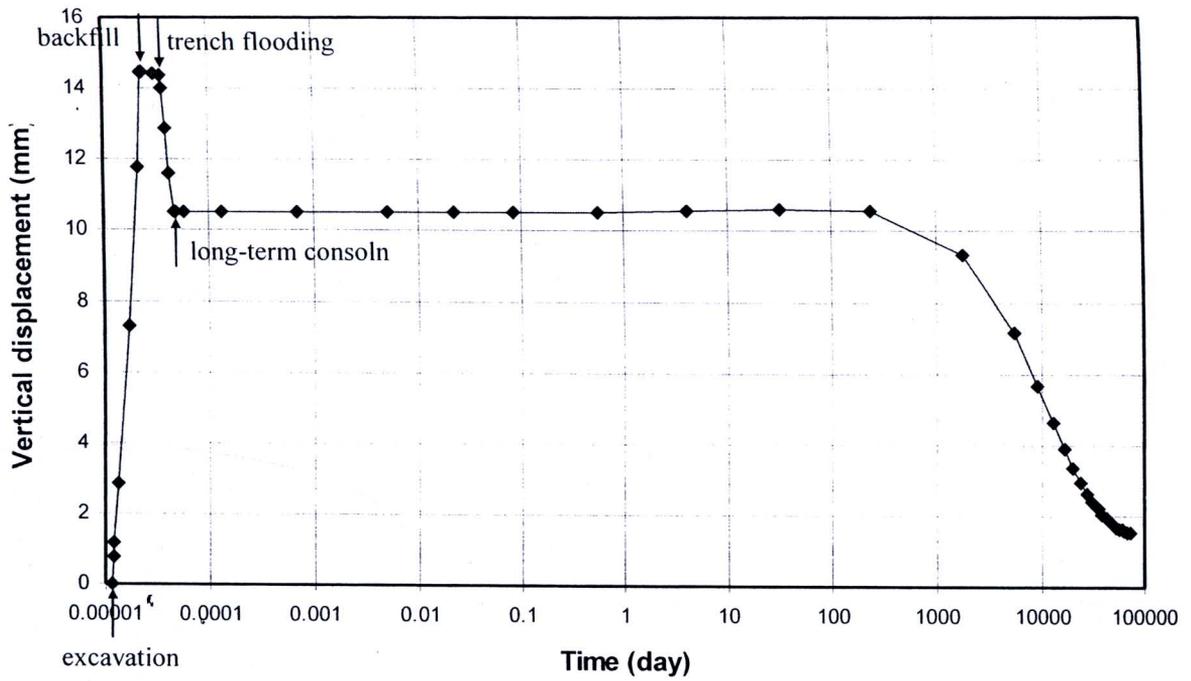


## เอกสารอ้างอิง

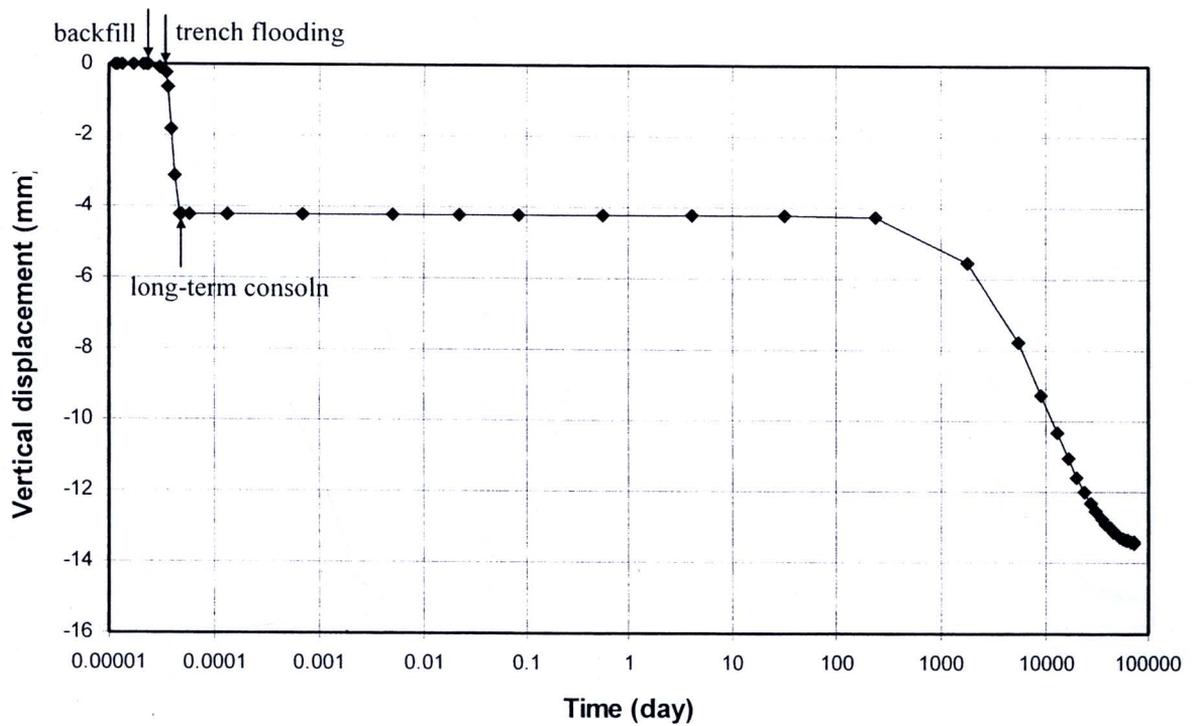
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ภาคผนวก ก

การเคลื่อนตัวในแนวตั้งของพื้นที่ร่องชุดและท่อ

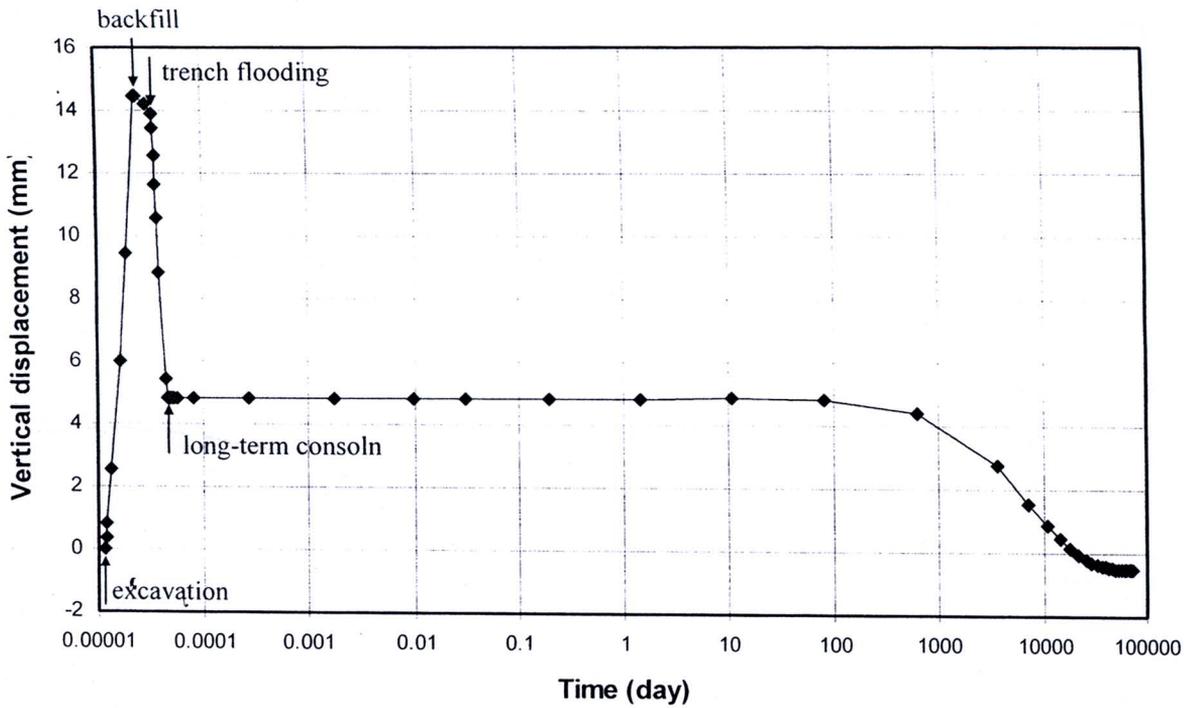


(a) Vertical displacement of trench base

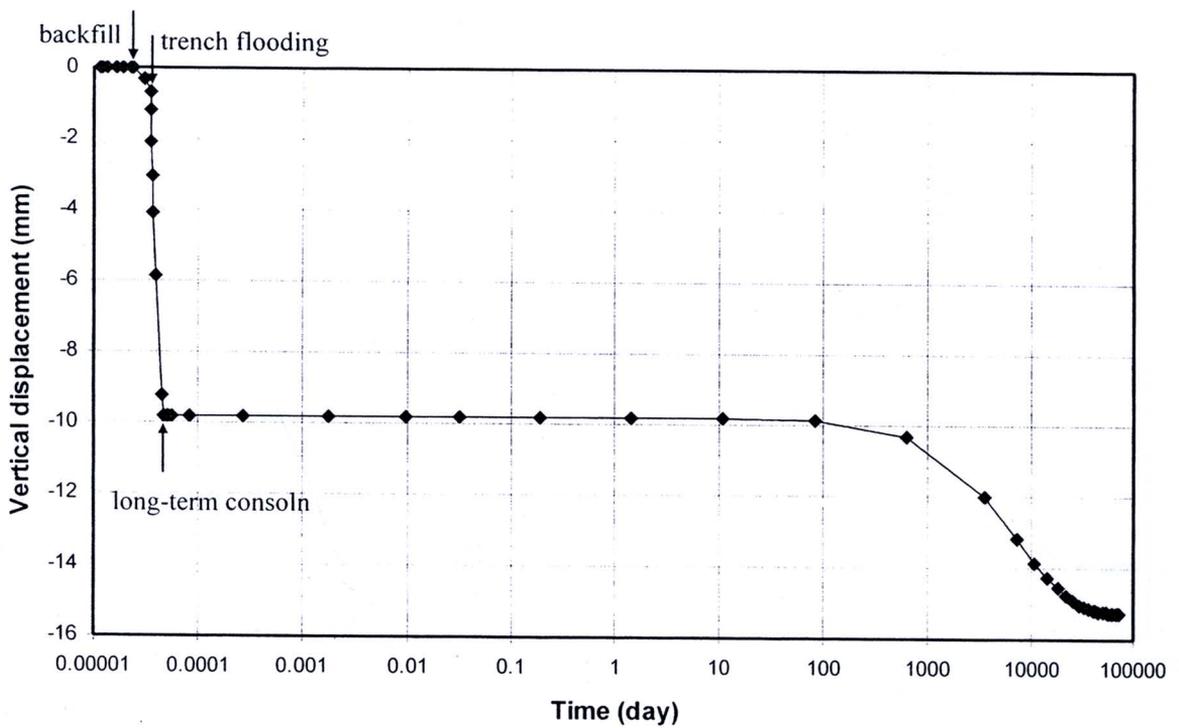


(b) Vertical displacement of pipe base

รูปที่ ก-1 กรณีการวิเคราะห์ D20W15(nocon)

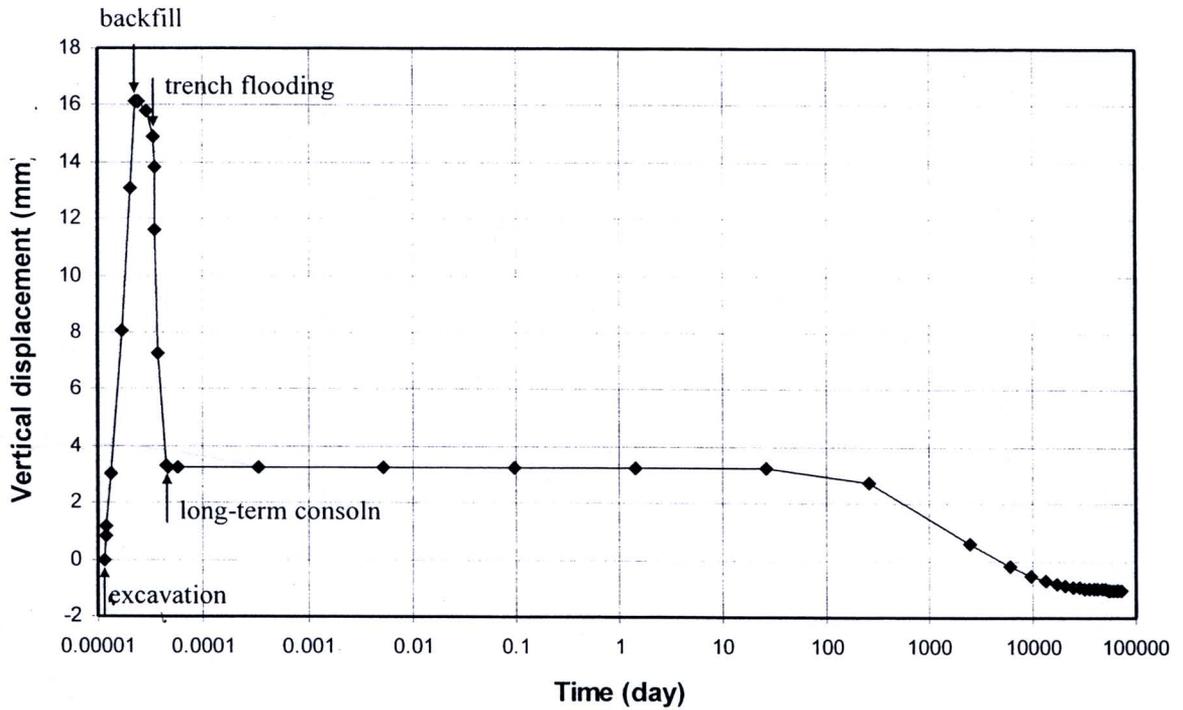


(a) Vertical displacement of trench base

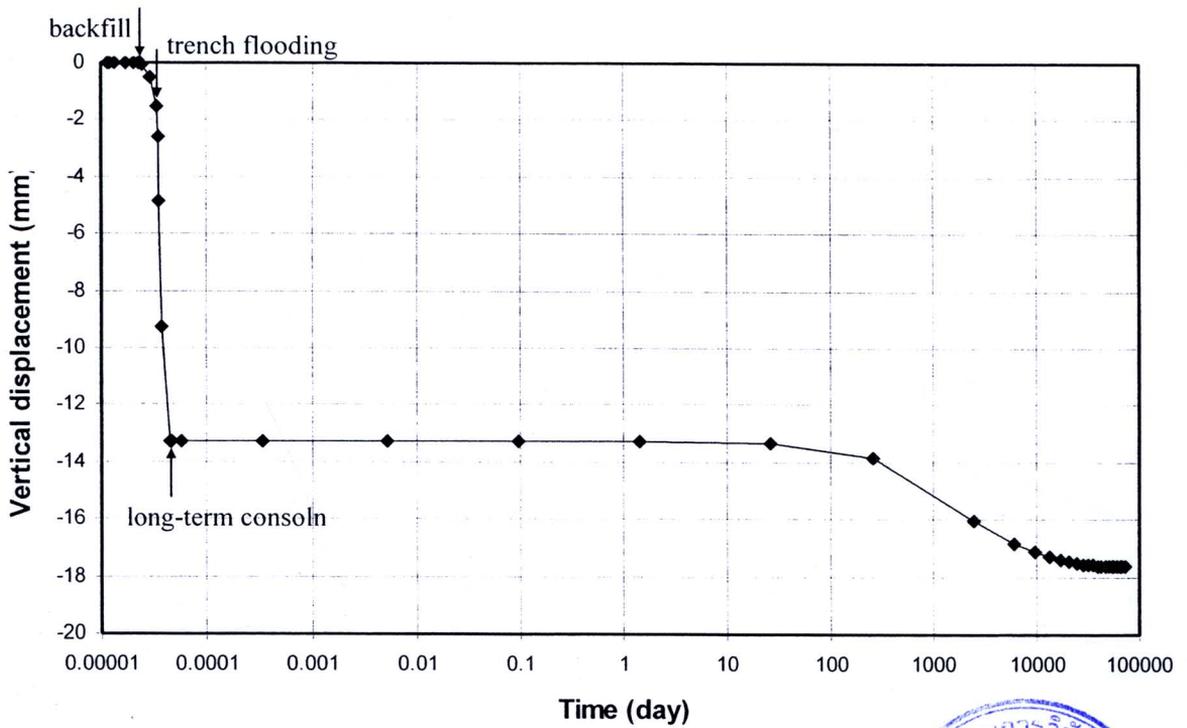


(b) Vertical displacement of pipe base

รูปที่ ก-2 กรณีการวิเคราะห์ D20W15int(nocon)



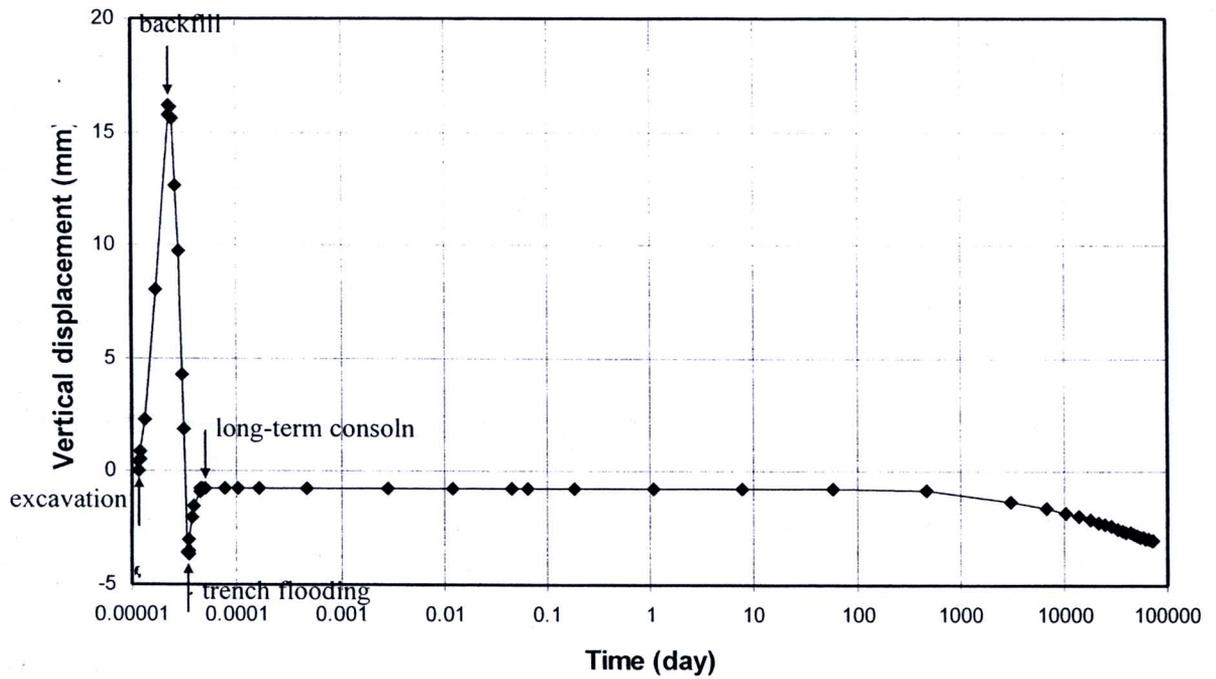
(a) Vertical displacement of trench base



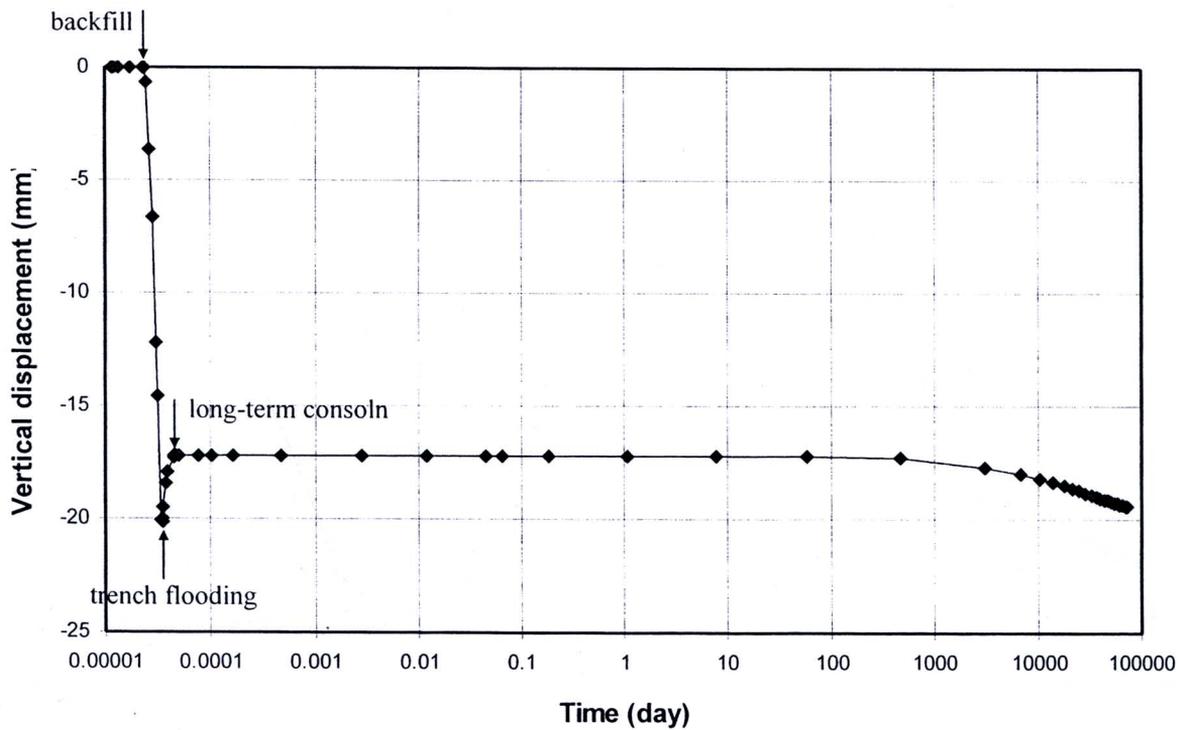
(b) Vertical displacement of pipe base

รูปที่ ก-3 กรณีการวิเคราะห์ D20W20(nocon)



