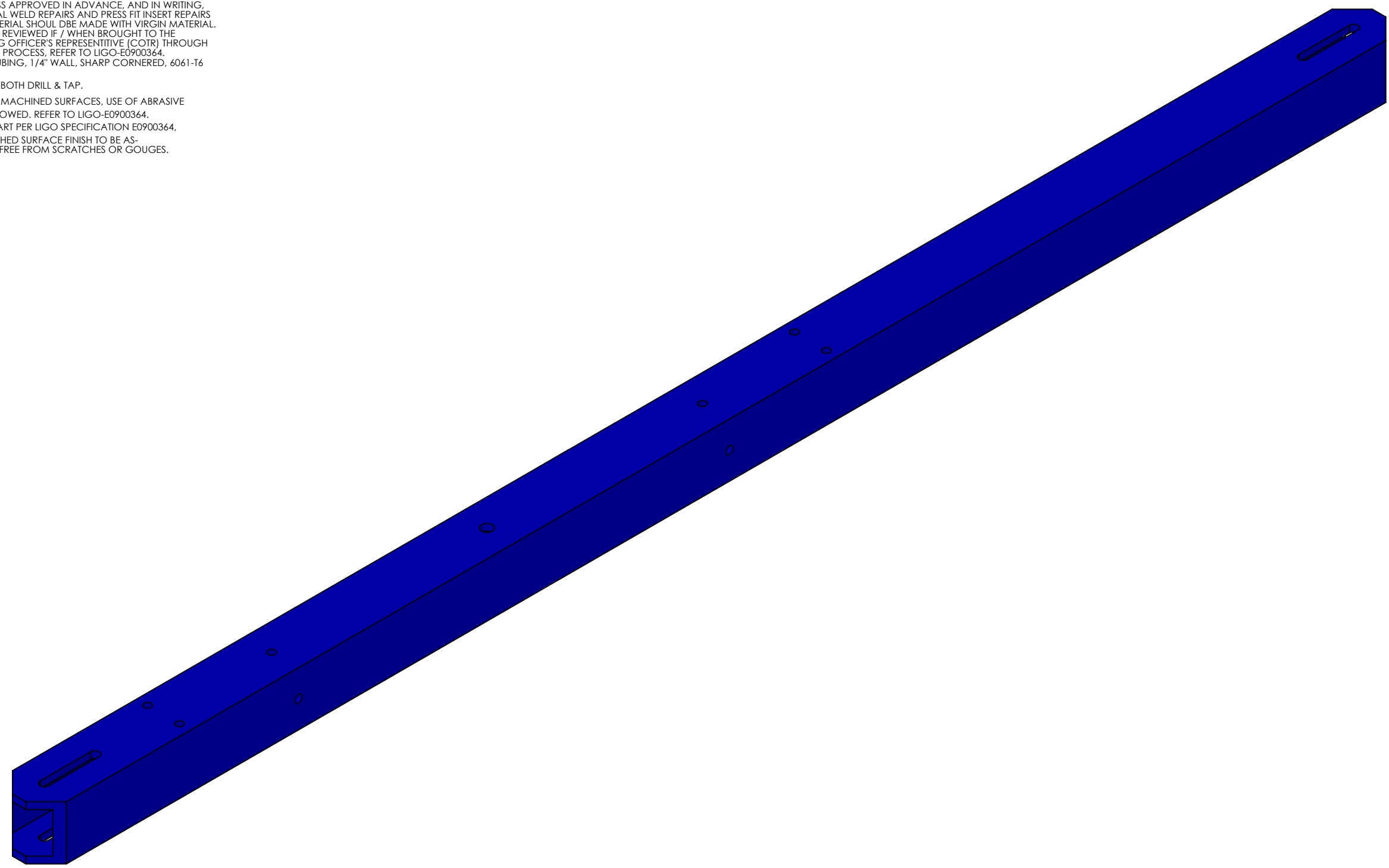


8 7 6 5 4 3 2 1

- NOTES CONTINUED:**
- ⑤ SCRIBE, ENGRAVE (A VIBRATORY TOOL MAY BE USED), LASER MARK OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR "TYPE" IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12" HIGH CHARACTERS, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX
 - 6. APPROXIMATE WEIGHT = 8.38 LB [3.80 KG].
 - 7. ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.
 - 8. NO REPAIRS SHALL BE MADE UNLESS APPROVED IN ADVANCE, AND IN WRITING, BY LIGO LABORATORY. IN GENERAL WELD REPAIRS AND PRESS FIT INSERT REPAIRS ARE NEVER ACCEPTABLE; THE MATERIAL SHOULD BE MADE WITH VIRGIN MATERIAL. SPECIAL CIRCUMSTANCES CAN BE REVIEWED IF / WHEN BROUGHT TO THE ATTENTION OF LIGO CONTRACTING OFFICER'S REPRESENTATIVE (COTR) THROUGH A MATERIAL REVIEW BOARD (MRB) PROCESS, REFER TO LIGO-E0900364.
 - ⑦ MATERIAL: 2" SEAMLESS SQUARE TUBING, 1/4" WALL, SHARP CORNERED, 6061-T6 ALUMINIUM ALLOY.
 - ⑩ TAPPED HOLES- USE .005 OVERSIZE BOTH DRILL & TAP.
 - ⑪ SPECIFIED FINISH APPLIES ONLY TO MACHINED SURFACES, USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED, REFER TO LIGO-E0900364.
 - ⑫ ELECTRO-POLISH CUT & DRILLED PART PER LIGO SPECIFICATION E0900364, SECTION 5.1.2. PRE-ELECTRO-POLISHED SURFACE FINISH TO BE AS-PROCESSED FROM MILL/SUPPLIER, FREE FROM SCRATCHES OR GOUGES.

| REV. | DATE | DCN # | DRAWING TREE # |
|------|-------------|-------------|----------------|
| v1 | 21 MAR 2011 | E1000384-v1 | - |
| - | - | - | - |
| - | - | - | - |



D1001937_CROSS BAR FOR EARTHQUAKE STOP TMS, PART PDM REV: X-053, DRAWING PDM REV: X-021

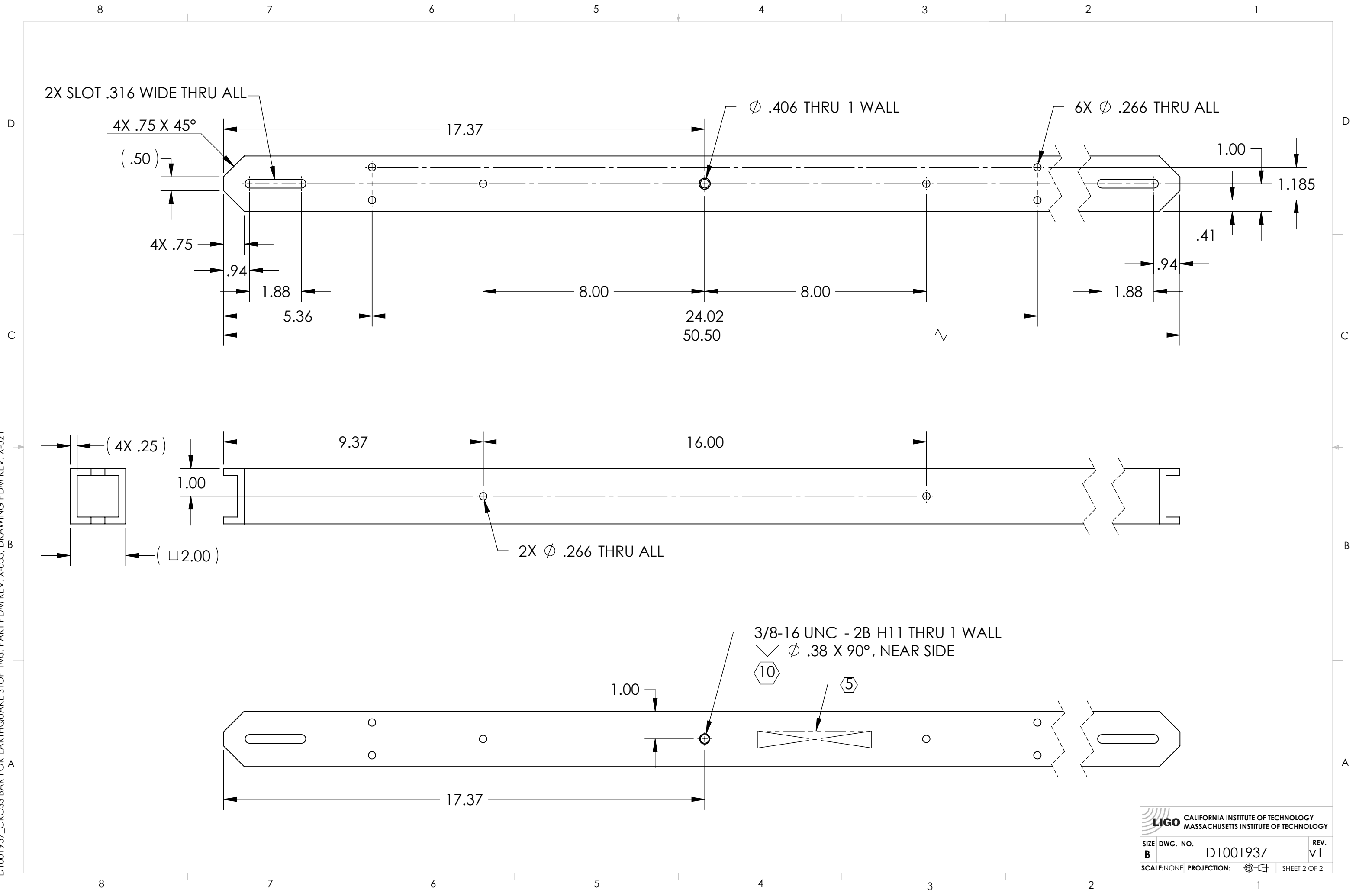
D C B A

D C B A

| | | | | | | | |
|---|--|---|--|--|--|---|--|
| <p>NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)</p> <p>DIMENSIONS ARE IN INCHES</p> <p>TOLERANCES: .XX ± .01 .XXX ± .005</p> <p>ANGULAR ± 2.0°</p> | | <p>1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.</p> | | <p>LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY</p> | | <p>PART NAME aLIGO TMS EARTHQUAKE STOP CROSS BAR</p> | |
| <p>MATERIAL ⑦</p> | | <p>FINISH 63 μinch Ra ⑪⑫</p> | | <p>SYSTEM ADVANCED LIGO</p> | | <p>SUB-SYSTEM AOS</p> | |
| <p>DESIGNER K. MAILAND</p> | | <p>DATE 24 JUL 2010</p> | | <p>SIZE DWG. NO. B D1001937</p> | | <p>REV. v1</p> | |
| <p>DRAFTER M. MILLER</p> | | <p>DATE 21 MAR 2011</p> | | <p>CHECKER</p> | | <p>SCALE: NONE PROJECTION: </p> | |
| <p>APPROVAL</p> | | <p>NEXT ASSY D1001781</p> | | <p>SHEET 1 OF 2</p> | | | |

8 7 6 5 4 3 2 1

D1001937_CROSS BAR FOR EARTHQUAKE STOP TMS, PART PDM REV: X-053, DRAWING PDM REV: X-021



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 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

| | | |
|-------------|-------------|--------------|
| SIZE | DWG. NO. | REV. |
| B | D1001937 | v1 |
| SCALE: NONE | PROJECTION: | SHEET 2 OF 2 |