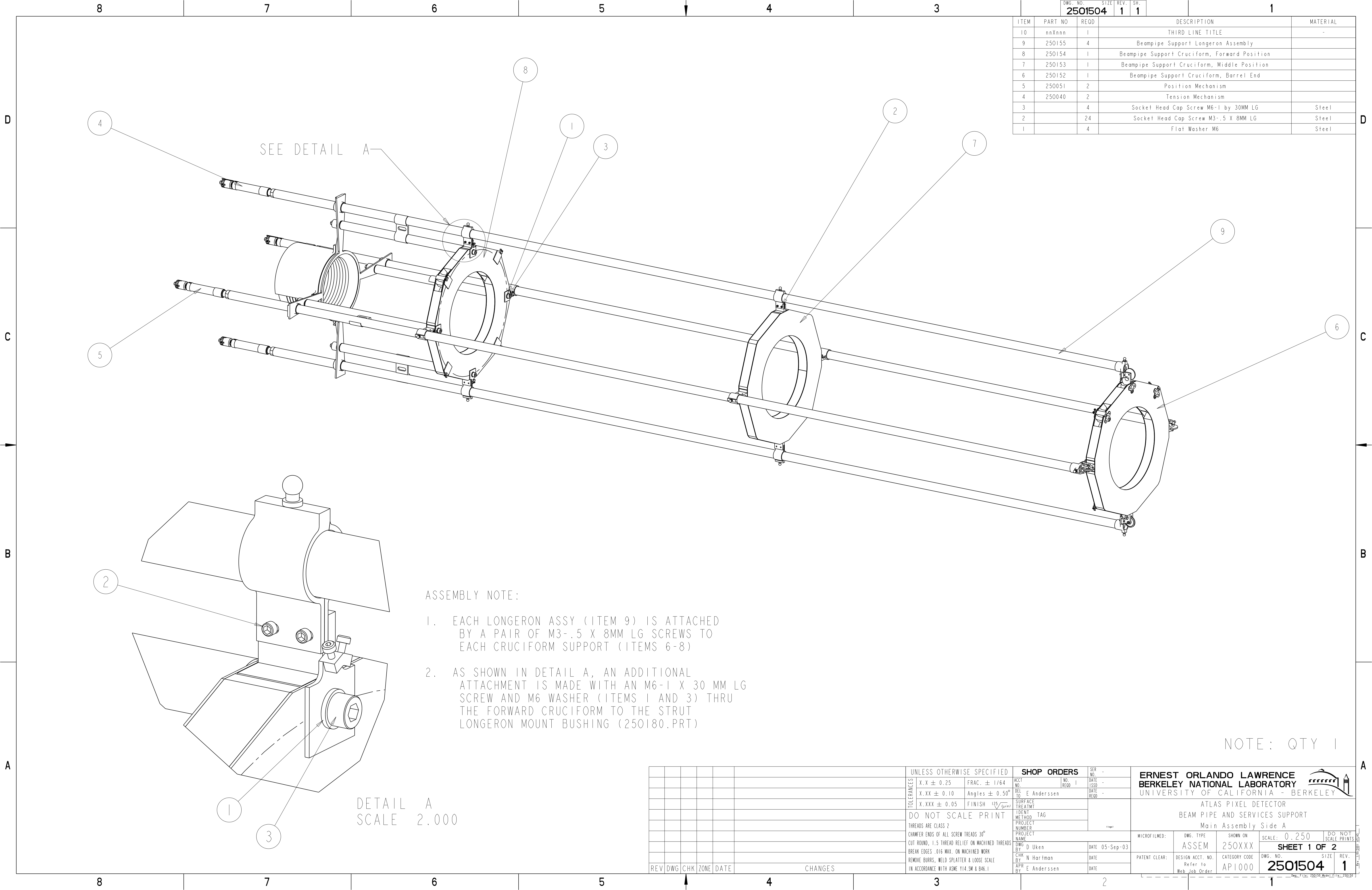




DWG. NO.		SIZE	REV.	SH.	1	
2501504			1	1		
ITEM	PART NO	REQD	DESCRIPTION			MATERIAL
10	nnXann	1	THIRD LINE TITLE			-
9	250155	4	Beampipe Support Longeron Assembly			
8	250154	1	Beampipe Support Cruciform, Forward Position			
7	250153	1	Beampipe Support Cruciform, Middle Position			
6	250152	1	Beampipe Support Cruciform, Barrel End			
5	250051	2	Position Mechanism			
4	250040	2	Tension Mechanism			
3		4	Socket Head Cap Screw M6-1 by 30MM LG			Steel
2		24	Socket Head Cap Screw M3-.5 X 8MM LG			Steel
1		4	Flat Washer M6			Steel

