

# TRAIN PROJECT

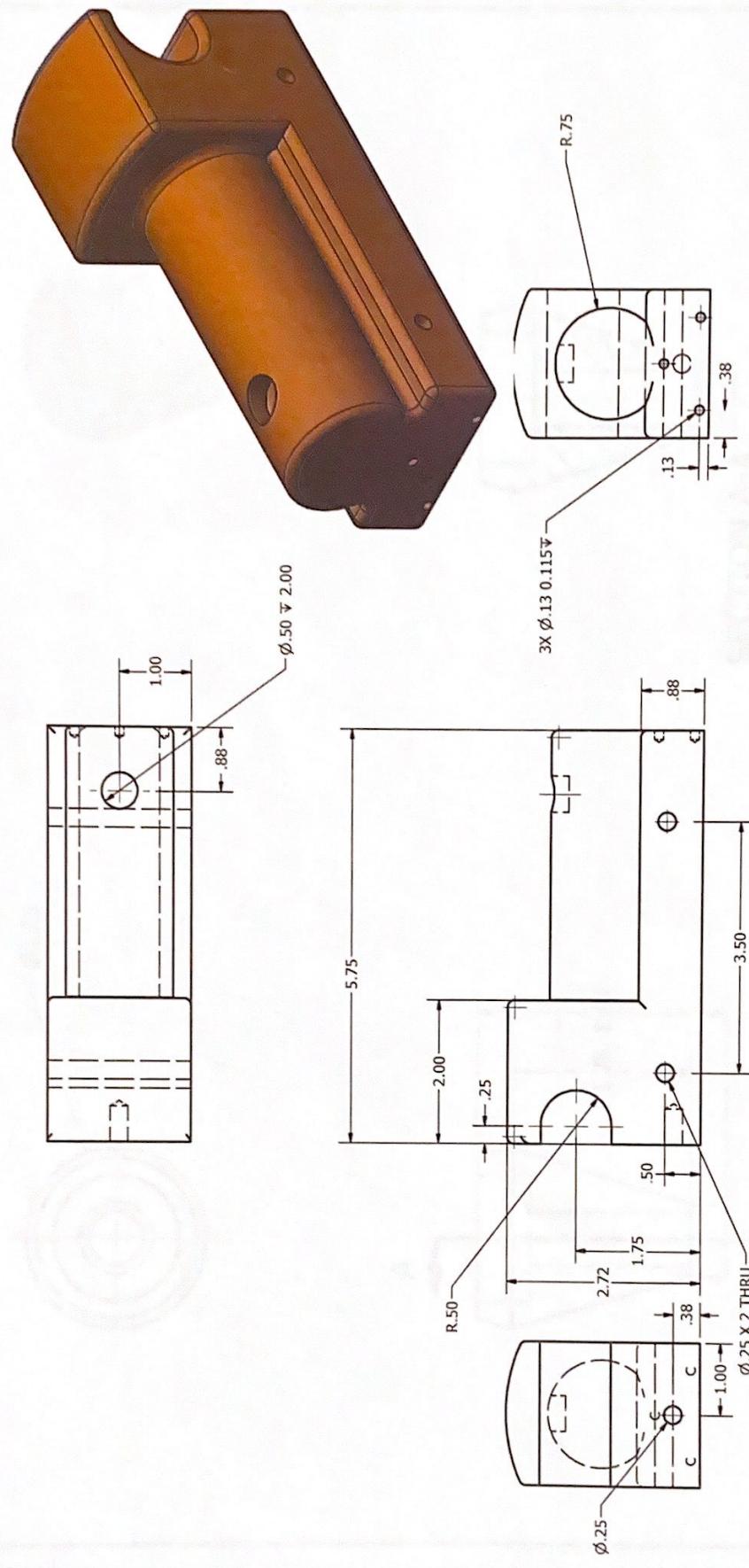


Keyur Rana

February 14, 2017

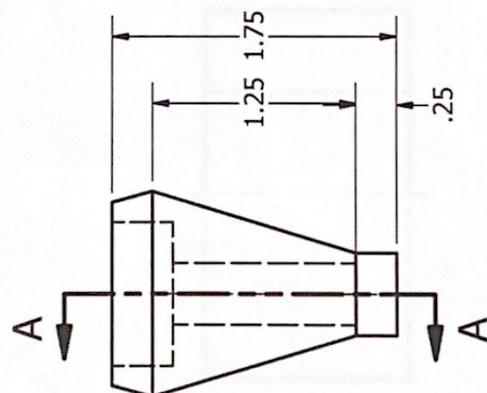
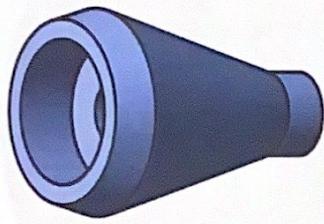
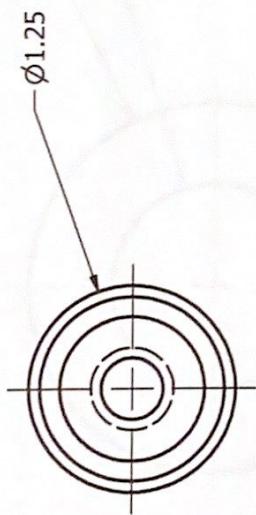
Introduction to Engineering Design

Passaic County Technical Institute



Round all edges R.01 except for drilled holes

PROJECT LEAD THE WAY		PASSAIC COUNTY TECHNICAL INSTITUTE	
PLTW		45 Remhardt Road, Wayne, NJ 07470 (973) 790-6000	
DRAWING TITLE:		CNC NUMBER REC:	
PROJECT	TRAIN BODY	APPROVED BY:	IED-KCR-DW-01
TRAIN	KEYUR RANA	DATE:	02-07-17
	CHECKED BY:	NAME:	M. MILLER
		DATE:	02-07-17
		NAME:	EDWARD
		DATE:	02-07-17
		NAME:	EDWARD
		DATE:	02-07-17
		NAME:	EDWARD



SECTION A-A  
SCALE 1 : 1



DRAWING TITLE:  
