

Appendix to report:

SBJ-33-C5-OON-22-RE-022
MARINE GEOTECHNICAL DESIGN

Appendix title:

APPENDIX F: PLAXIS – SUCTION ANCHOR, FAILURE MODES

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Prepared by: Johannes Mydland
Controlled by: Knut-Helge Bergseth
Approved by: Kolbjørn Høyland

CONCEPT DEVELOPMENT FLOATING BRIDGE E39 BJØRNAFJORDEN



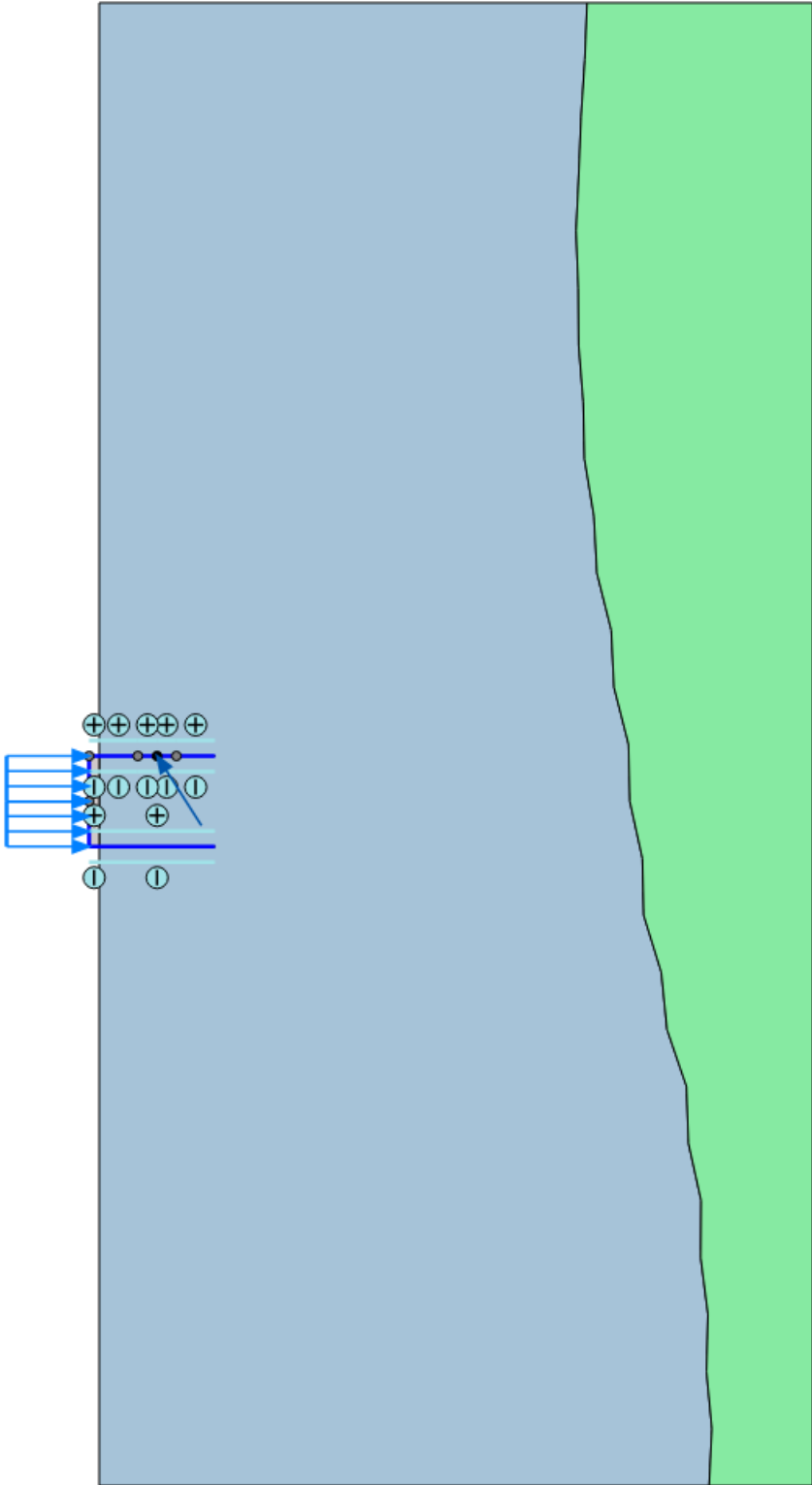
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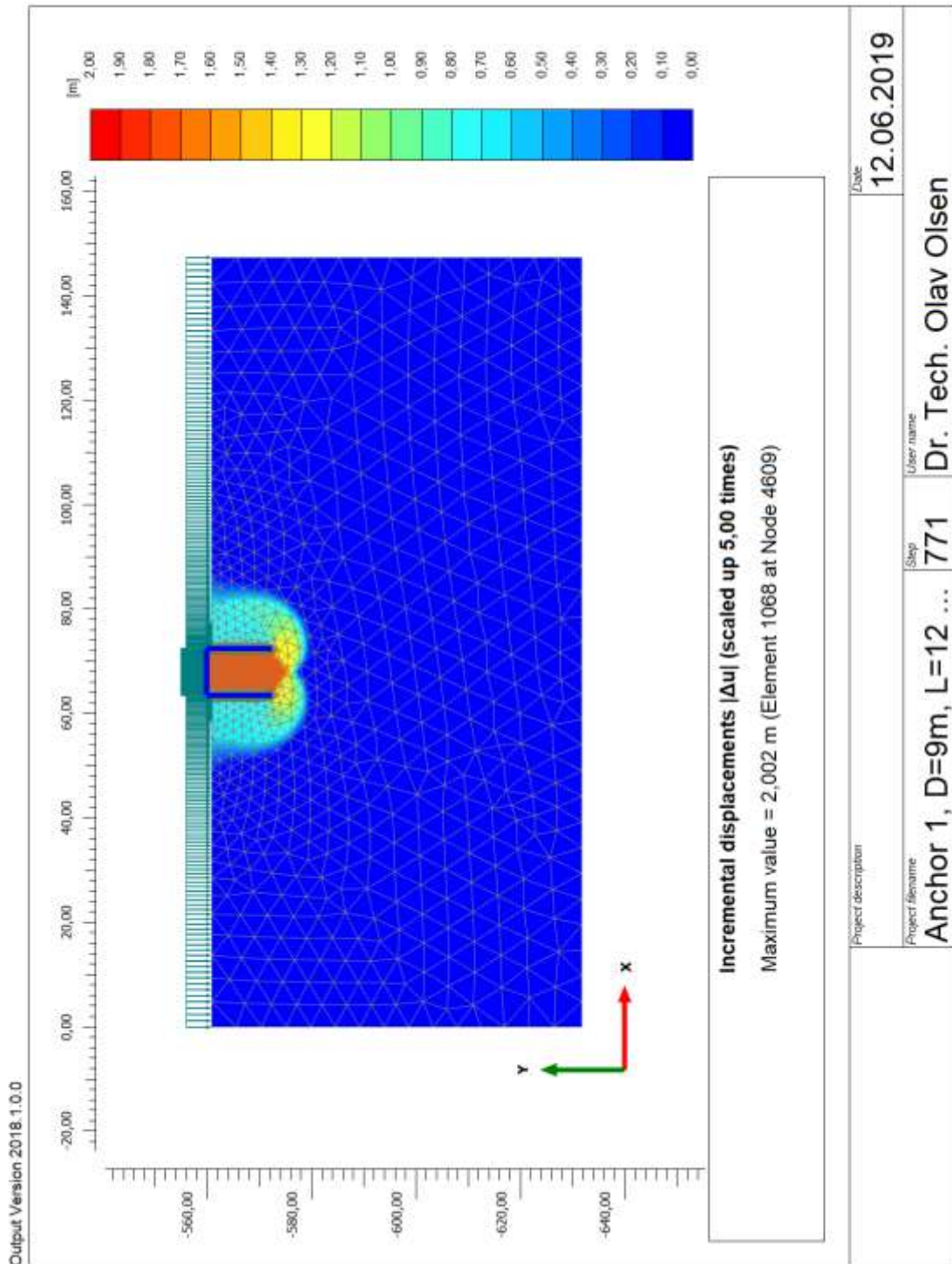
1 ANCHOR PROFILE 1

