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An original Wittman Buttercup located in an Experimental Aviation Association Museum was inspected by the NTSB IIC. There were no plans/design drawings by Steve Wittman for the Wittman Buttercup. The aircraft did not have inspection ports that could be used to gain access into the aircraft's internal structure, which limited the non-destructive documentation design of details of the structure. Some outlines of the wing spars and ribs were visible through wing skin impressions of those members. The aircraft rear wing spar had approximate dimensions measured as 1 3/8 x 3 1/8 in. The aircraft made use of a structural compression rib at its sixth rib. The wingtip of the aircraft was shaken by hand to visually compare its response to that of a Luce Wittman Buttercup that was in the area. The Luce Wittman Buttercup wingtip was shaken by hand and a qualitative response difference to that of the museum Wittman Buttercup was difficult to make. The workmanship, build methods, materials used, and design variations of the comparative Luce Wittman Buttercup are unknown.