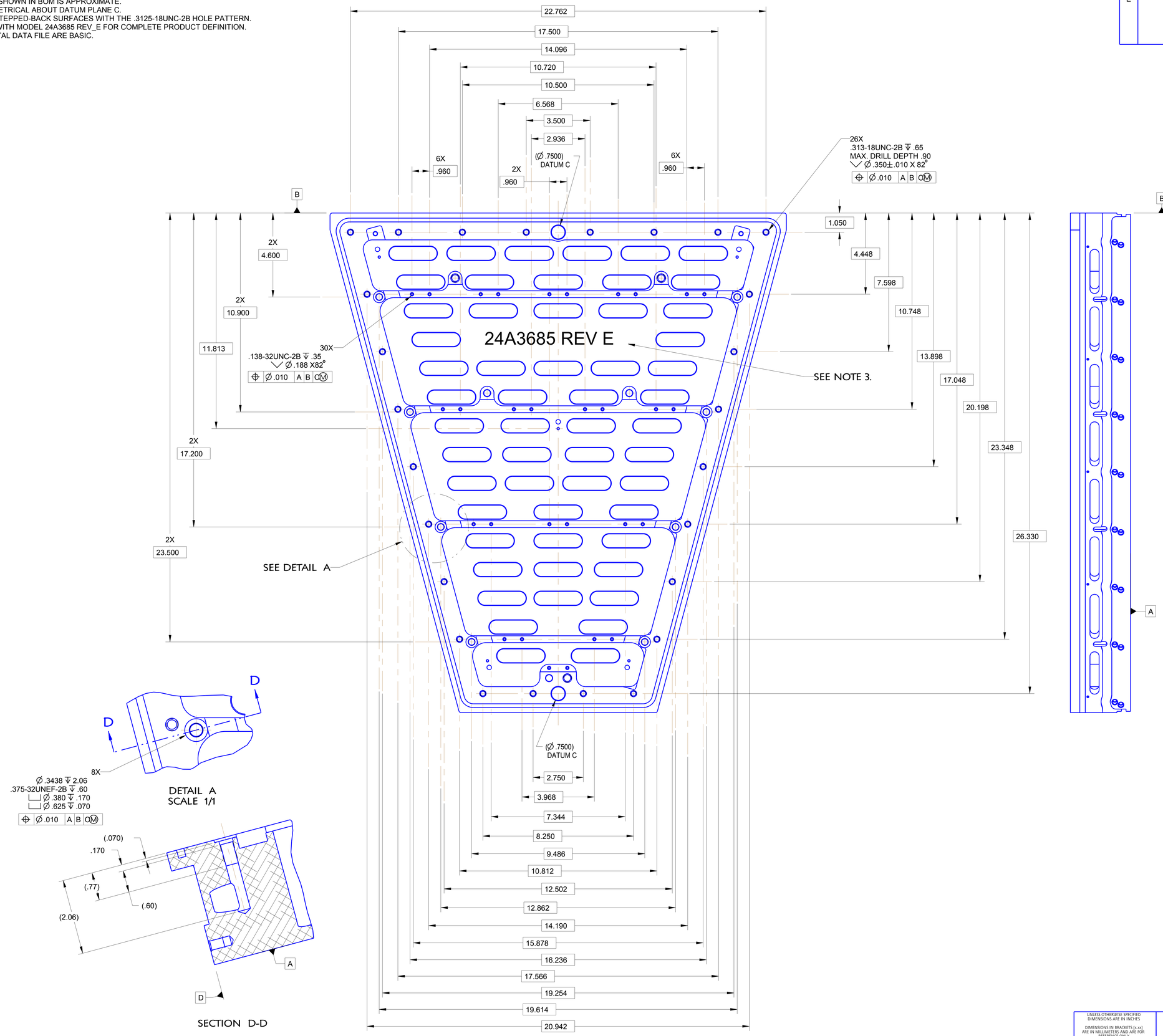
NOTES:
1.MATERIAL: ALUM. ALLOY 6061-T651 per ASTM B209, KAISER ALUMINUM PRECISION PLATE OR ALCOA TYPE 200 WROUGHT TOOLING PLATE.
2.MACHINING VENDOR TO FURNISH A COPY OF THE PLATE CERTIFICATION.
3.STEEL STAMP PART WITH DRAWING NUMBER & REVISION LETTER, (24A3685 REV.E), WITH .375" CHARACTERS IN ACCORDANCE WITH MIL-STD-130. LOCATE APPROXIMATELY WHERE SHOWN.
4.TAG WITH DRAWING NUMBER & REVISION LETTER IN ACCORDANCE WITH MIL-STD-130.
5.WEIGHT OF PART MACHINED AS SHOWN IN BOM IS APPROXIMATE.
6."BREAK-OUT POINTS" ARE SYMMETRICAL ABOUT DATUM PLANE C.
7.DATUM PLANES D & E ARE THE STEPPED-BACK SURFACES WITH THE .3125-18UNC-2B HOLE PATTERN.
8.THIS DRAWING SHALL BE USED WITH MODEL 24A3685 REV_E FOR COMPLETE PRODUCT DEFINITION. VALUES QUERIED FROM 3-D DIGITAL DATA FILE ARE BASIC.