1.1 Intact soil

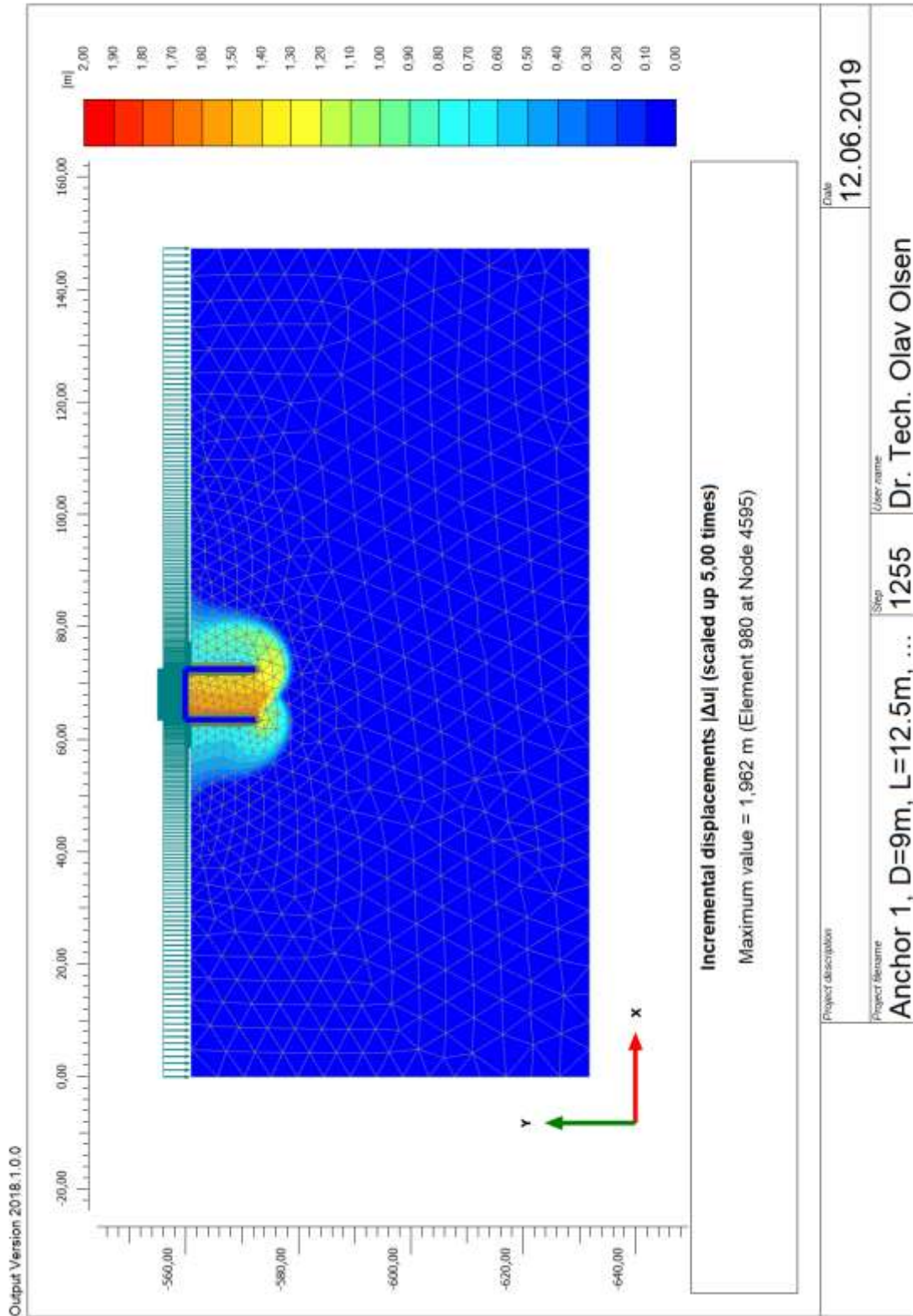
1.1.1 Model



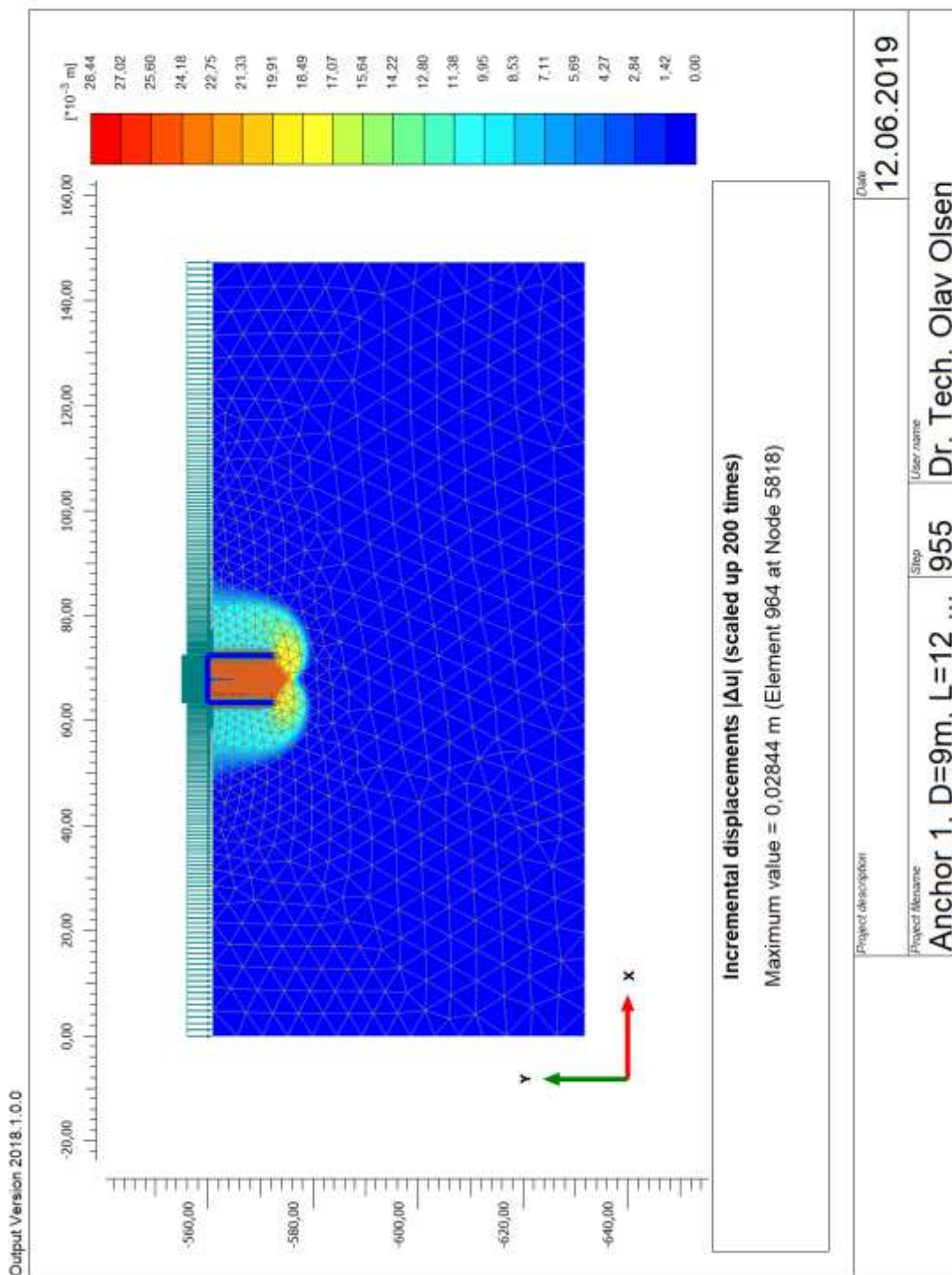
1.1.2 Undrained local slope stability



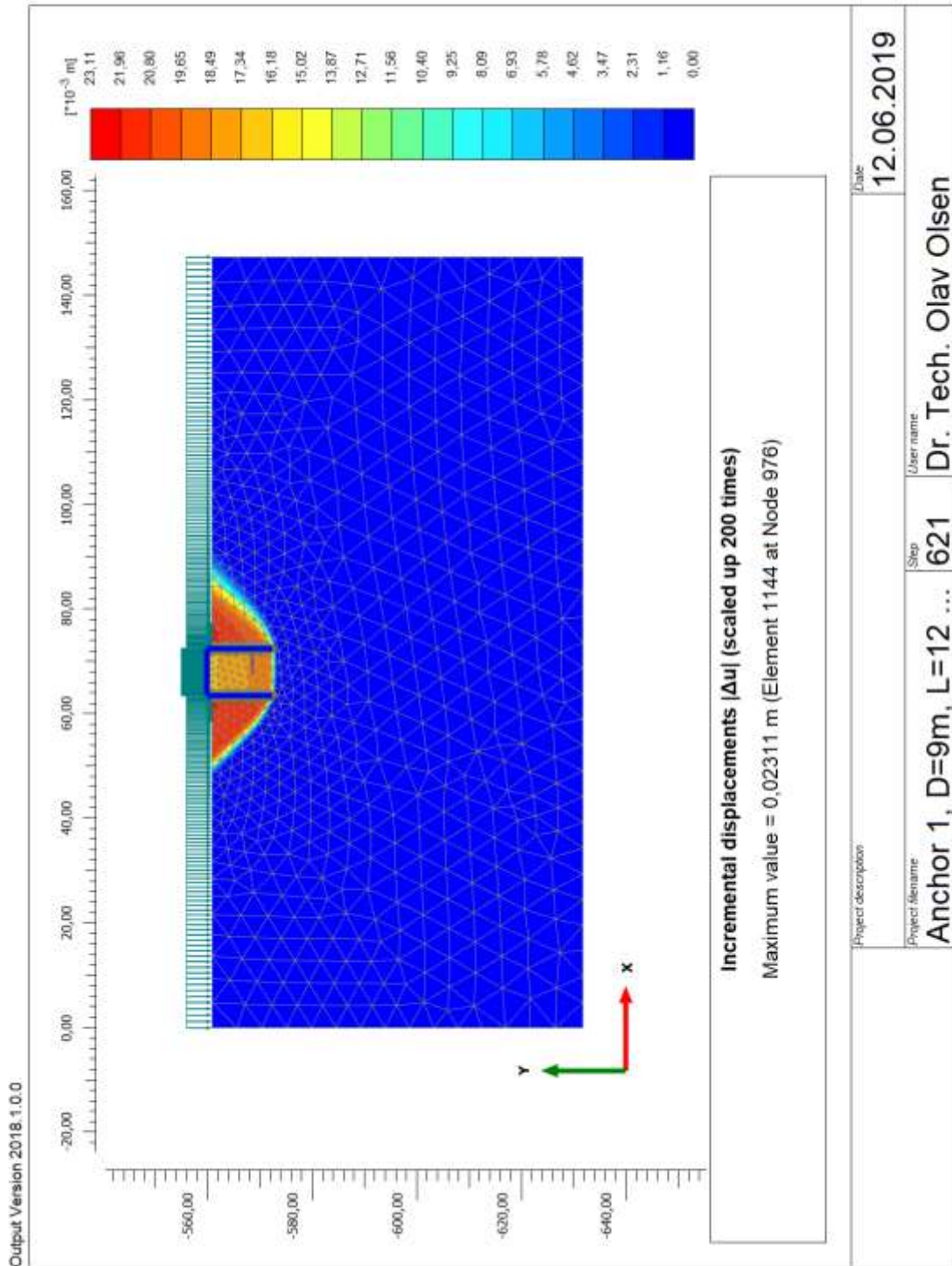
1.1.3 Drained local slope stability



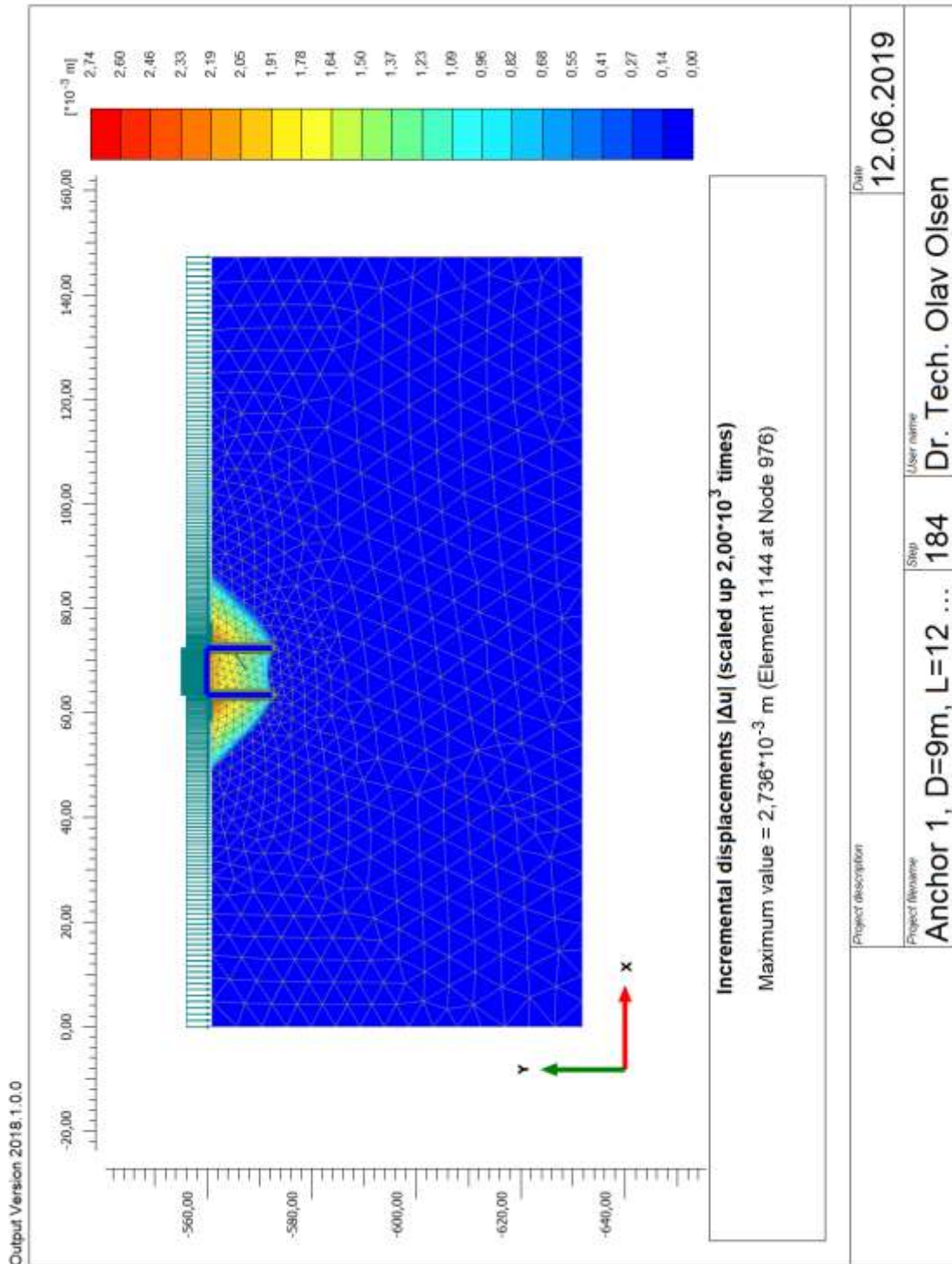
1.1.4 Vertical failure mode



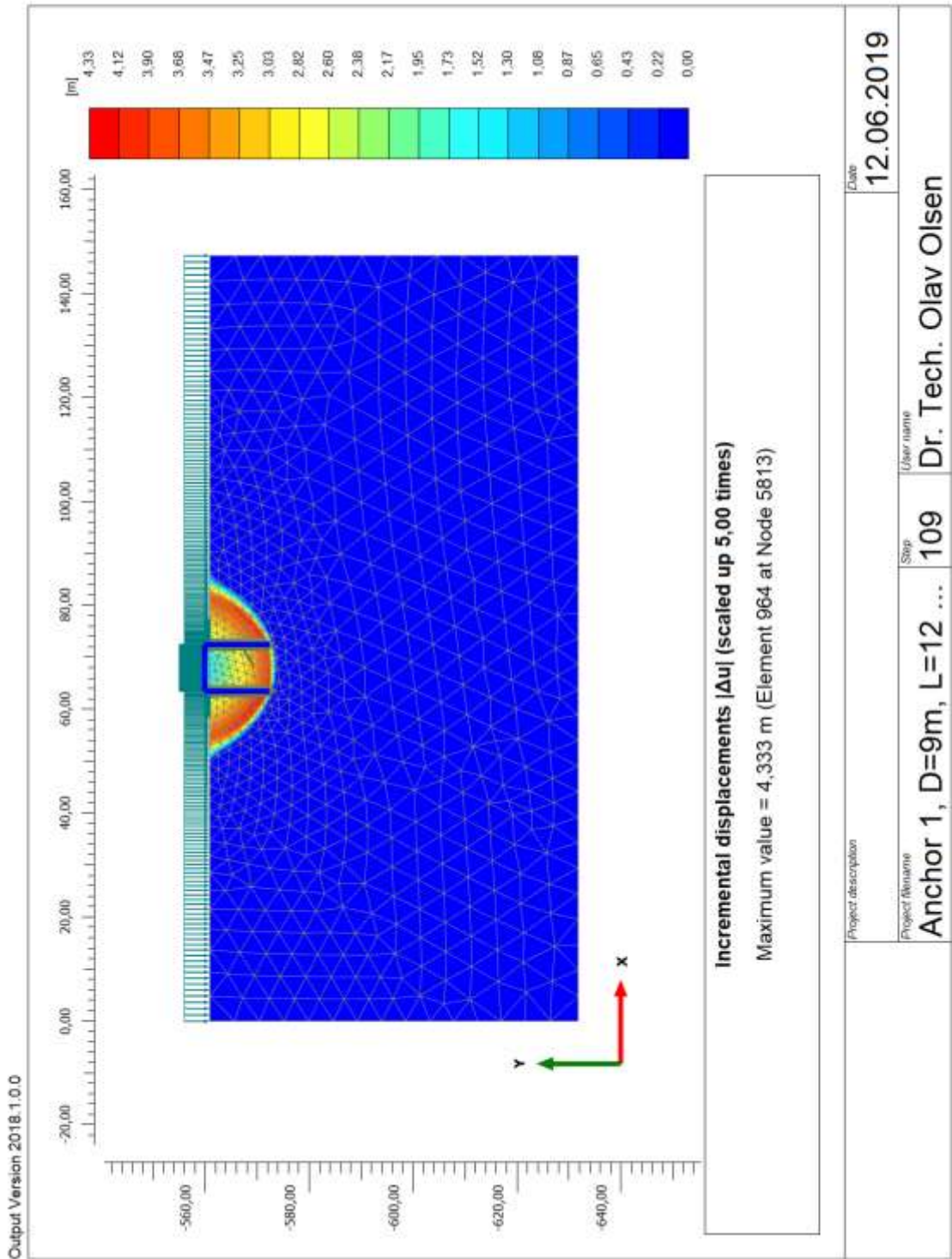
1.1.5 Horizontal failure mode



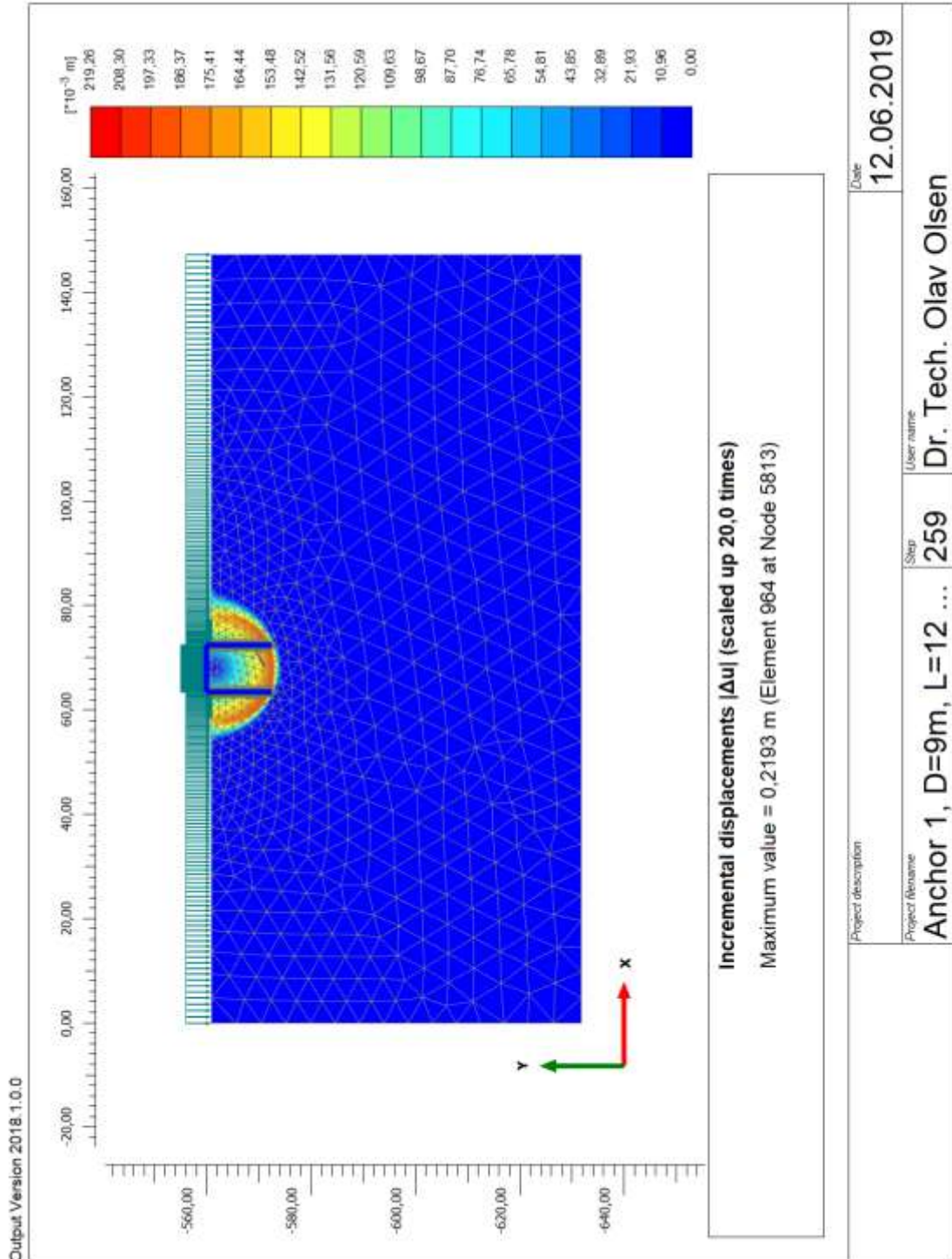
1.1.6 2/3 from skirt tip



