Appendix B

Figures Analyzing the Pile Foundation of 
Al Hasa Hospital
# Figures Analyzing the Pile Foundation of Al Hasa Hospital

## Appendix B

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![Contact pressure](image)

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- 2913 [kN.m/m]
- 2678 [kN.m/m]
- 2443 [kN.m/m]
- 2208 [kN.m/m]
- 1973 [kN.m/m]
- 1738 [kN.m/m]
- 1503 [kN.m/m]
- 1268 [kN.m/m]
- 1033 [kN.m/m]
- 798 [kN.m/m]
- 563 [kN.m/m]
- 328 [kN.m/m]
- 93 [kN.m/m]

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Bending moment in \( m_y \) (Pile cap 4, linear analysis with soil contact)

- 2122 [kN.m/m]
- 1945 [kN.m/m]
- 1768 [kN.m/m]
- 1591 [kN.m/m]
- 1414 [kN.m/m]
- 1237 [kN.m/m]
- 1060 [kN.m/m]
- 883 [kN.m/m]
- 706 [kN.m/m]
- 529 [kN.m/m]
- 352 [kN.m/m]
- 175 [kN.m/m]
- -3 [kN.m/m]
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-2698 [kN/m]
-2248 [kN/m]
-1798 [kN/m]
-1348 [kN/m]
-898 [kN/m]
-448 [kN/m]
2 [kN/m]
452 [kN/m]
902 [kN/m]
1352 [kN/m]
1802 [kN/m]
2252 [kN/m]
2702 [kN/m]

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-4460 [kN/m]
-3717 [kN/m]
-2974 [kN/m]
-2231 [kN/m]
-1488 [kN/m]
-745 [kN/m]
-2 [kN/m]
742 [kN/m]
1485 [kN/m]
2228 [kN/m]
2971 [kN/m]
3714 [kN/m]
4457 [kN/m]

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\[ y = 14.40 \text{ [m]} \]
\[ B = 6.00 \text{ [m]} \]
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![Settlement s (as raft without piles)](image1)

![Contact pressure q (as raft without piles)](image2)

![Bending moment in x-direction $m_x$ (as a raft without piles)](image3)
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