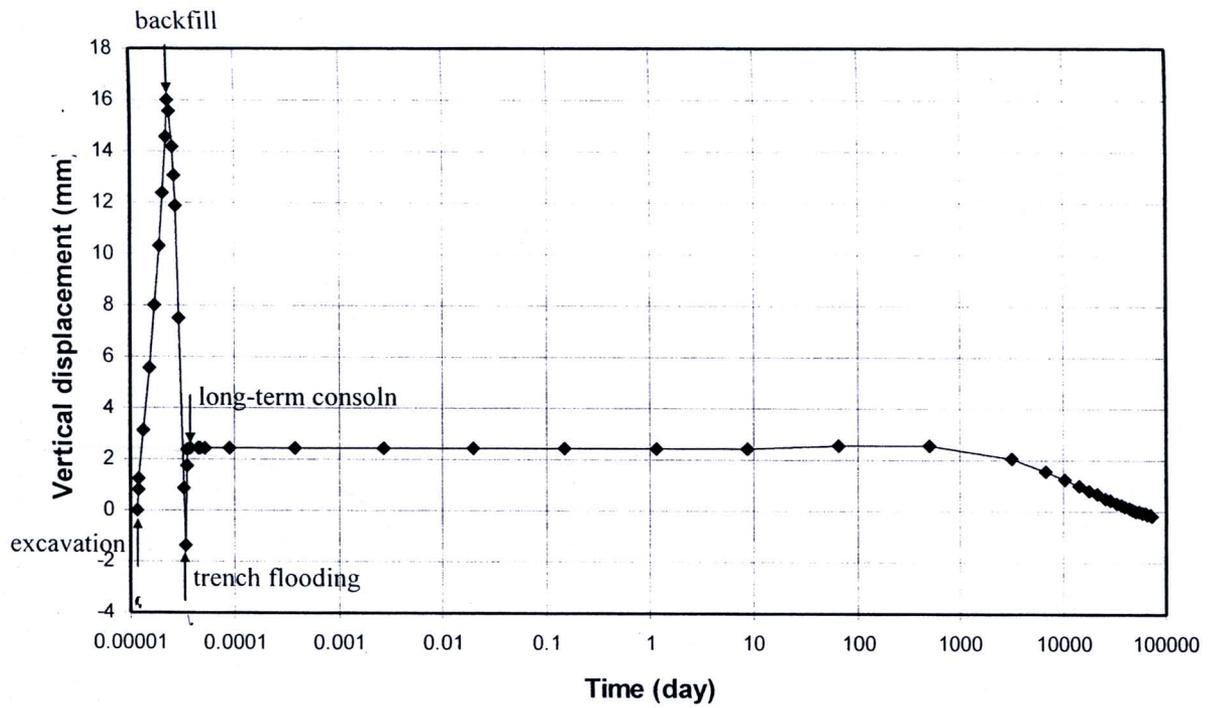


(a) Vertical displacement of trench base

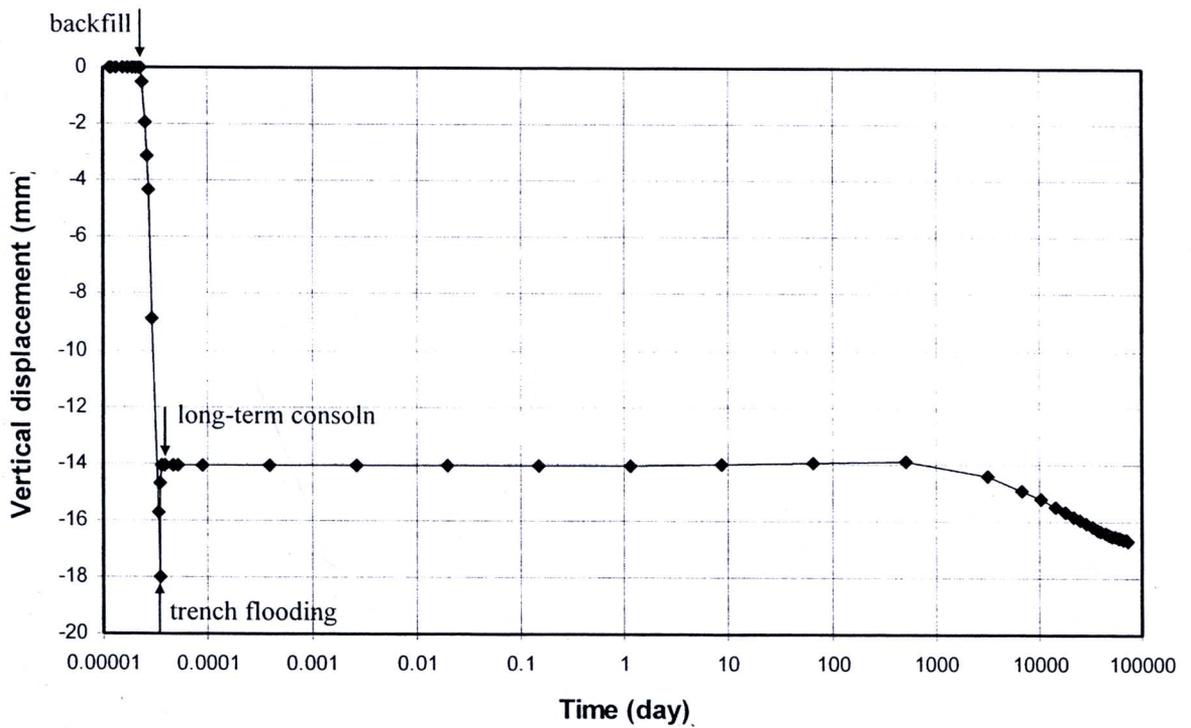


(b) Vertical displacement of pipe base

รูปที่ ก-4 กรณีการวิเคราะห์ D20W20int(nocon)

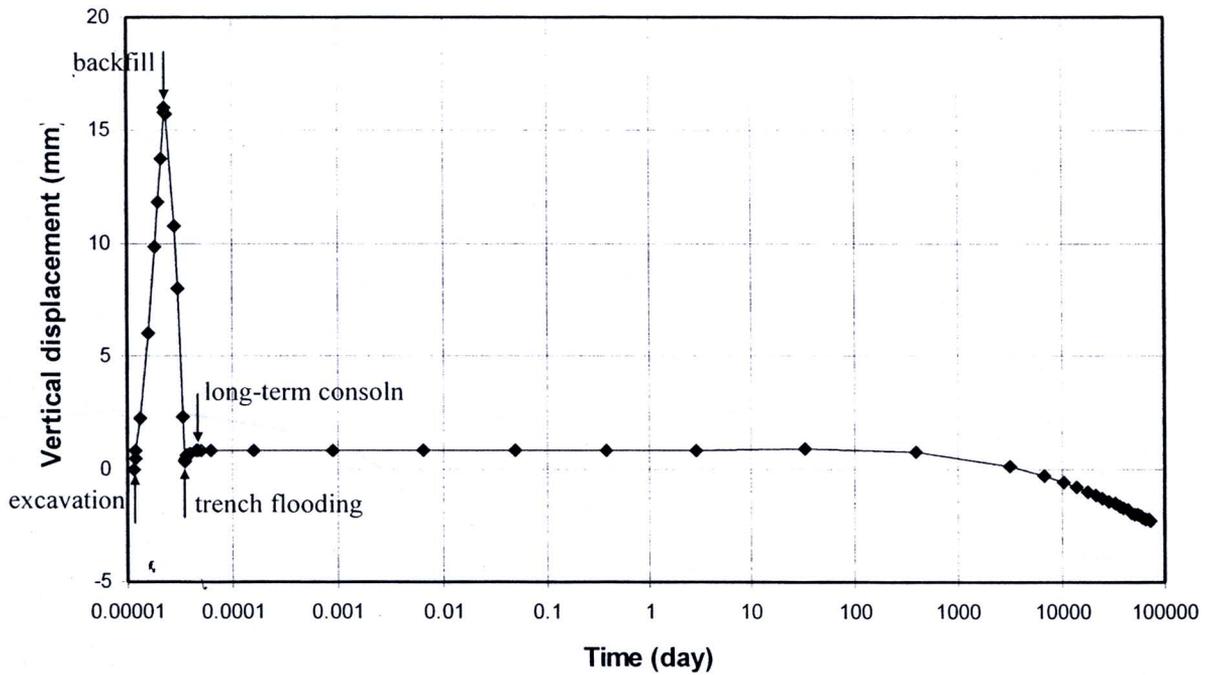


(a) Vertical displacement of trench base

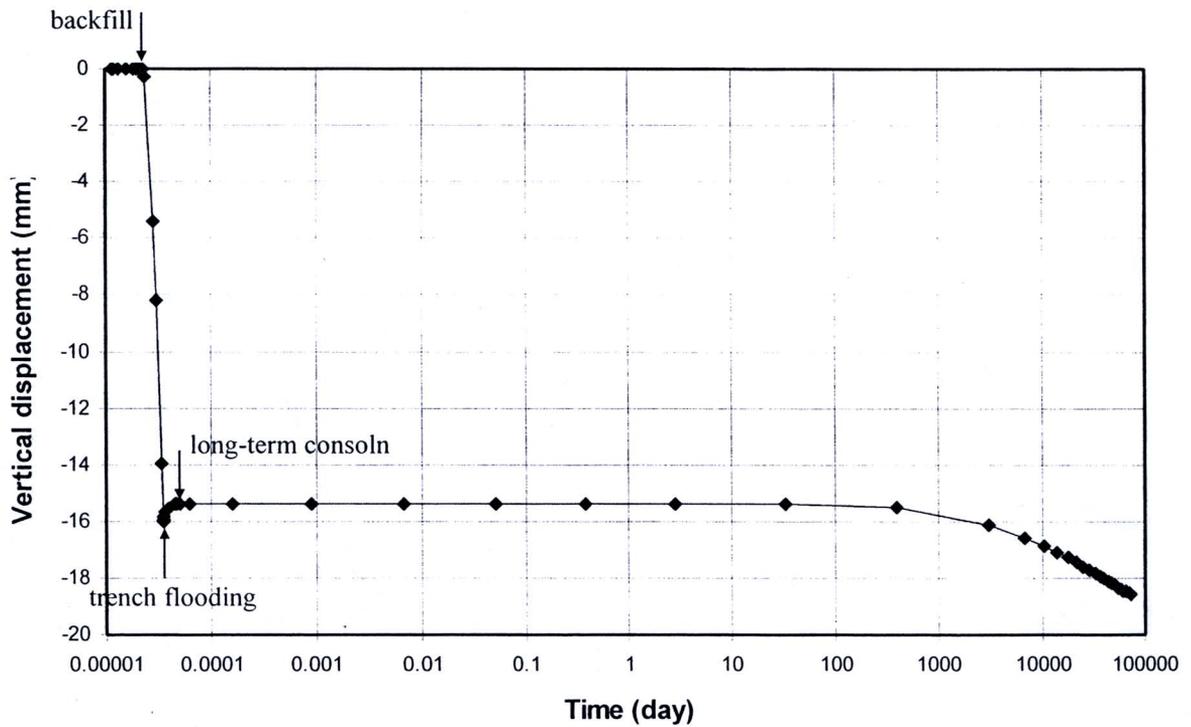


(b) Vertical displacement of pipe base

รูปที่ ก-5 กรณีการวิเคราะห์ D30W15(nocon)

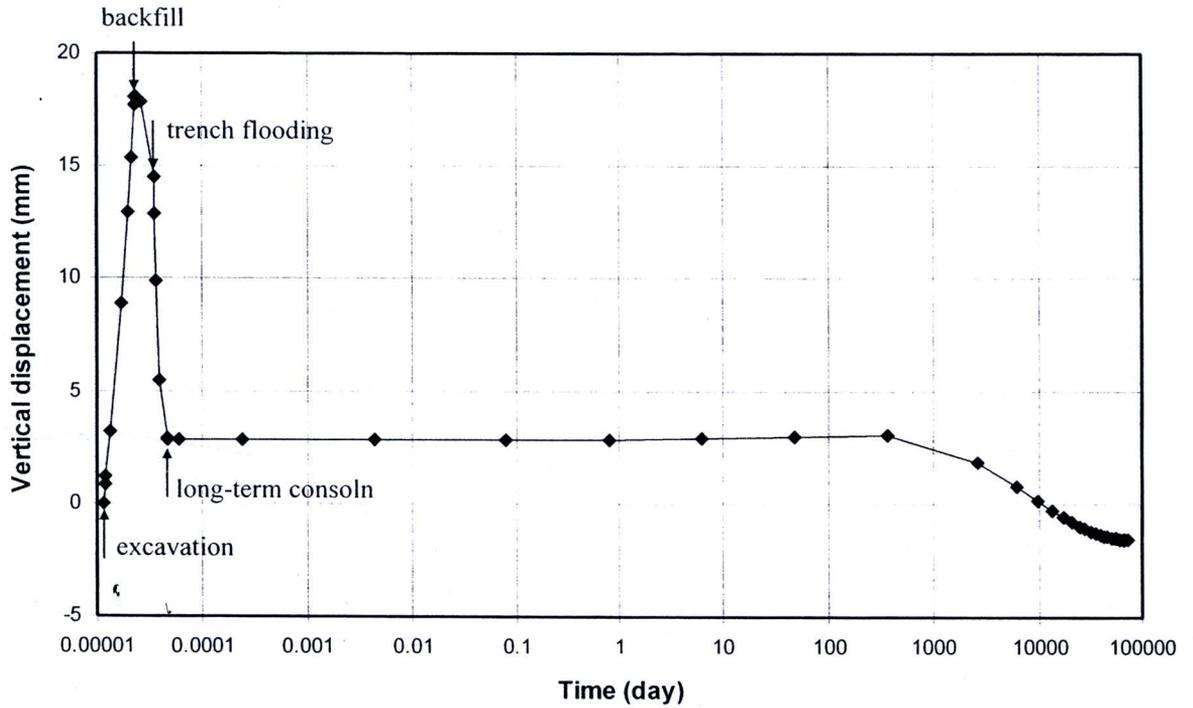


(a) Vertical displacement of trench base

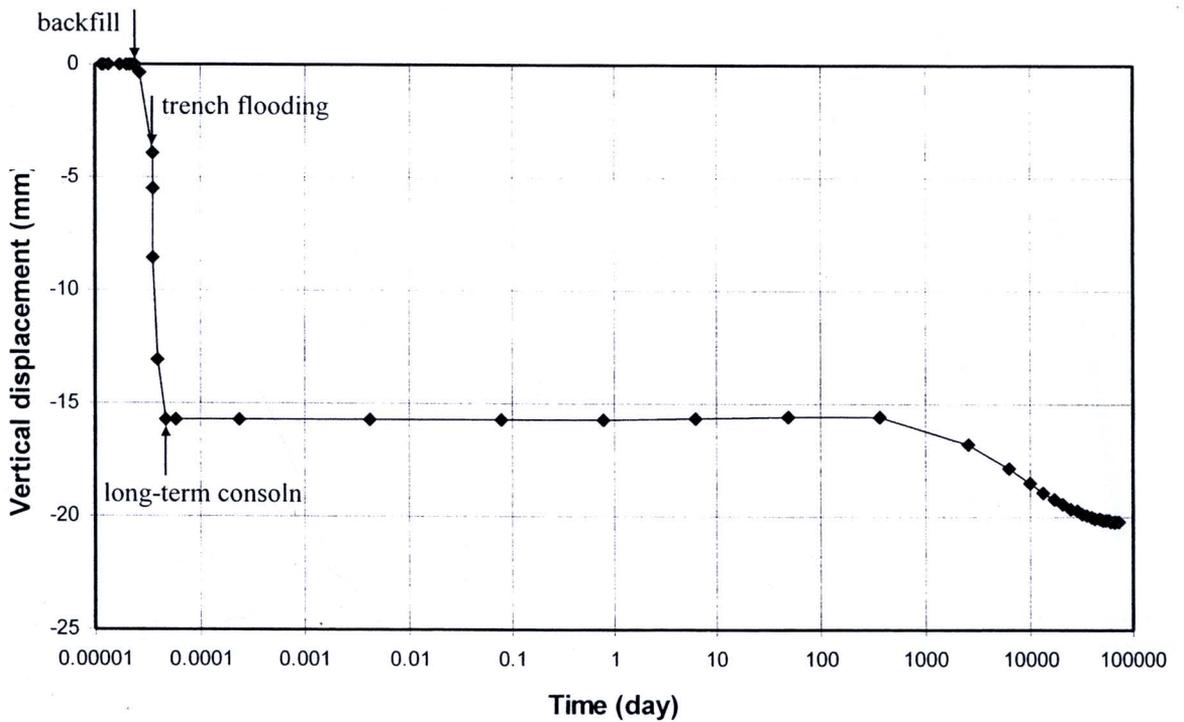


(b) Vertical displacement of pipe base

รูปที่ ก-6 กรณีการวิเคราะห์ D30W15int(nocon)

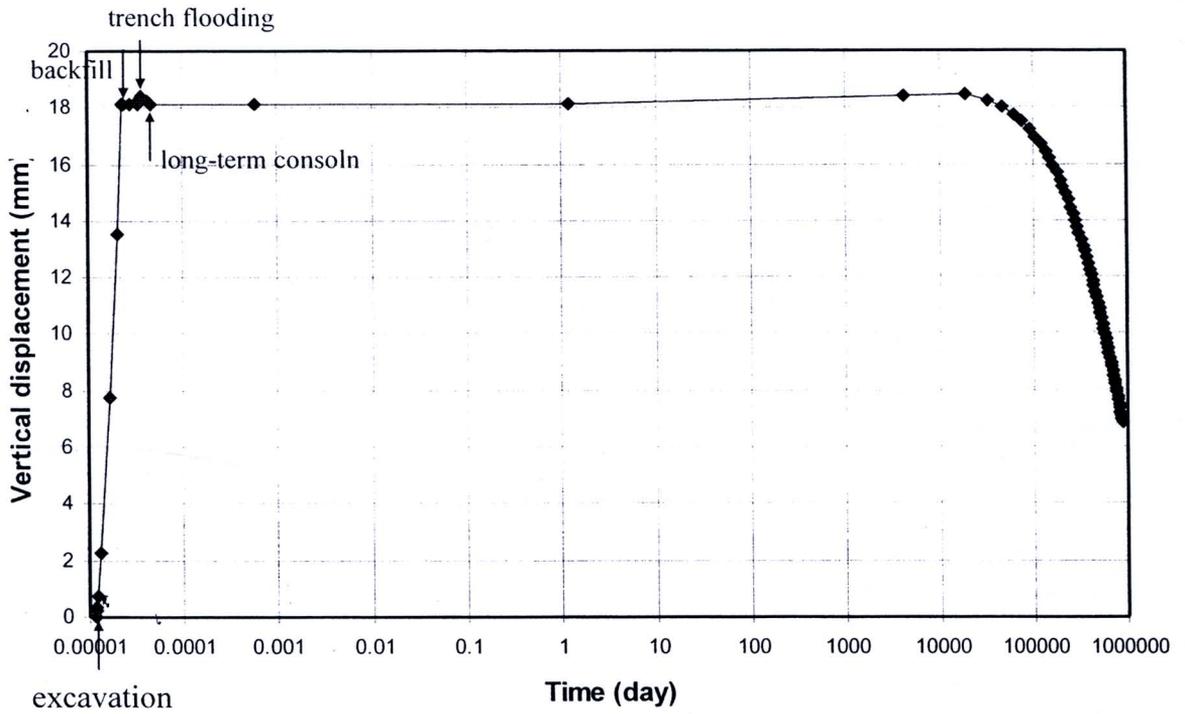


(a) Vertical displacement of trench base

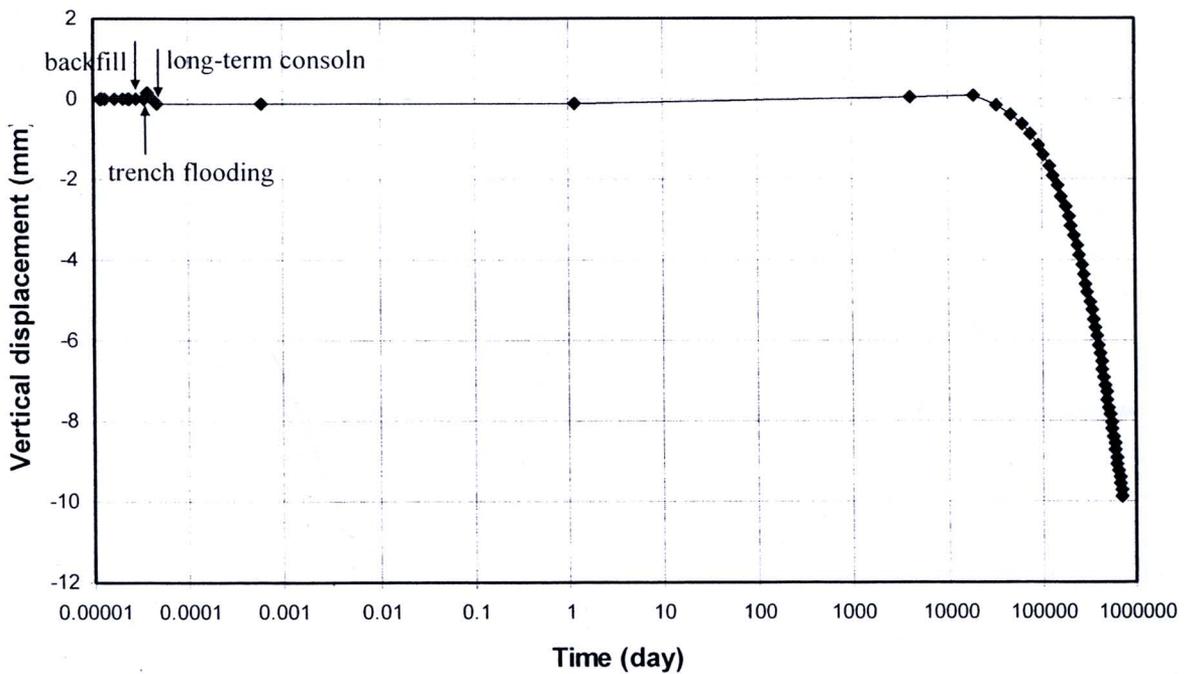


(b) Vertical displacement of pipe base

รูปที่ ก-7 กรณีการวิเคราะห์ D30W20(nocon)