STACK

SIZE: A

DRAWN BY: KEYUR RANA

APPROVED BY: M. MILLER

DATE: 2-7-17

SCALE:

REVISION:

SHEET NO.:

PROJECT LEAD THE WAY

PLTW

CHECKED BY:

DATE:

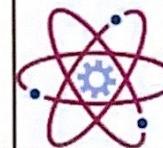
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REVISION:

SHEET NO.:

PROJECT

TRAIN



PROJECT LEAD THE WAY

PLTW

CHECKED BY:

DATE:

SCALE:

REVISION:

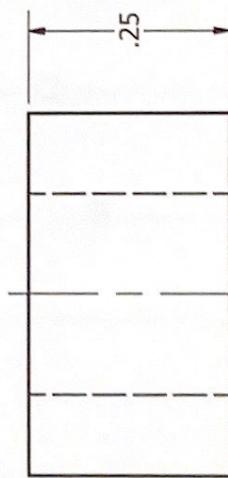
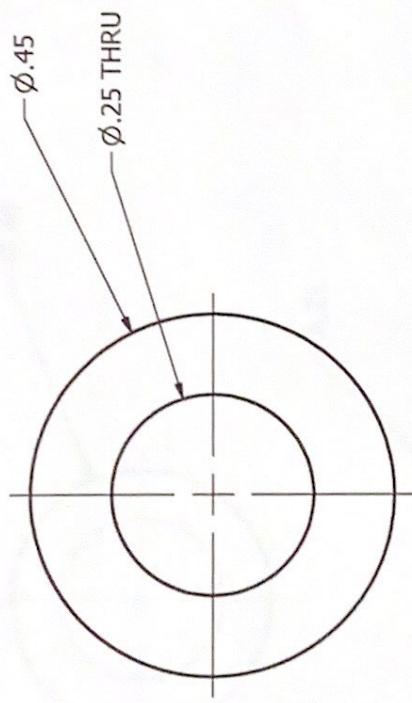
SHEET NO.:

PROJECT

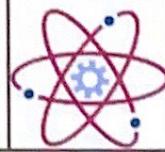
TRAIN

REVISION:

SHEET NO.:</



 <b>PROJECT LEAD THE WAY</b> <b>PLTW</b>	DRAWING TITLE: HITCH MAGNET		
	SIZE <b>A</b>	DRAWN BY KEYUR RANA	DATE 2-7-17
PROJECT: <b>TRAIN</b>	CHECKED BY:	APPROVED BY: M. MILLER	SCALE: SHEET NO: 1/1



