**SUPPLEMENTARY MATERIALS**

**Supplementary Figure 1: Feedlot layouts modeled.**

**A screenshot of a cell phone

Description automatically generated**

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**Figure S 1A** – FS1 small-size feedlot with one hospital-pen.

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**Figure S 1B –** FM1 medium-size feedlot with one hospital-pen.

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**Figure S 1C** – FM2 medium-size feedlot with two hospital-pens.

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**Figure S 1D –** FL1 large-size feedlot with two sections and two hospital-pens.

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**Figure S 1E *–*** FL2 large-size feedlot with two sections andfour hospital*-*pens