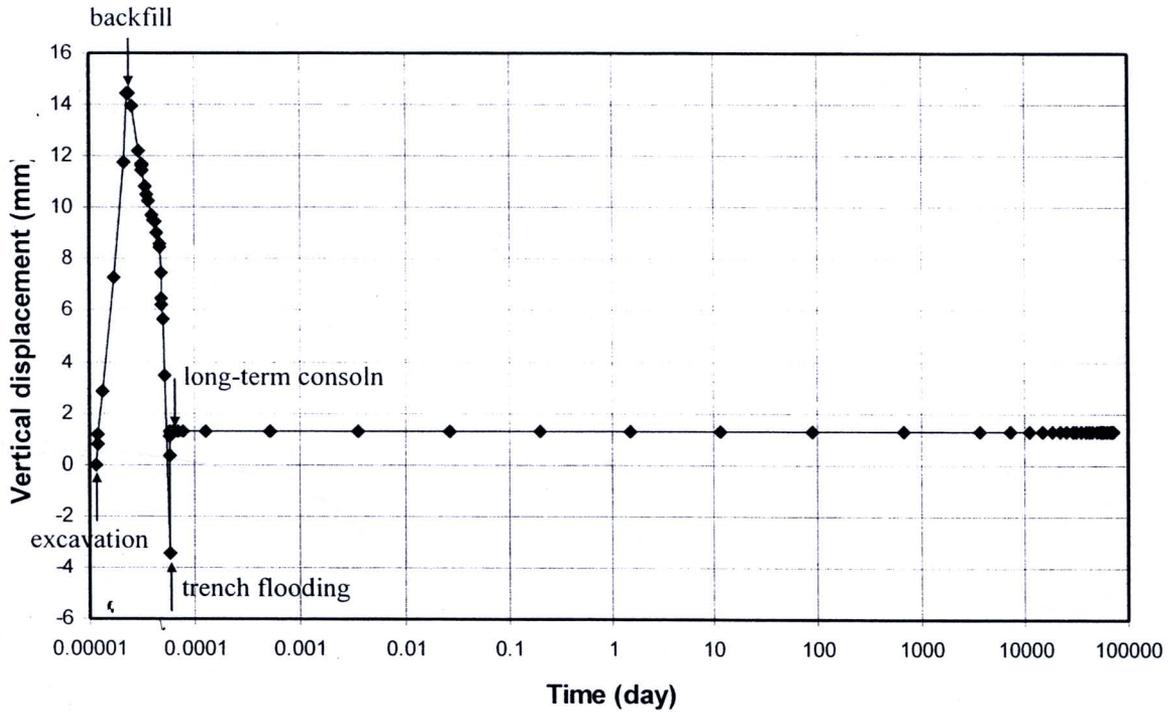


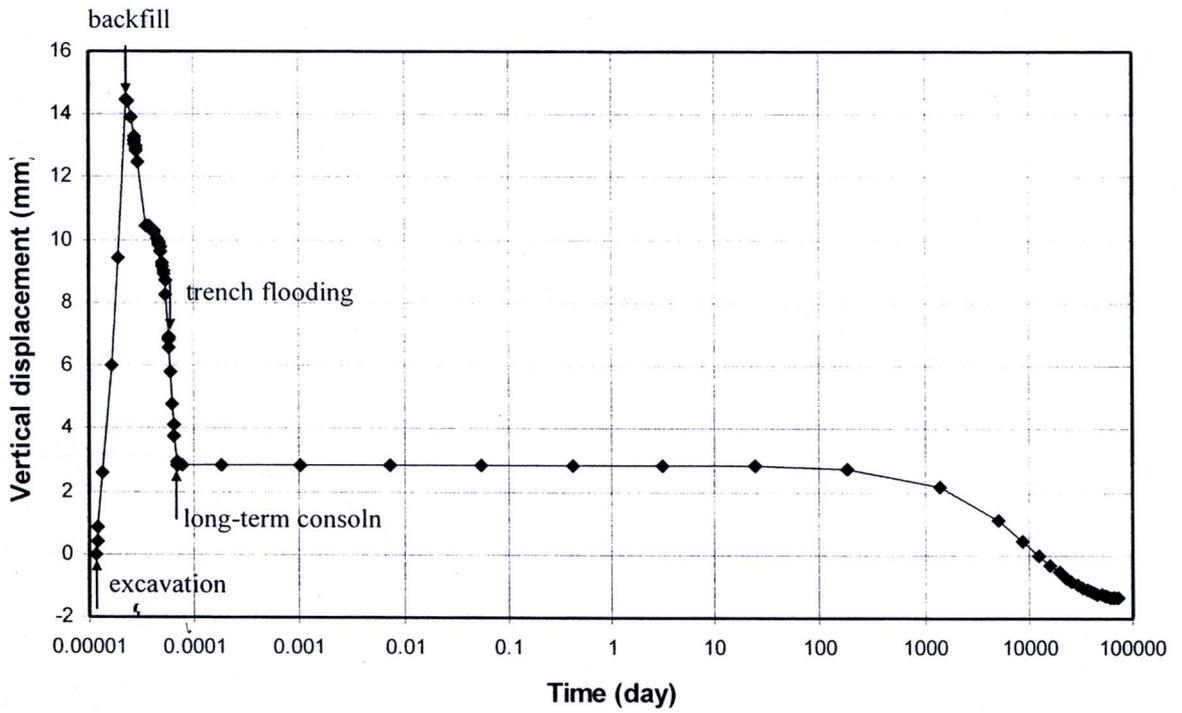
(a) Vertical displacement of trench base



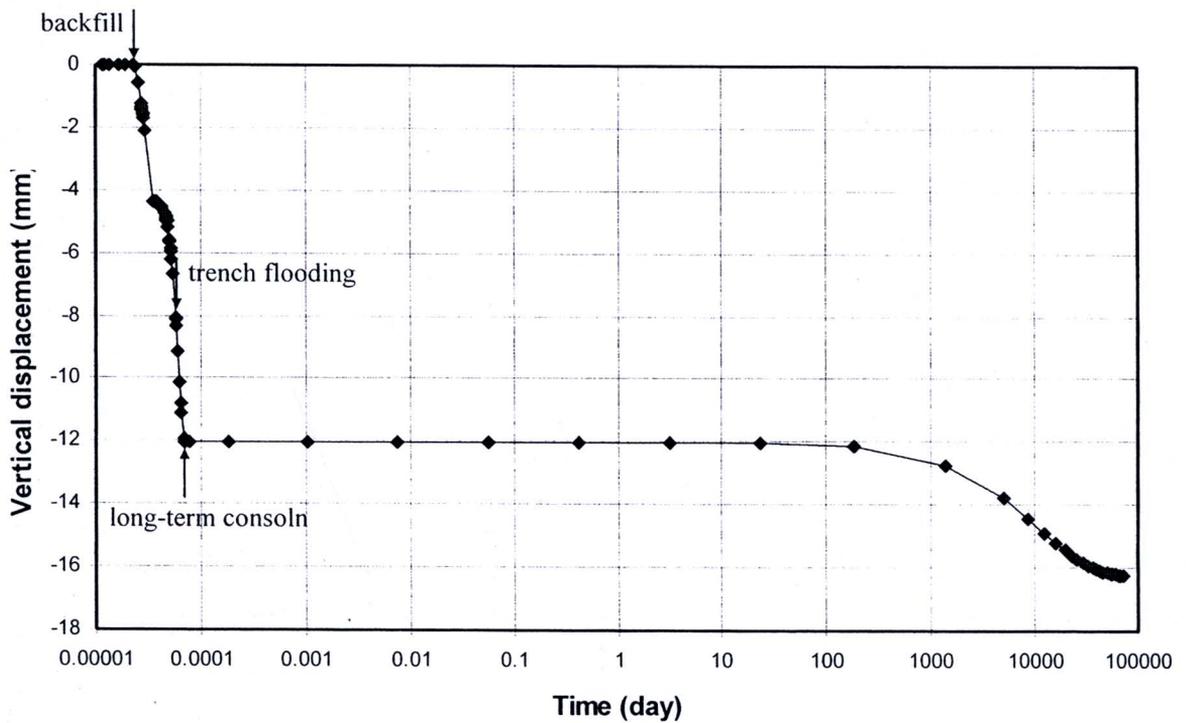
(b) Vertical displacement of pipe base

รูปที่ ก-8 กรณีการวิเคราะห์ D30W20int(nocon)



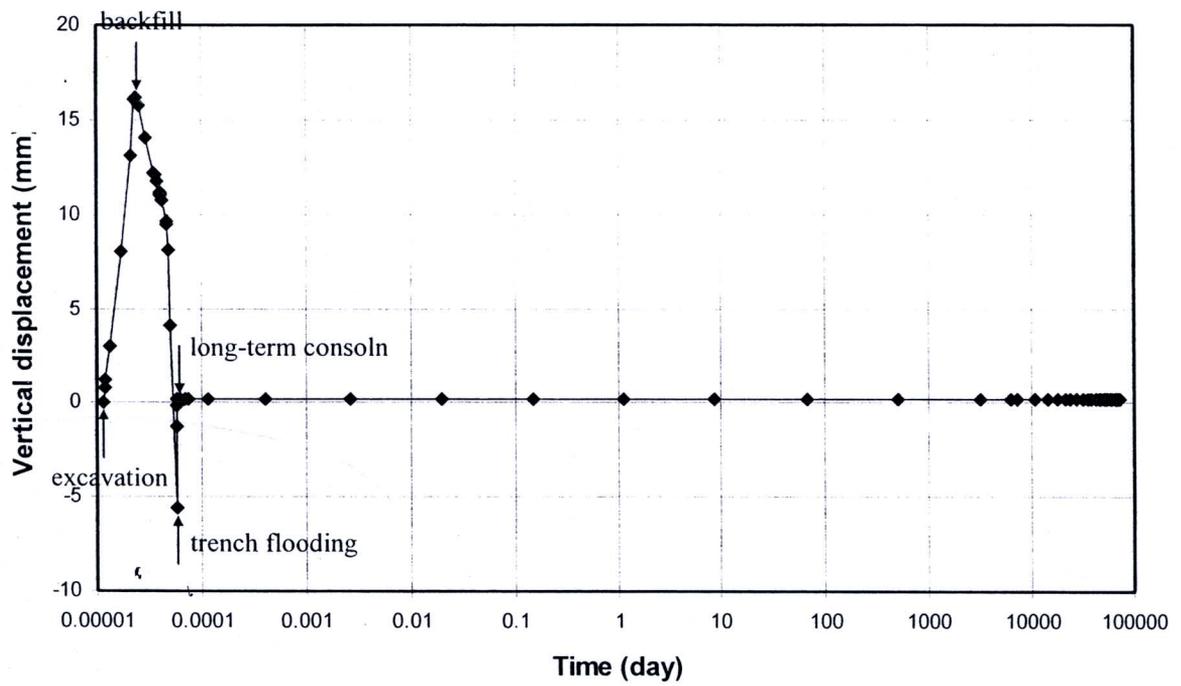


(a) Vertical displacement of trench base

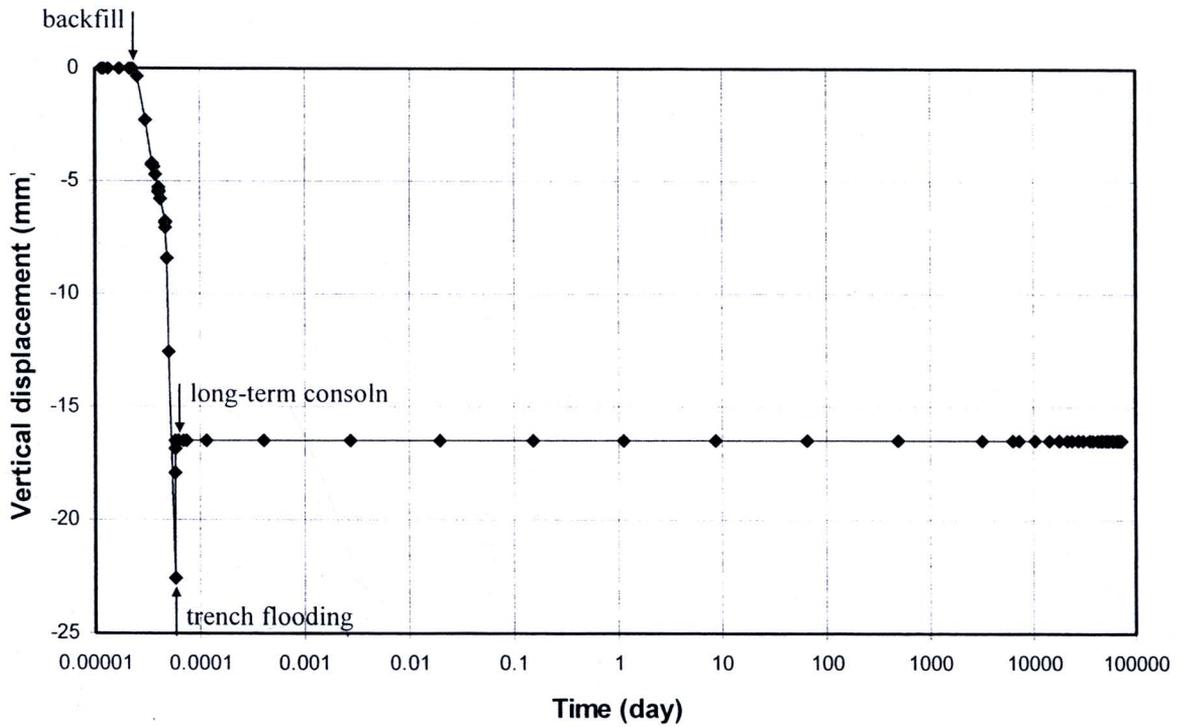


(b) Vertical displacement of pipe base

รูปที่ ก-10 กรณีการวิเคราะห์ D20W15int(withcon)

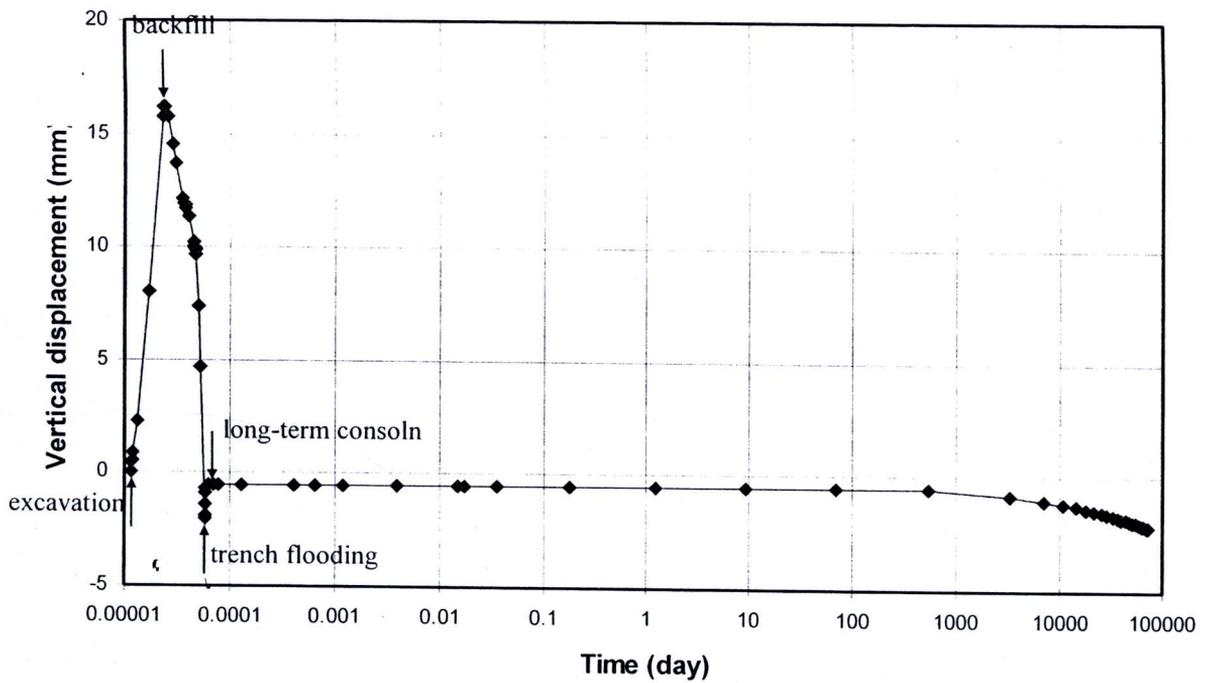


(a) Vertical displacement of trench base

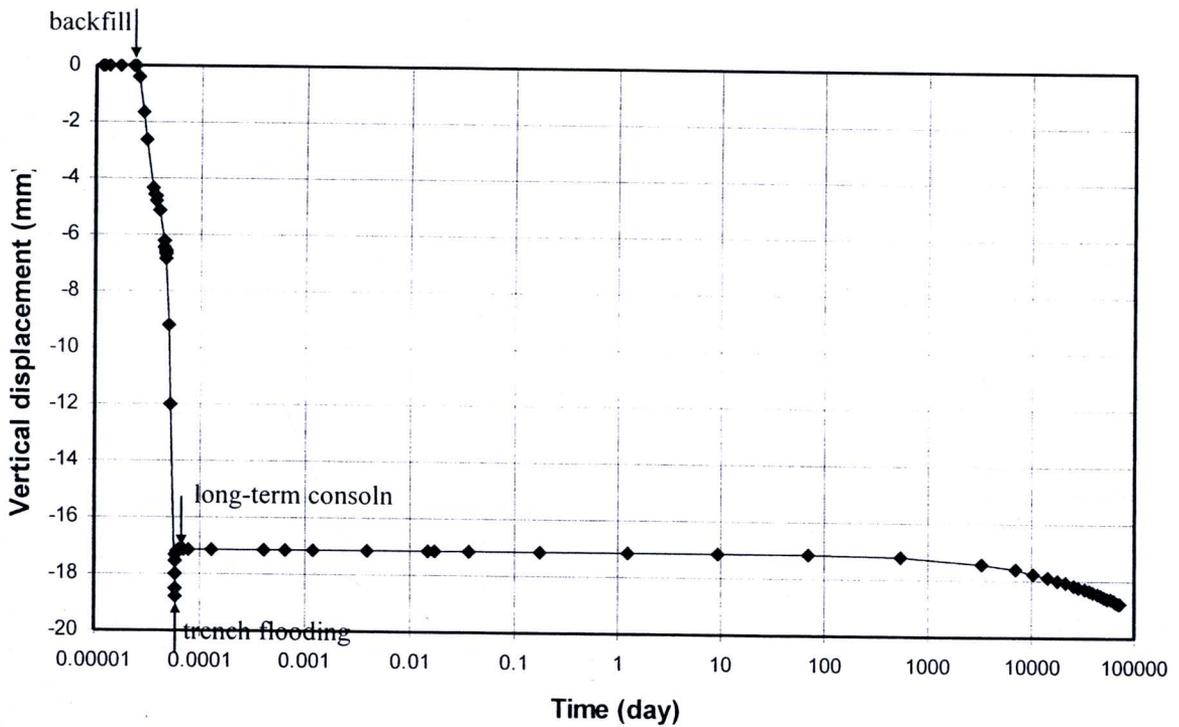


(b) Vertical displacement of pipe base

รูปที่ ก-11 กรณีการวิเคราะห์ D20W20(withcon)

