

GENERAL NOTES:

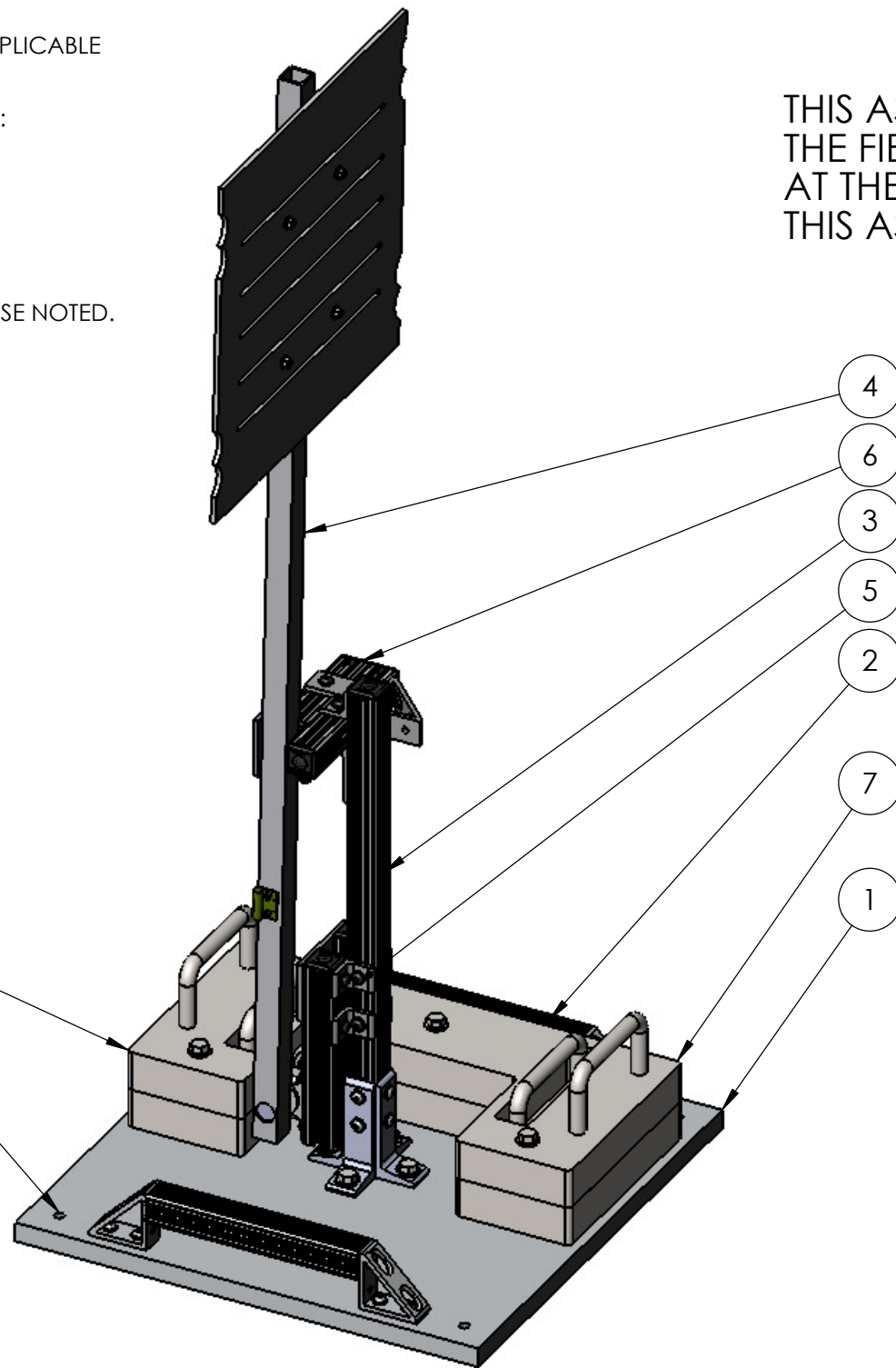
1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH APPLICABLE STANDARDS LISTED IN MIL-STD-100-G AND ASME Y14.100M
 2. THE FOLLOWING ARE MANDATORY UNLESS OTHERWISE SPECIFIED:
 - REMOVE BURRS
 - BREAK SHARP EDGES
 - TOLERANCES ON STOCK MATERIAL SIZES SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS
 3. FILE TO BE PROVIDED FOR FLAT PATTERN CUTTING.
- 5/16-18 HARDWARE TORQUE IS TO BE; 15-20 FT-LBS, UNLESS OTHERWISE NOTED.

THIS ASSEMBLY UTILIZES 8020 PRODUCT.
 THE FIELDED BDID WERE FABRICATED WITH "ITEMS PRODUCTS"
 AT THE BASE OF THE TRUNK FOR THE FLOOR MOUNTS.
 THIS ASSEMBLY USES 8020 FLOOR MOUNTS.

D
C
B
A

D
C
B
A

THE DURABILITY IMPACT DEVICE (BDID)
 MAY BE BOLTED TO THE FLOOR OR
 WEIGHTED DOWN AS SHOWN



ITEM NO.	PART NUMBER	DESCRIPTION	SHOW WEIGHT SET/QTY.
1	BDID-200	BASE PLATE	1
2	BDID-300	HANDLE	2
3	BDID-400	THE TRUNK	1
4	BDID-700	SWING PENDULUM	1
5	BDID-600	SHAFT SUPPORT	1
6	BDID-500	SLIDE LOCK	1
7	BDID-800	BDID WEIGHT KIT	1

DISTRIBUTION STATEMENT C. Distribution authorized to U.S. Government agencies and their contractors (Operational Use, date of determination-June 1989). Other requests shall be referred to the U.S. Army Aberdeen Test Center Commander, CSTE-DTC-AT-CO Aberdeen Proving Ground, MD 21005-5059.

Export Control Warning. "WARNING - This document contains technical data whose export is restricted by the Arms Export Control Act (Title 22, U.S.C., Sec 2751, et seq.) or the Export Administration Act of 1979 (Title 50, U.S.C., App. 2401 et seq), as amended. Violations of these export laws are subject to severe criminal penalties. Disseminate in accordance with provisions of DoD Directive 5230.25."

Handling and Destroying Unclassified/Limited Distribution Documents. Unclassified/Limited Distribution documents shall be handled using the same standard as "For Official Use Only (FOUO)" material, and will be destroyed by any method that will prevent disclosure of contents or reconstruction of the document. When local circumstances or experience indicates that this destruction method is not sufficiently protective of unclassified limited information, local authorities may prescribe other methods but must give due consideration to the additional expense balanced against the degree of sensitivity.

**ABERDEEN TEST CENTER
 CAGE CODE 44ZX5**

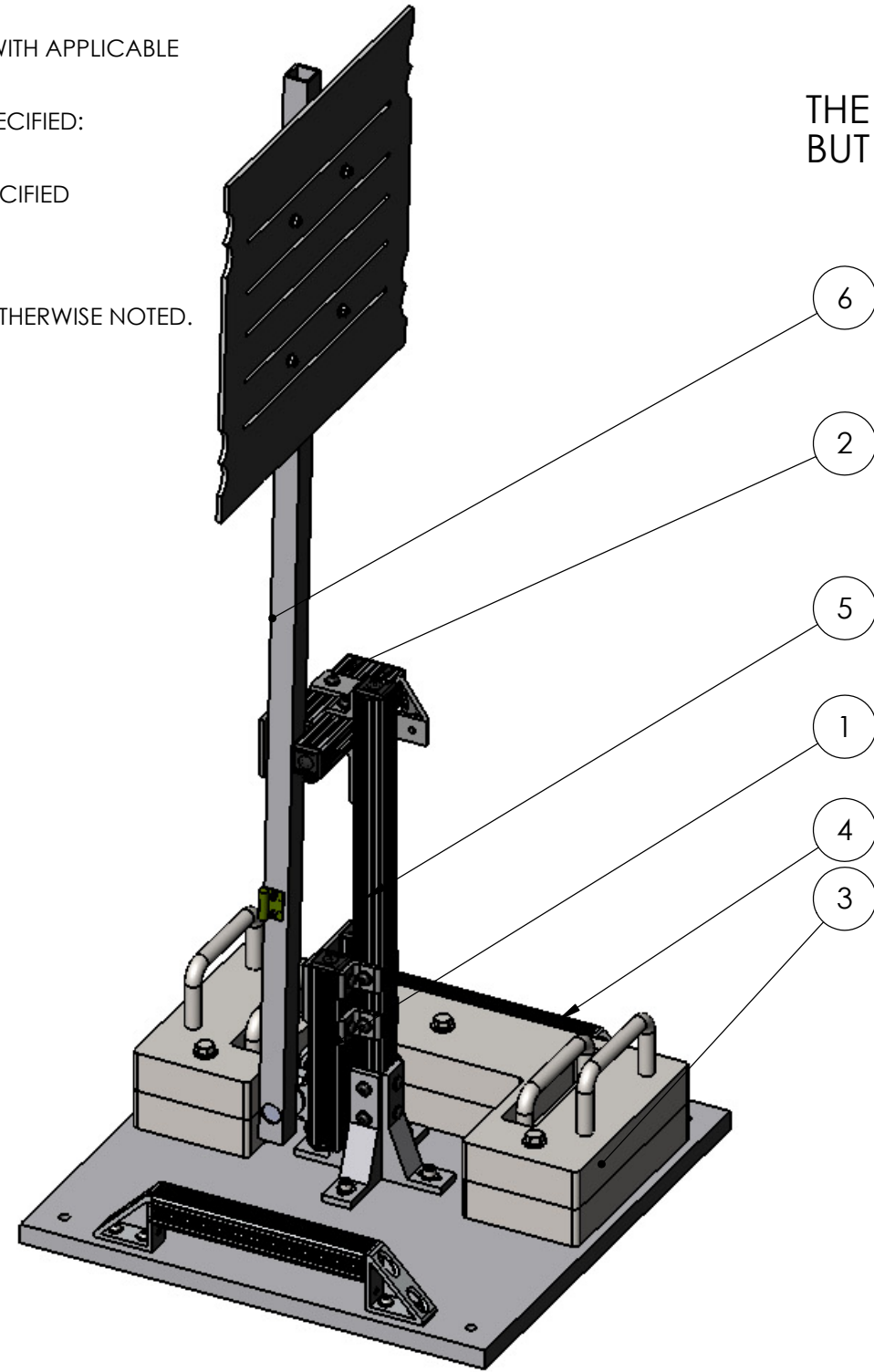
--		--		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES GENERAL TOLERANCES: FRACTIONAL ± 1/32 ANGULAR: MACH ± 1° BEND ± 3° X ± 0.063 X.XX ± 0.010 X.X ± 0.031 X.XXX ± 0.005	NAME	DATE	
--		--			DRAWN BY:	GDL 09/13/13	
--		--			CHECKED BY:	CDH 10/08/13	
NEXT ASSY		NEXT ASSY			ENG APPR.:	-- --/--	
				MFG APPR.:	-- --/--		
				MACHINE FINISH:	125	INTERPRET GEO. TOL. PER:	ASME Y14.5M-1994
				MATERIAL:	MATERIAL DESCRIPTION:		
				QUANTITY:	(1) REQ'D	WEIGHT:	278.31 lbs.
				COMMENTS: HARDWARE: 10-24 TORQUE REQ'D 2-3 FT-LBS 1/4-20 TORQUE REQ'D 6-7 FT-LBS 5/16-18 TORQUE REQ'D 15-20 FT-LBS 3/8-16 TORQUE REQ'D 22-25 FT-LBS			
DO NOT SCALE DRAWING							

ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT US ARMY ABERDEEN TEST CENTER ABERDEEN PROVING GROUND, MD 21005-5059			
TITLE: DURABILITY IMPACT DEVICE BODY ARMOR COMPLETE ASSEMBLY			
SIZE B	DWG. NO. BDID-100-0		REV 0
SCALE: 1:16		SHEET 1 OF 2	

GENERAL NOTES:

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 - BREAK SHARP EDGES
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 3. FILE TO BE PROVIDED FOR FLAT PATTERN CUTTING.
- 5/16-18 HARDWARE TORQUE IS TO BE; 15-20 FT-LBS, UNLESS OTHERWISE NOTED.

THE FLOOR MOUNTS IN THIS ASSEMBLY ARE NOT 8020 PRODUCT. BUT THIS IS HOW THE CURRENT DEVICES ARE FABRICATED.



ITEM NO.	PART NUMBER	DESCRIPTION	Default/ QTY.
1	BDID-600	SHAFT SUPPORT	1
2	BDID-500	SLIDE LOCK	1
3	BDID-200	BASE PLATE	1
4	BDID-300	HANDLE	2
5	BDID-400	THE TRUNK	1
6	BDID-700	SWING PENDULUM	1
7	BDID-800	BDID WEIGHT KIT	1

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**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

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--	--
NEXT ASSY	NEXT ASSY

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
 GENERAL TOLERANCES:
 FRACTIONAL ± 1/32
 ANGULAR: MACH ± 1° BEND ± 3°
 X ± 0.063 X.XX ± 0.010
 X.X ± 0.031 X.XXX ± 0.005

MACHINE FINISH: 125	INTERPRET GEO. TOL. PER: ASME Y14.5M-1994
MATERIAL:	MATERIAL DESCRIPTION:
QUANTITY: (1) REQ'D	WEIGHT: 279.25 lbs.

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN BY:	GDL	09/13/13
CHECKED BY:	CDH	10/08/13
ENG APPR.:	--	--/--
MFG APPR.:	--	--/--

COMMENTS:
 HARDWARE:
 10-24 TORQUE REQ'D 2-3 FT-LBS
 1/4-20 TORQUE REQ'D 6-7 FT-LBS
 5/16-18 TORQUE REQ'D 15-20 FT-LBS
 3/8-16 TORQUE REQ'D 22-25 FT-LBS

ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT
 US ARMY ABERDEEN TEST CENTER
 ABERDEEN PROVING GROUND, MD 21005-5059

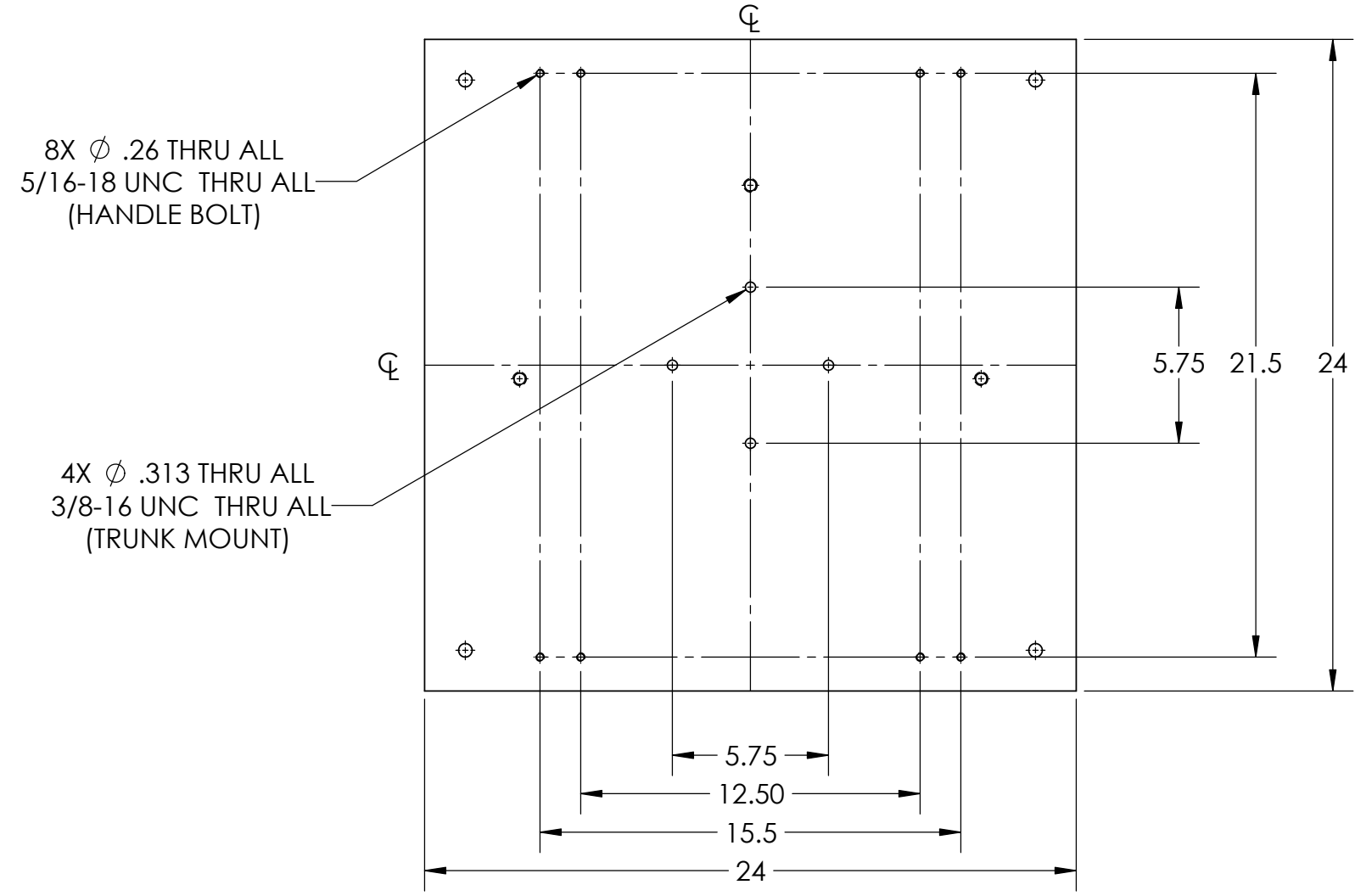
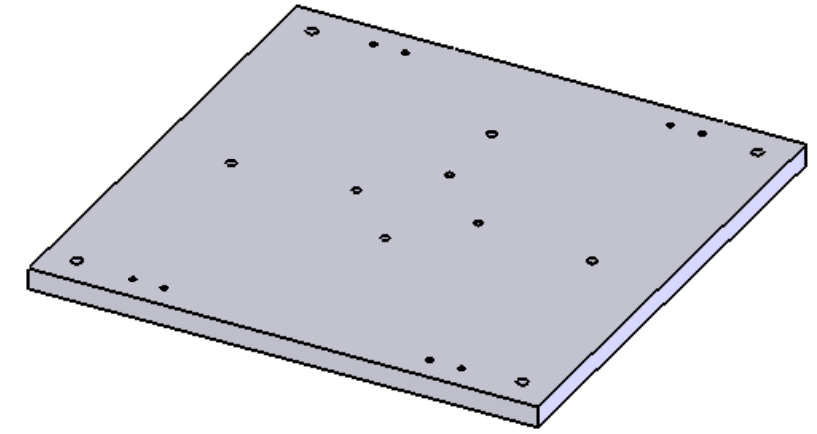
TITLE:
**DURABILITY IMPACT DEVICE
 BODY ARMOR
 COMPLETE ASSEMBLY**

SIZE B	DWG. NO. BDID-100-0	REV 0
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SCALE: 1:16 SHEET 2 OF 2

GENERAL NOTES:

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 - BREAK SHARP EDGES
 - TOLERANCES ON STOCK MATERIAL SIZES SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS
3. FILE TO BE PROVIDED FOR FLAT PATTERN CUTTING.



THE FOUR, 3/8-16 HOLES SHOWN ARE FOR THE "ITEMS PRODUCT" FLOOR MOUNTS (TRUNK MOUNT).

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**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

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BDID-100-0	--
NEXT ASSY	NEXT ASSY

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES	
GENERAL TOLERANCES:	
FRACTIONAL $\pm 1/32$	
ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 3^\circ$	
X ± 0.063	X.XX ± 0.010
X.X ± 0.031	X.XXX ± 0.005
MACHINE FINISH: 125	INTERPRET GEO. TOL. PER: ASME Y14.5M-1994
MATERIAL: 6061 Alloy	MATERIAL DESCRIPTION: 1" THICK PLATE
QUANTITY: (1) REQ'D	WEIGHT: 55.98 lbs.
DO NOT SCALE DRAWING	

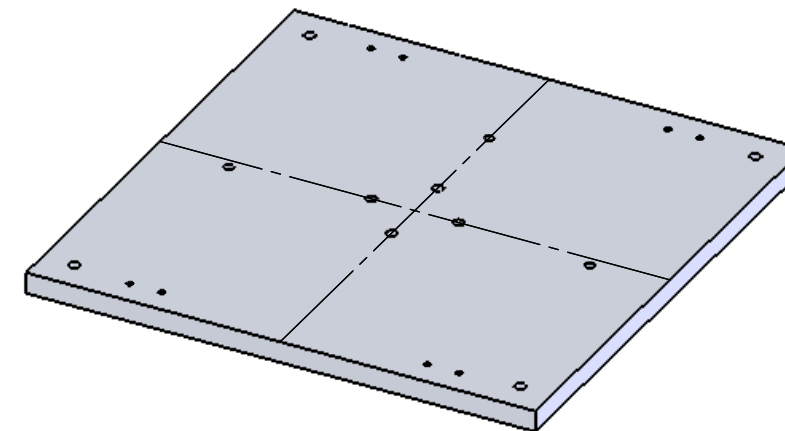
NAME	DATE
GDL	09/13/13
CHECKED BY:	CDH
10/08/13	
ENG APPR.:	--
--/--	
MFG APPR.:	--
--/--	

COMMENTS:
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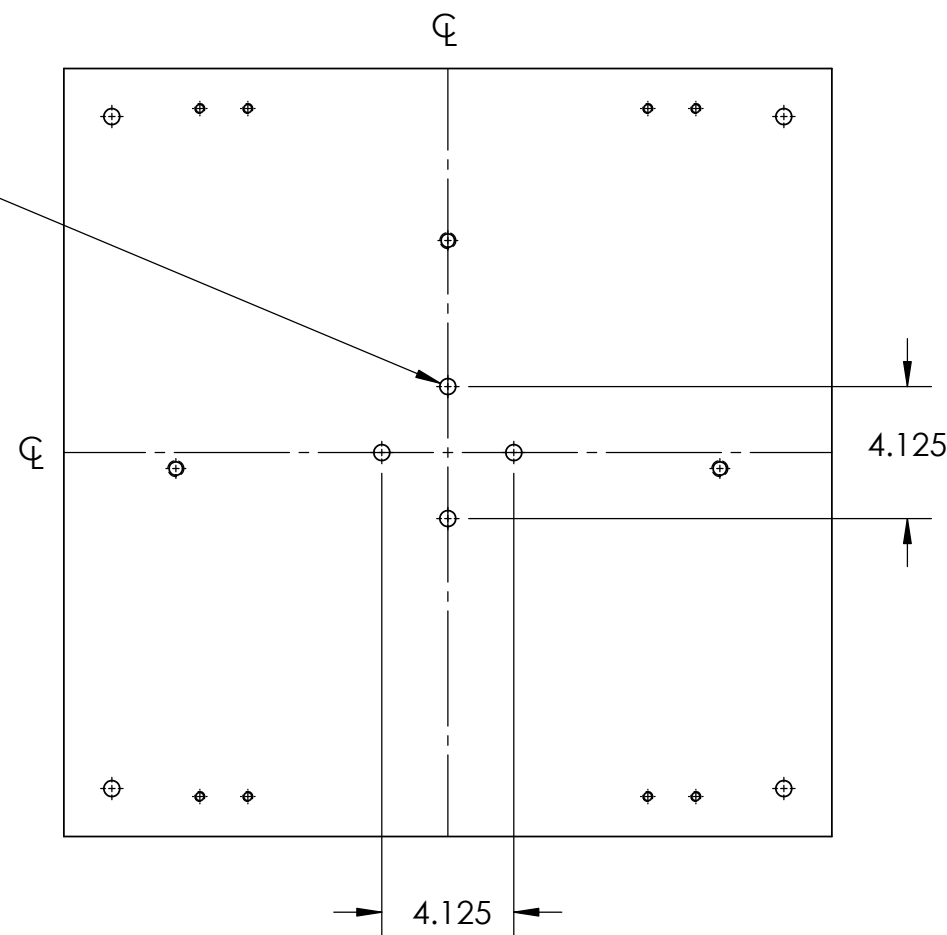
ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT US ARMY ABERDEEN TEST CENTER ABERDEEN PROVING GROUND, MD 21005-5059		
TITLE: BASE PLATE BODY ARMOR DURABILITY IMPACT DEVICE		
SIZE B	DWG. NO. BDID-200-0	REV 0
SCALE: 1:8		SHEET 1 OF 3

GENERAL NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH APPLICABLE STANDARDS LISTED IN MIL-STD-100-G AND ASME Y14.100M
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 - BREAK SHARP EDGES
 - TOLERANCES ON STOCK MATERIAL SIZES SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS
3. FILE TO BE PROVIDED FOR FLAT PATTERN CUTTING.



4X Ø .42 THRU ALL
1/2-13 UNC THRU ALL
(TRUNK MOUNT)



IF ALL HARDWARE IS TO BE FROM 8020, THEN UTILIZE THIS INNER HOLE PATTERN.

THE FOUR, 1/2-13 HOLES ARE FOR THE 8020 FLOOR MOUNTS.

DISTRIBUTION STATEMENT C. Distribution authorized to U.S. Government agencies and their contractors (Operational Use, date of determination-June 1989). Other requests shall be referred to the U.S. Army Aberdeen Test Center Commander, CSTE-DTC-AT-CO Aberdeen Proving Ground, MD 21005-5059.

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**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

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BDID-100-0	--
NEXT ASSY	NEXT ASSY

UNLESS OTHERWISE SPECIFIED:	
DIMENSIONS ARE IN INCHES GENERAL TOLERANCES: FRACTIONAL ± 1/32 ANGULAR: MACH ± 1° BEND ± 3° X ± 0.063 X.XX ± 0.010 X.X ± 0.031 X.XXX ± 0.005	
MACHINE FINISH: 125	INTERPRET GEO. TOL. PER: ASME Y14.5M-1994
MATERIAL: 6061 Alloy	MATERIAL DESCRIPTION: 1" THICK PLATE
QUANTITY: (1) REQ'D	WEIGHT: 55.95 lbs.
DO NOT SCALE DRAWING	

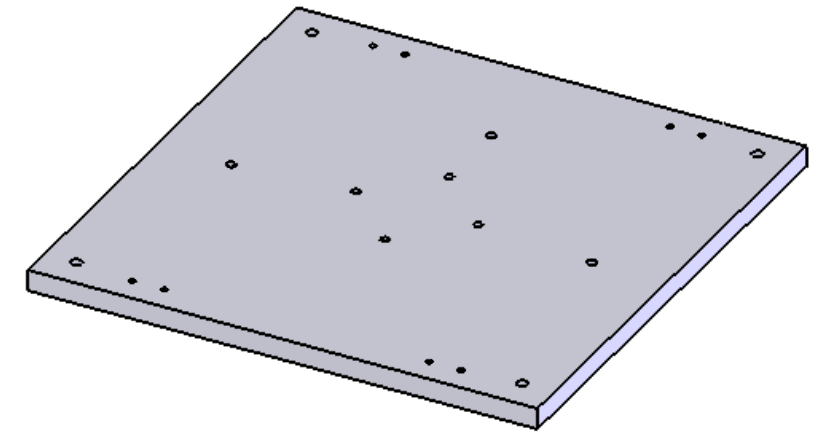
	NAME	DATE
DRAWN BY:	GDL	09/13/13
CHECKED BY:	CDH	10/08/13
ENG APPR.:	--	--/--
MFG APPR.:	--	--/--

COMMENTS: --

ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT US ARMY ABERDEEN TEST CENTER ABERDEEN PROVING GROUND, MD 21005-5059		
TITLE: BASE PLATE BODY ARMOR DURABILITY IMPACT DEVICE		
SIZE B	DWG. NO. BDID-200-0	REV 0
SCALE: 1:8		SHEET 2 OF 3

GENERAL NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH APPLICABLE STANDARDS LISTED IN MIL-STD-100-G AND ASME Y14.100M
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 - BREAK SHARP EDGES
 - TOLERANCES ON STOCK MATERIAL SIZES SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS
3. FILE TO BE PROVIDED FOR FLAT PATTERN CUTTING.