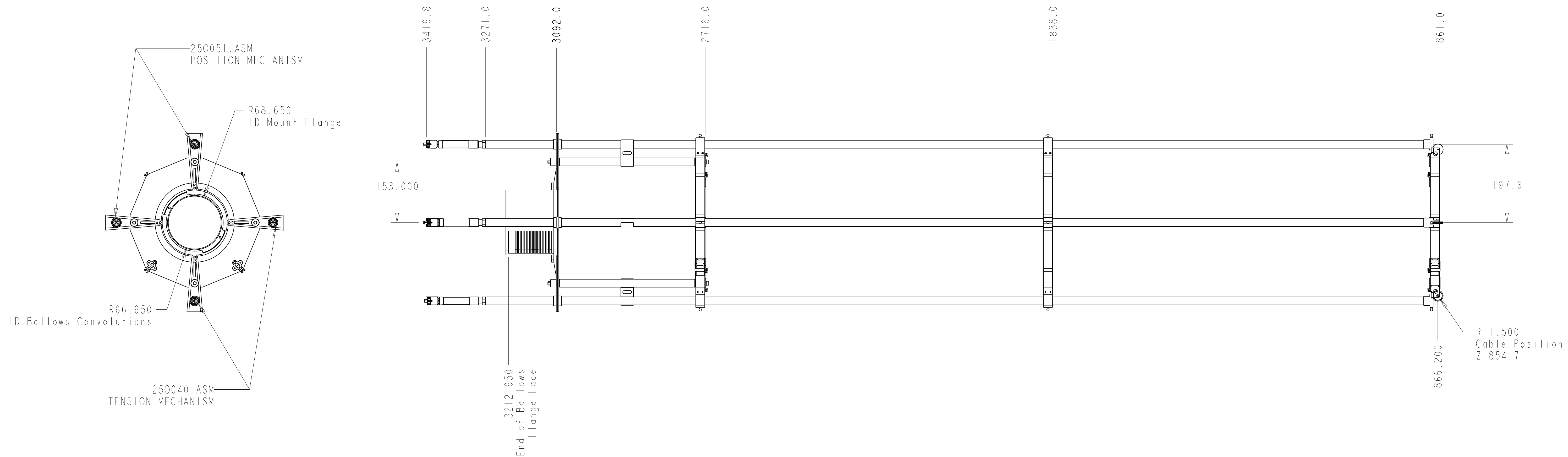
ASSEMBLY NOTE :

1. EACH LONGERON ASSY (ITEM 9) IS ATTACHED BY A PAIR OF M3-.5 X 8MM LG SCREWS TO EACH CRUCIFORM SUPPORT (ITEMS 6-8)
2. AS SHOWN IN DETAIL A, AN ADDITIONAL ATTACHMENT IS MADE WITH AN M6-1 X 30 MM LG SCREW AND M6 WASHER (ITEMS 1 AND 3) THRU THE FORWARD CRUCIFORM TO THE STRUT LONGERON MOUNT BUSHING (250180.PRT)

NOTE : QTY 1

DETAIL A
SCALE 2.000

				UNLESS OTHERWISE SPECIFIED				SHOP ORDERS		SER NO. -
				TOLERANCES	X.X ± 0.25	FRAC. ± 1/64	ACCT NO.	NO. REQD	DATE ISSD	DATE RECD
					X.XX ± 0.10	Angles ± 0.50°	DEL TO	E Anderssen		
					X.XXX ± 0.05	FINISH 125 $\sqrt{\mu\text{in}}$	SURFACE TREATMT			
				DO NOT SCALE PRINT				IDENT METHOD TAG		
				THREADS ARE CLASS 2				PROJECT NUMBER		
				CHAMFER ENDS OF ALL SCREW TREADS 30°				PROJECT NAME		
				CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS				DWG BY: D Uken	DATE: 05-Sep-03	
				BREAK EDGES .016 MAX. ON MACHINED WORK				CHK BY: N Hartman	DATE	
				REMOVE BURRS, WELD SPATTER & LOOSE SCALE				APR BY: E Anderssen	DATE	
				IN ACCORDANCE WITH ASME Y14.5M & B46.1						
REV	DWG	CHK	ZONE	DATE	CHANGES					
								ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY		
								ATLAS PIXEL DETECTOR BEAM PIPE AND SERVICES SUPPORT		
								Main Assembly Side A		
								MICROFILMED:	DWG. TYPE ASSEM	SHOWN ON 250XXX
								PATENT CLEAR:	DESIGN ACCT. NO. Refer to Web Job Order	CATEGORY CODE API000
								SCALE: 0.250	DO NOT SCALE PRINTS	
								SHEET 1 OF 2		
								DWG. NO.	SIZE	REV.
								2501504	1	1



- R68.650
ID Mount Flange

R66.650
ID Bellows Convolutions

250040.ASM-
TENSION MECHANISM

3212.650
End of Bellows
Flange Face

```

R11.500
Cable Position
Z 854.7

```

[illegible]

SHOP ORDERS	SER NO. -
-------------	--------------

ACCT NO.	NO. REQD	I	DATE ISSD	-
DEL TO	E Anderssen		DATE REQD	-
SURFACE TREATMT				
IDENT METHOD	TAG			
PROJECT NUMBER				
PROJECT NAME				
DWG BY	D Uken		DATE	14-Oct-01
CHK BY	N Horlman		DATE	
APR BY	E Anderssen		DATE	

ERNEST ORLANDO LAWRENCE
BERKELEY NATIONAL LABORATORY
UNIVERSITY OF CALIFORNIA - BERKELEY

ATLAS PIXEL DETECTOR
BEAM PIPE AND SERVICES SUPPORT
Main Assembly Side A

MICROFILMED:	DWG. TYPE ASSEM	SHOWN ON 250XXX	SCALE: 0.200	DO NOT SCALE PRINT
			SHEET 2 OF 2	
PATENT CLEAR:	DESIGN ACCT. NO. Refer to Web Job Order	CATEGORY CODE API000	DWG. NO. 2501504	SIZE 1

PATENT CLEAR:	DESIGN ACCT. NO. Refer to Web Job Order	CATEGORY CODE API000	DWG. NO. 2501504	SIZE	REV. 1
---------------	---	-------------------------	----------------------------	------	------------------