1.1.7 1/2 from skirt tip

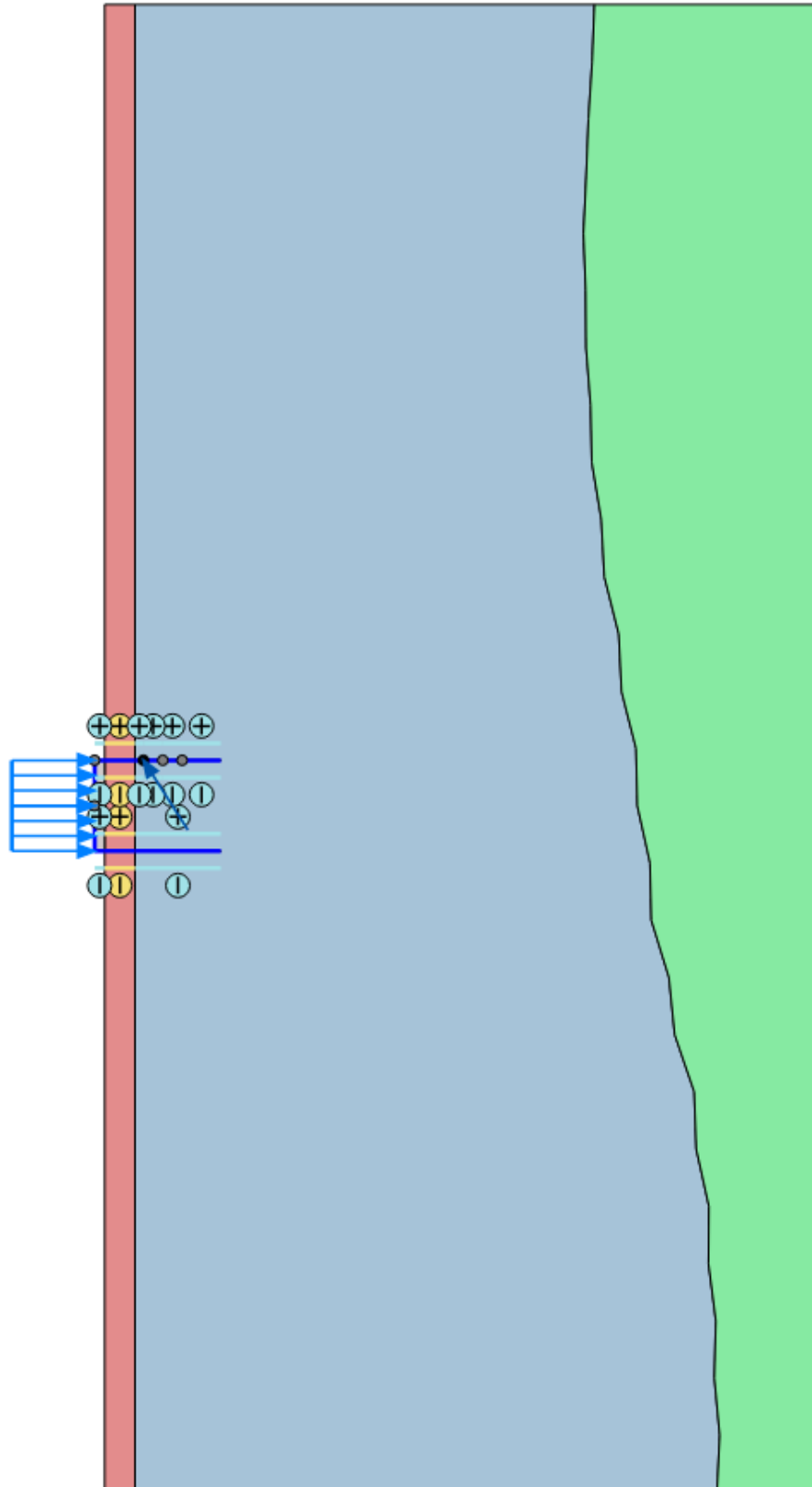


1.1.8 1/3 from skirt tip

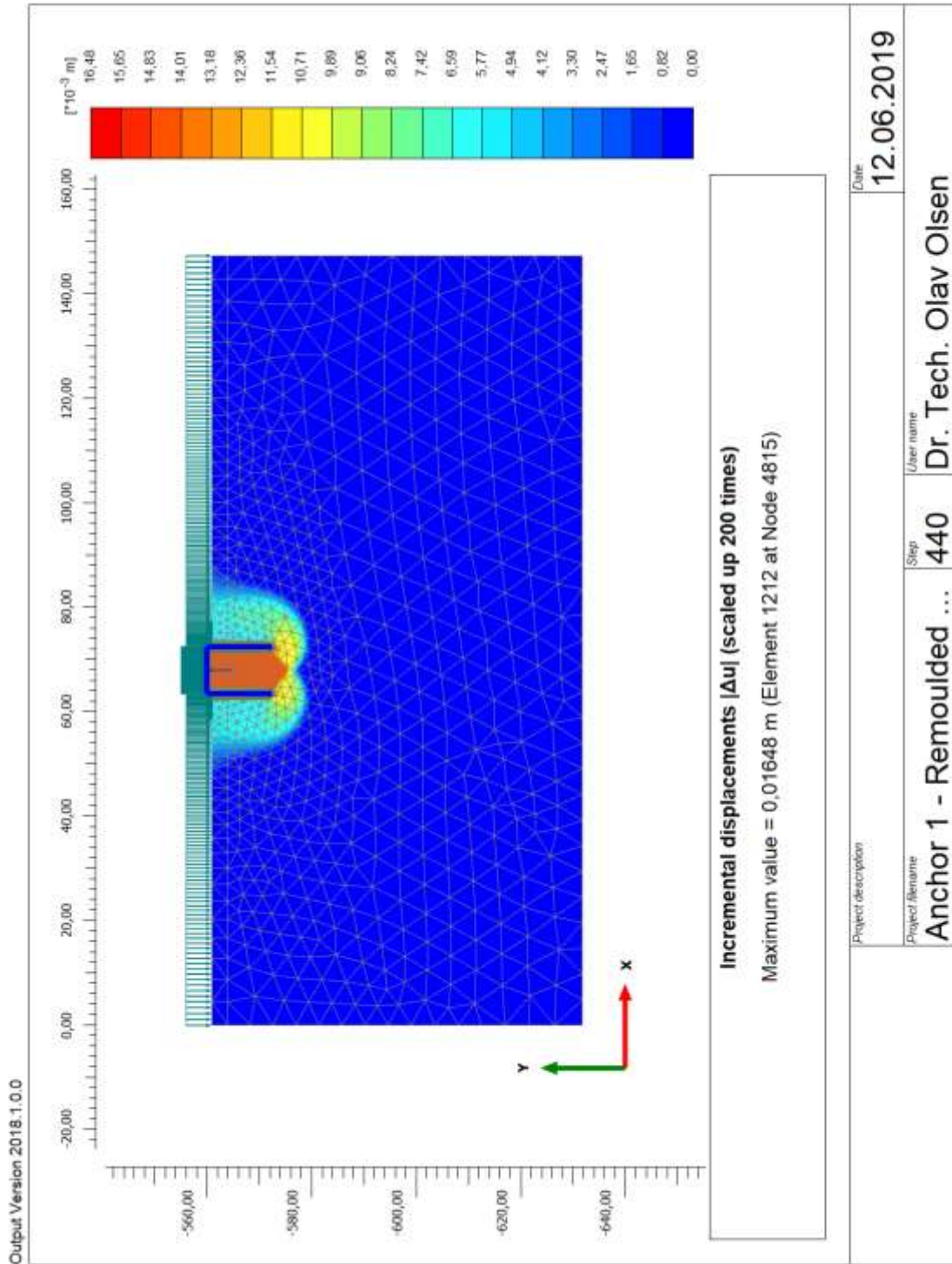


1.2 Top soil layer remoulded

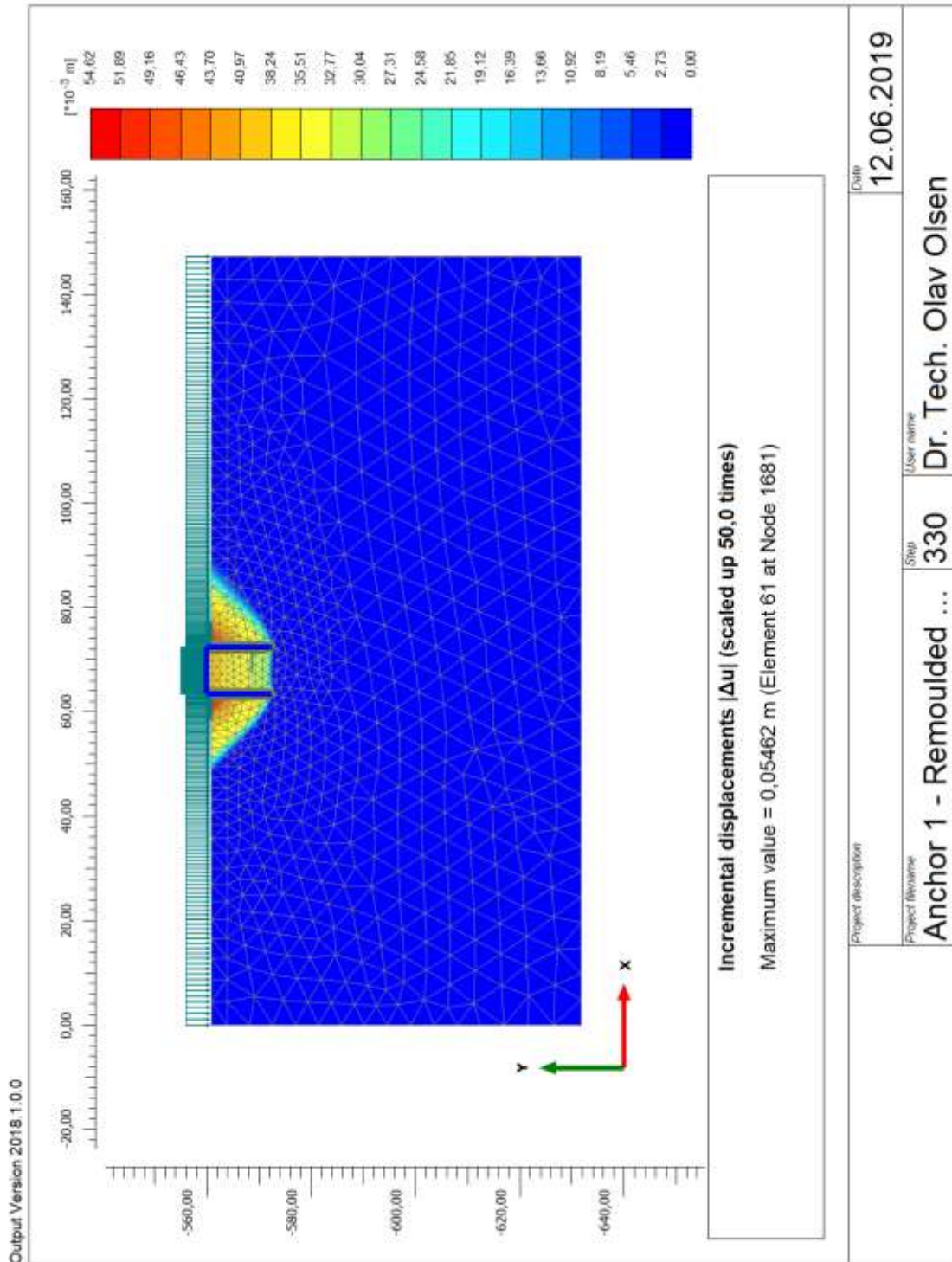
1.2.1 Model



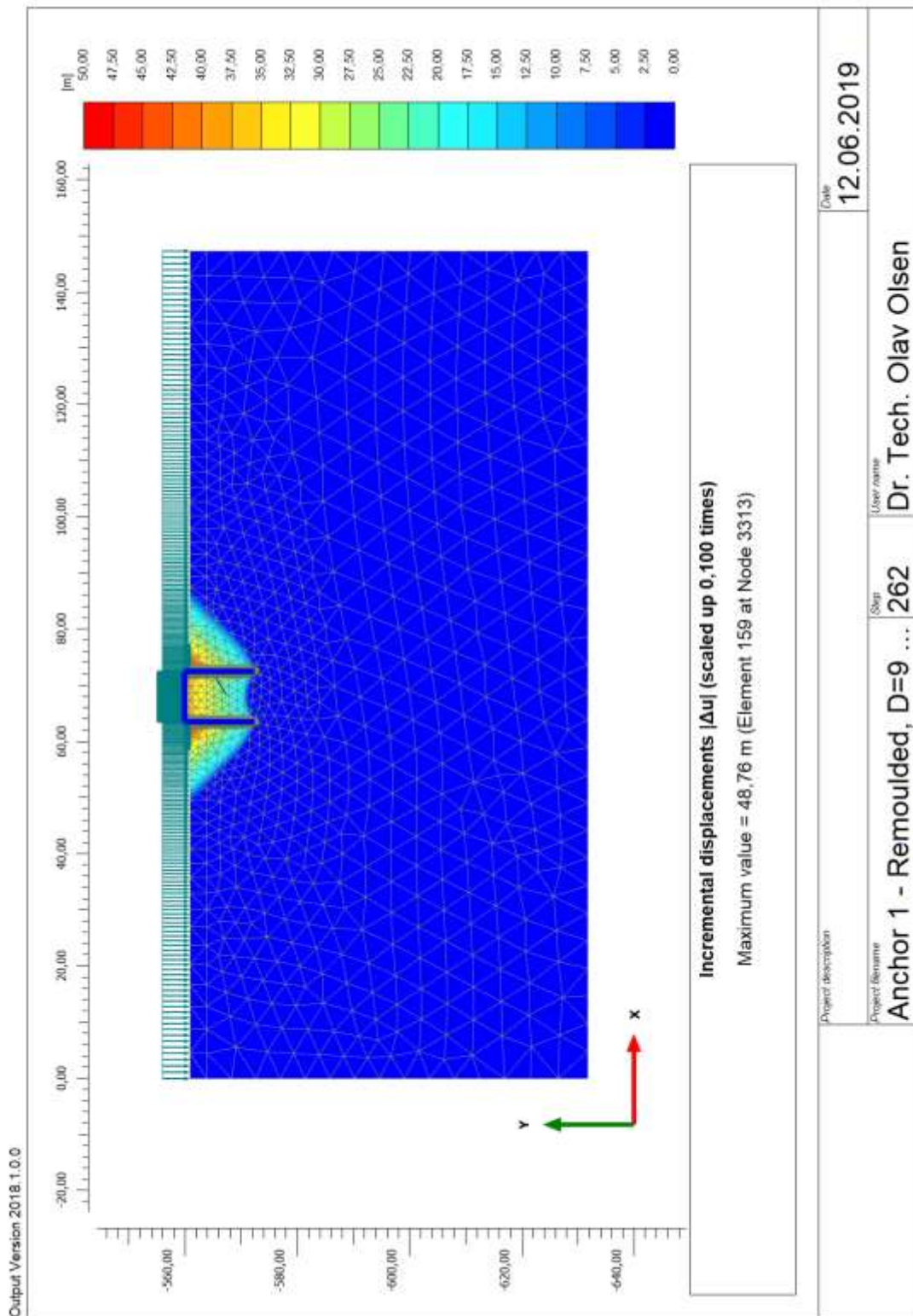
1.2.2 Vertical failure mode



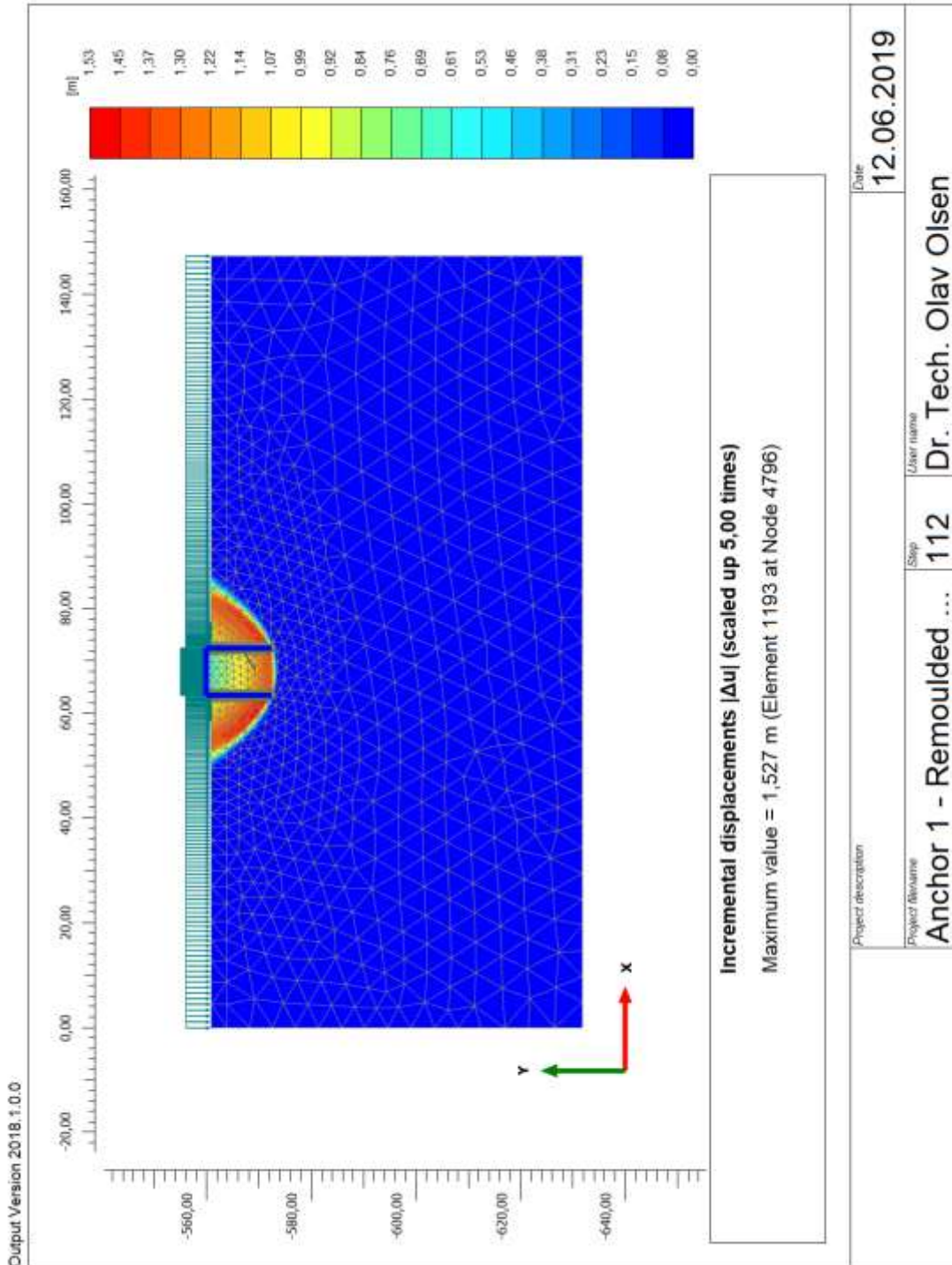
1.2.3 Horizontal failure mode



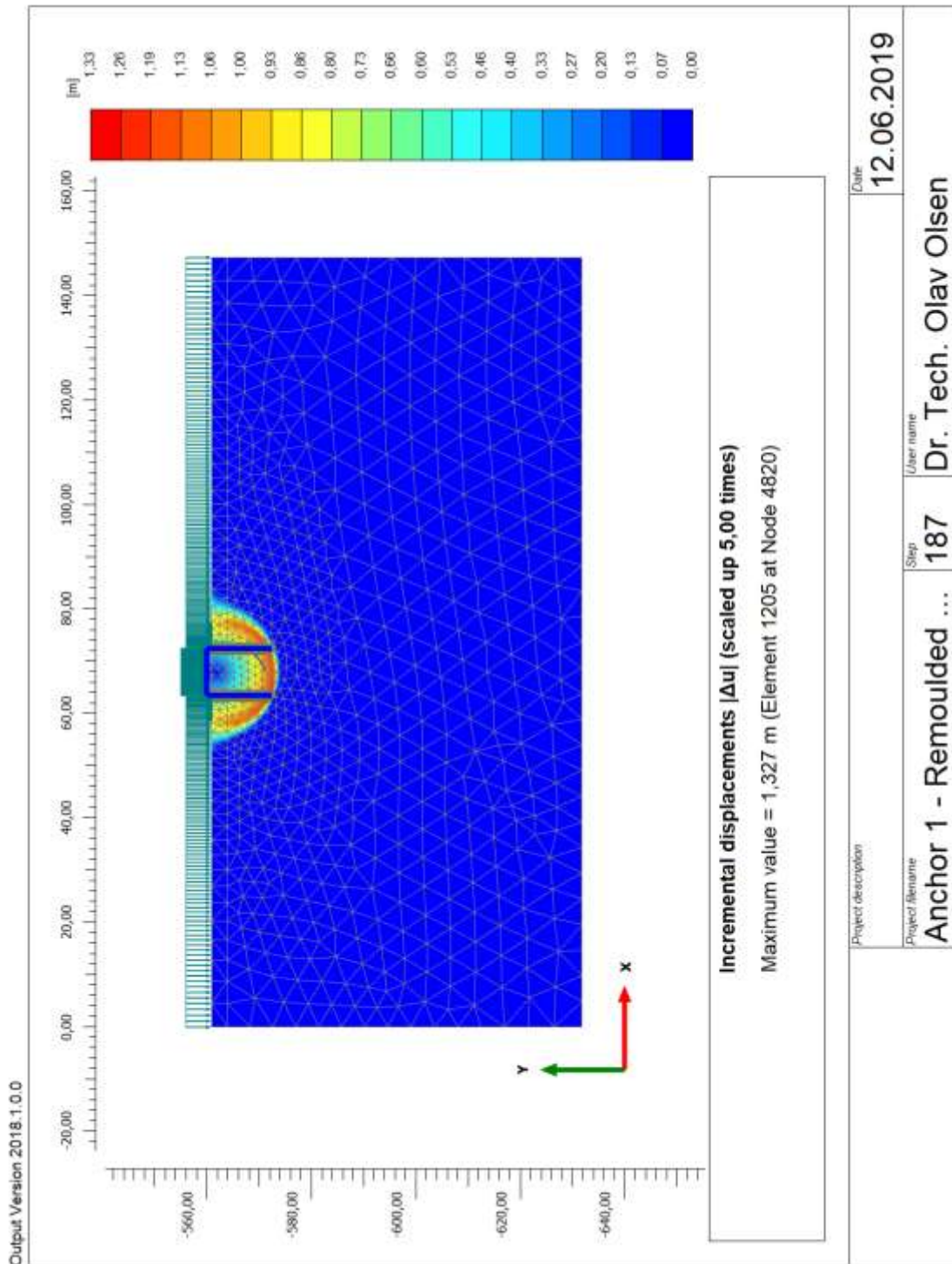
1.2.4 2/3 from skirt tip



