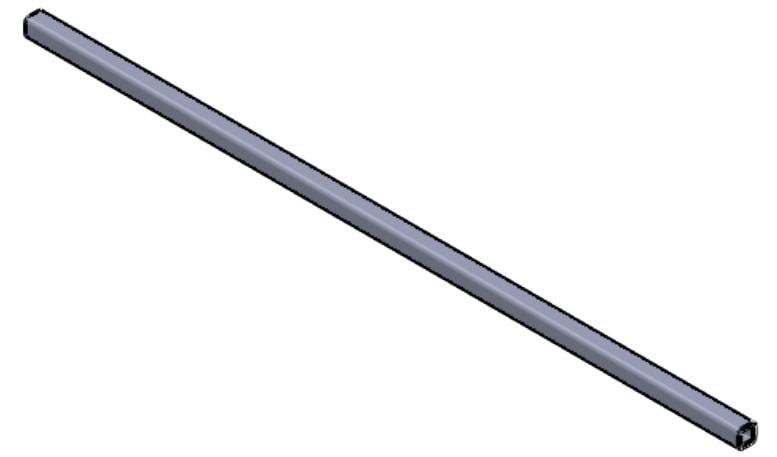
DRAWN BY K. LEE	DATE 2019.06.08
CHECKED BY K. LEE	DATE 2019.06.08
APPROVED K. LEE	DATE 2019.06.08

**C** CONESTOGA  
Connect Life and Learning

299 Doon Valley Drive, Kitchener, ON, N2G 4M4

**MACHINED PROFILE TYPE 2**  
**D501-06**

SIZE	DRAWING NO	REVISION
B		-
SCALE	1:2	WEIGHT lbs
1 OF 1		



**NOTE:**

1. THICKNESS IS .125 INCHES
2. MATERIAL: 1040 ANNEALED

UNLESS OTHERWISE SPECIFIED  
DO NOT SCALE DRAWING  
INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES  
TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	$\pm 0.2$
1 PL DEC	$\pm 0.1$
2 PL DEC	$\pm 0.01$
3 PL DEC	$\pm 0.005$
ANGLES	$\pm 1^\circ$
SURFACE ROUGHNESS	$125 \mu\text{in}$

THIRD ANGLE PROJECTION



SolidWorks MAINTAINED DATA  
CHANGES SHALL BE INCORPORATED  
ELECTRONICALLY BY THE DESIGN ACTIVITY

**PROPRIETARY**

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CUSTOMER  
WHEELCHAIR USER

PROJECT  
WHEELCHAIR LIFT

DRAWN BY K. LEE	DATE 2019.06.08
CHECKED BY K. LEE	DATE 2019.06.08
APPROVED K. LEE	DATE 2019.06.08



299 Doon Valley Drive, Kitchener, ON, N2G 4M4

# PROFILE TUBE

**D501-07**

REVISION

-

**B**

DRAWING NO

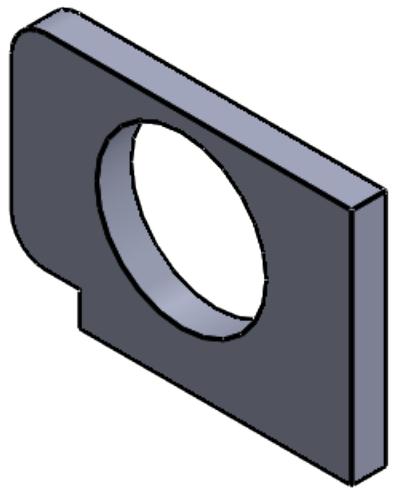
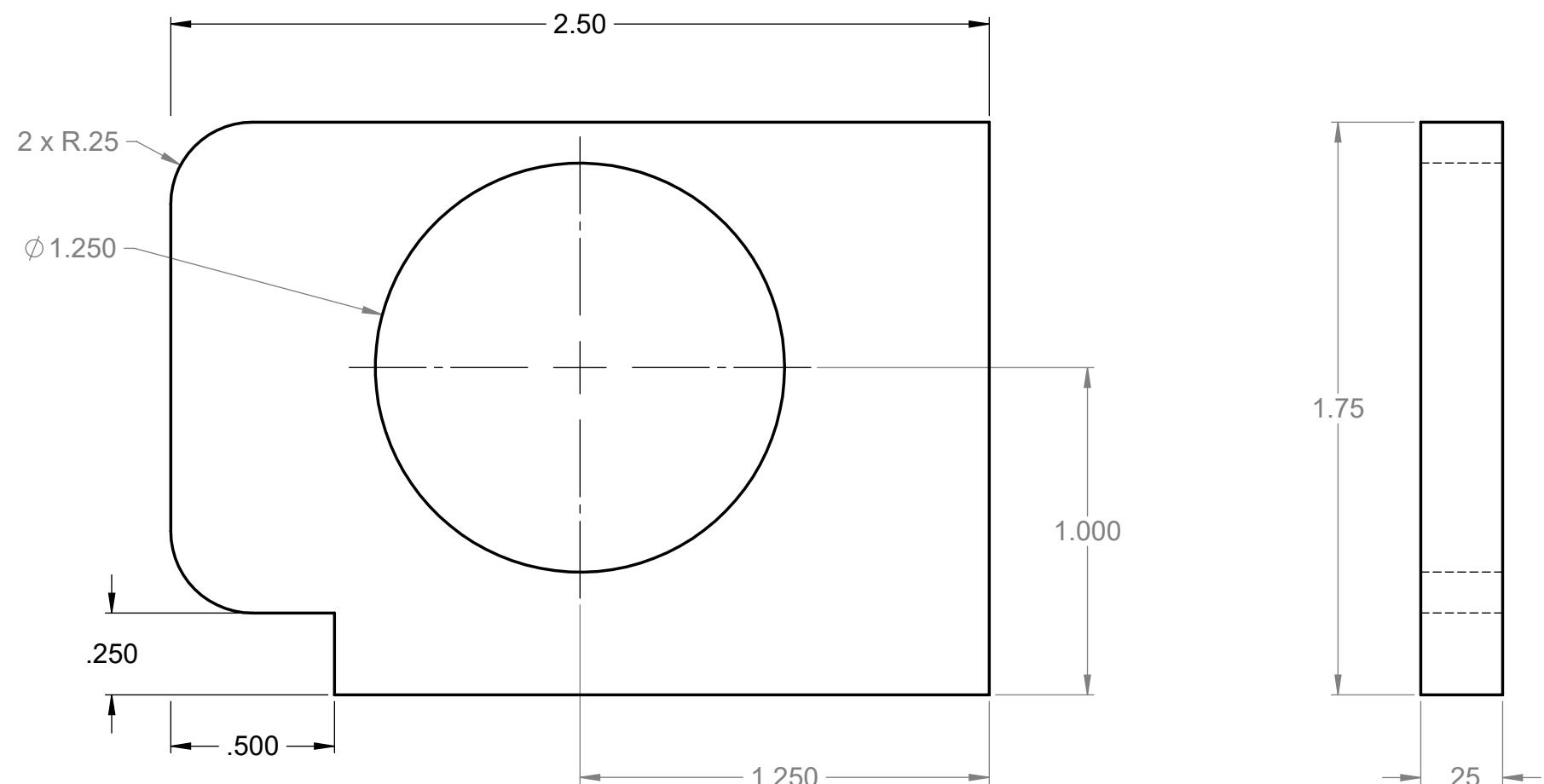
SCALE

2:1

WEIGHT

lbs

1 OF 1



**NOTE:**  
1. MATERIAL: 1040 ANNEALED

UNLESS OTHERWISE SPECIFIED  
DO NOT SCALE DRAWING

INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES

TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	$\pm 0.2$
1 PL DEC	$\pm 0.1$
2 PL DEC	$\pm 0.01$
3 PL DEC	$\pm 0.005$
ANGLES	$\pm .1^\circ$
SURFACE ROUGHNESS	125 $\mu$ in

THIRD ANGLE PROJECTION



SolidWorks MAINTAINED DATA  
CHANGES SHALL BE INCORPORATED  
ELECTRONICALLY BY THE DESIGN ACTIVITY

PROPRIETARY

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Conestoga College

CUSTOMER

WHEELCHAIR USER

PROJECT

WHEELCHAIR LIFT

DRAWN BY

K. LEE

CHECKED BY

K. LEE

APPROVED

K. LEE

DATE

2019.06.08

DATE

2019.06.08

DATE

2019.06.08

**C** CONESTOGA  
Connect Life and Learning

299 Doon Valley Drive, Kitchener, ON, N2G 4M4

# SUPPORT PLATE

**D501-08**

-

**B**

DRAWING NO

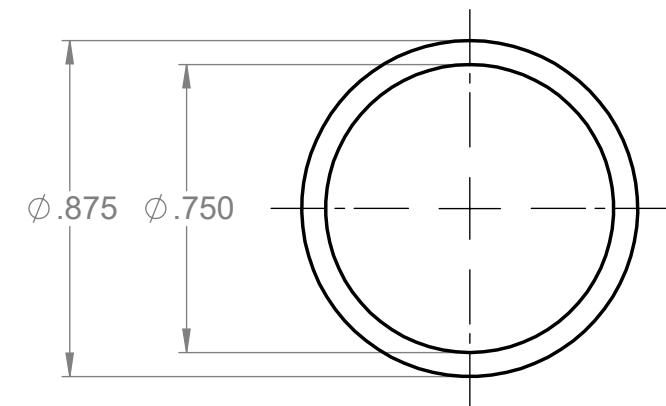
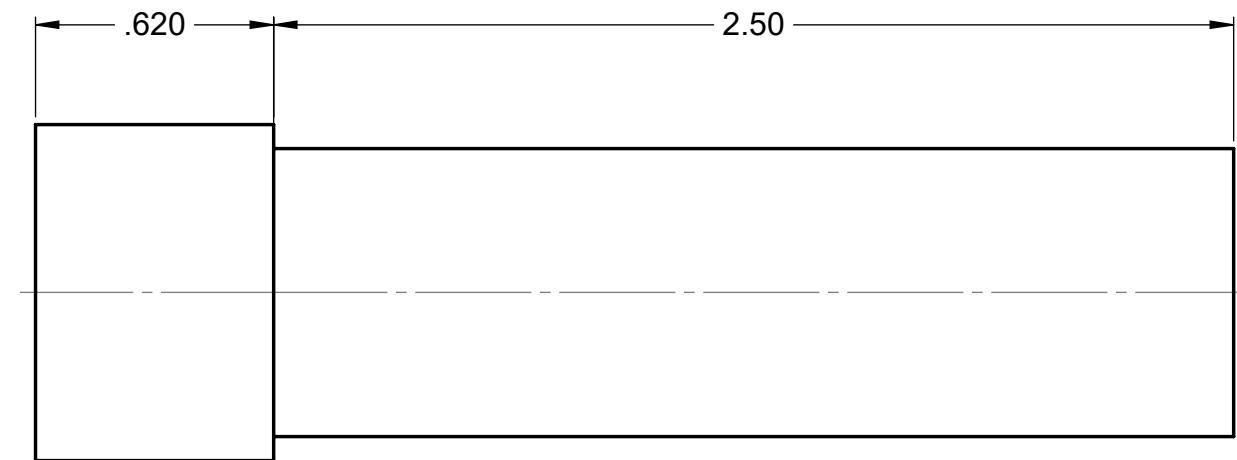
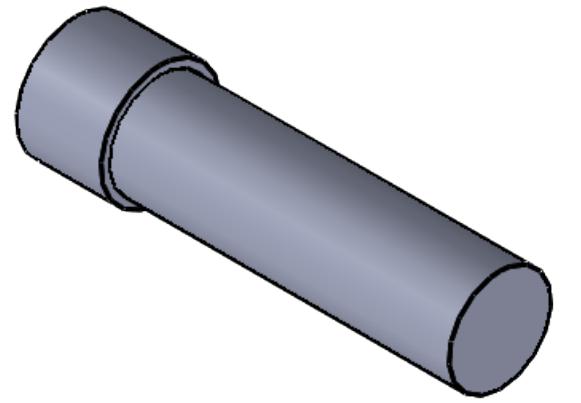
SCALE

2:1

WEIGHT

lbs

1 OF 1



NOTE:  
1. MATERIAL: 1040 ANNEALED

UNLESS OTHERWISE SPECIFIED

DO NOT SCALE DRAWING

INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES

TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	± 0.2
1 PL DEC	± 0.1
2 PL DEC	± 0.01
3 PL DEC	± 0.005
ANGLES	± .1°
SURFACE ROUGHNESS	125 $\mu$ in

THIRD ANGLE PROJECTION



SolidWorks MAINTAINED DATA  
CHANGES SHALL BE INCORPORATED  
ELECTRONICALLY BY THE DESIGN ACTIVITY

PROPRIETARY

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Conestoga College

CUSTOMER

WHEELCHAIR USER

PROJECT

WHEELCHAIR LIFT

DRAWN BY

K. LEE

DATE

2019.06.08

CHECKED BY

K. LEE

DATE

2019.06.08

APPROVED

K. LEE

DATE

2019.06.08

**C** CONESTOGA  
Connect Life and Learning

299 Doon Valley Drive, Kitchener, ON, N2G 4M4

# STEPPED PIN

**D501-09**

REVISION

-

**B**

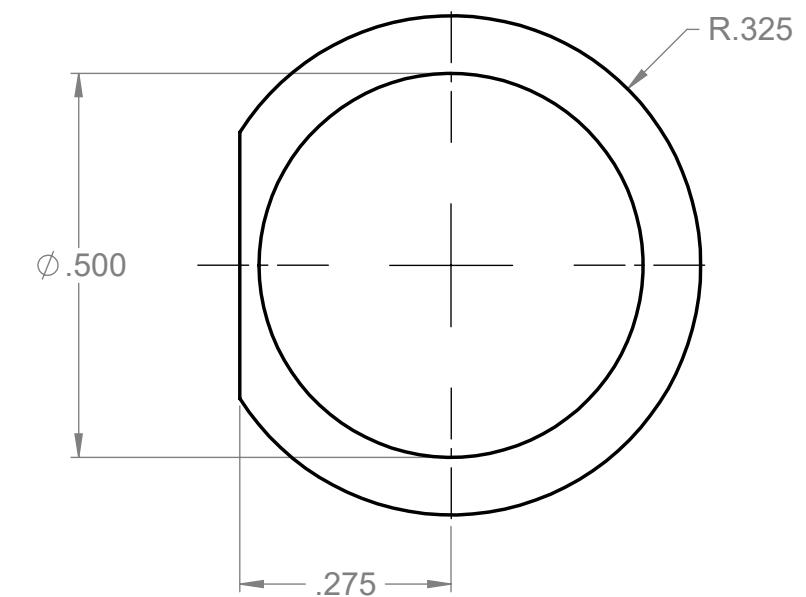
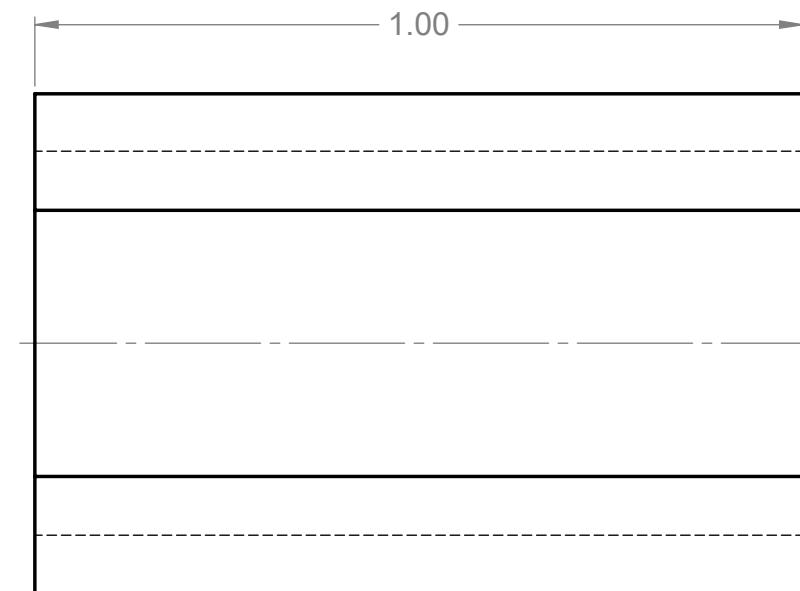
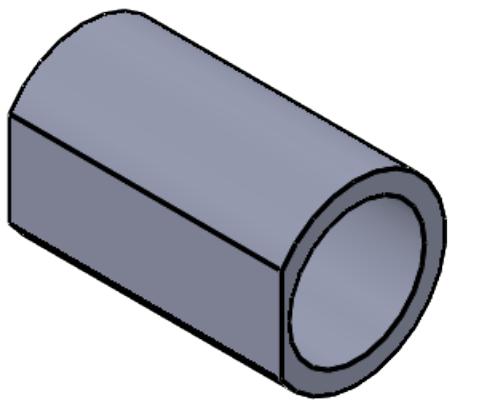
SIZE

2:1

WEIGHT

lbs

1 OF 1



UNLESS OTHERWISE SPECIFIED

DO NOT SCALE DRAWING

INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES

TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC       $\pm 0.2$   
1 PL DEC       $\pm 0.1$   
2 PL DEC       $\pm 0.01$   
3 PL DEC       $\pm 0.005$   
ANGLES       $\pm .1^\circ$   
SURFACE ROUGHNESS       $125 \mu\text{in}$

THIRD ANGLE PROJECTION



SolidWorks MAINTAINED DATA  
CHANGES SHALL BE INCORPORATED  
ELECTRONICALLY BY THE DESIGN ACTIVITY

PROPRIETARY

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ANY FORM, WITHOUT THE WRITTEN PERMISSION OF  
Conestoga College

CUSTOMER

WHEELCHAIR USER

PROJECT

WHEELCHAIR LIFT

DRAWN BY

K. LEE

DATE

2019.06.08

CHECKED BY

K. LEE

DATE

2019.06.08

APPROVED

K. LEE

DATE

2019.06.08



CONESTOGA  
Connect Life and Learning

299 Doon Valley Drive, Kitchener, ON, N2G 4M4

## STOPPER SUPPORT

NOTE:  
1. MATERIAL: 1040 ANNEALED

SIZE  
**B**

DRAWING NO  
**D501-10**

REVISION  
**-**

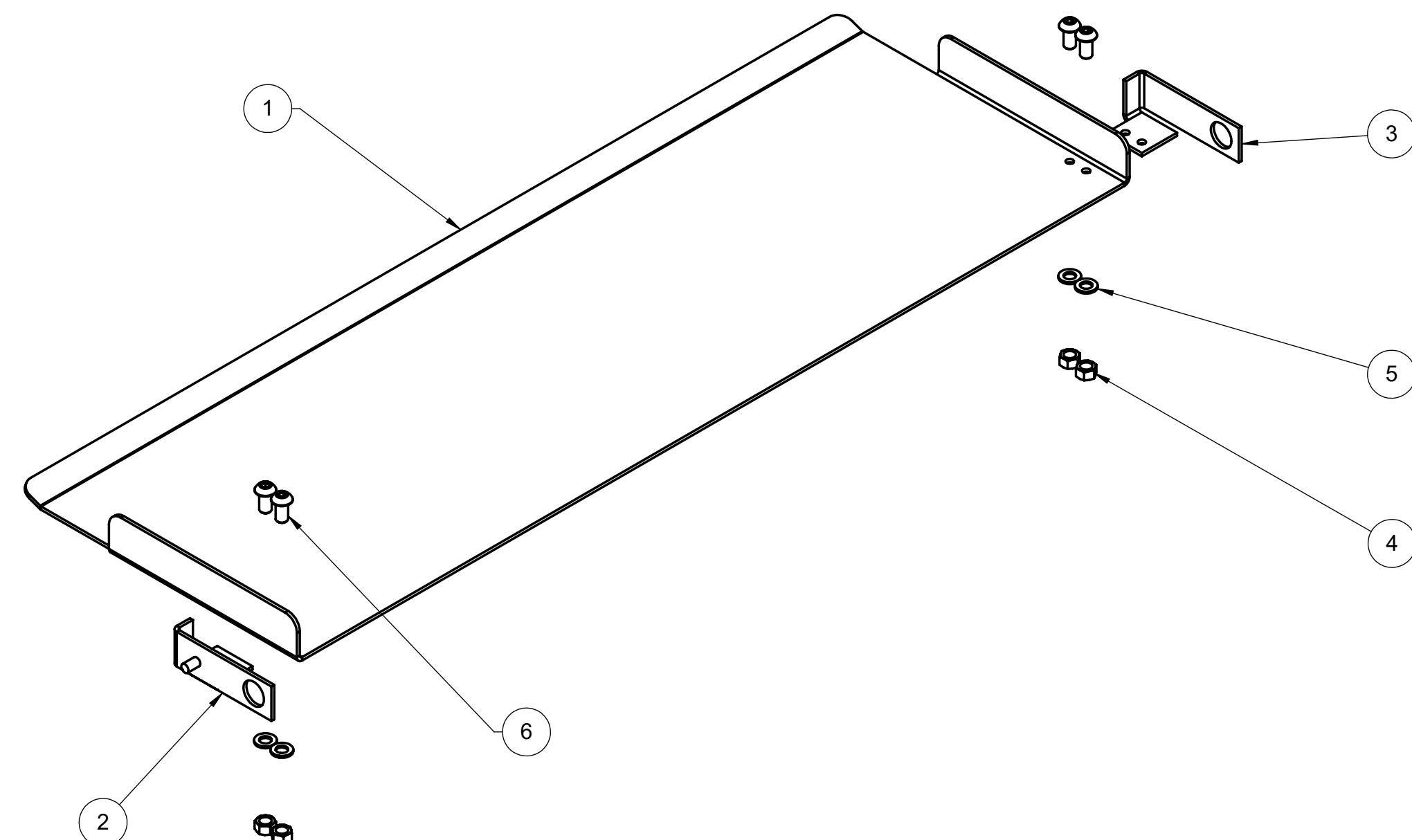
SCALE  
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WEIGHT  
lbs

