$$
\text { invLhs }=\left[\begin{array}{cc}
T T T & (\text { constraints })^{T} \\
\text { constraints } & 0
\end{array}\right]^{-1}
$$

where

$$
T T T \in \mathbb{R}^{n \times n}
$$

constraints $\in \mathbb{R}^{m \times n}$

