We construct some examples of explicit solutions to the problem

$$\min_{\gamma} \int_{\Omega} d_{\gamma}(x) \, dx$$

where the minimum is over all connected compact sets  $\gamma \subset \overline{\Omega} \subset R^2$  of prescribed one-dimensional Hausdorff measure. More precisely we show that, if  $\gamma$  is a  $C^{1,1}$ curve of length l with curvature bounded by 1/R,  $l \leq \pi R$  and  $\varepsilon \leq R$ , then  $\gamma$ is a solution to the above problem with  $\Omega$  being the  $\varepsilon$ -neighbourhood of  $\gamma$ . In particular,  $C^{1,1}$  regularity is optimal for this problem.