1.2.5 1/2 from skirt tip



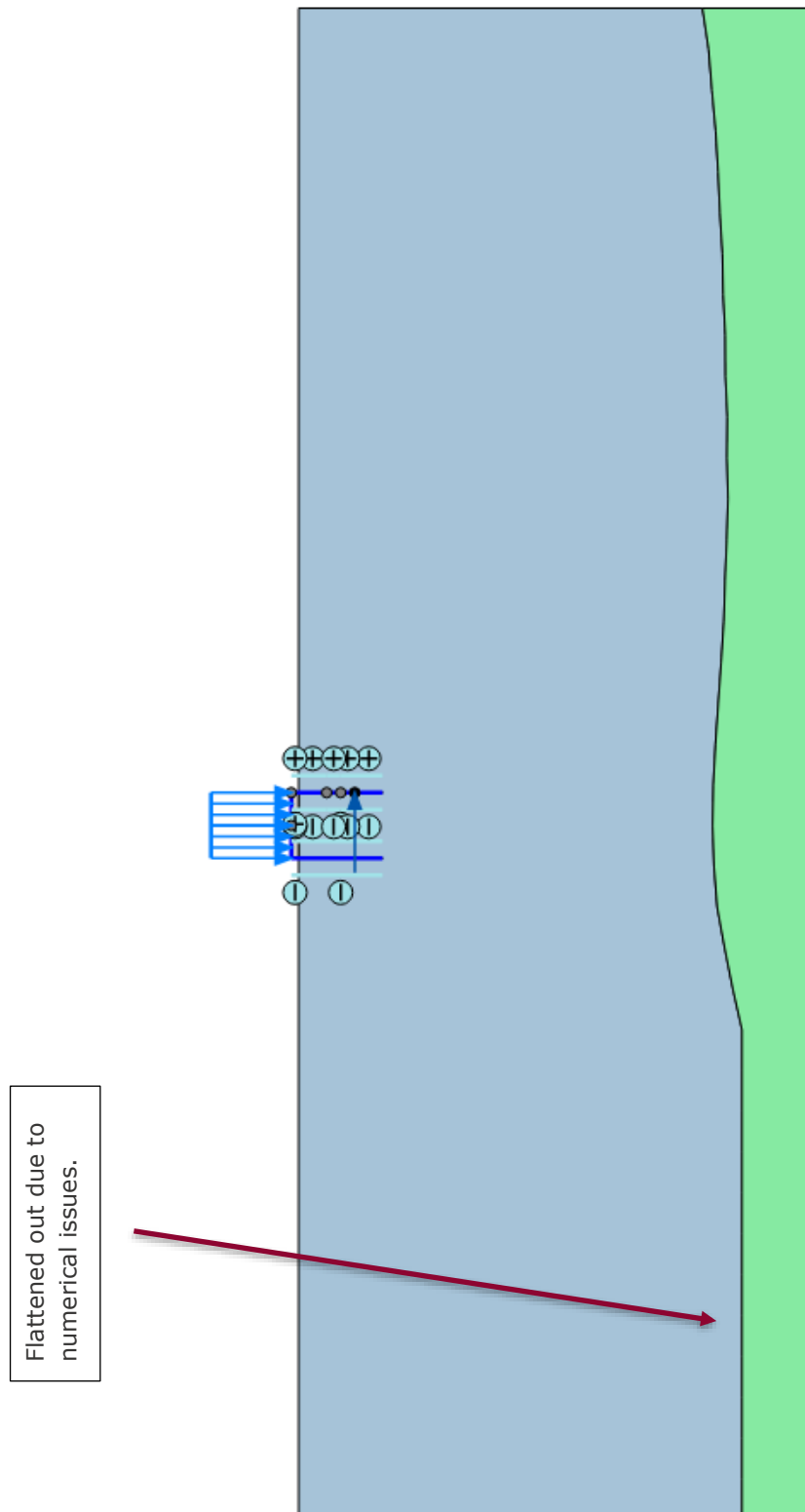
1.2.6 1/3 from skirt tip



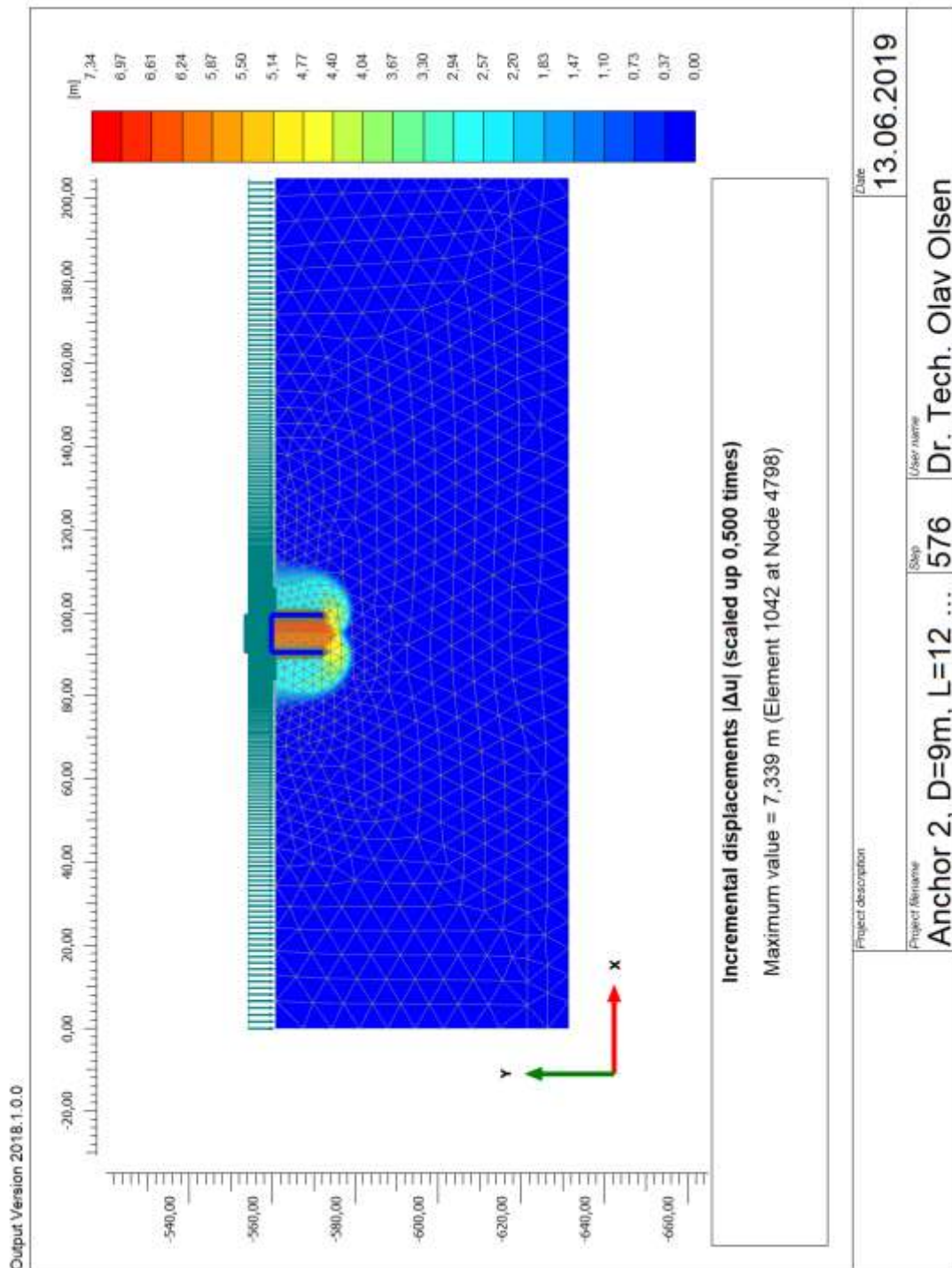
2 ANCHOR PROFILE 2

2.1 Intact soil

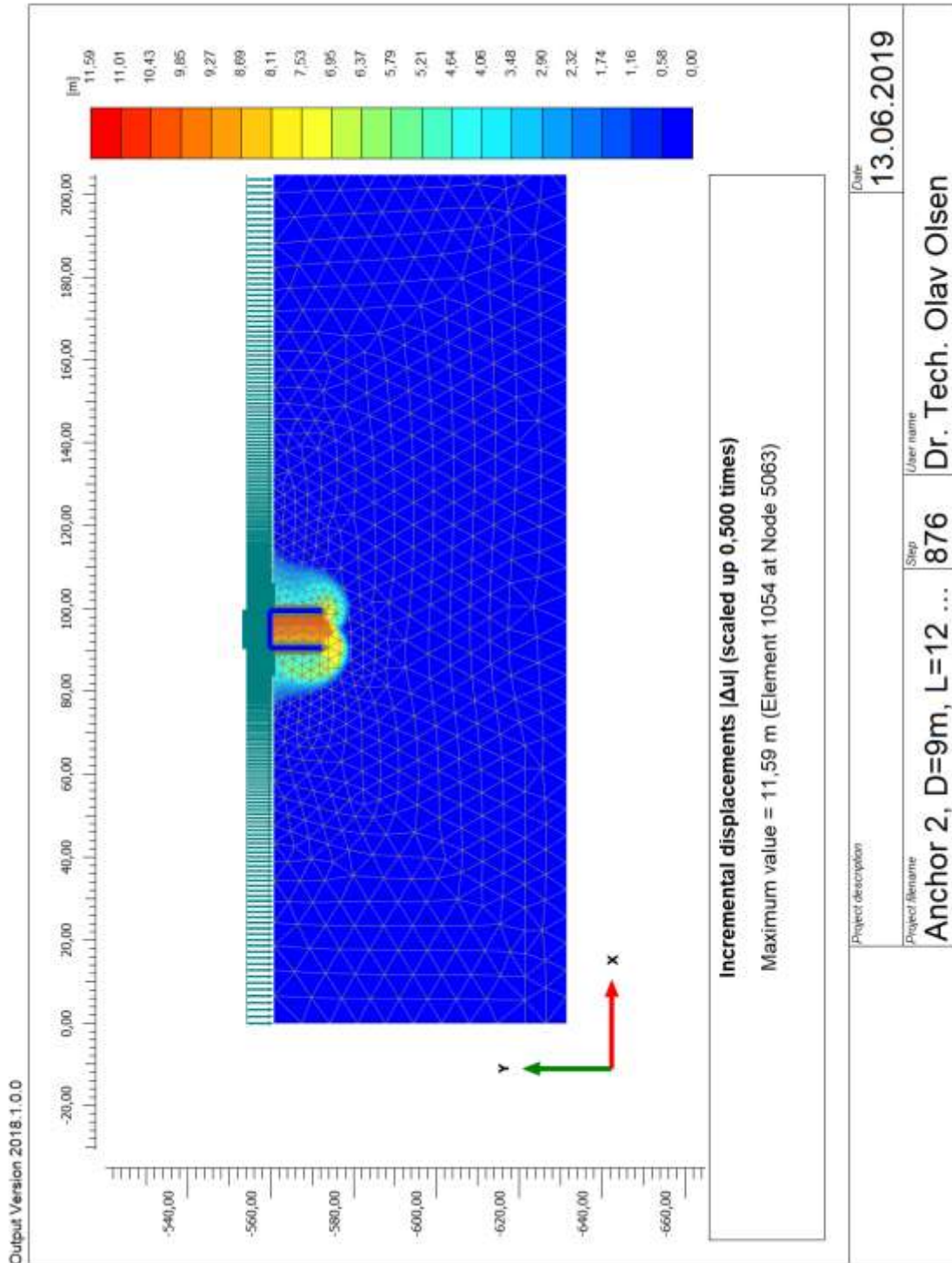
2.1.1 Model



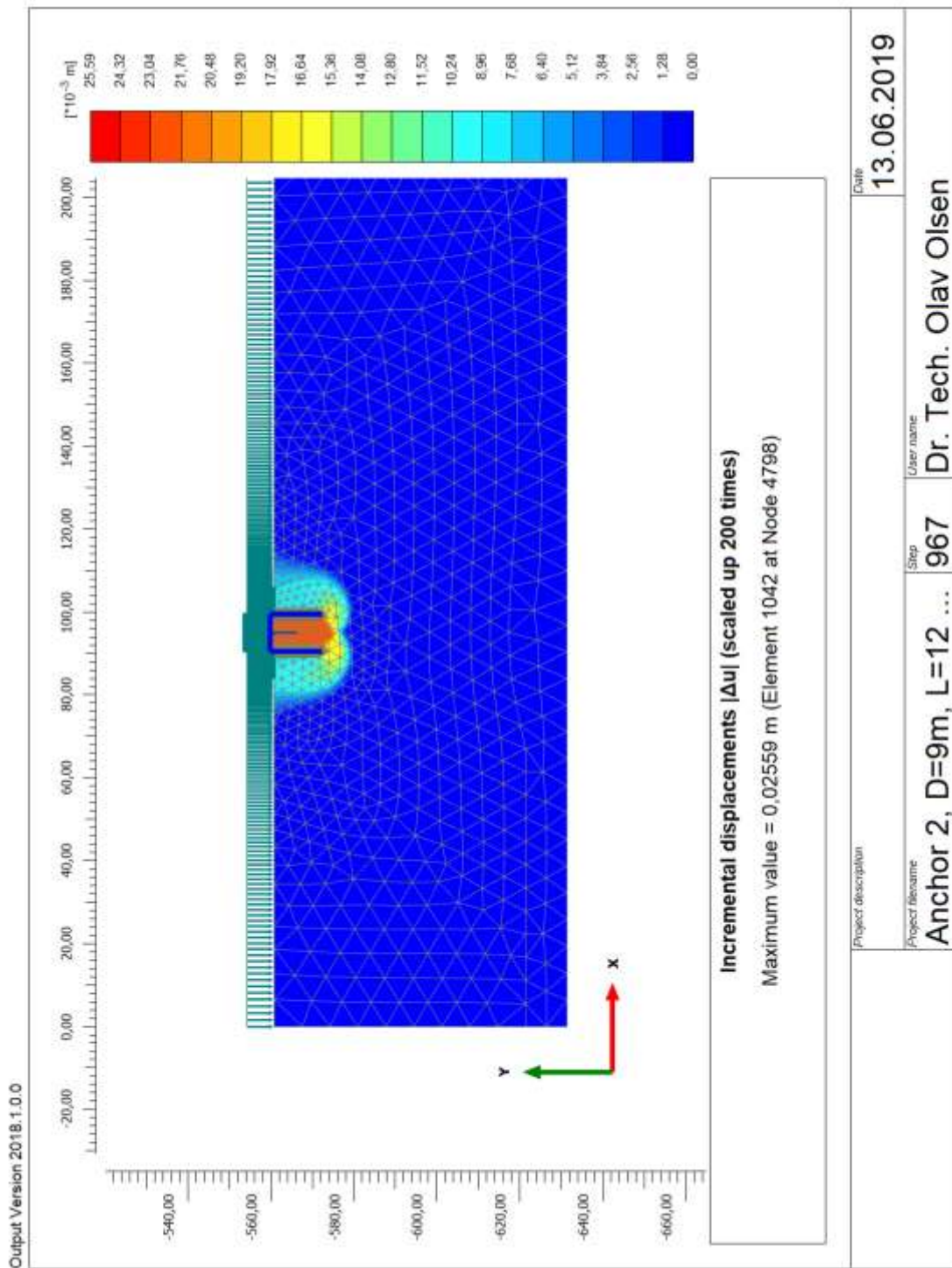
2.1.2 Undrained local slope stability



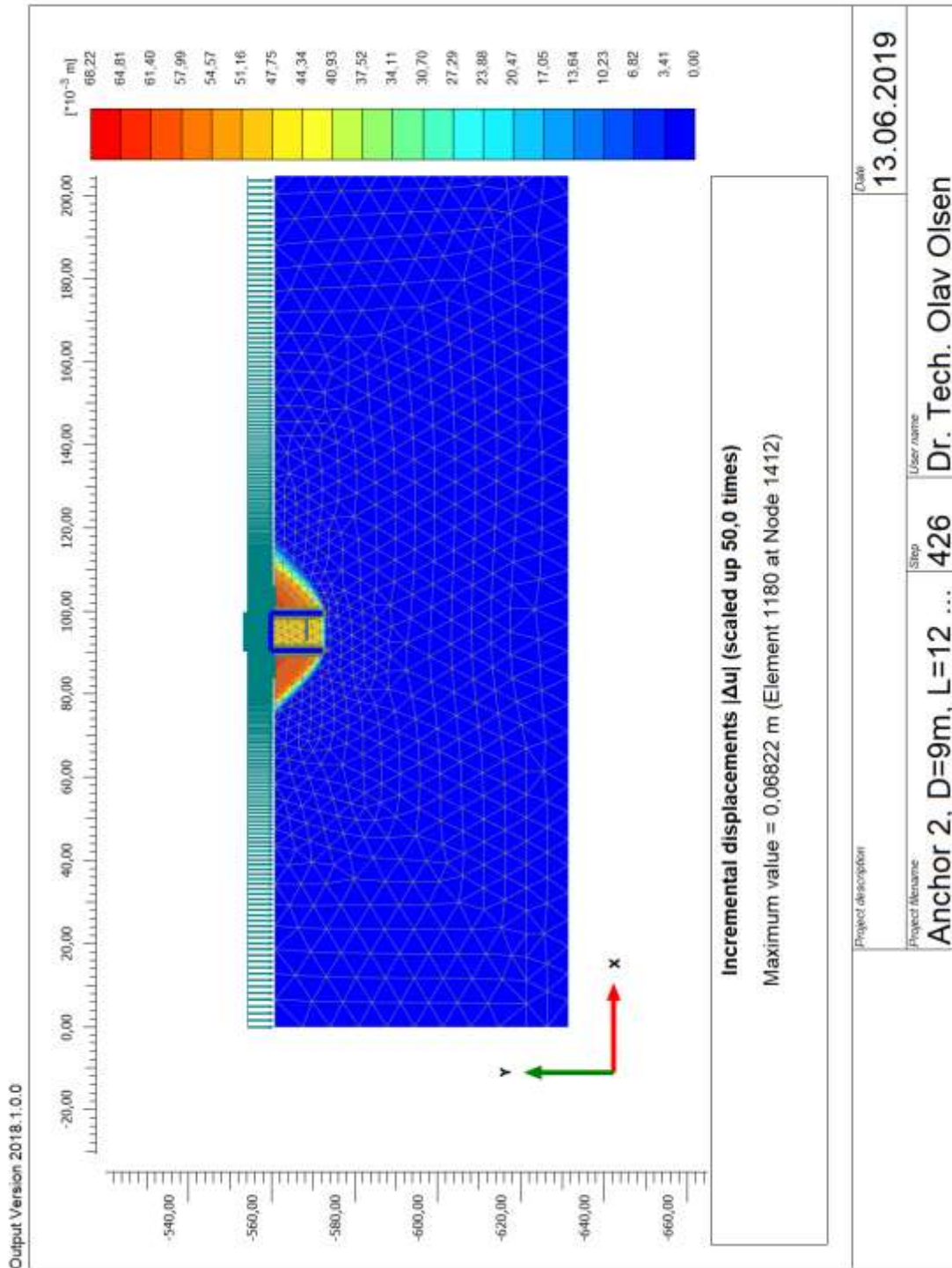
2.1.3 Drained local slope stability



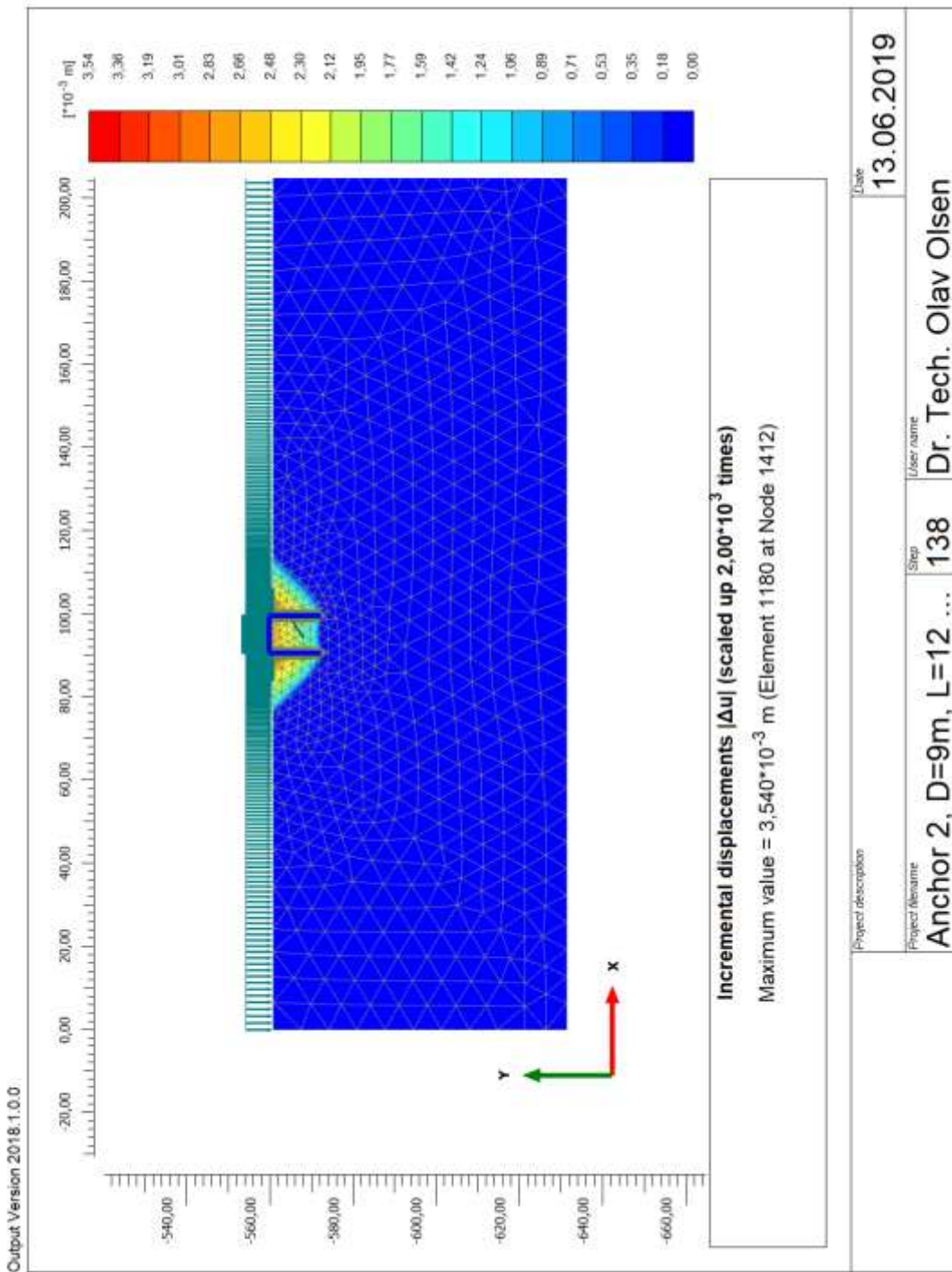