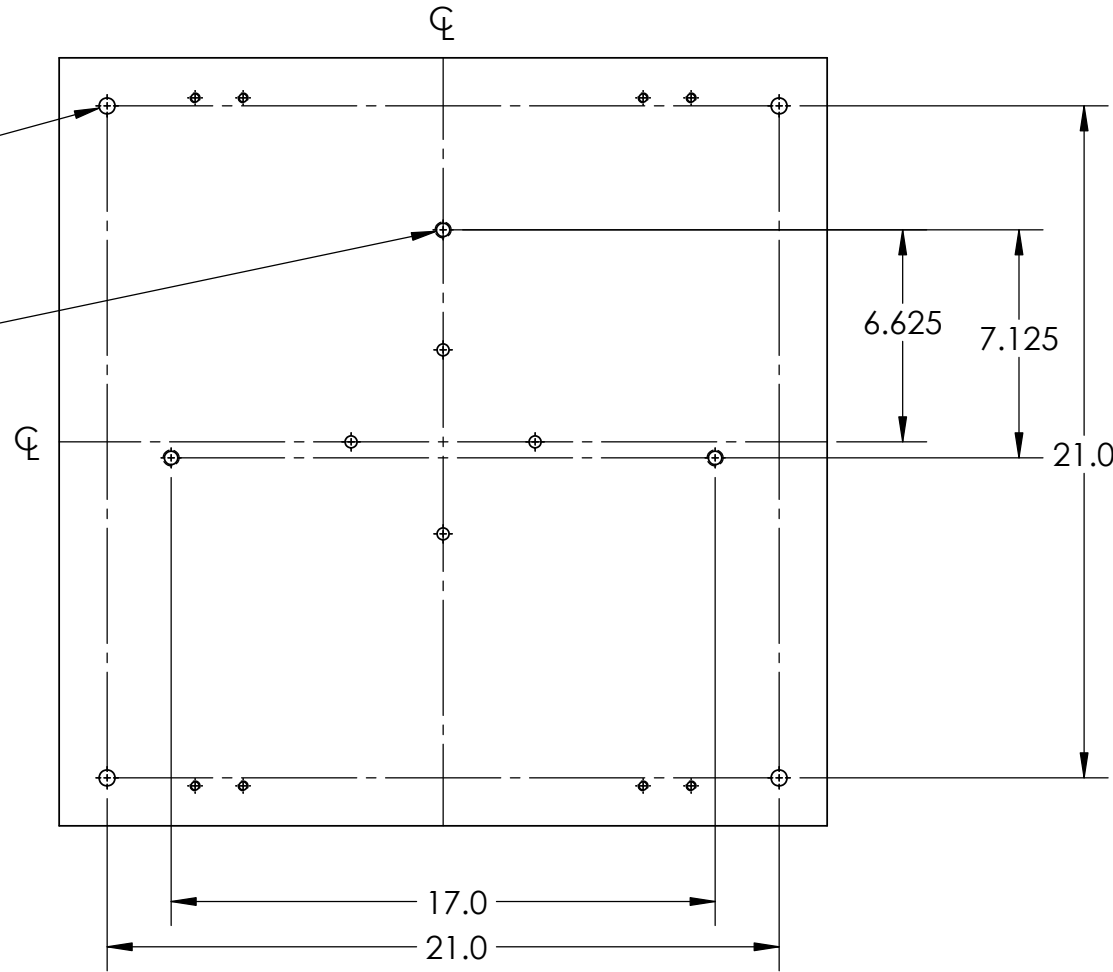


D
C
B
A

D
C
B
A

4X ϕ .50 THRU ALL
(FLOOR ANCHORS)

3X ϕ .42 THRU ALL
1/2-13 UNC THRU ALL
(WEIGHT SET)



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**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

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--	--
BDID-100-0	--
NEXT ASSY	NEXT ASSY

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
GENERAL TOLERANCES:
FRACTIONAL \pm 1/32
ANGULAR: MACH \pm 1° BEND \pm 3°
X \pm 0.063 X.XX \pm 0.010
X.X \pm 0.031 X.XXX \pm 0.005

MACHINE FINISH: 125	INTERPRET GEO. TOL. PER: ASME Y14.5M-1994
MATERIAL: 6061 Alloy	MATERIAL DESCRIPTION: 1" THICK PLATE
QUANTITY: (1) REQ'D	WEIGHT: 55.98 lbs.

DO NOT SCALE DRAWING

DRAWN BY:	GDL	DATE	09/13/13
CHECKED BY:	CDH	DATE	10/08/13
ENG APPR.:	--	DATE	--/--
MFG APPR.:	--	DATE	--/--

COMMENTS:
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ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT
US ARMY ABERDEEN TEST CENTER
ABERDEEN PROVING GROUND, MD 21005-5059

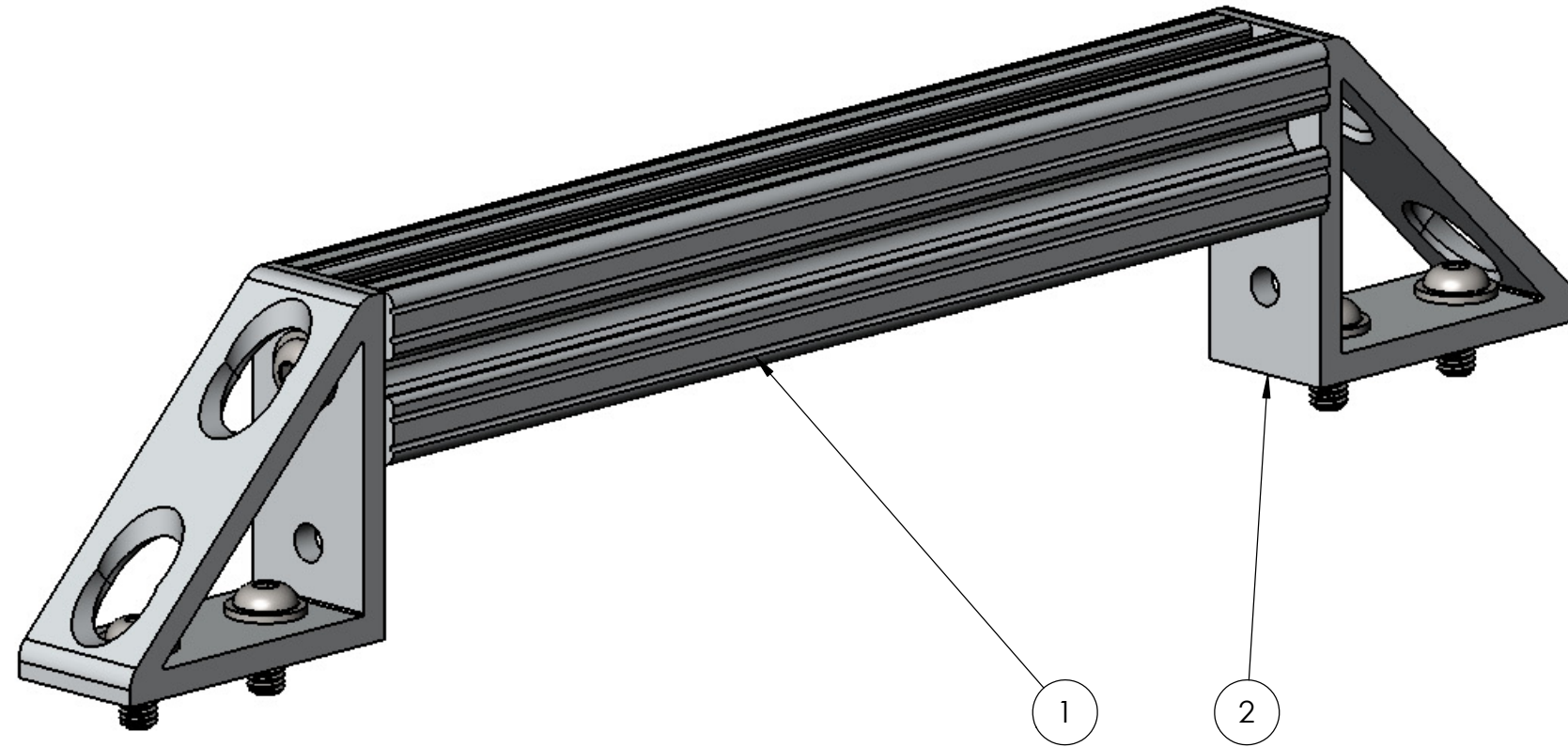
TITLE:
**BASE PLATE
BODY ARMOR
DURABILITY IMPACT DEVICE**

SIZE B	DWG. NO. BDID-200-0	REV 0
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SCALE: 1:8 SHEET 3 OF 3

GENERAL NOTES:

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 - BREAK SHARP EDGES
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3. FILE TO BE PROVIDED FOR FLAT PATTERN CUTTING.



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	BDID-301	8020-1515, 11" Long	1
2	8020-4336	8020-4336	2

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**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

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--	--
BDID-100-0	--
NEXT ASSY	NEXT ASSY

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
 GENERAL TOLERANCES:
 FRACTIONAL ± 1/32
 ANGULAR: MACH ± 1° BEND ± 3°
 X ± 0.063 X.XX ± 0.010
 X.X ± 0.031 X.XXX ± 0.005

MACHINE FINISH: 125	INTERPRET GEO. TOL. PER: ASME Y14.5M-1994
MATERIAL:	MATERIAL DESCRIPTION:
QUANTITY: (2) REQ'D	WEIGHT: 1.90 lbs.

DO NOT SCALE DRAWING

NAME	DATE
GDL	09/13/13
CHECKED BY:	CDH
10/08/13	
ENG APPR.:	--
--/--	
MFG APPR.:	--
--/--	

COMMENTS:
--

ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT
 US ARMY ABERDEEN TEST CENTER
 ABERDEEN PROVING GROUND, MD 21005-5059

TITLE:
**HANDLE
 BODY ARMOR
 DURABILITY IMPACT DEVICE**

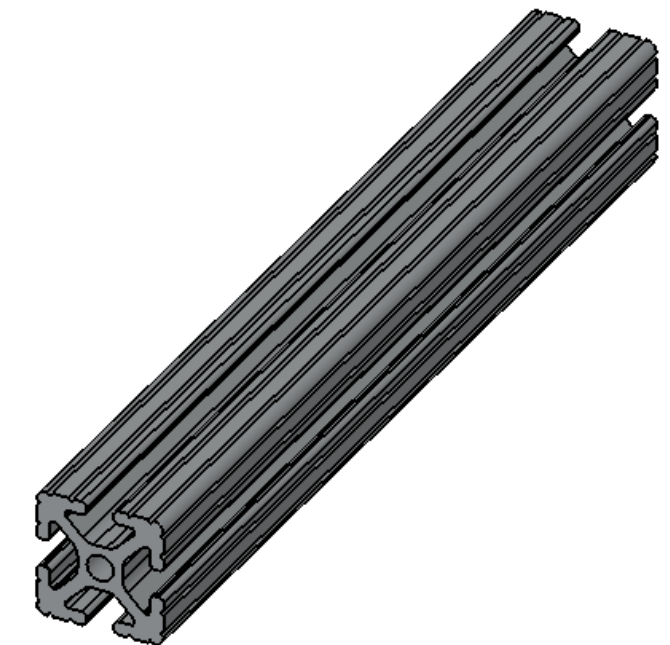
SIZE B	DWG. NO. BDID-300-0	REV 0
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SCALE: 1:4 SHEET 1 OF 1

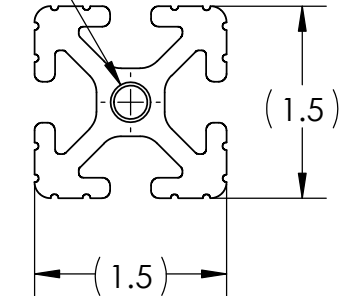
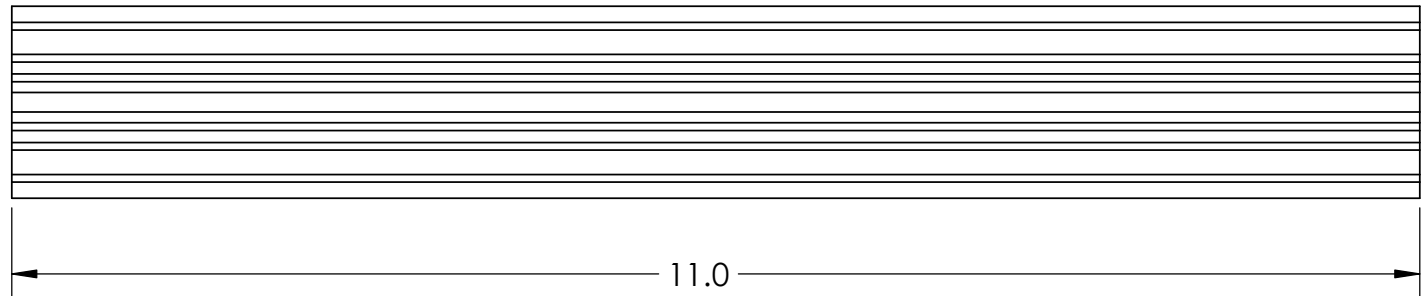
8 7 6 5 4 3 2 1

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3. FILE TO BE PROVIDED FOR FLAT PATTERN CUTTING.



5/16-18 UNC ∇ 1.00
BOTH ENDS



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**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

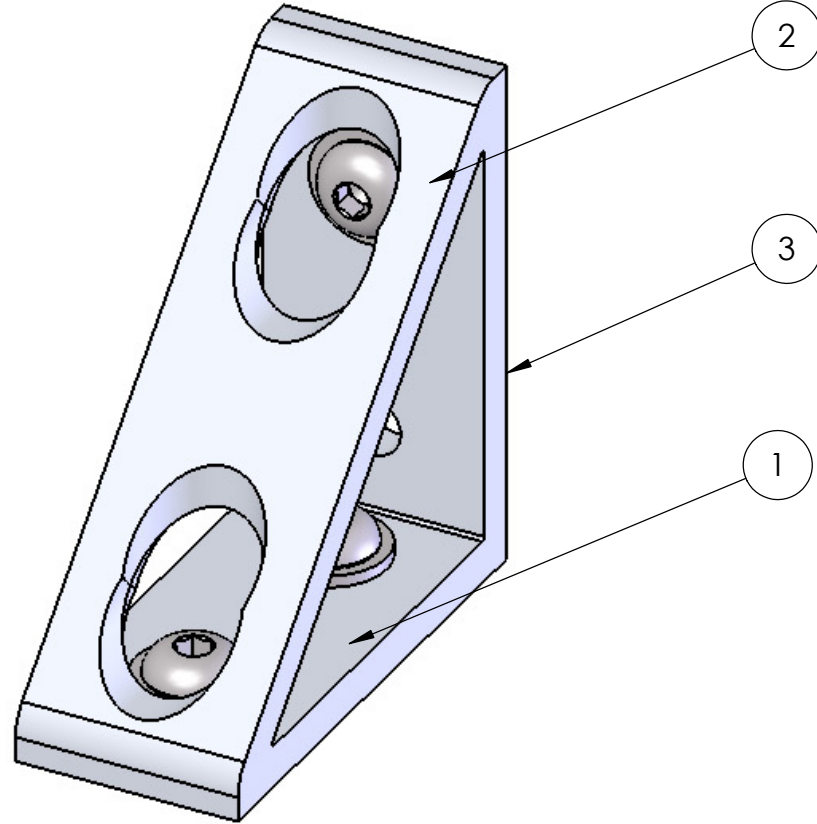
--	--	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES GENERAL TOLERANCES: FRACTIONAL \pm 1/32 ANGULAR: MACH \pm 1° BEND \pm 3° X \pm 0.063 X.XX \pm 0.010 X.X \pm 0.031 X.XXX \pm 0.005	DRAWN BY:	GDL	09/13/13
BDID-100-0	--		CHECKED BY:	CDH	10/08/13
BDID-300-0	--		ENG APPR.:	--	--/--
NEXT ASSY	NEXT ASSY		MFG APPR.:	--	--/--
		MACHINE FINISH: 125	INTERPRET GEO. TOL. PER: ASME Y14.5M-1994	COMMENTS: --	
		MATERIAL: 6061 Alloy	MATERIAL DESCRIPTION: 8020-1515		
		QUANTITY: (2) REQ'D	WEIGHT: 1.346 lbs.		
DO NOT SCALE DRAWING					

ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT US ARMY ABERDEEN TEST CENTER ABERDEEN PROVING GROUND, MD 21005-5059		
TITLE: 8020-1515, 11" Long BODY ARMOR HANDLE BAR		
SIZE B	DWG. NO. BDID-301-0	REV 0
SCALE: 1:4		SHEET 1 OF 1

8 7 6 5 4 3 2 1

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2. THE FOLLOWING ARE MANDATORY UNLESS OTHERWISE SPECIFIED:
 - REMOVE BURRS
 - BREAK SHARP EDGES
 - TOLERANCES ON STOCK MATERIAL SIZES SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS
3. FILE TO BE PROVIDED FOR FLAT PATTERN CUTTING.



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	8020-3114	8020-3114, SHCS 5/16 -18, 3/4" Long	3
2	8020-3260	8020-3260, 5/16" WASHER	3
3	8020-4336	8020-4336, 4 HOLE INSIDE GUSSET CORNER BRACKET	1

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**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

--	--
BDID-100-0	--
BDID-300-0	--
NEXT ASSY	NEXT ASSY

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
 GENERAL TOLERANCES:
 FRACTIONAL ± 1/32
 ANGULAR: MACH ± 1° BEND ± 3°
 X ± 0.063 X.XX ± 0.010
 X.X ± 0.031 X.XXX ± 0.005

MACHINE FINISH: 125 INTERPRET GEO. TOL. PER: ASME Y14.5M-1994
 MATERIAL: MATERIAL DESCRIPTION:
 QUANTITY: (4) REQ'D WEIGHT: 0.332 lbs.
 DO NOT SCALE DRAWING

	NAME	DATE
DRAWN BY:	GDL	09/20/13
CHECKED BY:	CDH	10/08/13
ENG APPR.:	--	--/--
MFG APPR.:	--	--/--

ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT
 US ARMY ABERDEEN TEST CENTER
 ABERDEEN PROVING GROUND, MD 21005-5059

TITLE:
 8020-4336
 BODY ARMOR
 DURABILITY IMPACT DEVICE

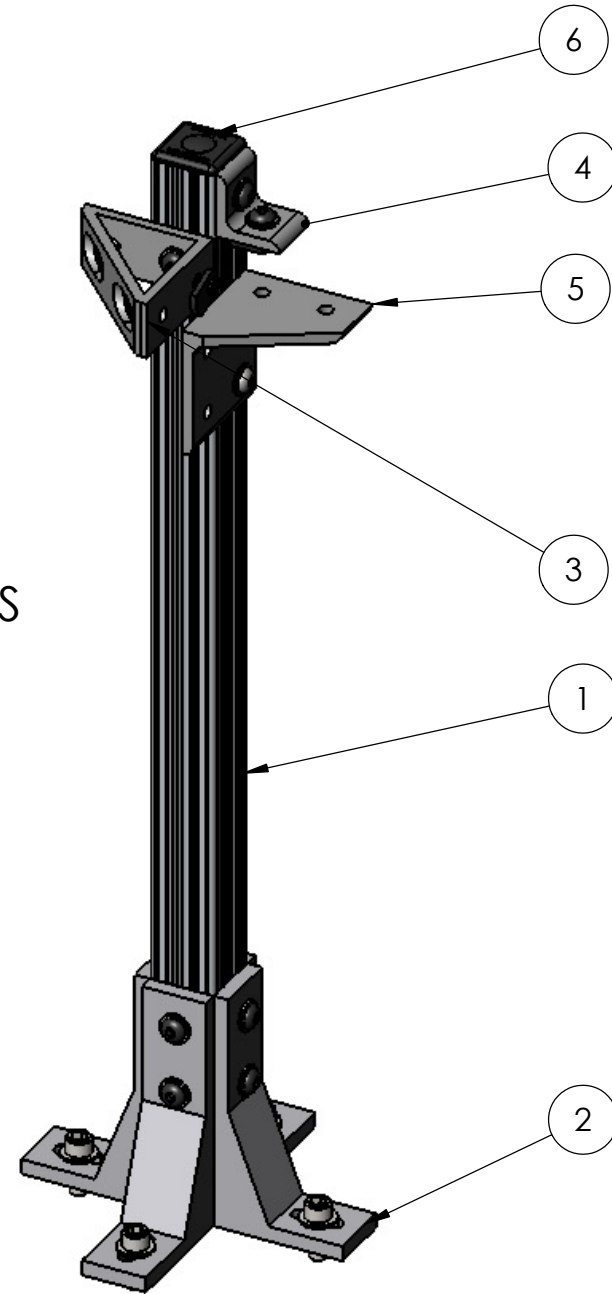
SIZE B	DWG. NO. BDID-302-0	REV 0
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SCALE: 1:2 SHEET 1 OF 1

GENERAL NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH APPLICABLE STANDARDS LISTED IN MIL-STD-100-G AND ASME Y14.100M
2. THE FOLLOWING ARE MANDATORY UNLESS OTHERWISE SPECIFIED:
 - REMOVE BURRS
 - BREAK SHARP EDGES
 - TOLERANCES ON STOCK MATERIAL SIZES SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS
3. FILE TO BE PROVIDED FOR FLAT PATTERN CUTTING.

THIS CONFIGURATION IS SHOWN AS FIELDIED, WITH 8020 PRODUCT AND "ITEMS PRODUCT" FOR FLOOR MOUNTS



ITEM NO.	PART NUMBER	DESCRIPTION	Default/QTY.
1	BDID-401	8020-1515, 25.5" LONG	1
2	Floor Mounts	ITEMS PRODUCT FLOOR MOUNTS	4
3	2 SINGLES INNER HOLES	8020-4336	1
4	8020-4302	8020-4302	1
5	8020-4308	8020-4308	1
6	8020-2030	8020-2030	1

DISTRIBUTION STATEMENT C. Distribution authorized to U.S. Government agencies and their contractors (Operational Use, date of determination-June 1989). Other requests shall be referred to the U.S. Army Aberdeen Test Center Commander, CSTE-DTC-AT-CO Aberdeen Proving Ground, MD 21005-5059.

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**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

--	--
--	--
BDID-100-0	--
NEXT ASSY	NEXT ASSY

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
 GENERAL TOLERANCES:
 FRACTIONAL ± 1/32
 ANGULAR: MACH ± 1° BEND ± 3°
 X ± 0.063 X.XX ± 0.010
 X.X ± 0.031 X.XXX ± 0.005

MACHINE FINISH: 125	INTERPRET GEO. TOL. PER: ASME Y14.5M-1994
MATERIAL: --	MATERIAL DESCRIPTION:
QUANTITY: (1) REQ'D	WEIGHT: 6.78 lbs.

DO NOT SCALE DRAWING

NAME	DATE
GDL	09/13/13
CHECKED BY:	CDH
10/08/13	
ENG APPR.:	--
--/--	
MFG APPR.:	--
--/--	

COMMENTS:
 HARDWARE:
 10-24 TORQUE REQ'D 2-3 FT-LBS
 1/4-20 TORQUE REQ'D 6-7 FT-LBS
 5/16-18 TORQUE REQ'D 15-20 FT-LBS
 3/8-16 TORQUE REQ'D 22-25 FT-LBS

ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT
 US ARMY ABERDEEN TEST CENTER
 ABERDEEN PROVING GROUND, MD 21005-5059

TITLE:
**THE TRUNK
 BODY ARMOR
 DURABILITY IMPACT DEVICE**

SIZE B	DWG. NO. BDID-400-0	REV 0
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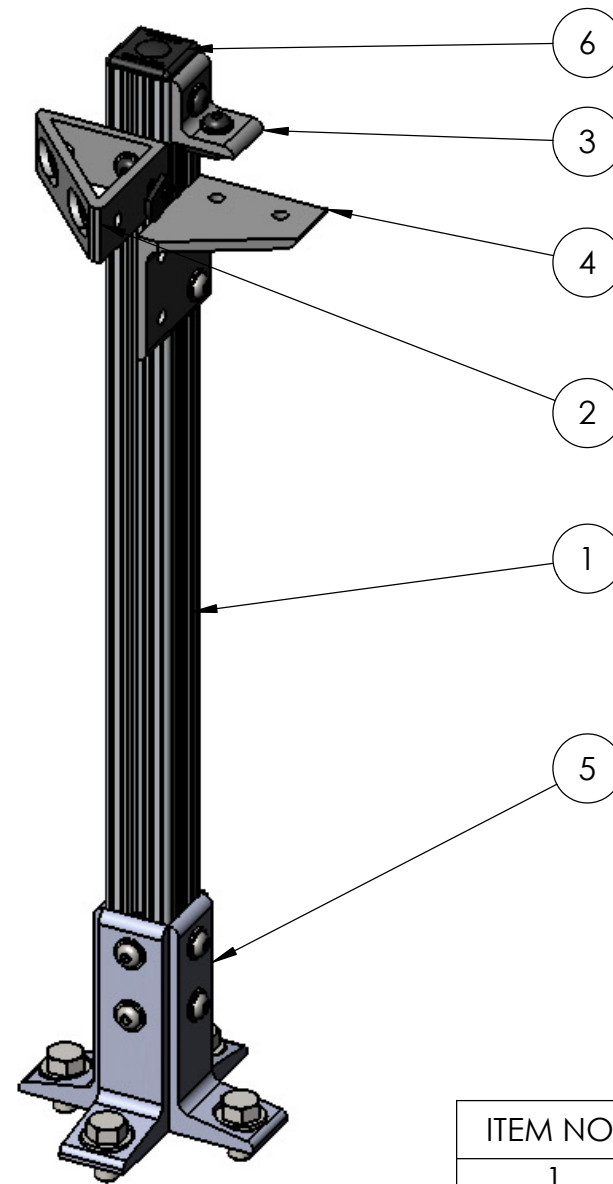
SCALE: 1:8 SHEET 1 OF 2

GENERAL NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH APPLICABLE STANDARDS LISTED IN MIL-STD-100-G AND ASME Y14.100M
2. THE FOLLOWING ARE MANDATORY UNLESS OTHERWISE SPECIFIED:
 - REMOVE BURRS
 - BREAK SHARP EDGES
 - TOLERANCES ON STOCK MATERIAL SIZES SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS
3. FILE TO BE PROVIDED FOR FLAT PATTERN CUTTING.

ASSEMBLY NOTES:

1. PART 1 IS TO BE FLUSH WITH BOTTOMS OF FLOOR MOUNTS.
2. PART 3 IS TO BE FLUSH WITH TOP OF PART 1.
3. PARTS 2, 4 NEED TO BE 1.5" APART FOR LOCKING MECHANISM TO FREELY SLIDE THRU.



THIS CONFIGURATION IS SHOWN UTILIZING READILY AVAILABLE 8020 PRODUCTS.

ITEM NO.	PART NUMBER	DESCRIPTION	8020 BASE MOUNTS/QTY.
1	BDID-401	8020-1515, 25.5" LONG	1
2	2 SINGLES INNER HOLES	8020-4336	1
3	8020-4302	8020-4302	1
4	8020-4308	8020-4308	1
5	8020-2415	8020-2415	4
6	8020-2030	8020-2030	1

DISTRIBUTION STATEMENT C. Distribution authorized to U.S. Government agencies and their contractors (Operational Use, date of determination-June 1989). Other requests shall be referred to the U.S. Army Aberdeen Test Center Commander, CSTE-DTC-AT-CO Aberdeen Proving Ground, MD 21005-5059.