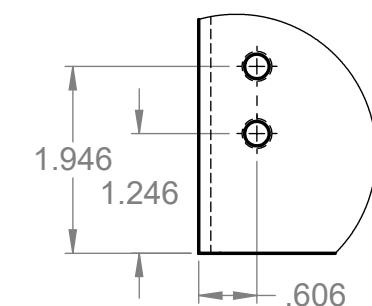
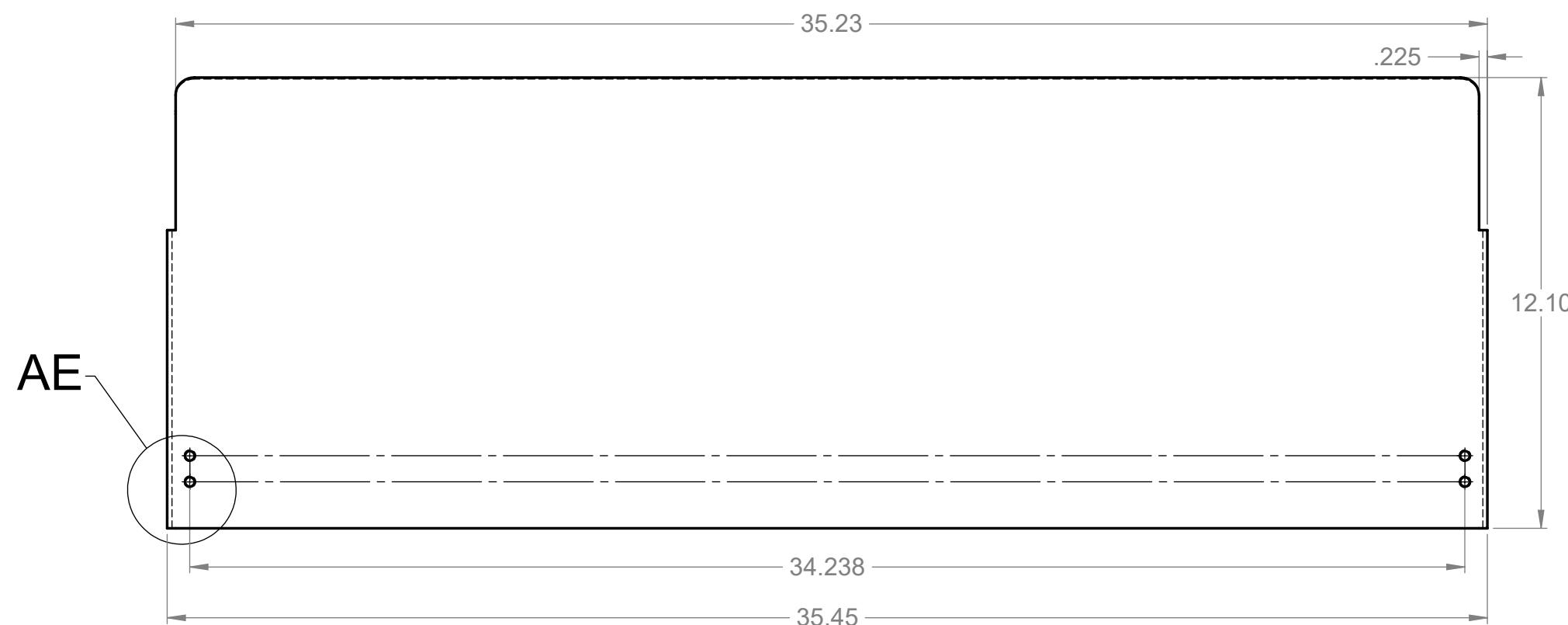
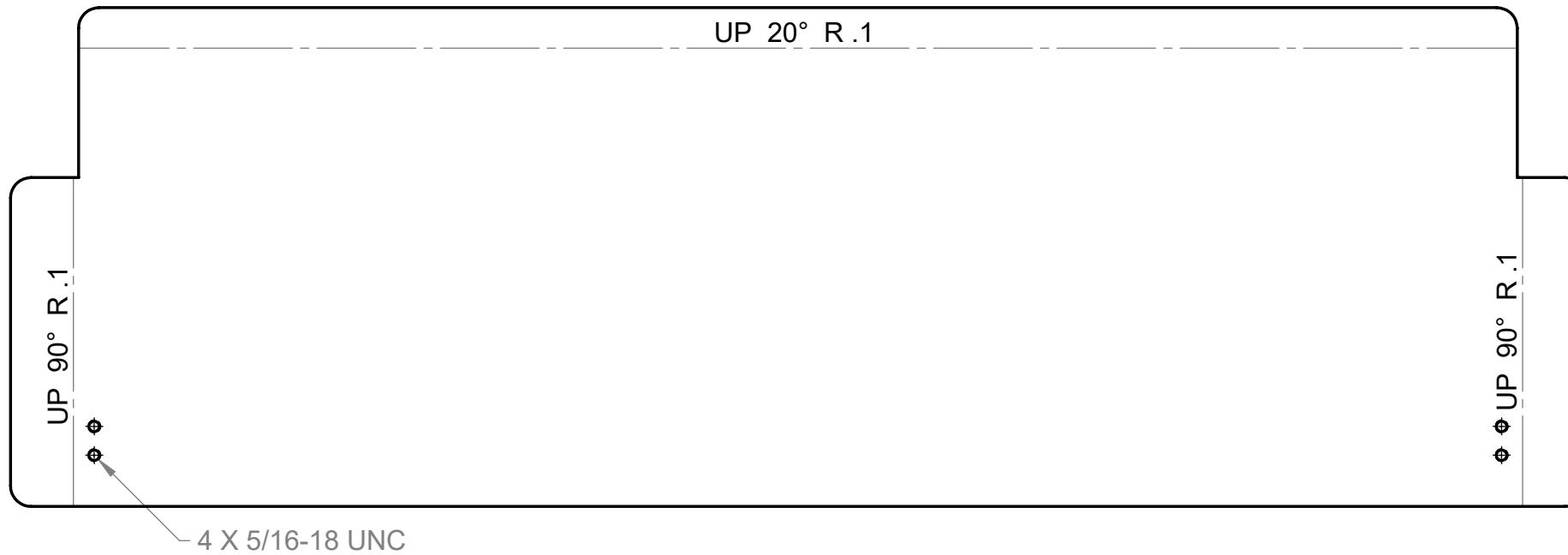
1 OF 1

**D****C****B****A**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	D502-01	BRIDGE PLATE	1
2	D502-02	BRIDGE PLATE BRACKET TYPE 1	1
3	D502-03	BRIDGE PLATE BRACKET TYPE 2	1
4	94575A350	MIL. SPEC. CADMIUM CHROMATE PLATED STEEL HEX NUT, GRADE 5, 3/8"-16 THREAD SIZE, MS-51967-8	4
5	91922A306	STEEL MIL. SPEC. WASHER, CADMIUM-PLATED, 3/8" SCREW SIZE, MS-20002-6	4
6	91255A622	BUTTON HEAD HEX DRIVE SCREW, BLACK-OXIDE ALLOY STEEL, 3/8"-16 THREAD, 3/4" LONG	4



UNLESS OTHERWISE SPECIFIED INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994 DIMENSIONS ARE IN INCHES TOLERANCES APPLY AS SHOWN BELOW		SolidWorks MAINTAINED DATA CHANGES SHALL BE INCORPORATED ELECTRONICALLY BY THE DESIGN ACTIVITY	
0 FL DEC $\pm 0.03$ 1 FL DEC $\pm 0.02$ 2 FL DEC $\pm 0.01$ 3 FL DEC $\pm 0.005$ ANGLES $\pm 0.005$ SURFACE ROUGHNESS      125 $\mu$ in		PROPRIETARY NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM, WITHOUT THE WRITTEN PERMISSION OF Conestoga College.	
CUSTOMER WHEELCHAIR USER PROJECT WHEELCHAIR LIFT		TITLE <b>BRIDGE PLATE SUB ASSEMBLY</b>	
DRAWN BY K. LEE CHECKED BY K. LEE APPROVED K. LEE		DATE 2019.06.08 DATE 2019.06.08 DATE 2019.06.08	
SIZE C DRAWING NO <b>SSA502</b>		SCALE 1:4 WEIGHT g 1 OF 1	



- NOTE:
1. THICKNESS IS .125 INCHES
  2. MATERIAL: 1040 ANNEALED
  3. TYP RADIUS 0.5"

DETAIL AE  
SCALE 1:2

UNLESS OTHERWISE SPECIFIED

DO NOT SCALE DRAWING

INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES

TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	$\pm 0.2$
1 PL DEC	$\pm 0.1$
2 PL DEC	$\pm 0.01$
3 PL DEC	$\pm 0.005$
ANGLES	$\pm .1^\circ$
SURFACE ROUGHNESS	125 $\mu$ in

SolidWorks MAINTAINED DATA  
CHANGES SHALL BE INCORPORATED  
ELECTRONICALLY BY THE DESIGN ACTIVITY

PROPRIETARY

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Conestoga College

CUSTOMER

WHEELCHAIR USER

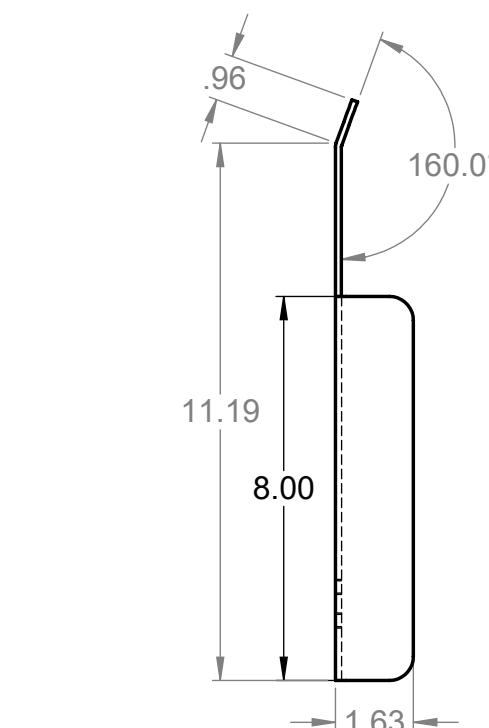
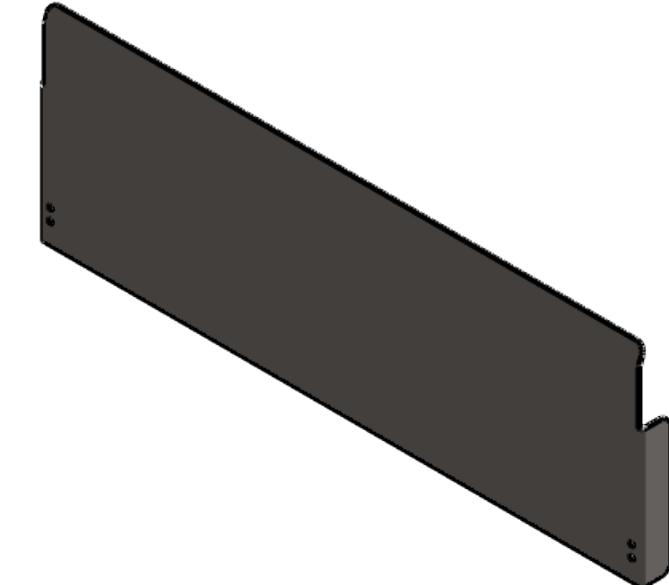
PROJECT

WHEELCHAIR LIFT

THIRD ANGLE PROJECTION



DRAWN BY K. LEE	DATE 2019.06.08
CHECKED BY K. LEE	DATE 2019.06.08
APPROVED K. LEE	DATE 2019.06.08



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Connect Life and Learning

299 Doon Valley Drive, Kitchener, ON, N2G 4M4

# BRIDGE PLATE

**D502-01**

-

**B**

DRAWING NO

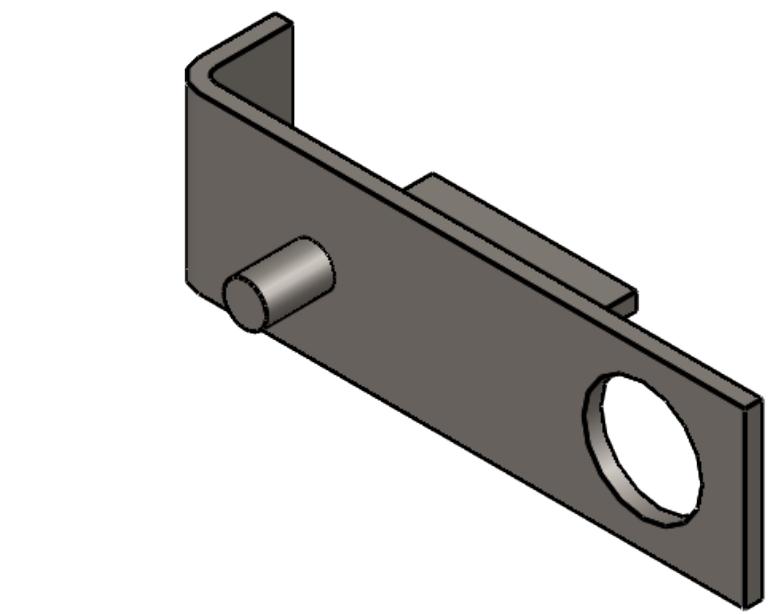
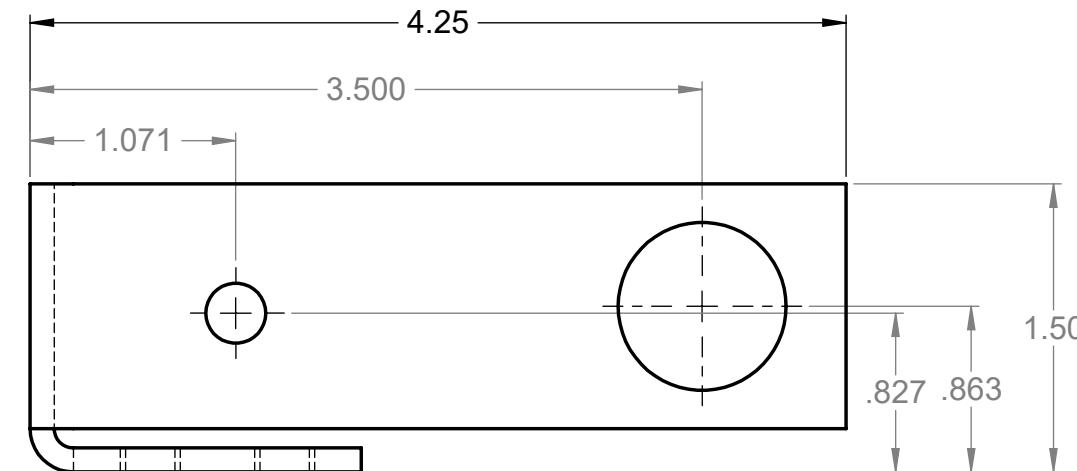
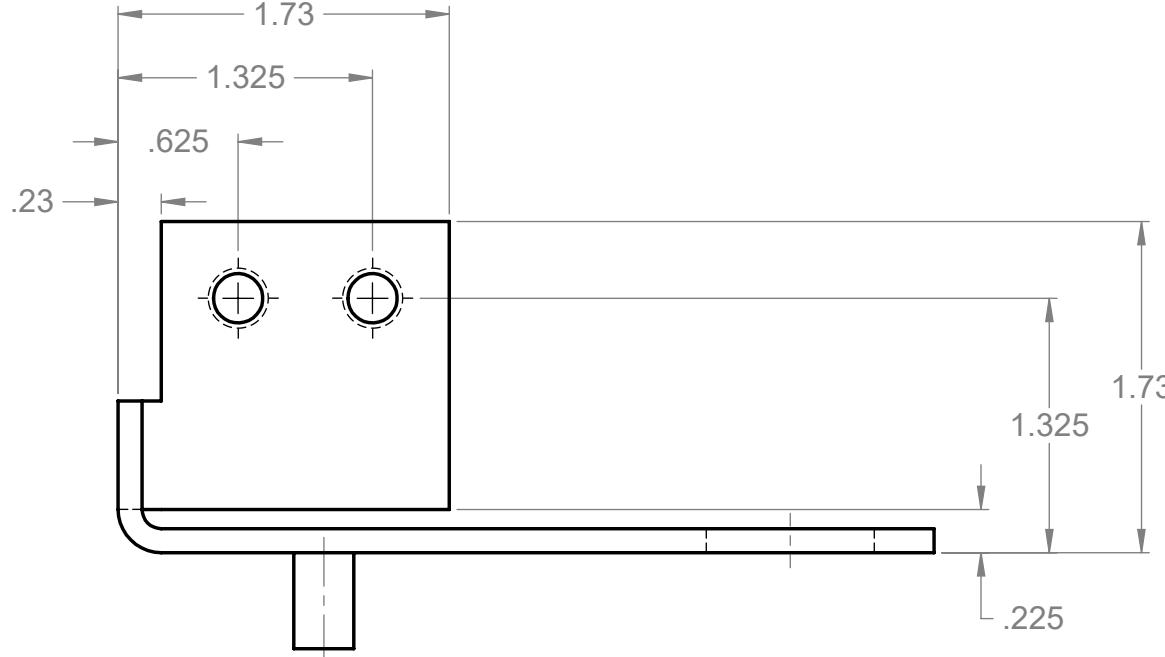
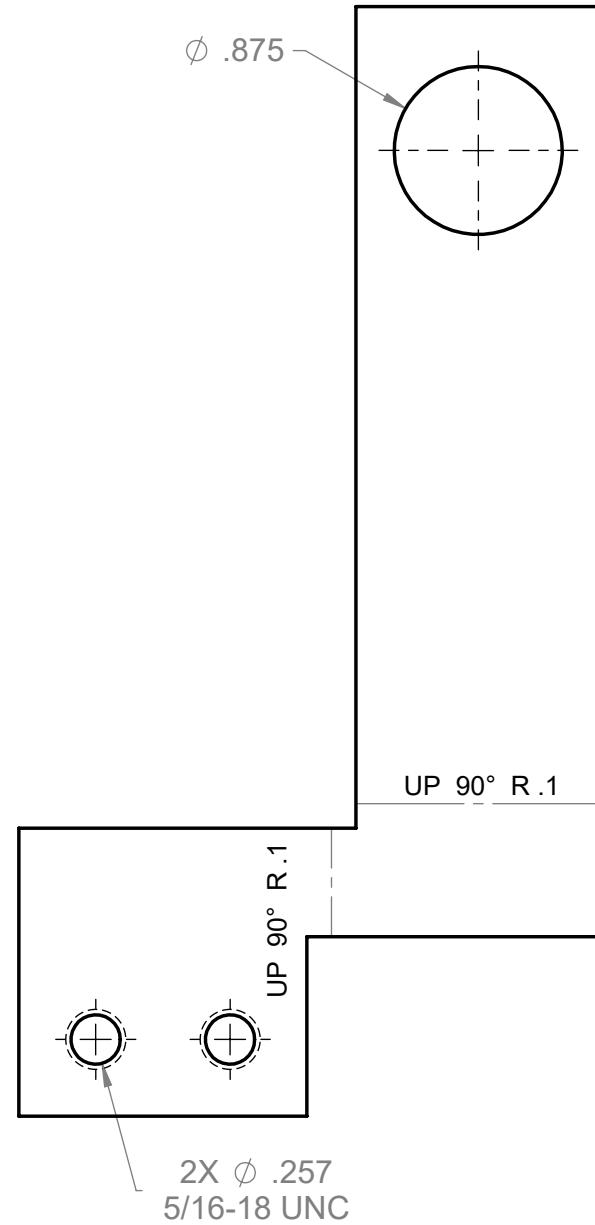
SCALE

1:4

WEIGHT

lbs

1 OF 1



NOTE:  
1. THICKNESS IS .125 INCHES  
2. MATERIAL: 1040 ANNEALED

UNLESS OTHERWISE SPECIFIED

DO NOT SCALE DRAWING

INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES

TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	$\pm 0.2$
1 PL DEC	$\pm 0.1$
2 PL DEC	$\pm 0.01$
3 PL DEC	$\pm 0.005$
ANGLES	$\pm .1^\circ$
SURFACE ROUGHNESS	125 $\mu$ in