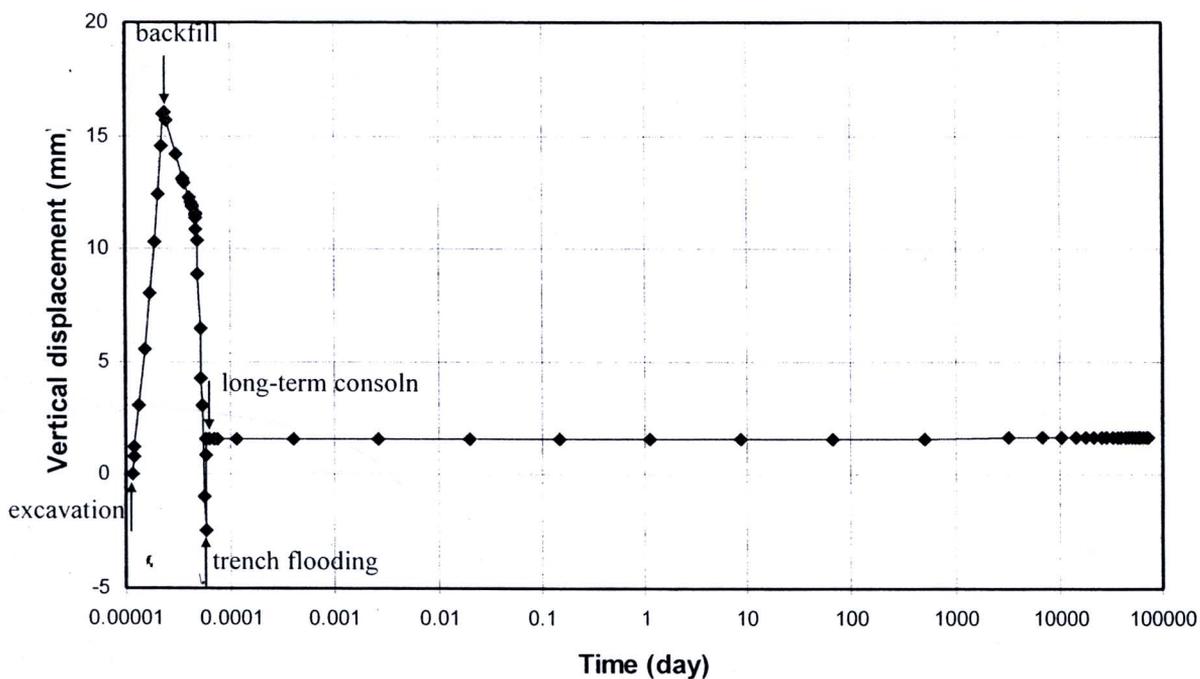


(a) Vertical displacement of trench base

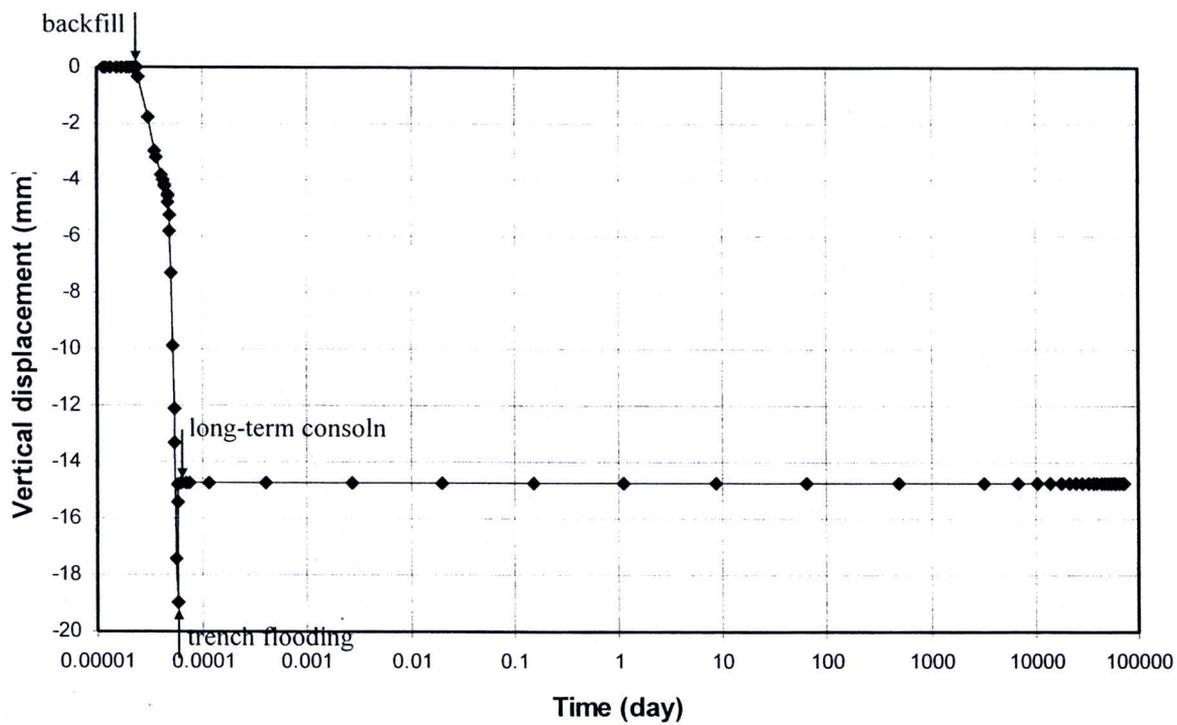


(b) Vertical displacement of pipe base

รูปที่ ก-12 กรณีการวิเคราะห์ D20W20int(withcon)

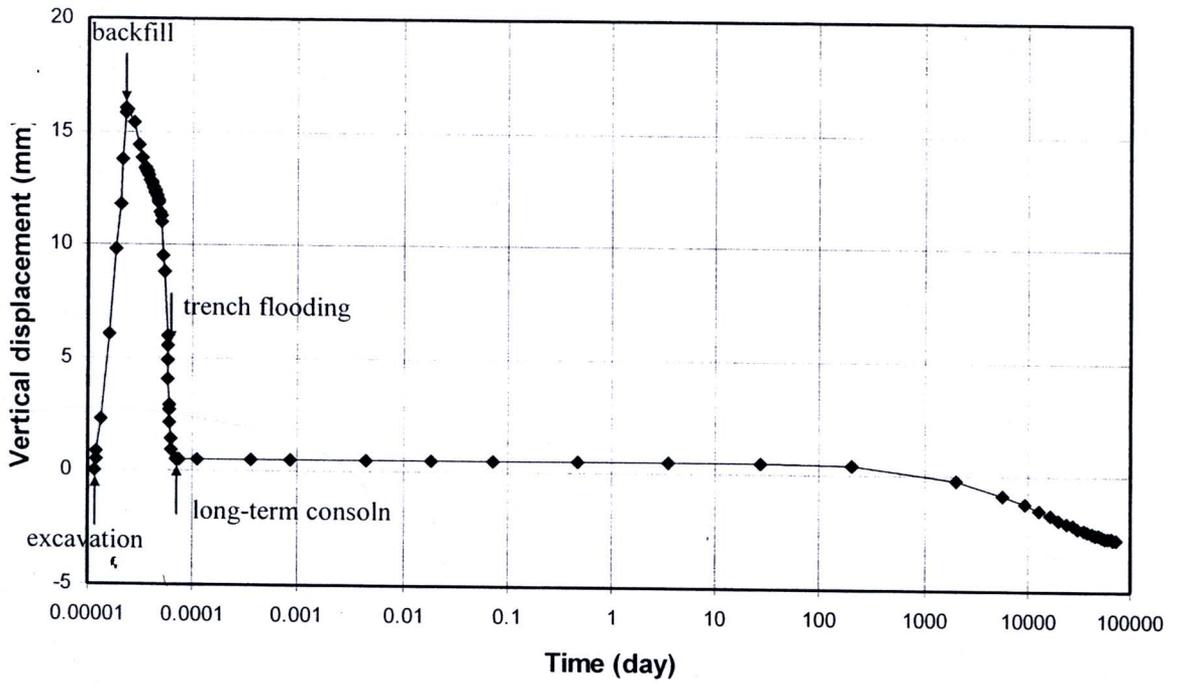


(a) Vertical displacement of trench base

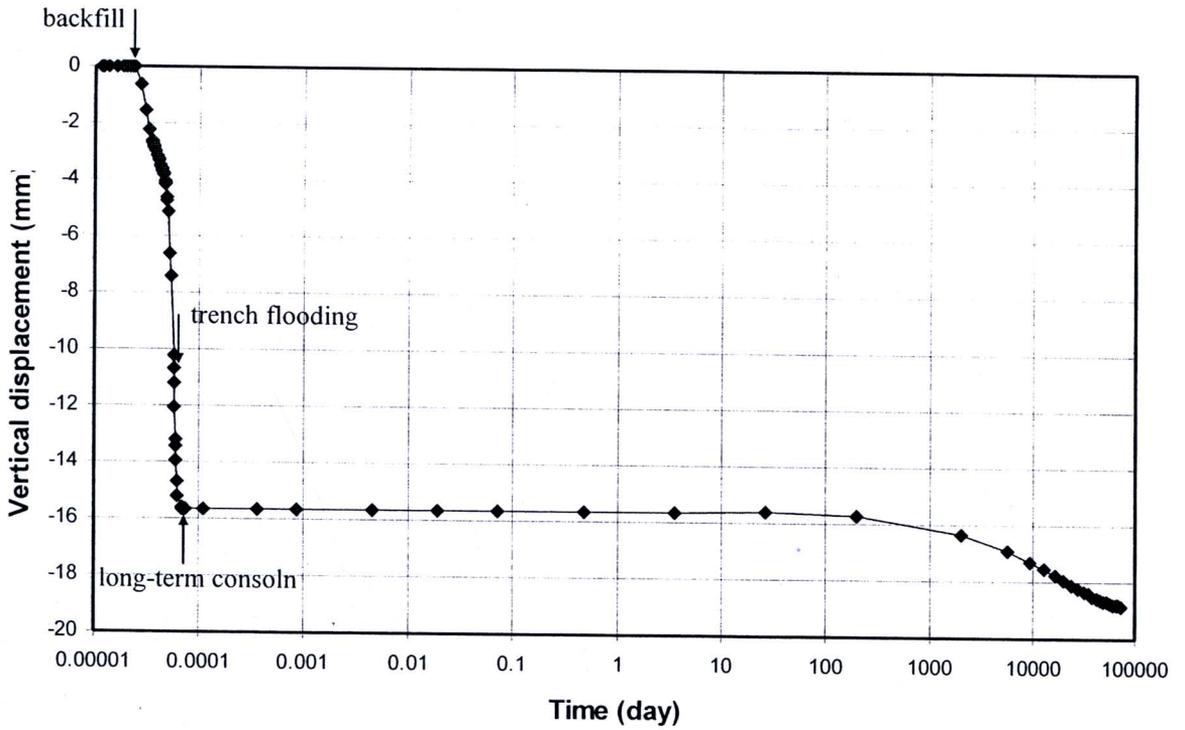


(b) Vertical displacement of pipe base

รูปที่ ก-13 กรณีการวิเคราะห์ D30W15(withcon)

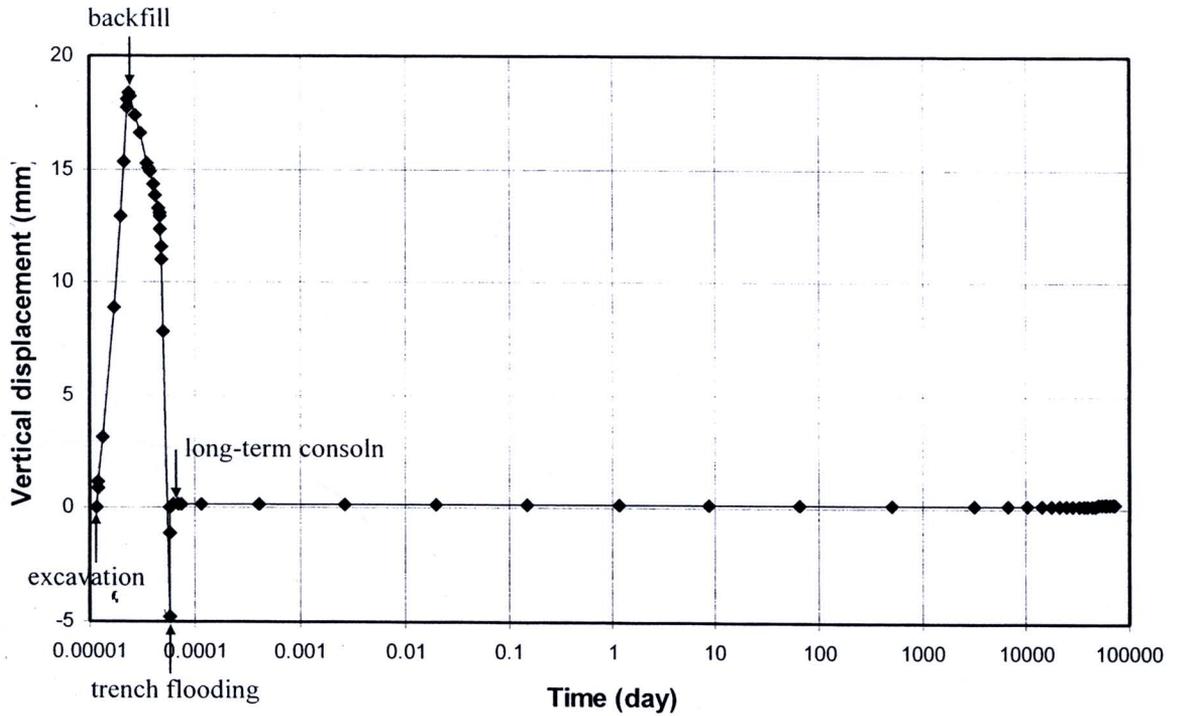


(a) Vertical displacement of trench base

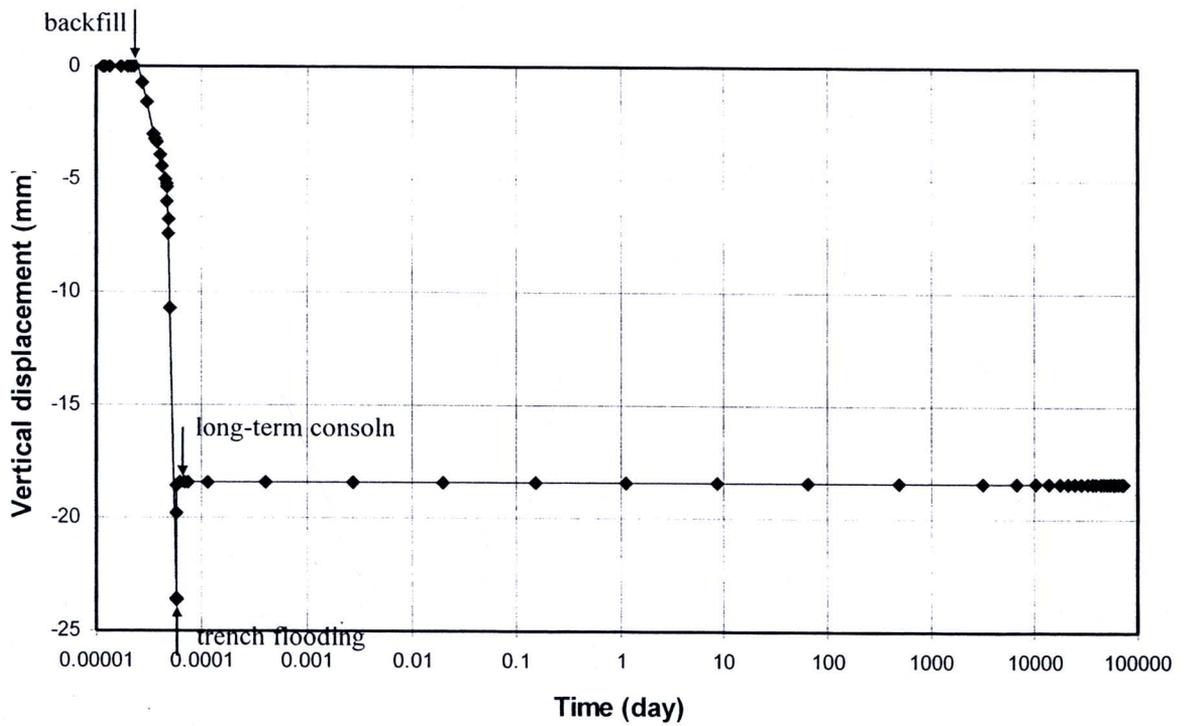


(b) Vertical displacement of pipe base

รูปที่ ก-14 กรณีการวิเคราะห์ D30W15int(withcon)

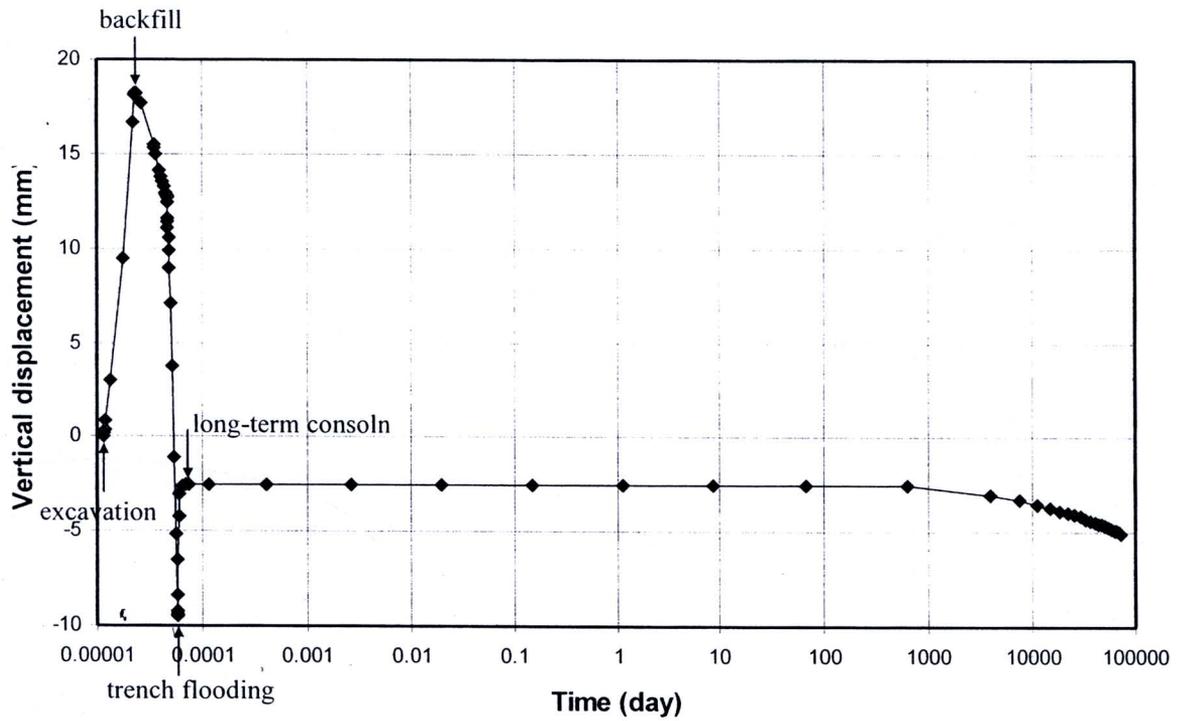


(a) Vertical displacement of trench base

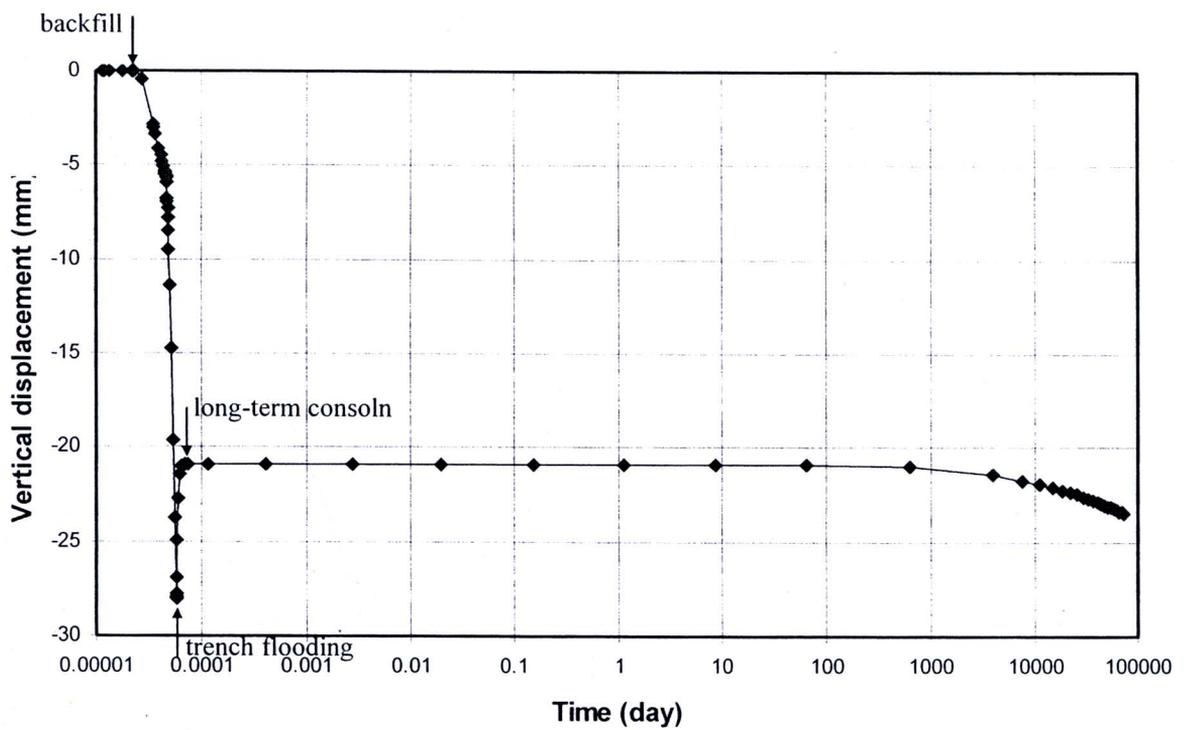


(b) Vertical displacement of pipe base

รูปที่ ก-15 กรณีการวิเคราะห์ D30W20(withcon)