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**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

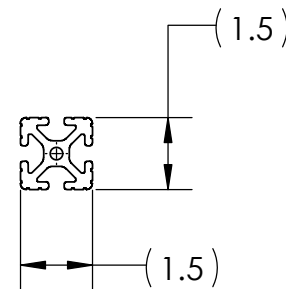
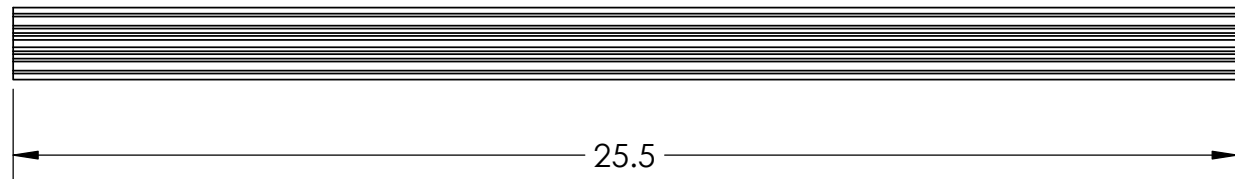
--	--	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES GENERAL TOLERANCES: FRACTIONAL ± 1/32 ANGULAR: MACH ± 1° BEND ± 3° X ± 0.063 X.XX ± 0.010 X.X ± 0.031 X.XXX ± 0.005	NAME	DATE
--	--		DRAWN BY: GDL	09/13/13
BDID-100-0	--		CHECKED BY: CDH	10/08/13
NEXT ASSY	NEXT ASSY		ENG APPR.: --	--/--
		MACHINE FINISH: 125	INTERPRET GEO. TOL. PER: ASME Y14.5M-1994	COMMENTS: HARDWARE: 10-24 TORQUE REQ'D 2-3 FT-LBS 1/4-20 TORQUE REQ'D 6-7 FT-LBS 5/16-18 TORQUE REQ'D 15-20 FT-LBS 3/8-16 TORQUE REQ'D 22-25 FT-LBS
		MATERIAL: --	MATERIAL DESCRIPTION:	
		QUANTITY: (1) REQ'D	WEIGHT: 5.87 lbs.	
DO NOT SCALE DRAWING				

ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT US ARMY ABERDEEN TEST CENTER ABERDEEN PROVING GROUND, MD 21005-5059		
TITLE: THE TRUNK BODY ARMOR DURABILITY IMPACT DEVICE		
SIZE B	DWG. NO. BDID-400-0	REV 0
SCALE: 1:8		SHEET 2 OF 2

8 7 6 5 4 3 2 1

GENERAL NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH APPLICABLE STANDARDS LISTED IN MIL-STD-100-G AND ASME Y14.100M
2. THE FOLLOWING ARE MANDATORY UNLESS OTHERWISE SPECIFIED:
 - REMOVE BURRS
 - BREAK SHARP EDGES
 - TOLERANCES ON STOCK MATERIAL SIZES SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS
3. FILE TO BE PROVIDED FOR FLAT PATTERN CUTTING.



DISTRIBUTION STATEMENT C. Distribution authorized to U.S. Government agencies and their contractors (Operational Use, date of determination-June 1989). Other requests shall be referred to the U.S. Army Aberdeen Test Center Commander, CSTE-DTC-AT-CO Aberdeen Proving Ground, MD 21005-5059.

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**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

--	--
BDID-100-0	--
BDID-400-0	--
NEXT ASSY	NEXT ASSY

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
 GENERAL TOLERANCES:
 FRACTIONAL ± 1/32
 ANGULAR: MACH ± 1° BEND ± 3°
 X ± 0.063 X.XX ± 0.010
 X.X ± 0.031 X.XXX ± 0.005

MACHINE FINISH: 125	INTERPRET GEO. TOL. PER: ASME Y14.5M-1994
MATERIAL: 6061 Alloy	MATERIAL DESCRIPTION:
QUANTITY: (1) REQ'D	WEIGHT: 2.869 lbs.

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN BY:	GDL	09/18/13
CHECKED BY:	CDH	10/08/13
ENG APPR.:	--	--/--
MFG APPR.:	--	--/--

COMMENTS:
--

ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT
 US ARMY ABERDEEN TEST CENTER
 ABERDEEN PROVING GROUND, MD 21005-5059

TITLE:
**8020-1515, 25.5" LONG
 BODY ARMOR
 DURABILITY IMPACT DEVICE**

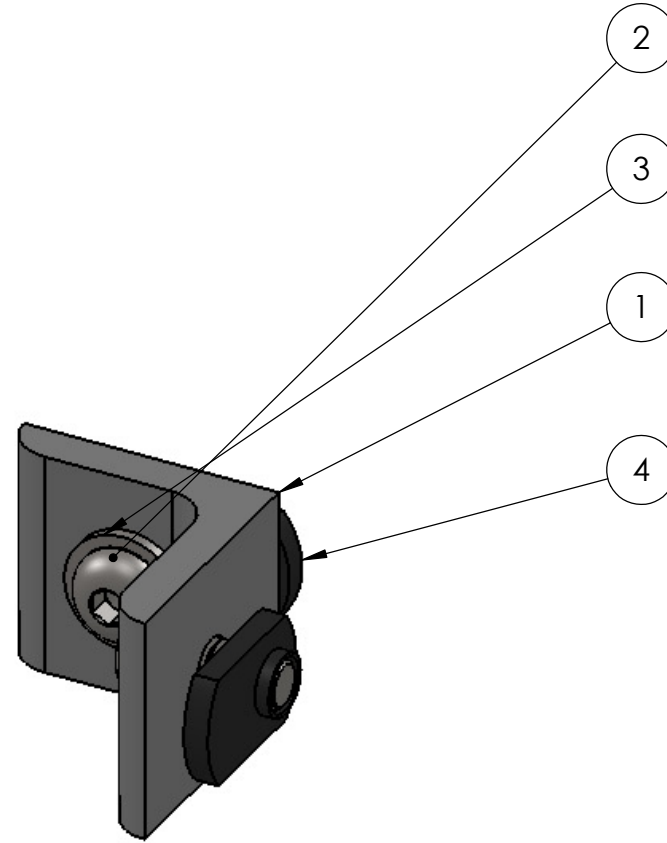
SIZE B	DWG. NO. BDID-401-0	REV 0
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SCALE: 1:8 SHEET 1 OF 1

8 7 6 5 4 3 2 1

GENERAL NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH APPLICABLE STANDARDS LISTED IN MIL-STD-100-G AND ASME Y14.100M
2. THE FOLLOWING ARE MANDATORY UNLESS OTHERWISE SPECIFIED:
 - REMOVE BURRS
 - BREAK SHARP EDGES
 - TOLERANCES ON STOCK MATERIAL SIZES SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS
3. FILE TO BE PROVIDED FOR FLAT PATTERN CUTTING.



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	8020-4302	8020-4302, 2 HOLE INSIDE ANGLE	1
2	8020-3114	8020-3114, SHCS 5/16 -18, 3/4" Long	2
3	8020-3260	8020-3260, 5/16" WASHER	2
4	8020-3278	8020-3278, SINGLE ECON NUT	2

DISTRIBUTION STATEMENT C. Distribution authorized to U.S. Government agencies and their contractors (Operational Use, date of determination-June 1989). Other requests shall be referred to the U.S. Army Aberdeen Test Center Commander, CSTE-DTC-AT-CO Aberdeen Proving Ground, MD 21005-5059.

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**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

BDID-500-0	--
BDID-100-0	--
BDID-400-0	--
NEXT ASSY	NEXT ASSY

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES GENERAL TOLERANCES: FRACTIONAL ± 1/32 ANGULAR: MACH ± 1° BEND ± 3° X ± 0.063 X.XX ± 0.010 X.X ± 0.031 X.XXX ± 0.005	
MACHINE FINISH: 125	INTERPRET GEO. TOL. PER: ASME Y14.5M-1994
MATERIAL: --	MATERIAL DESCRIPTION:
QUANTITY: (5) REQ'D	WEIGHT: 0.17 lbs.
DO NOT SCALE DRAWING	

NAME	DATE
DRAWN BY: GDL	09/18/13
CHECKED BY: CDH	10/08/13
ENG APPR.:	--/--/--
MFG APPR.:	--/--/--

ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT
US ARMY ABERDEEN TEST CENTER
ABERDEEN PROVING GROUND, MD 21005-5059

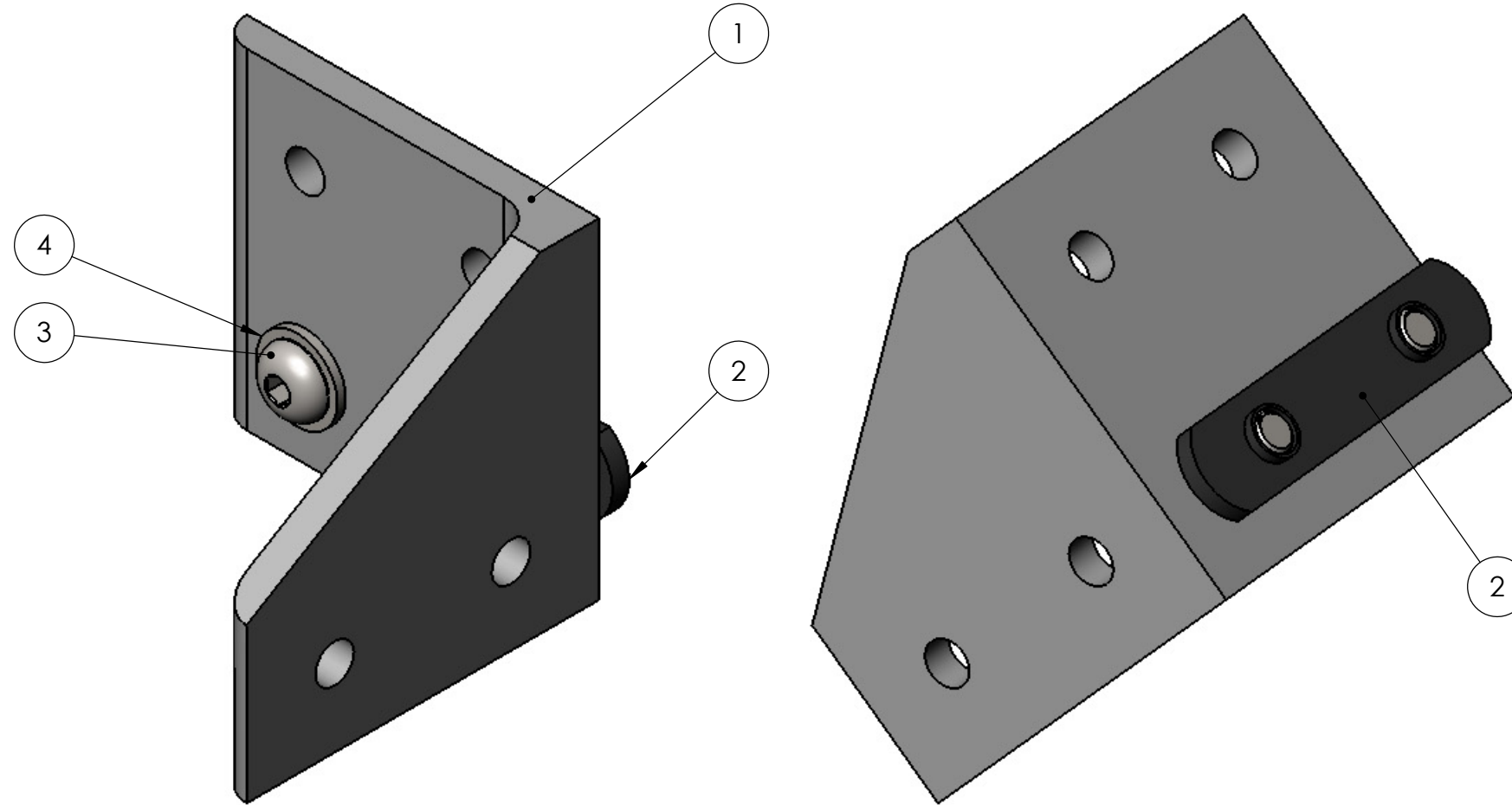
TITLE:
**8020-4302
BODY ARMOR
DURABILITY IMPACT DEVICE**

SIZE B	DWG. NO. BDID-402-0	REV 0
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SCALE: 1:1 SHEET 1 OF 1

GENERAL NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH APPLICABLE STANDARDS LISTED IN MIL-STD-100-G AND ASME Y14.100M
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 - REMOVE BURRS
 - BREAK SHARP EDGES
 - TOLERANCES ON STOCK MATERIAL SIZES SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS
3. FILE TO BE PROVIDED FOR FLAT PATTERN CUTTING.



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	8020-4308	8020-4308	1
2	8020-3279	8020-3279, ECON DBL NUT BAR	1
3	8020-3114	8020-3114, SHCS 5/16 -18, 3/4" Long	2
4	8020-3260	8020-3260, 5/16" WASHER	2

DISTRIBUTION STATEMENT C. Distribution authorized to U.S. Government agencies and their contractors (Operational Use, date of determination-June 1989). Other requests shall be referred to the U.S. Army Aberdeen Test Center Commander, CSTE-DTC-AT-CO Aberdeen Proving Ground, MD 21005-5059.

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**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

--	--
BDID-100-0	--
BDID-400-0	--
NEXT ASSY	NEXT ASSY

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES GENERAL TOLERANCES: FRACTIONAL ± 1/32 ANGULAR: MACH ± 1° BEND ± 3° X ± 0.063 X.XX ± 0.010 X.X ± 0.031 X.XXX ± 0.005	
MACHINE FINISH: 125	INTERPRET GEO. TOL. PER: ASME Y14.5M-1994
MATERIAL:	MATERIAL DESCRIPTION:
QUANTITY: (1) REQ'D	WEIGHT: 0.45 lbs.
DO NOT SCALE DRAWING	

NAME	DATE
DRAWN BY: GDL	09/18/13
CHECKED BY: CDH	10/08/13
ENG APPR.: --	--/--
MFG APPR.: --	--/--

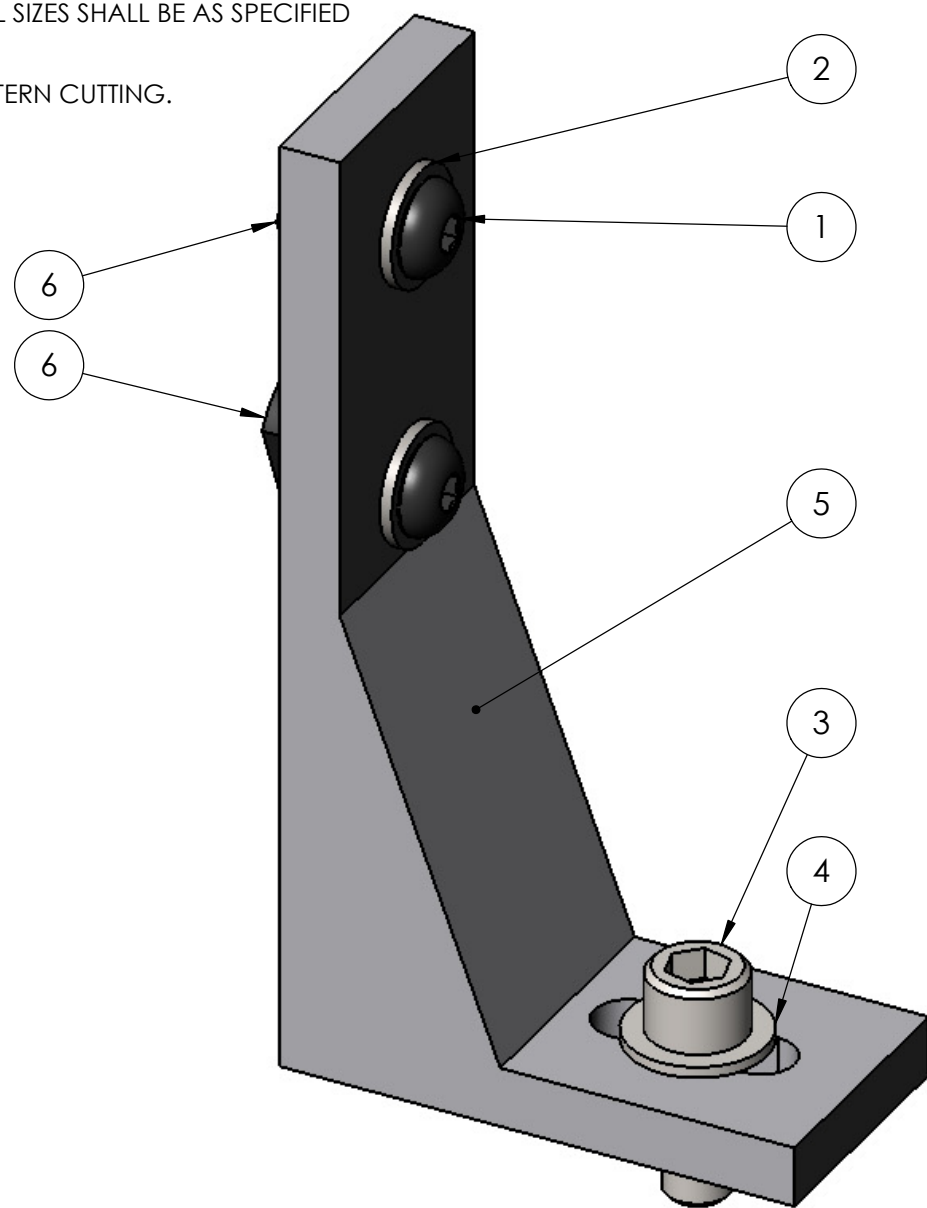
COMMENTS: --

ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT US ARMY ABERDEEN TEST CENTER ABERDEEN PROVING GROUND, MD 21005-5059		
TITLE: 8020-4308 BODY ARMOR DURABILITY IMPACT DEVICE		
SIZE B	DWG. NO. BDID-403-0	REV 0
SCALE: 1:2		SHEET 1 OF 1

GENERAL NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH APPLICABLE STANDARDS LISTED IN MIL-STD-100-G AND ASME Y14.100M
2. THE FOLLOWING ARE MANDATORY UNLESS OTHERWISE SPECIFIED:
 - REMOVE BURRS
 - BREAK SHARP EDGES
 - TOLERANCES ON STOCK MATERIAL SIZES SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS
3. FILE TO BE PROVIDED FOR FLAT PATTERN CUTTING.

THIS IS THE "ITEMS PRODUCT" THAT MAY NOT BE READILY AVAILABLE.



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	8020-3114	8020-3114, SHCS 5/16 -18, 3/4" Long	2
2	8020-3260	8020-3260, 5/16" WASHER	2
3	HX-SHCS 0.375-16x1x1-N	3/8-16X1 SOCKET HEAD CAP SCREW	1
4	Preferred Narrow FW 0.375	3/8 FLAT WASHER	1
5	ITEMS PRODUCT	FLOOR BRACKET	1
6	8020-3278	8020-3278, SINGLE ECON NUT	2

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**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

--	--
BDID-100-0	--
BDID-400-0	--
NEXT ASSY	NEXT ASSY

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES	
GENERAL TOLERANCES:	
FRACTIONAL ± 1/32	
ANGULAR: MACH ± 1° BEND ± 3°	
X ± 0.063	X.XX ± 0.010
X.X ± 0.031	X.XXX ± 0.005
MACHINE FINISH: 125	INTERPRET GEO. TOL. PER: ASME Y14.5M-1994
MATERIAL: --	MATERIAL DESCRIPTION:
QUANTITY: (4) REQ'D	WEIGHT: 0.73 lbs.
DO NOT SCALE DRAWING	

NAME	DATE
DRAWN BY: GDL	09/18/13
CHECKED BY: CDH	10/08/13
ENG APPR.: --	--/--
MFG APPR.: --	--/--

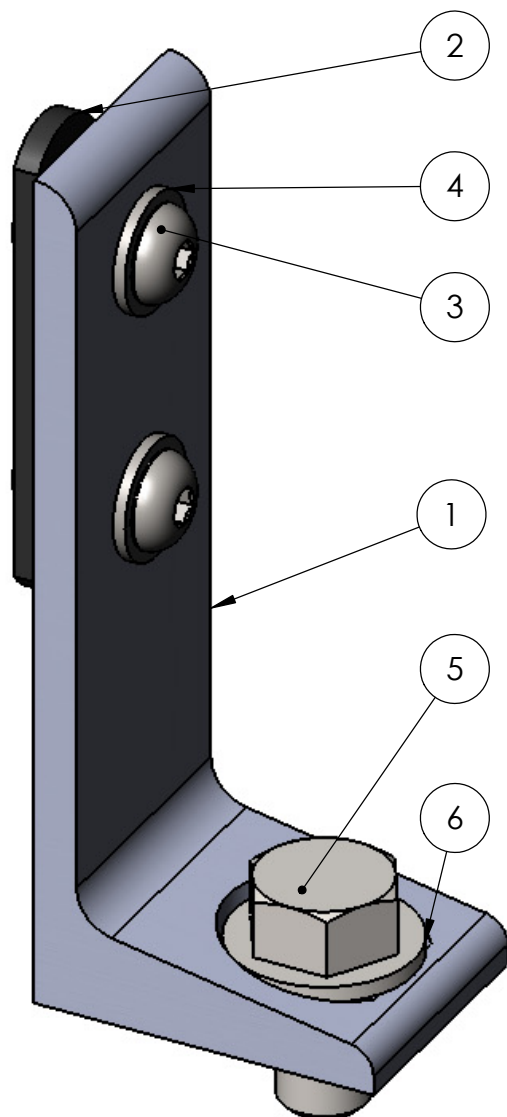
ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT
US ARMY ABERDEEN TEST CENTER
ABERDEEN PROVING GROUND, MD 21005-5059

TITLE:
**ITEMS PRODUCT FLOOR MOUNTS
BODY ARMOR
DURABILITY IMPACT DEVICE**

SIZE B	DWG. NO. BDID-404-0	REV 0
SCALE: 1:2		SHEET 1 OF 1

GENERAL NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH APPLICABLE STANDARDS LISTED IN MIL-STD-100-G AND ASME Y14.100M
2. THE FOLLOWING ARE MANDATORY UNLESS OTHERWISE SPECIFIED:
 - REMOVE BURRS
 - BREAK SHARP EDGES
 - TOLERANCES ON STOCK MATERIAL SIZES SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS
3. FILE TO BE PROVIDED FOR FLAT PATTERN CUTTING.



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	8020-2415	8020-2415	1
2	8020-3279	8020-3279, ECON DBL NUT BAR	1
3	8020-3114	8020-3114, SHCS 5/16 -18, 3/4" Long	2
4	8020-3260	8020-3260, 5/16" WASHER	2
5	HBOLT 0.5000-13x1x1-N	1/2-13x1 HHBOLT	1
6	Preferred Narrow FW 0.5	1/2 FLAT WASHER	1

DISTRIBUTION STATEMENT C. Distribution authorized to U.S. Government agencies and their contractors (Operational Use, date of determination-June 1989). Other requests shall be referred to the U.S. Army Aberdeen Test Center Commander, CSTE-DTC-AT-CO Aberdeen Proving Ground, MD 21005-5059.

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**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

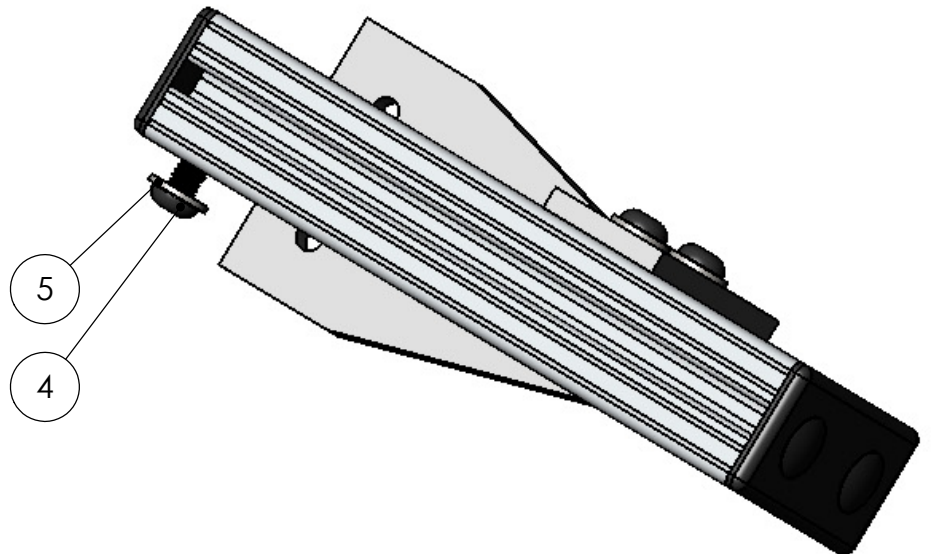
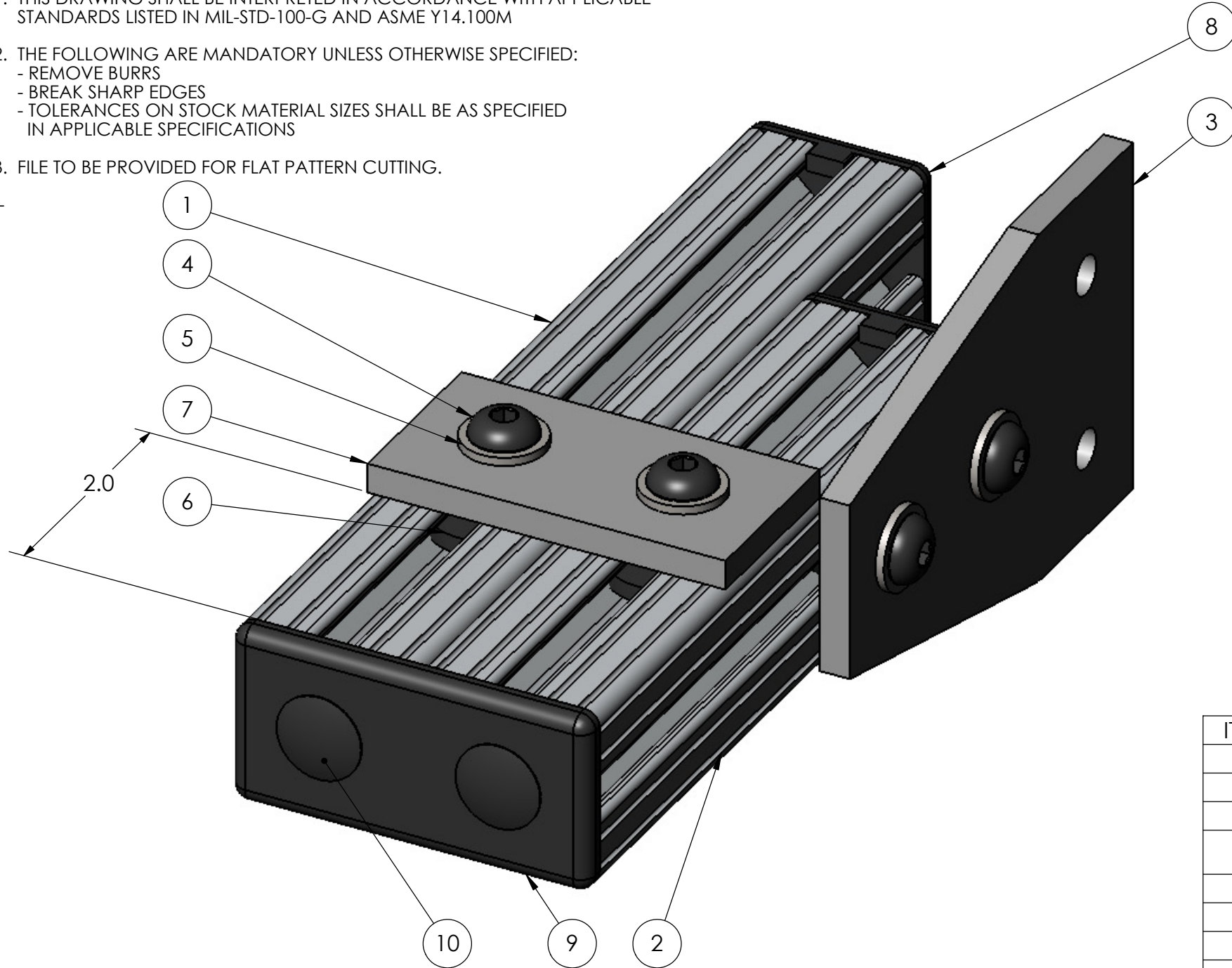
--	--	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES GENERAL TOLERANCES: FRACTIONAL ± 1/32 ANGULAR: MACH ± 1° BEND ± 3° X ± 0.063 X.XX ± 0.010 X.X ± 0.031 X.XXX ± 0.005	NAME	DATE
BDID-100-0	--		DRAWN BY: GDL	09/20/13
BDID-400-0	--		CHECKED BY: CDH	10/08/13
NEXT ASSY	NEXT ASSY		ENG APPR.: --	--/--
		MACHINE FINISH: 125	INTERPRET GEO. TOL. PER: ASME Y14.5M-1994	COMMENTS: --
		MATERIAL:	MATERIAL DESCRIPTION:	
		QUANTITY: (4) REQ'D	WEIGHT: 0.50 lbs.	
DO NOT SCALE DRAWING				

ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT US ARMY ABERDEEN TEST CENTER ABERDEEN PROVING GROUND, MD 21005-5059		
8020-2415 BODY ARMOR DURABILITY IMPACT TESTER		
SIZE B	DWG. NO. BDID-405-0	REV 0
SCALE: 1:2		SHEET 1 OF 1

GENERAL NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH APPLICABLE STANDARDS LISTED IN MIL-STD-100-G AND ASME Y14.100M
2. THE FOLLOWING ARE MANDATORY UNLESS OTHERWISE SPECIFIED:
 - REMOVE BURRS
 - BREAK SHARP EDGES
 - TOLERANCES ON STOCK MATERIAL SIZES SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS
3. FILE TO BE PROVIDED FOR FLAT PATTERN CUTTING.