THIRD ANGLE PROJECTION



SolidWorks MAINTAINED DATA  
CHANGES SHALL BE INCORPORATED  
ELECTRONICALLY BY THE DESIGN ACTIVITY

PROPRIETARY

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Conestoga College

CUSTOMER

WHEELCHAIR USER

PROJECT

WHEELCHAIR LIFT

DRAWN BY

K. LEE

DATE

2019.06.08

CHECKED BY

K. LEE

DATE

2019.06.08

APPROVED

K. LEE

DATE

2019.06.08

**C** CONESTOGA  
Connect Life and Learning

299 Doon Valley Drive, Kitchener, ON, N2G 4M4

**BRIDGE PLATE BRACKET TYPE 1**

SIZE      DRAWING NO

**B**

1:1

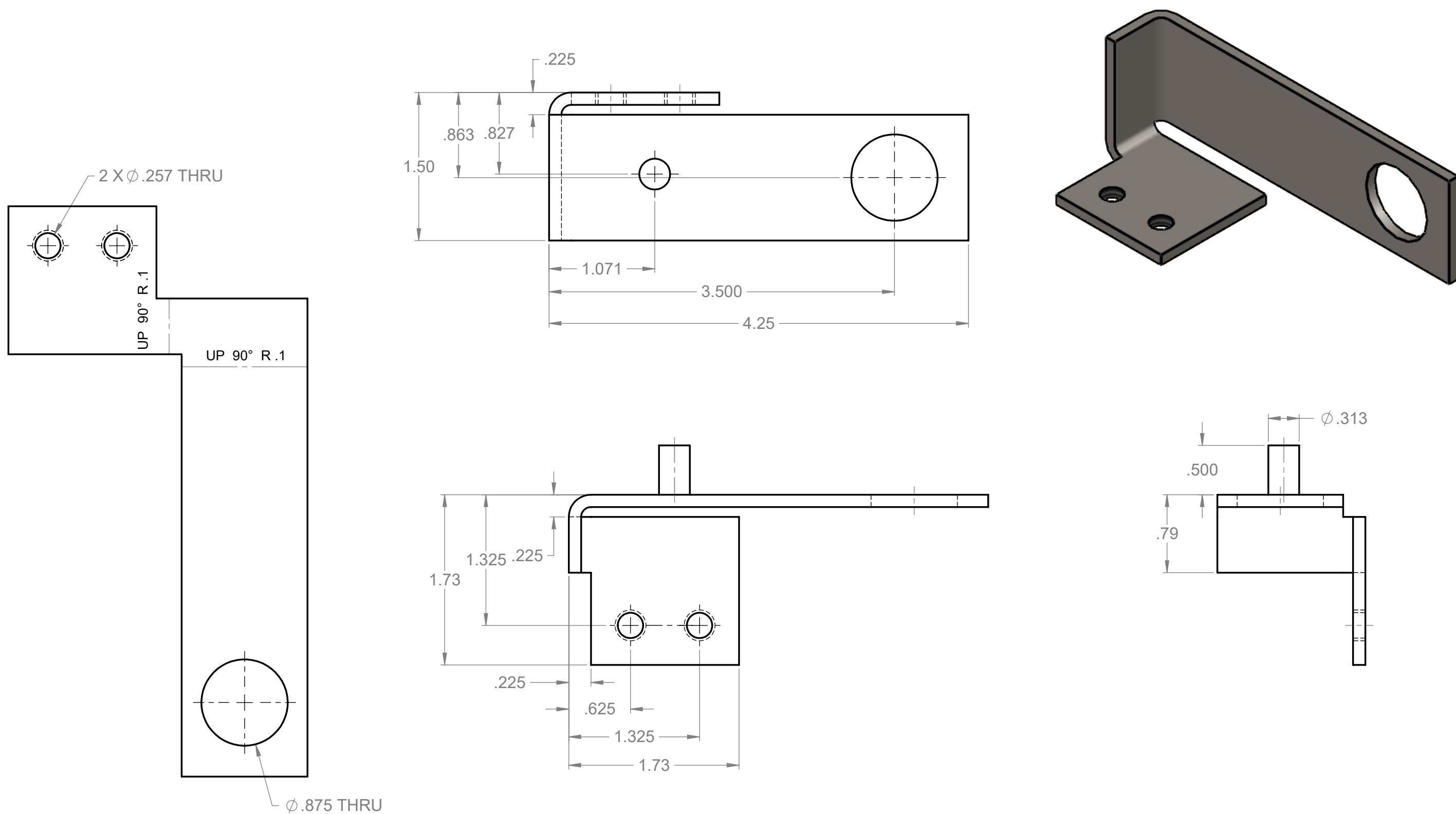
WEIGHT lbs

1 OF 1

**D502-02**

REVISION

-



**NOTE:**

1. THICKNESS IS .125 INCHES
2. MATERIAL: 1040 ANNEALED

UNLESS OTHERWISE SPECIFIED  
DO NOT SCALE DRAWING  
INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES  
TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC  $\pm 0.2$   
1 PL DEC  $\pm 0.1$   
2 PL DEC  $\pm 0.01$   
3 PL DEC  $\pm 0.005$   
ANGLES  $\pm .1^\circ$   
SURFACE ROUGHNESS  $125 \mu\text{in}$

THIRD ANGLE PROJECTION



SolidWorks MAINTAINED DATA  
CHANGES SHALL BE INCORPORATED  
ELECTRONICALLY BY THE DESIGN ACTIVITY

**PROPRIETARY**

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Conestoga College

CUSTOMER

WHEELCHAIR USER

PROJECT

WHEELCHAIR LIFT

DRAWN BY K. LEE	DATE 2019.06.08
CHECKED BY K. LEE	DATE 2019.06.08
APPROVED K. LEE	DATE 2019.06.08

**C** CONESTOGA  
Connect Life and Learning

299 Doon Valley Drive, Kitchener, ON, N2G 4M4

## BRIDGE PLATE BRACKET TYPE 2

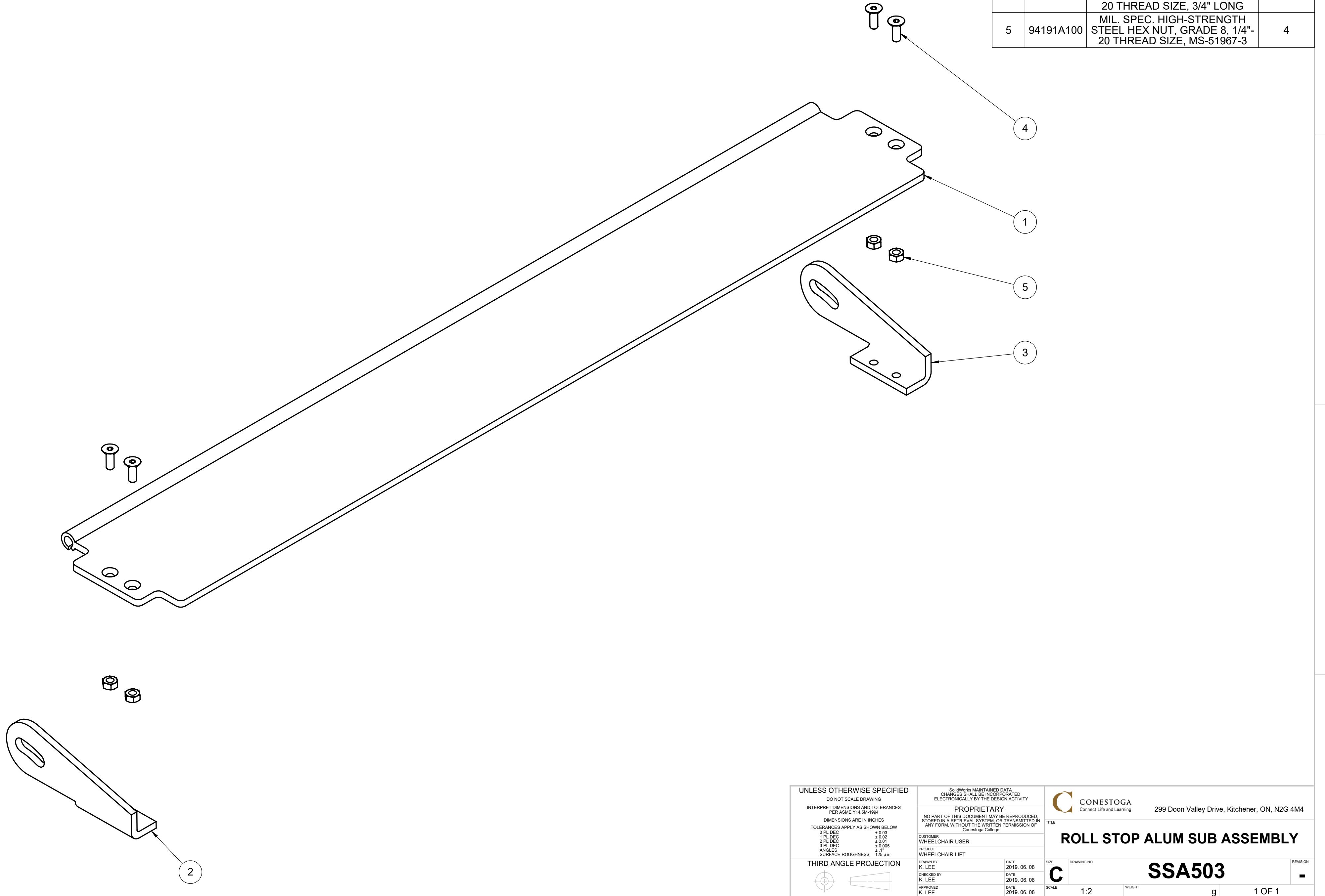
**D502-03**

-

SIZE	DRAWING NO
<b>B</b>	<b>D502-03</b>
SCALE	1:1
WEIGHT	lbs
1 OF 1	

**D****C****B****A**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	D503-01	ROLL STOP-ALUM	1
2	D503-02	LATCH ROLL STOP TYPE 1	1
3	D503-03	LATCH ROLL STOP TYPE 2	1
4	91263A559	ZINC-PLATED ALLOY STEEL HEX DRIVE FLAT HEAD SCREW, 1/4"-20 THREAD SIZE, 3/4" LONG	4
5	94191A100	MIL. SPEC. HIGH-STRENGTH STEEL HEX NUT, GRADE 8, 1/4"-20 THREAD SIZE, MS-51967-3	4



UNLESS OTHERWISE SPECIFIED  
DO NOT SCALE DRAWING  
INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994  
DIMENSIONS ARE IN INCHES  
TOLERANCES APPLY AS SHOWN BELOW  
0 PL DEC       $\pm 0.03$   
1 PL DEC       $\pm 0.02$   
2 PL DEC       $\pm 0.01$   
3 PL DEC       $\pm 0.005$   
ANGLE       $\pm 0.005$   
SURFACE ROUGHNESS       $12.5 \mu\text{in}$

SolidWorks MAINTAINED DATA  
CHANGES SHALL BE INCORPORATED  
ELECTRONICALLY BY THE DESIGN ACTIVITY

PROPRIETARY  
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IN ANY FORM, WITHOUT THE WRITTEN PERMISSION OF  
Conestoga College.

CUSTOMER  
WHEELCHAIR USER  
PROJECT  
WHEELCHAIR LIFT

DRAWN BY  
K. LEE  
DATE  
2019.06.08

CHECKED BY  
K. LEE  
DATE  
2019.06.08

APPROVED  
K. LEE  
DATE  
2019.06.08

THIRD ANGLE PROJECTION

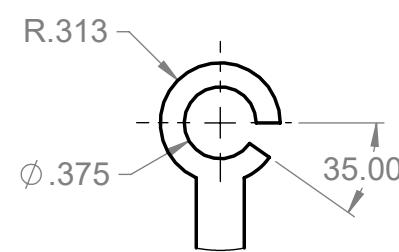
**C CONESTOGA**  
Connect Life and Learning  
299 Doon Valley Drive, Kitchener, ON, N2G 4M4

**ROLL STOP ALUM SUB ASSEMBLY**

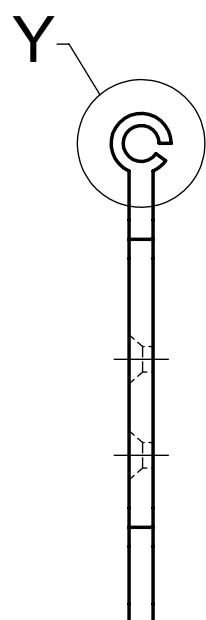
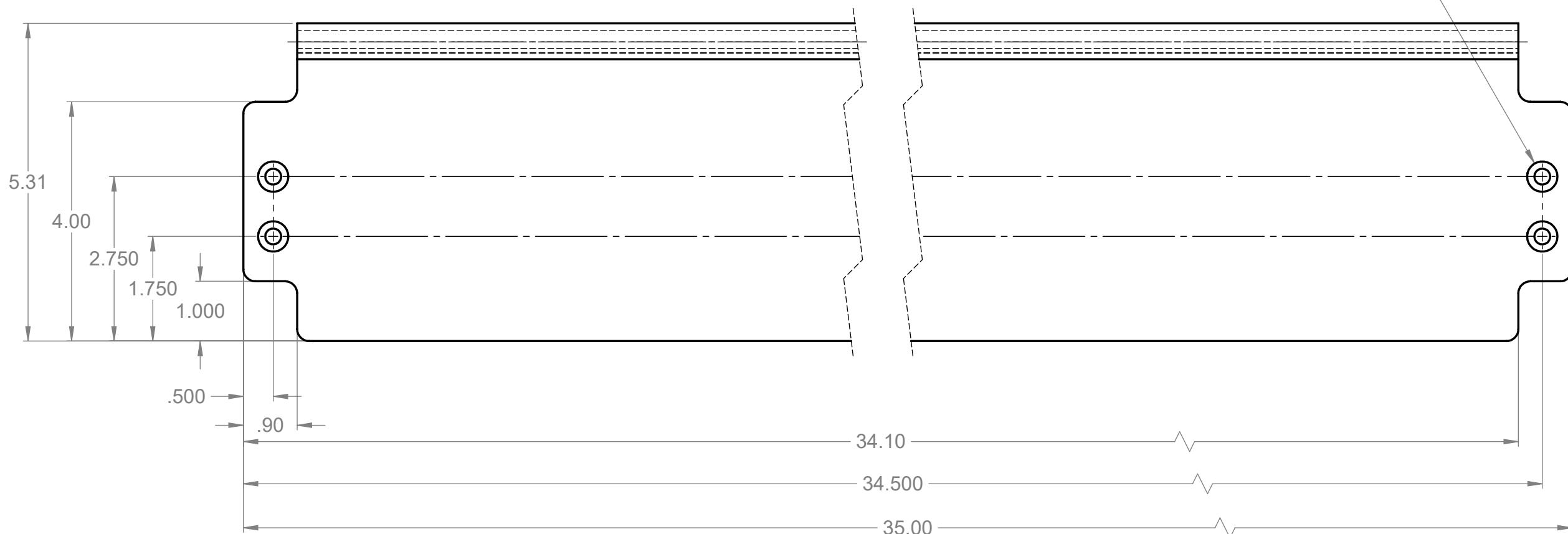
**SSA503**

SIZE      DRAWING NO  
**C**      1:2

WEIGHT  
g      1 OF 1



DETAIL Y  
SCALE 1 : 1

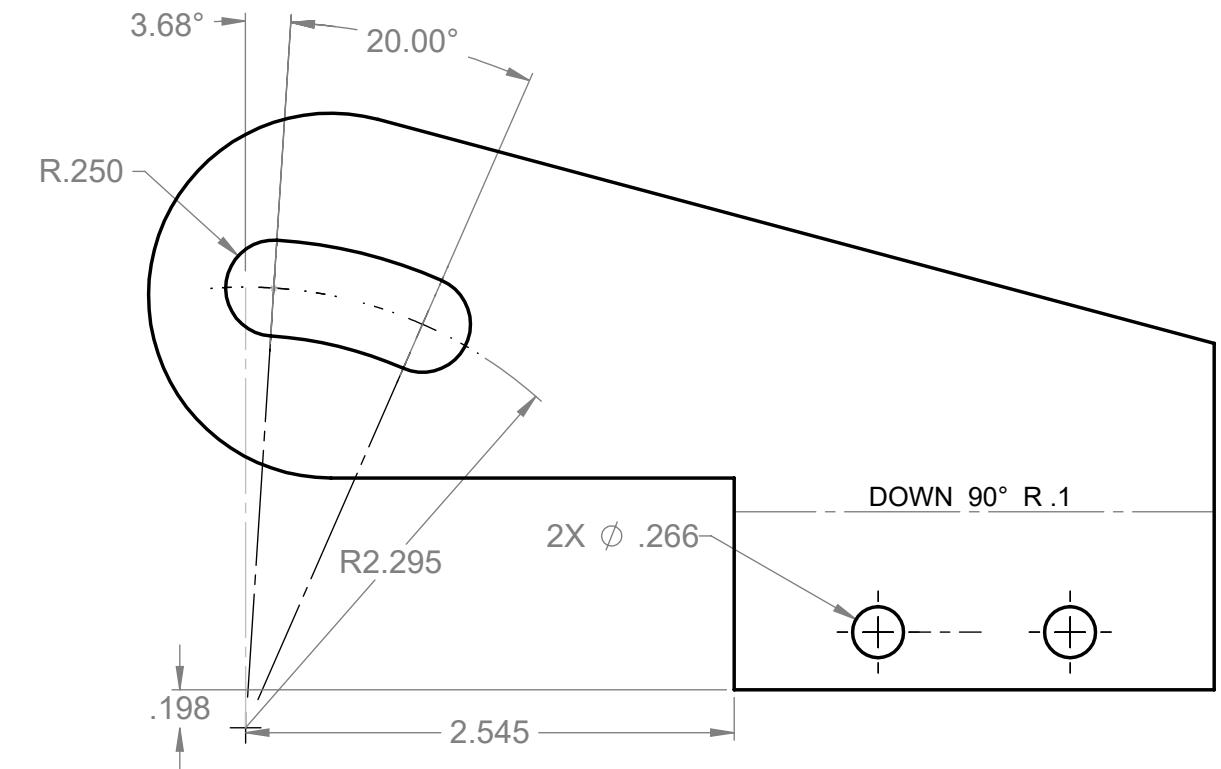
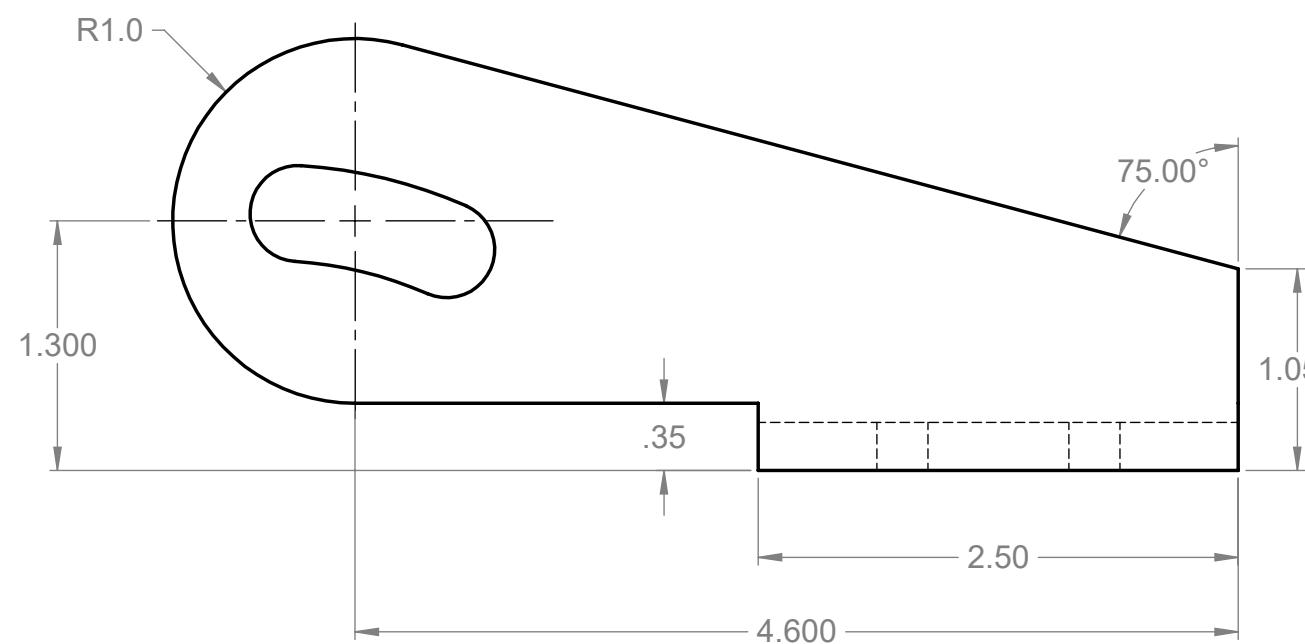
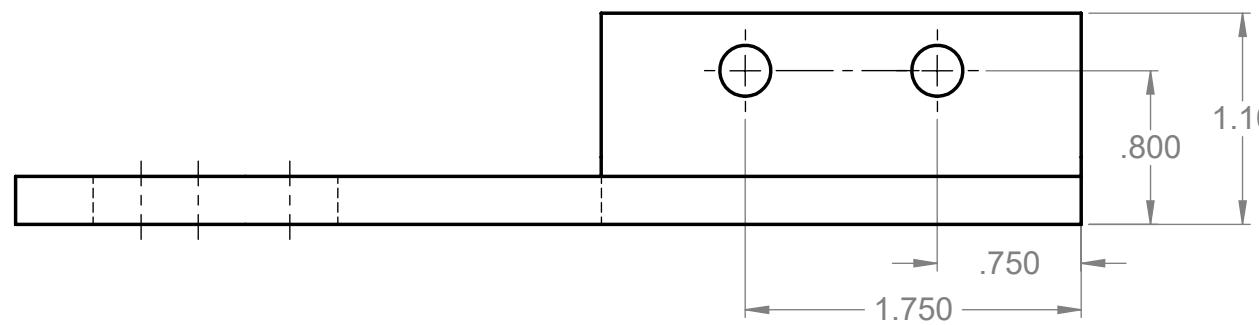
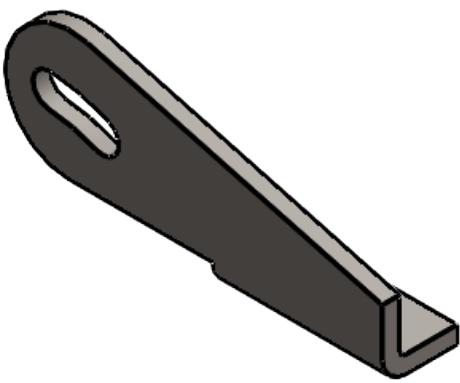


- NOTE:  
 1. THICKNESS IS .25 INCHES  
 2. THE PART IS SYMMETRICAL  
 3. MATERIAL: 1040 ANNEALED  
 4. TYP RADIUS 0.2"

UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994 DIMENSIONS ARE IN INCHES TOLERANCES APPLY AS SHOWN BELOW	
0 PL DEC $\pm 0.2$ 1 PL DEC $\pm 0.1$ 2 PL DEC $\pm 0.01$ 3 PL DEC $\pm 0.005$ ANGLES $\pm .1^\circ$ SURFACE ROUGHNESS      125 $\mu$ in	
PROPRIETARY NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM, WITHOUT THE WRITTEN PERMISSION OF Conestoga College	
CUSTOMER WHEELCHAIR USER PROJECT WHEELCHAIR LIFT	
DRAWN BY K. LEE      DATE 2019.06.08 CHECKED BY K. LEE      DATE 2019.06.08 APPROVED K. LEE      DATE 2019.06.08	
THIRD ANGLE PROJECTION	

SOLIDWORKS MAINTAINED DATA CHANGES SHALL BE INCORPORATED ELECTRONICALLY BY THE DESIGN ACTIVITY
PROPRIETARY NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM, WITHOUT THE WRITTEN PERMISSION OF Conestoga College
CUSTOMER WHEELCHAIR USER PROJECT WHEELCHAIR LIFT
DRAWN BY K. LEE      DATE 2019.06.08 CHECKED BY K. LEE      DATE 2019.06.08 APPROVED K. LEE      DATE 2019.06.08
1:2