(a) Vertical displacement of trench base

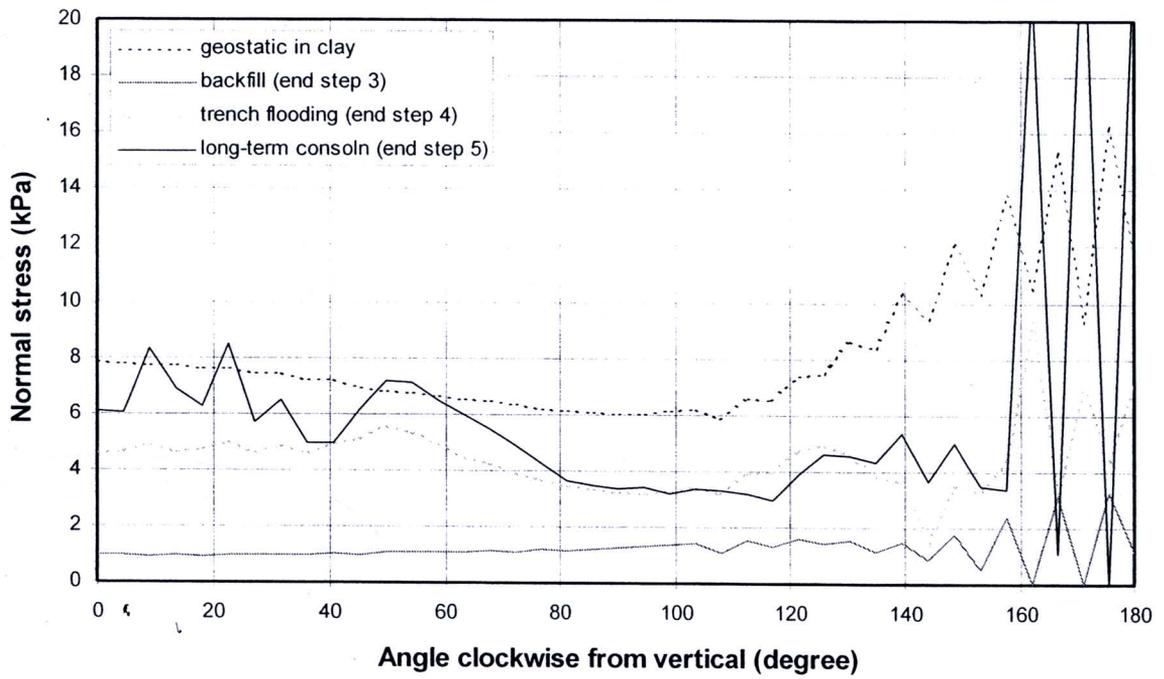


(b) Vertical displacement of pipe base

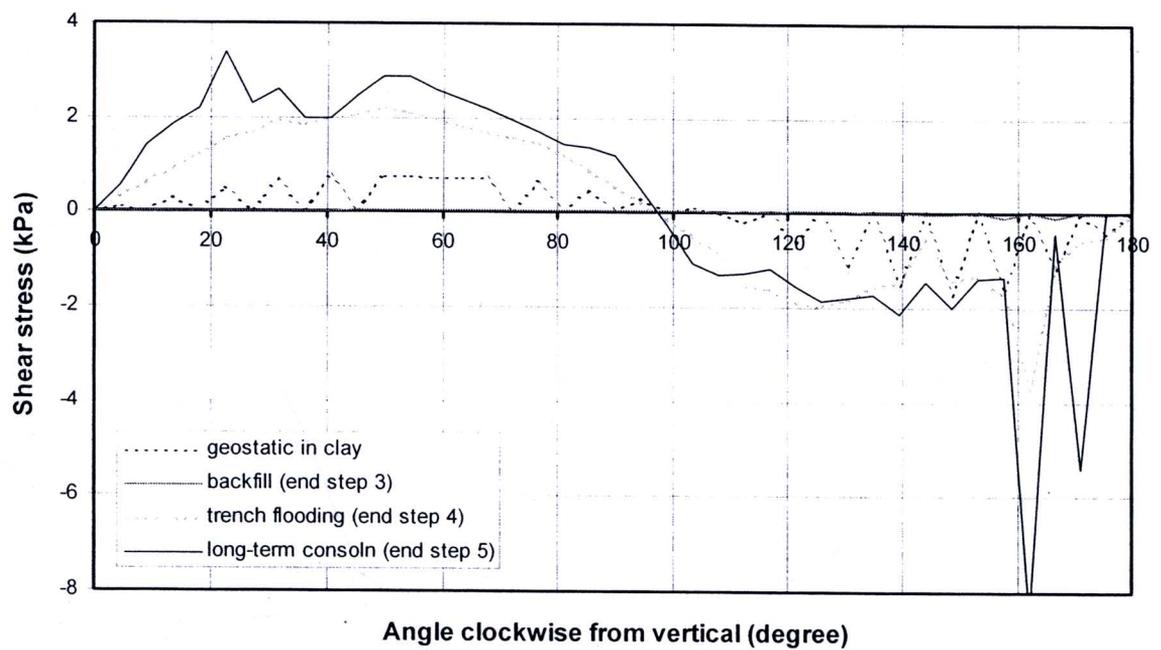
รูปที่ ก-16 กรณีการวิเคราะห์ D30W20int(withcon)

ภาคผนวก ข

ความเค็มที่กระทำต่อท่อ

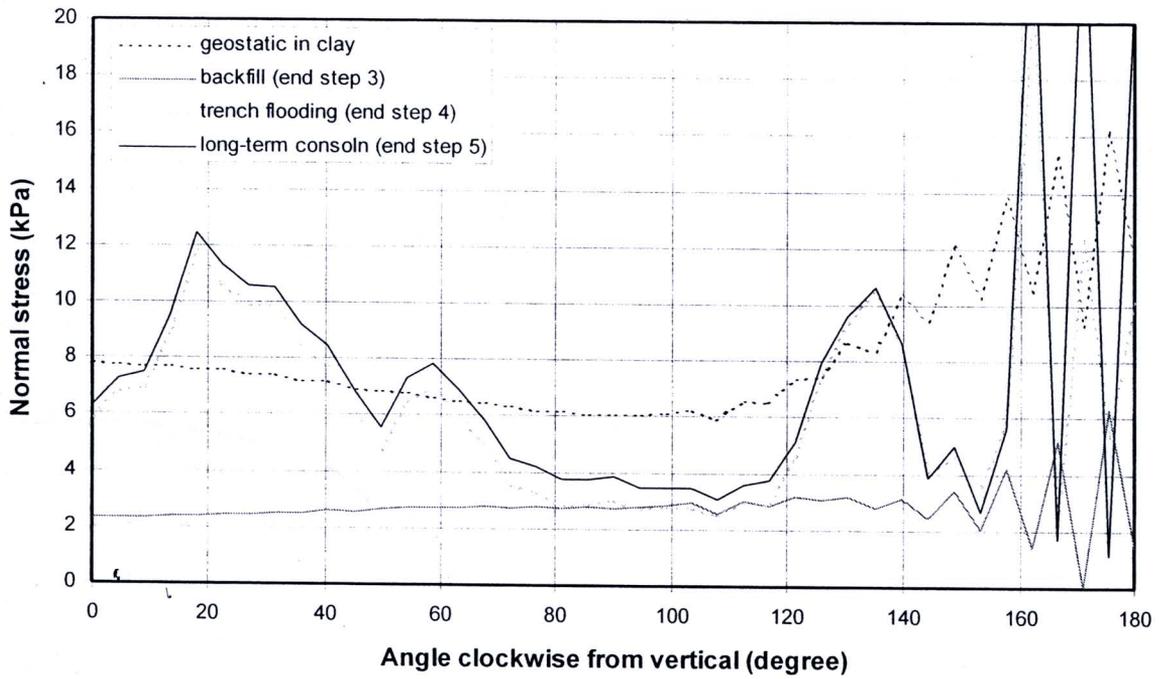


(a) Normal stress

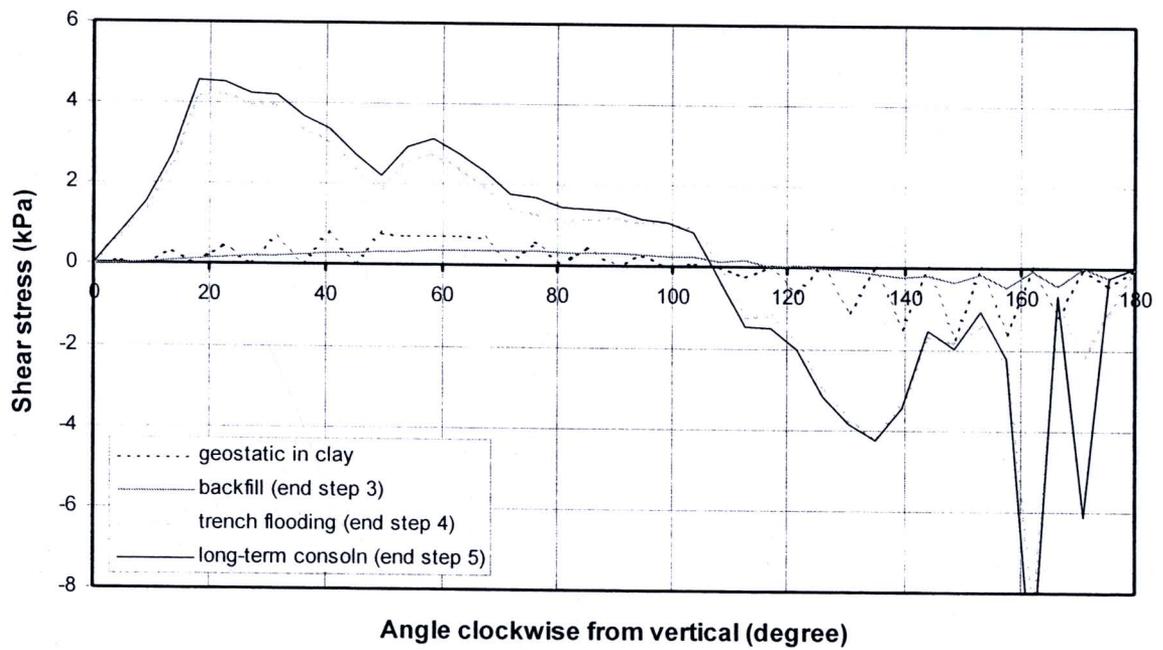


(b) Shear stress

รูปที่ ข-1 การวิเคราะห์ D20W15(nocon)

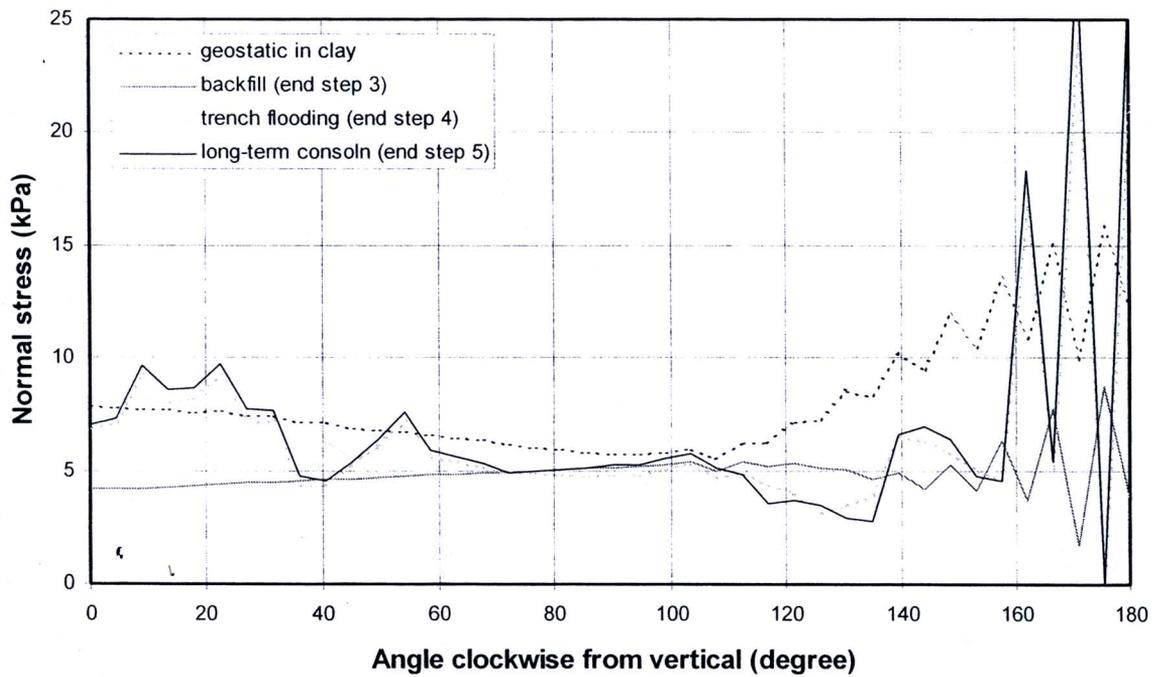


(a) Normal stress

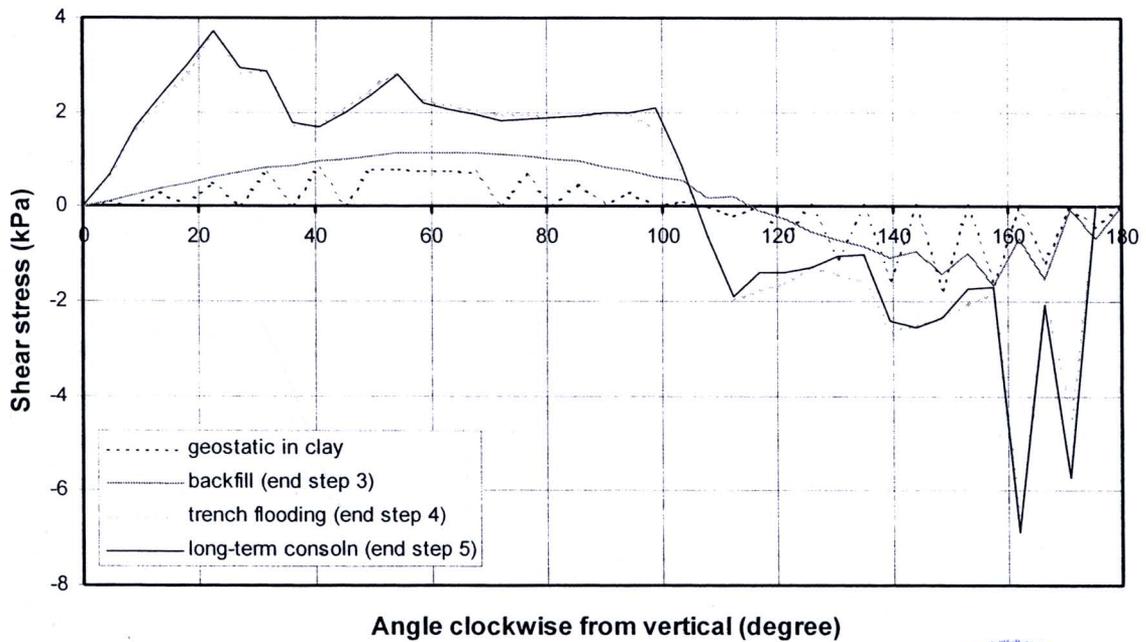


(b) Shear stress

รูปที่ ข-2 กรณีการวิเคราะห์ D20W15int(nocon)



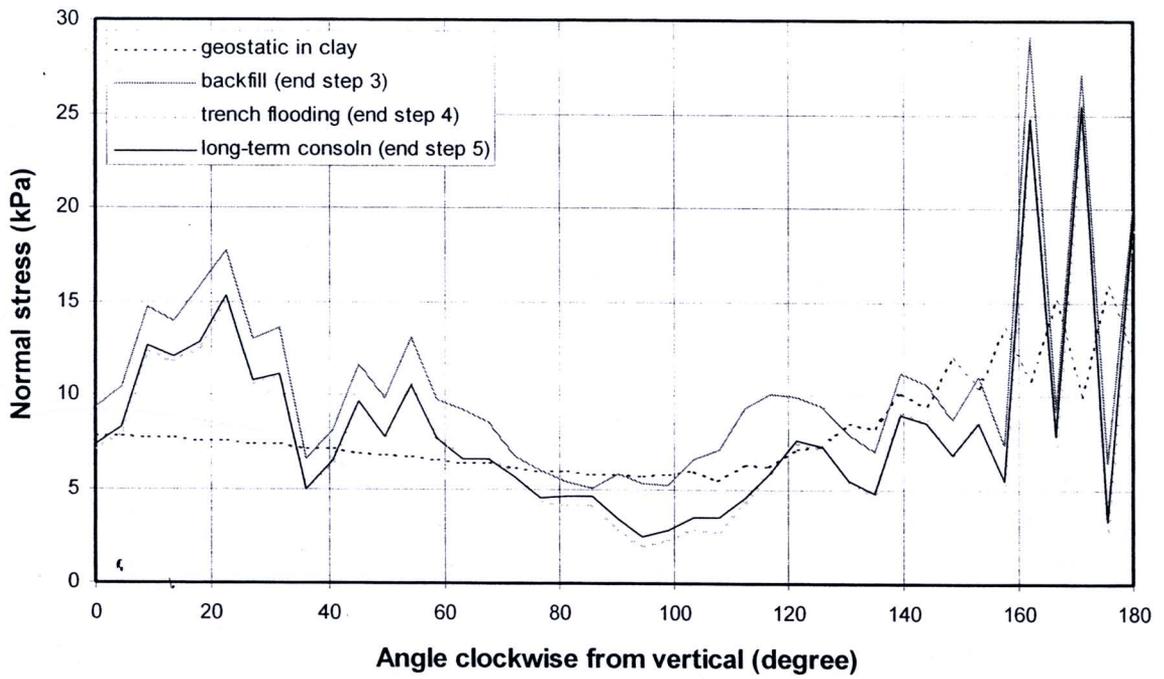
(a) Normal stress



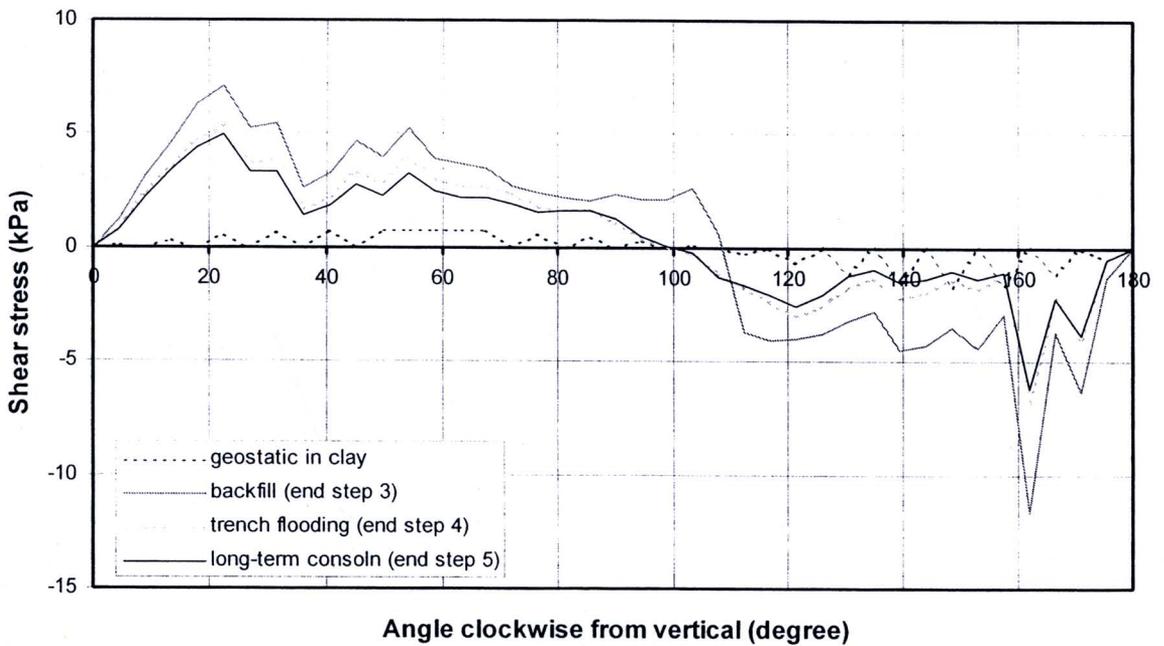
(b) Shear stress

รูปที่ ข-3 กรณีการวิเคราะห์ D20W20(nocon)