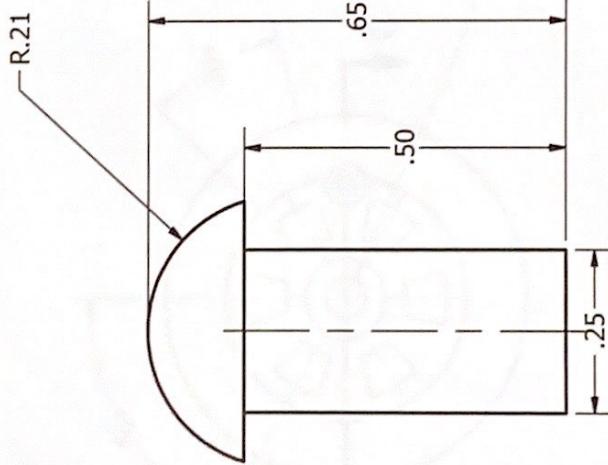
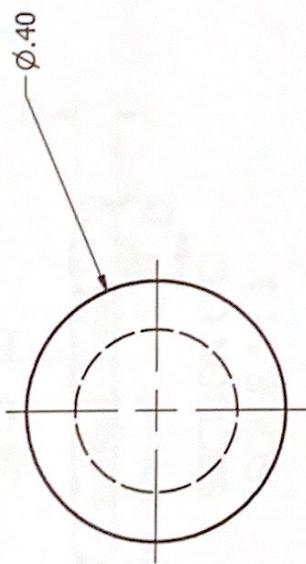
PROJECT  
**PLTW**



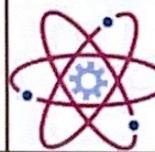
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45 Reinhardt Road, Wayne, NJ 07470 (973) 790-6000

DRAWING NO.  
**IED-KJR-DW-03**

REVISION:  
SHEET NO:  
1/1



PROJECT LEAD THE WAY  
**PLTW**



PROJECT TRAIN



PASSAIC COUNTY TECHNICAL INSTITUTE

DRAWING TITLE:

HITCH PEG

SIZE

DRAWN BY:

KEYUR RANA

APPROVED BY:

M. MILLER

DATE:

2-7-17

SCALE:

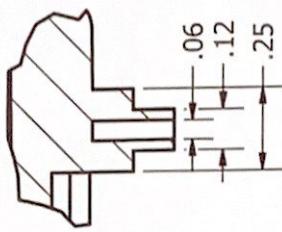
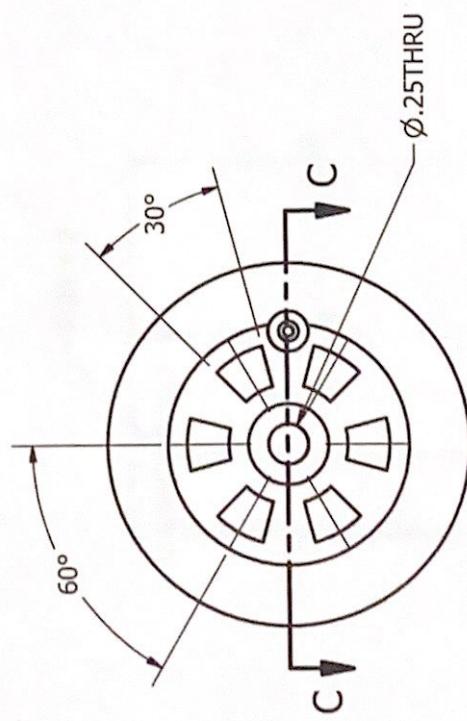
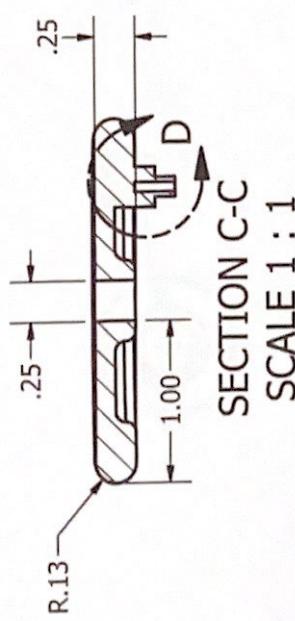
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SHEET NO:

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DRAWING NO:  
IED-KJR-DW-04

REVISION:  
None

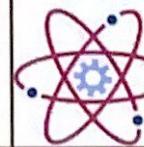


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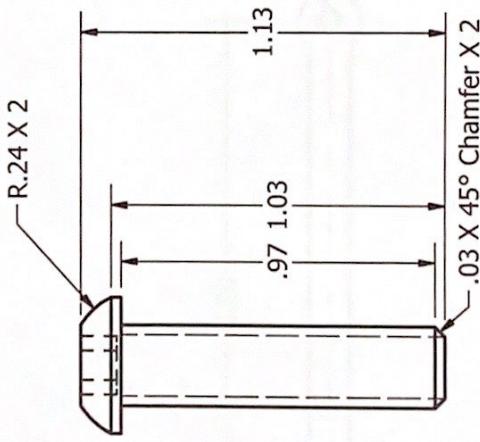
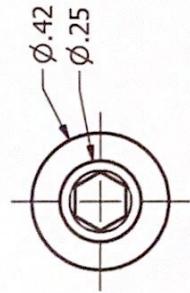


