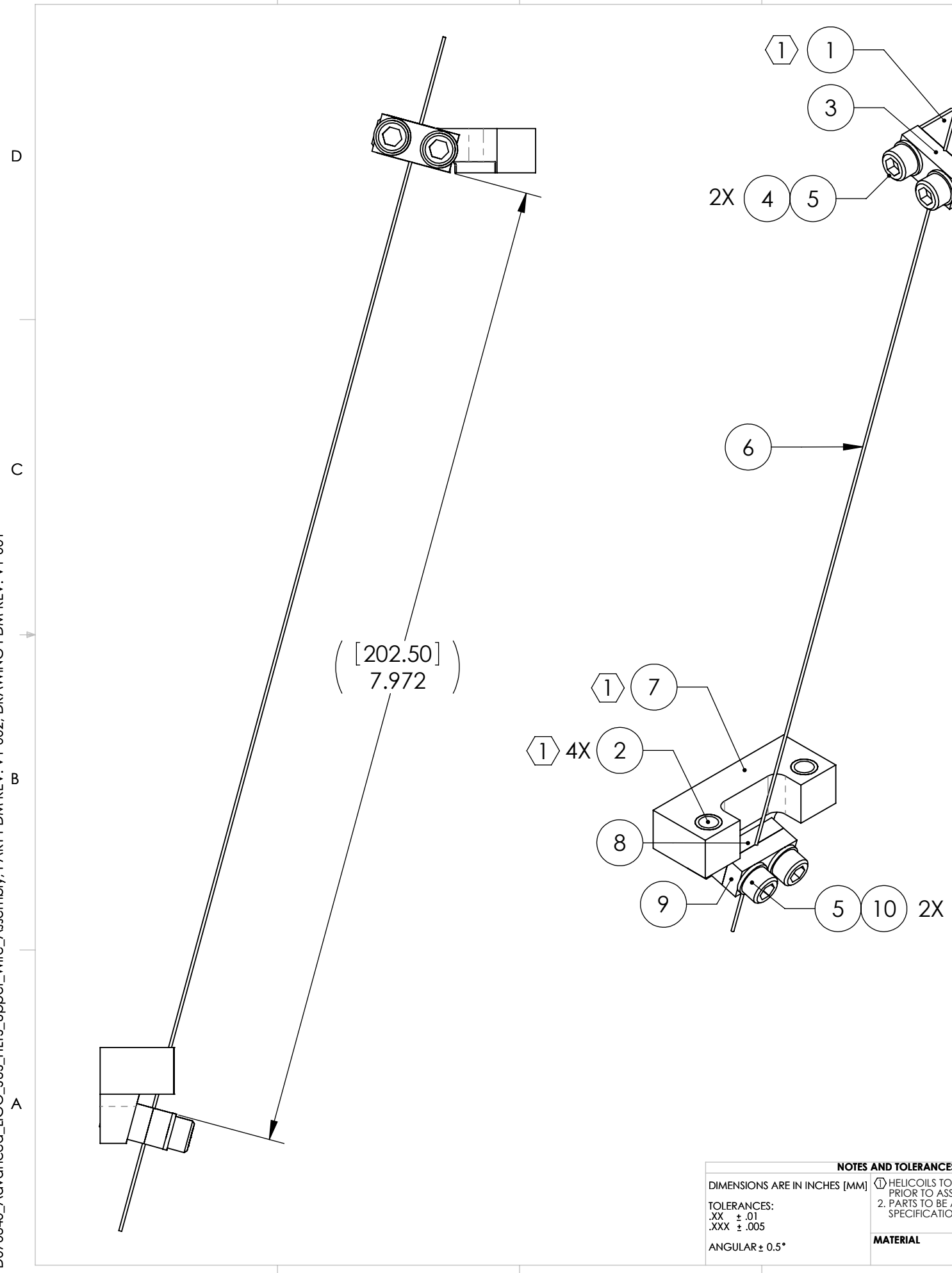


D070340\_Advanced\_LIGO\_SUS\_HLTS\_Upper\_Wire\_Assembly, PART PDM REV: V1-002, DRAWING PDM REV: V1-001

REV.	DATE	DCN #	DRAWING TREE #
v1	26 MAY 2009	E0900160	E080191
v2	09 DEC 2010	E1000849	E080191
-	-	-	-



10	-	SCREW, SOCKET HEAD CAP, #8-32 UNC-2A X 0.5625 LONG	300 SSTL	2	1	3
9	D020624	LOWER CLAMP, UPPER WIRE, OUTSIDE	304, 316 OR 302 SSTL	1	0	1
8	D020610	LOWER CLAMP, UPPER WIRE, INSIDE	304, 316 OR 302 SSTL	1	0	1
7	D020652	C-CLAMP, UPPER MASS (1)	6061-T6 Al	1	0	1
6	-	UPPER WIRE (Ø 0.024)	STEEL MUSIC WIRE	A/R	0	0
5	-	WASHER, FLAT, VENTED, #8 (U-C COMPONENTS P/N WFV-08 OR EQUIVALENT)	300 SSTL	4	1	5
4	-	SCREW, SOCKET HEAD CAP, #8-32 UNC-2A X 0.5 LONG	Ag-PLATED 300 SSTL	2	1	3
3	D070341	UPPER CLAMP, UPPER WIRE, OUTSIDE	304, 316 OR 302 SSTL	1	0	1
2	1185-2EN246	HELICOIL, #8-32 X 0.246 LONG (1)	NITRONIC 60	6	4	10
1	D020611	UPPER CLAMP, UPPER WIRE, INSIDE (1)	304, 316 OR 302 SSTL	1	0	1
ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	REQ	SPARE	TOTAL

**NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)**

(1) HELICOILS TO BE INSTALLED INTO ITEM NO. 1 AND ITEM NO. 7 BY LIGO PRIOR TO ASSEMBLY AND AFTER ALL PARTS ARE CLEANED AND BAKED.  
 2. PARTS TO BE ASSEMBLED ACCORDING TO E080208 HLTS ASSEMBLY SPECIFICATION, USING D0900594 HLTS UPPER WIRE JIG.

DIMENSIONS ARE IN INCHES [MM]  
 TOLERANCES:  
 .XX ± .01  
 .XXX ± .005  
 ANGULAR ± 0.5°

CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		<b>PART NAME</b> UPPER WIRE ASSEMBLY	
<b>SYSTEM</b> ADVANCED LIGO	<b>SUB-SYSTEM</b> SUS	<b>DESIGNER</b> D. BRIDGES	<b>DATE</b> 27 MAY 2009
<b>DRAFTER</b> D. BRIDGES	<b>CHECKER</b> B. MOORE	<b>DATE</b> 09 DEC 2010	<b>DATE</b> 10 DEC 2010
<b>FINISH</b> N/A µinch	<b>SCALE</b> 1:1	<b>PROJECTION</b> 	<b>REV.</b> v2

**ITEM NO.** N/A    **FINISH** N/A µinch    **NEXT ASSY** HLTS SUSPENSION ASSY    **SIZE DWG. NO.** B    **D070340**    **SHEET 1 OF 1**