Appendix A

Figures analyzing the pile foundation of
*Al Hasa Holiday Inn Hotel*
Figures of analyzing pile foundation of *Al Ahsa Holiday Inn Hotel*  

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- 1728 [kN/m]
- 1581 [kN/m]
- 1434 [kN/m]
- 1287 [kN/m]
- 1140 [kN/m]
- 993 [kN/m]
- 846 [kN/m]
- 699 [kN/m]
- 552 [kN/m]
- 405 [kN/m]
- 258 [kN/m]
- 111 [kN/m]
- 37 [kN/m]

**Figure 8.25** Bending moment in x-direction $m_x$ (Pile cap 2, linear analysis with soil contact)

- 2384 [kN/m]
- 1987 [kN/m]
- 1590 [kN/m]
- 1193 [kN/m]
- 796 [kN/m]
- 399 [kN/m]
- 2 [kN/m]
- -396 [kN/m]
- -793 [kN/m]
- -1190 [kN/m]
- -1587 [kN/m]
- -1984 [kN/m]
- -2381 [kN/m]

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![Figure 8.34](image-url) Shear forces in x-direction $Q_x$ (Pile cap 2, linear analysis without soil contact)
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8.1.2.5 *Pile cap as a footing without piles*

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\[ y = 14.40 \text{ [m]} \]

\[ B = 6.00 \text{ [m]} \]
8.1.3.1 Linear analysis with soil contact

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