2.1.4 Vertical failure mode



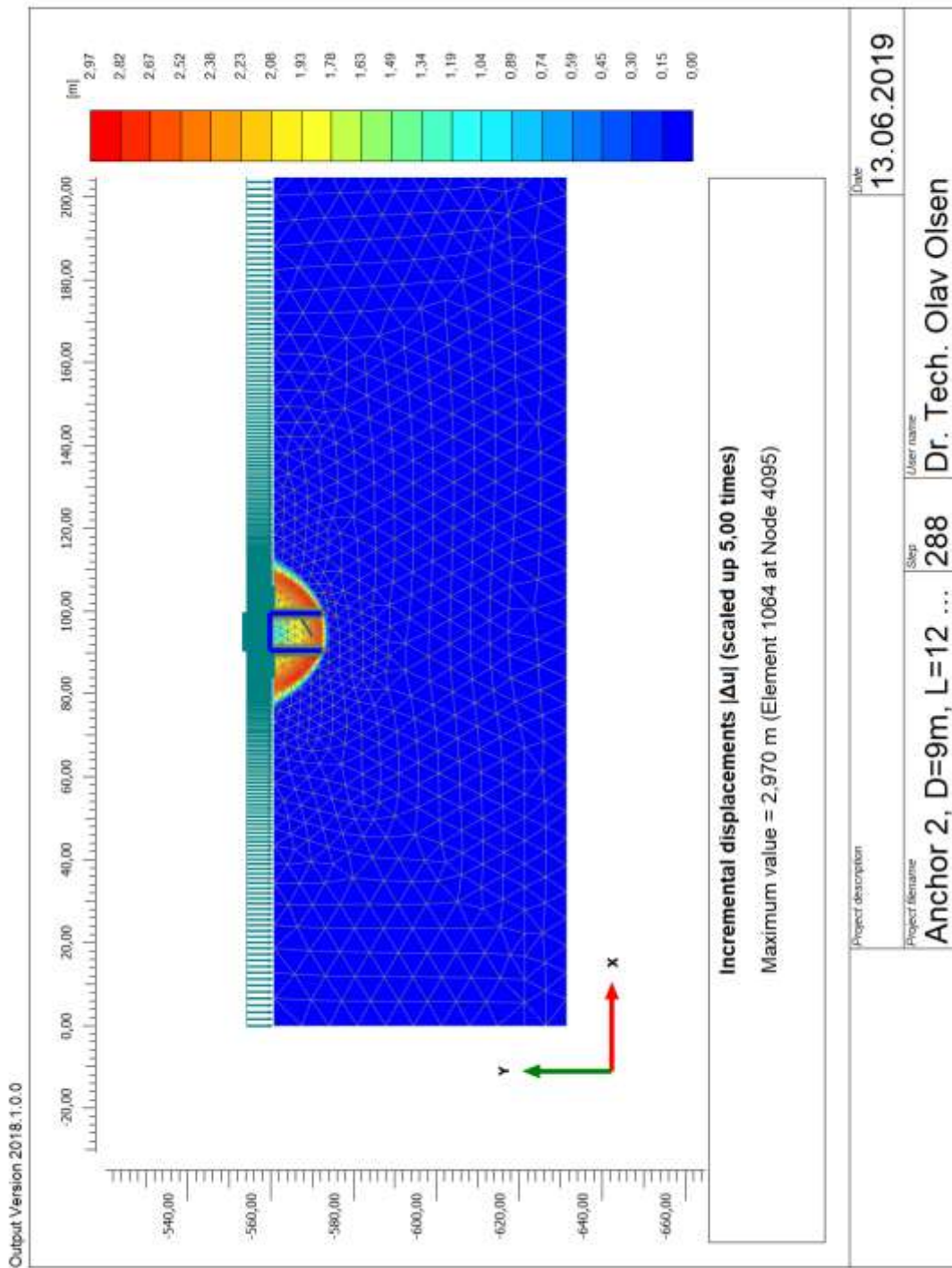
2.1.5 Horizontal failure mode



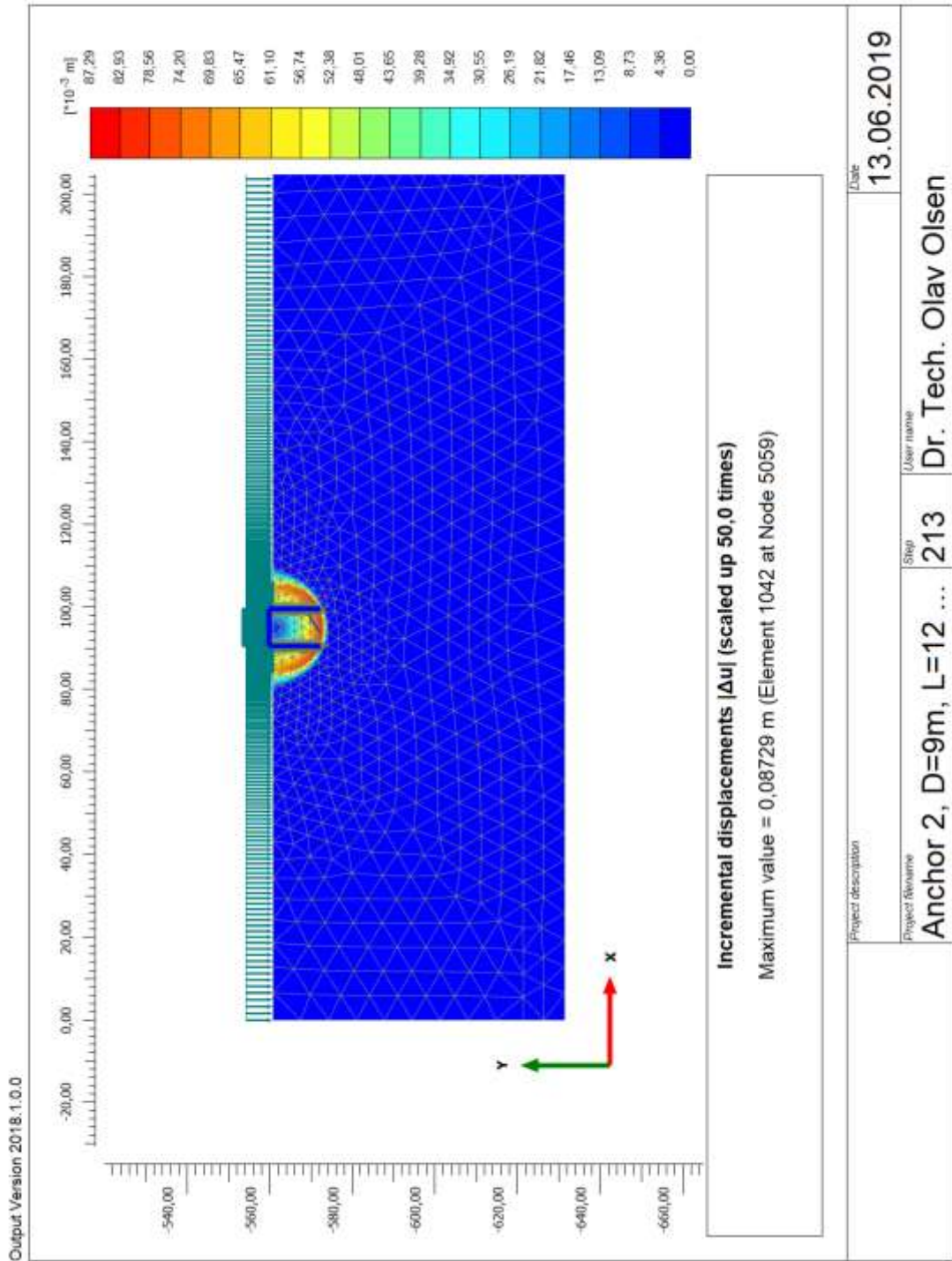
2.1.6 2/3 from skirt tip



2.1.7 1/2 from skirt tip

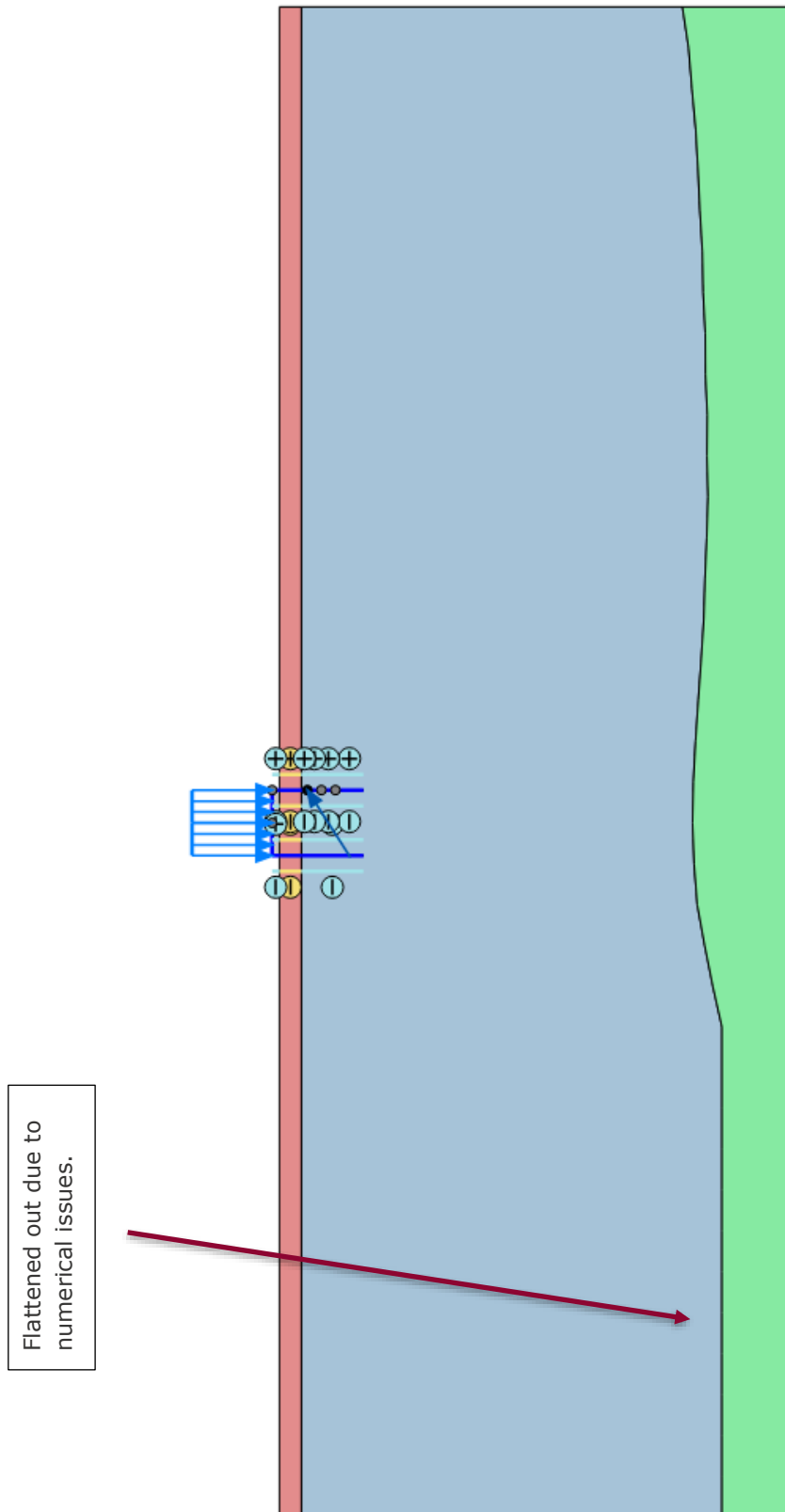


2.1.8 1/3 from skirt tip

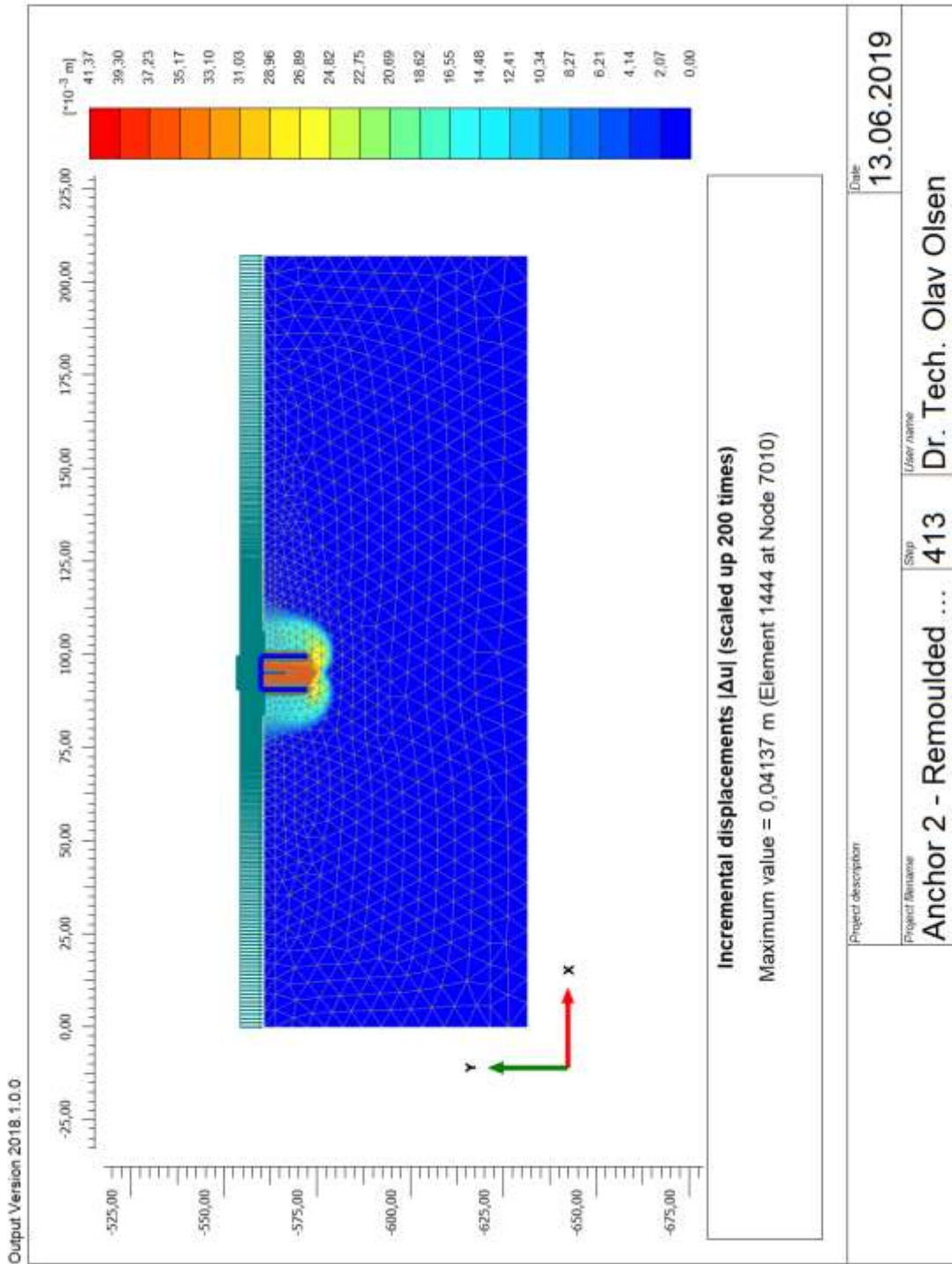


2.2 Top soil layer remoulded

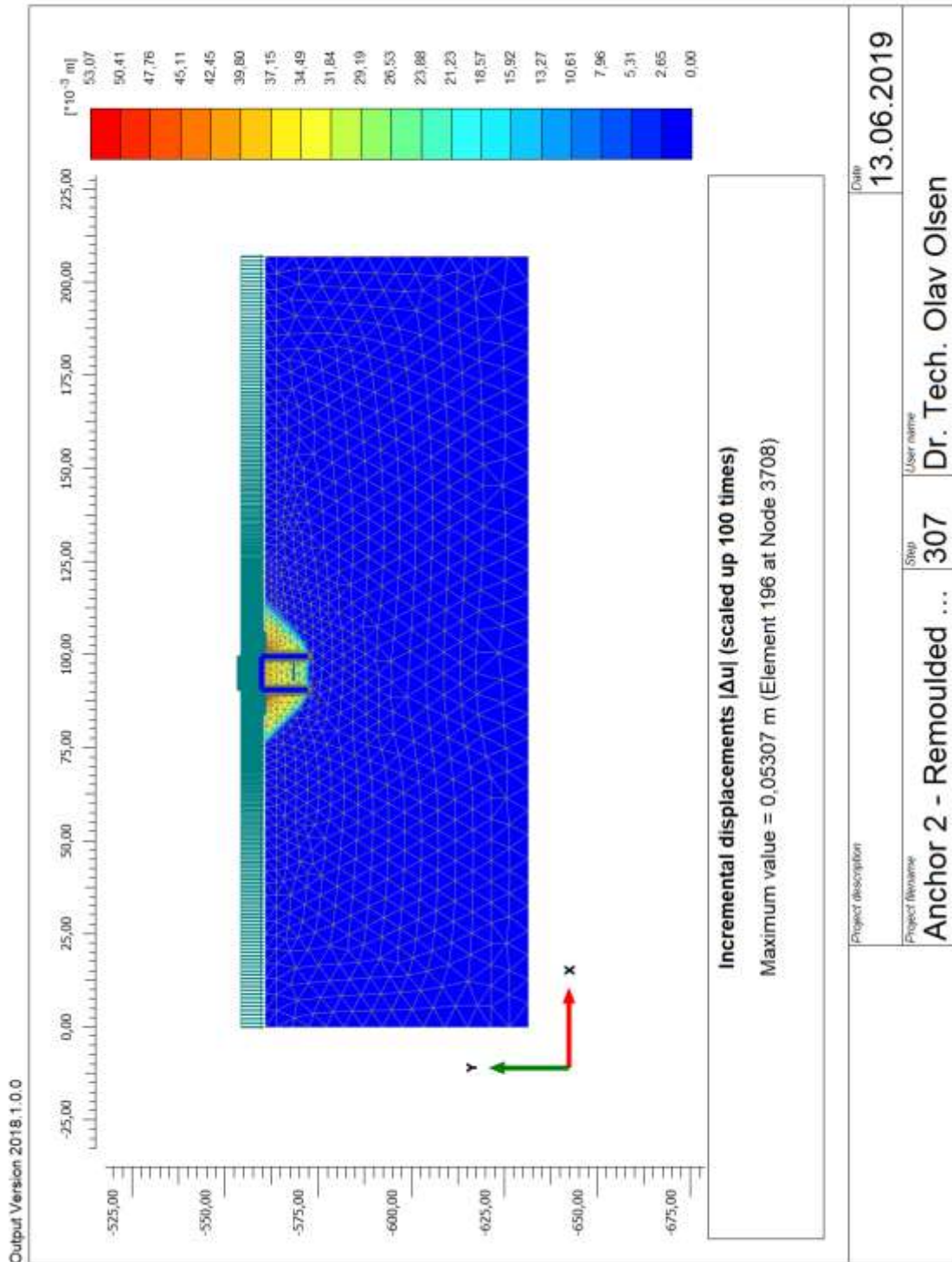
2.2.1 Model



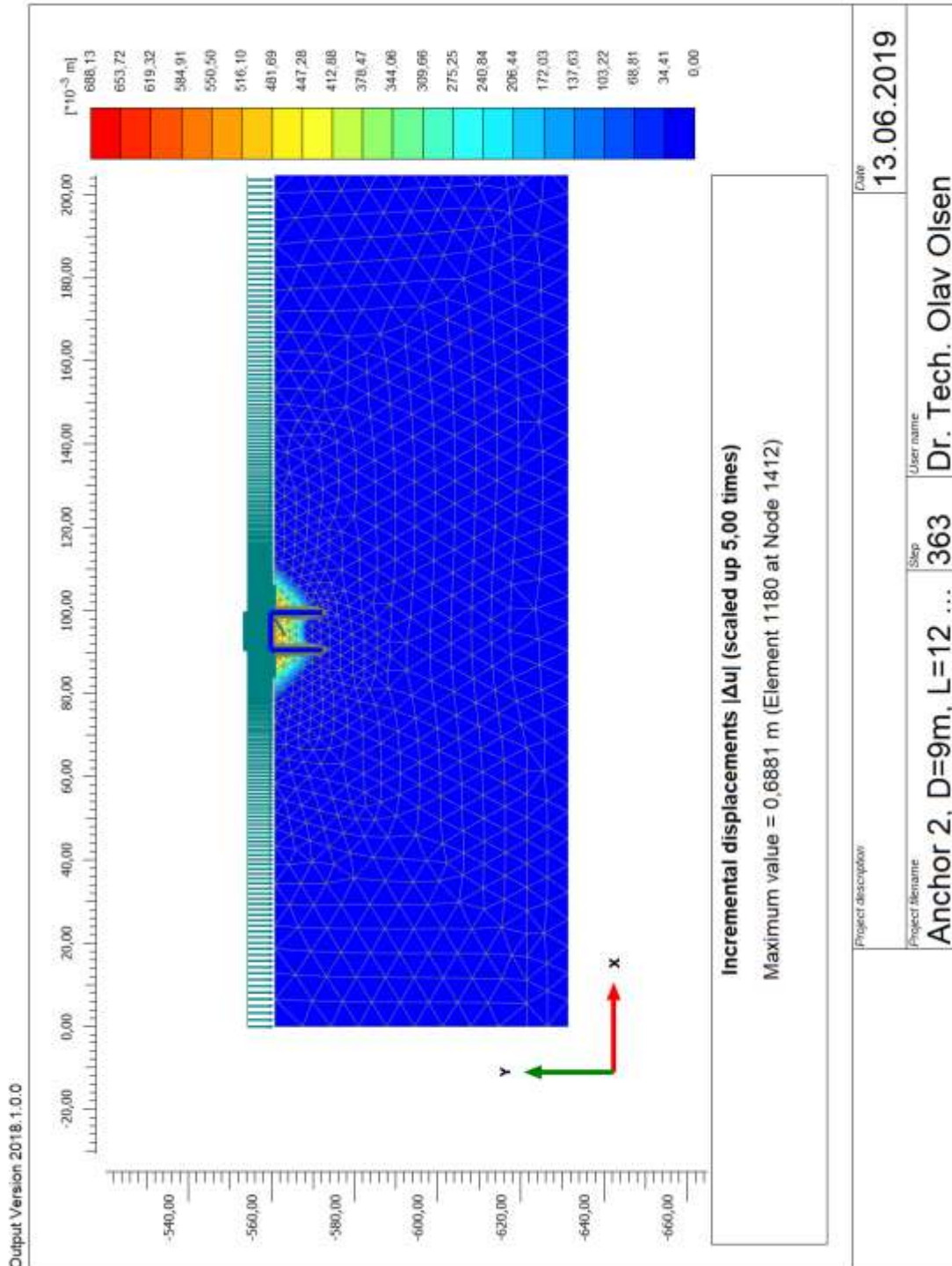