<b>C</b>	CONESTOGA Connect Life and Learning	299 Doon Valley Drive, Kitchener, ON, N2G 4M4	<b>ROLL STOP-ALUM</b>	
			<b>D503-01</b>	-
<b>B</b>	DRAWING NO		1:2	WEIGHT lbs
1 OF 1				



**NOTE:**

1. THICKNESS IS .25 INCHES
2. MATERIAL: 1040 ANNEALED

UNLESS OTHERWISE SPECIFIED  
DO NOT SCALE DRAWING  
INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES  
TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	± 0.2
1 PL DEC	± 0.1
2 PL DEC	± 0.01
3 PL DEC	± 0.005
ANGLES	± .1°
SURFACE ROUGHNESS	125 $\mu$ in

THIRD ANGLE PROJECTION



SolidWorks MAINTAINED DATA  
CHANGES SHALL BE INCORPORATED  
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Conestoga College

CUSTOMER

WHEELCHAIR USER

PROJECT

WHEELCHAIR LIFT

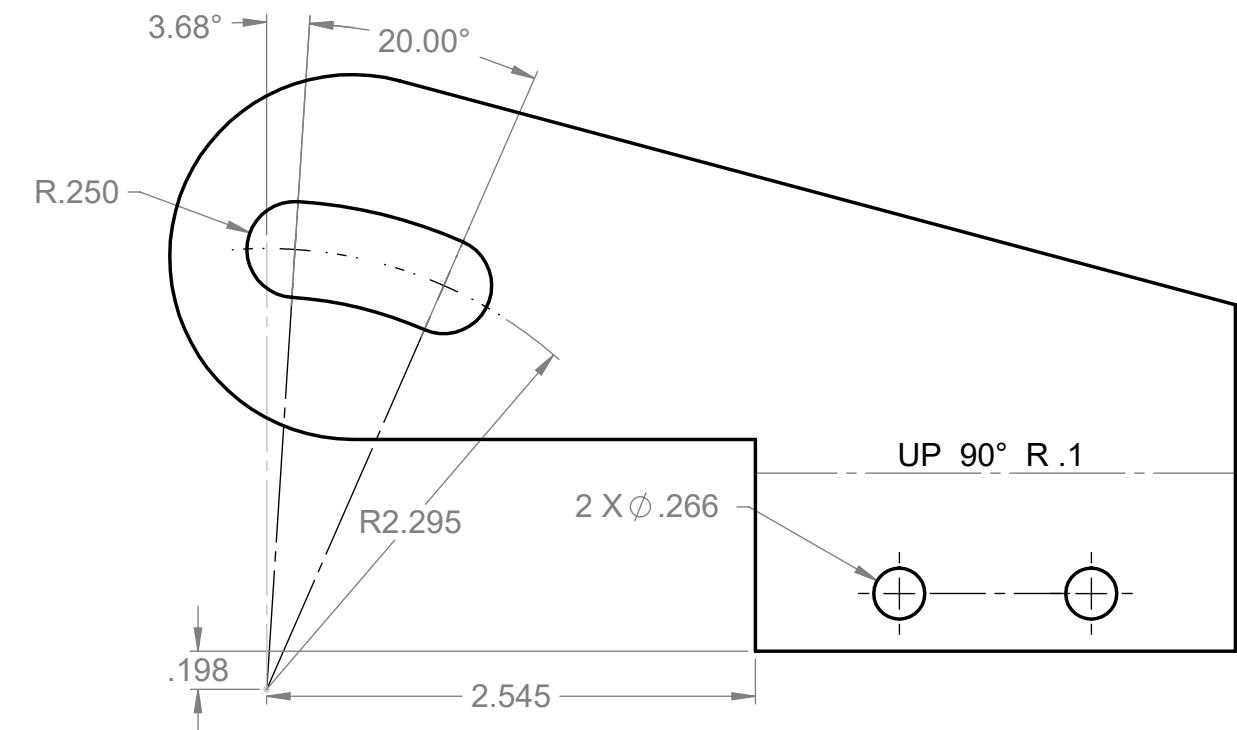
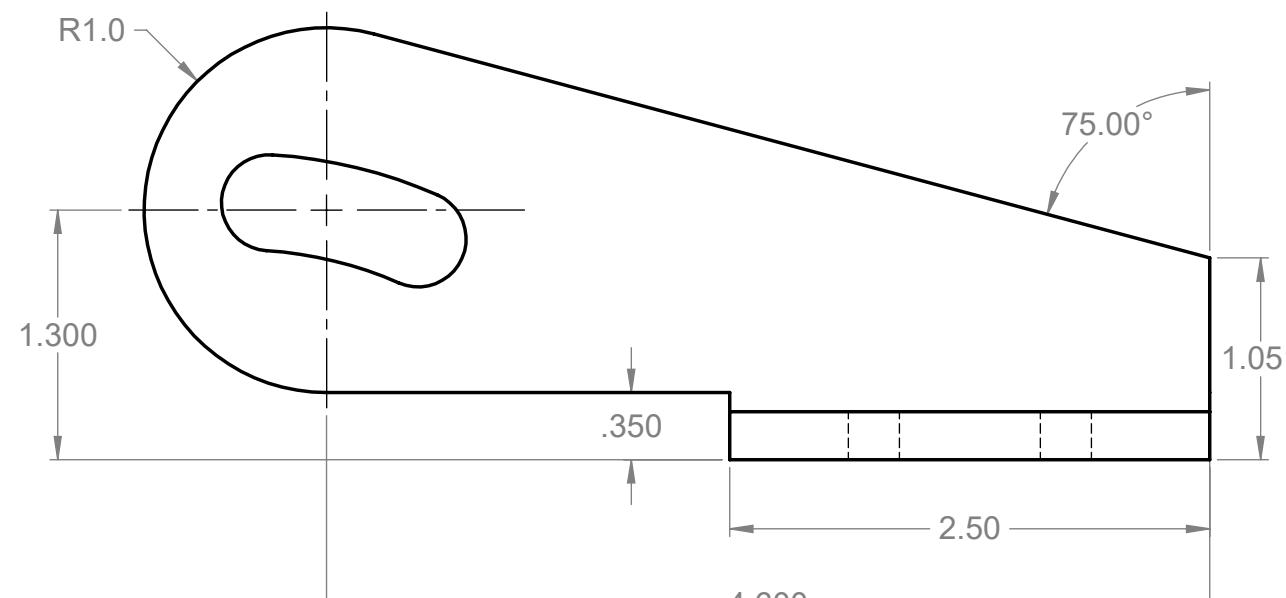
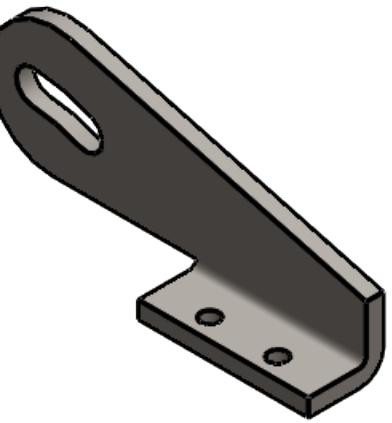
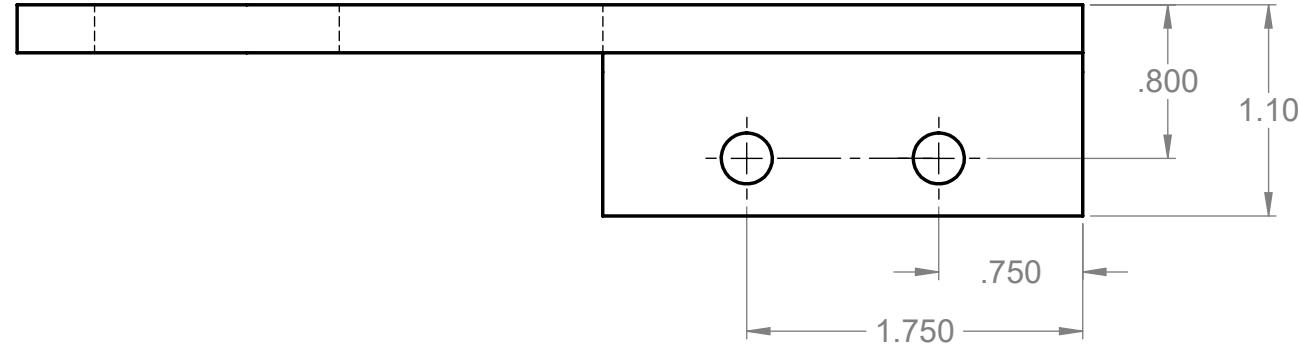
DRAWN BY K. LEE	DATE 2019.06.08
CHECKED BY K. LEE	DATE 2019.06.08
APPROVED K. LEE	DATE 2019.06.08

**C** CONESTOGA  
Connect Life and Learning

299 Doon Valley Drive, Kitchener, ON, N2G 4M4

**LATCH ROLL STOP TYPE 1**  
**D503-02**

SIZE	DRAWING NO	REVISION
B	1:1	-
SCALE	WEIGHT	1 OF 1
	lbs	



**NOTE:**

1. THICKNESS IS .25 INCHES
2. MATERIAL: 1040 ANNEALED

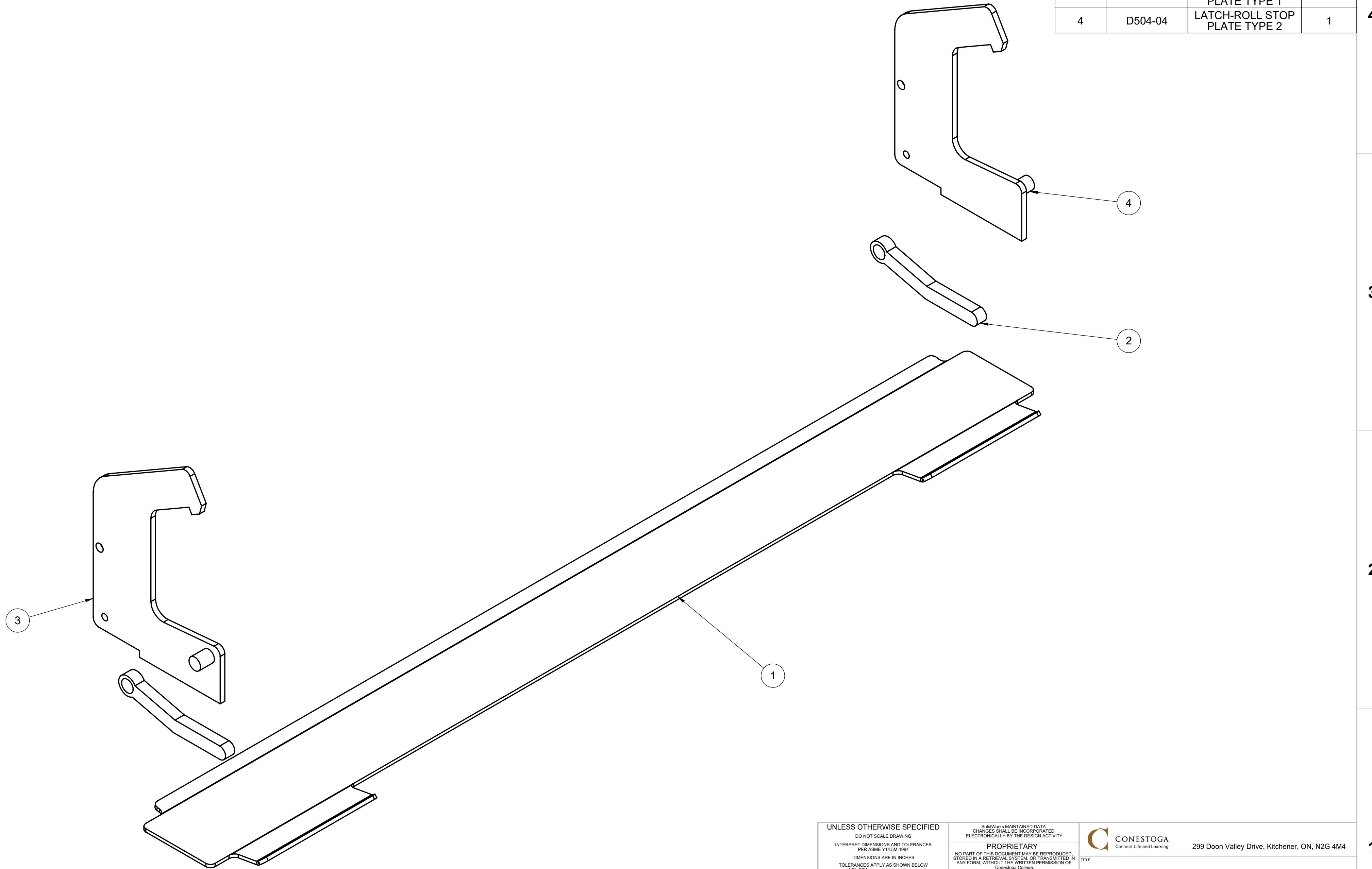
UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994 DIMENSIONS ARE IN INCHES TOLERANCES APPLY AS SHOWN BELOW	
0 PL DEC $\pm 0.2$ 1 PL DEC $\pm 0.1$ 2 PL DEC $\pm 0.01$ 3 PL DEC $\pm 0.005$ ANGLES $\pm .1^\circ$ SURFACE ROUGHNESS $125 \mu\text{in}$	
<b>THIRD ANGLE PROJECTION</b>	

SolidWorks MAINTAINED DATA CHANGES SHALL BE INCORPORATED ELECTRONICALLY BY THE DESIGN ACTIVITY	
<b>PROPRIETARY</b>	
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CUSTOMER WHEELCHAIR USER	
PROJECT WHEELCHAIR LIFT	
DRAWN BY K. LEE	DATE 2019.06.08
CHECKED BY K. LEE	DATE 2019.06.08
APPROVED K. LEE	DATE 2019.06.08

<b>C</b>	CONESTOGA		299 Doon Valley Drive, Kitchener, ON, N2G 4M4
	TITLE		
<b>LATCH ROLL STOP TYPE 2</b>			
<b>B</b>	DRAWING NO		
	SCALE	1:1	WEIGHT lbs
			1 OF 1

**D****C****B****A**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	D504-01	ACTIVATION FOOT	1
2	D504-02	ACTIVATION FOOT WELDMENT PART	2
3	D504-03	LATCH-ROLL STOP PLATE TYPE 1	1
4	D504-04	LATCH-ROLL STOP PLATE TYPE 2	1



UNLESS OTHERWISE SPECIFIED  
DO NOT SCALE DRAWING  
INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994  
DIMENSIONS ARE IN INCHES  
TOLERANCES APPLY AS SHOWN BELOW  
0 FL DEC       $\pm 0.03$   
1 FL DEC       $\pm 0.02$   
2 FL DEC       $\pm 0.01$   
3 FL DEC       $\pm 0.005$   
ANGLES       $\pm 0.5^\circ$   
SURFACE ROUGHNESS      125  $\mu$  in

THIRD ANGLE PROJECTION

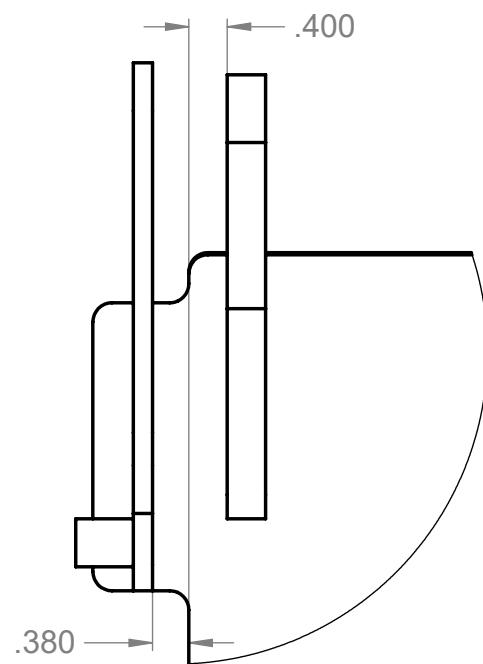
SolidWorks MAINTAINED DATA  
CHANGES SHALL BE INCORPORATED  
ELECTRONICALLY BY THE DESIGN ACTIVITY  
  
PROPRIETARY  
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Conestoga College.  
  
CUSTOMER  
WHEELCHAIR USER  
PROJECT  
WHEELCHAIR LIFT

DRAWN BY  
K. LEE  
CHECKED BY  
K. LEE  
APPROVED  
K. LEE

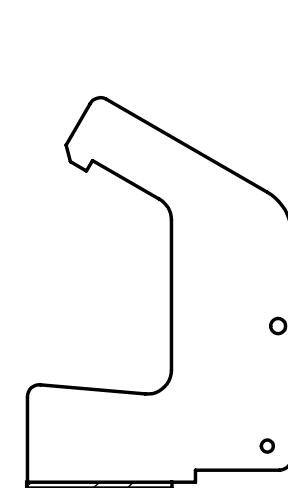
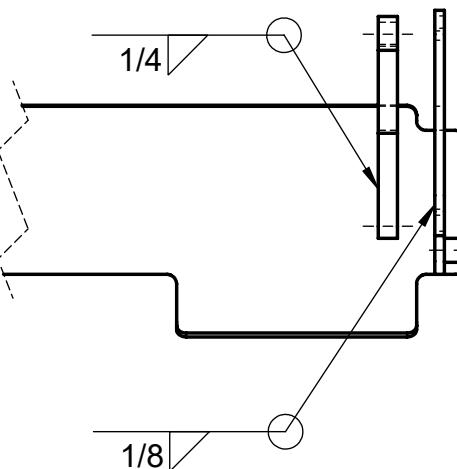
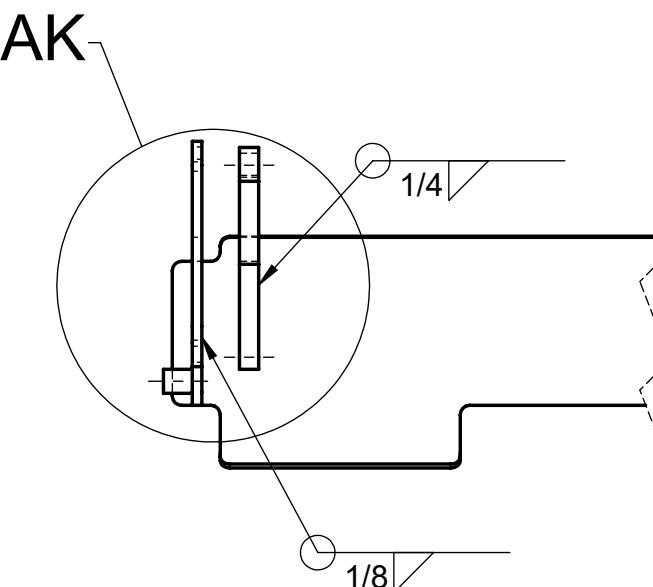
DATE  
2019.06.08  
DATE  
2019.06.08  
DATE  
2019.06.08

C CONESTOGA  
Connect Life and Learning  
299 Doon Valley Drive, Kitchener, ON, N2G 4M4  
  
TITLE  
  
ROLL STOP ACTIVATION FOOT SUB ASSEMBLY  
  
DRAWING NO  
C  
SCALE  
1:2  
WEIGHT  
g  
1 OF 1  
REVISION  
-

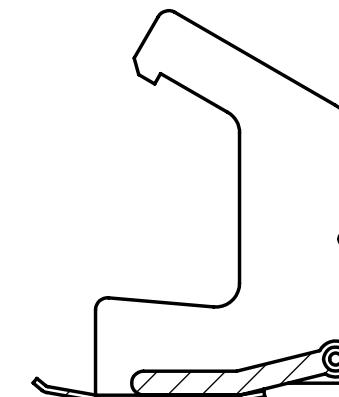
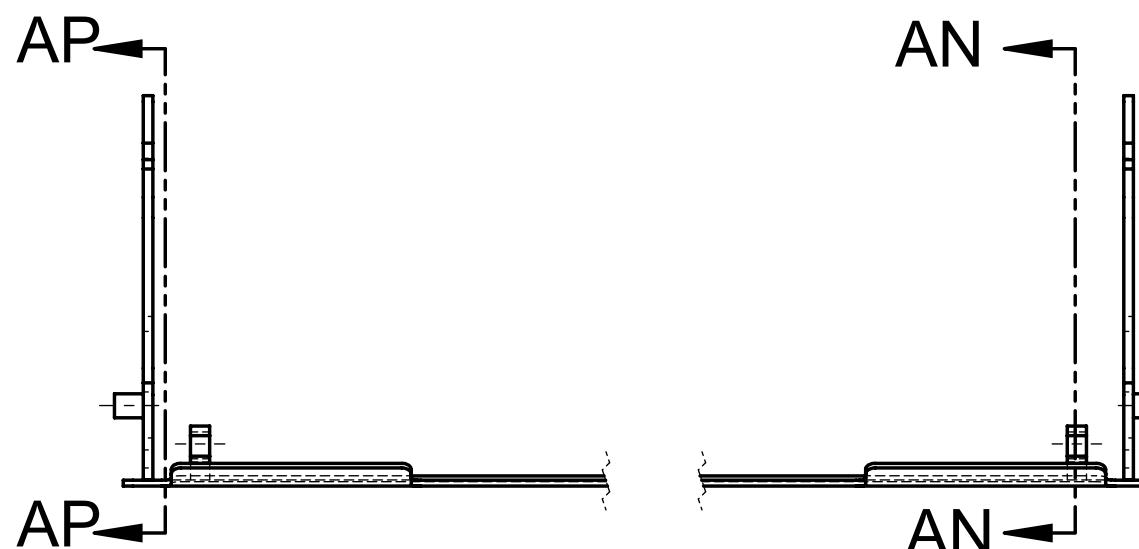
**D****C****B****A**