REVISIONS						
REV.	ECN NO.	DESCRIPTION	BY	DATE	CKR	APP
E		RECONSTRUCTED MODEL & DRAWING USING PTC CREO 2.0 PARAMETRIC. REVISED DIMENSIONING SCHEME TO ASME Y14.5-2009 & CONVENTIONS FROM OUTER SECTOR LBL DRAWING 24A392G. ADDED MISSING DIMENSIONS IN ORIGINAL LBL DRAWING 24A3685 REV.D. MOVED 55 SLOTS ON DATUM A TOWARD NARROW END "BOTTOM" OF SECTOR. ADDED WIRE ACCESS GROOVES & TAPPED HOLES ADJACENT TO PAD PLANE AT TOP & BOTTOM OF SECTOR TO ACCOMMODATE PCB WALLS BETWEEN INNER & OUTER SECTORS. NOTE 10X .112-40UNC.. WAS 6X, SHEET 3, ZONE E2.	JF	1/27/2016 2/22/2016	RS	



DETAIL A
SCALE 1/1

SECTION D-D

Do Not Scale Drawing

24A3816	1
NEXT ASSEMBLY	QTY.
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
DIMENSIONS IN BRACKETS [x.xx] ARE IN MILLIMETERS AND ARE FOR REFERENCE ONLY
INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.5-2009
DECIMAL TOLERANCES X. ± .060 X.X ± 0.30 X.XX ± 0.015 X.XXX ± 0.005
ANGULAR TOLERANCE ± 0.5°
BREAK EDGES & SHARP CORNERS .005 MIN. TO .030 MAX
FINISH 125
THIRD ANGLE PROJECTION

BROOKHAVEN NATIONAL LABORATORY

DRAWN BY	J. FARRELL	Jan-20-16
CHECKED BY	R. SOJA	
ENGINEER	R. SHARMA	
ENGR MGR		
CHIEF M.E.		
Q.A.	-	
WBS#		

STAR DRAWING NUMBER: TPC350-E-1

RHIC-STAR-TPC
SECTOR
INNER SECTOR STRONGBACK

SIZE	LBL DRAWING NUMBER	REV
E	LBL DRWG 24A3685	E

ESH&Q RISK LEVEL: A-3 | SCALE: 1/2 | WEIGHT: lbs 48.174 | SHEET: 1/4

Produced with PTC Creo Parametric 2.0

DETAIL B
SCALE 1/1

DETAIL M
5X
SCALE 2/1

SECTION C-C

DETAIL C
SCALE 1/1

SECTION A-A

SECTION F-F

DETAIL D
SCALE 1/1

SECTION A-A

DETAIL E
2X
SCALE 1/1

SECTION B-B

SECTION D-D

SECTION E-E

DETAIL F
SCALE 1/1

Do Not Scale Drawing

24A3816	1
NEXT ASSEMBLY	QTY.
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
DIMENSIONS IN BRACKETS [x.xx] ARE IN MILLIMETERS AND ARE FOR REFERENCE ONLY
INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.5-2009
DECIMAL TOLERANCES X ± .060, X.X ± 0.30, X.XX ± 0.015, X.XXX ± 0.005
ANGULAR TOLERANCE ± 0.5°
FINISH 125
BREAK EDGES & BURR CORNERS .005 MIN. TO .020 MAX.
THIRD ANGLE PROJECTION