PROJECT LEAD THE WAY		DRAWING TITLE:	DRAWING NO:
SIZE	DRAWN BY:	APPROVED BY:	REVISION:
A	K EYUR RANA	2 - 7 - 17 M. MILLER	
	CHECKED BY:	DATE:	SCALE:

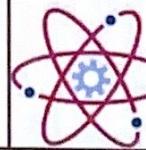
**PLTW**



PROJECT  
TRAIN

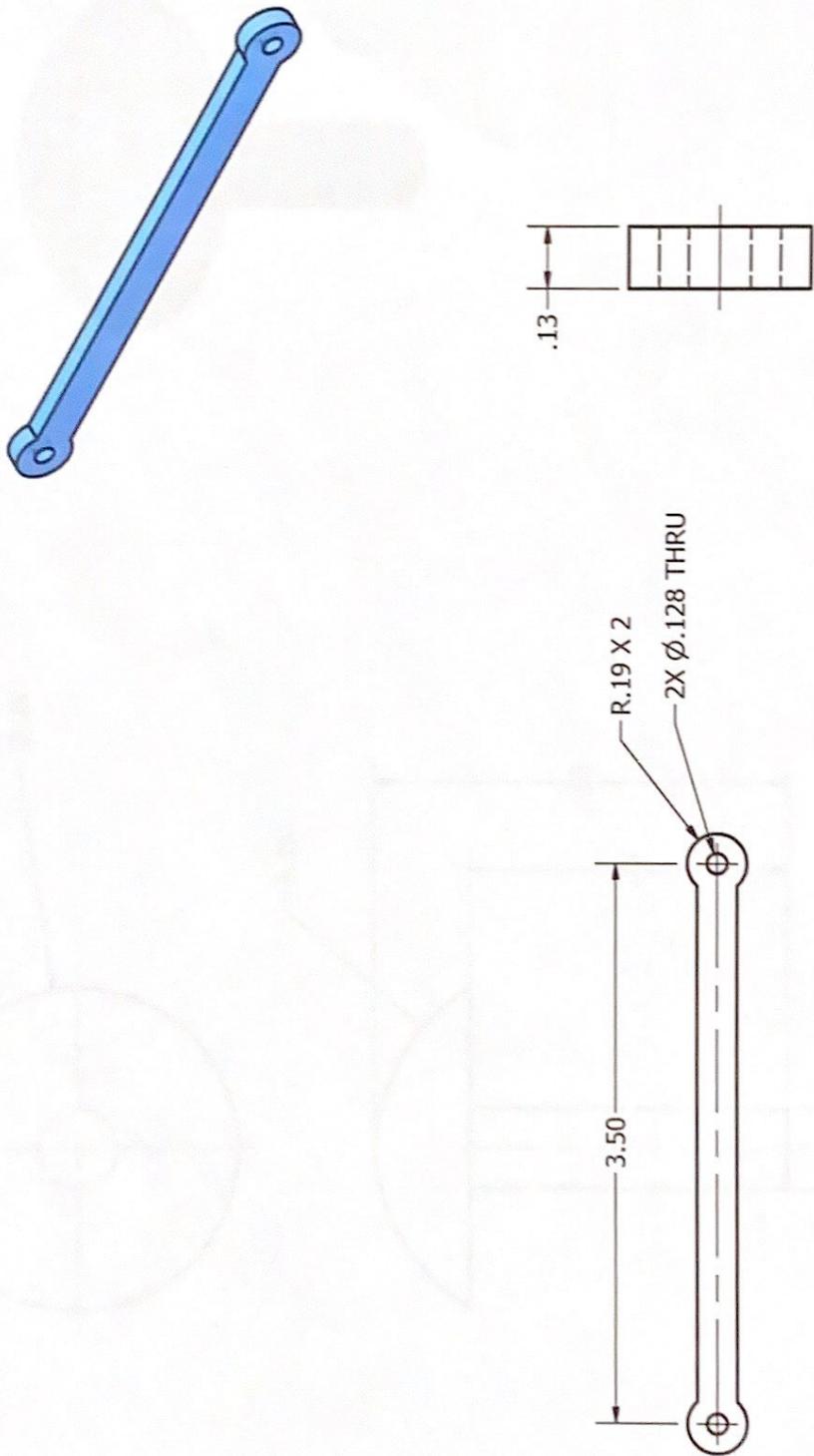


PROJECT LEAD THE WAY  
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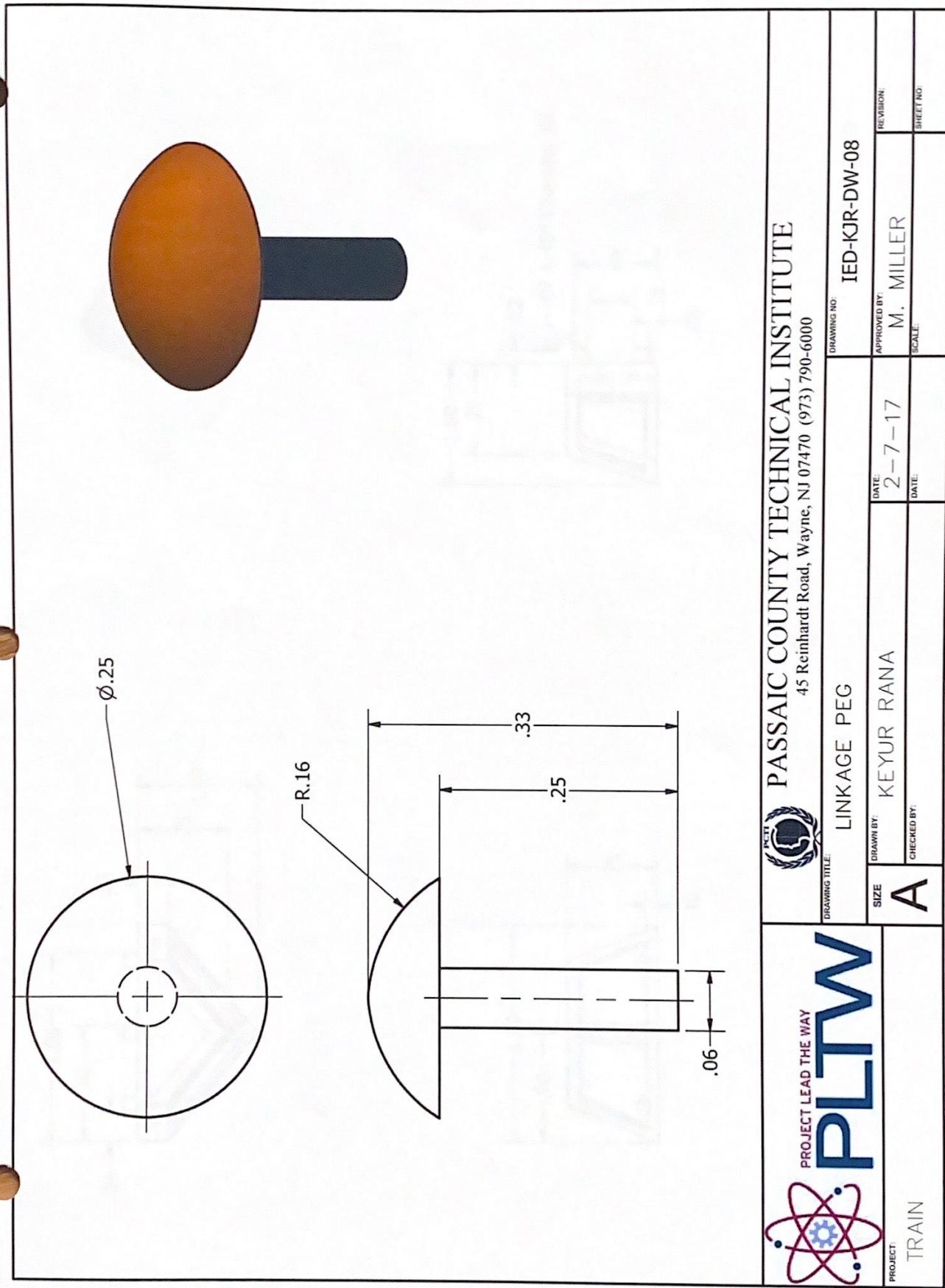