2.2.2 Vertical failure mode



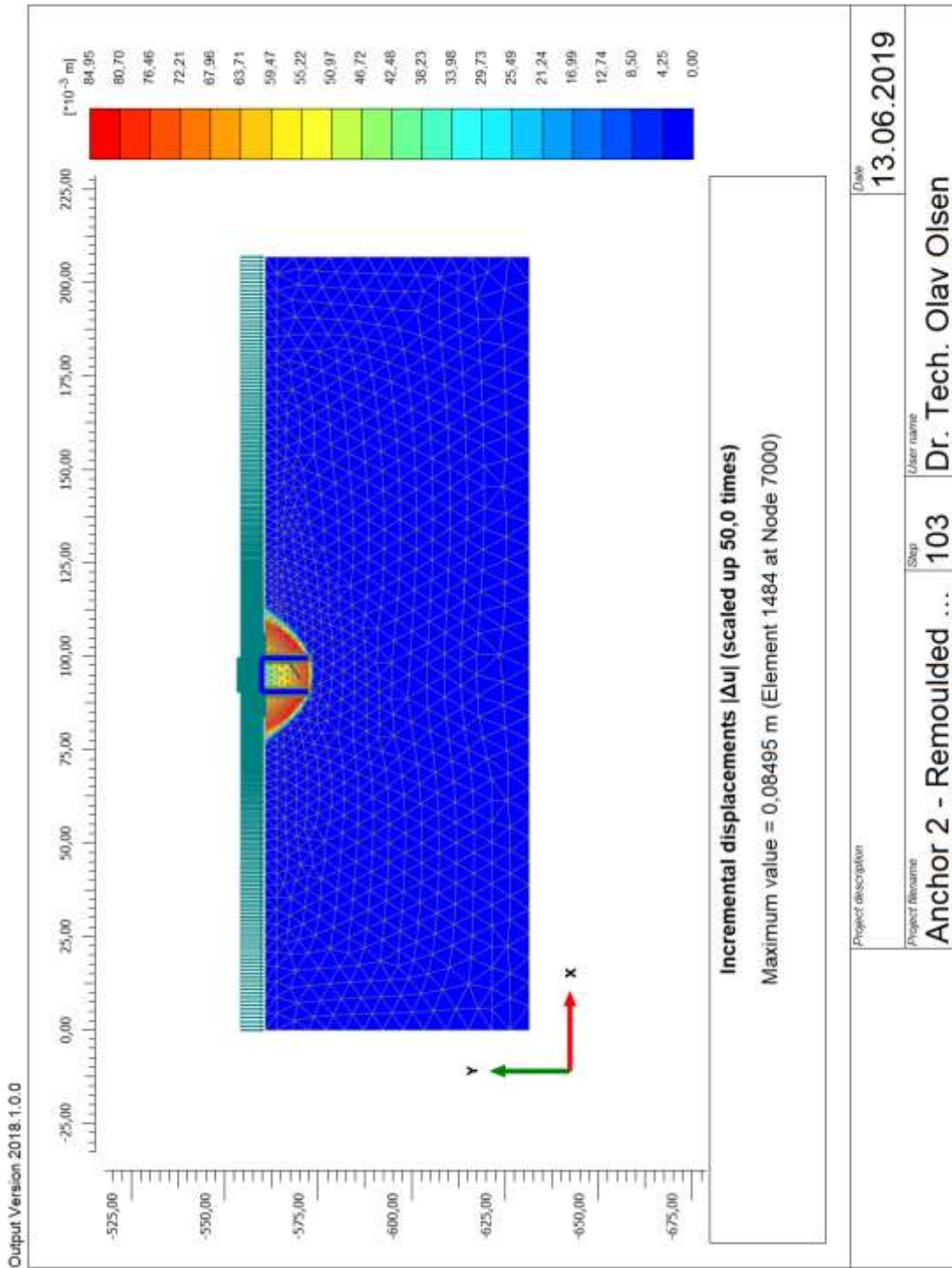
2.2.3 Horizontal failure mode



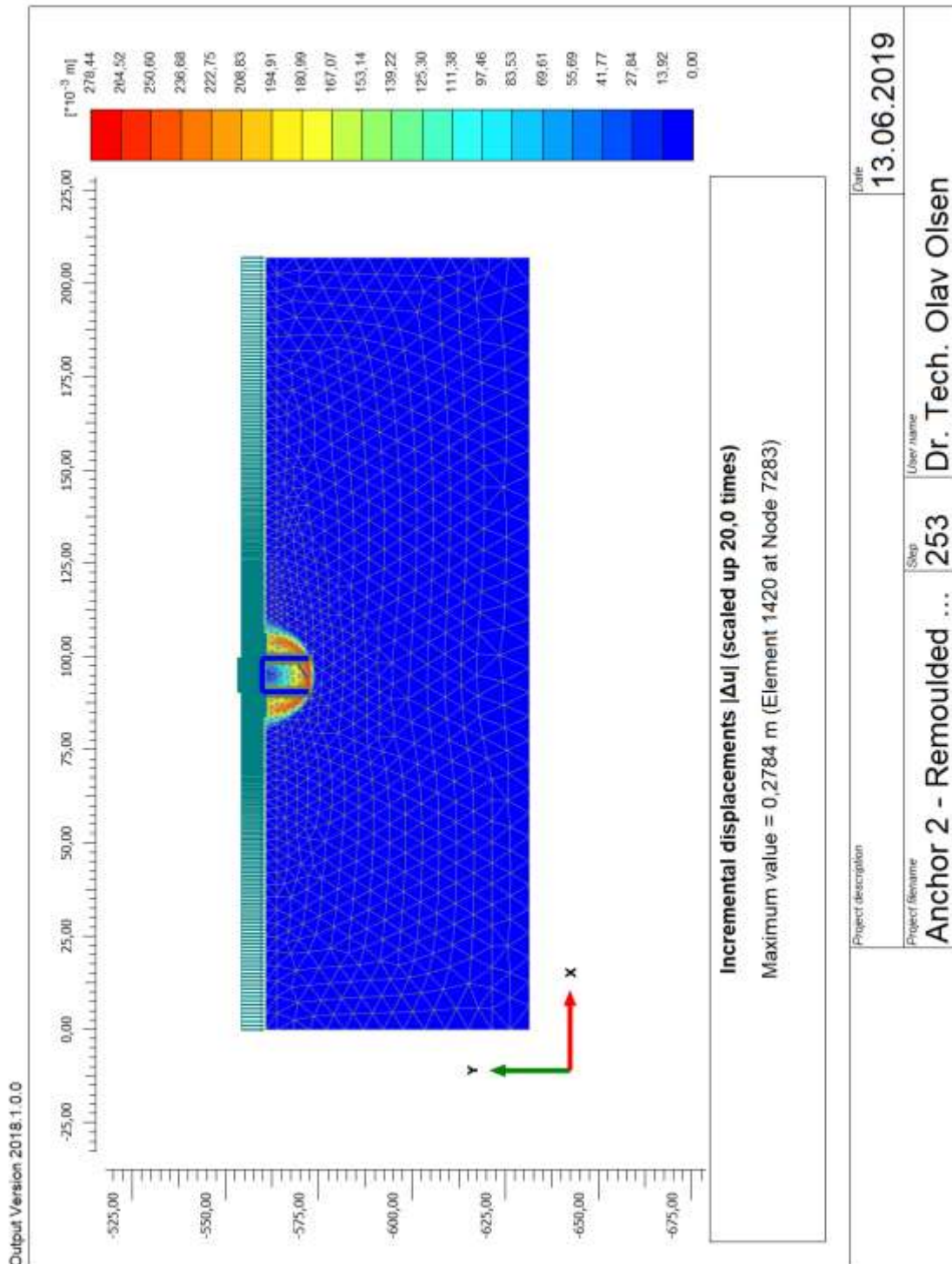
2.2.4 2/3 from skirt tip



2.2.5 1/2 from skirt tip



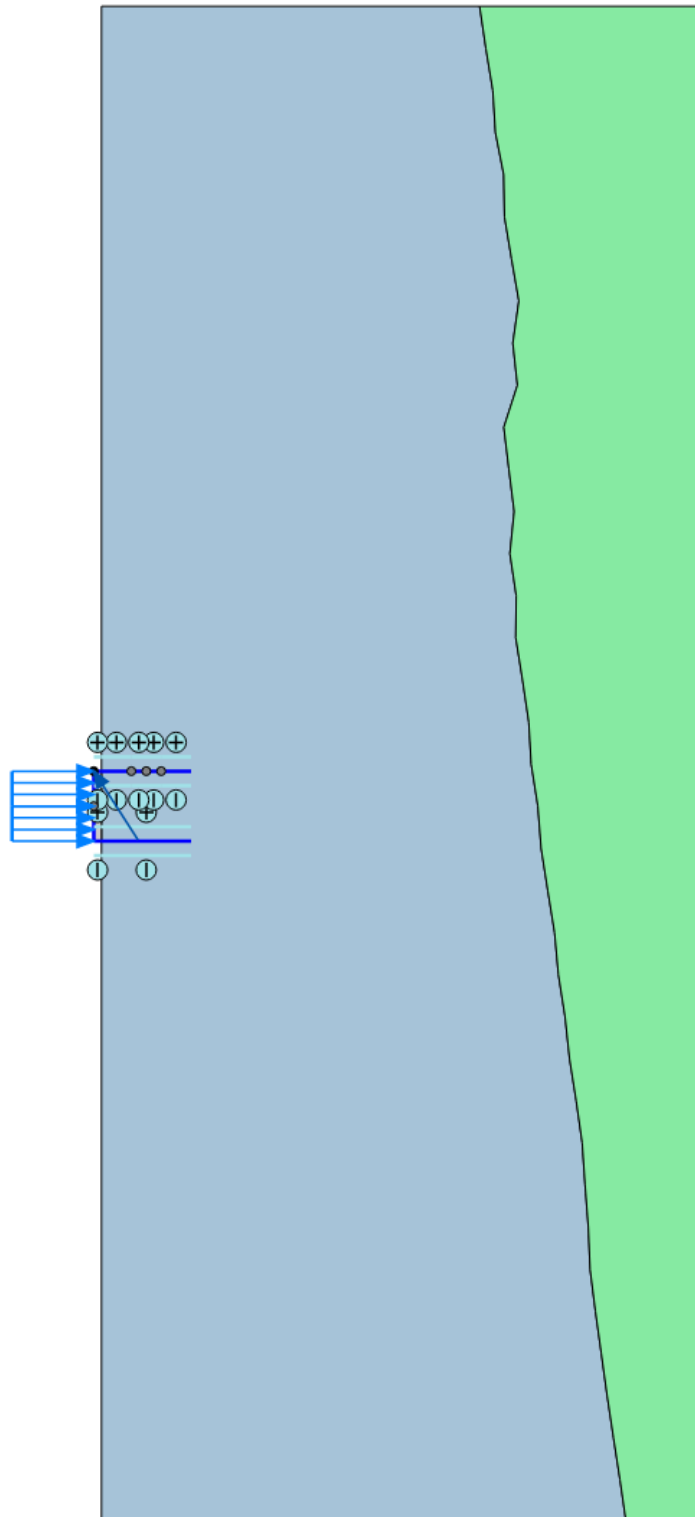
2.2.6 1/3 from skirt tip



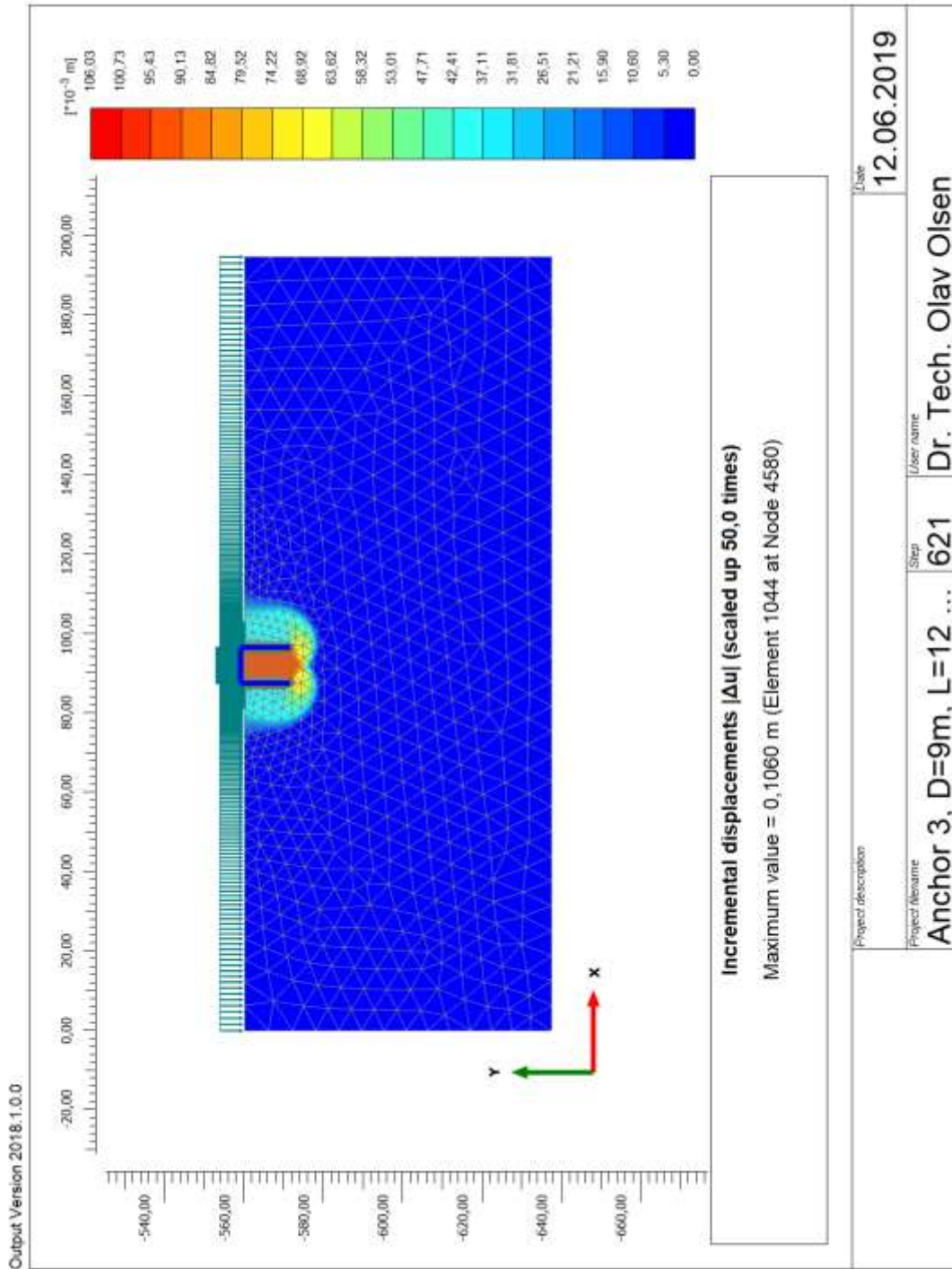
3 ANCHOR PROFILE 3

3.1 Intact soil

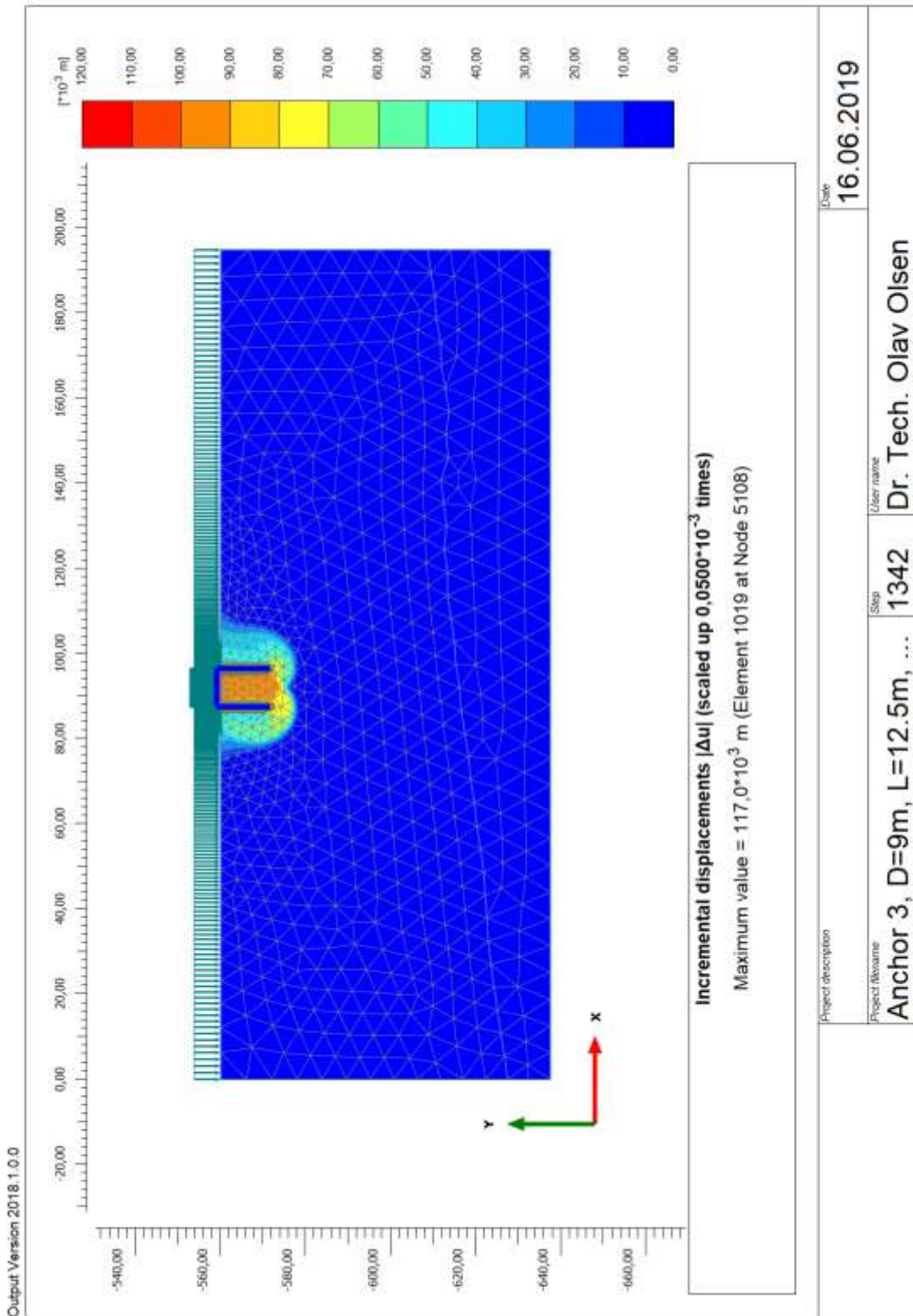
3.1.1 Model



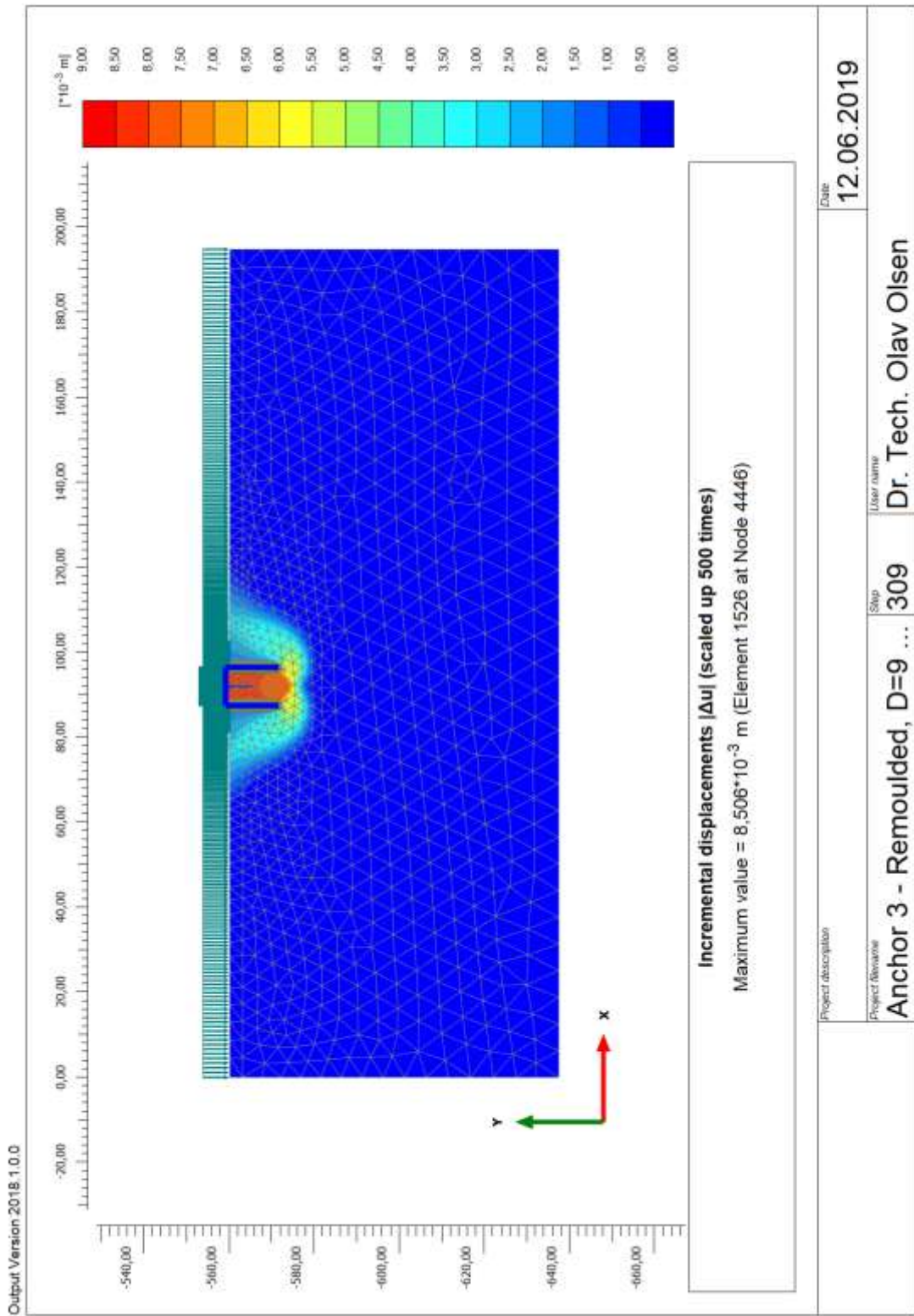
