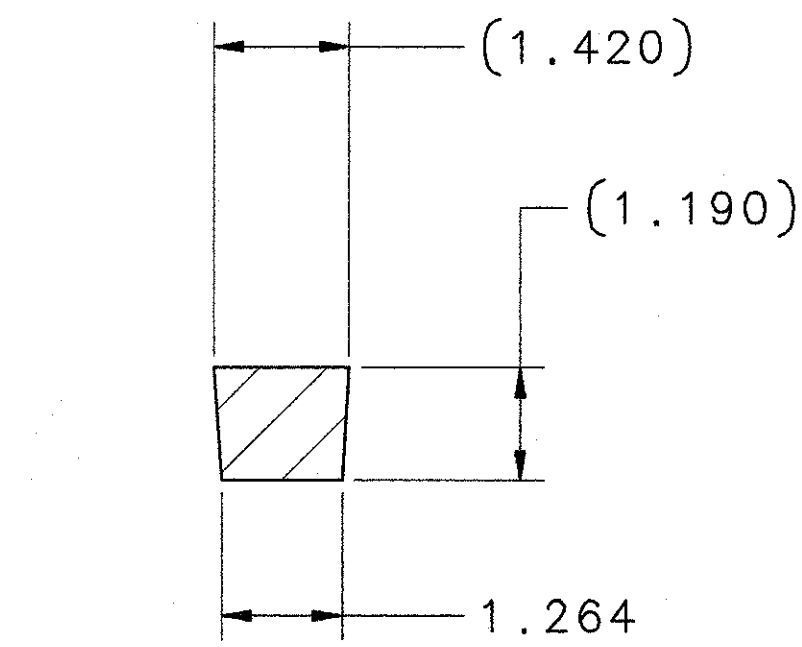
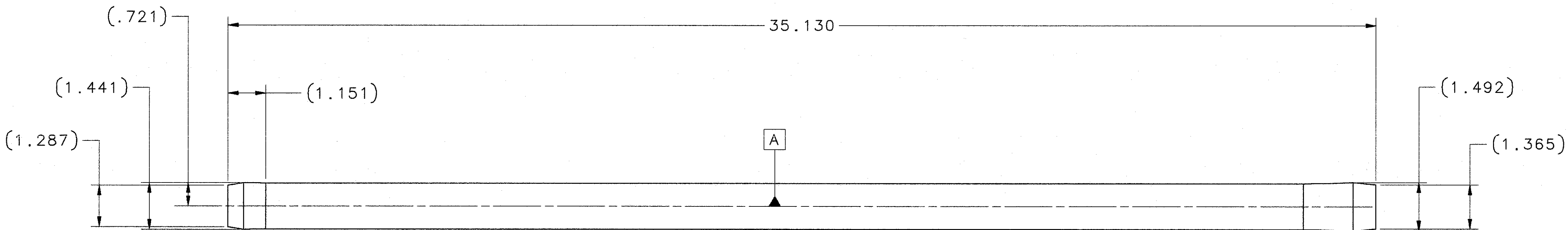
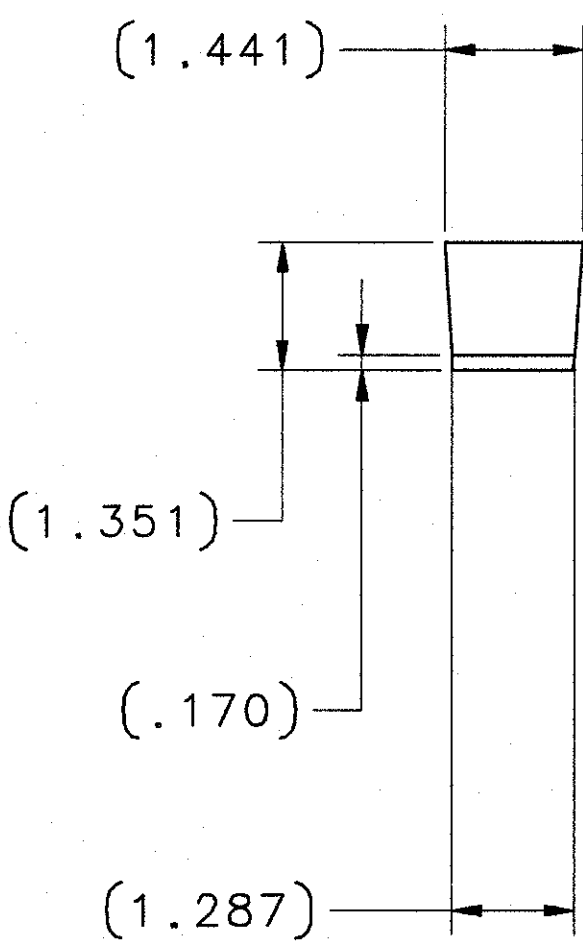


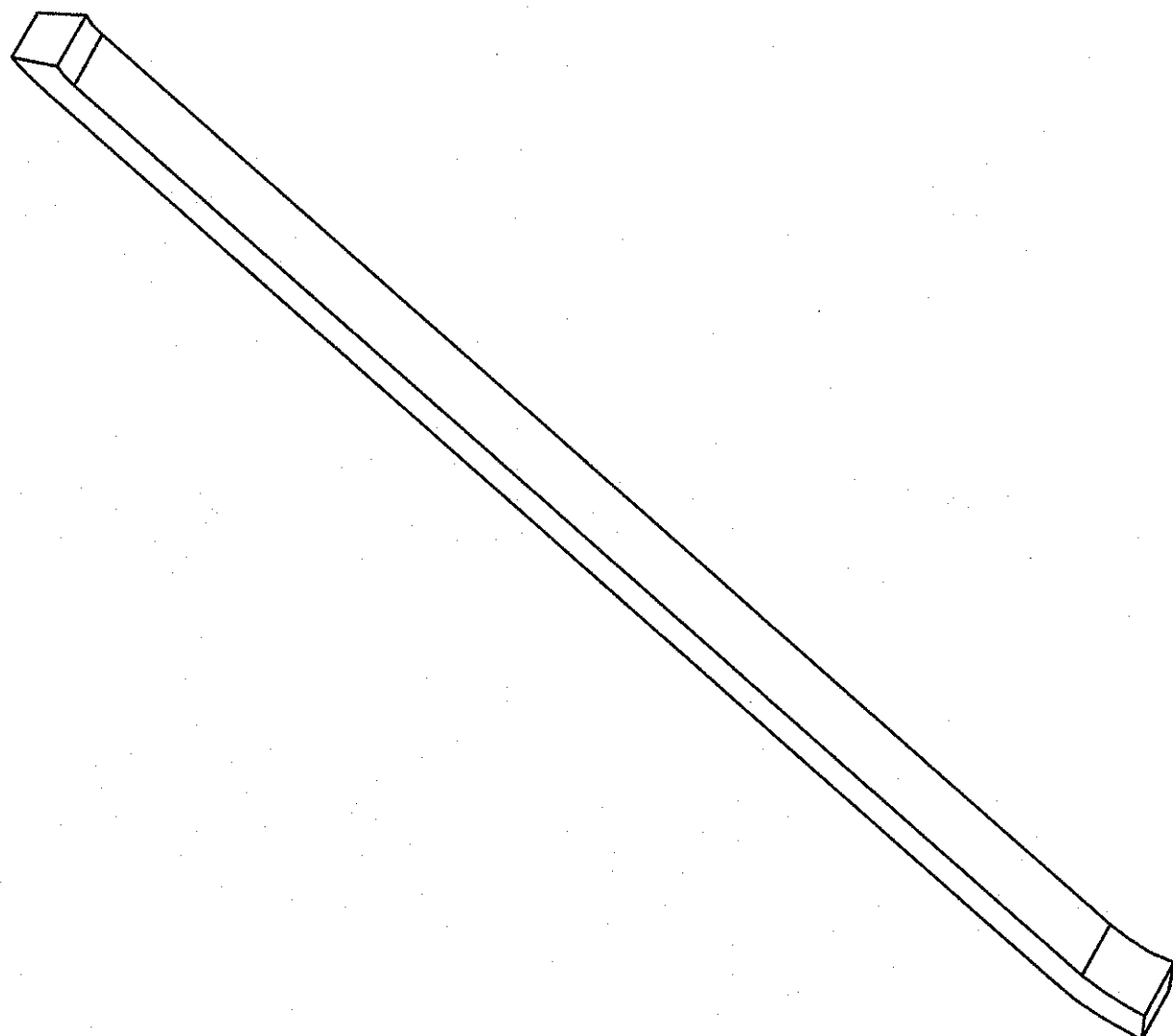
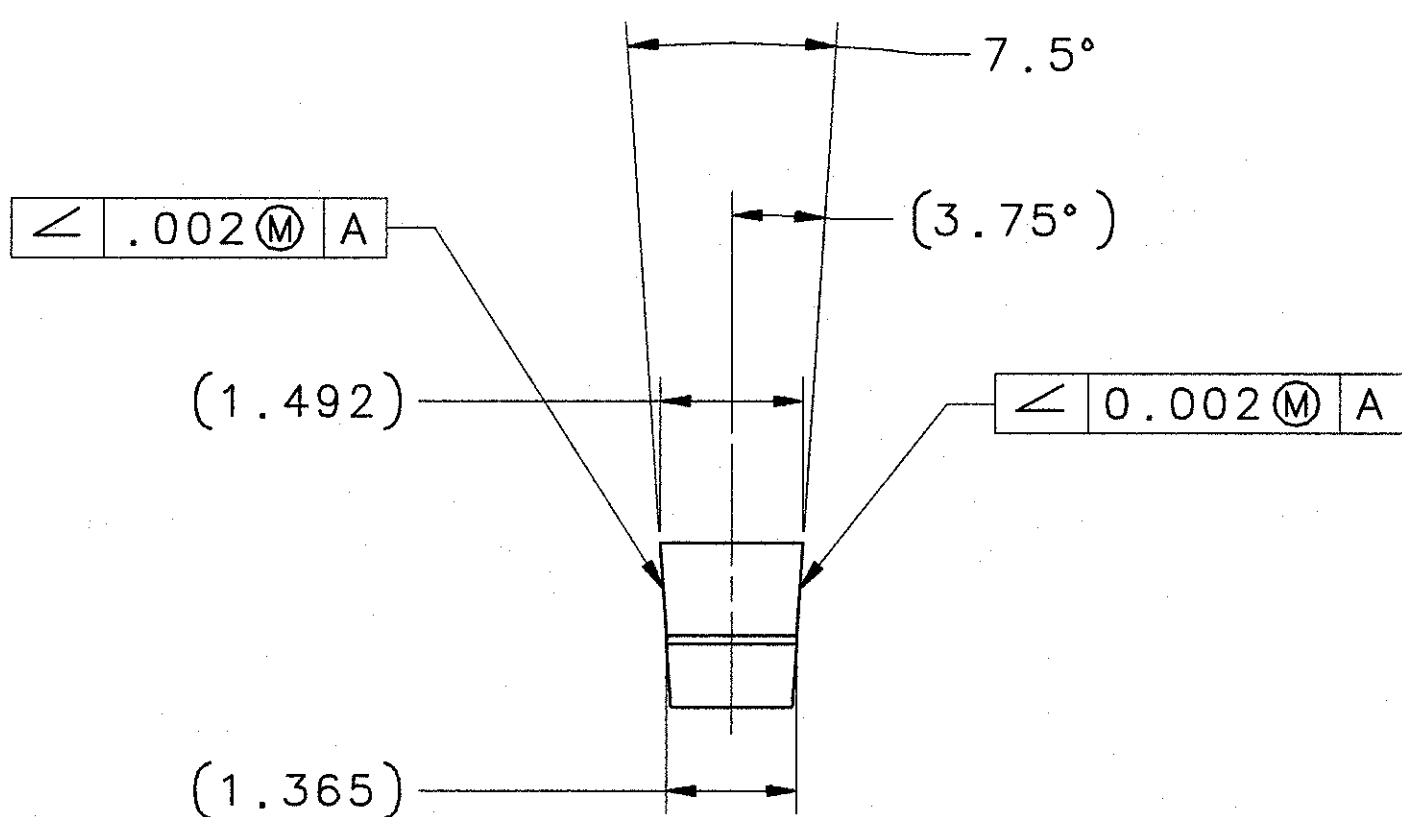
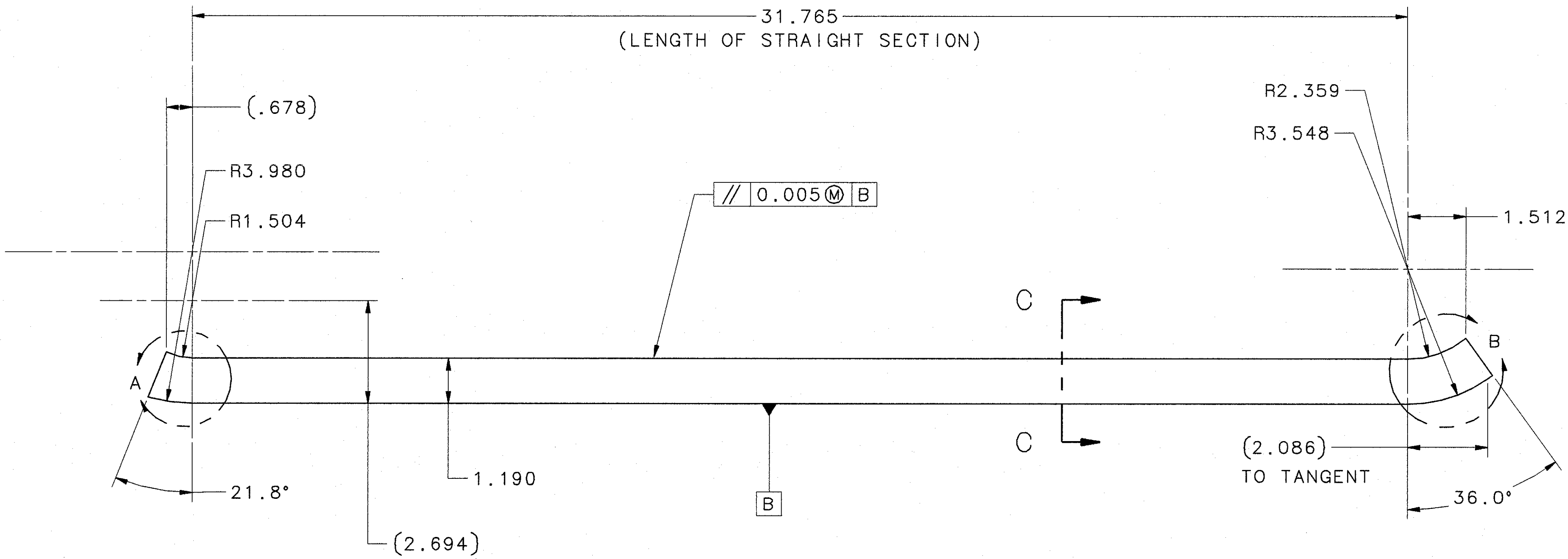
REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	A	DIMENSIONS REARRANGED FOR CLARITY & CONSISTENCY (WRT B00000-01-04-1401) NOTES CORRECTED; TYPOGRAPHICAL ERRORS NOTE#8 REPLACED BY NOTE#9	2012-03-23 C.L. WIGGINS	<i>D. H. KASHY</i>



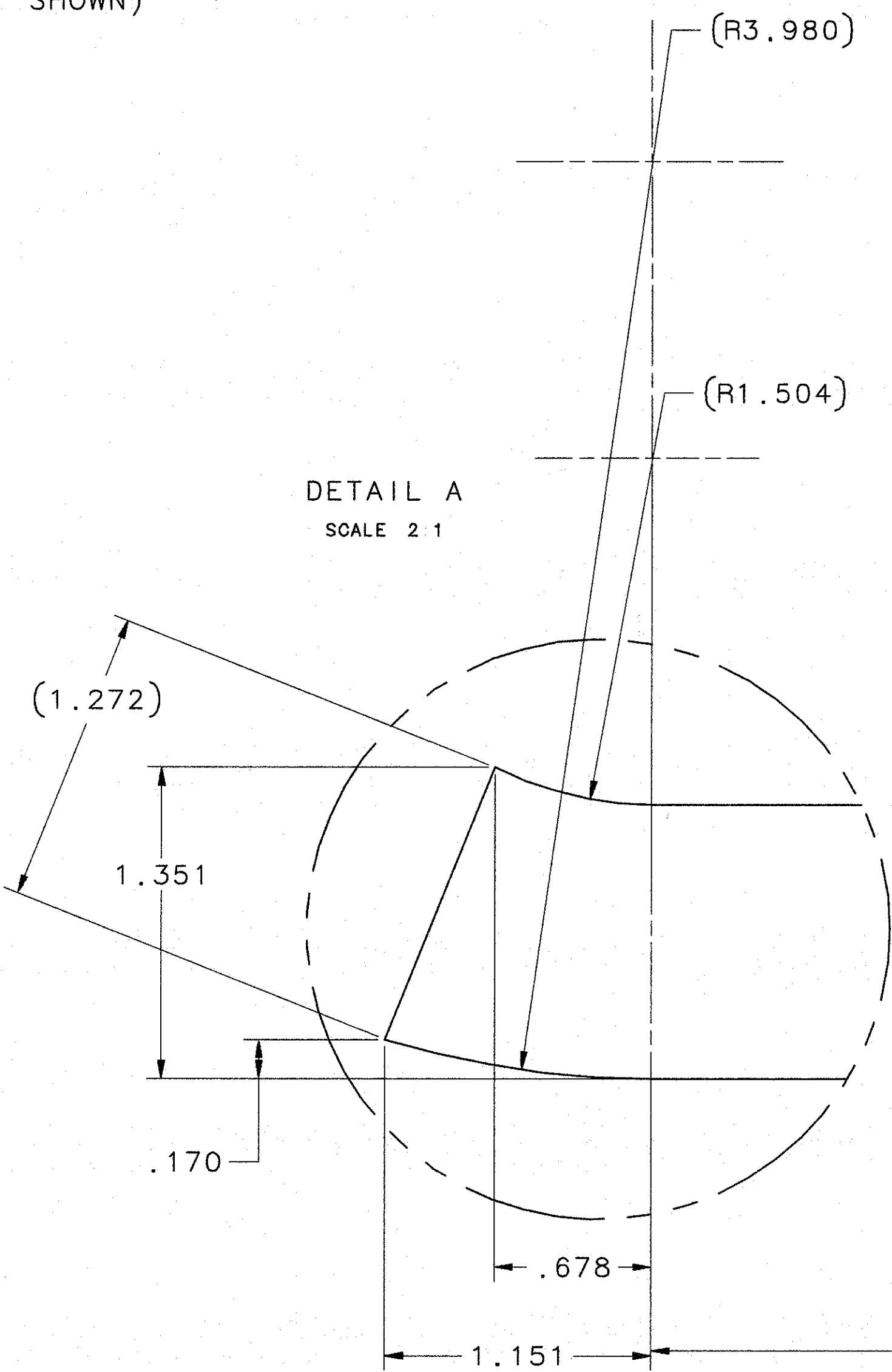
SECTION C-C  
(CROSS SECTION ONLY)



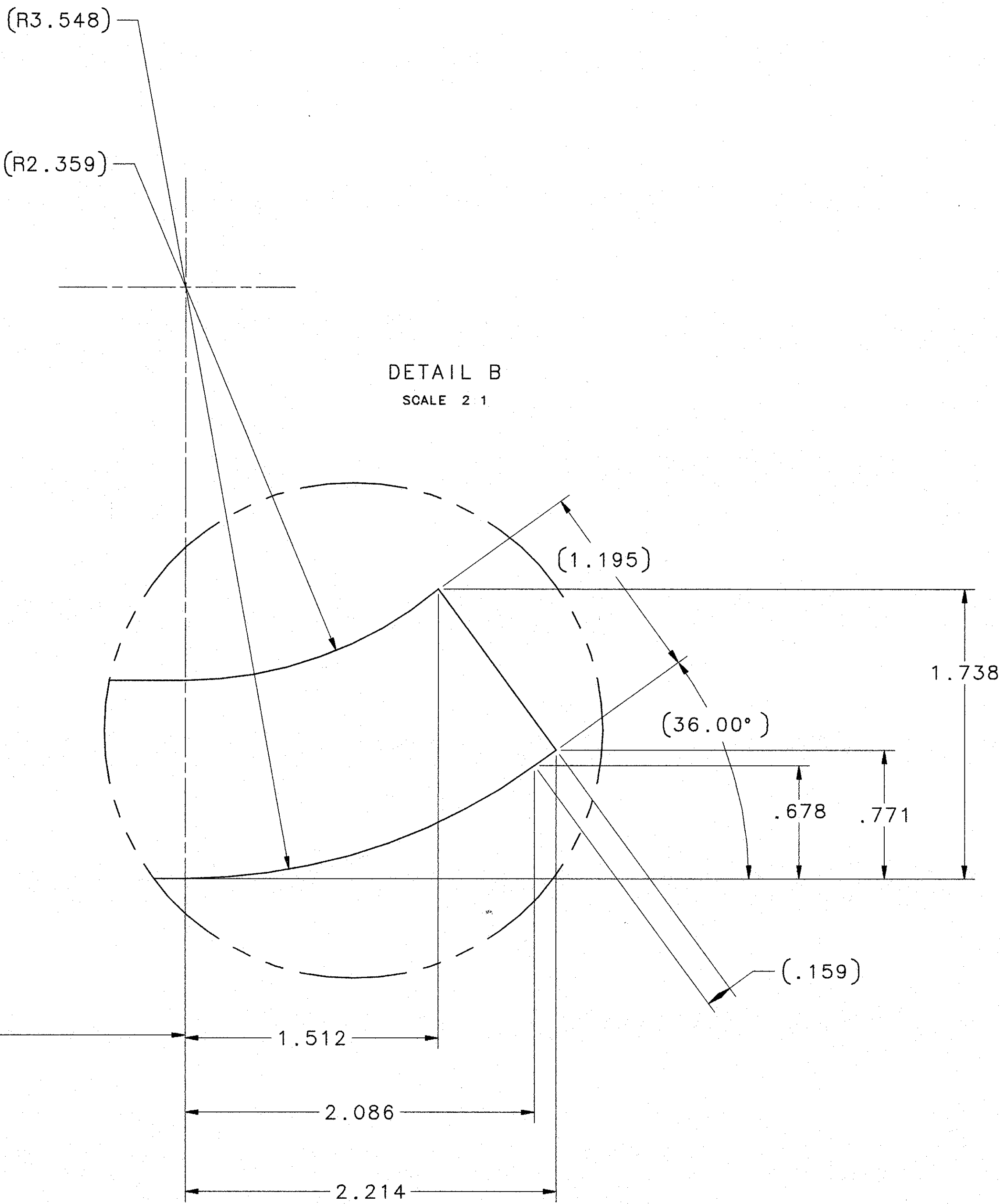
(FAR SIDE NOT SHOWN)



DETAIL A  
SCALE 2:1





DETAIL B  
SCALE 2:1



NOTES:

- 1.) RISE TIME OF MATERIAL MUST BE  $t_{\text{rise}}$  LESS THAN OR EQUAL TO 0.9ns.
- 2.) DECAY TIME OF SCINTILLATOR BAR MATERIAL MUST BE  $t_{\text{decay}}$  LESS THAN OR EQUAL TO 2.1ns.
- 3.) REQUIRED SIGNAL PULSE WIDTH (FWHM) MUST BE  $\sim 2.5\text{ns}$ .
- 4.) WAVELENGTH OF MAX EMISSION MUST BE  $\lambda_{\text{max}} \sim 425\text{nm}$ .
- 5.) MUST BE POLYVINYLTOLUENE AS BASE MATERIAL.  $\rho \sim 1.032\text{gm/cm}^3$
- 6.) INDEX OF REFRACTION  $n \sim 1.58$ .
- 7.) MATERIAL MUST BE FREE OF VISUAL INCLUSIONS AND AIR BUBBLES.
- 8.) ALL SURFACES TO HAVE OPTICAL (MIRROR) QUALITY. DIAMOND CUTTING IS PREFERRED.

DOCUMENT CONTROL STAMP		EACH SHEET OF MULTI-SHEET DRAWINGS SHALL ALWAYS HAVE THE SAME REVISION LEVEL.											
		D/W & TOL UNLESS OTHERWISE SPECIFIED		TRACKING NO		N/A		United States Department of Energy		Jefferson Lab Thomas Jefferson National Accelerator Facility		Newport News Virginia	
		DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED											
		TOLERANCES ARE IN FRACTIONS											
		X = .001 XX = .01 XXX = .050											
MATERIAL		THIRD ANGLE PROJECTION		DRAWN		DATE							
BICRON 408 OR EQUIVALENT				C.L. WIGGINS		2012/03/05				PHY B - CLAS 12 DETECTOR			
				CHECKED		2012/03/22				CENTRAL TIME OF FLIGHT (CTOF)			
				D.H. KASHY						SCINTILLATOR; LOW			
				APPROVED		2012/03/22							
				D.H. KASHY									
FINISH		UNLESS OTHERWISE NOTED		SIZE		DWG NO						REV	
MACHINING		125		SCALE		1/2				B00000-01-04-1402		A	
PERIOD & BREAK ALL SHARP EDGES													
DO NOT SCALE DRAWING													
</													