D
C
B
A



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	BDID-501	8020-1515, 8" LONG	1
2	BDID-501	8020-1515, 6" LONG	1
3	8020-4341	8020-4341, 4 Hole Joining Plate	1
4	Sockethead Cap Screw	SHCS 5/16 -18, 3/4" Long	5
5	WASHER	5/16" WASHER	5
6	8020-3278 Econ Nut	8020-3278, SINGLE ECON NUT	5
7	8020-4307	2 HOLE JOINING PLATE	1
8	8020-2030	8020-2030, DECORATIVE END CAP	2
9	8020-2045		1
10	Default	8020 PUSH PIN	4

DISTRIBUTION STATEMENT C. Distribution authorized to U.S. Government agencies and their contractors (Operational Use, date of determination-June 1989). Other requests shall be referred to the U.S. Army Aberdeen Test Center Commander, CSTE-DTC-AT-CO Aberdeen Proving Ground, MD 21005-5059.

Export Control Warning. "WARNING - This document contains technical data whose export is restricted by the Arms Export Control Act (Title 22, U.S.C., Sec 2751, et seq.) or the Export Administration Act of 1979 (Title 50, U.S.C., App. 2401 et seq), as amended. Violations of these export laws are subject to severe criminal penalties. Disseminate in accordance with provisions of DoD Directive 5230.25."

Handling and Destroying Unclassified/Limited Distribution Documents. Unclassified/Limited Distribution documents shall be handled using the same standard as "For Official Use Only (FOUO)" material, and will be destroyed by any method that will prevent disclosure of contents or reconstruction of the document. When local circumstances or experience indicates that this destruction method is not sufficiently protective of unclassified limited information, local authorities may prescribe other methods but must give due consideration to the additional expense balanced against the degree of sensitivity.

**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

--	--
--	--
BDID-100-0	--
NEXT ASSY	NEXT ASSY

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES GENERAL TOLERANCES: FRACTIONAL ± 1/32 ANGULAR: MACH ± 1° BEND ± 3° X ± 0.063 X.XX ± 0.010 X.X ± 0.031 X.XXX ± 0.005	
MACHINE FINISH: 125	INTERPRET GEO. TOL. PER: ASME Y14.5M-1994
MATERIAL: --	MATERIAL DESCRIPTION:
QUANTITY: (1) REQ'D	WEIGHT: 2.24 lbs.
DO NOT SCALE DRAWING	

NAME	DATE
GDL	09/13/13
CHECKED BY:	CDH
10/08/13	
ENG APPR.:	--
--/--	
MFG APPR.:	--
--/--	

COMMENTS:
HARDWARE:
10-24 TORQUE REQ'D 2-3 FT-LBS
1/4-20 TORQUE REQ'D 6-7 FT-LBS
5/16-18 TORQUE REQ'D 15-20 FT-LBS
3/8-16 TORQUE REQ'D 22-25 FT-LBS

ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT
US ARMY ABERDEEN TEST CENTER
ABERDEEN PROVING GROUND, MD 21005-5059

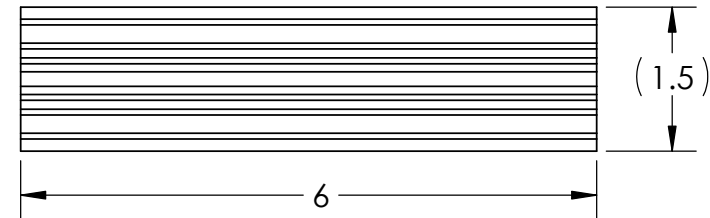
TITLE:
**SLIDE LOCK
BODY ARMOR
DURABILITY IMPACT DEVICE**

SIZE **B** DWG. NO. **BDID-500-0** REV **0**

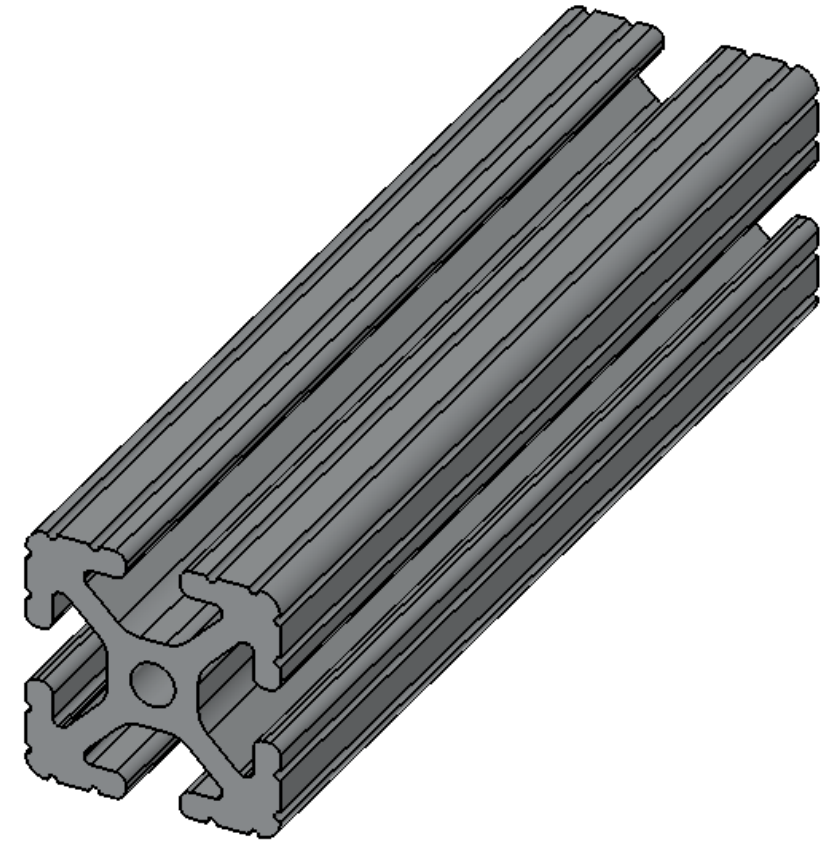
SCALE: 1:2 SHEET 1 OF 1

GENERAL NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH APPLICABLE STANDARDS LISTED IN MIL-STD-100-G AND ASME Y14.100M
2. THE FOLLOWING ARE MANDATORY UNLESS OTHERWISE SPECIFIED:
 - REMOVE BURRS
 - BREAK SHARP EDGES
 - TOLERANCES ON STOCK MATERIAL SIZES SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS
3. FILE TO BE PROVIDED FOR FLAT PATTERN CUTTING.



ONE OF EACH



DISTRIBUTION STATEMENT C. Distribution authorized to U.S. Government agencies and their contractors (Operational Use, date of determination-June 1989). Other requests shall be referred to the U.S. Army Aberdeen Test Center Commander, CSTE-DTC-AT-CO Aberdeen Proving Ground, MD 21005-5059.

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**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

--	--	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES GENERAL TOLERANCES: FRACTIONAL $\pm 1/32$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 3^\circ$ X ± 0.063 X.XX ± 0.010 X.X ± 0.031 X.XXX ± 0.005	DRAWN BY:	GDL	09/16/13
BDID-100-0	--		CHECKED BY:	CDH	10/08/13
BDID-500-0	--		ENG APPR.:	--	--/--
NEXT ASSY	NEXT ASSY		MFG APPR.:	--	--/--
		MACHINE FINISH: 125	INTERPRET GEO. TOL. PER: ASME Y14.5M-1994		COMMENTS: --
		MATERIAL: 6061 Alloy	MATERIAL DESCRIPTION:		
		QUANTITY: (1) REQ'D	WEIGHT: 1.346 lbs.		
		DO NOT SCALE DRAWING			

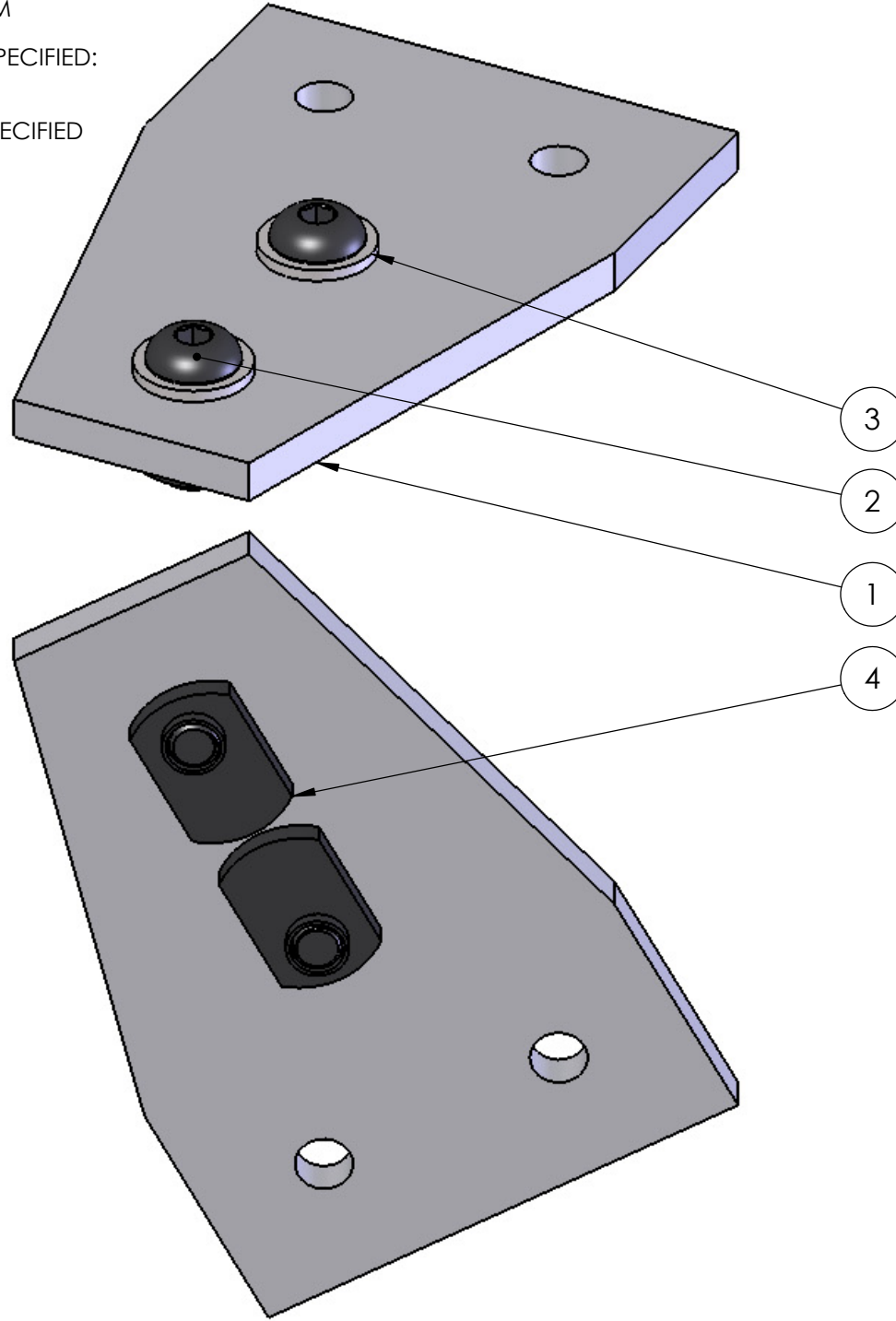
ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT
US ARMY ABERDEEN TEST CENTER
ABERDEEN PROVING GROUND, MD 21005-5059

TITLE:
**8020-1515, 6" LONG
BODY ARMOR
DURABILITY IMPACT DEVICE**

SIZE B	DWG. NO. BDID-501-0	REV 0
SCALE: 1:4		SHEET 1 OF 1

GENERAL NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH APPLICABLE STANDARDS LISTED IN MIL-STD-100-G AND ASME Y14.100M
2. THE FOLLOWING ARE MANDATORY UNLESS OTHERWISE SPECIFIED:
 - REMOVE BURRS
 - BREAK SHARP EDGES
 - TOLERANCES ON STOCK MATERIAL SIZES SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS
3. FILE TO BE PROVIDED FOR FLAT PATTERN CUTTING.



USE TWO SINGLE NUTS; A DOUBLE NUT BAR PROTRUDES OUTWARD AND WILL INTERFERE WITH THE PENDULUM WHEN BEING RESTRAINED VERTICALLY.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	8020-4341	8020-4341, 4 Hole Joining Plate	1
2	Sockethead Cap Screw	SHCS 5/16 -18, 3/4" Long	2
3	WASHER	5/16" WASHER	2
4	8020-3278 Econ Nut	8020-3278, SINGLE ECON NUT	2

DISTRIBUTION STATEMENT C. Distribution authorized to U.S. Government agencies and their contractors (Operational Use, date of determination-June 1989). Other requests shall be referred to the U.S. Army Aberdeen Test Center Commander, CSTE-DTC-AT-CO Aberdeen Proving Ground, MD 21005-5059.

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**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

--	--
BDID-100-0	--
BDID-500-0	--
NEXT ASSY	NEXT ASSY

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES GENERAL TOLERANCES: FRACTIONAL $\pm 1/32$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 3^\circ$ X ± 0.063 X.XX ± 0.010 X.X ± 0.031 X.XXX ± 0.005		DRAWN BY: GDL 09/16/13	NAME	DATE
MACHINE FINISH: 125	INTERPRET GEO. TOL. PER: ASME Y14.5M-1994	CHECKED BY: CDH 10/08/13		
MATERIAL:	MATERIAL DESCRIPTION:	ENG APPR.: -- --/--		
QUANTITY: (1) REQ'D	WEIGHT: 0.359 lbs.	MFG APPR.: -- --/--		
DO NOT SCALE DRAWING		COMMENTS: --		

ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT
US ARMY ABERDEEN TEST CENTER
ABERDEEN PROVING GROUND, MD 21005-5059

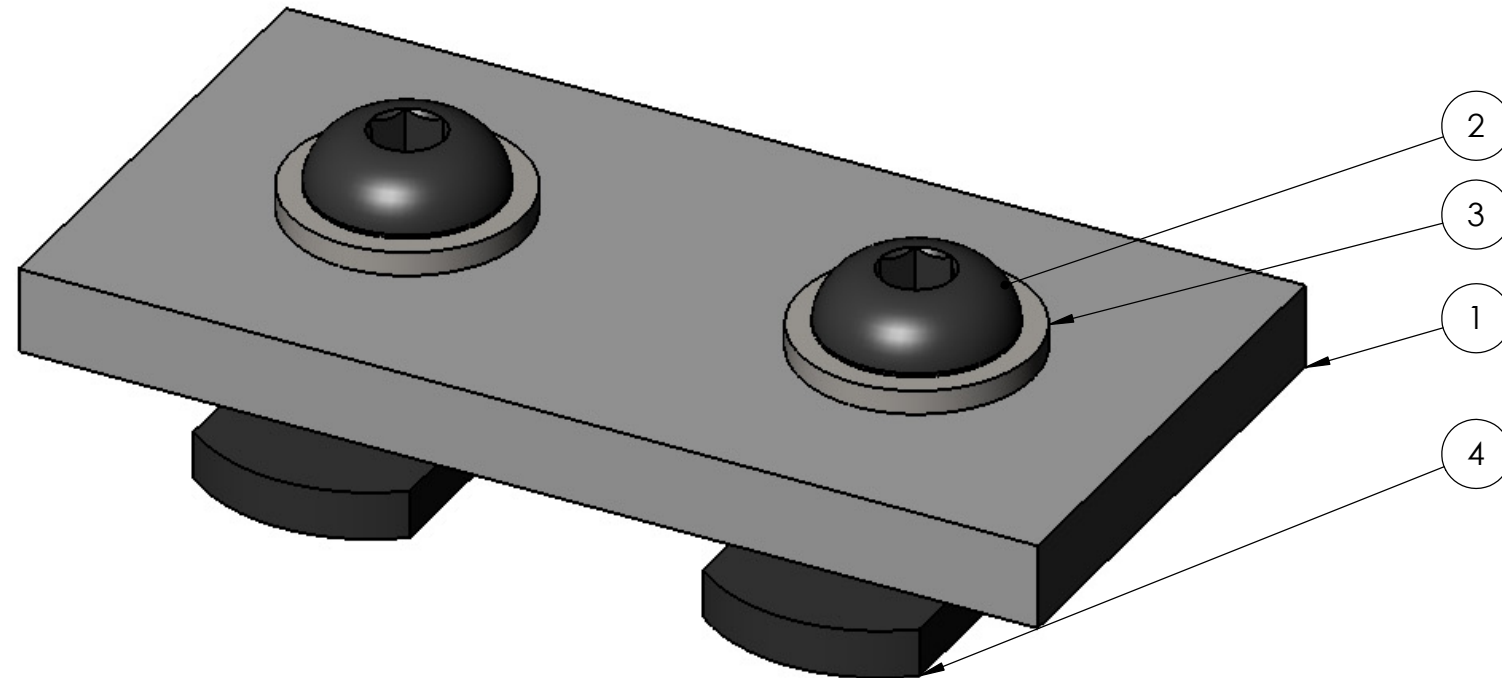
TITLE:
**4 Hole Joining Plate
BODY ARMOR
DURABILITY IMPACT DEVICE**

SIZE B	DWG. NO. BDID-502-0	REV 0
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SCALE: 1:1 SHEET 1 OF 1

GENERAL NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH APPLICABLE STANDARDS LISTED IN MIL-STD-100-G AND ASME Y14.100M
2. THE FOLLOWING ARE MANDATORY UNLESS OTHERWISE SPECIFIED:
 - REMOVE BURRS
 - BREAK SHARP EDGES
 - TOLERANCES ON STOCK MATERIAL SIZES SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS
3. FILE TO BE PROVIDED FOR FLAT PATTERN CUTTING.



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	8020-4307	2 HOLE JOINING PLATE	1
2	Sockethead Cap Screw	SHCS 5/16 -18, 3/4" Long	2
3	WASHER	5/16" WASHER	2
4	8020-3278 Econ Nut	8020-3278, SINGLE ECON NUT	2

DISTRIBUTION STATEMENT C. Distribution authorized to U.S. Government agencies and their contractors (Operational Use, date of determination-June 1989). Other requests shall be referred to the U.S. Army Aberdeen Test Center Commander, CSTE-DTC-AT-CO Aberdeen Proving Ground, MD 21005-5059.

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**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

--	--
BDID-100-0	--
BDID-500-0	--
NEXT ASSY	NEXT ASSY

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
 GENERAL TOLERANCES:
 FRACTIONAL ± 1/32
 ANGULAR: MACH ± 1° BEND ± 3°
 X ± 0.063 X.XX ± 0.010
 X.X ± 0.031 X.XXX ± 0.005

MACHINE FINISH: 125	INTERPRET GEO. TOL. PER: ASME Y14.5M-1994
MATERIAL: --	MATERIAL DESCRIPTION:
QUANTITY: (1) REQ'D	WEIGHT: 0.20 lbs.

DO NOT SCALE DRAWING

NAME	DATE
GDL	09/16/13
CHECKED BY:	CDH
10/08/13	
ENG APPR.:	--
--/--	
MFG APPR.:	--
--/--	
COMMENTS:	--

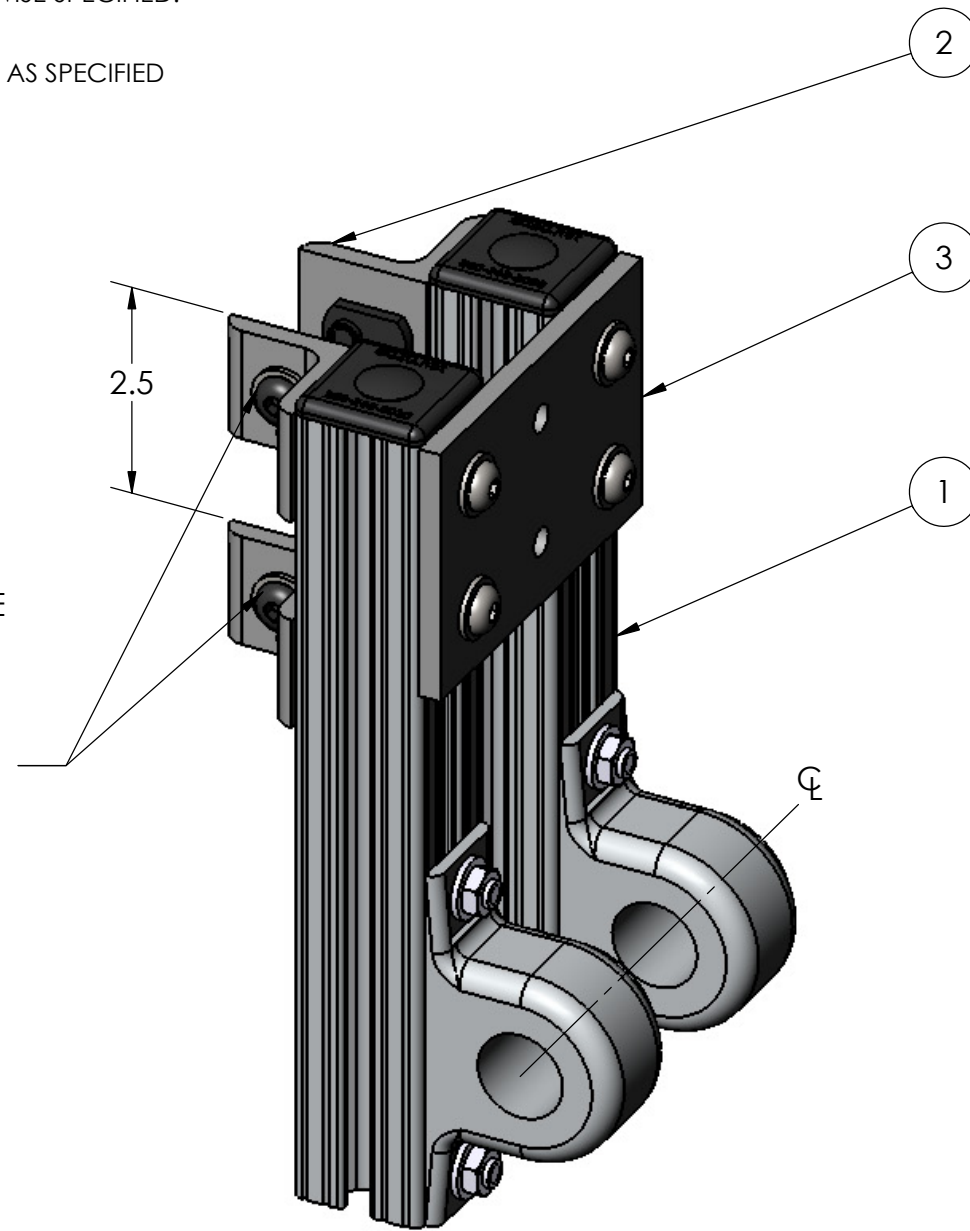
ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT US ARMY ABERDEEN TEST CENTER ABERDEEN PROVING GROUND, MD 21005-5059		
TITLE: 8020-4307 BODY ARMOR DURABILITY IMPACT DEVICE		
SIZE B	DWG. NO. BDID-503-0	REV 0
SCALE: 2:1		SHEET 1 OF 1

GENERAL NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH APPLICABLE STANDARDS LISTED IN MIL-STD-100-G AND ASME Y14.100M
2. THE FOLLOWING ARE MANDATORY UNLESS OTHERWISE SPECIFIED:
 - REMOVE BURRS
 - BREAK SHARP EDGES
 - TOLERANCES ON STOCK MATERIAL SIZES SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS
3. FILE TO BE PROVIDED FOR FLAT PATTERN CUTTING.

ASSEMBLY NOTES:

1. MANY OF THE COMPONENTS OF THIS ASSEMBLY ARE FLUSH WITH ANOTHER PART.
2. ENSURE THAT THE TWO BEARING BLOCKS ARE IN LINE & LEVEL (CONCENTRIC).



THE 4 SCREWS THAT TIGHTEN ONTO THE TRUNK SHOULD BE WELL LUBRICATED. THESE SCREWS WILL BE UTILIZED WHILE ADJUSTING THE PENDULUM FOR LEVEL AT THE BEGINNING OF EACH TEST.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	BDID-601	BEARING~SHAFT SUPPORT	2
2	4302 Angle	8020-4302 ANGLE CLIP	4
3	8020-4366	8020-4366	1

DISTRIBUTION STATEMENT C. Distribution authorized to U.S. Government agencies and their contractors (Operational Use, date of determination-June 1989). Other requests shall be referred to the U.S. Army Aberdeen Test Center Commander, CSTE-DTC-AT-CO Aberdeen Proving Ground, MD 21005-5059.

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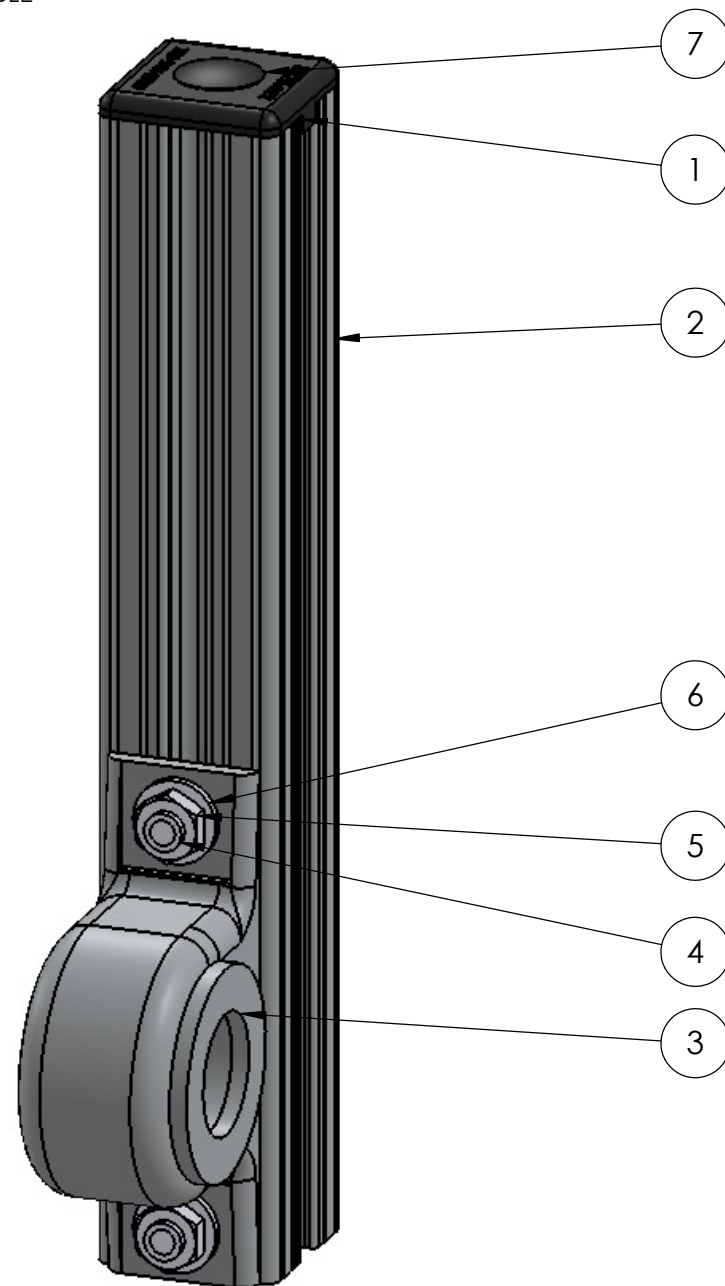
**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

--	--	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES GENERAL TOLERANCES: FRACTIONAL ± 1/32 ANGULAR: MACH ± 1° BEND ± 3° X ± 0.063 X.XX ± 0.010 X.X ± 0.031 X.XXX ± 0.005	NAME	DATE
--	--		DRAWN BY: GDL	09/13/13
BDID-100-0	--		CHECKED BY: CDH	10/08/13
NEXT ASSY	NEXT ASSY		ENG APPR.: --	--/--
		MACHINE FINISH: 125	INTERPRET GEO. TOL. PER: ASME Y14.5M-1994	COMMENTS: HARDWARE: 10-24 TORQUE REQ'D 2-3 FT-LBS 1/4-20 TORQUE REQ'D 6-7 FT-LBS 5/16-18 TORQUE REQ'D 15-20 FT-LBS 3/8-16 TORQUE REQ'D 22-25 FT-LBS
		MATERIAL:	MATERIAL DESCRIPTION:	
		QUANTITY: (1) REQ'D	WEIGHT: 4.40 lbs.	
DO NOT SCALE DRAWING				

ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT US ARMY ABERDEEN TEST CENTER ABERDEEN PROVING GROUND, MD 21005-5059		
SHAFT SUPPORT BODY ARMOR DURABILITY IMPACT DEVICE		
SIZE B	DWG. NO. BDID-600-0	REV 0
SCALE: 1:4		SHEET 1 OF 1

GENERAL NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH APPLICABLE STANDARDS LISTED IN MIL-STD-100-G AND ASME Y14.100M
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 - REMOVE BURRS
 - BREAK SHARP EDGES
 - TOLERANCES ON STOCK MATERIAL SIZES SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS
3. FILE TO BE PROVIDED FOR FLAT PATTERN CUTTING.