3.1.2 Undrained local slope stability



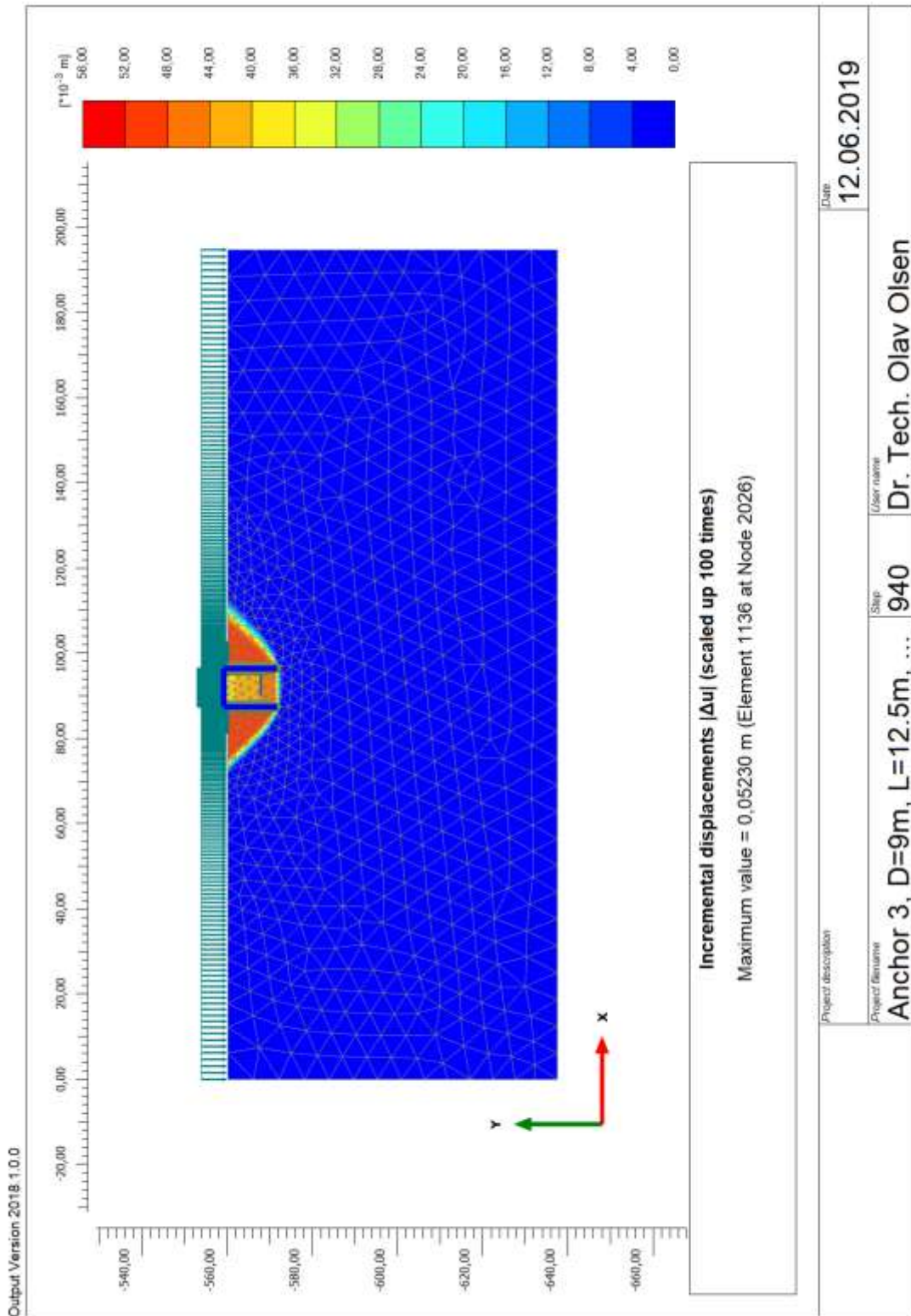
3.1.3 Drained local slope stability



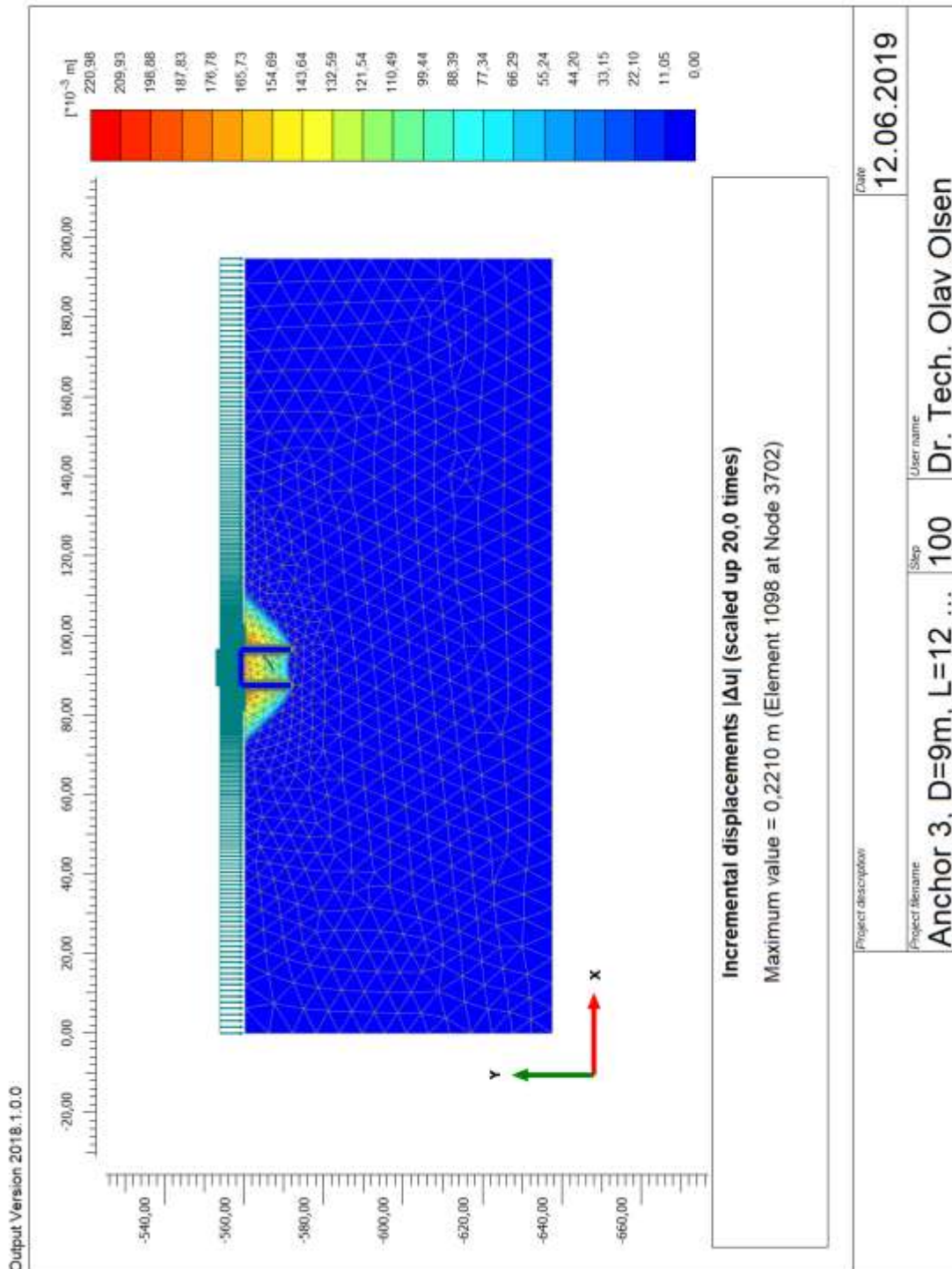
3.1.4 Vertical failure mode



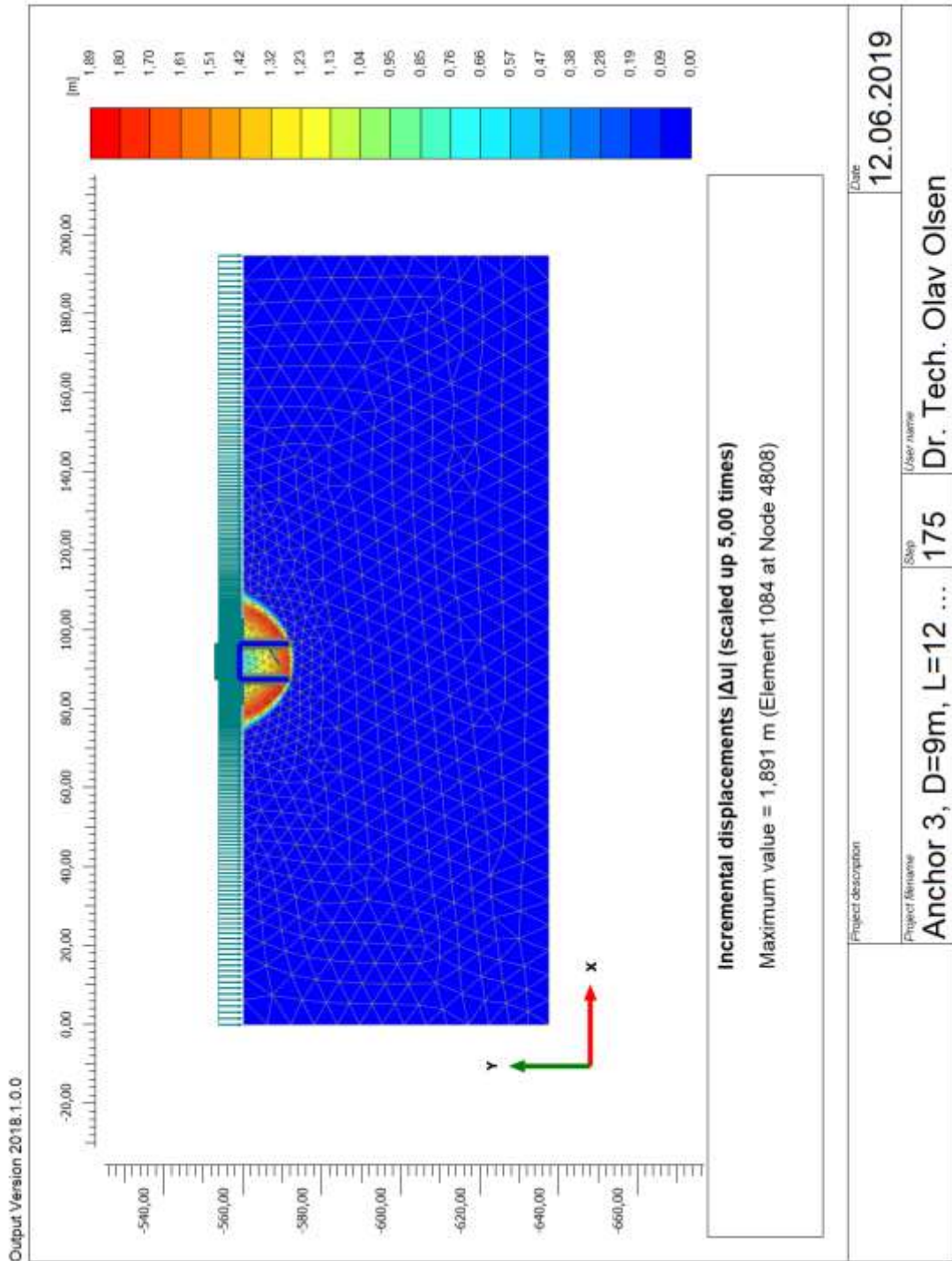
3.1.5 Horizontal failure mode



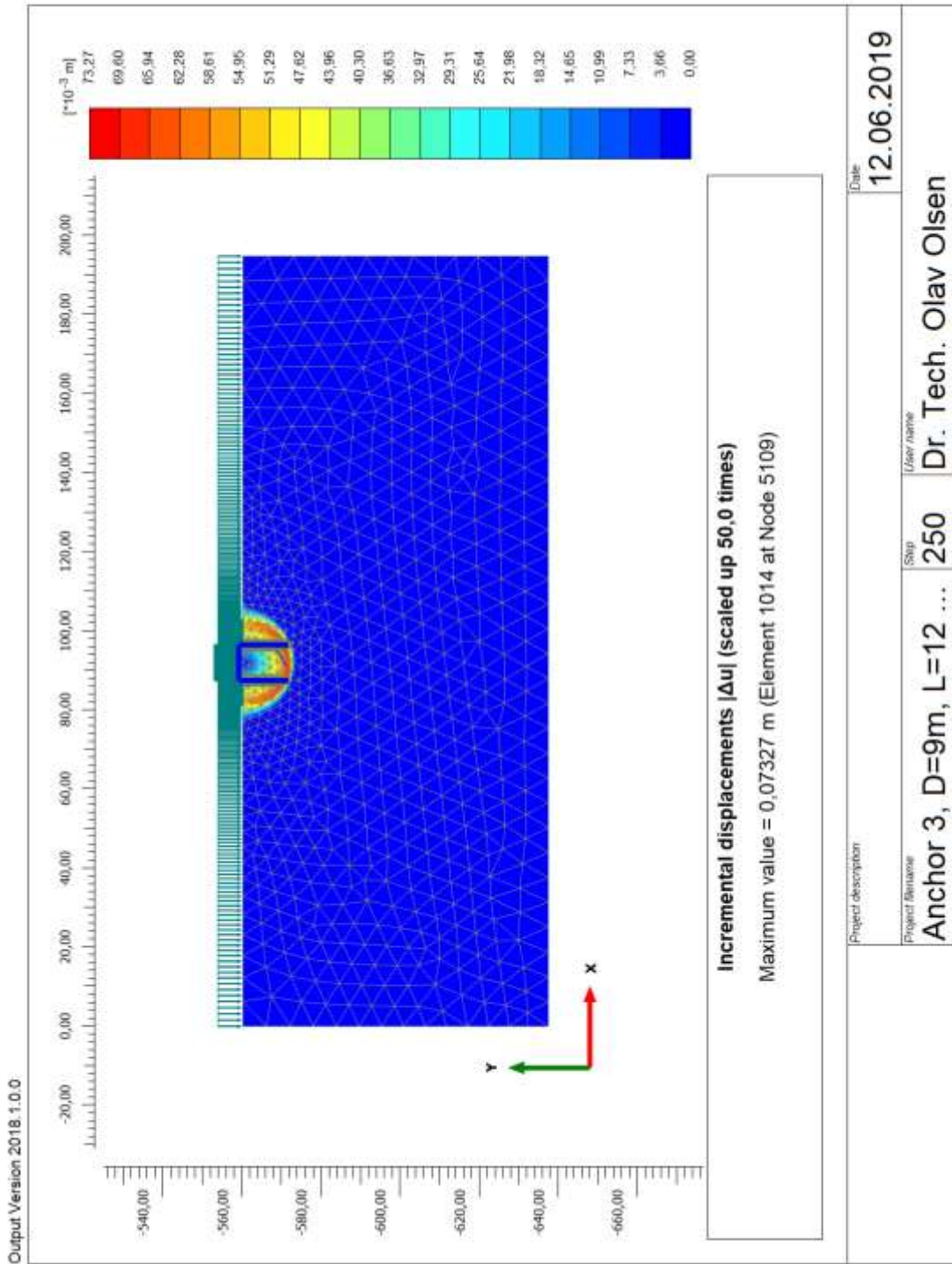
3.1.6 2/3 from skirt tip



3.1.7 1/2 from skirt tip

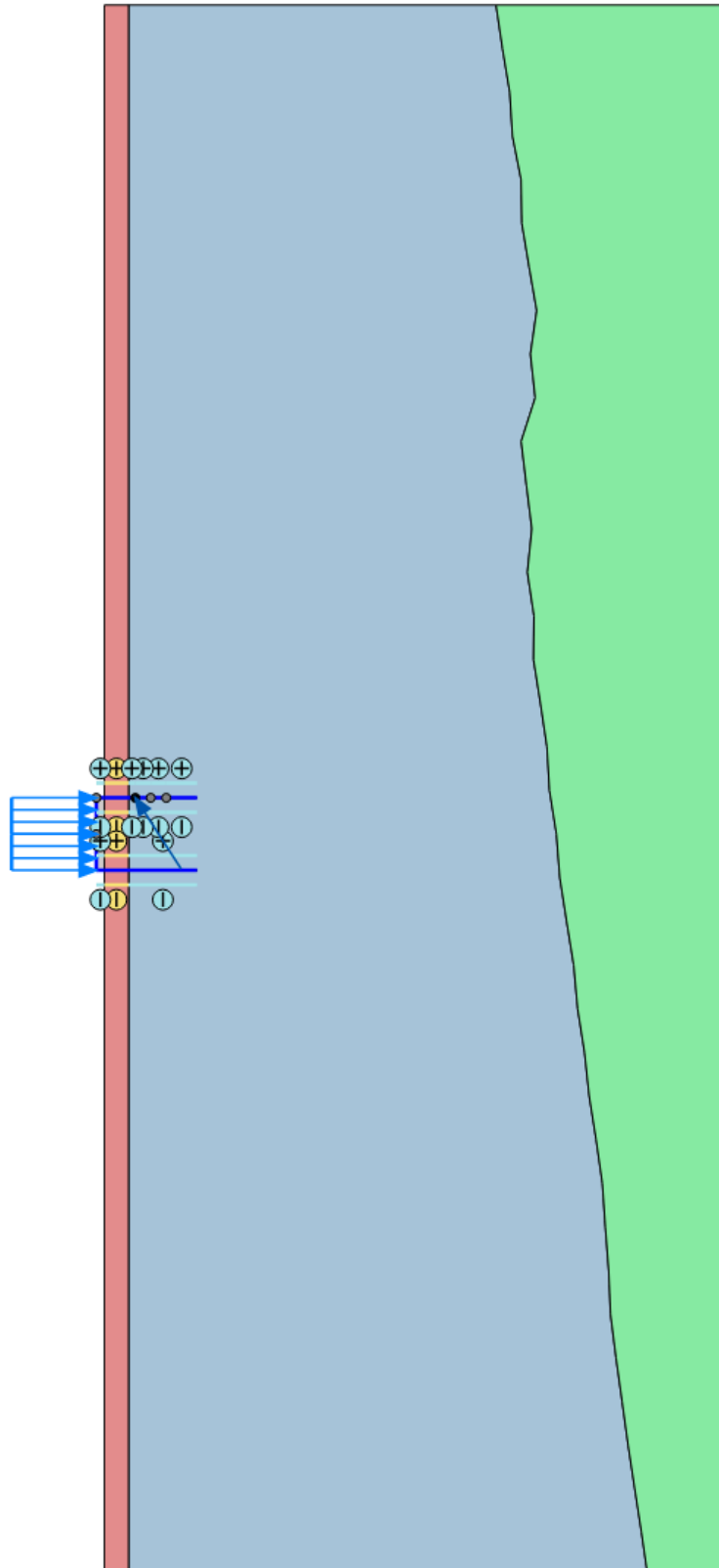


3.1.8 1/3 from skirt tip