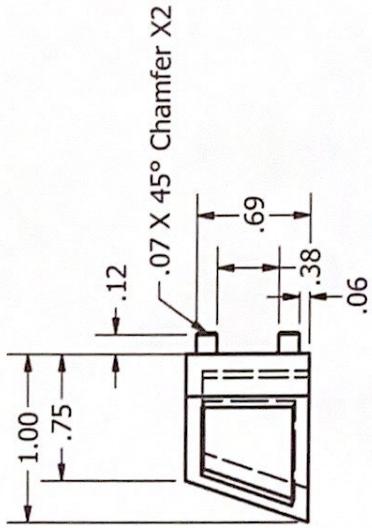
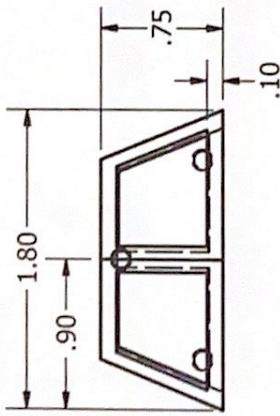
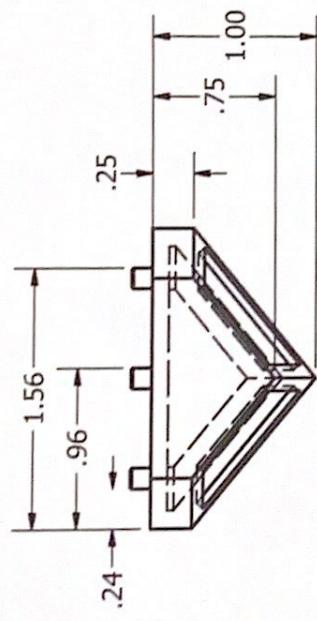
PROJECT:  
TRAIN

DRAWING TITLE:	PASSAIC COUNTY TECHNICAL INSTITUTE	
	45 Reinhardt Road, Wayne, NJ 07470 (973) 790-6000	
DRAWING NO.:	IED-KJR-DW-06	REVISION:
APPROVED BY:	M. MILLER	SCALE:
DATE:	2-7-17	SHEET NO.:



 <b>PROJECT LEAD THE WAY</b> <b>PLTW</b>		<b>PASSAIC COUNTY TECHNICAL INSTITUTE</b> 45 Reinhardt Road, Wayne, NJ 07470 (973) 790-6000	
DRAWING TITLE:		DRAWING NO. IED-KJR-DW-07	
SIZE	DRAWN BY:	APPROVED BY:	REVISED BY:
	A	Keyur Rana	M. MILLER
CHECKED BY:		DATE: 2-7-17	SCALE:
DESIGNING WITH INVENTOR		DATE:	SHEET NO.





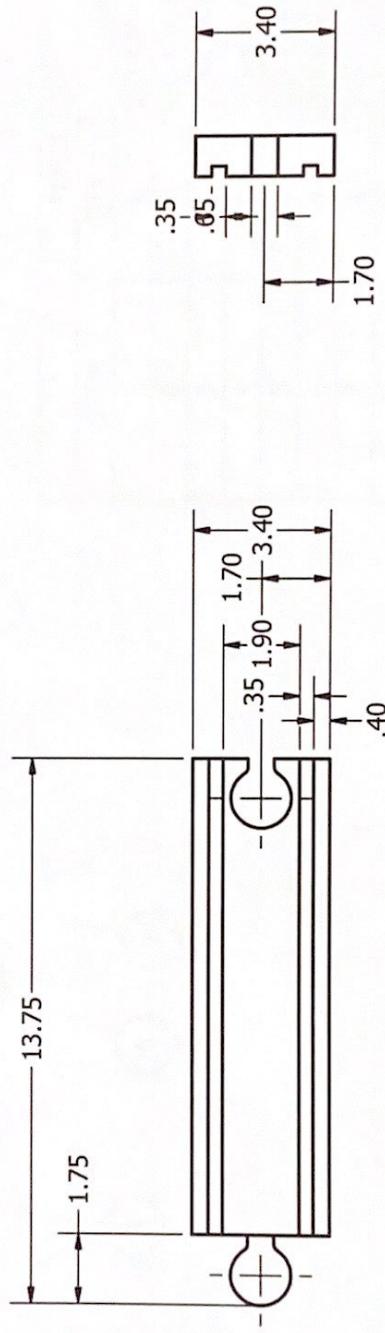
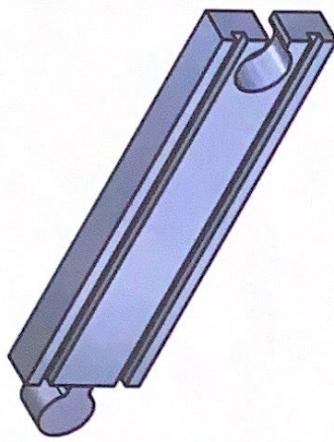
**PROJECT LEAD THE WAY**  
**PLTW**