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	8020-2030	8020-2030, DECORATIVE END CAP	1
2	BDID-602	8020-1515, 9.5" Long	1
3	SBPP205-16-KP8G5	FYH BEARINGS USA; SBPP205-16-KP8G5	1
4	Round Head Square Neck Bolt - Inch 5_16-18 UNC - 4		2
5	Hex Jam Nut - Inch 5_16 - 21		2
6	Circular Washer (Inch) 5_33		2
7	Default	8020 PUSH PIN	1

DISTRIBUTION STATEMENT C. Distribution authorized to U.S. Government agencies and their contractors (Operational Use, date of determination-June 1989). Other requests shall be referred to the U.S. Army Aberdeen Test Center Commander, CSTE-DTC-AT-CO Aberdeen Proving Ground, MD 21005-5059.

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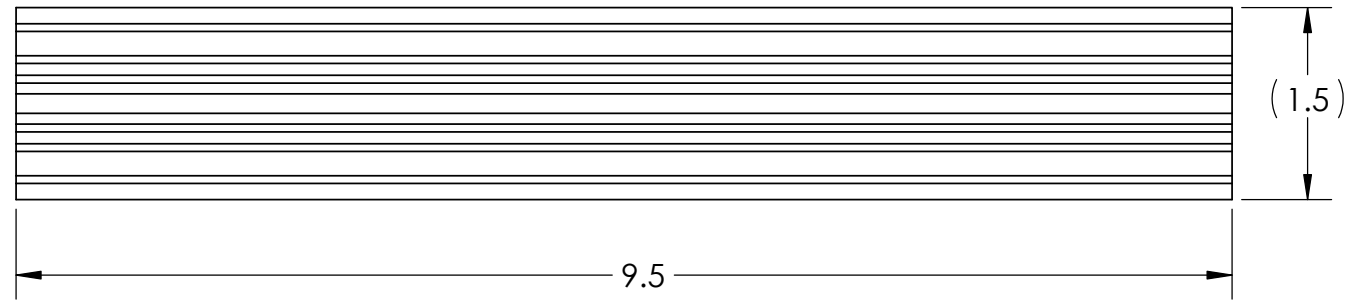
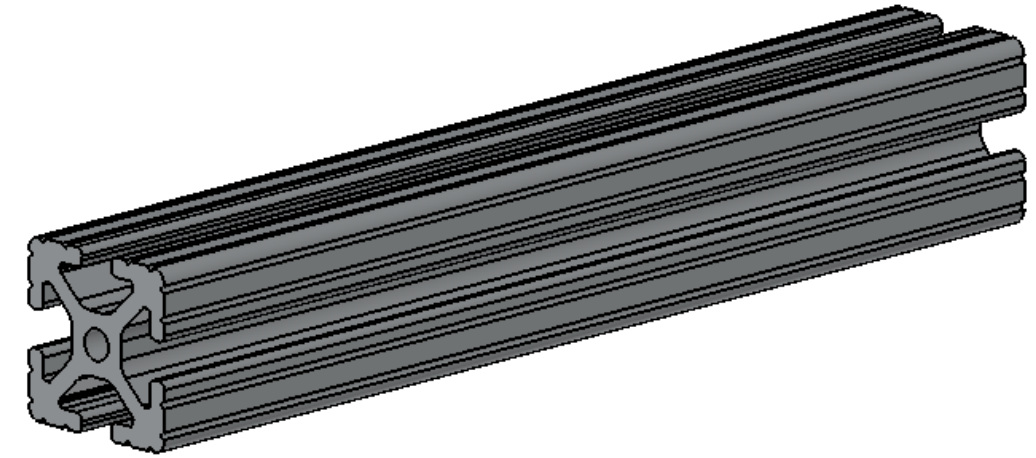
**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

--	--	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES GENERAL TOLERANCES: FRACTIONAL ± 1/32 ANGULAR: MACH ± 1° BEND ± 3° X ± 0.063 X.XX ± 0.010 X.X ± 0.031 X.XXX ± 0.005	NAME	DATE
BDID-100-0	--		DRAWN BY: GDL	09/13/13
BDID-600-0	--		CHECKED BY: CDH	10/08/13
NEXT ASSY	NEXT ASSY		ENG APPR.: --	--/--
		MACHINE FINISH: 125	INTERPRET GEO. TOL. PER: ASME Y14.5M-1994	COMMENTS: --
		MATERIAL:	MATERIAL DESCRIPTION:	
		QUANTITY: (2) REQ'D	WEIGHT: 1.58 lbs.	
DO NOT SCALE DRAWING				

ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT US ARMY ABERDEEN TEST CENTER ABERDEEN PROVING GROUND, MD 21005-5059		
TITLE: BEARING~SHAFT SUPPORT BODY ARMOR DURABILITY IMPACT DEVICE		
SIZE B	DWG. NO. BDID-601-0	REV 0
SCALE: 1:4		SHEET 1 OF 1

GENERAL NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH APPLICABLE STANDARDS LISTED IN MIL-STD-100-G AND ASME Y14.100M
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 - REMOVE BURRS
 - BREAK SHARP EDGES
 - TOLERANCES ON STOCK MATERIAL SIZES SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS
3. FILE TO BE PROVIDED FOR FLAT PATTERN CUTTING.



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**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

BDID-100-0	--
BDID-601-0	--
BDID-600-0	--
NEXT ASSY	NEXT ASSY

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
 GENERAL TOLERANCES:
 FRACTIONAL ± 1/32
 ANGULAR: MACH ± 1° BEND ± 3°
 X ± 0.063 X.XX ± 0.010
 X.X ± 0.031 X.XXX ± 0.005

MACHINE FINISH: 125	INTERPRET GEO. TOL. PER: ASME Y14.5M-1994
MATERIAL: 6061 Alloy	MATERIAL DESCRIPTION:
QUANTITY: (2) REQ'D	WEIGHT: 1.346 lbs.

DO NOT SCALE DRAWING

DRAWN BY:	GDL	DATE	09/16/13
CHECKED BY:	CDH	DATE	10/08/13
ENG APPR.:	--	DATE	--/--
MFG APPR.:	--	DATE	--/--

COMMENTS:
--

ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT
 US ARMY ABERDEEN TEST CENTER
 ABERDEEN PROVING GROUND, MD 21005-5059

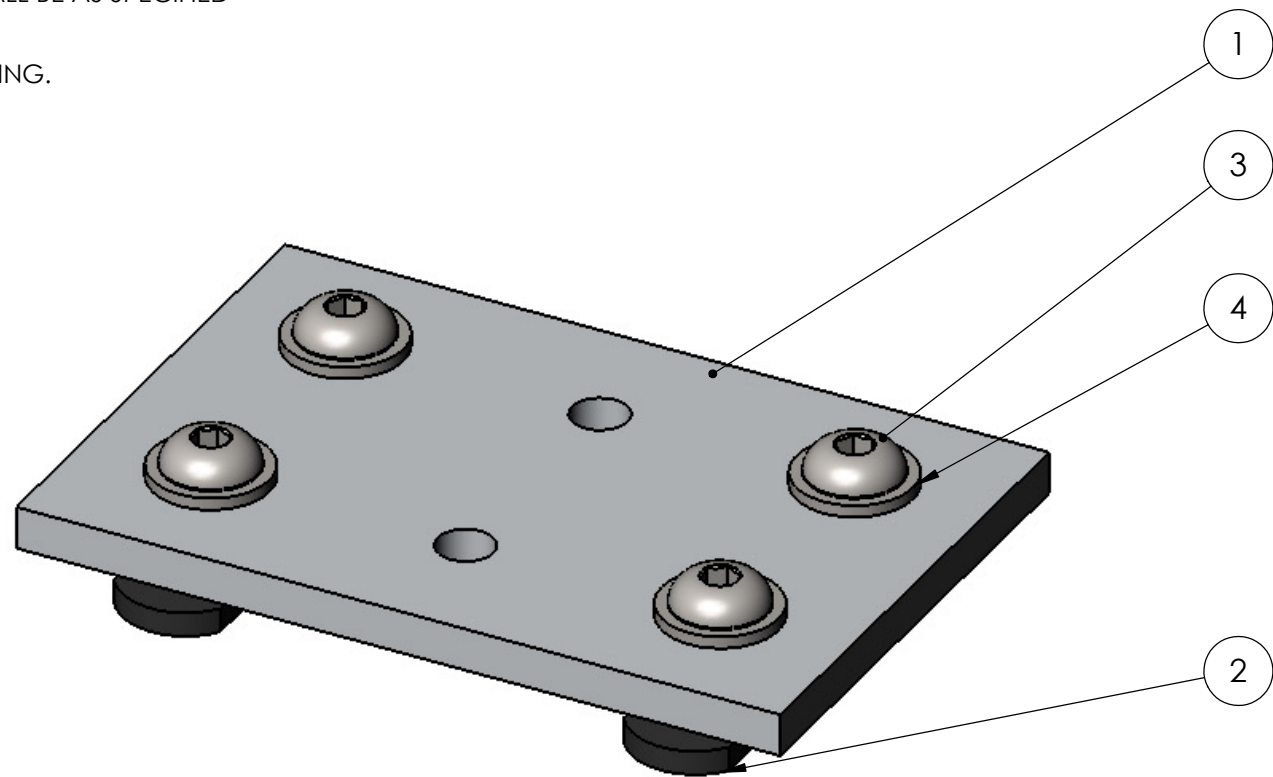
TITLE:
**8020-1515, 9.5" Long
 BODY ARMOR
 DURABILITY IMPACT DEVICE**

SIZE B	DWG. NO. BDID-602-0	REV 0
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SCALE: 1:4 SHEET 1 OF 1

GENERAL NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH APPLICABLE STANDARDS LISTED IN MIL-STD-100-G AND ASME Y14.100M
2. THE FOLLOWING ARE MANDATORY UNLESS OTHERWISE SPECIFIED:
 - REMOVE BURRS
 - BREAK SHARP EDGES
 - TOLERANCES ON STOCK MATERIAL SIZES SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS
3. FILE TO BE PROVIDED FOR FLAT PATTERN CUTTING.



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	8020-3279	8020-3279, ECON DBL NUT BAR	1
2	8020-3114	8020-3114, SHCS 5/16 -18, 3/4" Long	2
3	8020-3260	8020-3260, 5/16" WASHER	2
4	8020-4336	8020-4336, 4 HOLE INSIDE GUSSET CORNER BRACKET	1

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**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

--	--
BDID-100-0	--
BDID-600-0	--
NEXT ASSY	NEXT ASSY

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES GENERAL TOLERANCES: FRACTIONAL $\pm 1/32$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 3^\circ$ X ± 0.063 X.XX ± 0.010 X.X ± 0.031 X.XXX ± 0.005	
MACHINE FINISH: 125	INTERPRET GEO. TOL. PER: ASME Y14.5M-1994
MATERIAL:	MATERIAL DESCRIPTION:
QUANTITY: (1) REQ'D	WEIGHT: 0.55 lbs.
DO NOT SCALE DRAWING	

NAME	DATE
GDL	09/16/13
CHECKED BY:	CDH
10/08/13	
ENG APPR.:	--
--/--	
MFG APPR.:	--
--/--	

ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT
US ARMY ABERDEEN TEST CENTER
ABERDEEN PROVING GROUND, MD 21005-5059

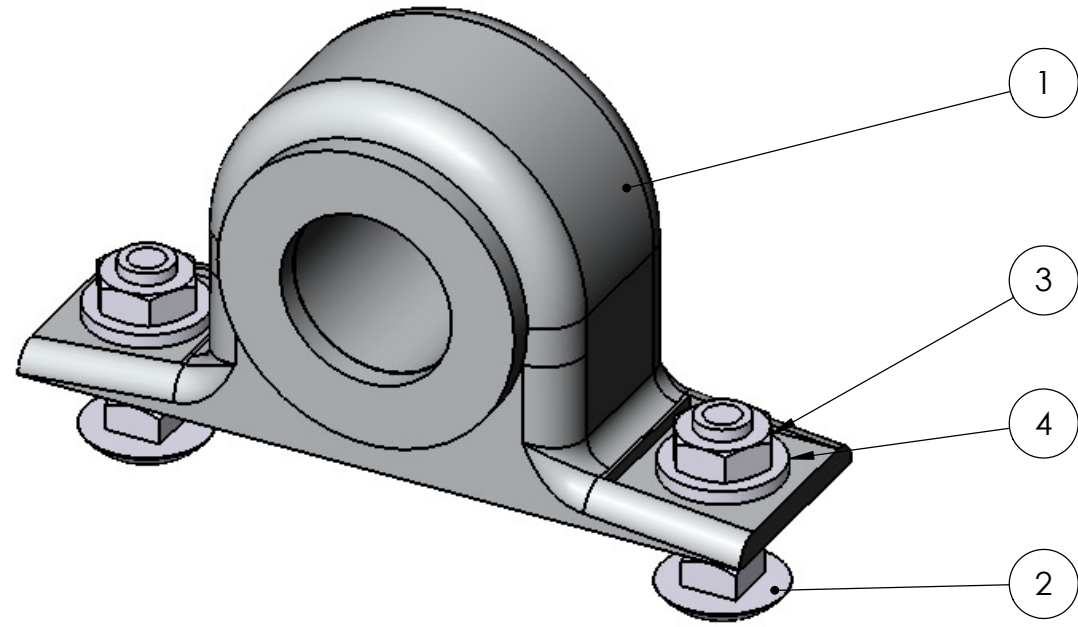
TITLE:
**8020-4366, 2 DBL ECON NUTS
BODY ARMOR
DURABILITY IMPACT DEVICE**

SIZE B	DWG. NO. BDID-603-0	REV 0
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SCALE: 1:1 SHEET 1 OF 1

GENERAL NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH APPLICABLE STANDARDS LISTED IN MIL-STD-100-G AND ASME Y14.100M
2. THE FOLLOWING ARE MANDATORY UNLESS OTHERWISE SPECIFIED:
 - REMOVE BURRS
 - BREAK SHARP EDGES
 - TOLERANCES ON STOCK MATERIAL SIZES SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS
3. FILE TO BE PROVIDED FOR FLAT PATTERN CUTTING.



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	SBPP205-16-KP8G5	FYH BEARINGS USA; SBPP205-16-KP8G5	1
2	Round Head Square Neck Bolt - Inch 5_16-18 UNC - 4		2
3	Hex Jam Nut - Inch 5_16 - 21		2
4	Circular Washer (Inch) 5_33		2

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**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

--	--	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES GENERAL TOLERANCES: FRACTIONAL ± 1/32 ANGULAR: MACH ± 1° BEND ± 3° X ± 0.063 X.XX ± 0.010 X.X ± 0.031 X.XXX ± 0.005		NAME	DATE
BDID-100-0	--		DRAWN BY:	GDL	09/16/13
BDID-600-0	--		CHECKED BY:	CDH	10/08/13
NEXT ASSY	NEXT ASSY		ENG APPR.:	--	--/--
		MACHINE FINISH: 125	INTERPRET GEO. TOL. PER: ASME Y14.5M-1994	COMMENTS: --	
		MATERIAL: --	MATERIAL DESCRIPTION:		
		QUANTITY: (2) REQ'D	WEIGHT: 0.49 lbs.		
DO NOT SCALE DRAWING					

ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT US ARMY ABERDEEN TEST CENTER ABERDEEN PROVING GROUND, MD 21005-5059		
TITLE: BEARING PILLOW BLOCK BODY ARMOR DURABILITY IMPACT DEVICE		
SIZE B	DWG. NO. BDID-604-0	REV 0
SCALE: 1:1		SHEET 1 OF 1

GENERAL NOTES:

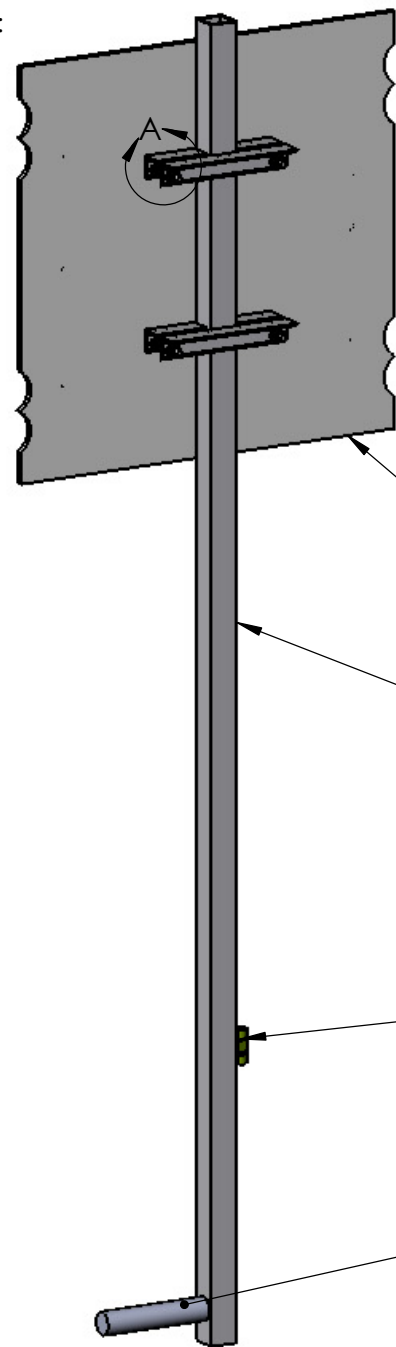
1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH APPLICABLE STANDARDS LISTED IN MIL-STD-100-G AND ASME Y14.100M
2. THE FOLLOWING ARE MANDATORY UNLESS OTHERWISE SPECIFIED:
 - REMOVE BURRS
 - BREAK SHARP EDGES
 - TOLERANCES ON STOCK MATERIAL SIZES SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS
3. FILE TO BE PROVIDED FOR FLAT PATTERN CUTTING.

1. PARTS 8 & 10 SECURED TO EACH ALL THREAD ON FAR SIDE OF FACE PLATE

2. DO NOT OVER TIGHTEN THE HARDWARE. THE ANGLES (PART 7) WILL DEFORM AND THE HARDWARE ON THE FACE OF THE FACEPLATE MAY PULL INTO THE PLASTIC.



DETAIL A
SCALE 1 : 1



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	BDID-706	PENDULUM	1
2	BDID-704	1" DIA PIVOT SHAFT	1
3	BDID-705	STIFFINER	1
4	BUBBLE LEVEL	MCMASTER CARR; 2209A72	1
5	BDID-701	CLAY MOUNTING FACE	1
6	BDID-702	1x1 ANGLE	2
7	BDID-702	1x1 ANGLE	2
8	Preferred Narrow FW 0.25	1/4" FLAT WASHER	12
9	HX-SHCS 0.19-24x0.5x0.5-N	10-24x1/2 SHCS	2
10	1/4-20 HEX NUT	1/4-20 HEX NUT	12
11	1420 ALLTHREAD	1/4-20x2.625" LONG ALL THREAD	4

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**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

--	--
BDID-100-0	--
NEXT ASSY	NEXT ASSY

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
GENERAL TOLERANCES:
FRACTIONAL ± 1/32
ANGULAR: MACH ± 1° BEND ± 3°
X ± 0.063 X.XX ± 0.010
X.X ± 0.031 X.XXX ± 0.005

MACHINE FINISH: 125	INTERPRET GEO. TOL. PER: ASME Y14.5M-1994
MATERIAL: --	MATERIAL DESCRIPTION: --
QUANTITY: (1) REQ'D	WEIGHT: 7.40 lbs.

DO NOT SCALE DRAWING

NAME	DATE
GDL	09/16/13
CHECKED BY:	CDH
10/08/13	
ENG APPR.:	--
--/--	
MFG APPR.:	--
--/--	

COMMENTS:
HARDWARE:
10-24 TORQUE REQ'D 2-3 FT-LBS
1/4-20 TORQUE REQ'D 6-7 FT-LBS
5/16-18 TORQUE REQ'D 15-20 FT-LBS
3/8-16 TORQUE REQ'D 22-25 FT-LBS

ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT
US ARMY ABERDEEN TEST CENTER
ABERDEEN PROVING GROUND, MD 21005-5059

TITLE:
**SWING PENDULUM
BODY ARMOR
DURABILITY IMPACT DEVICE**

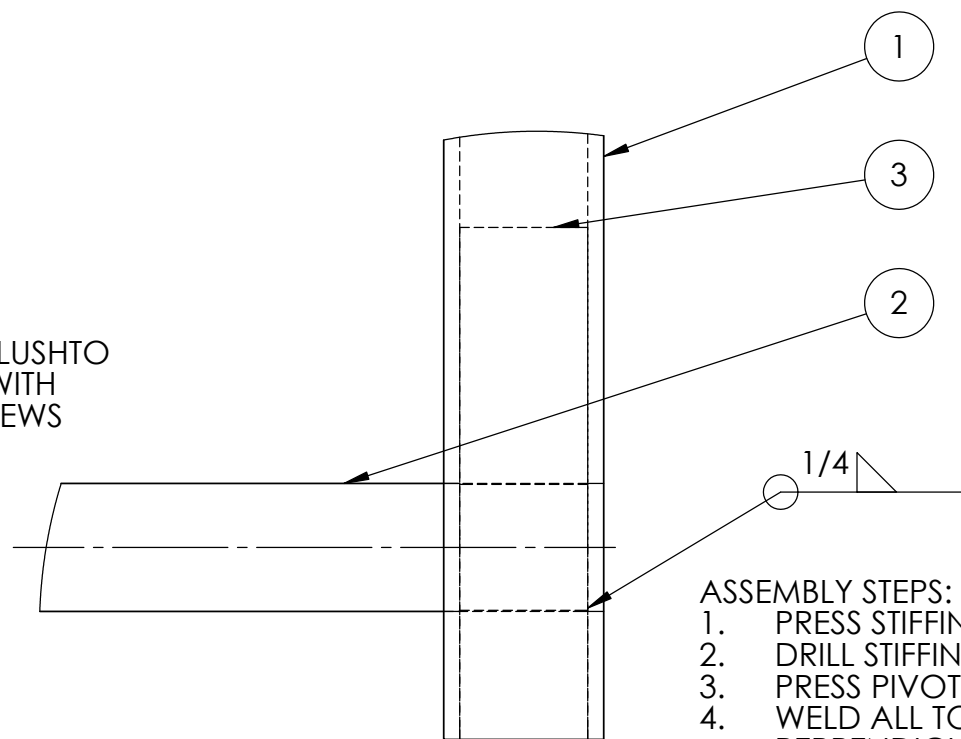
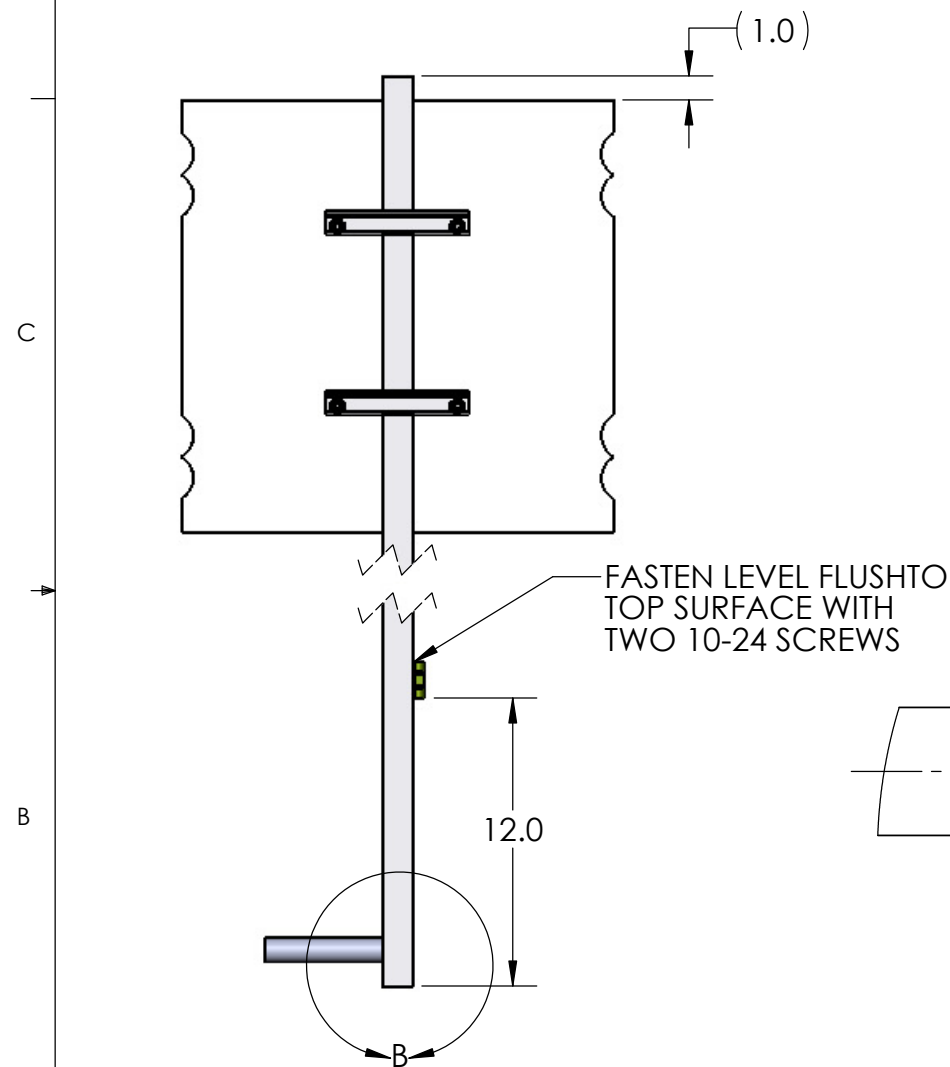
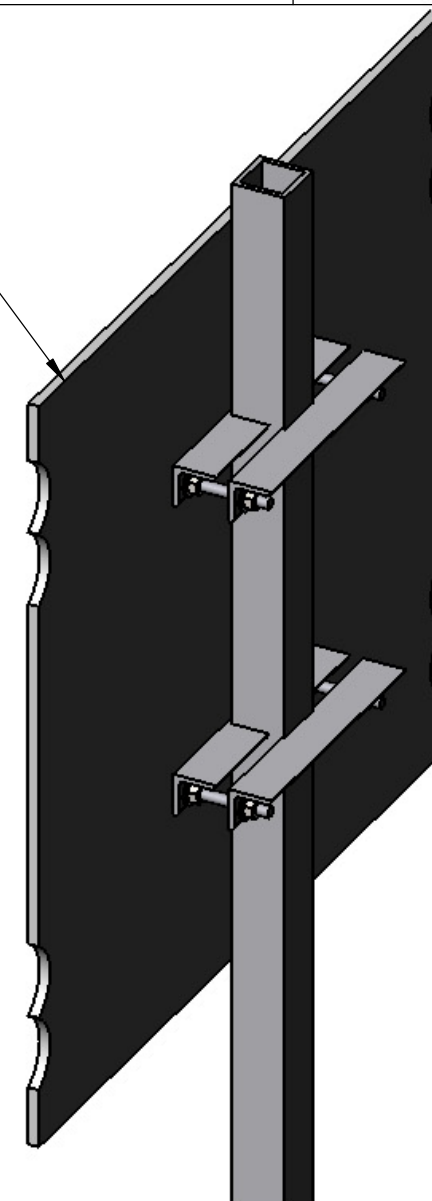
SIZE B	DWG. NO. BDID-700-0	REV 0
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SCALE: 1:16 SHEET 1 OF 2

GENERAL NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH APPLICABLE STANDARDS LISTED IN MIL-STD-100-G AND ASME Y14.100M
2. THE FOLLOWING ARE MANDATORY UNLESS OTHERWISE SPECIFIED:
 - REMOVE BURRS
 - BREAK SHARP EDGES
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3. FILE TO BE PROVIDED FOR FLAT PATTERN CUTTING.