DETAIL AK  
SCALE 1:2



SECTION AP-AP  
SCALE 1 : 4



SECTION AN-AN  
SCALE 1 : 4

NOTE:  
1. THE ASSEMBLY AND WELDMENT ARE SYMMETRICAL

UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994 DIMENSIONS ARE IN INCHES TOLERANCES APPLY AS SHOWN BELOW	
0 PL DEC $\pm 0.2$ 1 PL DEC $\pm 0.1$ 2 PL DEC $\pm 0.01$ 3 PL DEC $\pm 0.005$ ANGLES $\pm .1^\circ$ SURFACE ROUGHNESS $125 \mu\text{in}$	
PROPRIETARY NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM, WITHOUT THE WRITTEN PERMISSION OF Conestoga College	
CUSTOMER WHEELCHAIR USER PROJECT WHEELCHAIR LIFT	
DRAWN BY K. LEE      DATE 2019.06.08 CHECKED BY K. LEE      DATE 2019.06.08 APPROVED K. LEE      DATE 2019.06.08	
THIRD ANGLE PROJECTION	

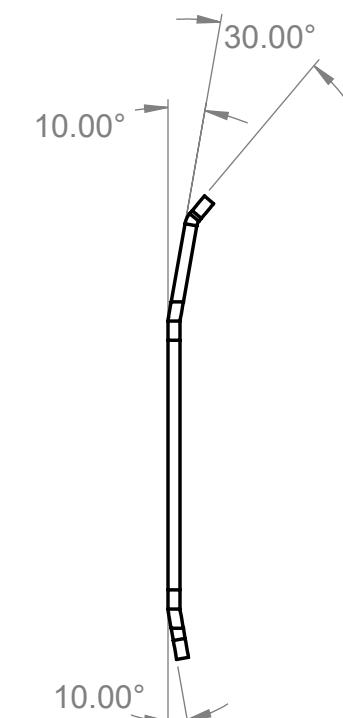
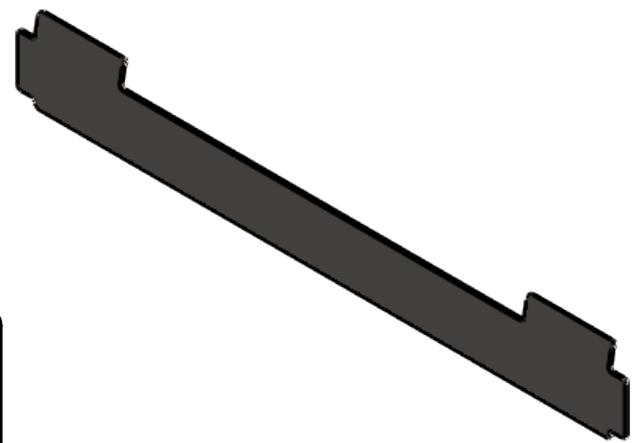
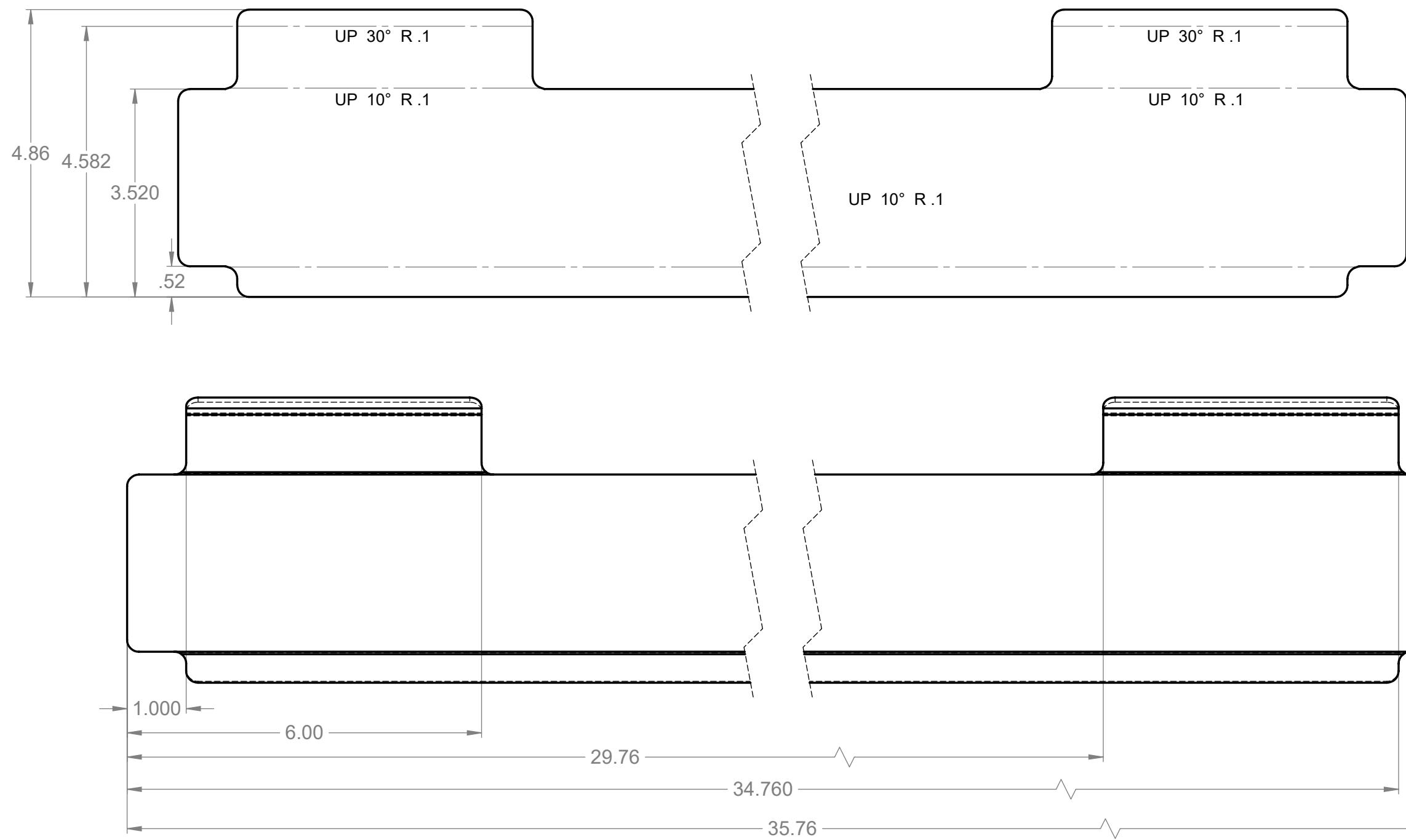
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CUSTOMER WHEELCHAIR USER PROJECT WHEELCHAIR LIFT
DRAWN BY K. LEE      DATE 2019.06.08 CHECKED BY K. LEE      DATE 2019.06.08 APPROVED K. LEE      DATE 2019.06.08
SCALE      DRAWING NO 1:4      WA504

**C** CONESTOGA  
Connect Life and Learning

299 Doon Valley Drive, Kitchener, ON, N2G 4M4

## ACTIVATION FOOT WELDMENT

SIZE	DRAWING NO	REVISION
B	WA504	-
SCALE	1:4	WEIGHT lbs
		1 OF 1

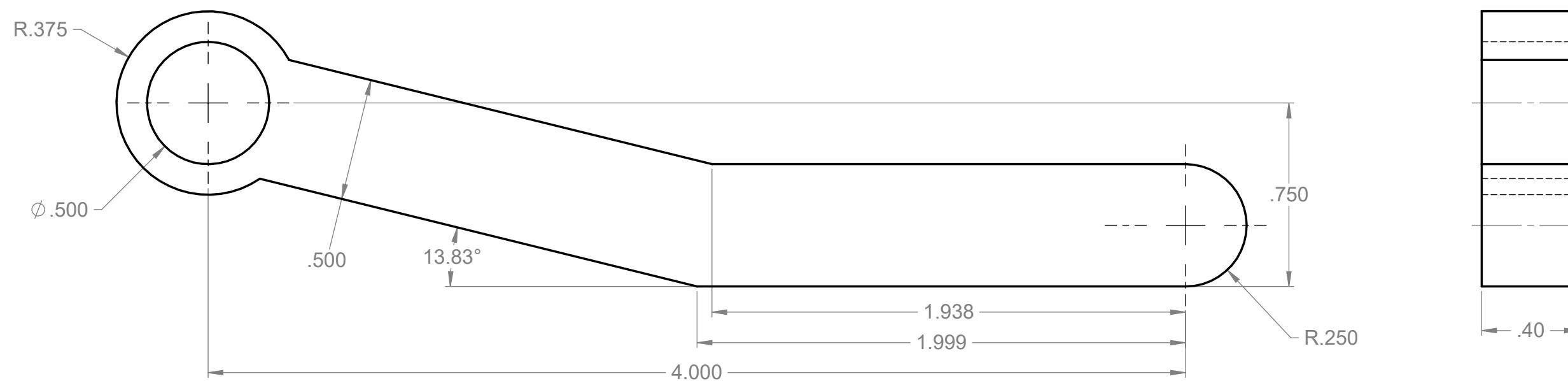
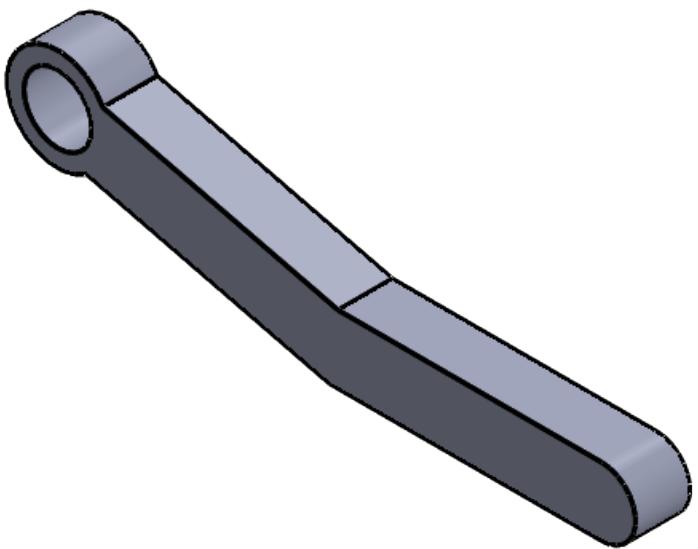


- NOTE:**
1. THICKNESS IS .125 INCHES
  2. MATERIAL: 1040 ANNEALED
  3. THE PART IS SYMMETRICAL
  4. TYP RADIUS 0.2"

UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994 DIMENSIONS ARE IN INCHES TOLERANCES APPLY AS SHOWN BELOW	
0 PL DEC $\pm 0.2$ 1 PL DEC $\pm 0.1$ 2 PL DEC $\pm 0.01$ 3 PL DEC $\pm 0.005$ ANGLES $\pm .1^\circ$ SURFACE ROUGHNESS      125 $\mu$ in	
<b>THIRD ANGLE PROJECTION</b>	

SolidWorks MAINTAINED DATA CHANGES SHALL BE INCORPORATED ELECTRONICALLY BY THE DESIGN ACTIVITY	
<b>PROPRIETARY</b>	
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CUSTOMER <b>WHEELCHAIR USER</b> PROJECT <b>WHEELCHAIR LIFT</b>	
DRAWN BY K. LEE      DATE 2019.06.08 CHECKED BY K. LEE      DATE 2019.06.08 APPROVED K. LEE      DATE 2019.06.08	

<b>C</b>	CONESTOGA Connect Life and Learning		299 Doon Valley Drive, Kitchener, ON, N2G 4M4
	TITLE		
<b>ACTIVATION FOOT</b>			
DRAWING NO	<b>B</b>	REVISION	-
SCALE	1:2	WEIGHT	lbs
		1 OF 1	



UNLESS OTHERWISE SPECIFIED  
DO NOT SCALE DRAWING

INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES

TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	$\pm 0.2$
1 PL DEC	$\pm 0.1$
2 PL DEC	$\pm 0.01$
3 PL DEC	$\pm 0.005$
ANGLES	$\pm .1^\circ$
SURFACE ROUGHNESS	125 $\mu$ in

THIRD ANGLE PROJECTION



SolidWorks MAINTAINED DATA  
CHANGES SHALL BE INCORPORATED  
ELECTRONICALLY BY THE DESIGN ACTIVITY

**PROPRIETARY**

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Conestoga College

CUSTOMER

WHEELCHAIR USER

PROJECT

WHEELCHAIR LIFT

DRAWN BY

K. LEE

DATE

2019.06.08

CHECKED BY

K. LEE

DATE

2019.06.08

APPROVED

K. LEE

DATE

2019.06.08



299 Doon Valley Drive, Kitchener, ON, N2G 4M4

## ACTIVATION FOOT WELDMENT PART

**B** DRAWING NO

**D504-02**

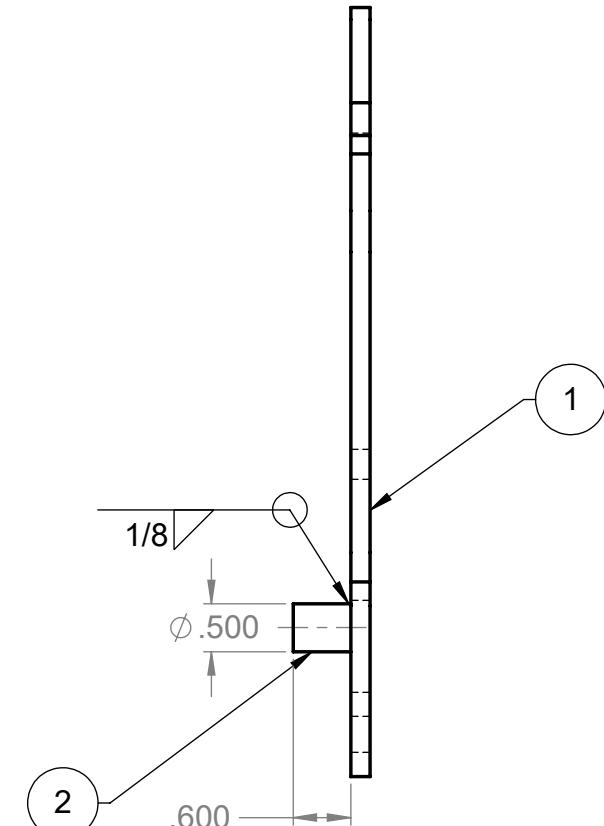
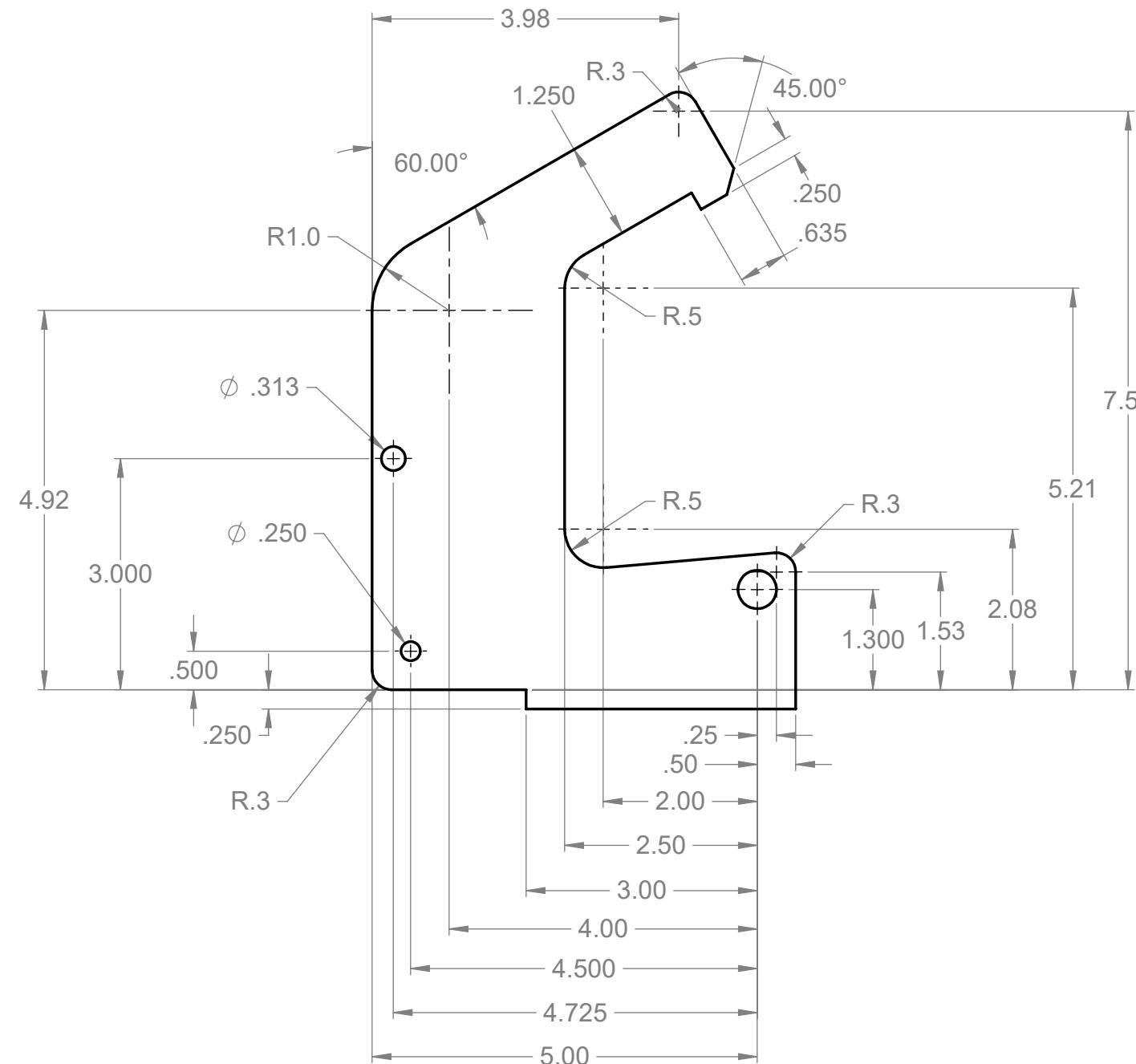
REVISION

-

SCALE 2:1 WEIGHT lbs

1 OF 1

NOTE:  
1. MATERIAL: 1040 ANNEALED



ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	D504-03	LATCH-ROLL STOP PLATE TYPE 1	1
2		ROUND BAR Ø 0.5 X 0.6	1

UNLESS OTHERWISE SPECIFIED  
DO NOT SCALE DRAWING  
INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES

TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	± 0.2
1 PL DEC	± 0.1
2 PL DEC	± 0.01
3 PL DEC	± 0.005
ANGLES	± 1°
SURFACE ROUGHNESS	125 $\mu$ in

THIRD ANGLE PROJECTION



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CUSTOMER

WHEELCHAIR USER

PROJECT

WHEELCHAIR LIFT

DRAWN BY

K. LEE

CHECKED BY

K. LEE

APPROVED

K. LEE

DATE

2019.06.08

DATE

2019.06.08

DATE

2019.06.08



CONESTOGA  
Connect Life and Learning

299 Doon Valley Drive, Kitchener, ON, N2G 4M4

## LATCH-ROLL STOP PLATE TYPE 1

B

DRAWING NO

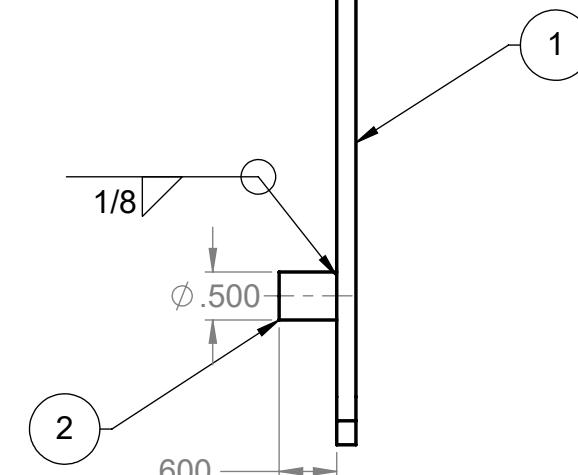
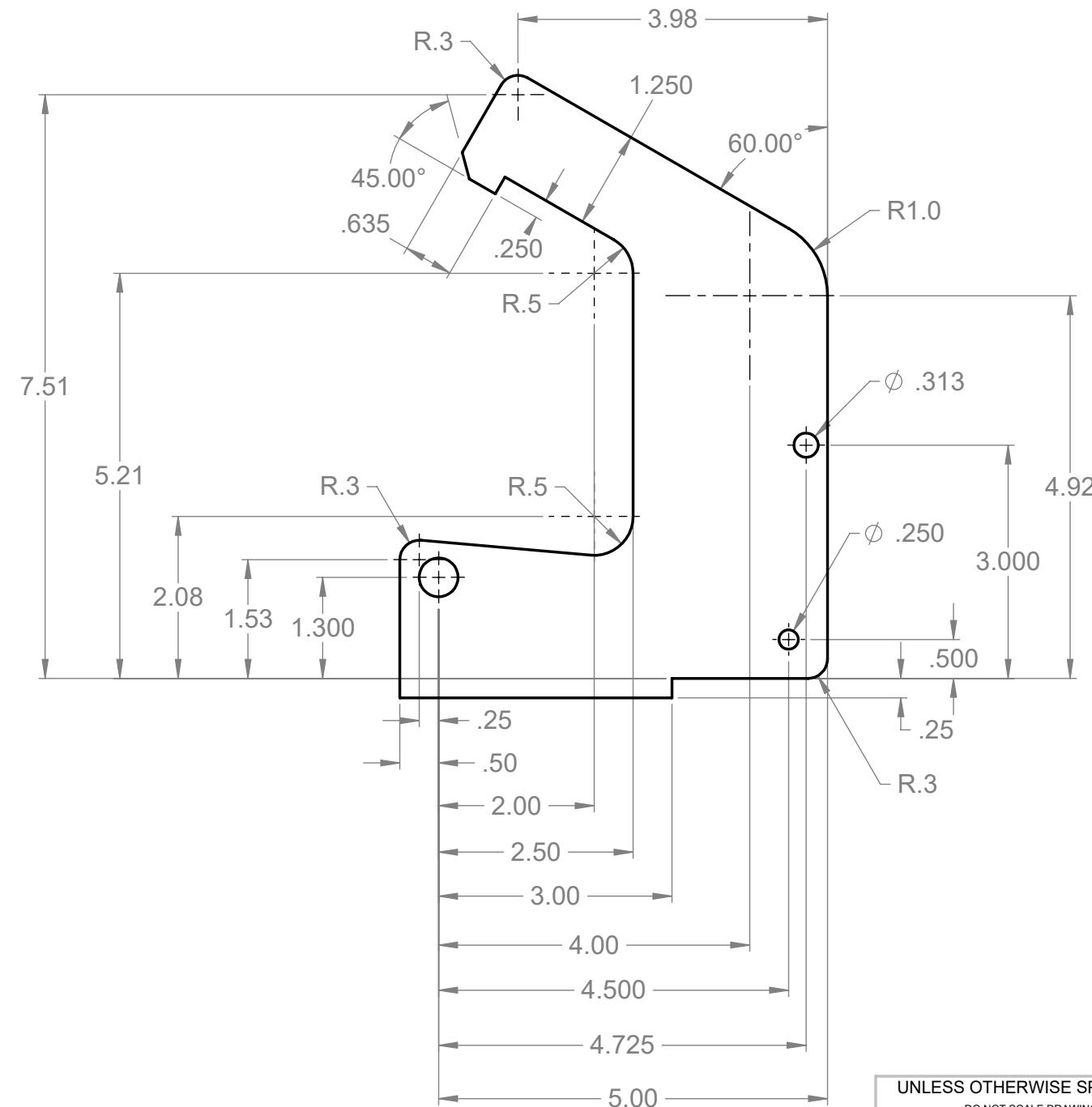
D504-03

