Substituting Eq. (24) into the above, and integrating by parts one more time returns the unusual action $\frac{1}{2} \int d^4x \sqrt{|c|} a^3 \frac{\dot{\phi}^2}{H^2} \left\{ \frac{1}{a^2} \mathcal{R} \mathcal{D}^2 \mathcal{R} \right\}$

 $+ \left(\dot{\mathcal{R}} - \frac{K}{a^2} \frac{\mathcal{R}}{H} \right) \frac{\mathcal{D}^2}{\mathcal{D}^2 - K\mathcal{E}} \left(\dot{\mathcal{R}} - \frac{K}{a^2} \frac{\mathcal{R}}{H} \right) \right\}. \quad (26)$