ASSEMBLE AS SHOWN



DETAIL B
SCALE 1 : 1.5

ASSEMBLY STEPS:

1. PRESS STIFFENER INTO PENDULUM AS SHOWN.
2. DRILL STIFFENER & PEDULUM OUT TO 1" DIA.
3. PRESS PIVOT SHAFT INTO PLACE, LEAVING 1/4" ROOM FOR WELDING.
4. WELD ALL TOGETHER, MAINTAINING SHAFT TO PENDULUM PERPENDICULAR.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	BDID-706	PENDULUM	1
2	BDID-704	1" DIA PIVOT SHAFT	1
3	BDID-705	STIFFENER	1

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**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

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--	--
BDID-100-0	--
NEXT ASSY	NEXT ASSY

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
GENERAL TOLERANCES:
FRACTIONAL $\pm 1/32$
ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 3^\circ$
X ± 0.063 X.XX ± 0.010
X.X ± 0.031 X.XXX ± 0.005

MACHINE FINISH: 125	INTERPRET GEO. TOL. PER: ASME Y14.5M-1994
MATERIAL: --	MATERIAL DESCRIPTION: --
QUANTITY: (1) REQ'D	WEIGHT: 7.40 lbs.

DO NOT SCALE DRAWING

NAME	DATE
GDL	09/16/13
CHECKED BY:	CDH
10/08/13	
ENG APPR.:	--
--/--	
MFG APPR.:	--
--/--	

COMMENTS:
HARDWARE:
10-24 TORQUE REQ'D 2-3 FT-LBS
1/4-20 TORQUE REQ'D 6-7 FT-LBS
5/16-18 TORQUE REQ'D 15-20 FT-LBS
3/8-16 TORQUE REQ'D 22-25 FT-LBS

ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT
US ARMY ABERDEEN TEST CENTER
ABERDEEN PROVING GROUND, MD 21005-5059

TITLE:
**SWING PENDULUM
BODY ARMOR
DURABILITY IMPACT DEVICE**

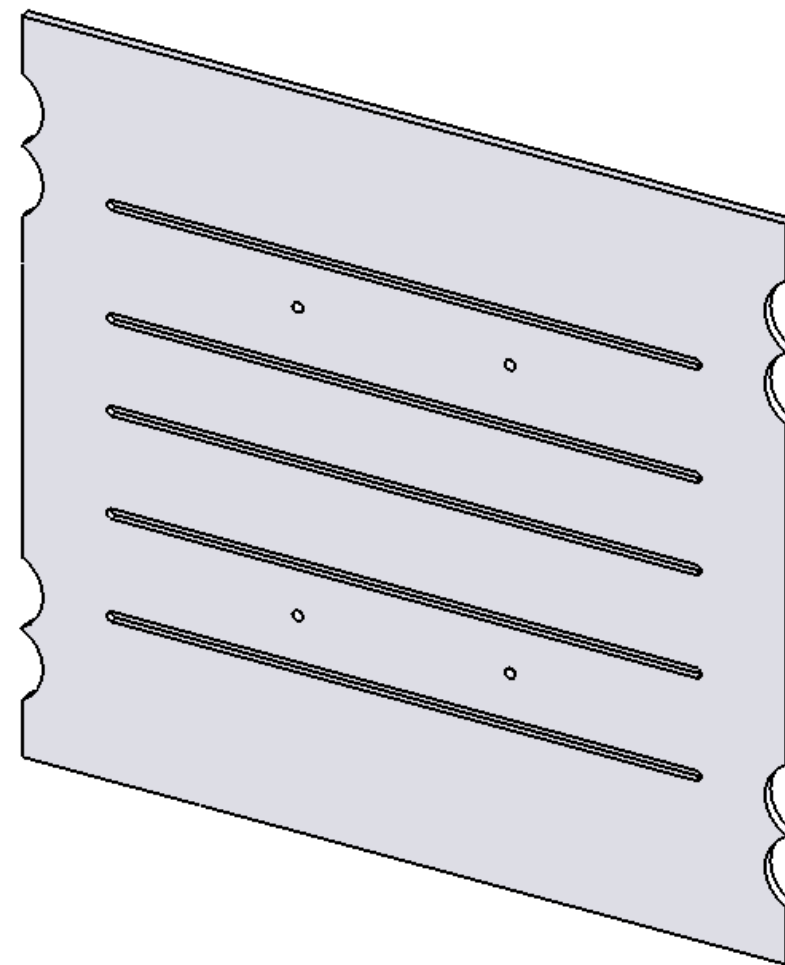
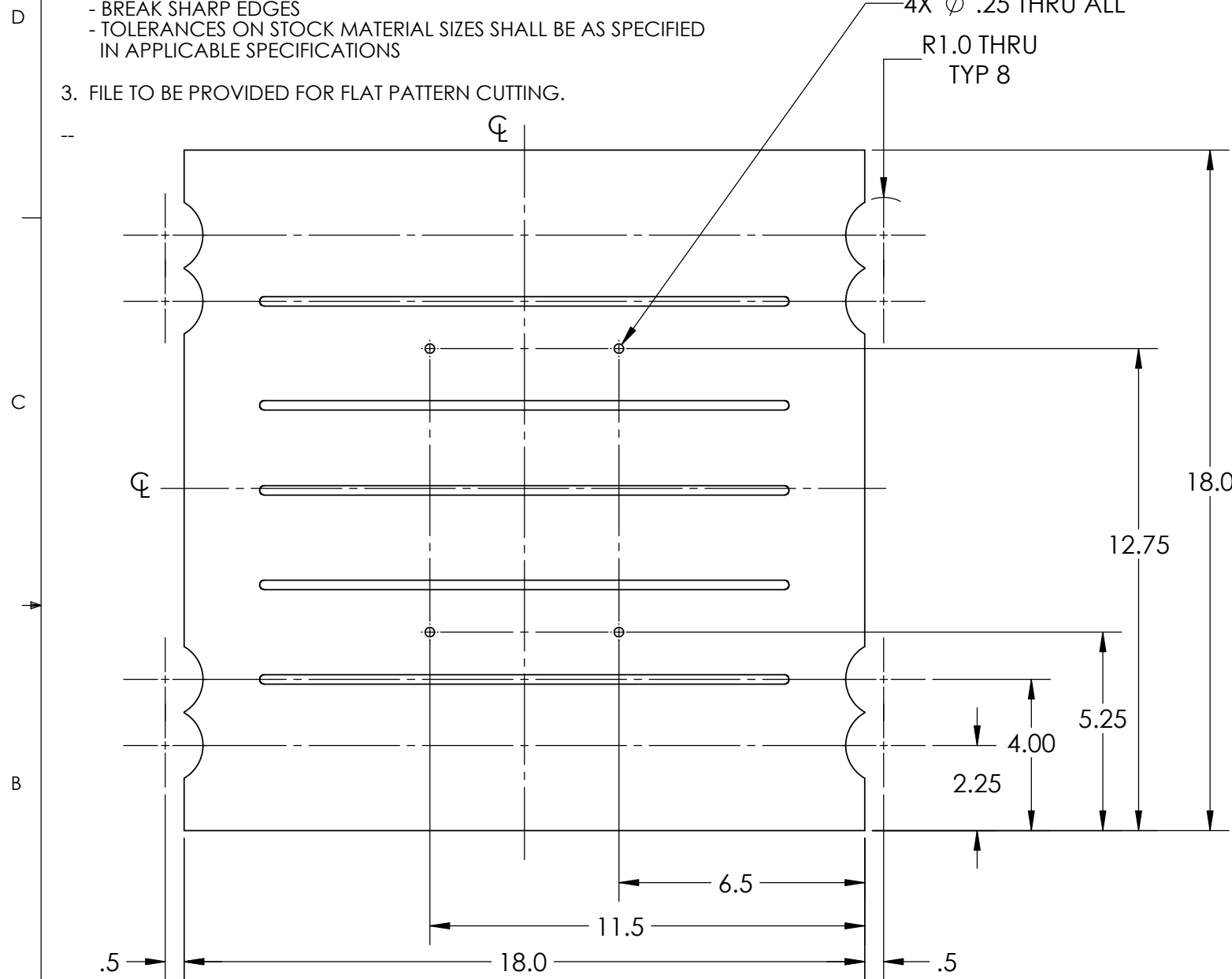
SIZE B	DWG. NO. BDID-700-0	REV 0
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SCALE: 1:16 SHEET 2 OF 2

GENERAL NOTES:

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REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
A3	1	SPECIFYING MATERIAL THICKNESS	11/07/13	GDL



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**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

--	--
BDID-100-0	--
BDID-700-0	--
NEXT ASSY	NEXT ASSY

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES	
GENERAL TOLERANCES:	
FRACTIONAL ± 1/32	
ANGULAR: MACH ± 1° BEND ± 3°	
X ± 0.063	X.XX ± 0.010
X.X ± 0.031	X.XXX ± 0.005
MACHINE FINISH: 125	INTERPRET GEO. TOL. PER: ASME Y14.5M-1994
MATERIAL: PE High Density	MATERIAL DESCRIPTION:
QUANTITY: (1) REQ'D	WEIGHT: 2.63 lbs.
DO NOT SCALE DRAWING	

NAME	DATE
GDL	09/16/13
CHECKED BY:	CDH
10/08/13	
ENG APPR.:	--
--/--	
MFG APPR.:	--
--/--	

COMMENTS:
1/4" THICK STOCK SHEET

ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT US ARMY ABERDEEN TEST CENTER ABERDEEN PROVING GROUND, MD 21005-5059		
TITLE: CLAY MOUNTING FACE BODY ARMOR DURABILITY IMPACT DEVICE		
SIZE B	DWG. NO. BDID-701-1	REV 1
SCALE: 1:4		SHEET 1 OF 2

GENERAL NOTES:

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REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
A3	1	SPECIFYING MATERIAL THICKNESS	11/07/13	GDL

D

D

C

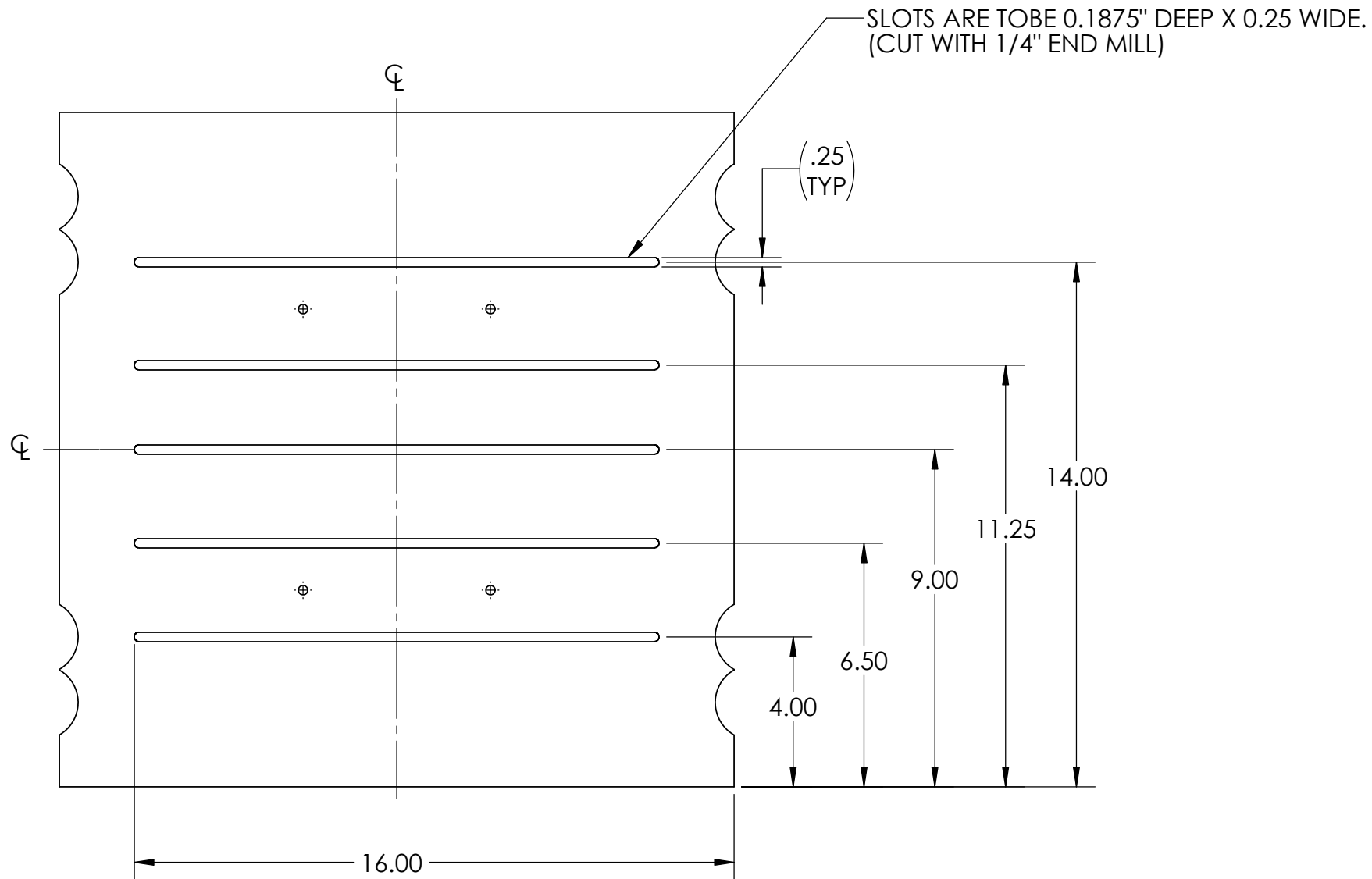
C

B

B

A

A



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**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

--	--
BDID-100-0	--
BDID-700-0	--
NEXT ASSY	NEXT ASSY

UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN INCHES
 GENERAL TOLERANCES:
 FRACTIONAL ± 1/32
 ANGULAR: MACH ± 1° BEND ± 3°
 X ± 0.063 X.XX ± 0.010
 X.X ± 0.031 X.XXX ± 0.005

MACHINE FINISH: 125	INTERPRET GEO. TOL. PER: ASME Y14.5M-1994
MATERIAL: PE High Density	MATERIAL DESCRIPTION:
QUANTITY: (1) REQ'D	WEIGHT: 2.63 lbs.
DO NOT SCALE DRAWING	

NAME	DATE
GDL	09/16/13
CHECKED BY:	CDH
10/08/13	
ENG APPR.:	--
--/--	
MFG APPR.:	--
--/--	

COMMENTS:
1/4" THICK STOCK SHEET

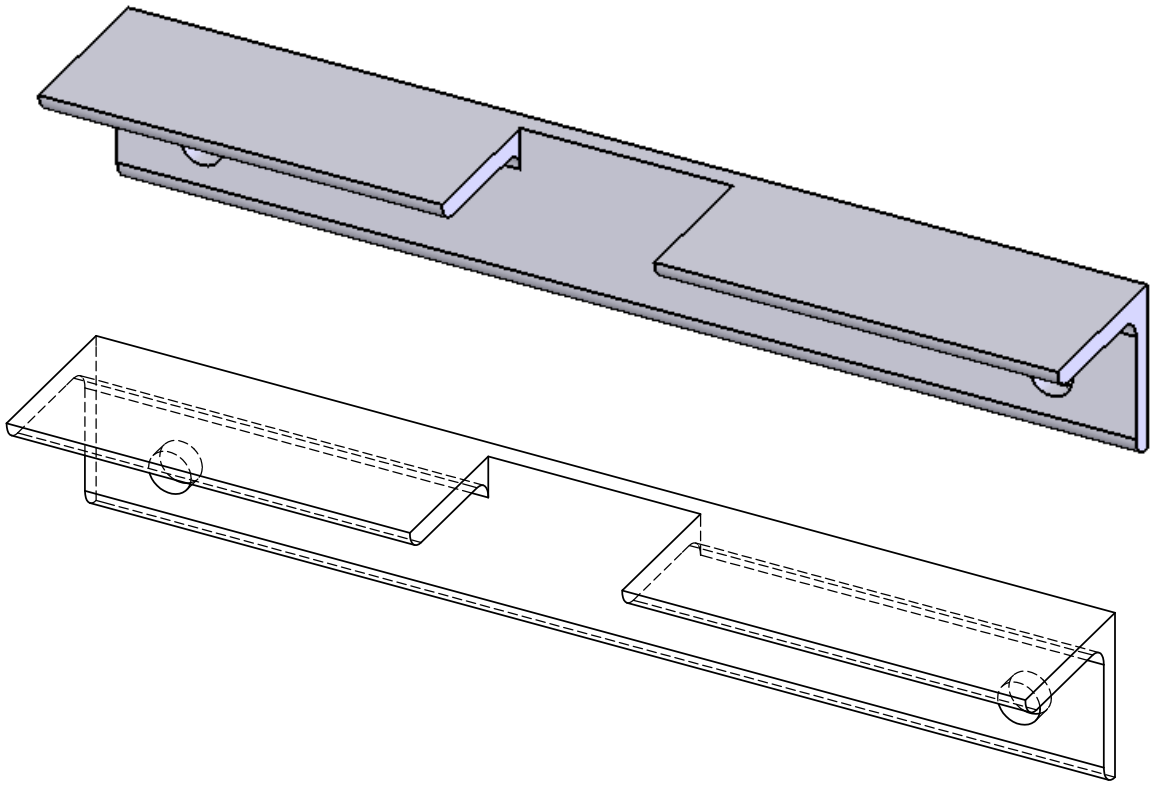
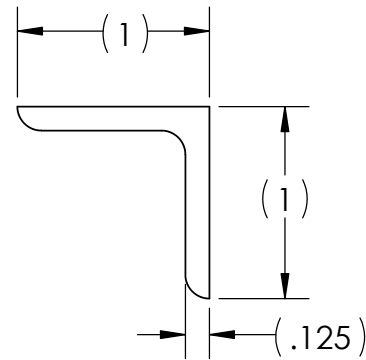
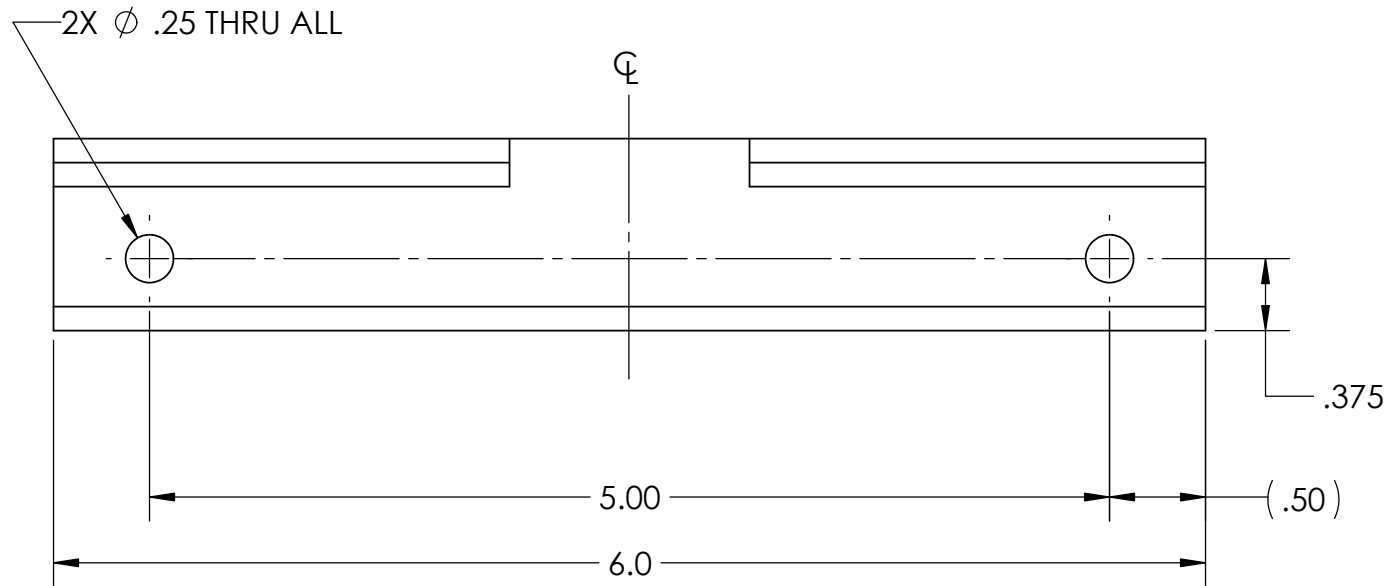
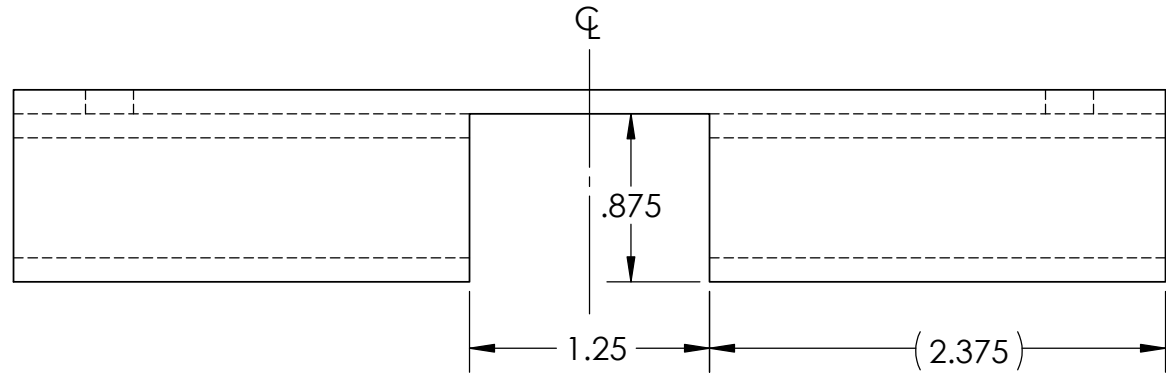
ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT
 US ARMY ABERDEEN TEST CENTER
 ABERDEEN PROVING GROUND, MD 21005-5059

TITLE:
**CLAY MOUNTING FACE
BODY ARMOR
DURABILITY IMPACT DEVICE**

SIZE B	DWG. NO. BDID-701-1	REV 1
SCALE: 1:4		SHEET 2 OF 2

GENERAL NOTES:

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**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

--	--
BDID-100-0	--
BDID-700-0	--
NEXT ASSY	NEXT ASSY

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES GENERAL TOLERANCES: FRACTIONAL ± 1/32 ANGULAR: MACH ± 1° BEND ± 3° X ± 0.063 X.XX ± 0.010 X.X ± 0.031 X.XXX ± 0.005	
MACHINE FINISH: 125	INTERPRET GEO. TOL. PER: ASME Y14.5M-1994
MATERIAL: 6061 Alloy	MATERIAL DESCRIPTION: STOCK ANGLE
QUANTITY: (2) REQ'D	WEIGHT: 0.12 lbs.
DO NOT SCALE DRAWING	