PROJECT  
TRAIN

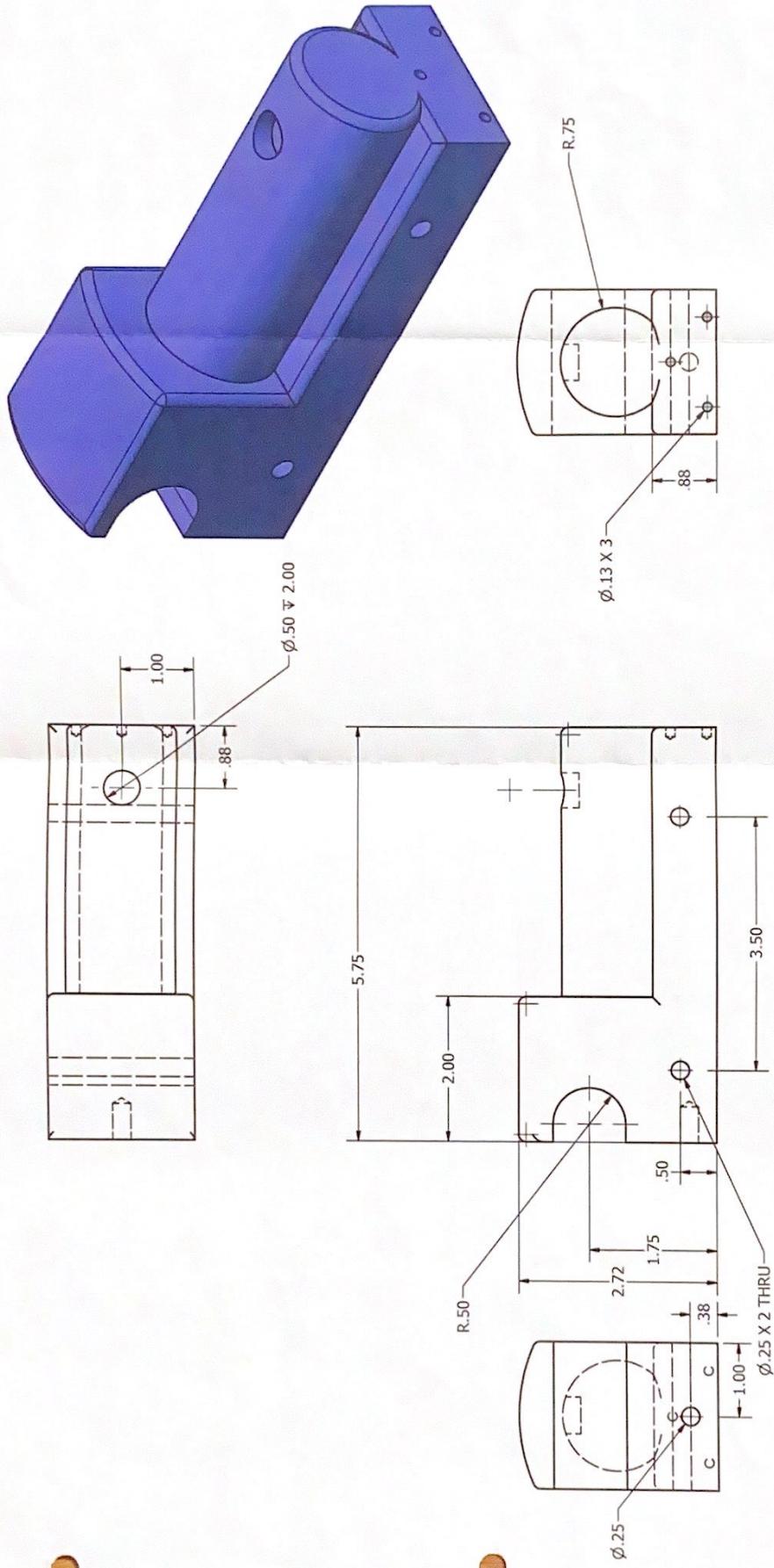
PASSAIC COUNTY TECHNICAL INSTITUTE  
45 Reinhardt Road, Wayne, NJ 07470 (973) 790-6000

PROJECT LEAD THE WAY	DRAWING TITLE:	COW CATCHER	DRAWING NO.	IDE-KJR-DW-09
PLTW	DRAWN BY:	K E Y U R RANA	APPROVED BY:	M. MILLER
PROJECT TRAIN	SIZE	A	DATE	2 - 7 - 17