REVISION

NOTE:

1. THICKNESS IS .2 INCHES
2. MATERIAL: 1040 ANNEALED

SIZE 1:2 DRAWING NO B SCALE 1:2 WEIGHT lbs TITLE 1 OF 1



- NOTE:**
1. THICKNESS IS .2 INCHES
  2. MATERIAL: 1040 ANNEALED

UNLESS OTHERWISE SPECIFIED  
DO NOT SCALE DRAWING

INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES

TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	$\pm 0.2$
1 PL DEC	$\pm 0.1$
2 PL DEC	$\pm 0.01$
3 PL DEC	$\pm 0.005$
ANGLES	$\pm 1^\circ$
SURFACE ROUGHNESS	125 $\mu$ in

THIRD ANGLE PROJECTION



SolidWorks MAINTAINED DATA  
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ELECTRONICALLY BY THE DESIGN ACTIVITY

**PROPRIETARY**

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Conestoga College

CUSTOMER  
WHEELCHAIR USER

PROJECT  
WHEELCHAIR LIFT

DRAWN BY  
K. LEE

DATE  
2019.06.08

CHECKED BY  
K. LEE

DATE  
2019.06.08

APPROVED  
K. LEE

DATE  
2019.06.08



299 Doon Valley Drive, Kitchener, ON, N2G 4M4

## LATCH-ROLL STOP PLATE TYPE 2

**B**

DRAWING NO

**D504-04**

REVISION

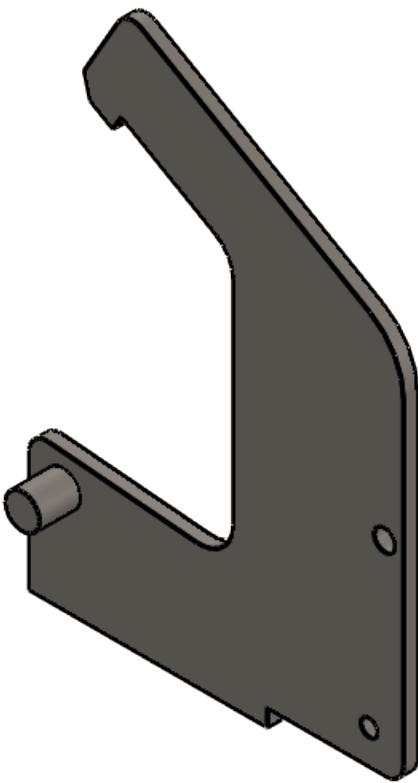
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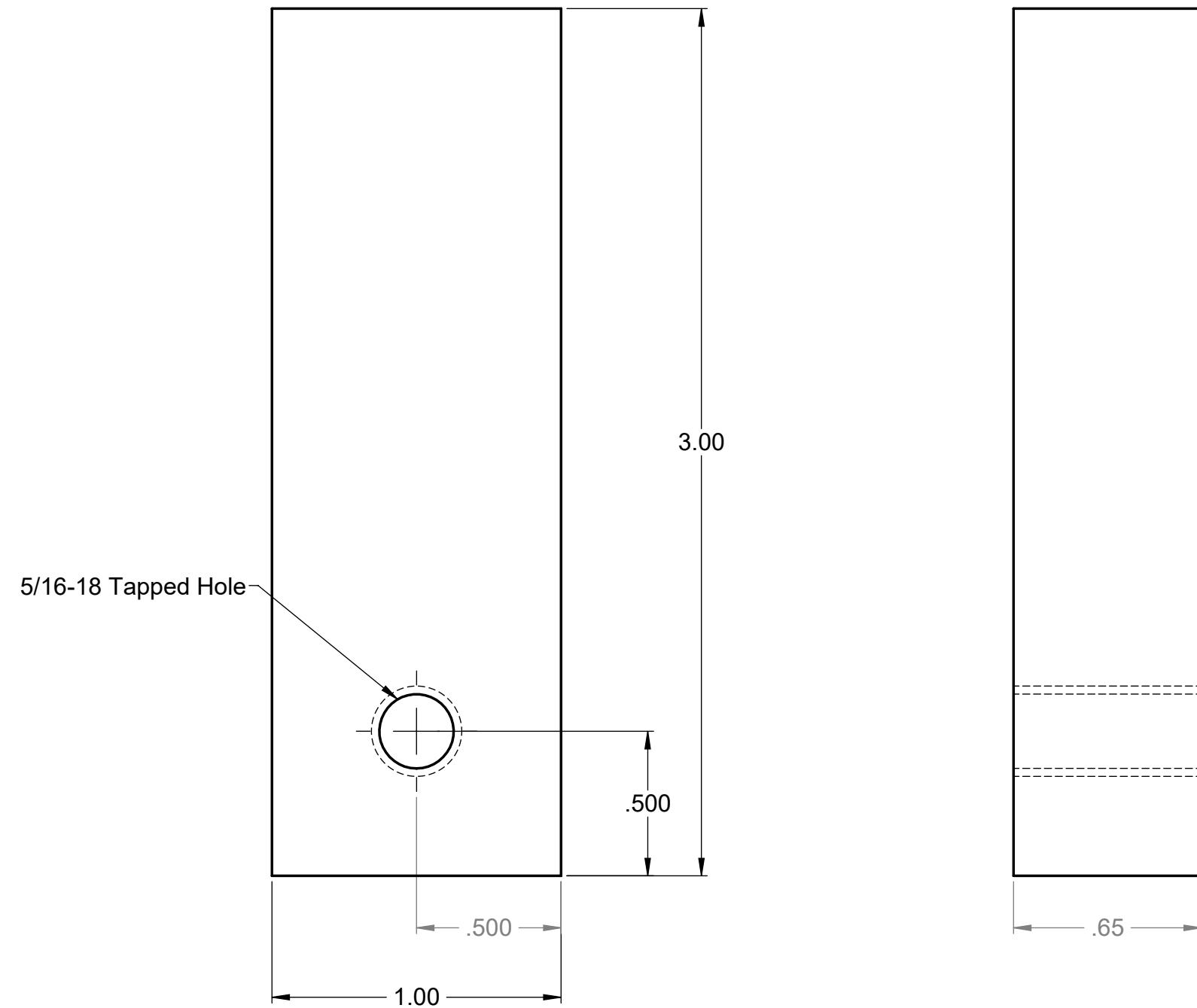
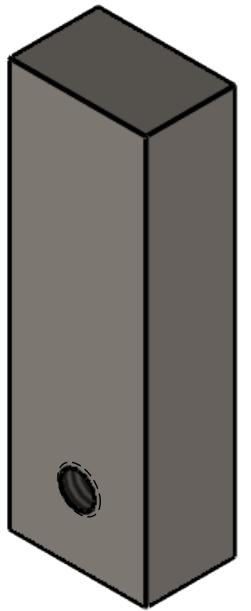
SCALE

1:2

WEIGHT lbs

1 OF 1





NOTE:  
1. MATERIAL: 1040 ANNEALED

UNLESS OTHERWISE SPECIFIED

DO NOT SCALE DRAWING

INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES

TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	$\pm 0.2$
1 PL DEC	$\pm 0.1$
2 PL DEC	$\pm 0.01$
3 PL DEC	$\pm 0.005$
ANGLES	$\pm .1^\circ$
SURFACE ROUGHNESS	$125 \mu\text{in}$

THIRD ANGLE PROJECTION



SolidWorks MAINTAINED DATA  
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ELECTRONICALLY BY THE DESIGN ACTIVITY

PROPRIETARY

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Conestoga College

CUSTOMER

WHEELCHAIR USER

PROJECT

WHEELCHAIR LIFT

DRAWN BY  
K. LEE  
DATE  
2019.06.08

CHECKED BY  
K. LEE  
DATE  
2019.06.08

APPROVED  
K. LEE  
DATE  
2019.06.08



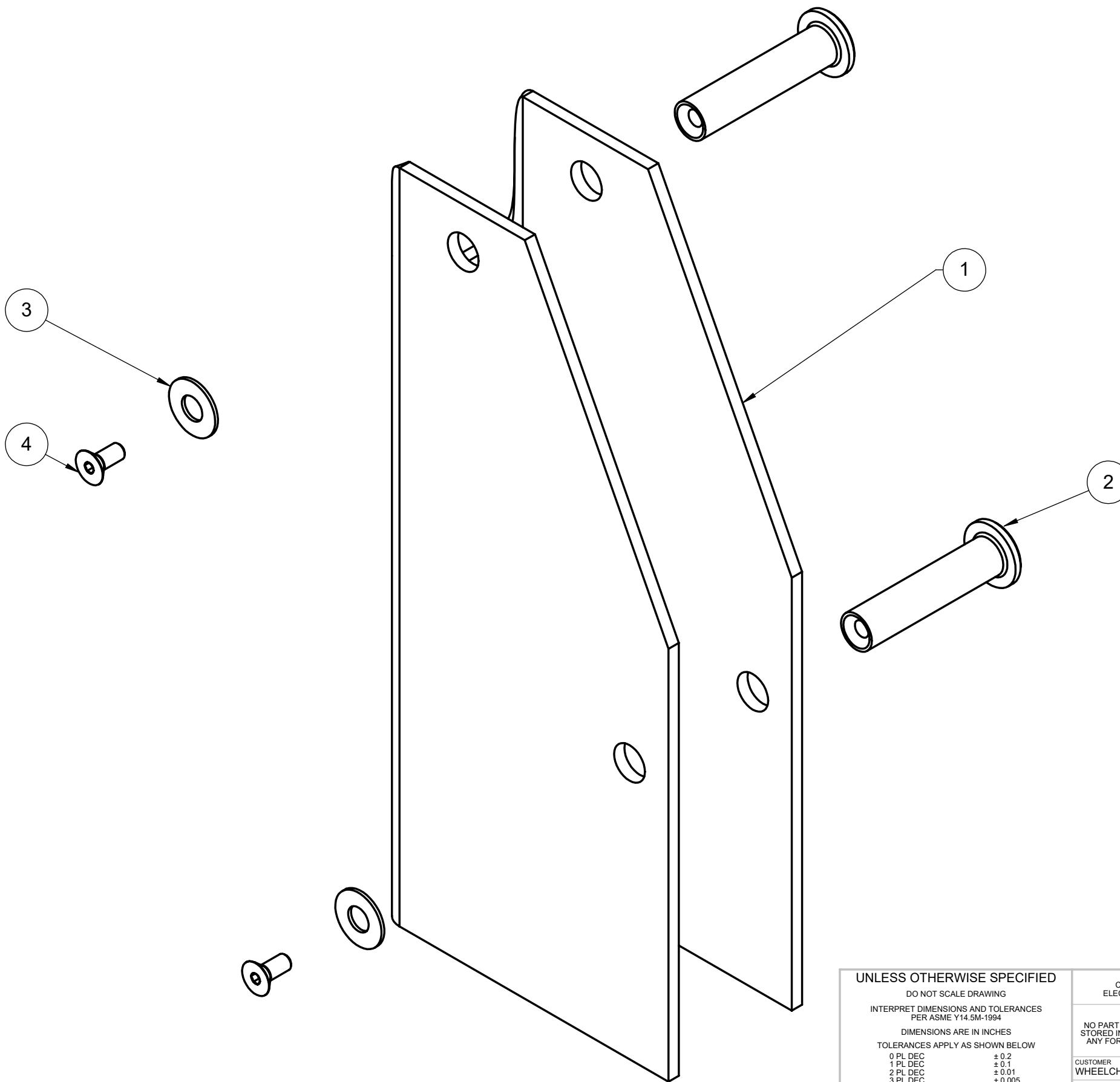
CONESTOGA  
Connect Life and Learning

299 Doon Valley Drive, Kitchener, ON, N2G 4M4

# STOP BLOCK

SIZE	DRAWING NO	REVISION
B	D505	-
SCALE 2:1	WEIGHT lbs	1 OF 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	D601	TOWER	1
2	D801	PIN TYPE 1	2
3	92141A032	18-8 STAINLESS STEEL WASHER FOR 7/16" SCREW SIZE, 0.5" ID, 1.125" OD	2
4	91253A581	BLACK-OXIDE ALLOY STEEL HEX DRIVE FLAT HEAD SCREW, 5/16"-18 THREAD SIZE, 3/4" LONG	2



UNLESS OTHERWISE SPECIFIED

DO NOT SCALE DRAWING

INTERPRET DIMENSIONS AND TOLERANCES

PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES

TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	$\pm 0.2$
1 PL DEC	$\pm 0.1$
2 PL DEC	$\pm 0.01$
3 PL DEC	$\pm 0.005$
ANGLES	$\pm .1^\circ$
SURFACE ROUGHNESS	$125 \mu\text{in}$

THIRD ANGLE PROJECTION



SolidWorks MAINTAINED DATA  
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PROPRIETARY

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Conestoga College

CUSTOMER

WHEELCHAIR USER

PROJECT

WHEELCHAIR LIFT

DRAWN BY

K. LEE

DATE

2019.06.08

CHECKED BY

K. LEE

DATE

2019.06.08

APPROVED

K. LEE

DATE

2019.06.08



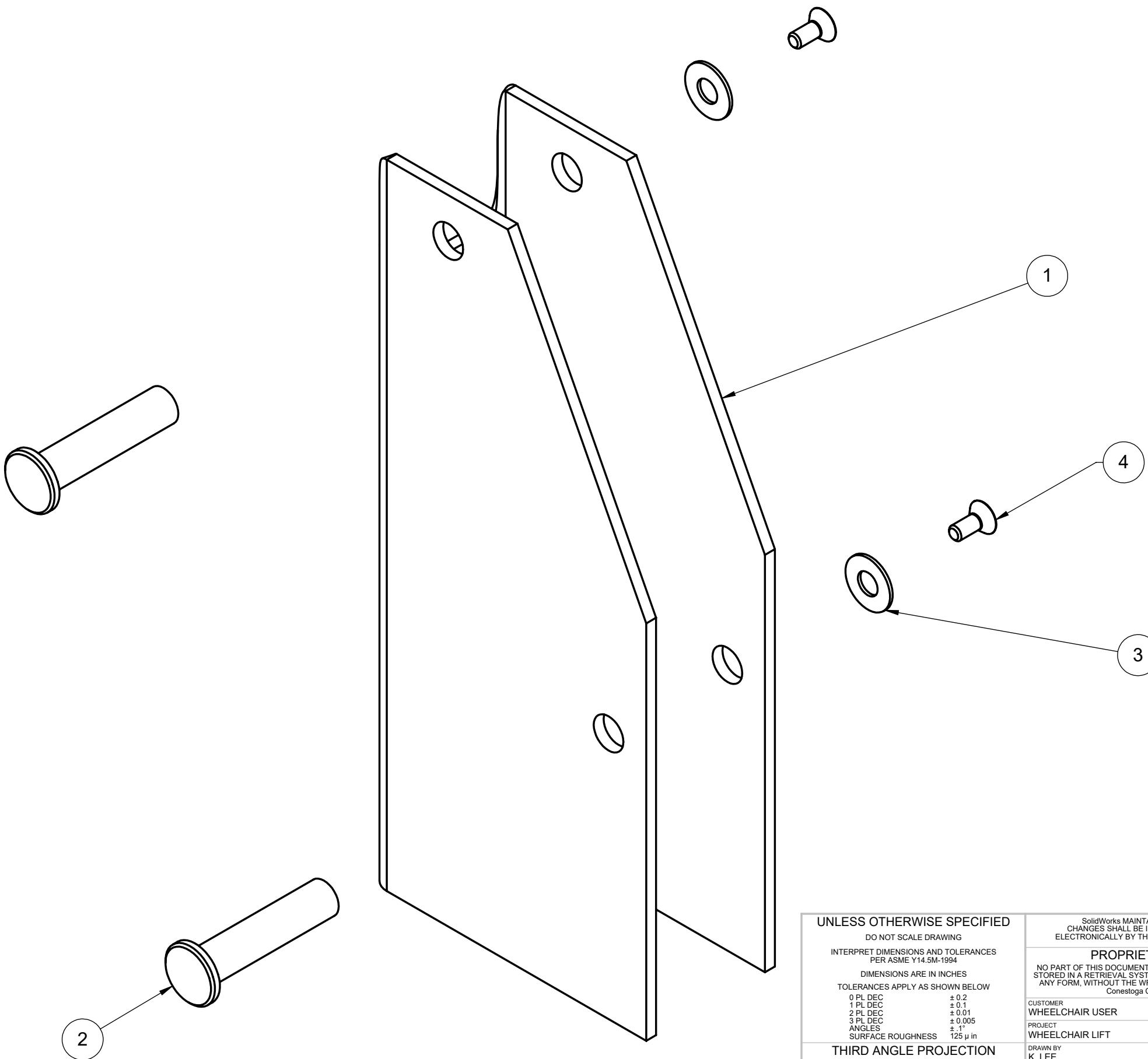
CONESTOGA  
Connect Life and Learning

299 Doon Valley Drive, Kitchener, ON, N2G 4M4

TITLE

<b>TOWER ASSEMBLY (LEFT)</b>		SIZE	DRAWING NO	REVISION
<b>B</b>	<b>SA600-01</b>			-
SCALE	1:2	WEIGHT	lbs	1 OF 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	D601	TOWER	1
2	D801	PIN TYPE 1	2
3	92141A032	18-8 STAINLESS STEEL WASHER FOR 7/16" SCREW SIZE, 0.5" ID, 1.125" OD	2
4	91253A581	BLACK-OXIDE ALLOY STEEL HEX DRIVE FLAT HEAD SCREW, 5/16"-18 THREAD SIZE, 3/4" LONG	2



UNLESS OTHERWISE SPECIFIED

DO NOT SCALE DRAWING

INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES

TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	$\pm 0.2$
1 PL DEC	$\pm 0.1$
2 PL DEC	$\pm 0.01$
3 PL DEC	$\pm 0.005$
ANGLES	$\pm .1^\circ$
SURFACE ROUGHNESS	$125 \mu\text{in}$

THIRD ANGLE PROJECTION



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ELECTRONICALLY BY THE DESIGN ACTIVITY