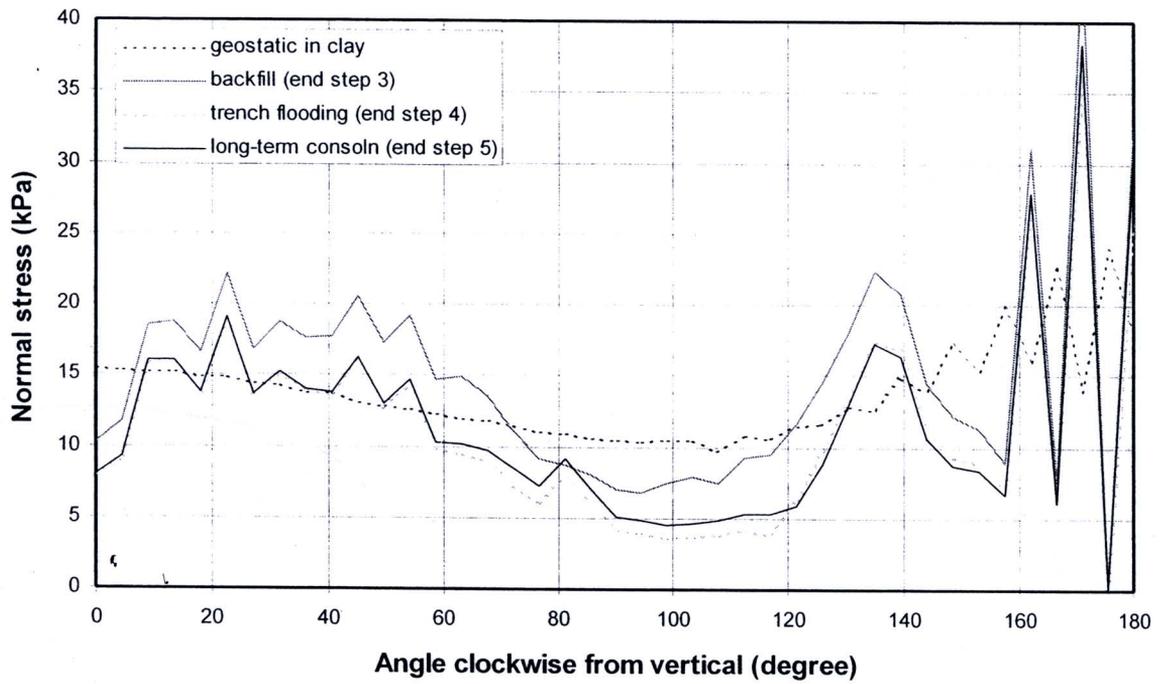


(a) Normal stress

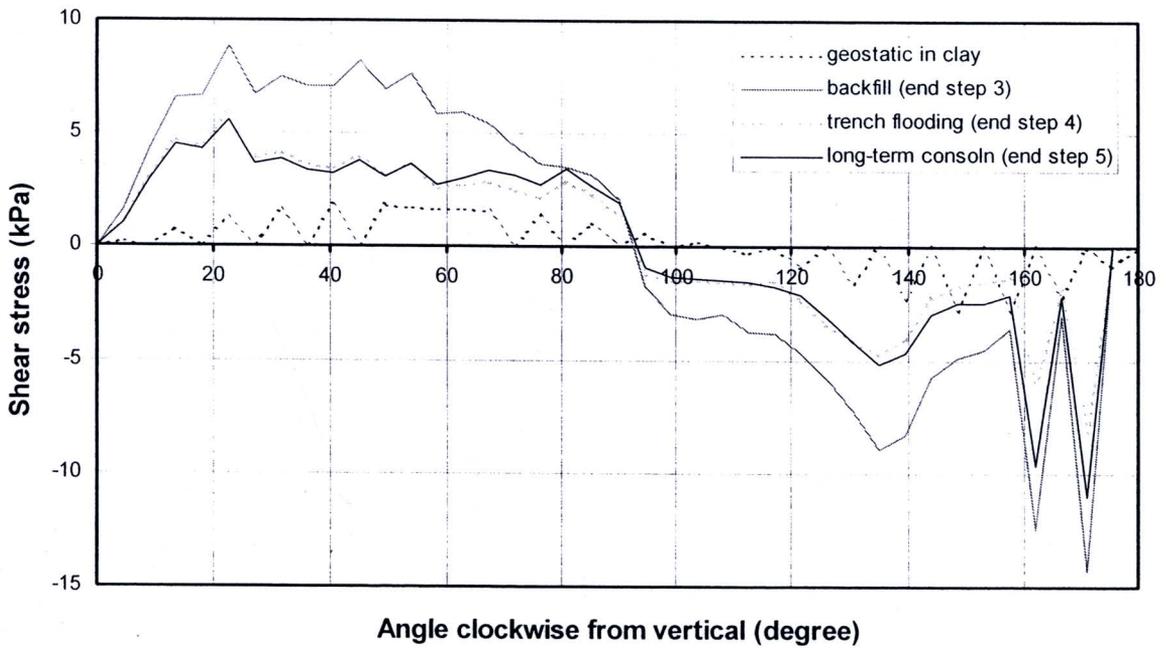


(b) Shear stress

รูปที่ ๔-4 กรณีการวิเคราะห์ D20W20int(nocon)

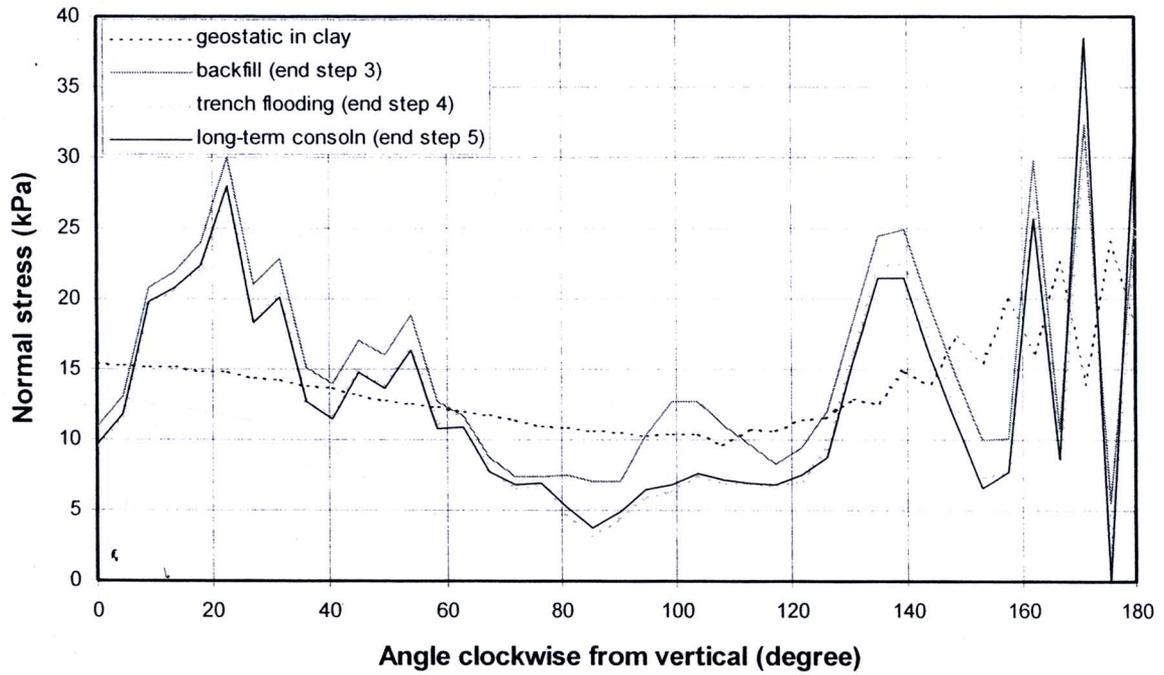


(a) Normal stress

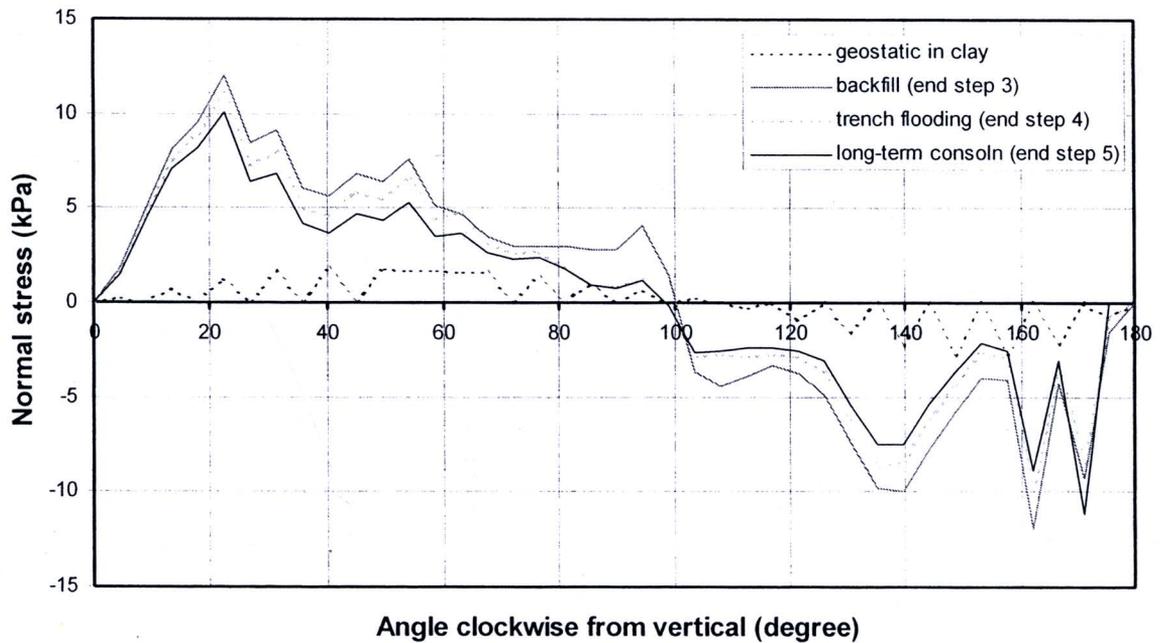


(b) Shear stress

รูปที่ ข-5 กรณีการวิเคราะห์ D30W15(nocon)

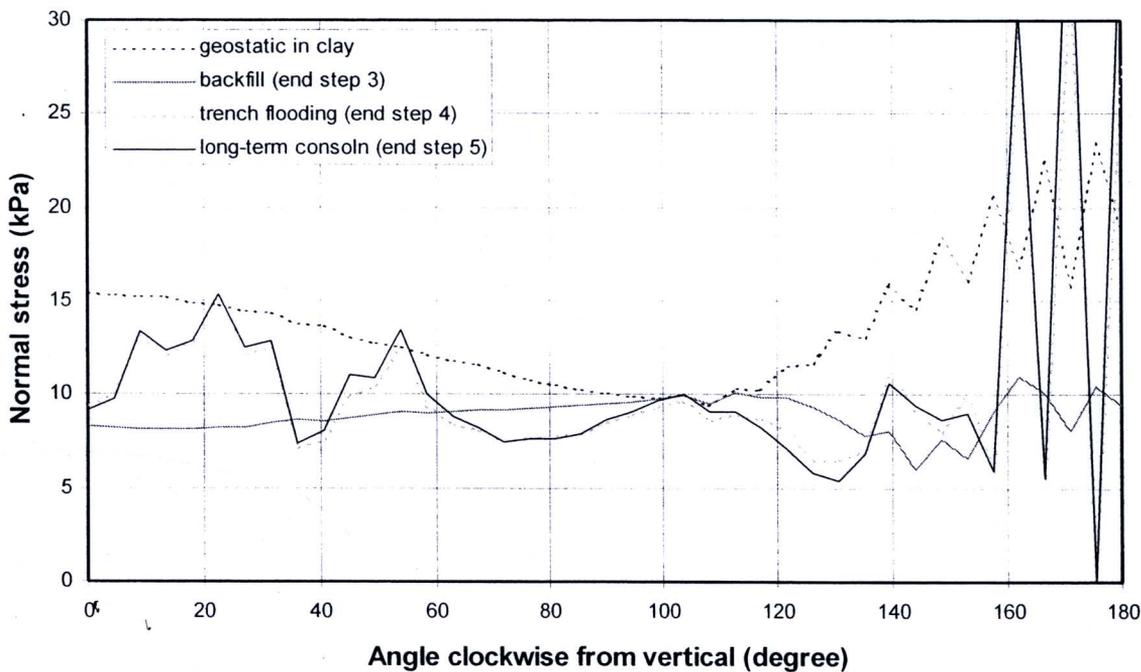


(a) Normal stress

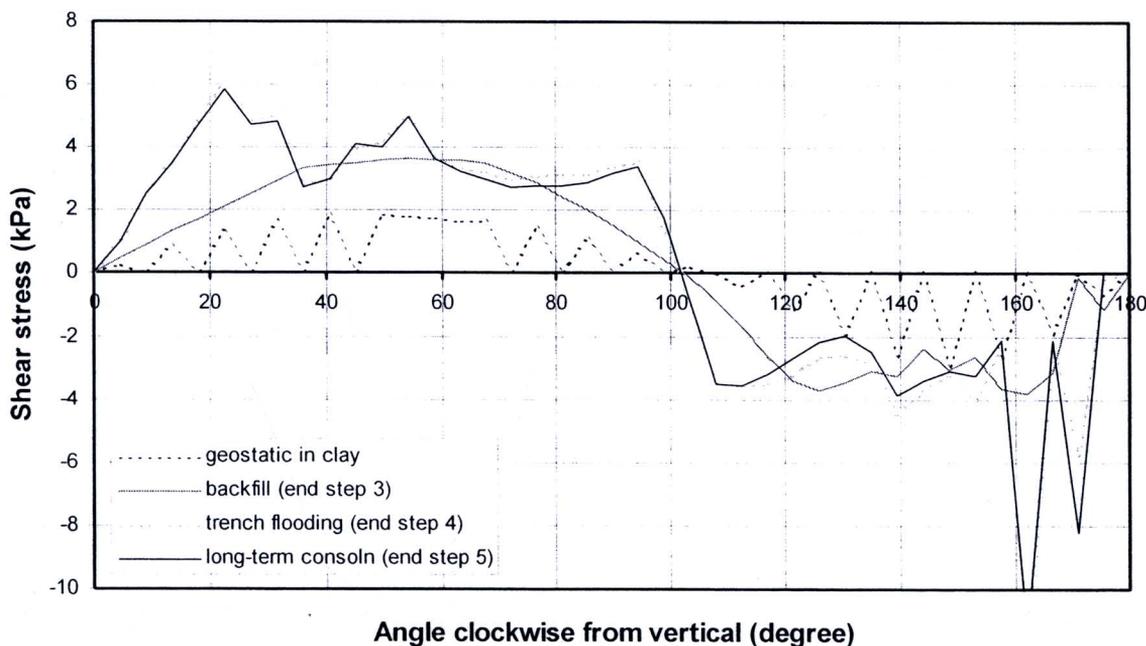


(b) Shear stress

รูปที่ ข-6 กรณีการวิเคราะห์ D30W15int(nocon)

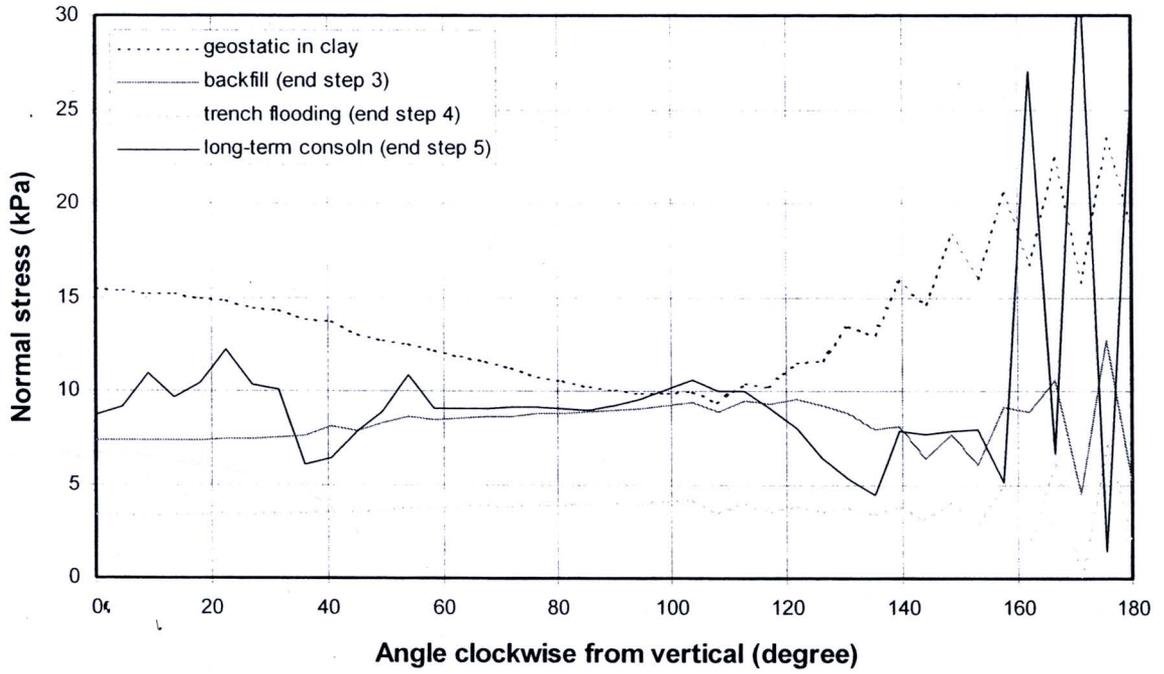


(a) Normal stress

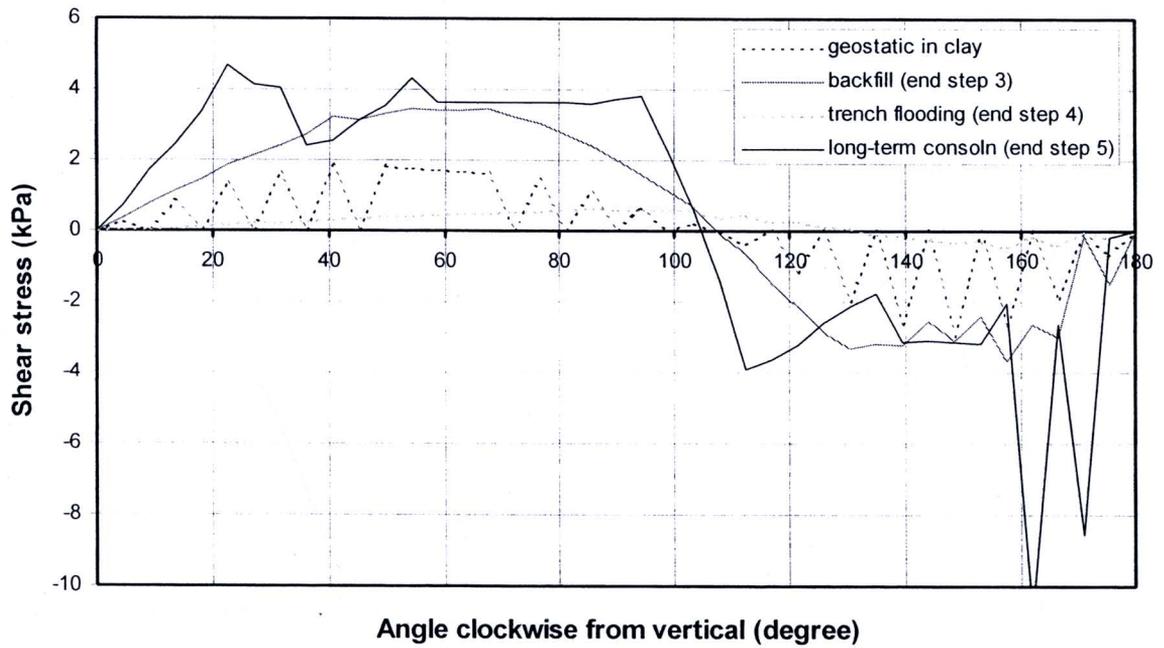


(b) Shear stress

รูปที่ ข-7 กรณีการวิเคราะห์ D30W20(nocon)

