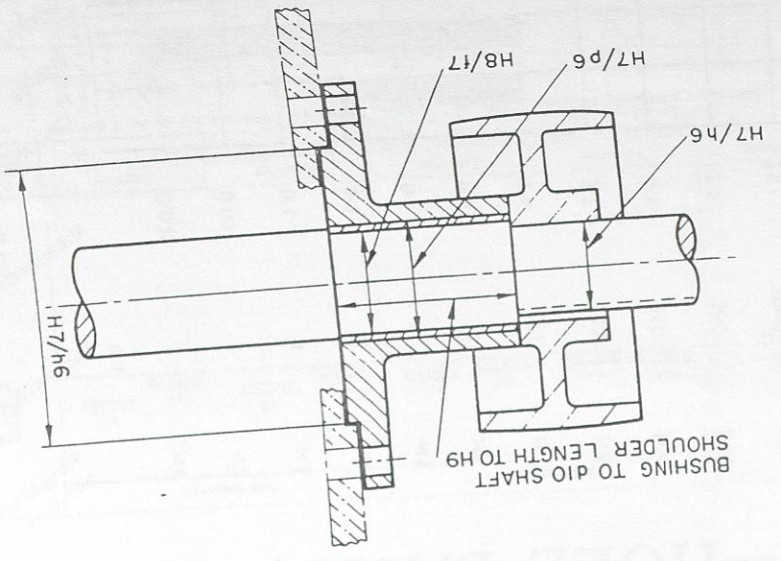


Shown above is an engineer's rough sketch of a machine component.  
 Make a detail working drawing of the component to a scale of 1:1 with the limits of size being specified directly.

Details of the fits in a pulley drive assembly are shown above.  
 Scaling the dimensions from the drawing, make fully dimensioned detail drawings of the four components of the assembly to a scale of 2:1. Limits of size are to be specified directly, and the surface texture symbol for machining, with suitable values should be included for critical surfaces.



|                        |       |      |            |
|------------------------|-------|------|------------|
| UNIVERSITY OF LIMERICK |       | NAME | Tony Rynne |
| DETAIL DRAWING         |       | DATE |            |
| DEPT. & OP. EN.        | SCALE | N/A  |            |

The two components shown are to be bolted together using an M30 bolt and with two washers. The head of the bolt sunk in a counterbore  $\phi 70$  and 30 deep.