REVISION  
SCALE  
SHEET TWO

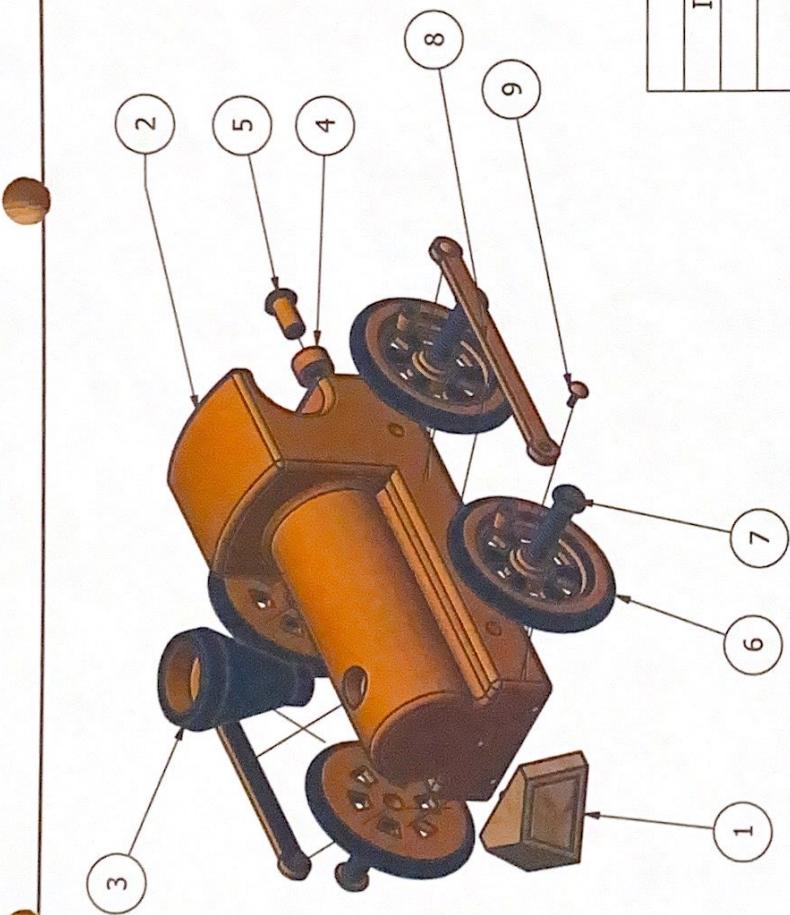


PROJECT LEAD THE WAY		PASSAIC COUNTY TECHNICAL INSTITUTE	
		45 Reinhardt Road, Wayne, NJ 07470 (973) 790-6000	
DRAWING TITLE: WHEEL		DRAWING NO.: PLT-DW-10	
SIZE A	DRAWN BY: KEYUR RANA	APPROVED BY: M. MILLER	REVISION: SHEET NO.
	CHECKED BY: PROJECT: TRAIN	DATE: 2-7-17	SCALE: 1:1



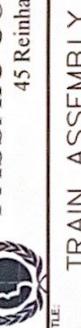
<b>PASSAIC COUNTY TECHNICAL INSTITUTE</b> 45 Reinhardt Road, Wayne, NJ 07470 (973) 790-6000 DRAWING NO. IED-KR-PT-01	
SHAPING TITLE: <b>TRAIN BODY</b>	APPROVED BY: <b>M. MILLER</b>
SIZE: DRAWN BY: <b>A</b> PRODUCT: <b>TRAIN</b>	DATE: <b>02-07-17</b> SCALE: <b>1:1</b>
CHECKED BY:	RECORDED SHEET NO.

Round all edges R0.1 except for drilled holes



PARTS LIST		
ITEM	QTY	PART NUMBER
1	1	IED-KJR-DW-09
2	1	IED-KJR-DW-01
3	1	IED-KJR-DW-02
4	1	IED-KJR-DW-03
5	1	IED-KJR-DW-04
6	4	IED-KJR-DW-05
7	4	IED-KJR-DW-06
8	2	IED-KJR-DW-07
9	4	IED-KJR-DW-08

### PASSAIC COUNTY TECHNICAL INSTITUTE



DRAWING TITLE:

TRAIN ASSEMBLY

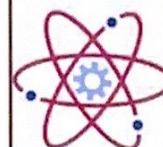
DRAWING NO.:

IED-KJR-AS-01

REVISION

SHEET NO.:

PROJECT LEAD THE WAY  
**PLTW**



PROJECT:  
TRAIN

SIZE:

DRAWN BY:  
**A**

CHECKED BY:

APPROVED BY:

M. MILLER

DATE:

2-7-17

SCALE: