

TRAIN PROJECT

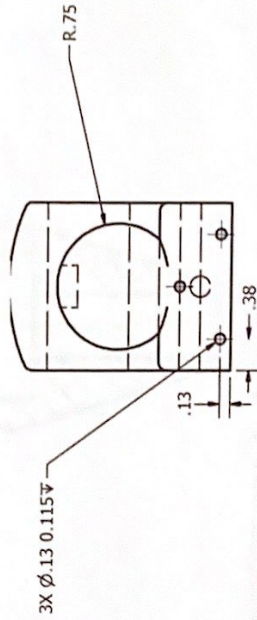
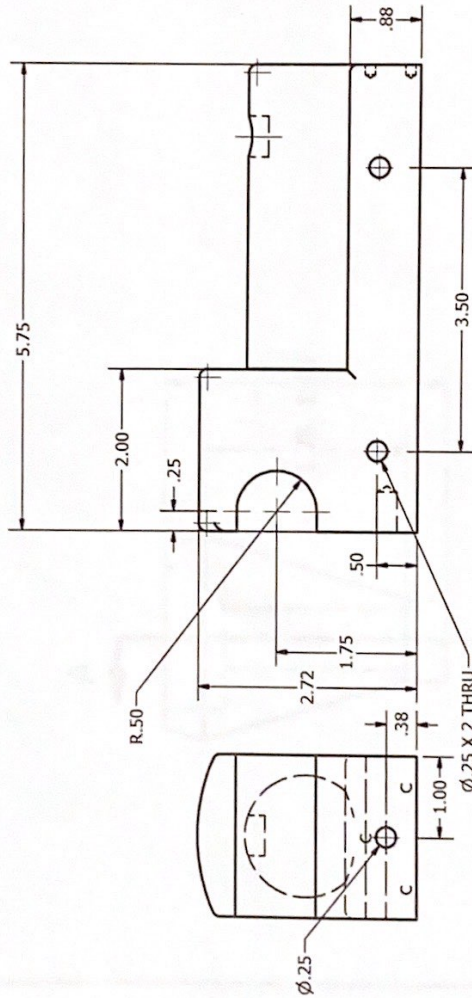
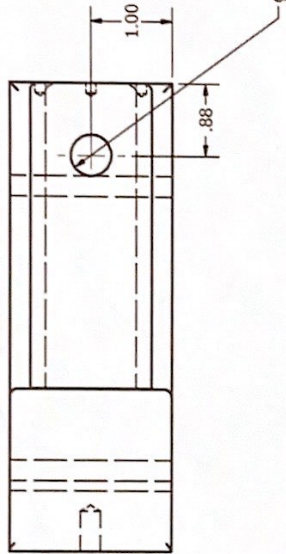


Keyur Rana

February 14, 2017

Introduction to Engineering Design

Passaic County Technical Institute



Round all edges R0.1 except for drilled holes

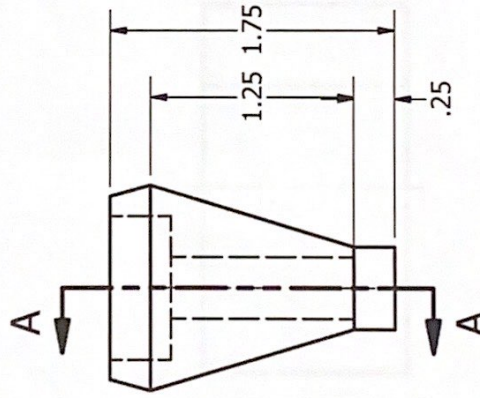
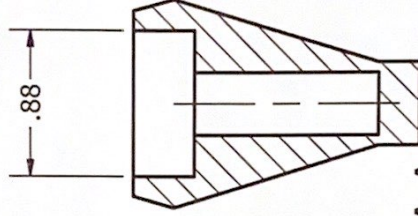
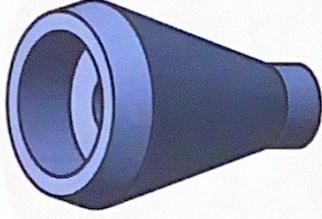
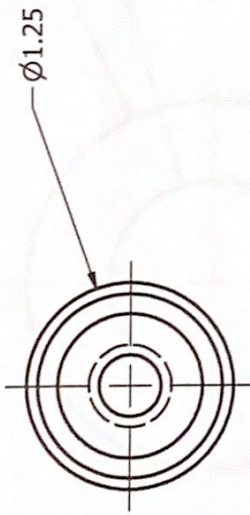


PROJECT
TRAIN



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

SIZE	A	DATE	02-07-17	SCALE	
DRAWN BY	KEYUR RANA	DATE		SCALE	
CHECKED BY		DATE		SCALE	
TRAIN BODY					
DATE					
APPROVED BY	M. MILLER				
DATE					
SCALE					
PROJECT NO.	IED-KJR-DW-01				



SECTION A-A
SCALE 1 : 1

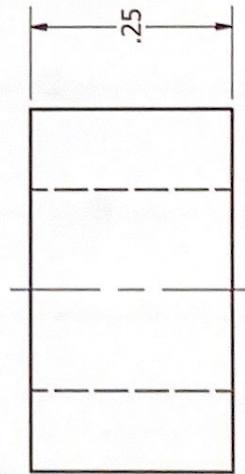
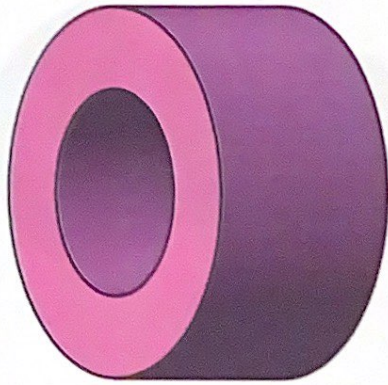
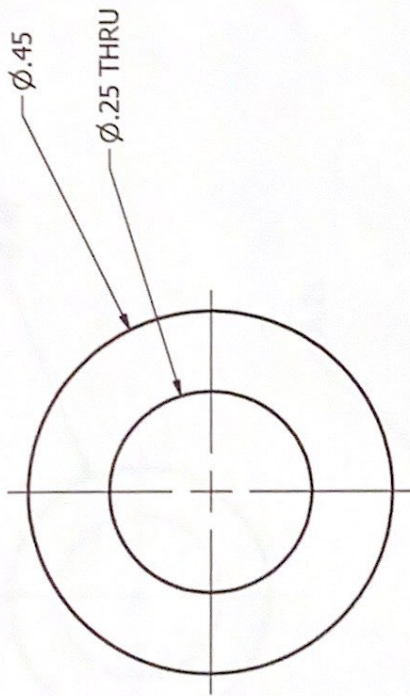


PROJECT
TRAIN



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

DRAWING TITLE STACK		DRAWING NO IED-KJR-DW-02	
SIZE A	DRAWN BY KEYUR RANA	DATE 2-7-17	APPROVED BY M. MILLER
	CHECKED BY:	SCALE	SHEET NO



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

PROJECT: TRAIN

SIZE: A

DRAWN BY: KEYUR RANA

DRAWING TITLE: HITCH MAGNET

DRAWING NO.

IED-KJR-DW-03

CHECKED BY:

DATE: 2-7-17

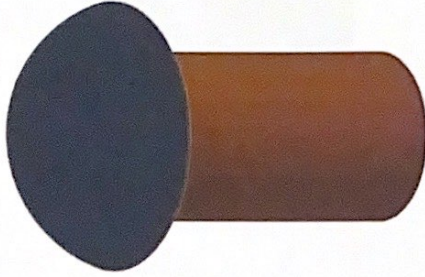
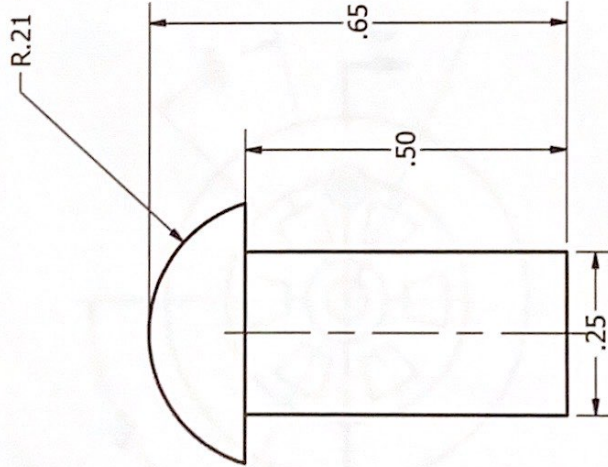
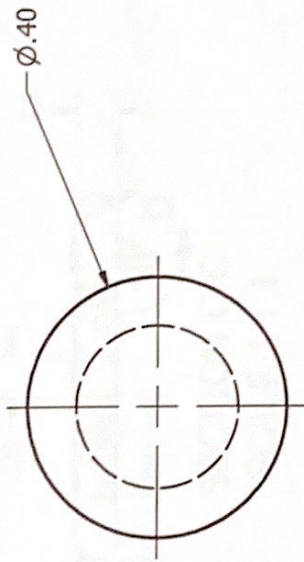
APPROVED BY: M. MILLER

REVISION:

SHEET NO.

SCALE:

SHEET NO.



PROJECT:
TRAIN



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

DRAWING TITLE:

HITCH PEG

SIZE

A

DRAWN BY:

KEYUR RANA

CHECKED BY:

DATE:

2-7-17

DATE:

DRAWING NO:

IED-KJR-DW-04

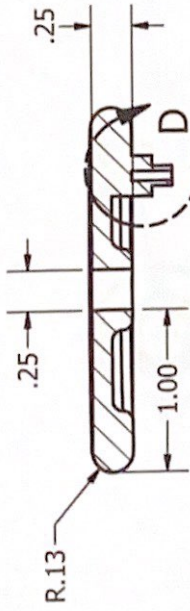
APPROVED BY:

M. MILLER

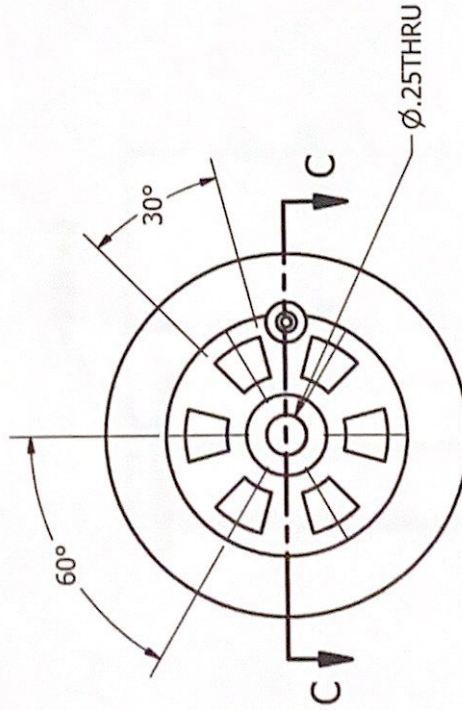
SCALE:

REVISION:

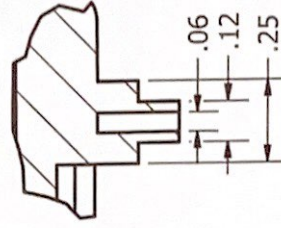
SHEET NO:



SECTION C-C
SCALE 1 : 1



DETAIL D
SCALE 2 : 1

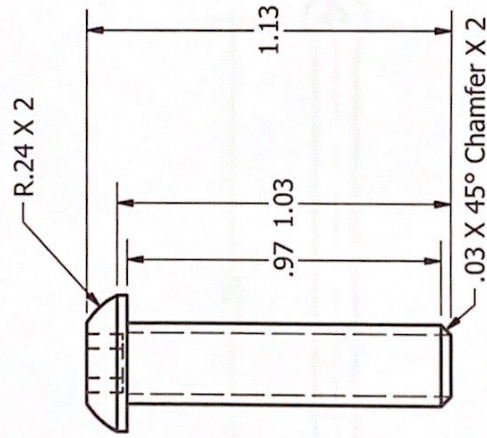
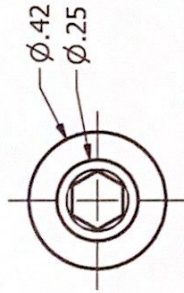


PROJECT:
TRAIN



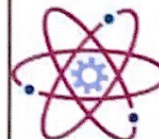
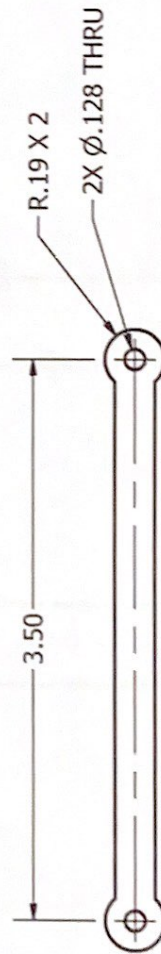
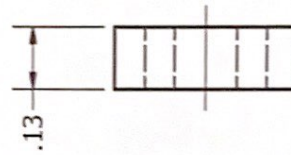
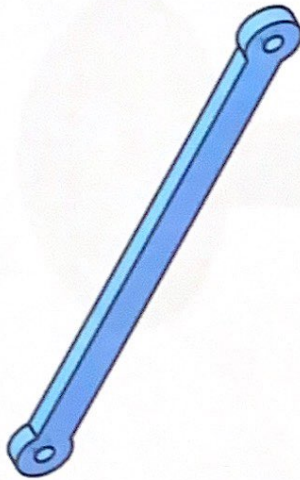
PASSAIC COUNTY TECHNICAL INSTITUTE
45 Reinhardt Road, Wayne, NJ 07470 (973) 790-6000

DRAWING TITLE WHEEL		DRAWING NO: IED-KJR-DW-05	
SIZE A	DRAWN BY: KEYUR RANA	DATE: 2-7-17	APPROVED BY: M. MILLER
	CHECKED BY:	SCALE:	REVISION:
			SHEET NO:



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

DRAWING TITLE: AXLE PEG		DRAWING NO: IED-KJR-DW-06	
SIZE: A	DRAWN BY: Keyur Rana	DATE: 2-7-17	APPROVED BY: M. MILLER
PROJECT: TRAIN		CHECKED BY:	REVISION:
		SCALE:	SHEET NO:



PROJECT LEAD THE WAY

PLTW

PROJECT:

DESIGNING WITH INVENTOR



PASSAIC COUNTY TECHNICAL INSTITUTE

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

DRAWING TITLE:

LINKAGE ARM

DRAWING NO:

IED-KJR-DW-07

SIZE:

A

DRAWN BY:

Keyur Rana

CHECKED BY:

DATE:

2-7-17

DATE:

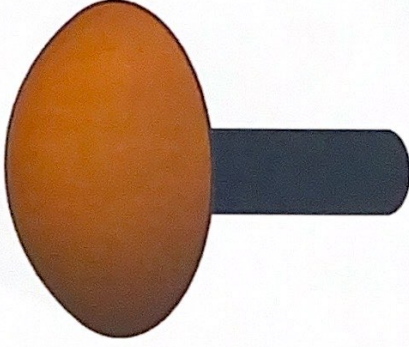
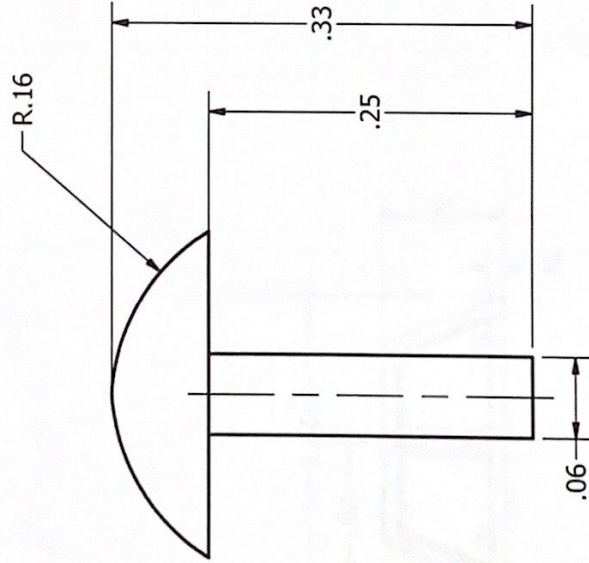
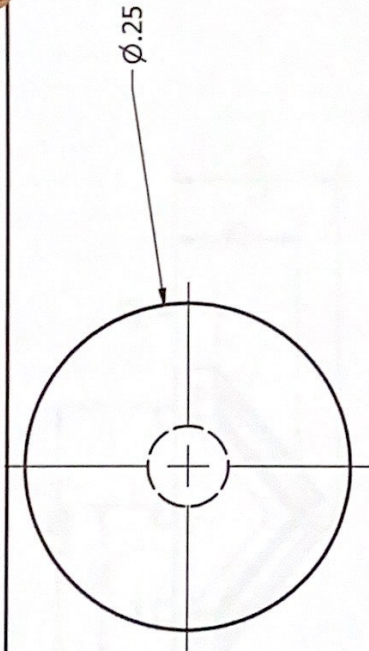
APPROVED BY:

M. MILLER

SCALE:

REVISION:

SHEET NO:

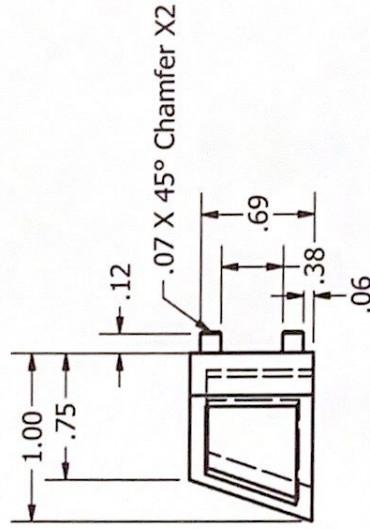
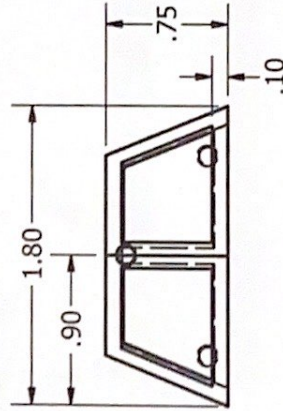
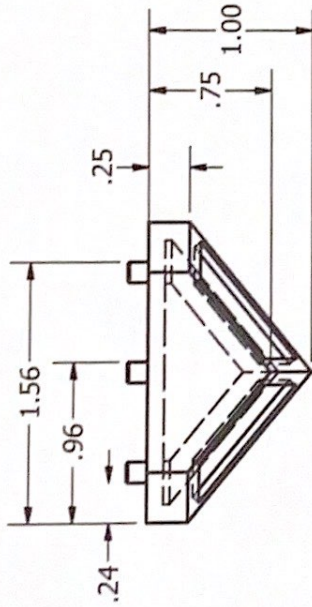


PROJECT
TRAIN



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

DRAWING TITLE: LINKAGE PEG		DRAWING NO: IED-KJR-DW-08	
SIZE: A	DRAWN BY: KEYUR RANA	DATE: 2-7-17	APPROVED BY: M. MILLER
CHECKED BY:		DATE:	REVISION:
		SCALE:	SHEET NO:



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

DRAWING TITLE:

COW CATCHER

DRAWING NO.

IDE-KJR-DW-09

SIZE
A

DRAWN BY: KEYUR RANA

DATE: 2-7-17

REVISION

CHECKED BY:

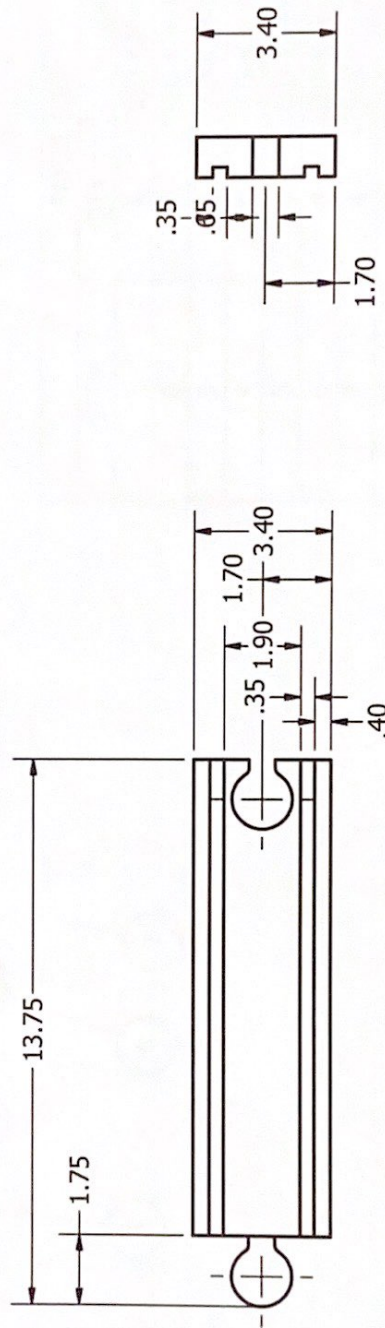
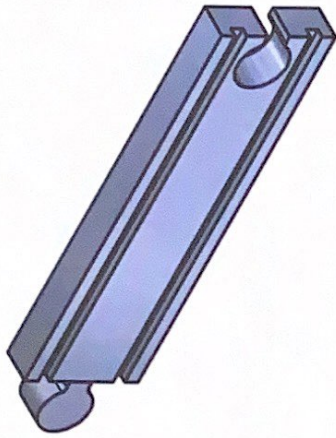
APPROVED BY: M. MILLER

DATE

SCALE

SHEET NO.

PROJECT
TRAIN



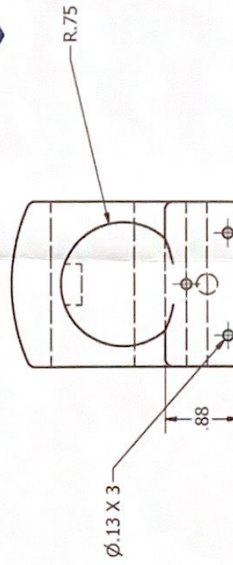
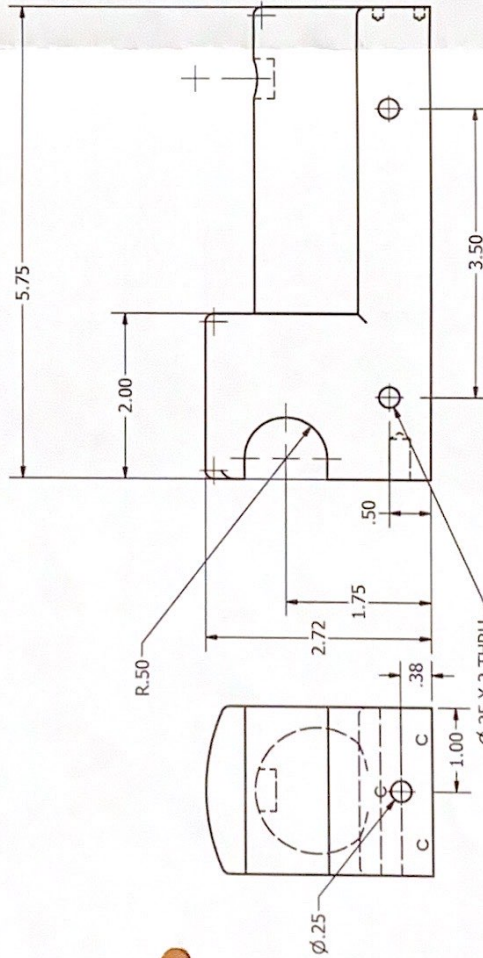
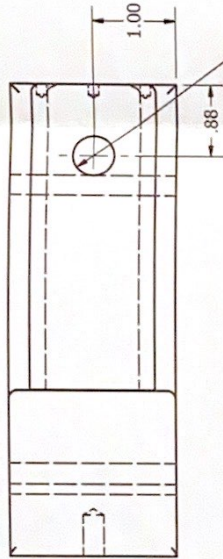
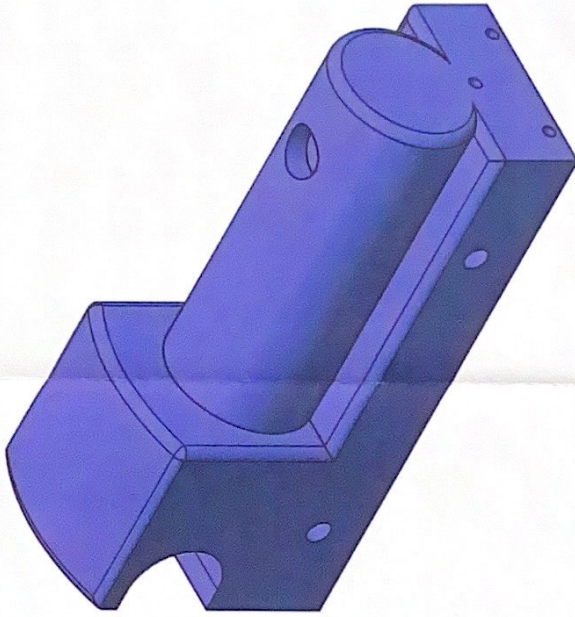
PROJECT:
TRAIN



PASSAIC COUNTY TECHNICAL INSTITUTE

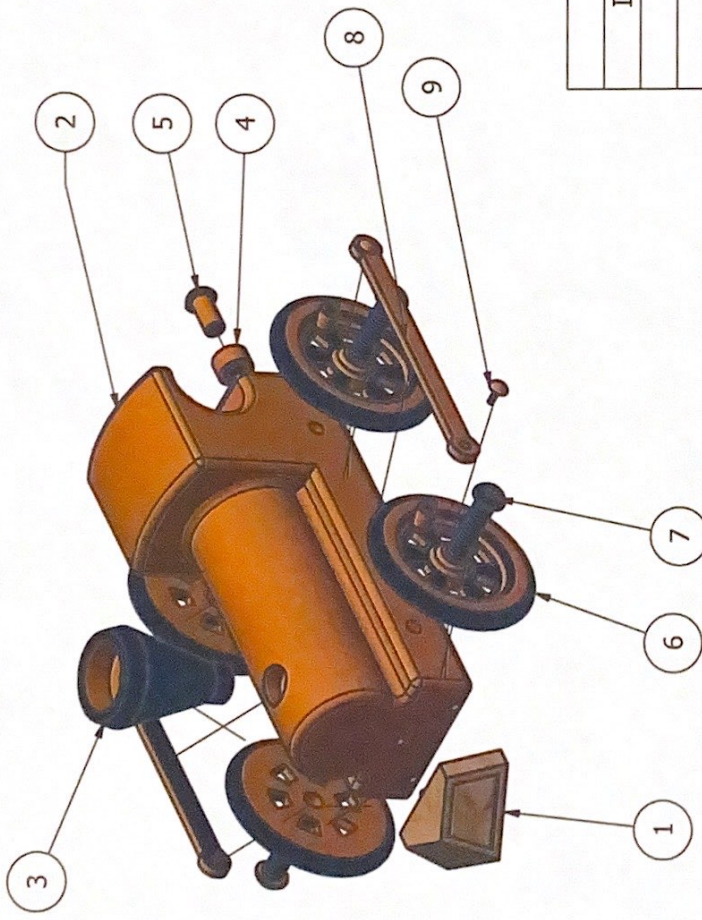
45 Reinhardt Road, Wayne, NJ 07470 (973) 790-6000

DRAWING TITLE: WHEEL		DRAWING NO: IED-KJR-DW-10	
SIZE: A	DRAWN BY: KEYUR RANA	DATE: 2-7-17	APPROVED BY: M. MILLER
	CHECKED BY:	DATE:	REVISION:
			SHEET NO:



 PLTW PROJECT LEAD THE WAY		 PASSAIC COUNTY TECHNICAL INSTITUTE 45 Reinhardt Road, Wayne, NJ 07470 (973) 790-6000		DRAWING NO. IED-KJR-PT-01	
		PROJECT TITLE TRAIN BODY		DATE 02-07-17	
PROJECT TRAIN		DRAWN BY KEYUR RANA		CHECKED BY M. MILLER	
SIZE A		SCALE 1:1		REVISIONS 1.0 02-07-17	

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

DRAWING TITLE: TRAIN ASSEMBLY		DRAWING NO: IED-KJR-AS-01	
SIZE: A	DRAWN BY: KEYUR RANA	DATE: 2-7-17	APPROVED BY: M. MILLER
PROJECT: TRAIN		SCALE:	SHEET NO: