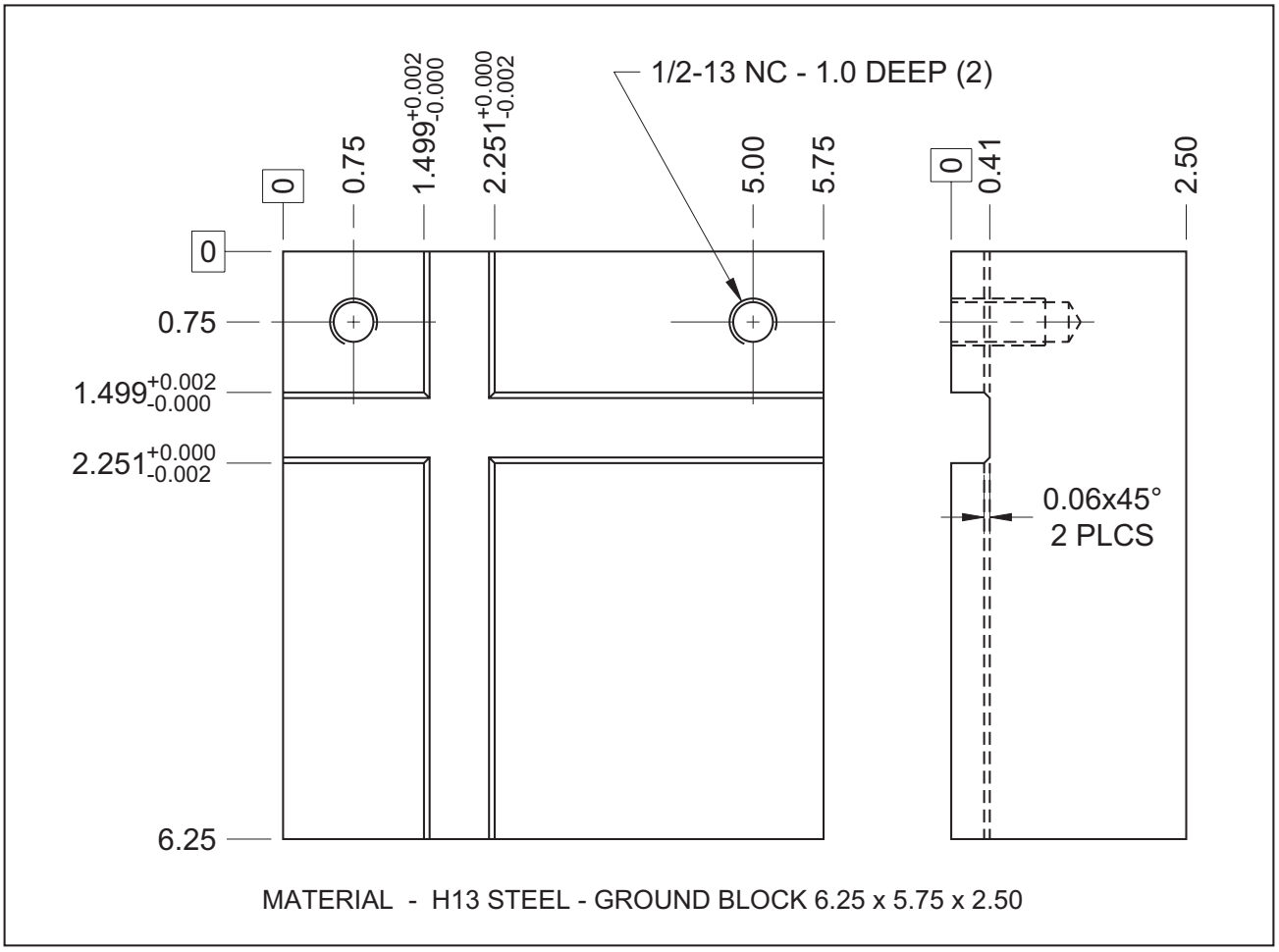
33-07 Crossing Slots

In this project, the material is a fairly tough H13 steel. The machining requires two holes and two slots that cross each other, with a tolerance. Make a complete program to machine the holes and slots.



➲ To develop the part program, follow these conditions:

1. Use ∅1.0 spot drill to make a 0.02 x 45° chamfer
2. Drill the two holes to 1.25 full depth
3. Tap the two holes 1/2-13
4. Use ∅5/8 roughing end mill with a 0.06 x 45° corner built-in
5. Use ∅5/8 finishing end mill with a 0.06 x 45° corner built-in
6. Program nominal drawing sizes ***- not mid-tolerances*** !

Answer this question:	**Based on the drawing tolerances, how many offsets are required for finishing? Explain why.**