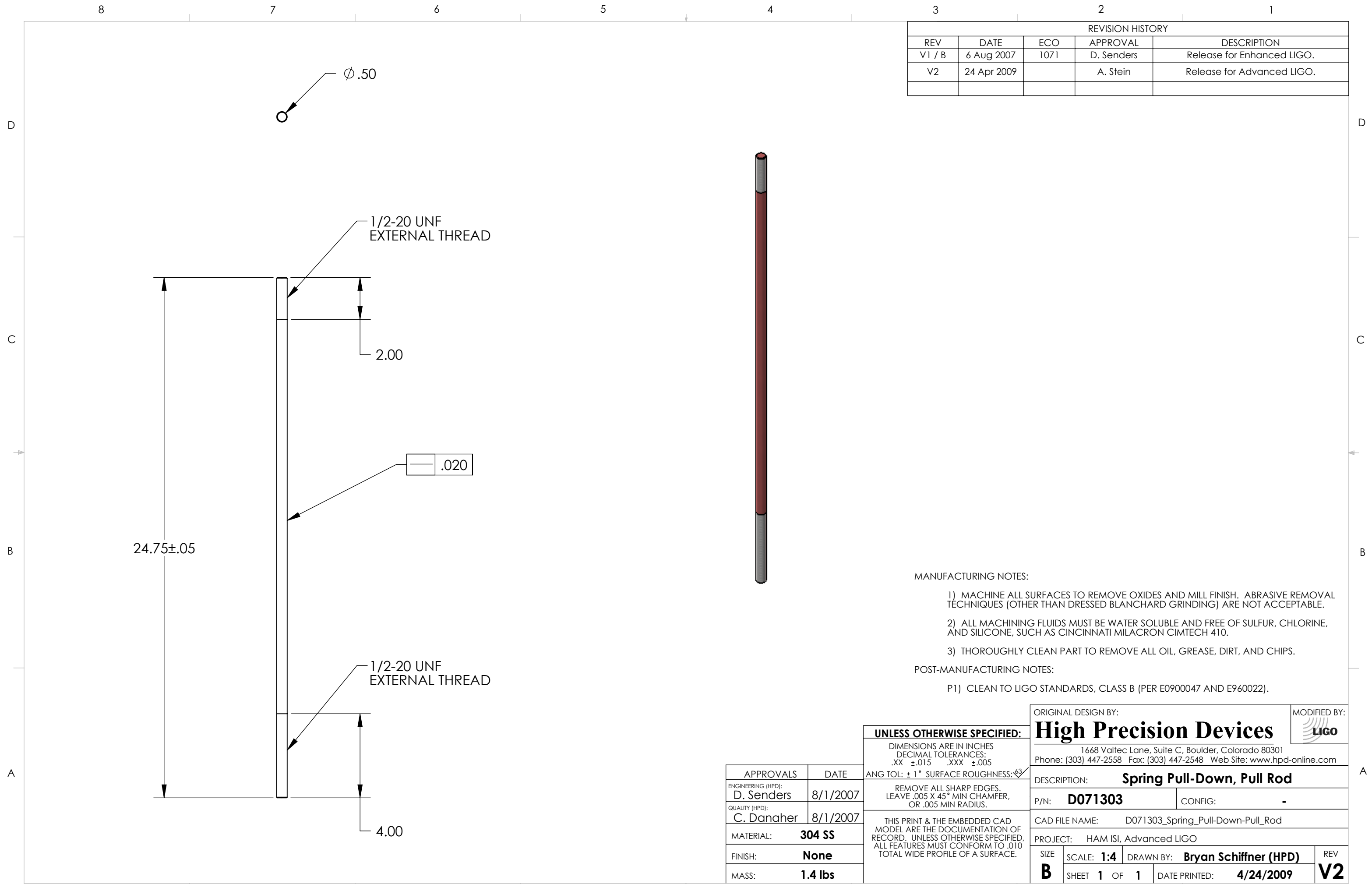


REVISION HISTORY				
REV	DATE	ECO	APPROVAL	DESCRIPTION
V1 / B	6 Aug 2007	1071	D. Senders	Release for Enhanced LIGO.
V2	24 Apr 2009		A. Stein	Release for Advanced LIGO.



24.75±.05

1/2-20 UNF
EXTERNAL THREAD

2.00

.020

1/2-20 UNF
EXTERNAL THREAD

4.00

MANUFACTURING NOTES:

- 1) MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. ABRASIVE REMOVAL TECHNIQUES (OTHER THAN DRESSED BLANCHARD GRINDING) ARE NOT ACCEPTABLE.
- 2) ALL MACHINING FLUIDS MUST BE WATER SOLUBLE AND FREE OF SULFUR, CHLORINE, AND SILICONE, SUCH AS CINCINNATI MILACRON CIMTECH 410.
- 3) THOROUGHLY CLEAN PART TO REMOVE ALL OIL, GREASE, DIRT, AND CHIPS.

POST-MANUFACTURING NOTES:

- P1) CLEAN TO LIGO STANDARDS, CLASS B (PER E0900047 AND E960022).

APPROVALS	DATE
ENGINEERING (HPD): D. Senders	8/1/2007
QUALITY (HPD): C. Danaher	8/1/2007
MATERIAL:	304 SS
FINISH:	None
MASS:	1.4 lbs

UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN INCHES
 DECIMAL TOLERANCES:
 .XX ±.015 .XXX ±.005
 ANG TOL: ± 1° SURFACE ROUGHNESS: 63
 REMOVE ALL SHARP EDGES.
 LEAVE .005 X 45° MIN CHAMFER,
 OR .005 MIN RADIUS.
 THIS PRINT & THE EMBEDDED CAD
 MODEL ARE THE DOCUMENTATION OF
 RECORD. UNLESS OTHERWISE SPECIFIED,
 ALL FEATURES MUST CONFORM TO .010
 TOTAL WIDE PROFILE OF A SURFACE.

ORIGINAL DESIGN BY:		High Precision Devices		MODIFIED BY:
		1668 Valtec Lane, Suite C, Boulder, Colorado 80301		
		Phone: (303) 447-2558 Fax: (303) 447-2548 Web Site: www.hpd-online.com		
DESCRIPTION: Spring Pull-Down, Pull Rod				
P/N:	D071303	CONFIG:	-	
CAD FILE NAME: D071303_Spring_Pull-Down-Pull_Rod				
PROJECT: HAM ISI, Advanced LIGO				
SIZE	SCALE: 1:4	DRAWN BY:	Bryan Schiffner (HPD)	REV
B	SHEET 1 OF 1	DATE PRINTED:	4/24/2009	V2