BROOKHAVEN NATIONAL LABORATORY
Managed by Brookhaven Science Associates for the U.S. Department of Energy under DE-SC0012704

DRAWN BY	J. FARRELL	Jan-20-16
CHECKED BY	R. SOJA	
ENGINEER	R. SHARMA	
ENGR MGR		
CHIEF M.E.		
Q.A.		
WBS#		

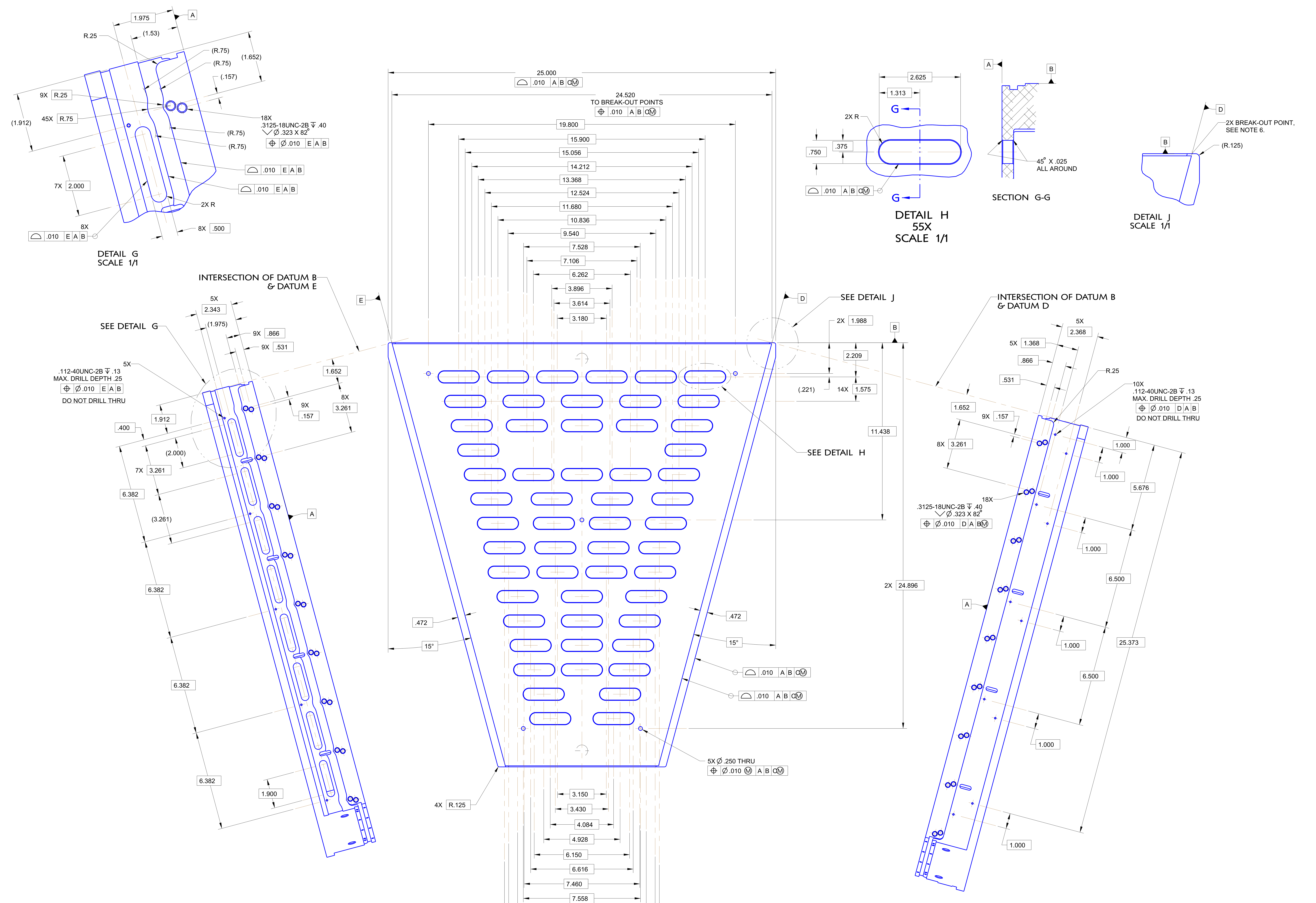
STAR DRAWING NUMBER: TPC350-E-1

RHIC-STAR-TPC
SECTOR
INNER SECTOR STRONGBACK

SIZE: E | LBL DRAWING NUMBER: LBL DRWG 24A3685 | REV: E

ESH&Q RISK LEVEL: A-3 | SCALE: 1/2 | WEIGHT: lbs 48.174 | SHEET: 2/4

Produced with PTC Creo Parametric 2.0



Do Not Scale Drawing

24A3816	1
NEXT ASSEMBLY	QTY.
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

DIMENSIONS IN BRACKETS [x.xx] ARE IN MILLIMETERS AND ARE FOR REFERENCE ONLY

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.5-2009

DECIMAL TOLERANCES: X. ± .060; X.X ± 0.30; X.XX ± 0.015; X.XXX ± 0.005

ANGULAR TOLERANCE ± 0.5°

FINISH 125

BREAK EDGES & SHARP CORNERS .005 MIN. TO .030 MAX.

THIRD ANGLE PROJECTION

BROOKHAVEN NATIONAL LABORATORY
managed by Brookhaven Science Associates for the U.S. Department of Energy
Upton, NY 11973

DRAWN BY	J. FARRELL	Jan-20-16
CHECKED BY	R. SOJA	
ENGINEER	R. SHARMA	
ENGR MGR		
CHIEF M.E.		
Q.A.	-	
WBS#		

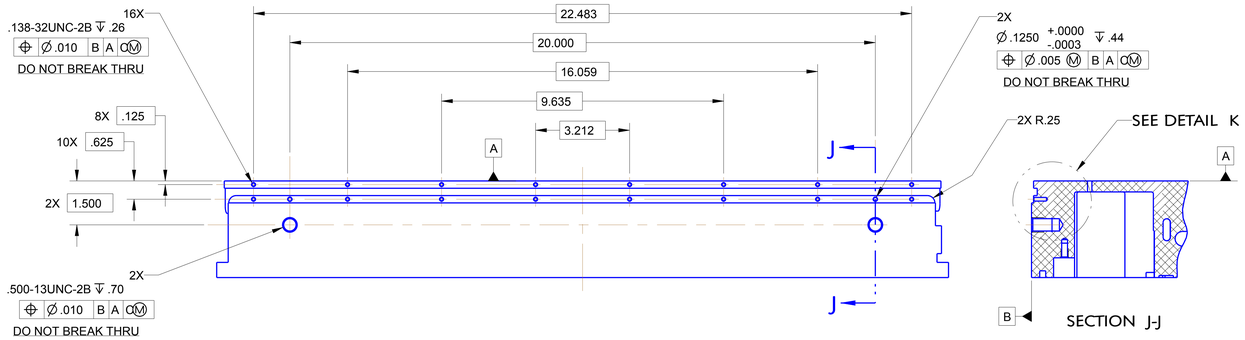
STAR DRAWING NUMBER: TPC350-E-1

RHIC-STAR-TPC
SECTOR
INNER SECTOR STRONGBACK

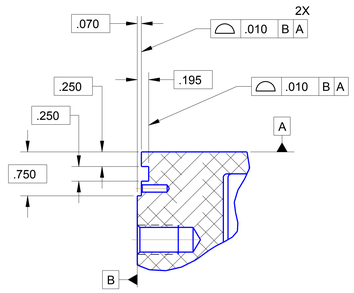
SIZE: E | LBL DRAWING NUMBER: LBL DRWG 24A3685 | REV. E

ESH&Q RISK LEVEL A-3 | SCALE: 1/2 | WEIGHT: lbs 48.174 | SHEET: 3/4

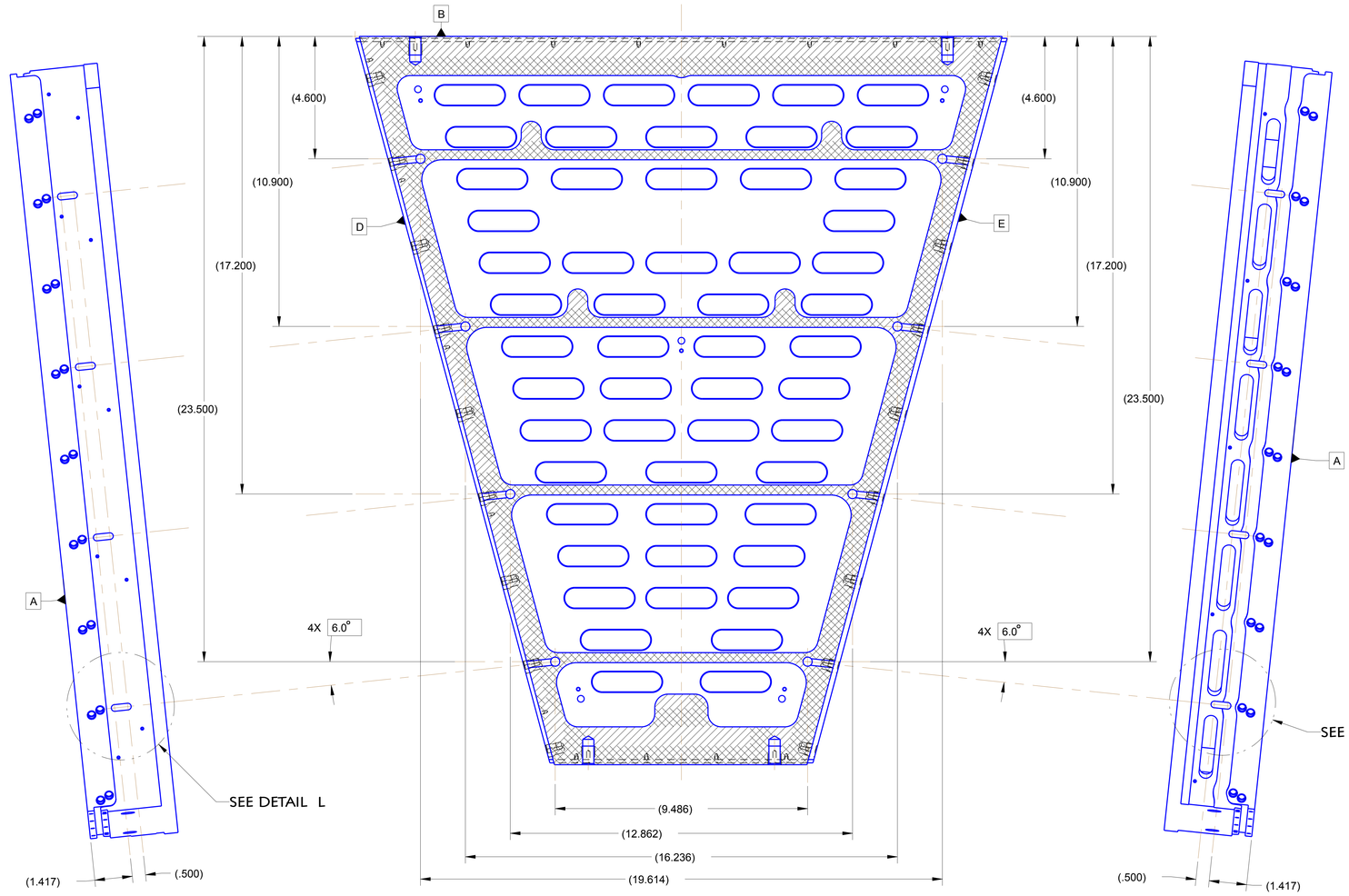
Produced with PTC Creo Parametric 2.0



SECTION J-J



DETAIL K
SCALE 1/1



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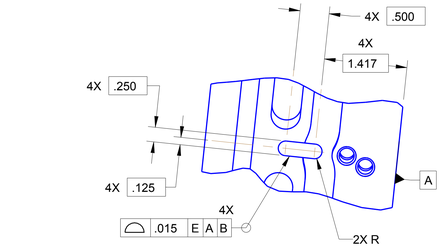
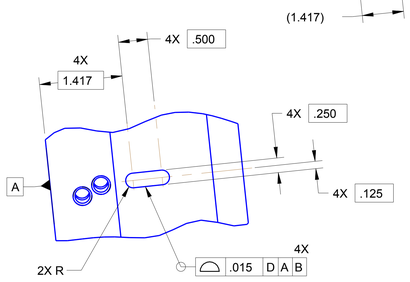
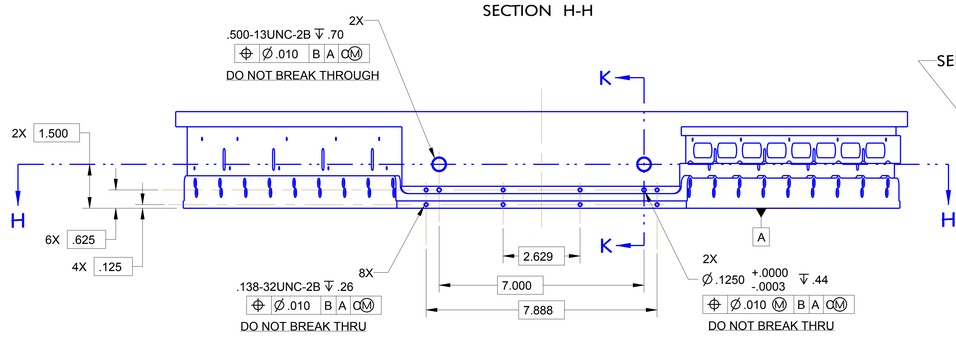
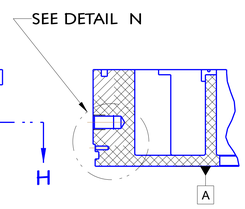


DETAIL M
SCALE 1/1

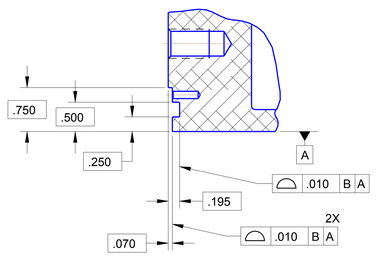


DETAIL L
SCALE 1/1





SECTION K-K



DETAIL N
SCALE 1/1

Do Not Scale Drawing

24A3816	1
NEXT ASSEMBLY	QTY.
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
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INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.5-2009
DECIMAL TOLERANCES X.X ± .050, X.XX ± .010, X.XXX ± .005
ANGULAR TOLERANCE ± 0.5°
BREAK EDGES & SHARP CORNERS .005 MIN. TO .020 MAX.
FINISH 125
THIRD ANGLE PROJECTION

BROOKHAVEN NATIONAL LABORATORY
Managed and Operated by Brookhaven Science Associates, LLC for the U.S. Department of Energy

DRAWN BY	J. FARRELL	Jan-20-16
CHECKED BY	R. SOJA	
ENGINEER	R. SHARMA	
ENGR MGR		
CHIEF M.E.		
Q.A.		
WBS#		

STAR DRAWING NUMBER: TPC350-E-1

RHIC-STAR-TPC
SECTOR
INNER SECTOR STRONGBACK

SIZE: E | LBL DRAWING NUMBER: LBL DRWG 24A3685 | REV: E

ESH&Q RISK LEVEL: A-3 | SCALE: 1/2 | WEIGHT: lbs 48.174 | SHEET: 4/4

Produced with PTC Creo Parametric 2.0