PROPRIETARY

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Conestoga College

CUSTOMER  
WHEELCHAIR USER

PROJECT  
WHEELCHAIR LIFT

DRAWN BY  
K. LEE

DATE  
2019.06.08

CHECKED BY  
K. LEE

DATE  
2019.06.08

APPROVED  
K. LEE

DATE  
2019.06.08



299 Doon Valley Drive, Kitchener, ON, N2G 4M4

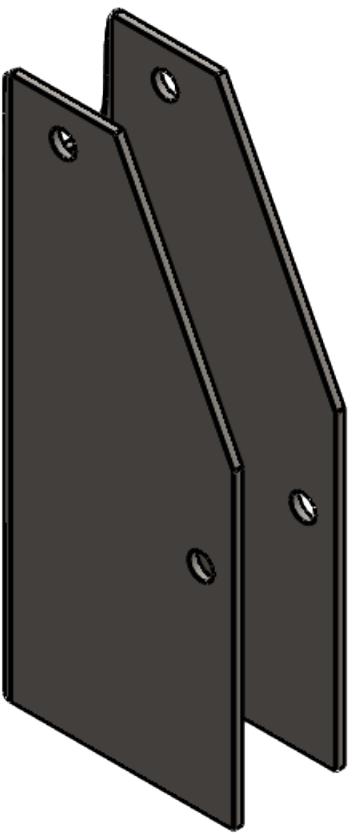
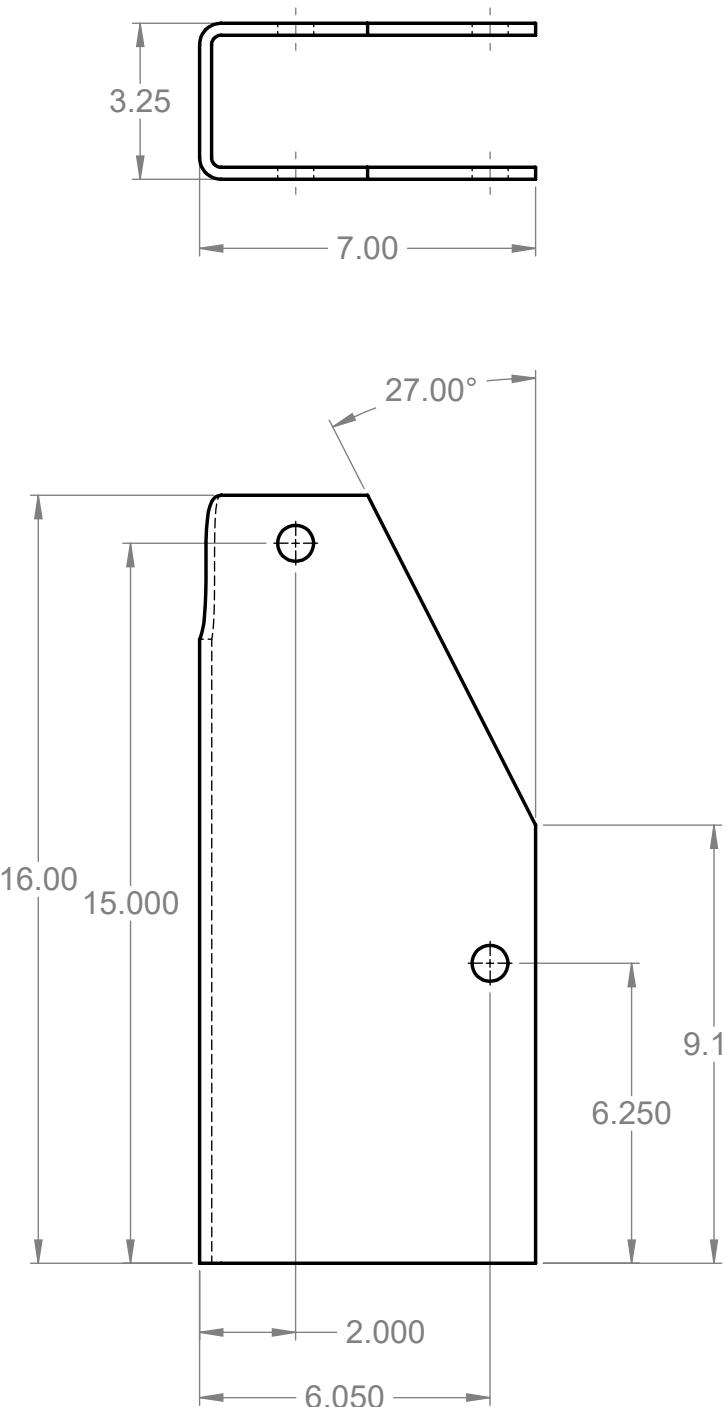
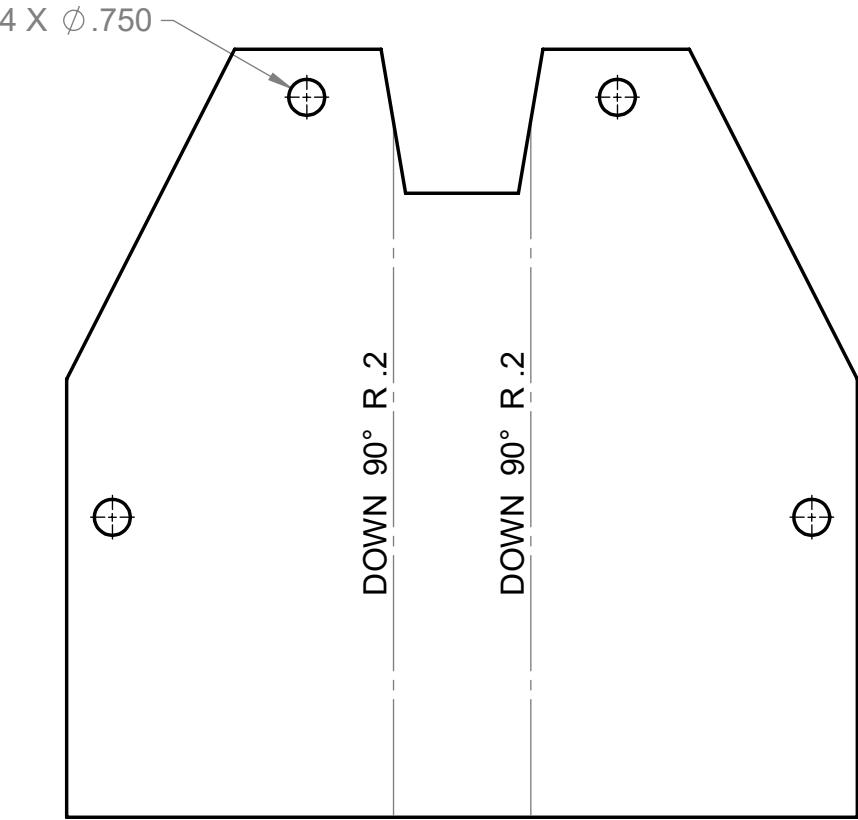
# TOWER ASSEMBLY (RIGHT)

**SA600-02**

REVISION

-

SIZE DRAWING NO  
**B** 1:2 WEIGHT lbs  
SCALE 1:2 WEIGHT lbs  
1 OF 1



**NOTE:**

1. THICKNESS IS .25 INCHES
2. MATERIAL: 1040 ANNEALED

UNLESS OTHERWISE SPECIFIED  
DO NOT SCALE DRAWING

INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES

TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	± 0.2
1 PL DEC	± 0.1
2 PL DEC	± 0.01
3 PL DEC	± 0.005
ANGLES	± .1°
SURFACE ROUGHNESS	125 µ in

THIRD ANGLE PROJECTION



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CHANGES SHALL BE INCORPORATED  
ELECTRONICALLY BY THE DESIGN ACTIVITY

PROPRIETARY

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Conestoga College

CUSTOMER

WHEELCHAIR USER

PROJECT

WHEELCHAIR LIFT

DRAWN BY

K. LEE

CHECKED BY

K. LEE

APPROVED

K. LEE

DATE

2019.06.08

DATE

2019.06.08

DATE

2019.06.08

**C** CONESTOGA  
Connect Life and Learning

299 Doon Valley Drive, Kitchener, ON, N2G 4M4

**TOWER**

**D601**

REVISION

-

SIZE

**B**

SCALE

1:4

WEIGHT

lbs

1 OF 1

**D****C****B****A**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	D701	HANDRAIL CONNECTOR	1
2	D702	HANDRAIL PIPE	1
3	D703	HANDRAIL RUBBER CAP	1

4

4

3

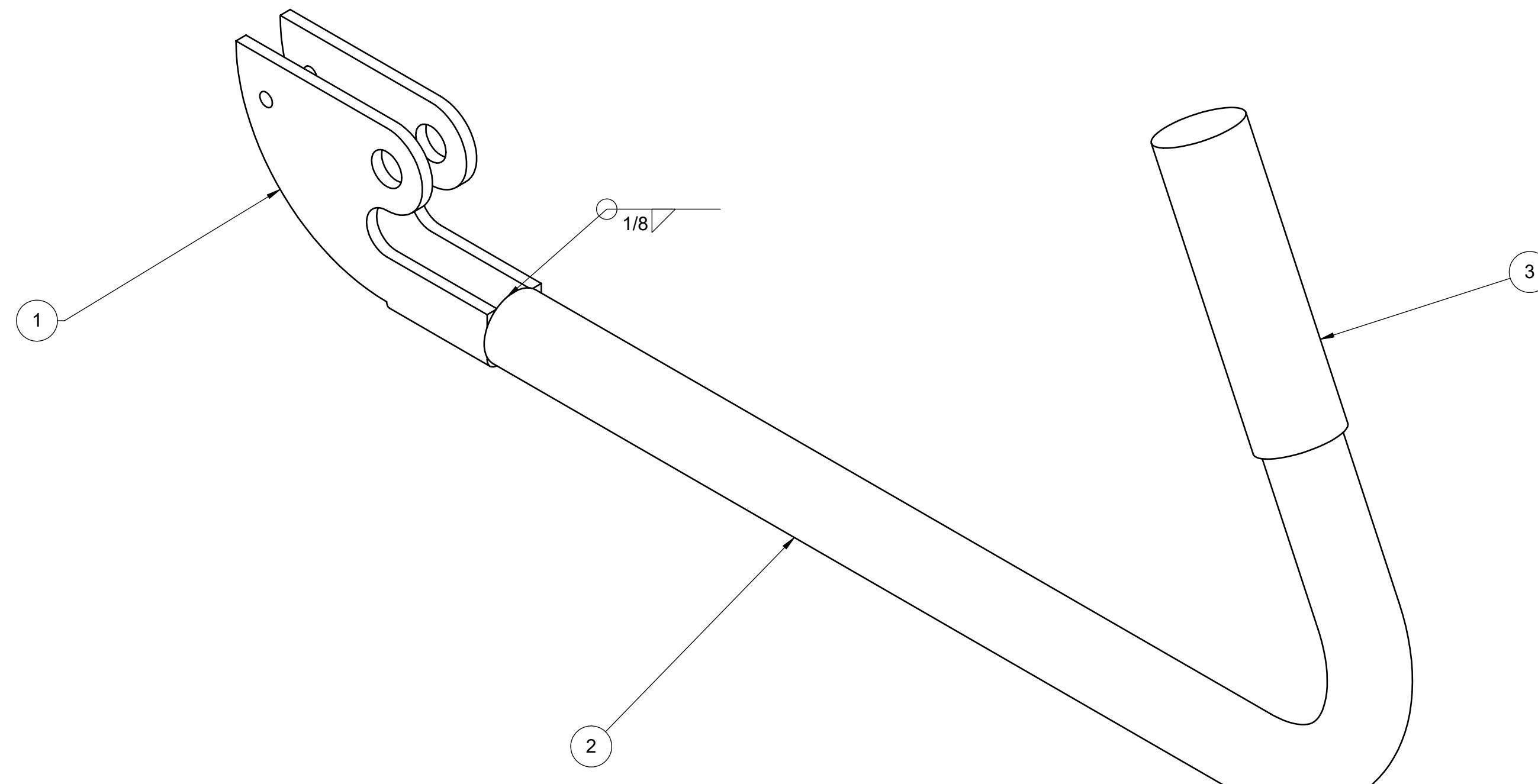
3

2

2

1

1



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INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994  
DIMENSIONS ARE IN INCHES  
TOLERANCES APPLY AS SHOWN BELOW

0 FL DEC	± 0.03
1 FL DEC	± 0.02
2 FL DEC	± 0.01
3 FL DEC	± 0.005
ANGLES	
SURFACE ROUGHNESS	125 µin

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WHEELCHAIR USER  
PROJECT  
WHEELCHAIR LIFT

THIRD ANGLE PROJECTION

DRAWN BY  
K. LEE  
DATE  
2019.06.08

CHECKED BY  
K. LEE  
DATE  
2019.06.08

APPROVED  
K. LEE  
DATE  
2019.06.08

SolidWorks MAINTAINED DATA  
CHANGES SHALL BE INCORPORATED  
ELECTRONICALLY BY THE DESIGN ACTIVITY

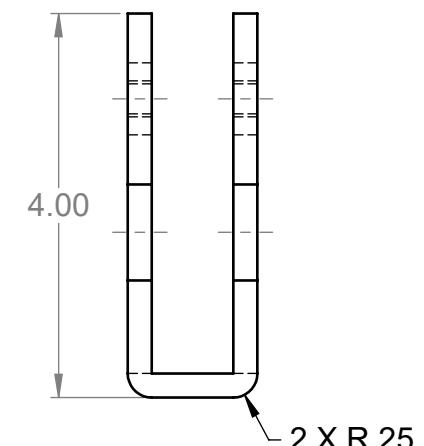
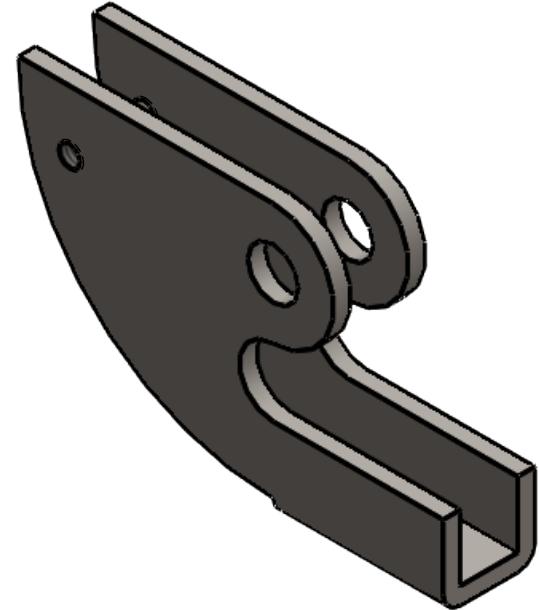
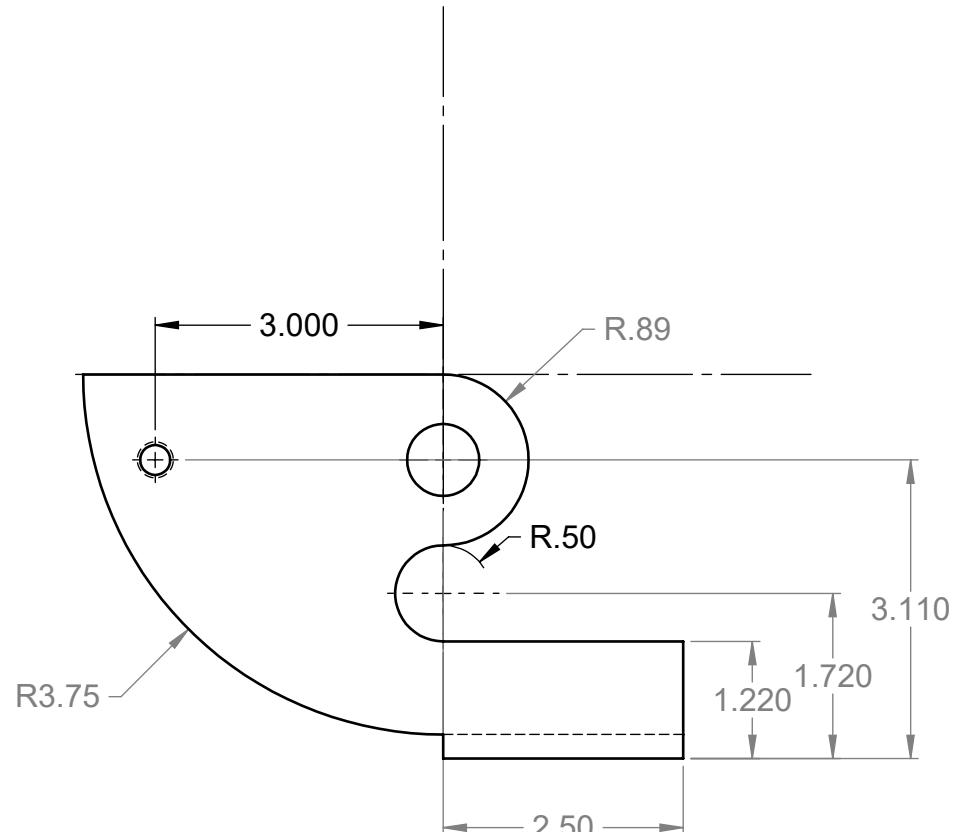
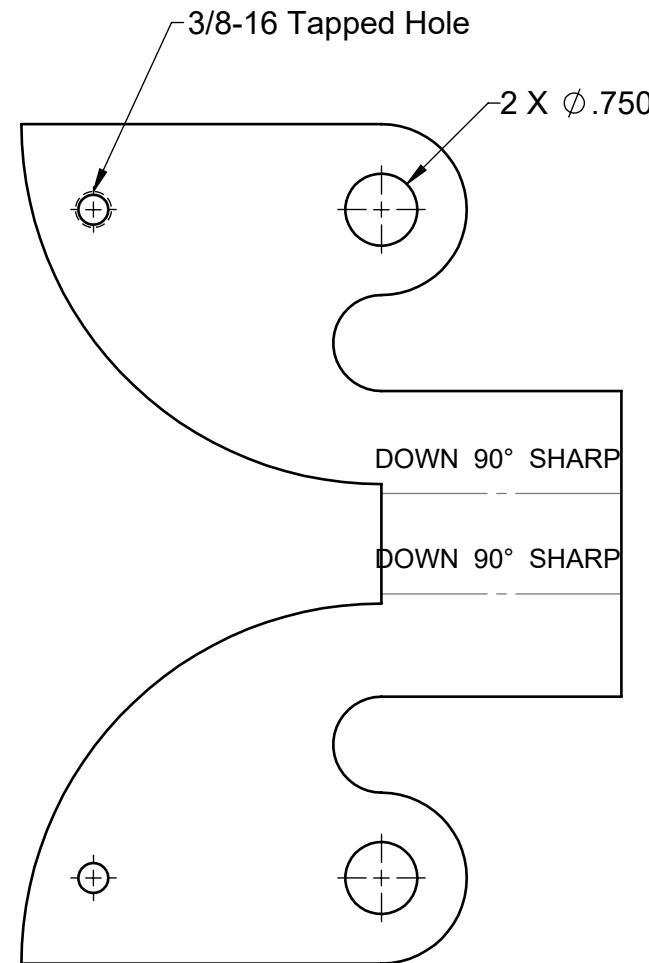
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Connect Life and Learning  
299 Doon Valley Drive, Kitchener, ON, N2G 4M4

**HANDRAIL ASSEMBLY**

**SA700**

SIZE DRAWING NO  
**C**

SCALE 1:2 WEIGHT g 1 OF 1



NOTE:  
 1. THICKNESS IS .25 INCHES  
 2. MATERIAL: 1040 ANNEALED

UNLESS OTHERWISE SPECIFIED  
 DO NOT SCALE DRAWING  
 INTERPRET DIMENSIONS AND TOLERANCES  
 PER ASME Y14.5M-1994  
 DIMENSIONS ARE IN INCHES  
 TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC       $\pm 0.2$   
 1 PL DEC       $\pm 0.1$   
 2 PL DEC       $\pm 0.01$   
 3 PL DEC       $\pm 0.005$   
 ANGLES       $\pm .1^\circ$   
 SURFACE ROUGHNESS       $125 \mu\text{in}$

THIRD ANGLE PROJECTION



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CUSTOMER  
 WHEELCHAIR USER

PROJECT  
 WHEELCHAIR LIFT

DRAWN BY  
 K. LEE      DATE  
 2019.06.08

CHECKED BY  
 K. LEE      DATE  
 2019.06.08

APPROVED  
 K. LEE      DATE  
 2019.06.08

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 Connect Life and Learning  
 299 Doon Valley Drive, Kitchener, ON, N2G 4M4

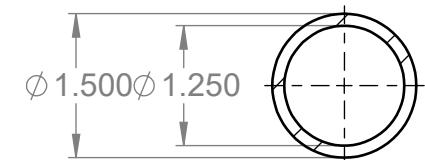
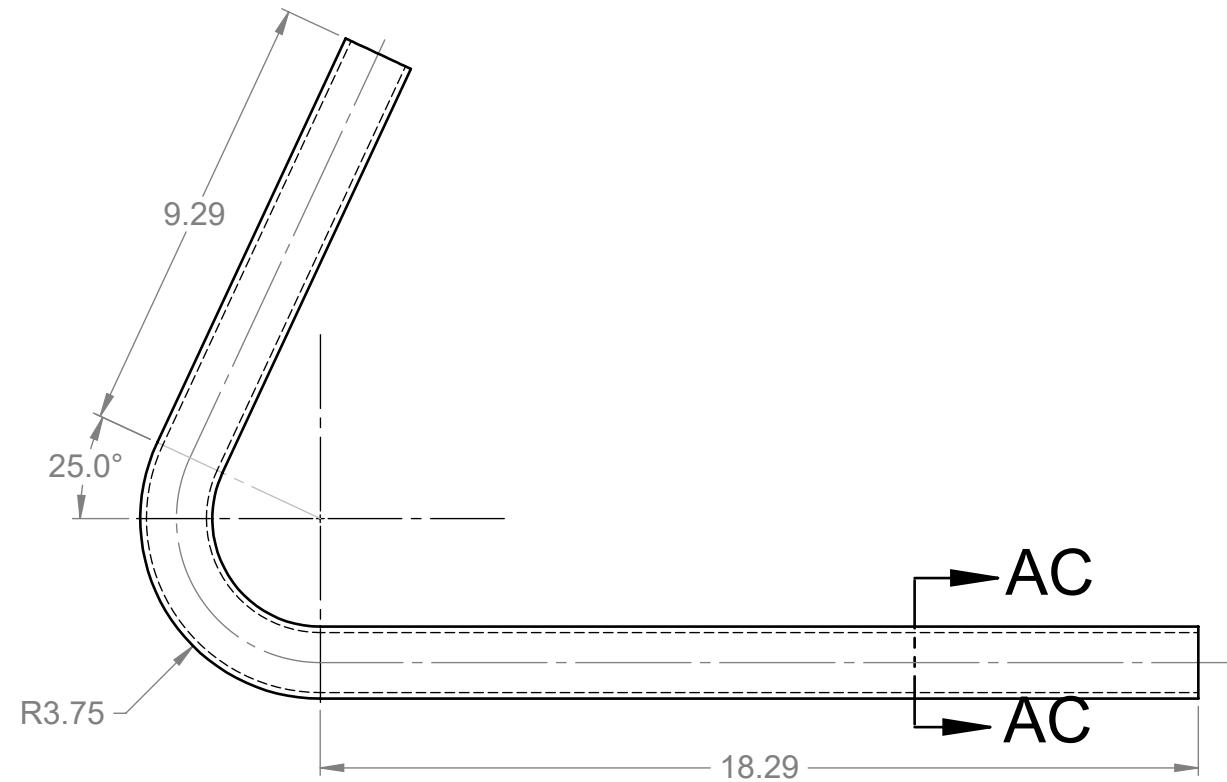
TITLE

## HANDRAIL CONNECTOR

**D701**

REVISION **-**

<b>B</b>	DRAWING NO	
SCALE	1:2	WEIGHT lbs
		1 OF 1



SECTION AC-AC

NOTE:

1. THICKNESS IS .125 INCHES
2. MATERIAL: 1040 ANNEALED

UNLESS OTHERWISE SPECIFIED  
DO NOT SCALE DRAWING  
INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES  
TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	$\pm 0.2$
1 PL DEC	$\pm 0.1$
2 PL DEC	$\pm 0.01$
3 PL DEC	$\pm 0.005$
ANGLES	$\pm .1^\circ$
SURFACE ROUGHNESS	125 $\mu$ in