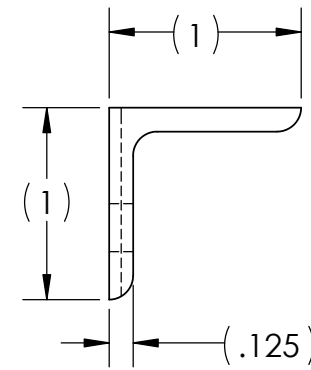
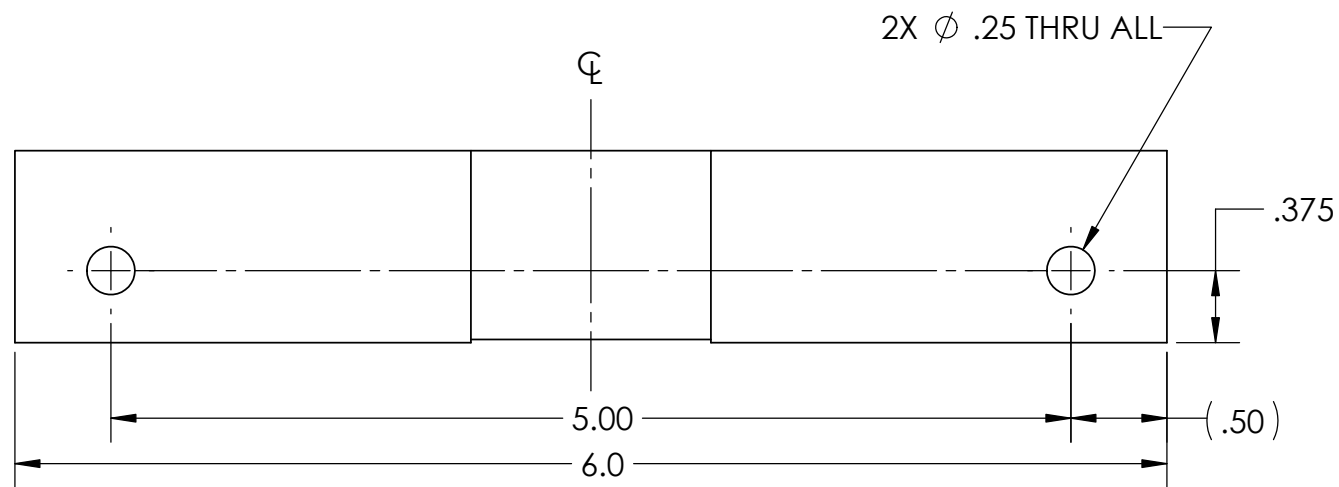
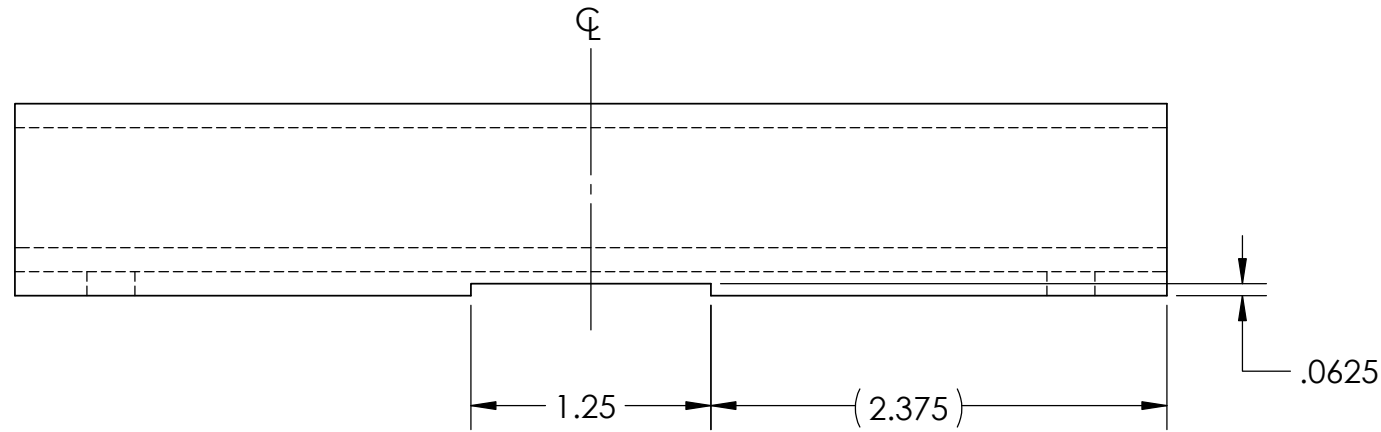
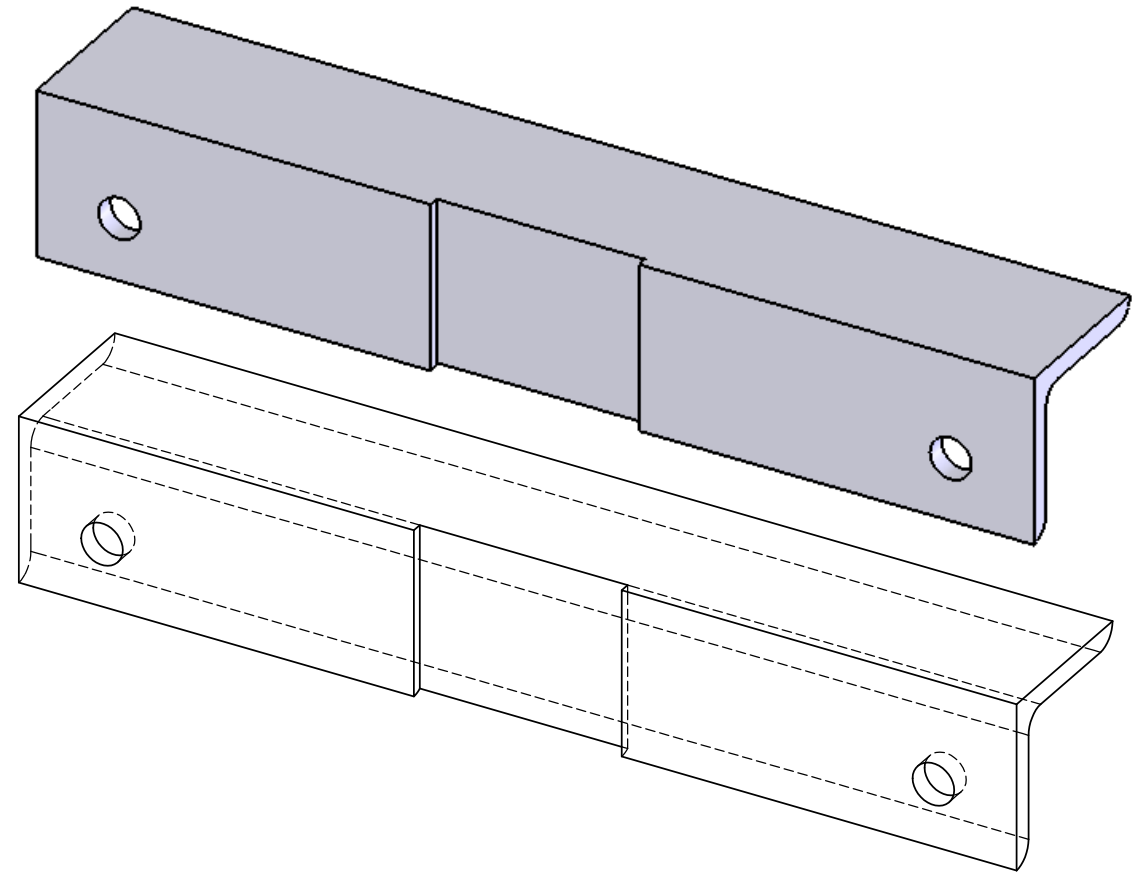
NAME	DATE
GDL	09/16/13
CHECKED BY:	CDH
10/08/13	
ENG APPR.:	--
--/--	
MFG APPR.:	--
--/--	

COMMENTS:
--

ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT US ARMY ABERDEEN TEST CENTER ABERDEEN PROVING GROUND, MD 21005-5059		
TITLE: 1x1 ANGLE BODY ARMOR DURABILITY IMPACT DEVICE		
SIZE B	DWG. NO. BDID-702-0	REV 0
SCALE: 1:1		SHEET 1 OF 1

GENERAL NOTES:

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- FILE TO BE PROVIDED FOR FLAT PATTERN CUTTING.



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**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

--	--
BDID-100-0	--
BDID-700-0	--
NEXT ASSY	NEXT ASSY

UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN INCHES
 GENERAL TOLERANCES:
 FRACTIONAL $\pm 1/32$
 ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 3^\circ$
 X ± 0.063 X.XX ± 0.010
 X.X ± 0.031 X.XXX ± 0.005

MACHINE FINISH: 125	INTERPRET GEO. TOL. PER: ASME Y14.5M-1994
MATERIAL: 6061 Alloy	MATERIAL DESCRIPTION: STOCK ANGLE
QUANTITY: (2) REQ'D	WEIGHT: 0.13 lbs.

DO NOT SCALE DRAWING

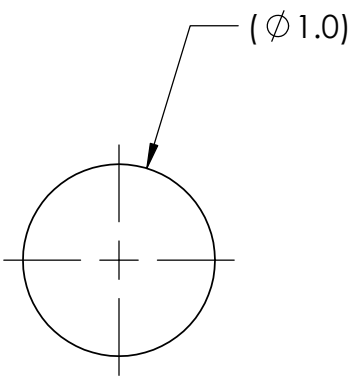
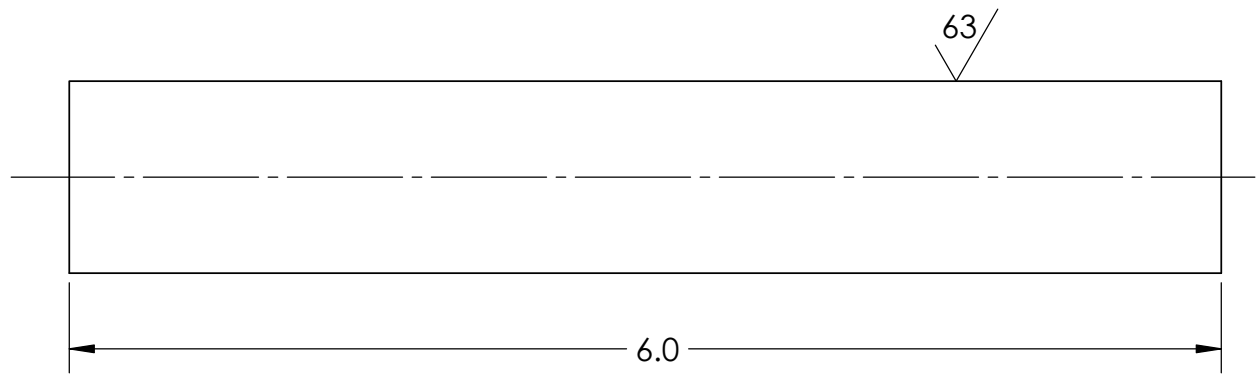
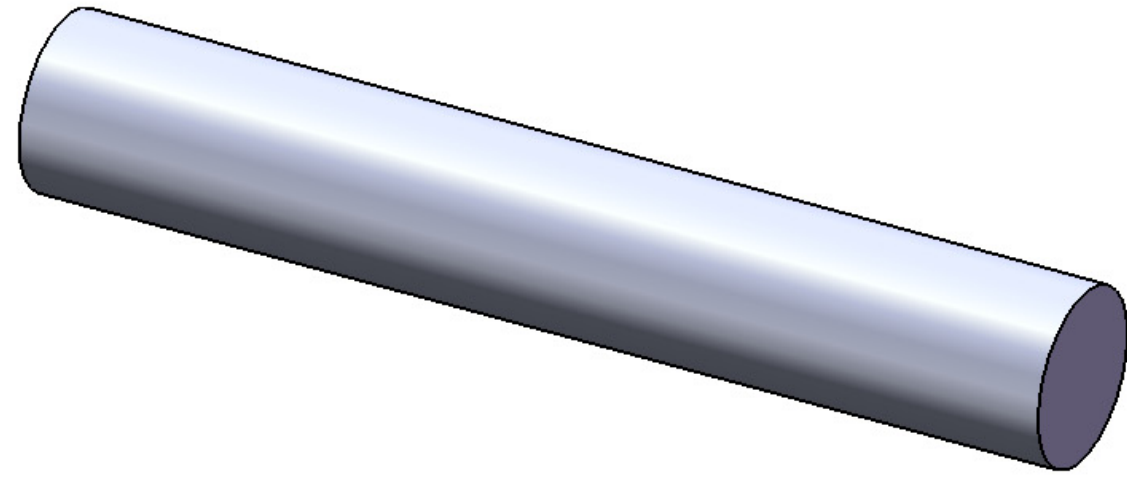
NAME	DATE
GDL	09/16/13
CHECKED BY:	CDH
10/08/13	
ENG APPR.:	--
--/--	
MFG APPR.:	--
--/--	

COMMENTS:
--

ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT US ARMY ABERDEEN TEST CENTER ABERDEEN PROVING GROUND, MD 21005-5059		
TITLE: 1x1 ANGLE BODY ARMOR DURABILITY IMPACT DEVICE		
SIZE B	DWG. NO. BDID-703-0	REV 0
SCALE: 1:1		SHEET 1 OF 1

GENERAL NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH APPLICABLE STANDARDS LISTED IN MIL-STD-100-G AND ASME Y14.100M
2. THE FOLLOWING ARE MANDATORY UNLESS OTHERWISE SPECIFIED:
 - REMOVE BURRS
 - BREAK SHARP EDGES
 - TOLERANCES ON STOCK MATERIAL SIZES SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS
3. FILE TO BE PROVIDED FOR FLAT PATTERN CUTTING.



DISTRIBUTION STATEMENT C. Distribution authorized to U.S. Government agencies and their contractors (Operational Use, date of determination-June 1989). Other requests shall be referred to the U.S. Army Aberdeen Test Center Commander, CSTE-DTC-AT-CO Aberdeen Proving Ground, MD 21005-5059.

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**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

--	--
BDID-100-0	--
BDID-700-0	--
NEXT ASSY	NEXT ASSY

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES	
GENERAL TOLERANCES:	
FRACTIONAL ± 1/32	
ANGULAR: MACH ± 1° BEND ± 3°	
X ± 0.063	X.XX ± 0.010
X.X ± 0.031	X.XXX ± 0.005
MACHINE FINISH: 125	INTERPRET GEO. TOL. PER: ASME Y14.5M-1994
MATERIAL: 6061-T6 (SS)	MATERIAL DESCRIPTION: ALUMINUM ROUND
QUANTITY: (1) REQ'D	WEIGHT: STOCK 0.460 lbs.
DO NOT SCALE DRAWING	

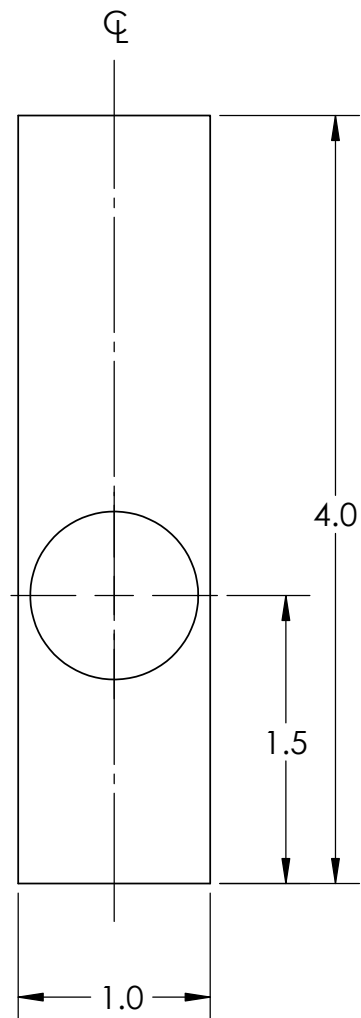
DRAWN BY:	GDL	DATE	09/16/16
CHECKED BY:	CDH	DATE	10/08/13
ENG APPR.:	--	DATE	--/--
MFG APPR.:	--	DATE	--/--

COMMENTS:
--

ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT US ARMY ABERDEEN TEST CENTER ABERDEEN PROVING GROUND, MD 21005-5059		
TITLE: 1" DIA PIVOT SHAFT BODY ARMOR DURABILITY IMPACT DEVICE		
SIZE B	DWG. NO. BDID-704-0	REV 0
SCALE: 1:1		SHEET 1 OF 1

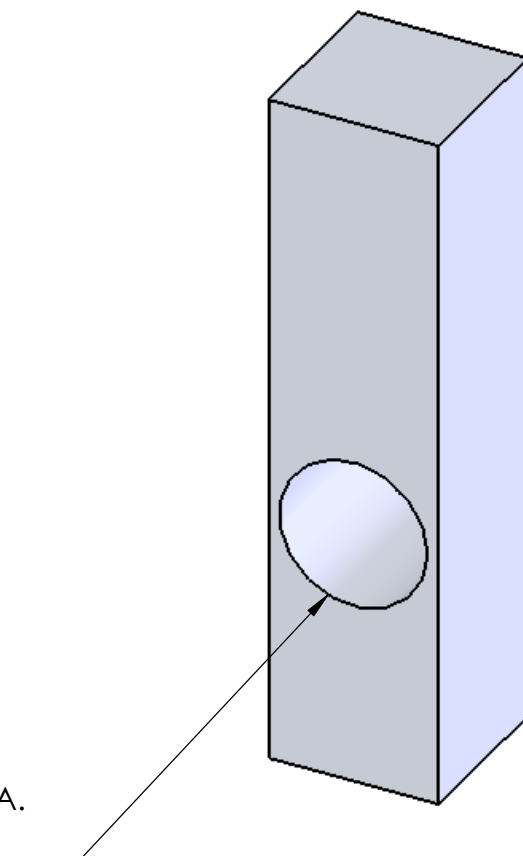
GENERAL NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH APPLICABLE STANDARDS LISTED IN MIL-STD-100-G AND ASME Y14.100M
2. THE FOLLOWING ARE MANDATORY UNLESS OTHERWISE SPECIFIED:
 - REMOVE BURRS
 - BREAK SHARP EDGES
 - TOLERANCES ON STOCK MATERIAL SIZES SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS
3. FILE TO BE PROVIDED FOR FLAT PATTERN CUTTING.



NOTES:

1. DRILL 7/8" DIA CENTERING/LOCATING HOLE.
2. PRESS FIT THE STIFFENER INTO THE PENDULUM.
3. DRILL THE PENDULUM & THE STIFFENER TO APPROXIMATELY 1" DIA.
4. PRESS FIT THE PIVOT SHAFT INTO PENDULUM & STIFFENER.
5. WELD



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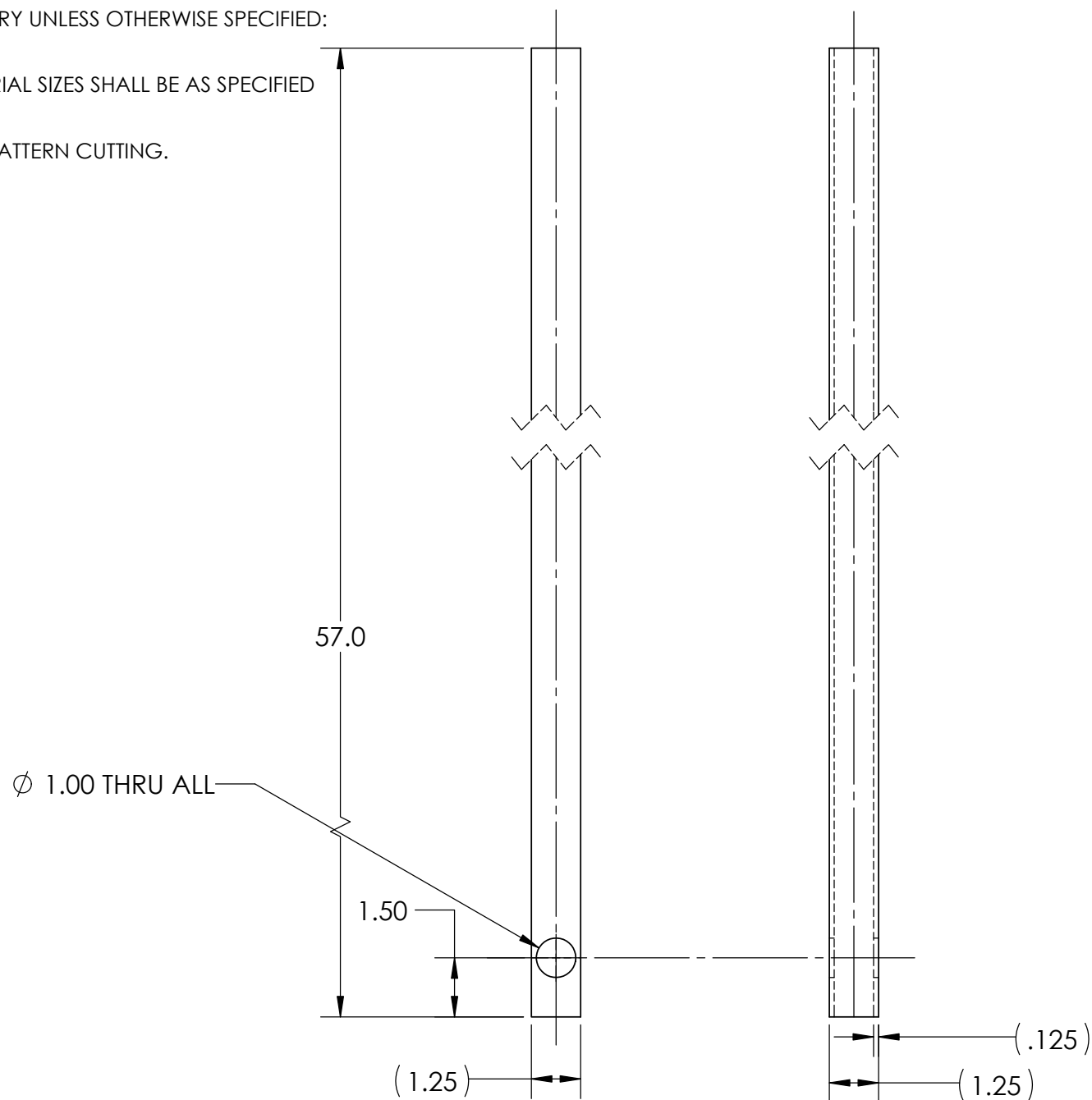
**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

--	--	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES GENERAL TOLERANCES: FRACTIONAL $\pm 1/32$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 3^\circ$ X ± 0.063 X.XX ± 0.010 X.X ± 0.031 X.XXX ± 0.005	DRAWN BY:	GDL	09/16/13
BDID-100-0	--		CHECKED BY:	CDH	10/08/13
BDID-700-0	--		ENG APPR.:	--	--/--
NEXT ASSY	NEXT ASSY		MFG APPR.:	--	--/--
		MACHINE FINISH:	INTERPRET GEO. TOL. PER:		
		125	ASME Y14.5M-1994		
		MATERIAL:	MATERIAL DESCRIPTION:		
		6061 Alloy			
		QUANTITY:	WEIGHT:		
		(1) REQ'D	0.33 lbs.		
DO NOT SCALE DRAWING					

ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT US ARMY ABERDEEN TEST CENTER ABERDEEN PROVING GROUND, MD 21005-5059		
TITLE: STIFFENER BODY ARMOR DURABILITY IMPACT DEVICE		
SIZE B	DWG. NO. BDID-705-0	REV 0
SCALE: 1:1		SHEET 1 OF 1

GENERAL NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH APPLICABLE STANDARDS LISTED IN MIL-STD-100-G AND ASME Y14.100M
2. THE FOLLOWING ARE MANDATORY UNLESS OTHERWISE SPECIFIED:
 - REMOVE BURRS
 - BREAK SHARP EDGES
 - TOLERANCES ON STOCK MATERIAL SIZES SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS
3. FILE TO BE PROVIDED FOR FLAT PATTERN CUTTING.



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**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

--	--
BDID-100-0	--
BDID-700-0	--
NEXT ASSY	NEXT ASSY

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES GENERAL TOLERANCES: FRACTIONAL ± 1/32 ANGULAR: MACH ± 1° BEND ± 3° X ± 0.063 X.XX ± 0.010 X.X ± 0.031 X.XXX ± 0.005	
MACHINE FINISH: 125	INTERPRET GEO. TOL. PER: ASME Y14.5M-1994
MATERIAL: 6061 Alloy	MATERIAL DESCRIPTION:
QUANTITY: (1) REQ'D	WEIGHT: 3.11 lbs.
DO NOT SCALE DRAWING	

	NAME	DATE
DRAWN BY:	GDL	09/20/13
CHECKED BY:	CDH	10/08/13
ENG APPR.:	--	--/--
MFG APPR.:	--	--/--

COMMENTS:
--

ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT
US ARMY ABERDEEN TEST CENTER
ABERDEEN PROVING GROUND, MD 21005-5059

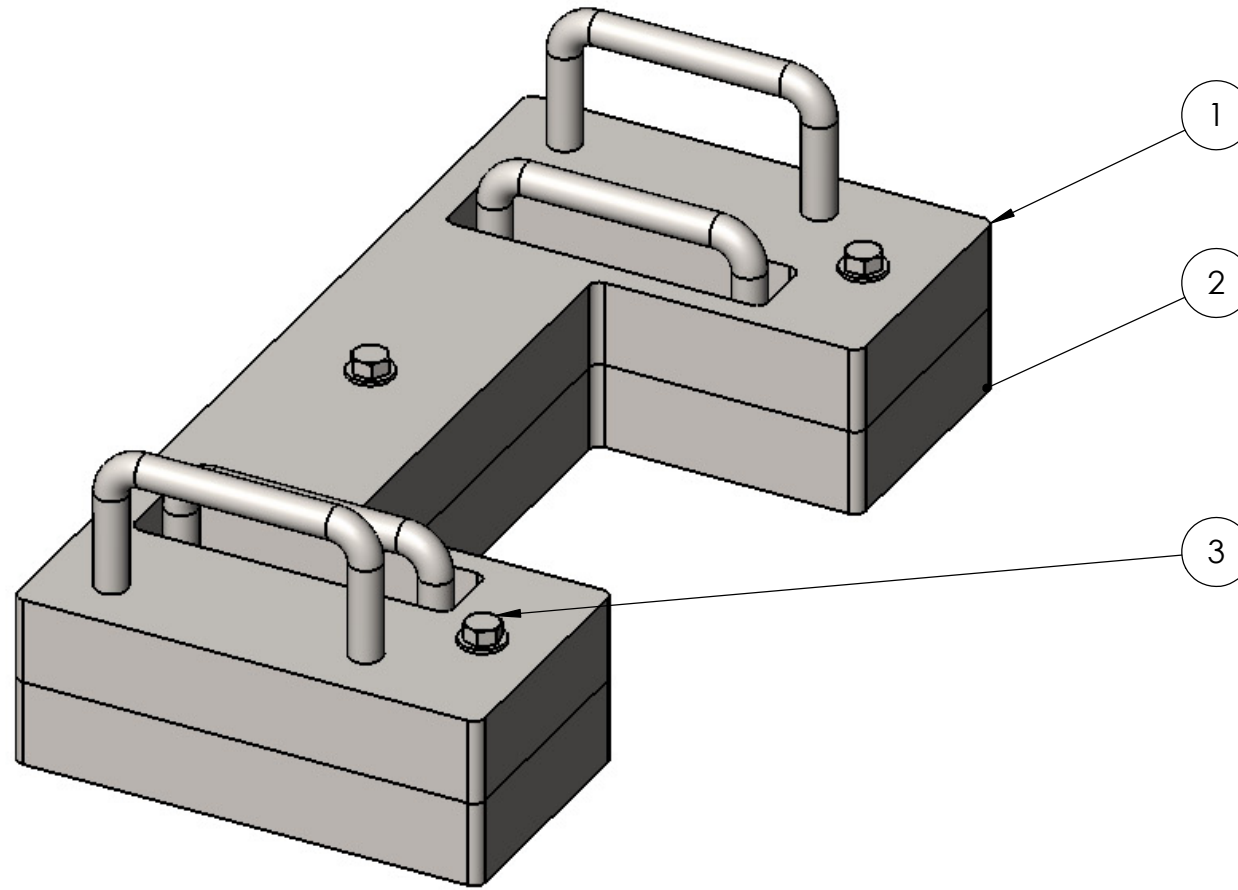
TITLE:
**PENDULUM
BODY ARMOR
DURABILITY IMPACT DEVICE**

SIZE B	DWG. NO. BDID-706-0	REV 0
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SCALE: 1:8 SHEET 1 OF 1

GENERAL NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH APPLICABLE STANDARDS LISTED IN MIL-STD-100-G AND ASME Y14.100M
2. THE FOLLOWING ARE MANDATORY UNLESS OTHERWISE SPECIFIED:
 - REMOVE BURRS
 - BREAK SHARP EDGES
 - TOLERANCES ON STOCK MATERIAL SIZES SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS
3. FILE TO BE PROVIDED FOR FLAT PATTERN CUTTING.



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	BDID-802	BDID TOP WEIGHT	1
2	BDID-801	BDID BOTTOM WEIGHT	1
3	0.5 HEX BOLT WASHER	1/2-13x1 HEX HEAD BOLT	3

DISTRIBUTION STATEMENT C. Distribution authorized to U.S. Government agencies and their contractors (Operational Use, date of determination-June 1989). Other requests shall be referred to the U.S. Army Aberdeen Test Center Commander, CSTE-DTC-AT-CO Aberdeen Proving Ground, MD 21005-5059.

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**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

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--	--
BDID-100-0	--
NEXT ASSY	NEXT ASSY

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
 GENERAL TOLERANCES:
 FRACTIONAL ± 1/32
 ANGULAR: MACH ± 1° BEND ± 3°
 X ± 0.063 X.XX ± 0.010
 X.X ± 0.031 X.XXX ± 0.005

MACHINE FINISH: 125	INTERPRET GEO. TOL. PER: ASME Y14.5M-1994
MATERIAL:	MATERIAL DESCRIPTION:
QUANTITY: (1) REQ'D	WEIGHT: 198.65 lbs.

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN BY:	GDL	09/24/13
CHECKED BY:	CDH	10/08/13
ENG APPR.:	--	--/--
MFG APPR.:	--	--/--

COMMENTS:
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ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT
 US ARMY ABERDEEN TEST CENTER
 ABERDEEN PROVING GROUND, MD 21005-5059

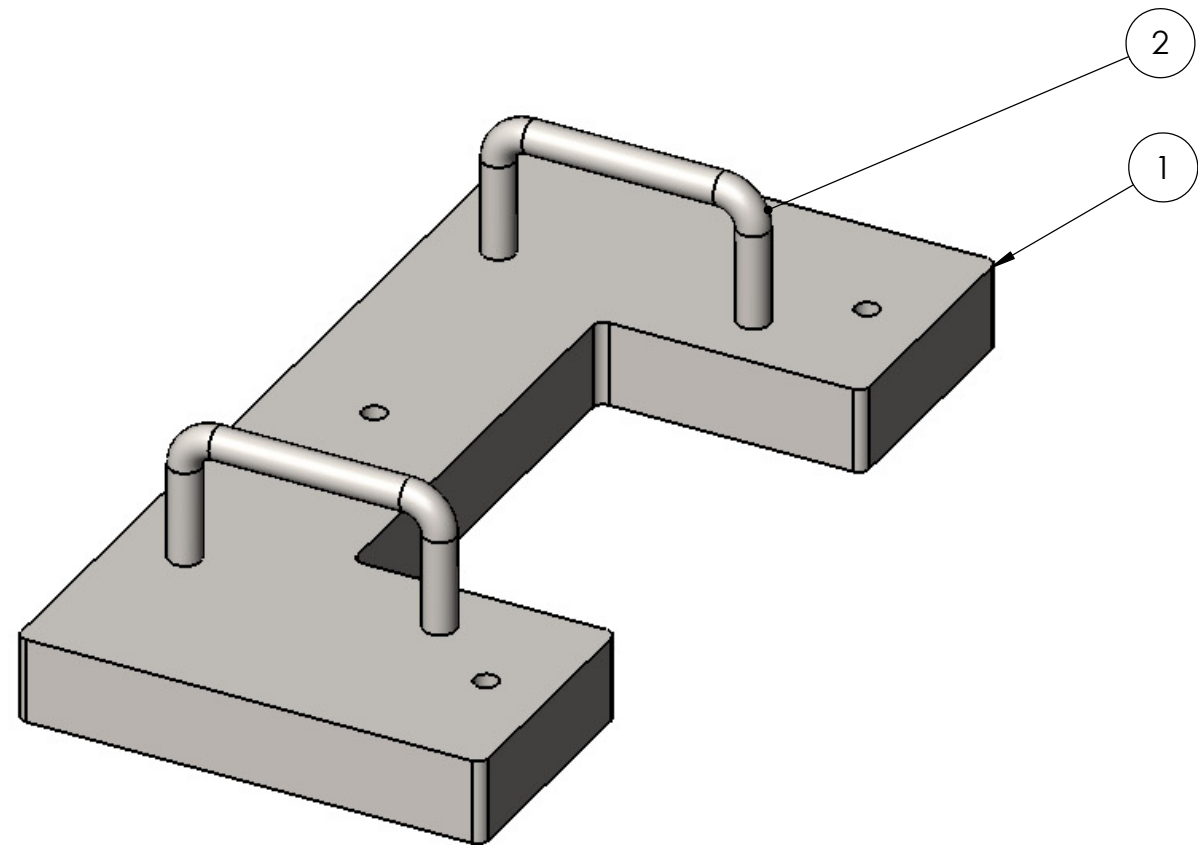
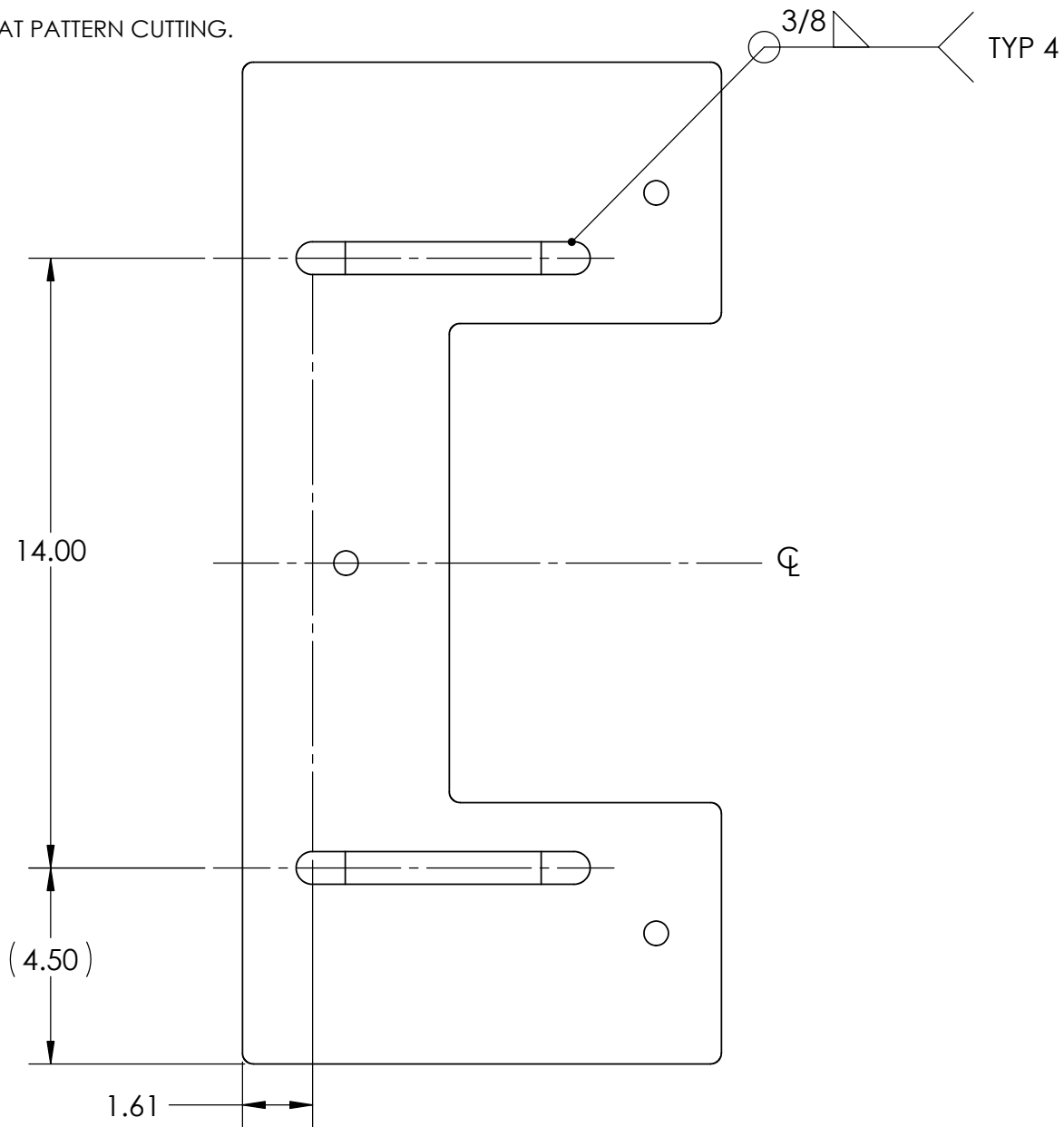
TITLE:
**BDID WEIGHT KIT
 BODY ARMOR
 DURABILITY IMPACT DEVICE**

SIZE B	DWG. NO. BDID-800-0	REV 0
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SCALE: 1:8 SHEET 1 OF 1

GENERAL NOTES:

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 - REMOVE BURRS
 - BREAK SHARP EDGES
 - TOLERANCES ON STOCK MATERIAL SIZES SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS
3. FILE TO BE PROVIDED FOR FLAT PATTERN CUTTING.



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	BDID-801	BDID BOTTOM WEIGHT	1
2	BDID-803	BDID WEIGHT SET HANDLE	2

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**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

--	--
BDID-100-0	--
BDID-800-0	--
NEXT ASSY	NEXT ASSY

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
 GENERAL TOLERANCES:
 FRACTIONAL ± 1/32
 ANGULAR: MACH ± 1° BEND ± 3°
 X ± 0.063 X.XX ± 0.010
 X.X ± 0.031 X.XXX ± 0.005

MACHINE FINISH: 125	INTERPRET GEO. TOL. PER: ASME Y14.5M-1994
MATERIAL:	MATERIAL DESCRIPTION:
QUANTITY: (1) REQ'D	WEIGHT: 106.22 lbs.

DO NOT SCALE DRAWING

NAME	DATE
GDL	09/24/13
CHECKED BY:	CDH
10/08/13	
ENG APPR.:	--
--/--	
MFG APPR.:	--
--/--	

COMMENTS:
--

ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT
 US ARMY ABERDEEN TEST CENTER
 ABERDEEN PROVING GROUND, MD 21005-5059

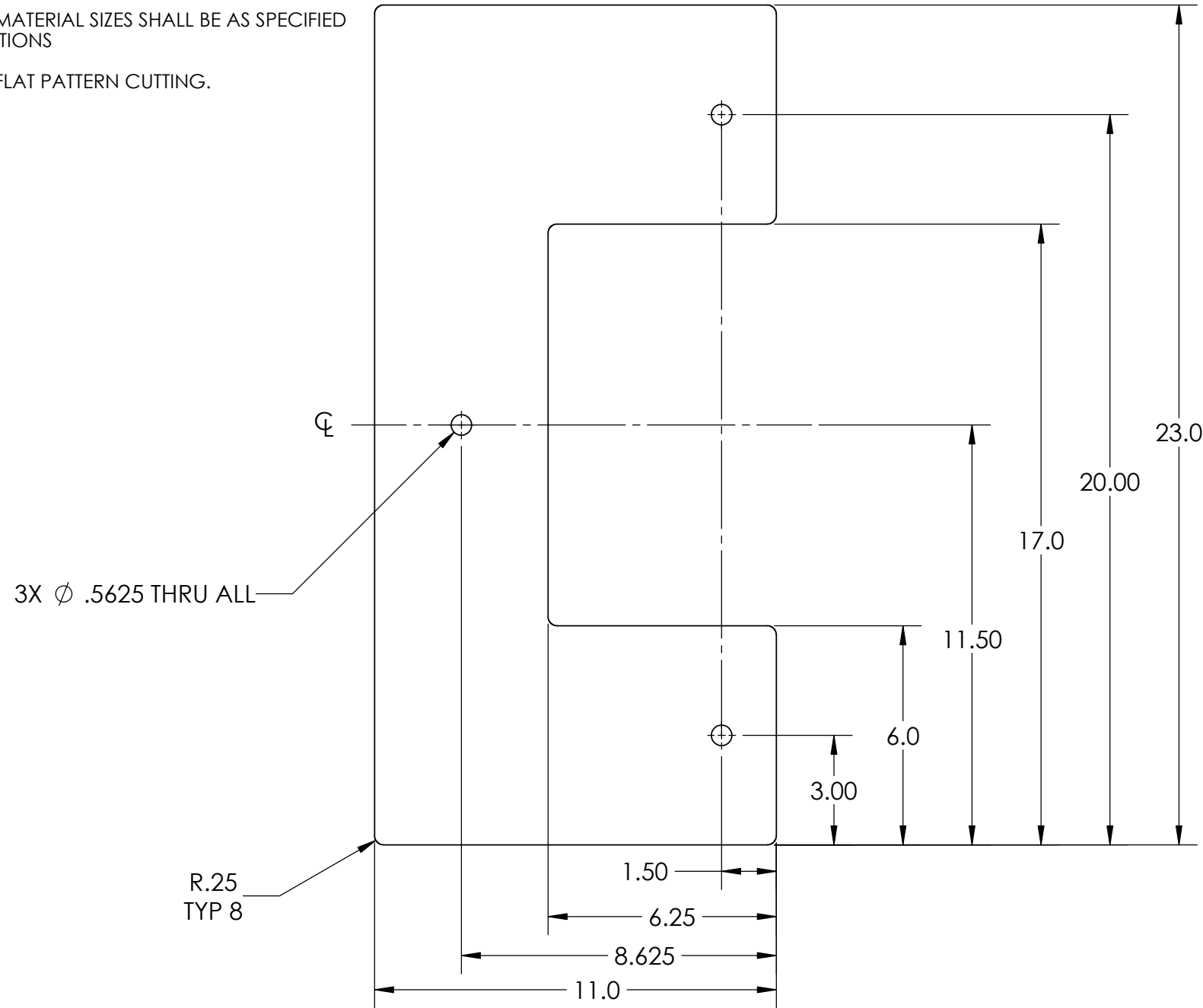
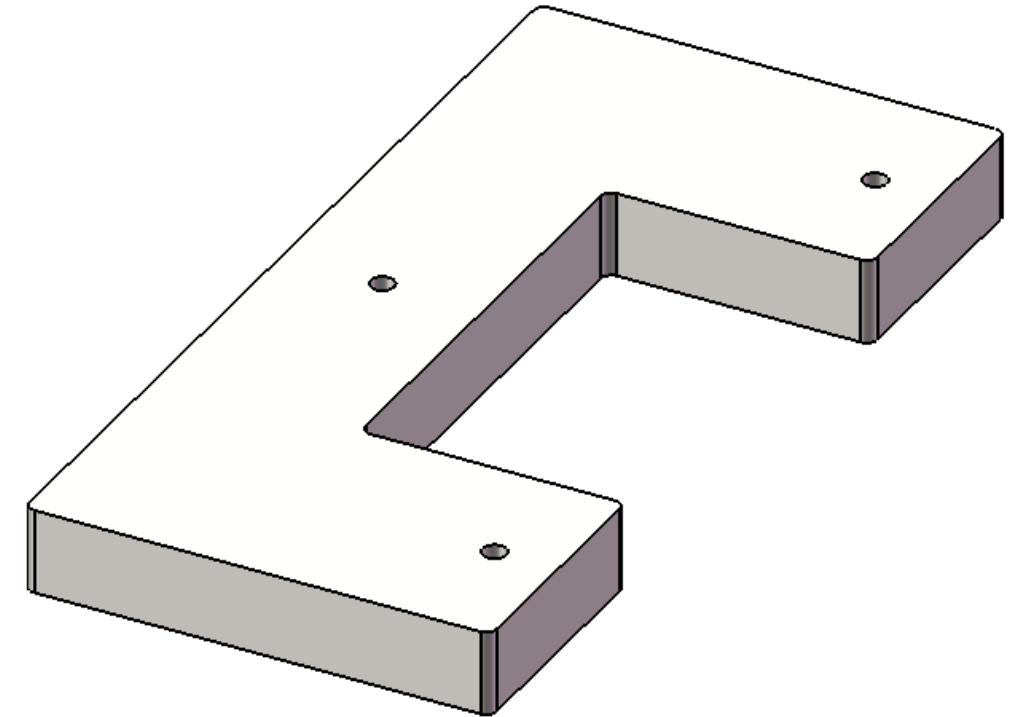
TITLE:
 BDID BOTTOM WEIGHT
 BODY ARMOR
 DURABILITY IMPACT DEVICE

SIZE B	DWG. NO. BDID-801-0	REV 0
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SCALE: 1:8 SHEET 1 OF 2

GENERAL NOTES:

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3. FILE TO BE PROVIDED FOR FLAT PATTERN CUTTING.



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**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

--	--
BDID-100-0	--
BDID-800-0	--
NEXT ASSY	NEXT ASSY

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
 GENERAL TOLERANCES:
 FRACTIONAL ± 1/32
 ANGULAR: MACH ± 1° BEND ± 3°
 X ± 0.063 X.XX ± 0.010
 X.X ± 0.031 X.XXX ± 0.005

MACHINE FINISH: 125	INTERPRET GEO. TOL. PER: ASME Y14.5M-1994
MATERIAL: Plain Carbon Steel	MATERIAL DESCRIPTION: 2" STEEL PLATE
QUANTITY: (1) REQ'D	WEIGHT: 103.39 lbs.

DO NOT SCALE DRAWING

NAME	DATE
GDL	09/24/13
CHECKED BY:	CDH
10/08/13	
ENG APPR.:	--
--/--	
MFG APPR.:	--
--/--	

COMMENTS:
--

ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT
 US ARMY ABERDEEN TEST CENTER
 ABERDEEN PROVING GROUND, MD 21005-5059

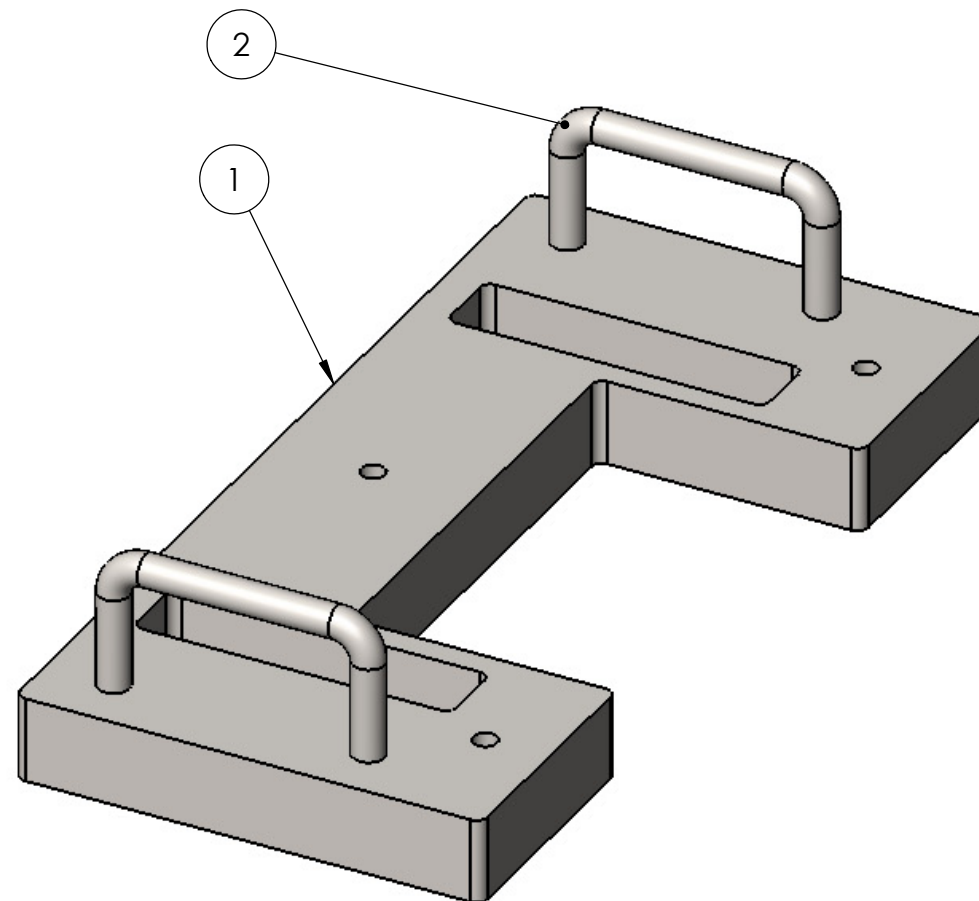
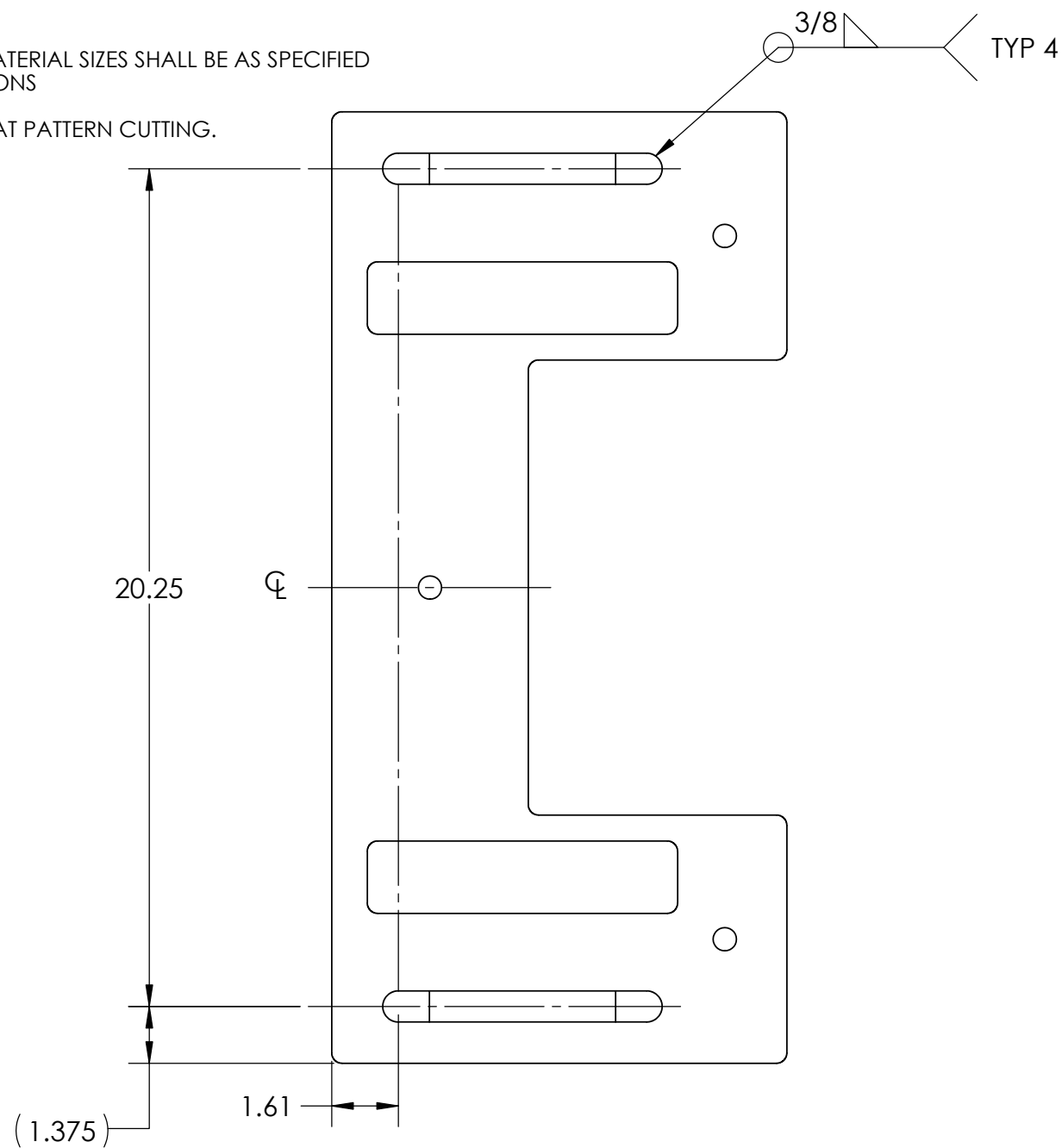
TITLE:
**BDID BOTTOM WEIGHT
 BODY ARMOR
 DURABILITY IMPACT DEVICE**

SIZE B	DWG. NO. BDID-801-0	REV 0
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SCALE: 1:8 SHEET 2 OF 2

GENERAL NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH APPLICABLE STANDARDS LISTED IN MIL-STD-100-G AND ASME Y14.100M
2. THE FOLLOWING ARE MANDATORY UNLESS OTHERWISE SPECIFIED:
 - REMOVE BURRS
 - BREAK SHARP EDGES
 - TOLERANCES ON STOCK MATERIAL SIZES SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS
3. FILE TO BE PROVIDED FOR FLAT PATTERN CUTTING.



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	BDID-802	BDID TOP WEIGHT	1
2	BDID-803	BDID WEIGHT SET HANDLE	2

DISTRIBUTION STATEMENT C. Distribution authorized to U.S. Government agencies and their contractors (Operational Use, date of determination-June 1989). Other requests shall be referred to the U.S. Army Aberdeen Test Center Commander, CSTE-DTC-AT-CO Aberdeen Proving Ground, MD 21005-5059.

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**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

--	--
BDID-100-0	--
BDID-800-0	--
NEXT ASSY	NEXT ASSY

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
 GENERAL TOLERANCES:
 FRACTIONAL ± 1/32
 ANGULAR: MACH ± 1° BEND ± 3°
 X ± 0.063 X.XX ± 0.010
 X.X ± 0.031 X.XXX ± 0.005

MACHINE FINISH: 125	INTERPRET GEO. TOL. PER: ASME Y14.5M-1994
MATERIAL:	MATERIAL DESCRIPTION:
QUANTITY: (1) REQ'D	WEIGHT: 91.48 lbs.

DO NOT SCALE DRAWING

NAME	DATE
DRAWN BY: GDL	09/24/13
CHECKED BY: CDH	10/08/13
ENG APPR.: --	--/--
MFG APPR.: --	--/--

COMMENTS:
--

ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT
 US ARMY ABERDEEN TEST CENTER
 ABERDEEN PROVING GROUND, MD 21005-5059

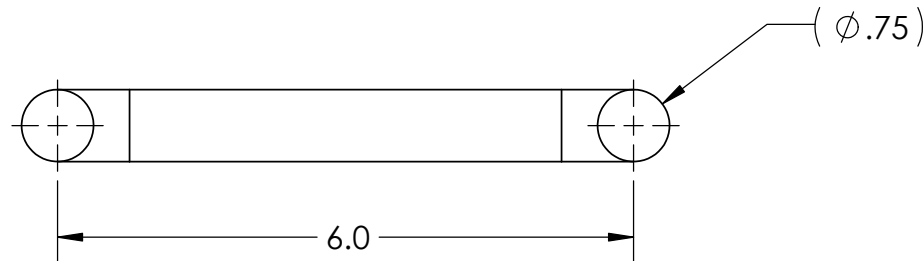
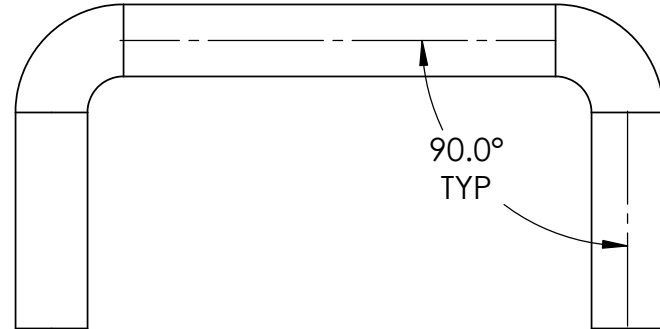
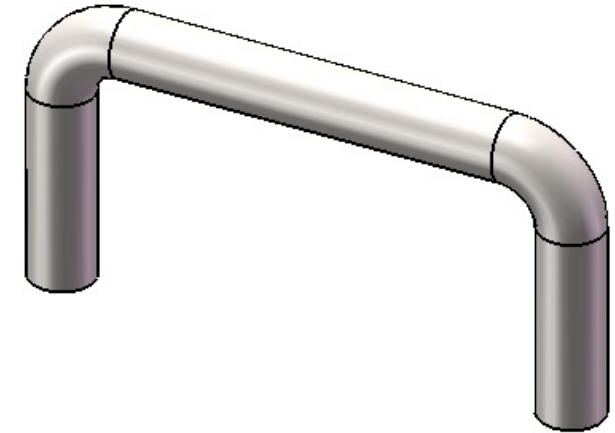
TITLE:
**BDID TOP WEIGHT
 BODY ARMOR
 DURABILITY IMPACT DEVICE**

SIZE B	DWG. NO. BDID-802-0	REV 0
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SCALE: 1:10 SHEET 1 OF 2

GENERAL NOTES:

1. THIS DRAWING SHALL BE INTERPRETED IN ACCORDANCE WITH APPLICABLE STANDARDS LISTED IN MIL-STD-100-G AND ASME Y14.100M
2. THE FOLLOWING ARE MANDATORY UNLESS OTHERWISE SPECIFIED:
 - REMOVE BURRS
 - BREAK SHARP EDGES
 - TOLERANCES ON STOCK MATERIAL SIZES SHALL BE AS SPECIFIED IN APPLICABLE SPECIFICATIONS
3. FILE TO BE PROVIDED FOR FLAT PATTERN CUTTING.



DISTRIBUTION STATEMENT C. Distribution authorized to U.S. Government agencies and their contractors (Operational Use, date of determination-June 1989). Other requests shall be referred to the U.S. Army Aberdeen Test Center Commander, CSTE-DTC-AT-CO Aberdeen Proving Ground, MD 21005-5059.

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**ABERDEEN TEST CENTER
CAGE CODE 44ZX5**

--	--	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES GENERAL TOLERANCES: FRACTIONAL ± 1/32 ANGULAR: MACH ± 1° BEND ± 3° X ± 0.063 X.XX ± 0.010 X.X ± 0.031 X.XXX ± 0.005	DRAWN BY:	GDL	09/24/13
BDID-100-0	--		CHECKED BY:	CDH	10/08/13
BDID-800-0	--		ENG APPR.:	--	--/--
NEXT ASSY	NEXT ASSY		MFG APPR.:	--	--/--
		MACHINE FINISH: 125	INTERPRET GEO. TOL. PER: ASME Y14.5M-1994	COMMENTS: --	
		MATERIAL: Plain Carbon Steel	MATERIAL DESCRIPTION: 3/4" ROUND STOCK		
		QUANTITY: (4) REQ'D	WEIGHT: 1.414 lbs.		
DO NOT SCALE DRAWING					

ENGINEERING DESIGN & DEVELOPMENT BRANCH / IDD / TT US ARMY ABERDEEN TEST CENTER ABERDEEN PROVING GROUND, MD 21005-5059		
TITLE: BDID WEIGHT SET HANDLE BODY ARMOR DURABILITY IMPACT DEVICE		
SIZE B	DWG. NO. BDID-803	REV 0
SCALE: 1:1		SHEET 1 OF 1