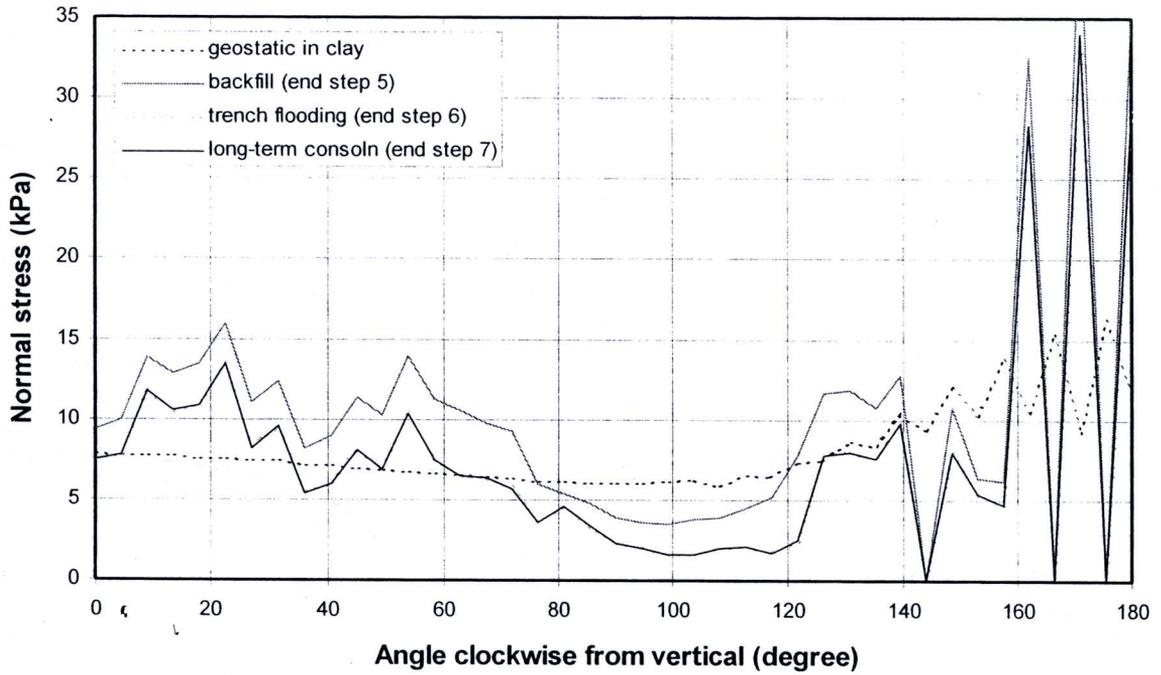


(a) Normal stress

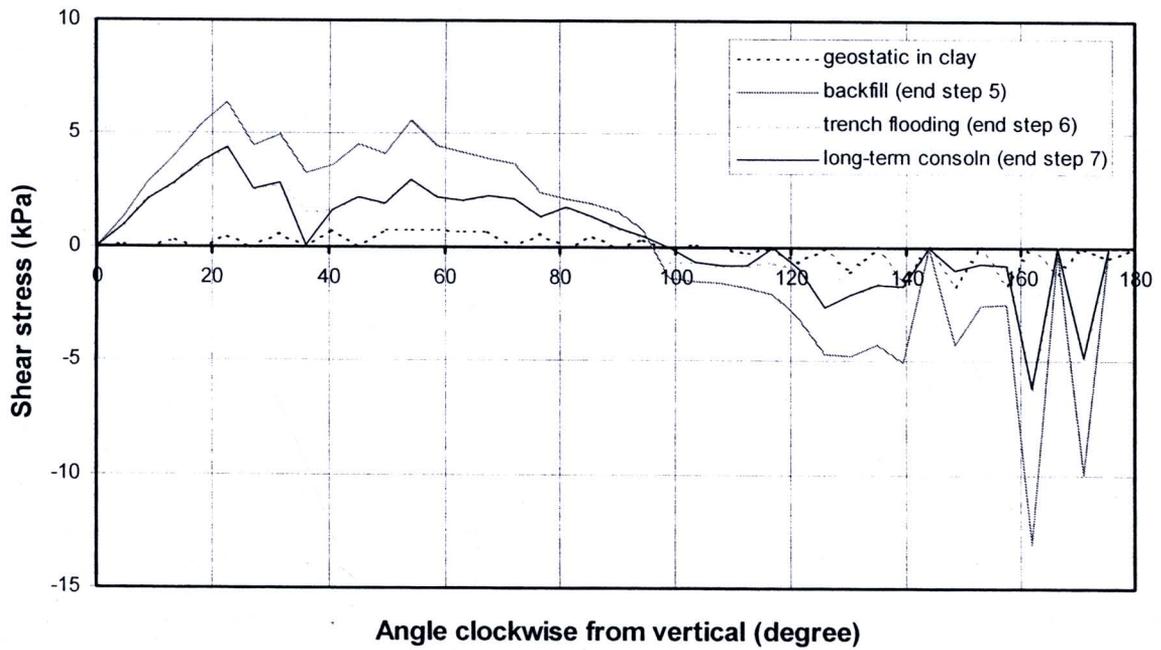


(b) Shear stress

รูปที่ ข-8 กรณีการวิเคราะห์ D30W20int(nocon)

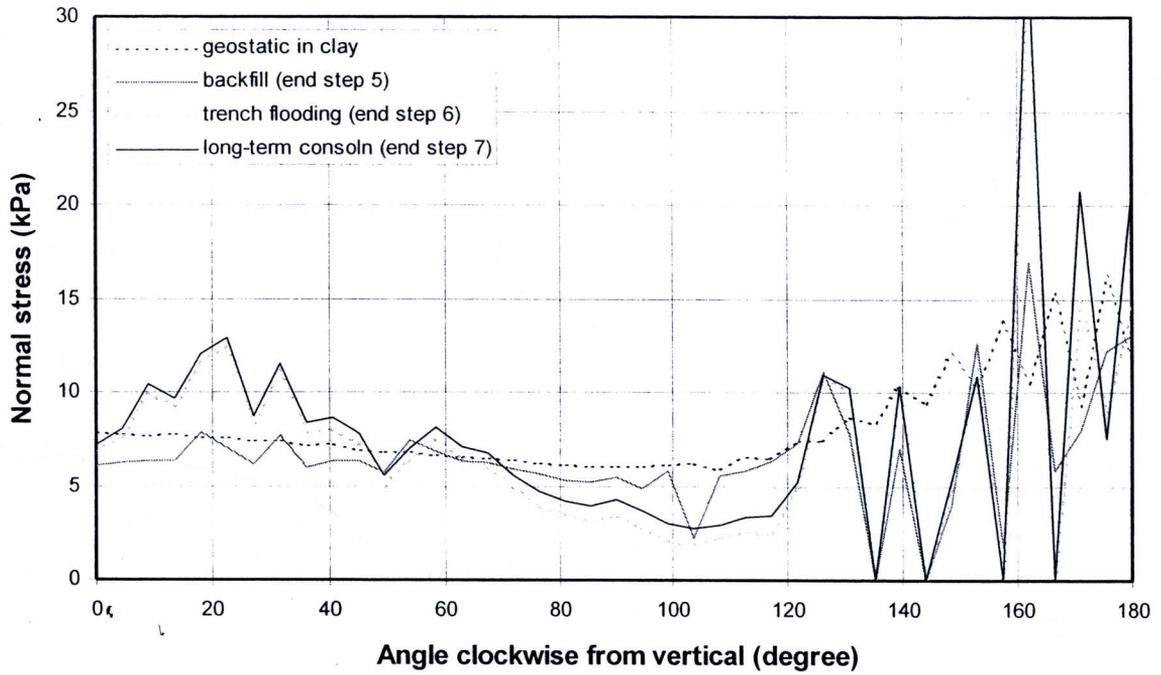


(a) Normal stress

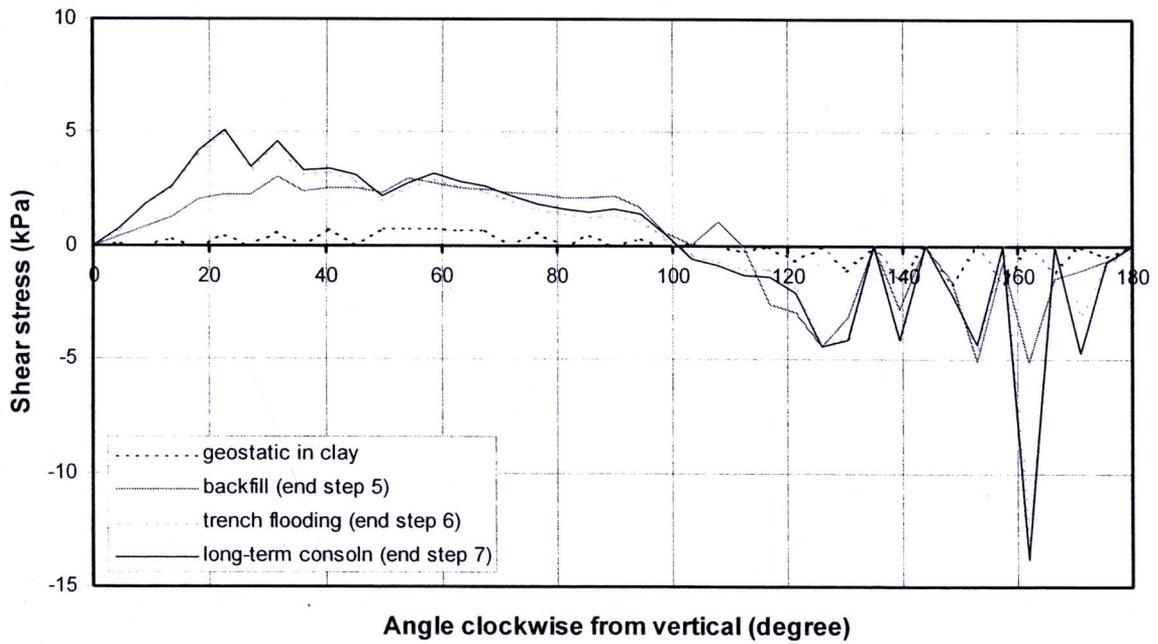


(b) Shear stress

รูปที่ ข-9 กรณีการวิเคราะห์ D20W15(withcon)

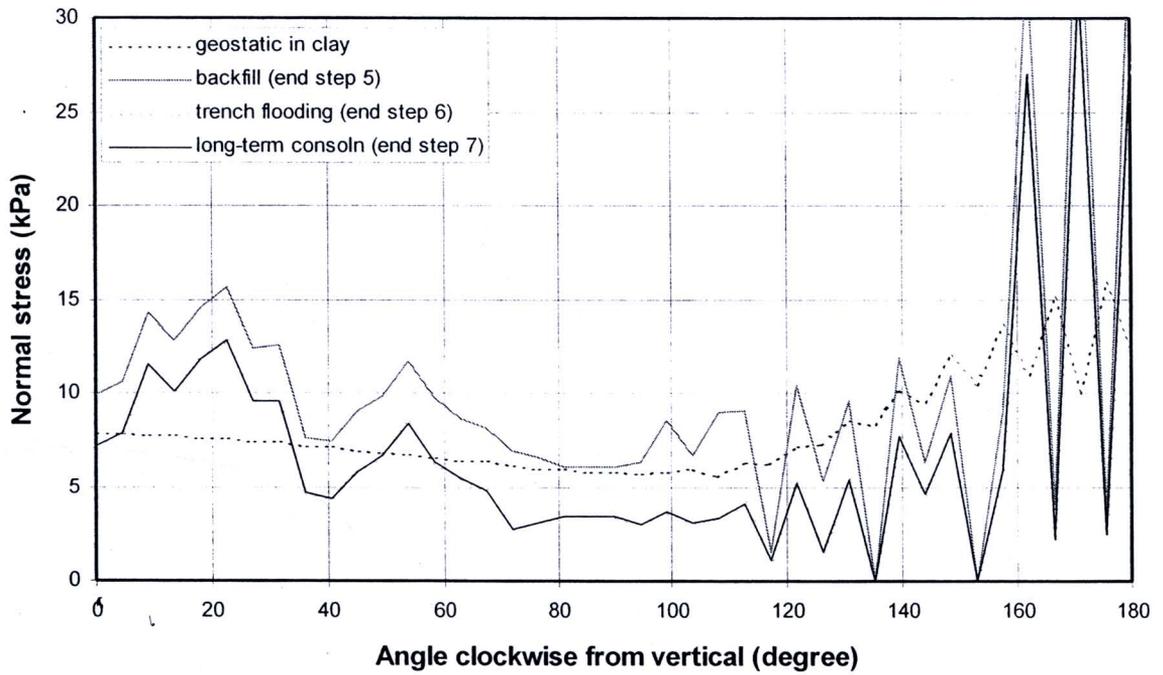


(a) Normal stress

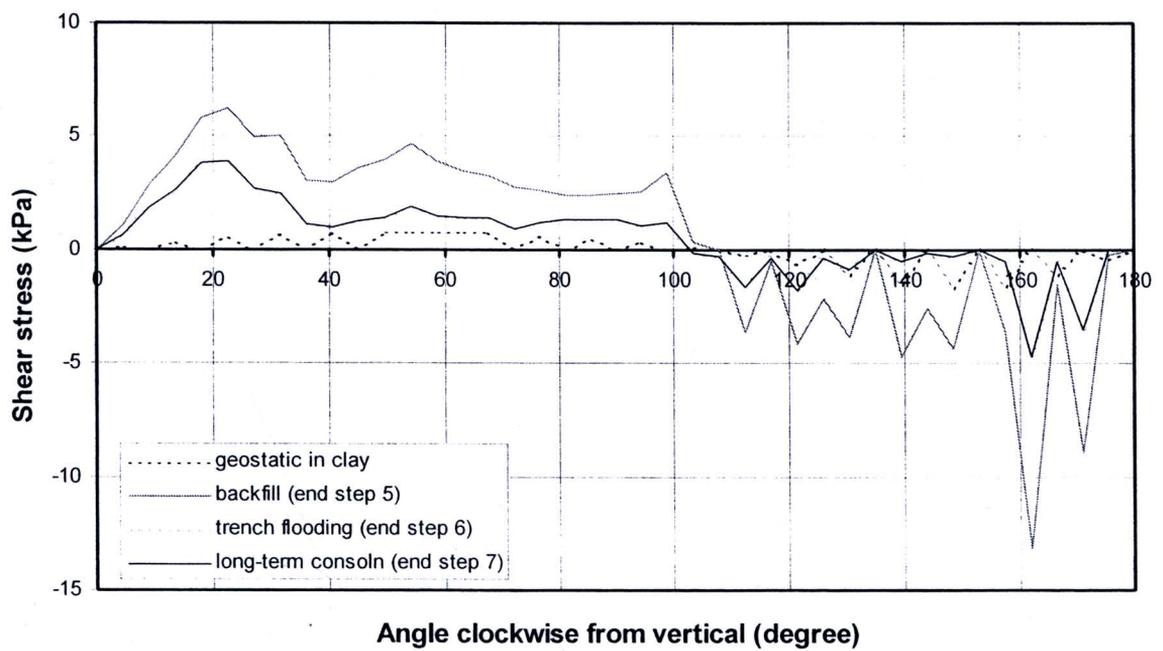


(b) Shear stress

รูปที่ ข-10 กรณีการวิเคราะห์ D20W15int(withcon)

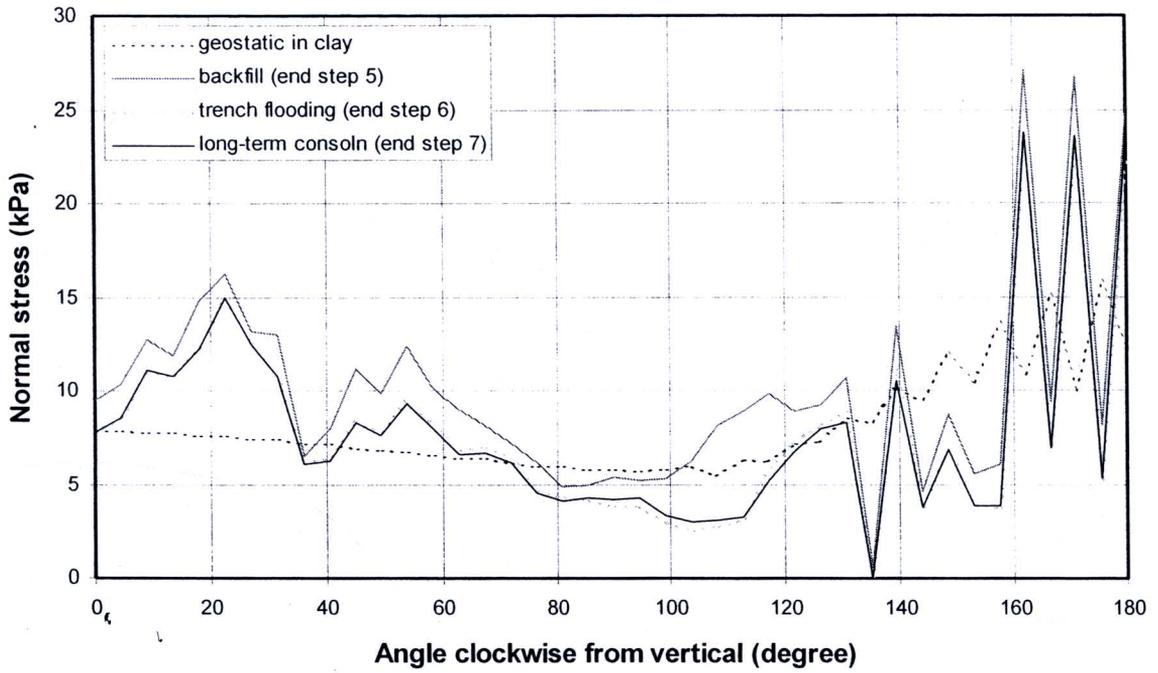


(a) Normal stress

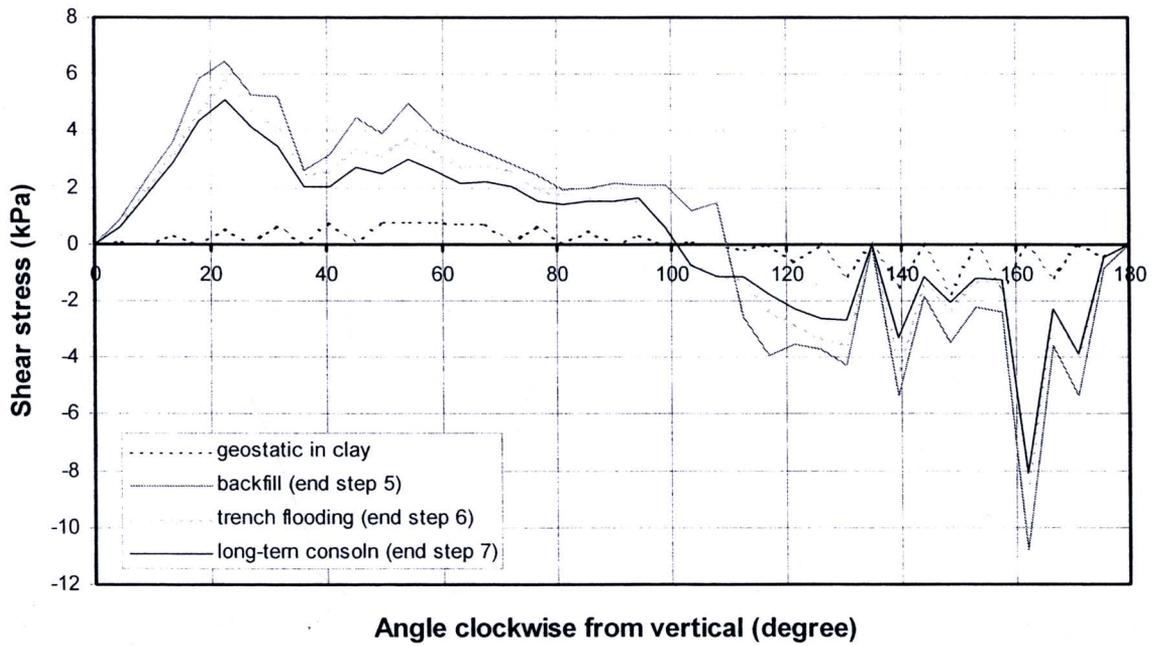


(b) Shear stress

รูปที่ ข-11 กรณีการวิเคราะห์ D20W20(withcon)

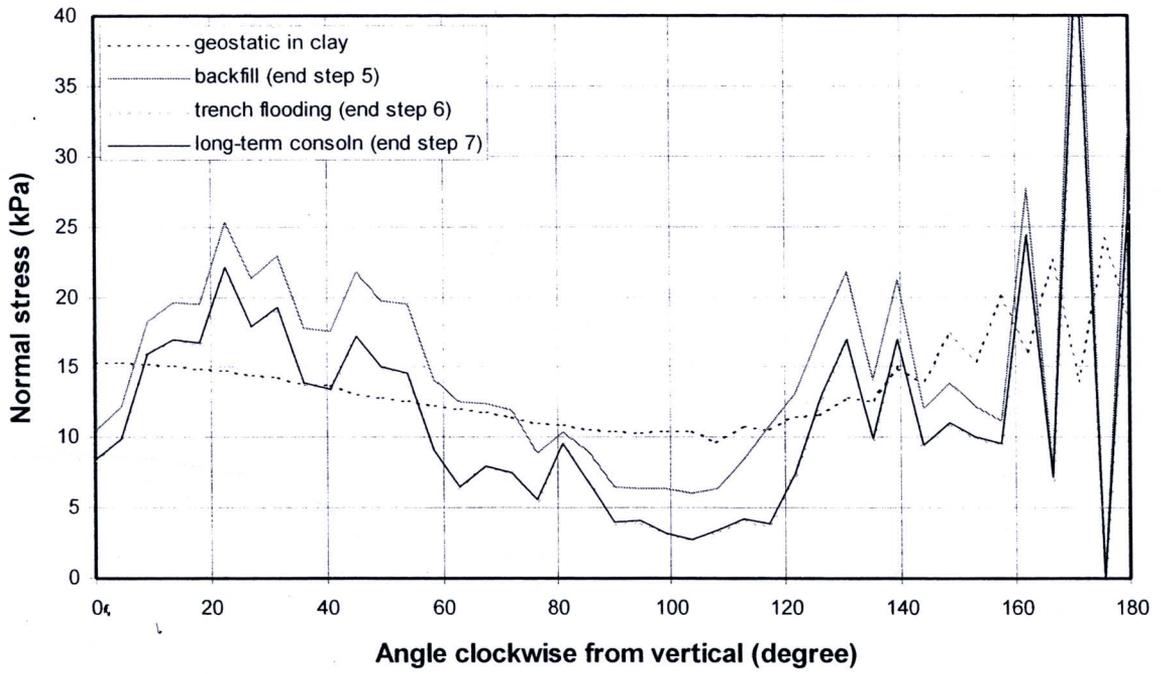


(a) Normal stress

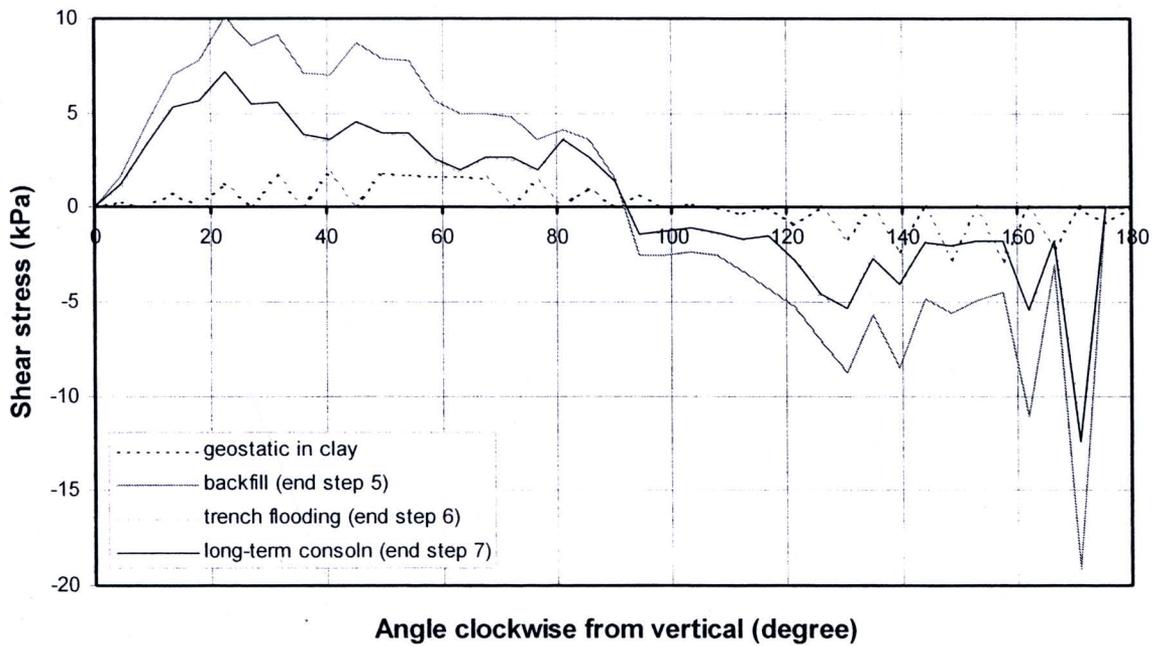


(b) Shear stress

รูปที่ ข-12 กรณีการวิเคราะห์ D20W20int(withcon)

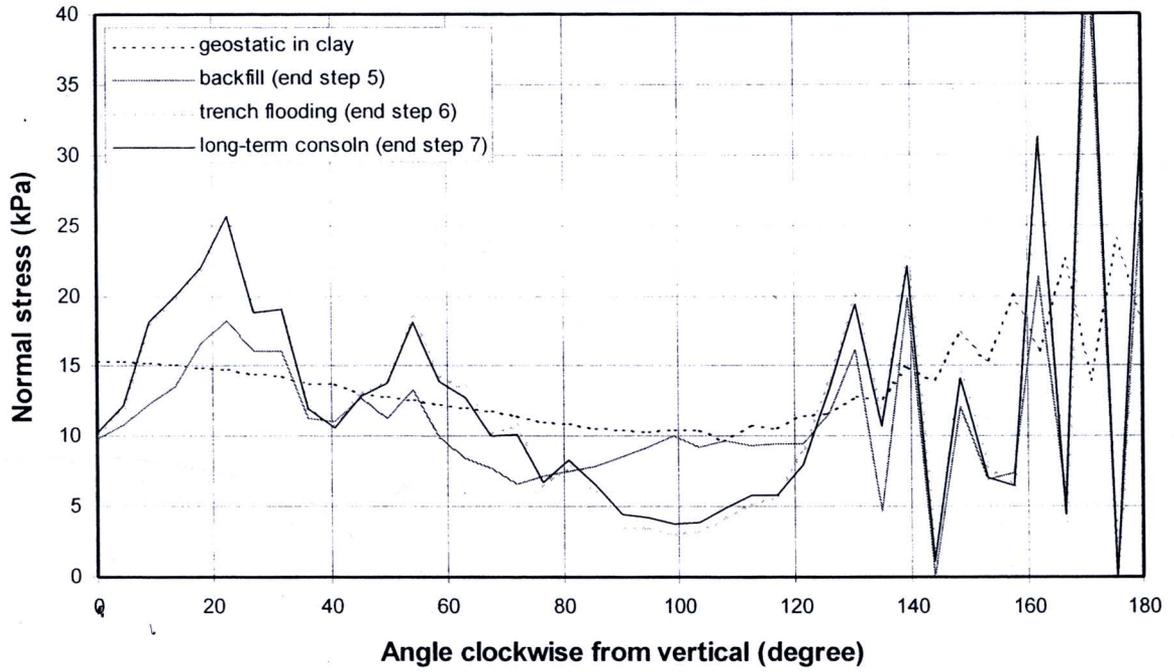


(a) Normal stress

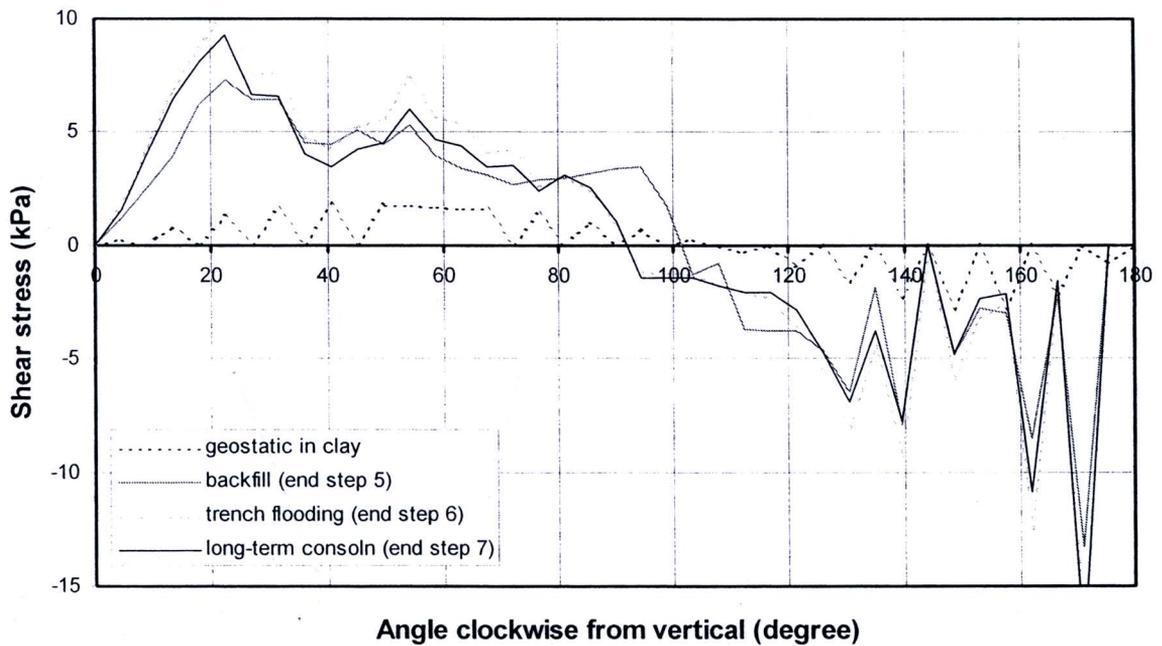


(b) Shear stress

รูปที่ ข-13 กรณีการวิเคราะห์ D30W15(withcon)

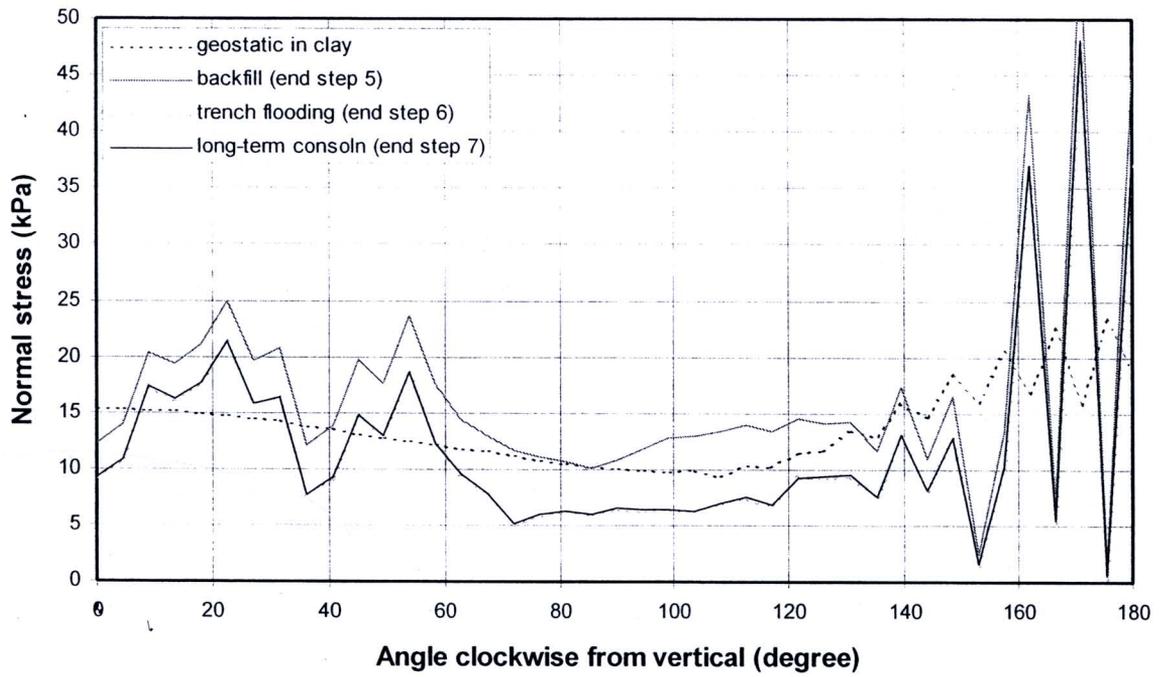


(a) Normal stress

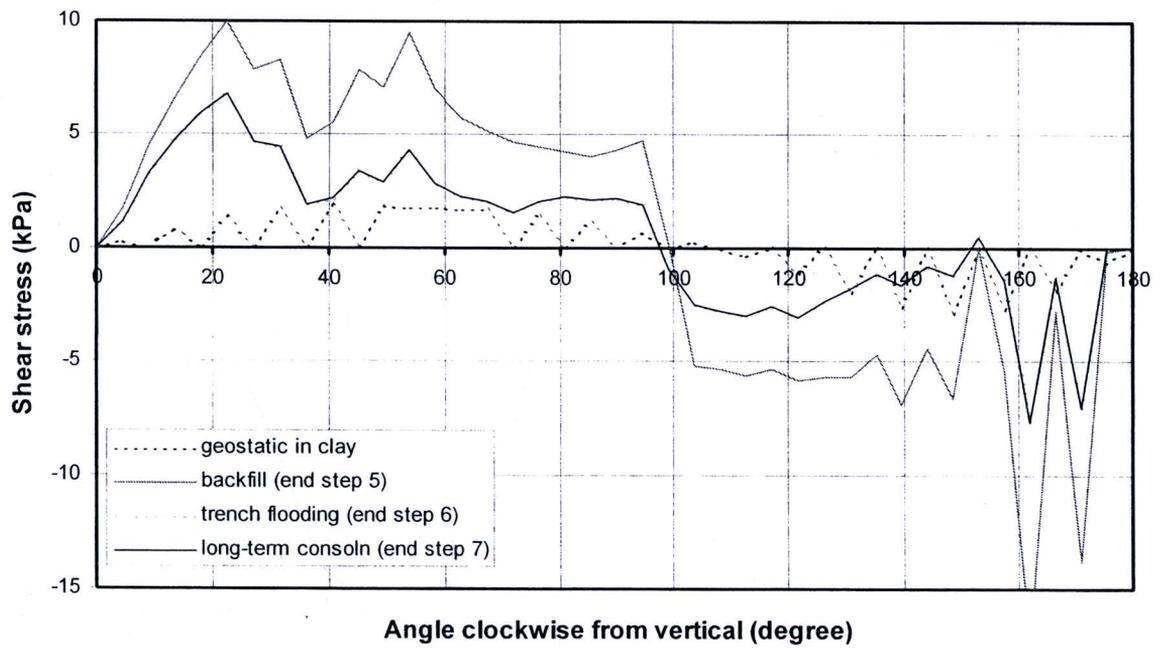


(b) Shear stress

รูปที่ ข-14 กรณีการวิเคราะห์ D30W15int(withcon)

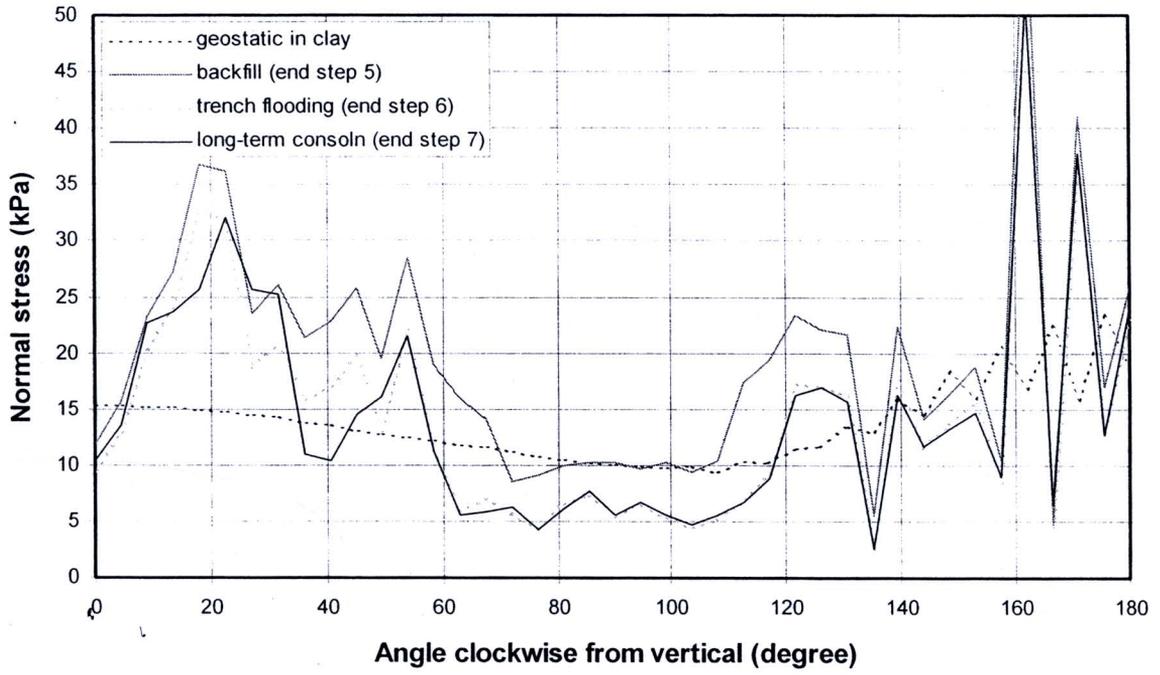


(a) Normal stress

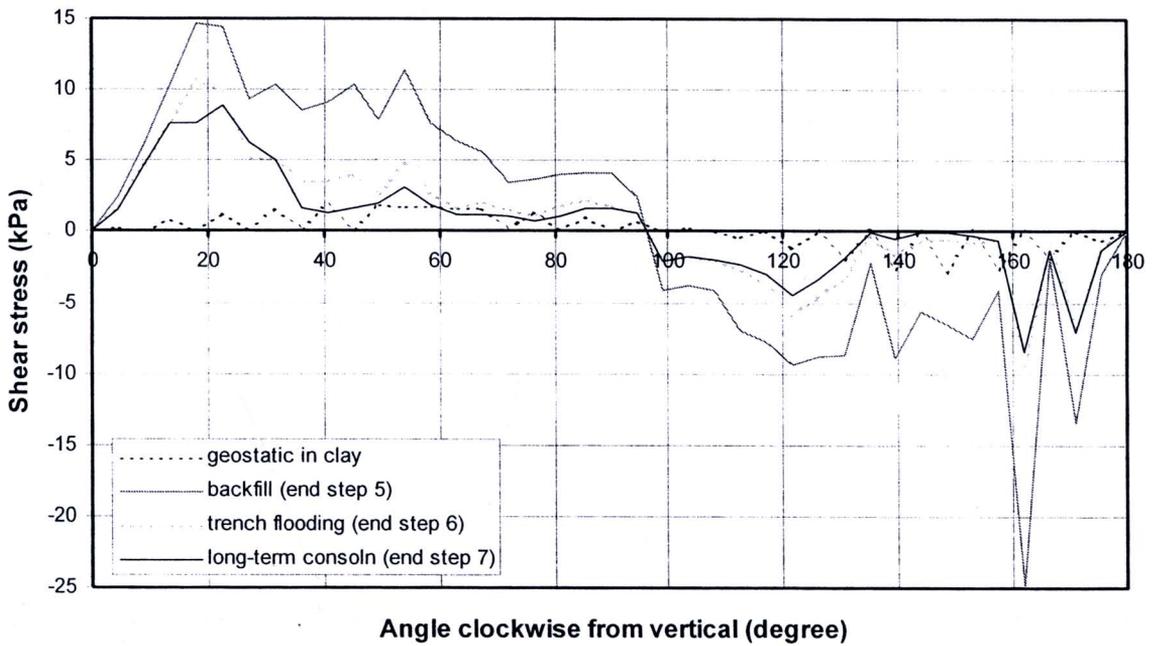


(b) Shear stress

รูปที่ ข-15 กรณีการวิเคราะห์ D30W20(withcon)



(a) Normal stress



(b) Shear stress

รูปที่ ข-16 กรณีการวิเคราะห์ D30W20int(withcon)



