NO.

DATE . . ( )

described as follows. Let $p_0 \in R$ be any of the double points of S, let $\tilde{S}$ be the blow-up of S at p_0, and consider the map

$$r : \tilde{S} \longrightarrow \mathbb{P}^2$$

obtained by projection from p_0 onto a hyperplane.

⊓ See P475.
For the projection map, see P479. Refer to P176. ⌟

The generic hyperplane section C_h of S through p_0 is a plane quartic curve with one double point at p_0, its proper transform $\tilde{C}_h \subset \tilde{S}$ its desingularization.

⊓ By Bertini theorem, generic hyperplane section C_h of S through p_0 is smooth away p_0. Futhermore, generic C_h has a double point at p_0. Since $\deg S = 4$, C_h is quartic. ⇒ Since C_h has an ordinary double point, $\tilde{C}_h$ is smooth, and is the desingularization.

⌟

$\tilde{C}_h$ thus has genus 2, and since r expresses $\tilde{C}_h$ as a 2-sheeted cover of its image $L = h \cap \mathbb{P}^2 \cong \mathbb{P}^1$, r must be branched at exactly six points over