THIRD ANGLE PROJECTION



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CUSTOMER

WHEELCHAIR USER

PROJECT

WHEELCHAIR LIFT

DRAWN BY K. LEE DATE 2019.06.08

CHECKED BY K. LEE DATE 2019.06.08

APPROVED K. LEE DATE 2019.06.08



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# HANDRAIL PIPE

B

DRAWING NO

D702

REVISION

-

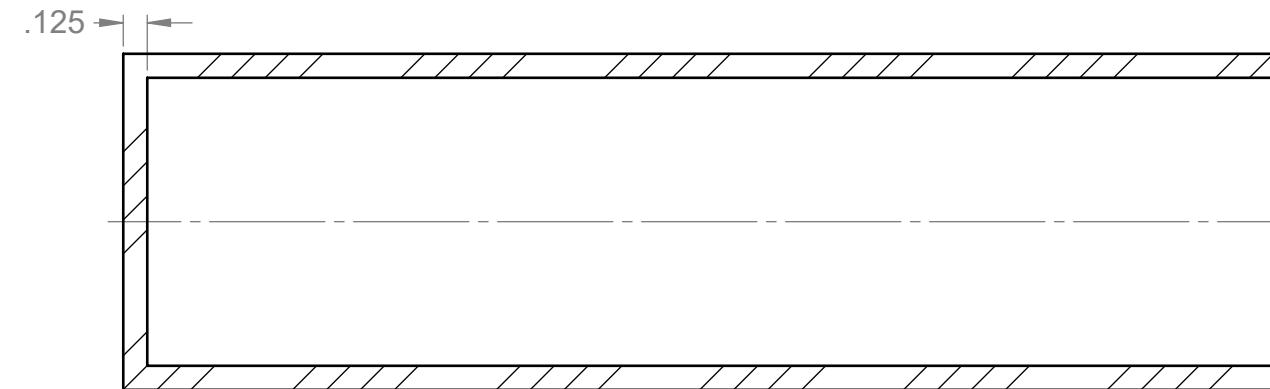
SCALE

1:4

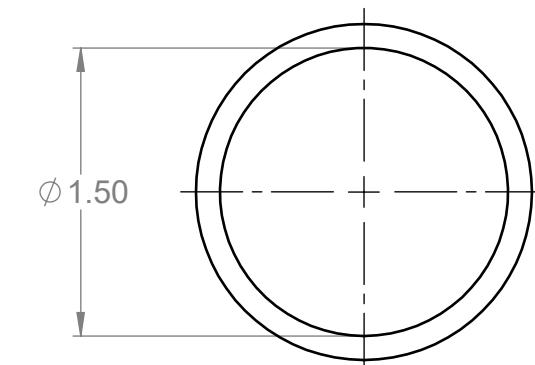
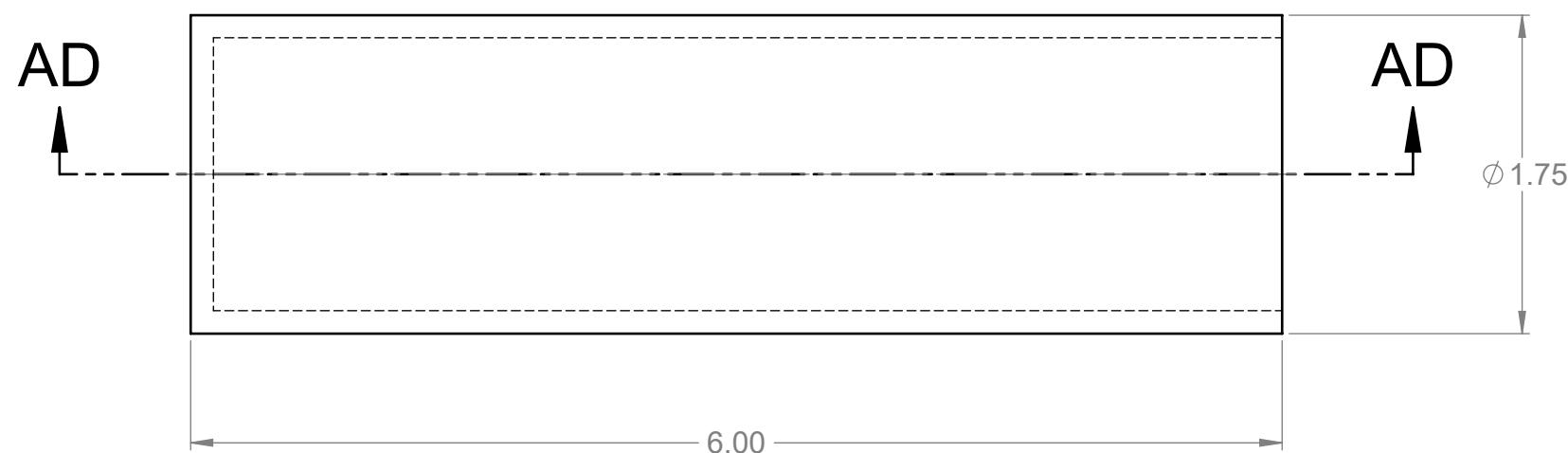
WEIGHT

lbs

1 OF 1



SECTION AD-AD  
SCALE 1 : 1



- NOTE:  
 1. THICKNESS IS .125 INCHES  
 2. MATERIAL: RUBBER

UNLESS OTHERWISE SPECIFIED  
DO NOT SCALE DRAWING  
INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994  
DIMENSIONS ARE IN INCHES  
TOLERANCES APPLY AS SHOWN BELOW  
0 PL DEC  $\pm 0.2$   
1 PL DEC  $\pm 0.1$   
2 PL DEC  $\pm 0.01$   
3 PL DEC  $\pm 0.005$   
ANGLES  $\pm 1^\circ$   
SURFACE ROUGHNESS  $125 \mu\text{in}$

THIRD ANGLE PROJECTION

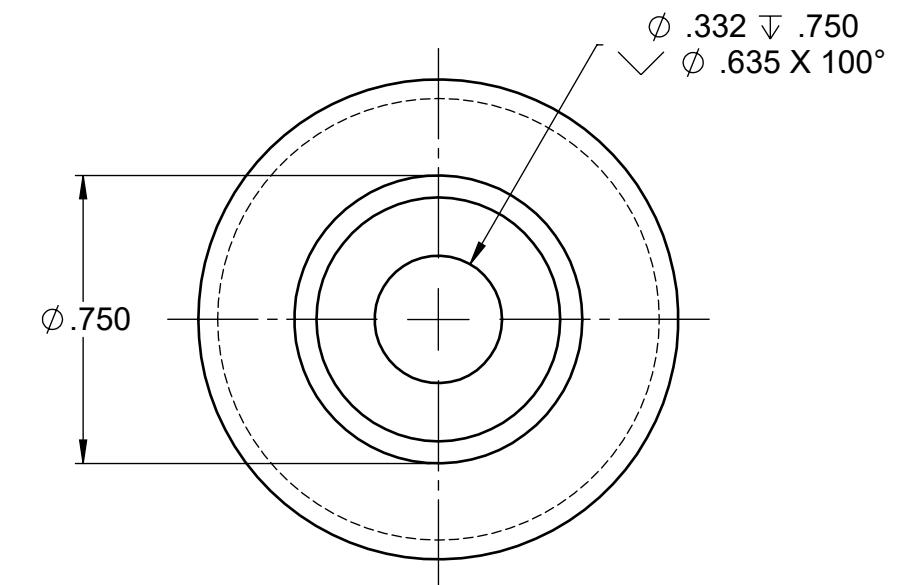
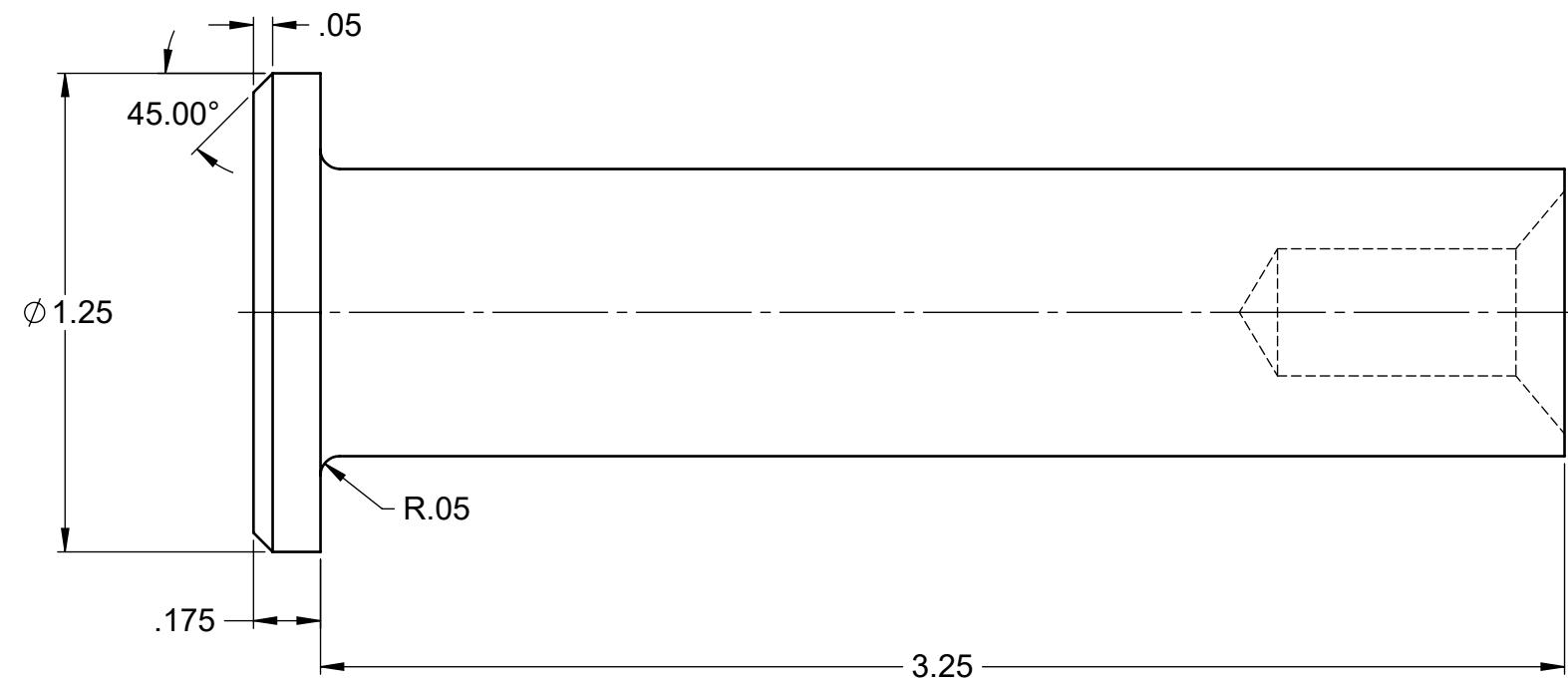
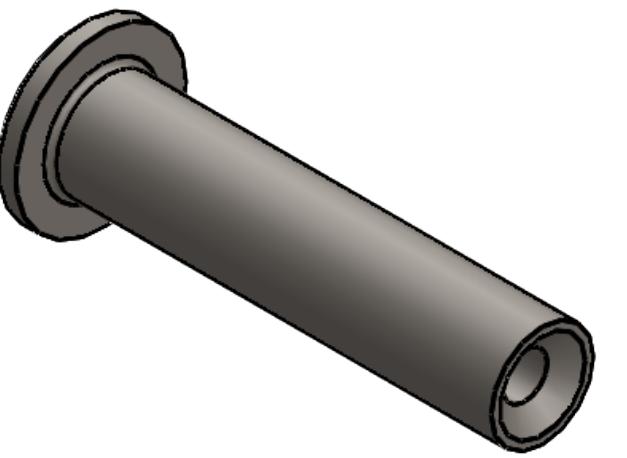
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CUSTOMER WHEELCHAIR USER	
PROJECT WHEELCHAIR LIFT	
DRAWN BY K. LEE	DATE 2019.06.08
CHECKED BY K. LEE	DATE 2019.06.08
APPROVED K. LEE	DATE 2019.06.08

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**HANDRAIL RUBBER CAP**  
**D703**  
 SIZE **B** DRAWING NO  
 SCALE 1:1 WEIGHT lbs  
 1 OF 1



NOTE:  
1. MATERIAL: 1040 ANNEALED

UNLESS OTHERWISE SPECIFIED  
DO NOT SCALE DRAWING

INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES

TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	$\pm 0.2$
1 PL DEC	$\pm 0.1$
2 PL DEC	$\pm 0.01$
3 PL DEC	$\pm 0.005$
ANGLES	$\pm .1^\circ$
SURFACE ROUGHNESS	125 $\mu$ in

THIRD ANGLE PROJECTION



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CUSTOMER

WHEELCHAIR USER

PROJECT

WHEELCHAIR LIFT

DRAWN BY

K. LEE

CHECKED BY

K. LEE

APPROVED

K. LEE

DATE

2019.06.08

DATE

2019.06.08

DATE

2019.06.08

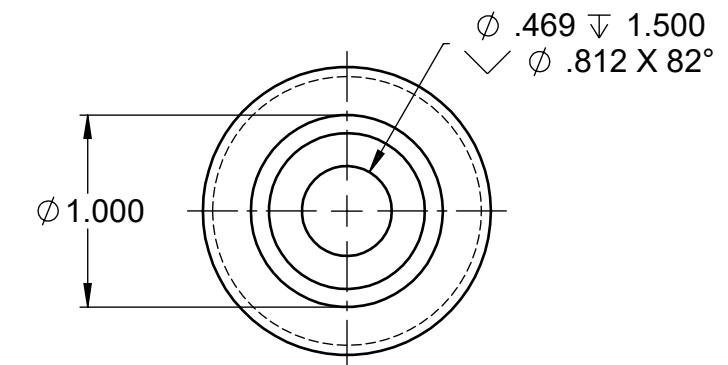
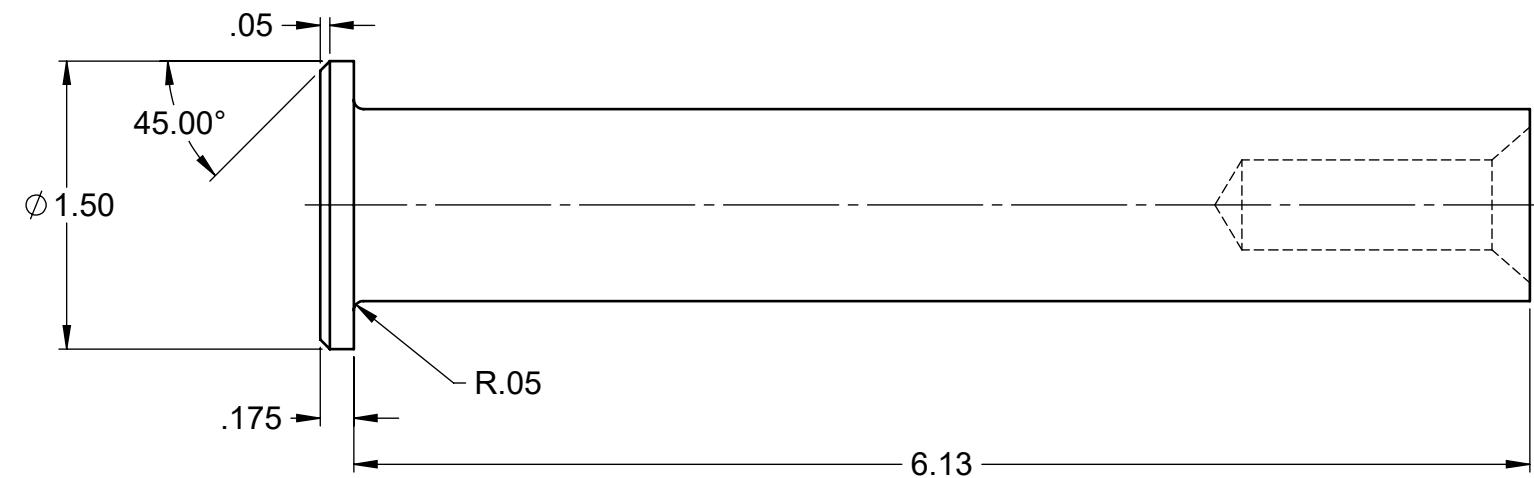
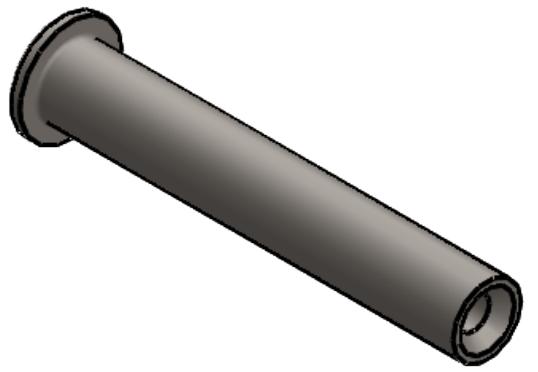


CONESTOGA  
Connect Life and Learning

299 Doon Valley Drive, Kitchener, ON, N2G 4M4

# PIN TYPE 1

SIZE		DRAWING NO	REVISION
B		D801	-
SCALE	2:1	WEIGHT	lbs
		1 OF 1	



NOTE:  
1. MATERIAL: 1040 ANNEALED

UNLESS OTHERWISE SPECIFIED  
DO NOT SCALE DRAWING  
INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES  
TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC       $\pm 0.2$   
1 PL DEC       $\pm 0.1$   
2 PL DEC       $\pm 0.01$   
3 PL DEC       $\pm 0.005$   
ANGLES       $\pm .1^\circ$   
SURFACE ROUGHNESS       $125 \mu\text{in}$

THIRD ANGLE PROJECTION



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ELECTRONICALLY BY THE DESIGN ACTIVITY

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CUSTOMER  
WHEELCHAIR USER  
PROJECT  
WHEELCHAIR LIFT

DRAWN BY K. LEE	DATE 2019.06.08
CHECKED BY K. LEE	DATE 2019.06.08
APPROVED K. LEE	DATE 2019.06.08

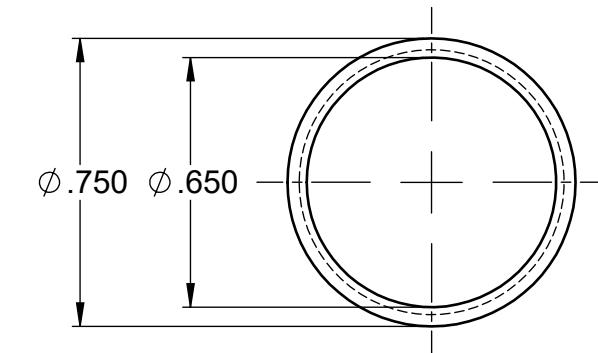
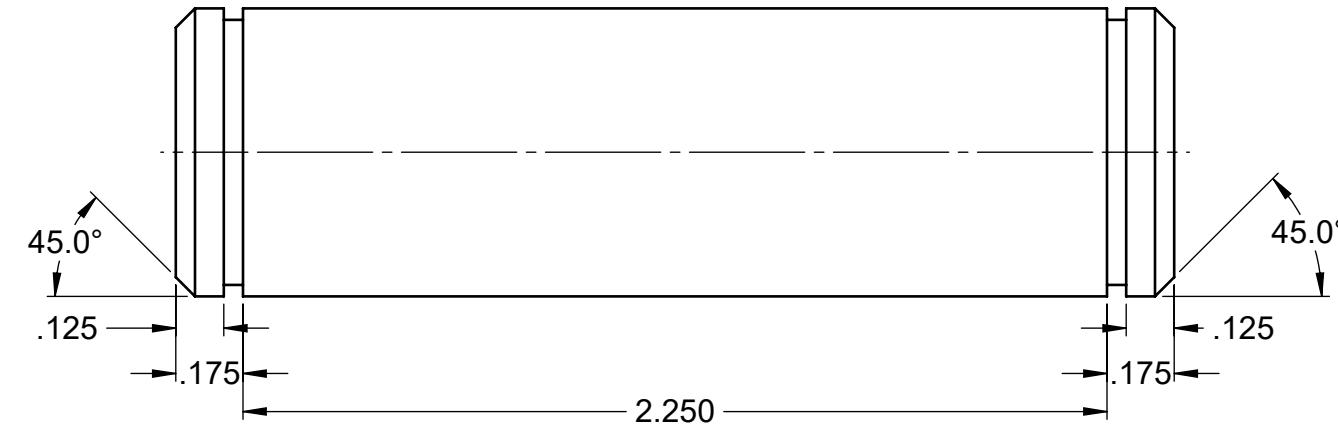
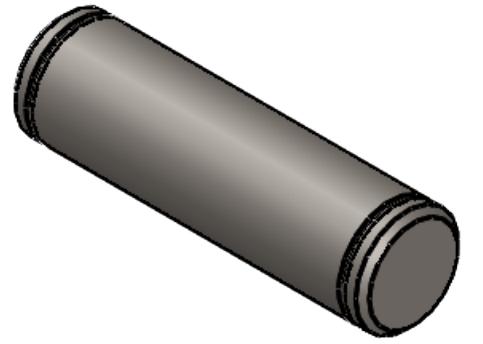
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**PIN TYPE 2**

<b>B</b>	DRAWING NO	<b>D802</b>		REVISION -
		SCALE 1:1	WEIGHT lbs	

1 OF 1



UNLESS OTHERWISE SPECIFIED  
DO NOT SCALE DRAWING

INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994

DIMENSIONS ARE IN INCHES

TOLERANCES APPLY AS SHOWN BELOW

0 PL DEC	$\pm 0.2$
1 PL DEC	$\pm 0.1$
2 PL DEC	$\pm 0.01$
3 PL DEC	$\pm 0.005$
ANGLES	$\pm .1^\circ$
SURFACE ROUGHNESS	125 $\mu$ in

THIRD ANGLE PROJECTION



SolidWorks MAINTAINED DATA  
CHANGES SHALL BE INCORPORATED  
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CUSTOMER

WHEELCHAIR USER

PROJECT

WHEELCHAIR LIFT

DRAWN BY

K. LEE

DATE

2019.06.08

CHECKED BY

K. LEE

DATE

2019.06.08

APPROVED

K. LEE

DATE

2019.06.08

**C** CONESTOGA  
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299 Doon Valley Drive, Kitchener, ON, N2G 4M4

# PIN TYPE 3

**D803**

REVISION

-

NOTE:

- THE PART IS SYMMETRICAL
- MATERIAL: 1040 ANNEALED

TITLE	SIZE	DRAWING NO	SCALE	WEIGHT	REVISION
CONESTOGA	B	D803	2:1	lbs	-
299 Doon Valley Drive, Kitchener, ON, N2G 4M4					1 OF 1