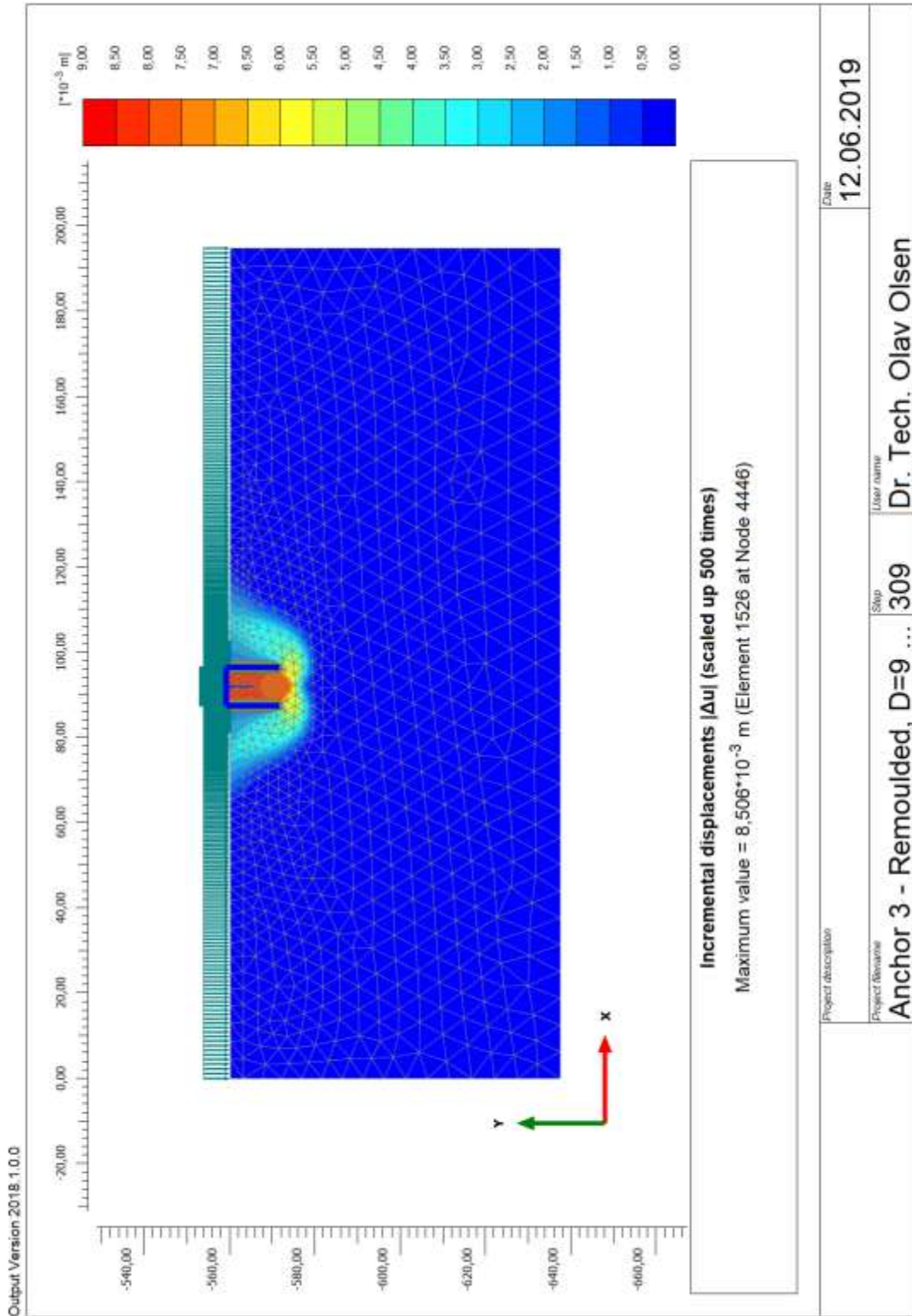


3.2 Top soil layer remoulded

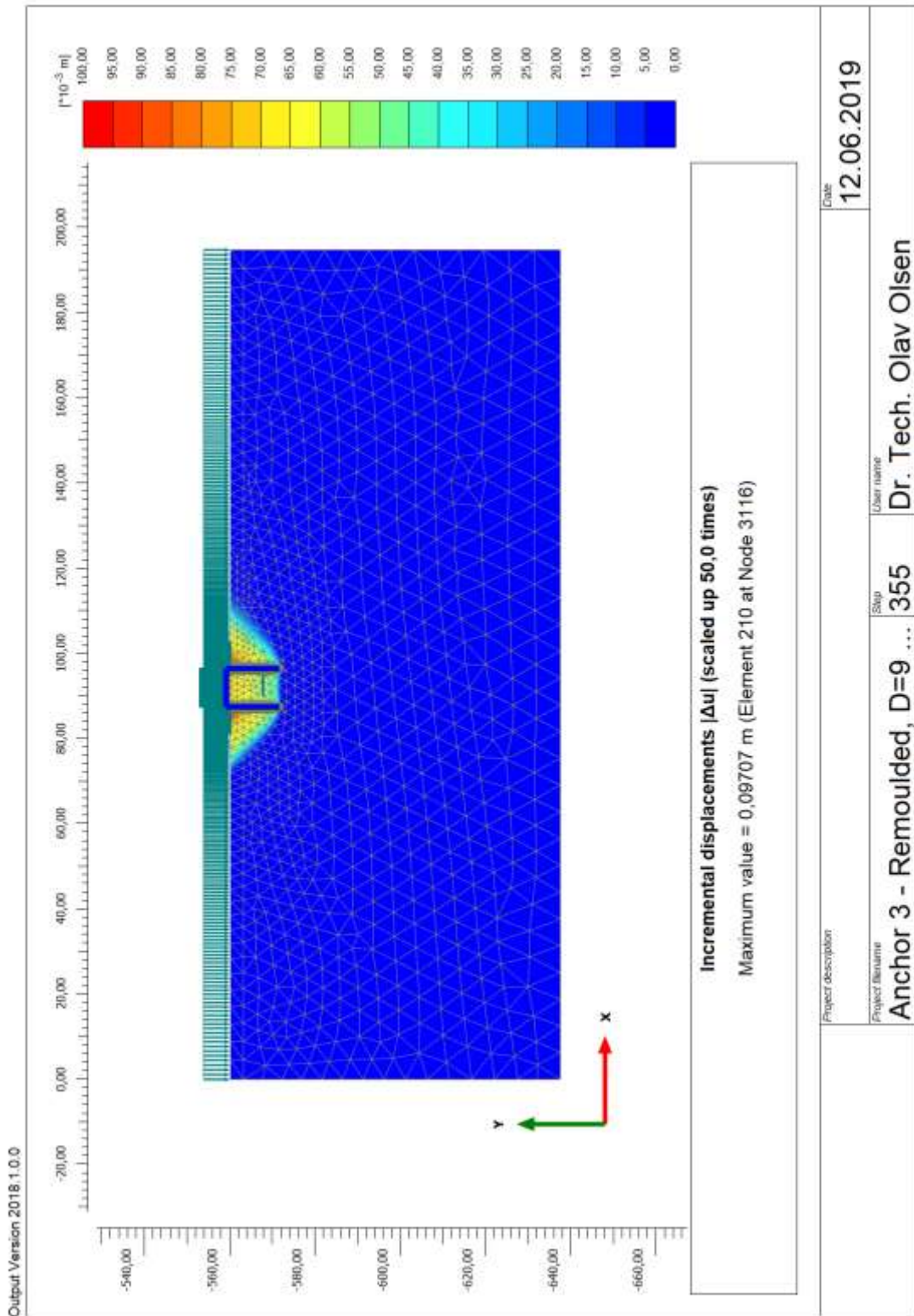
3.2.1 Model



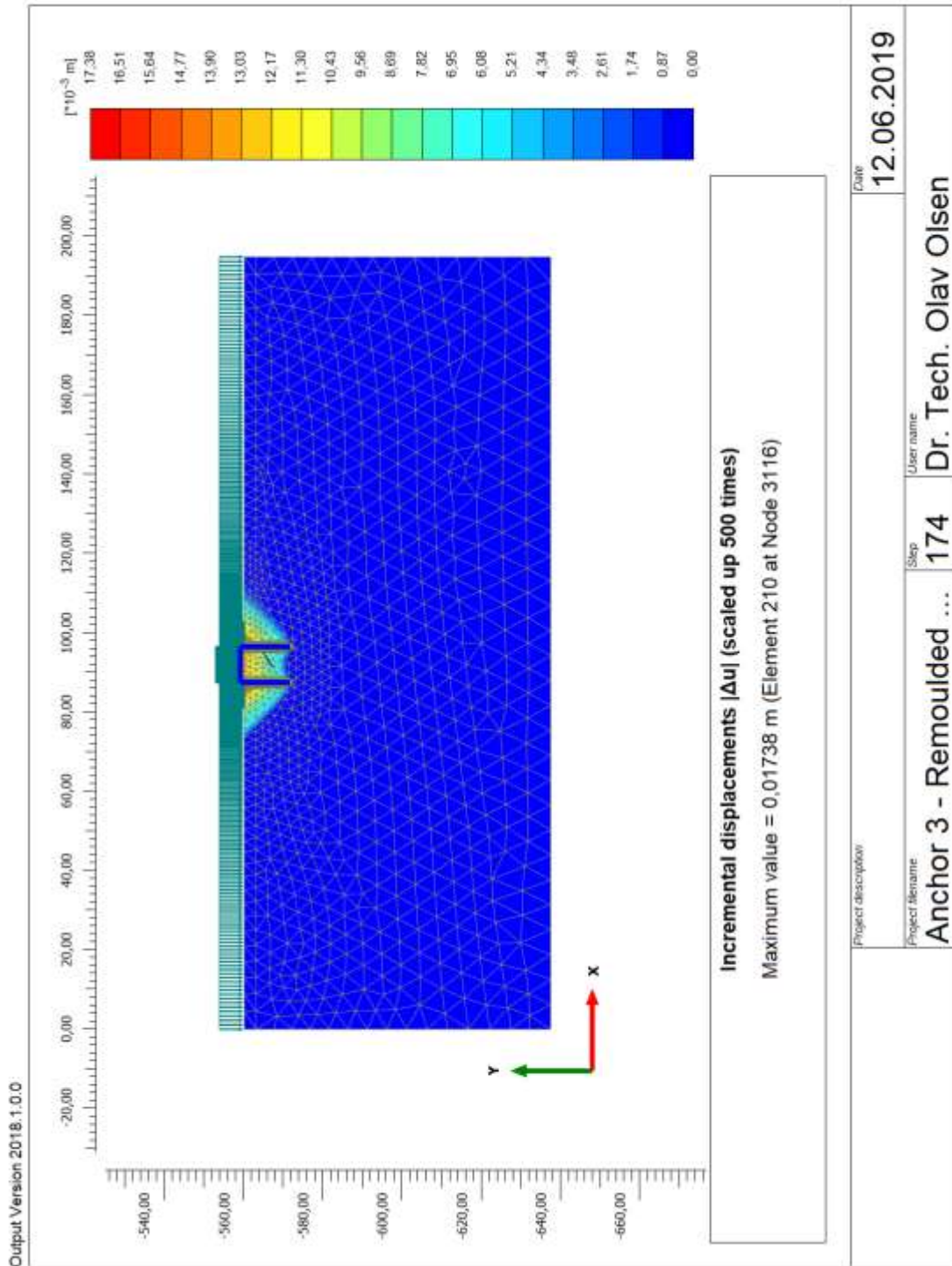
3.2.2 Vertical failure mode



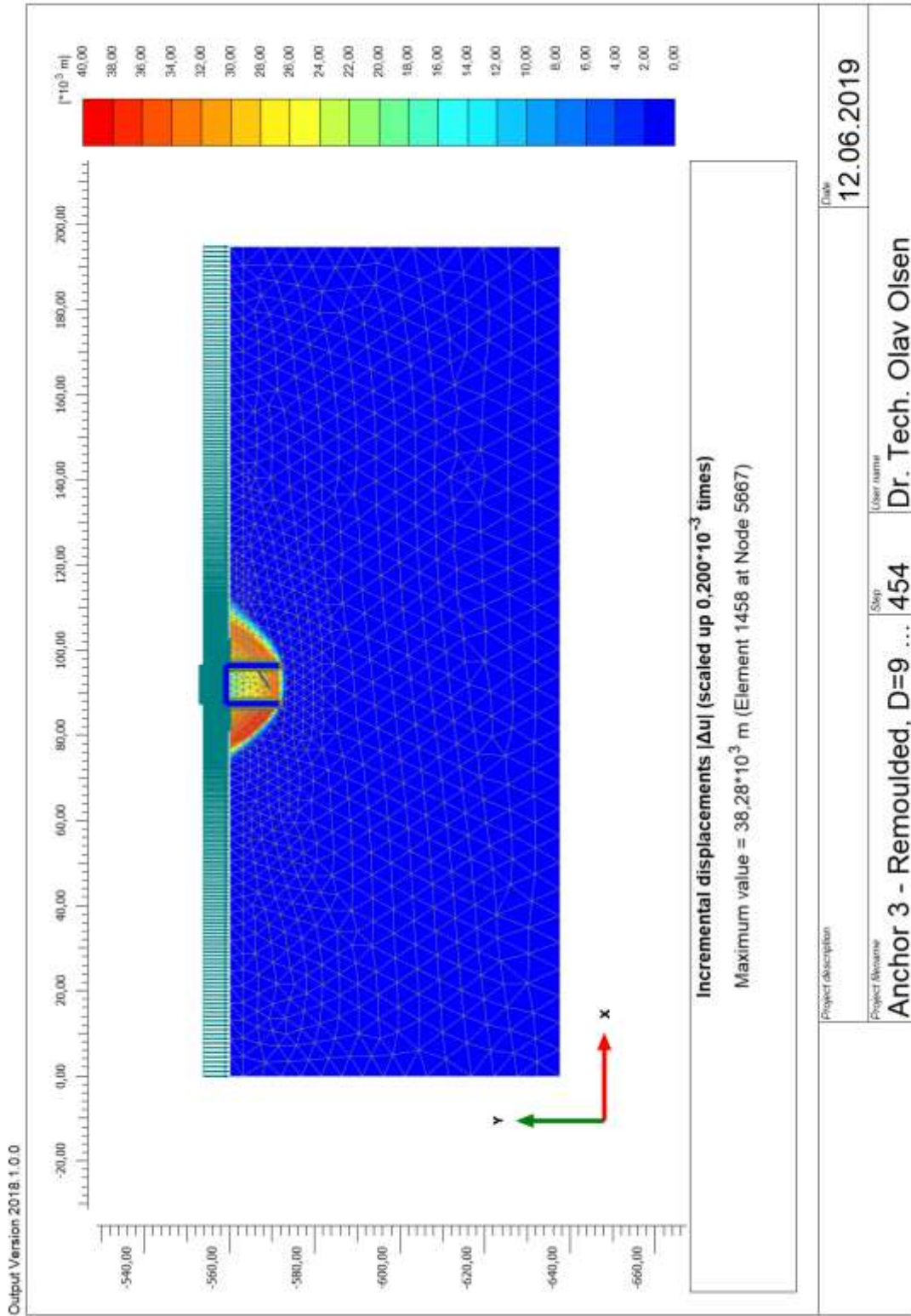
3.2.3 Horizontal failure mode



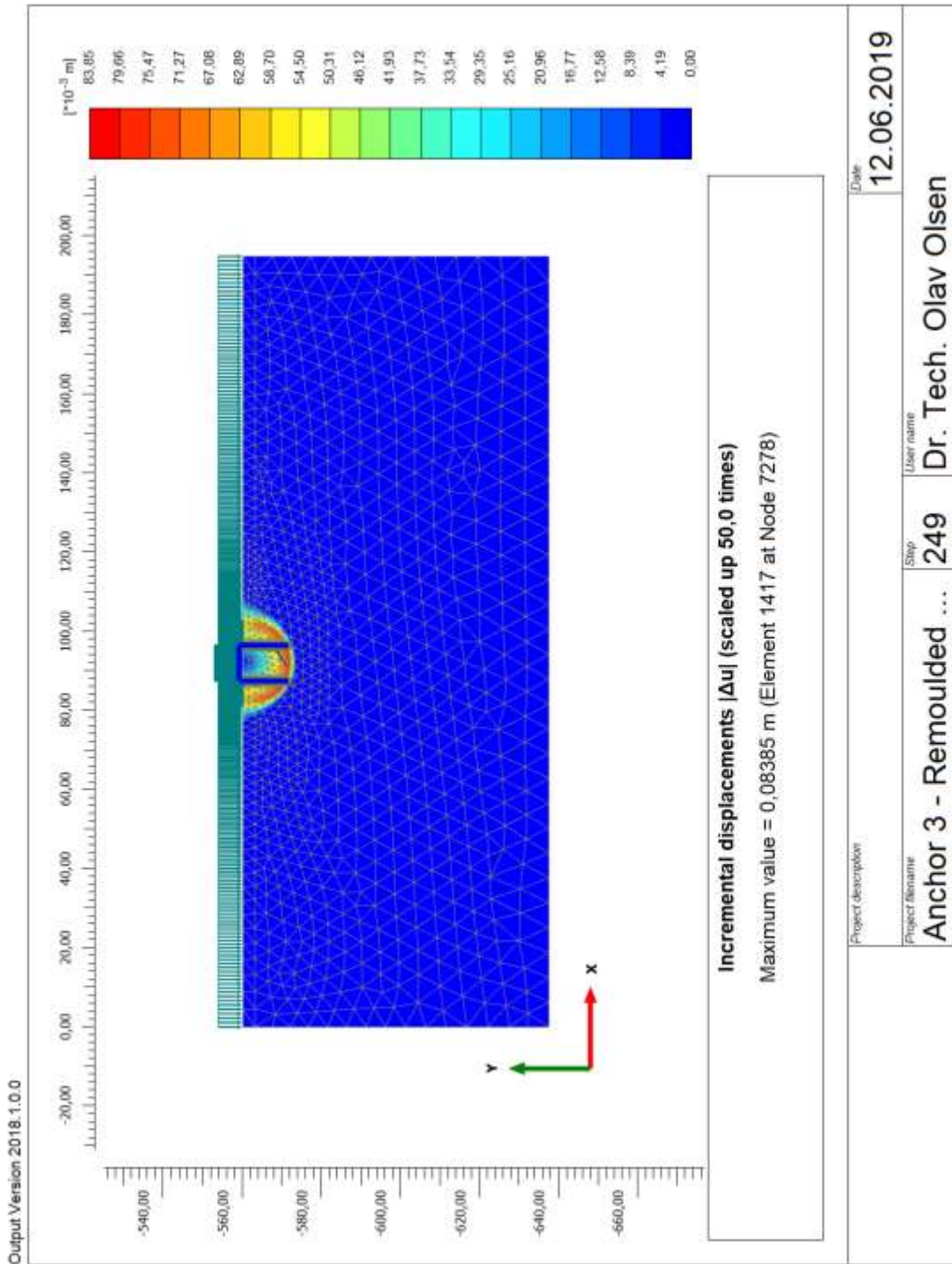
3.2.4 2/3 from skirt tip



3.2.5 1/2 from skirt tip



3.2.6 1/3 from skirt tip

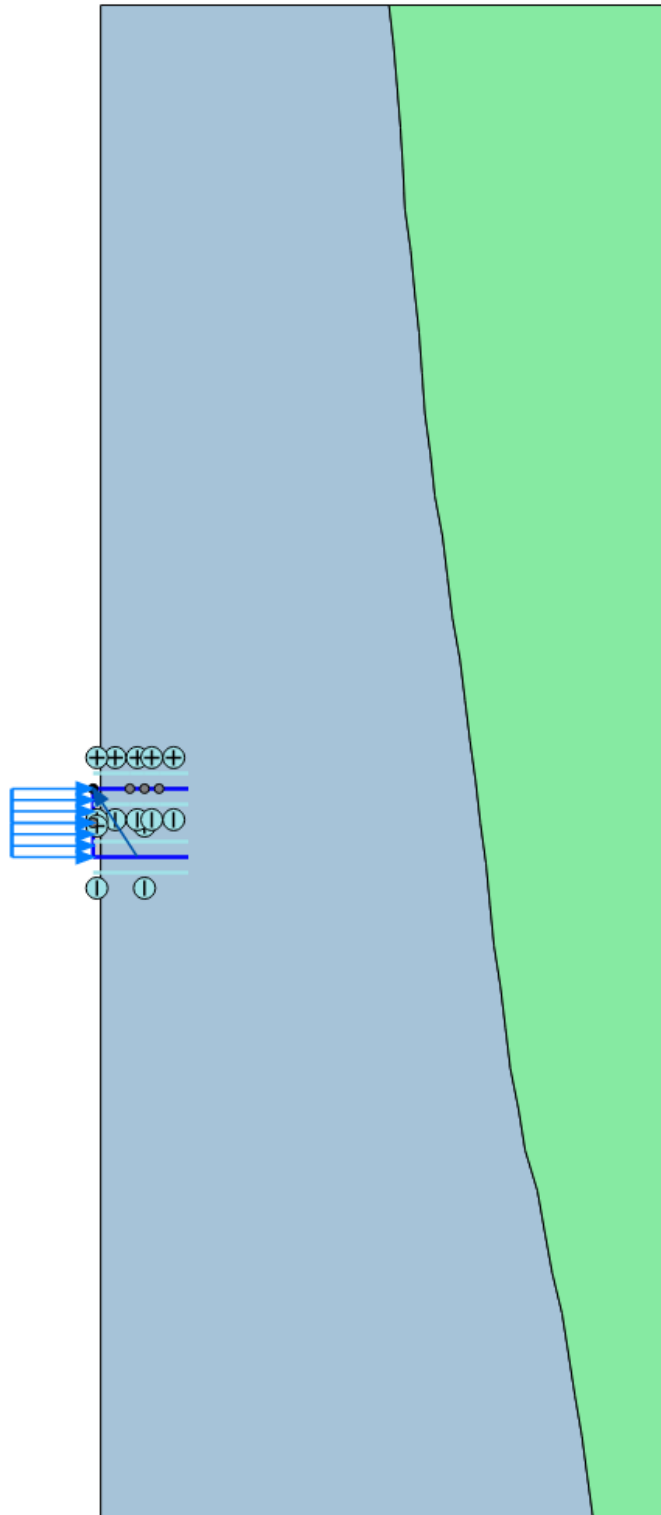


4 ANCHOR PROFILE 4

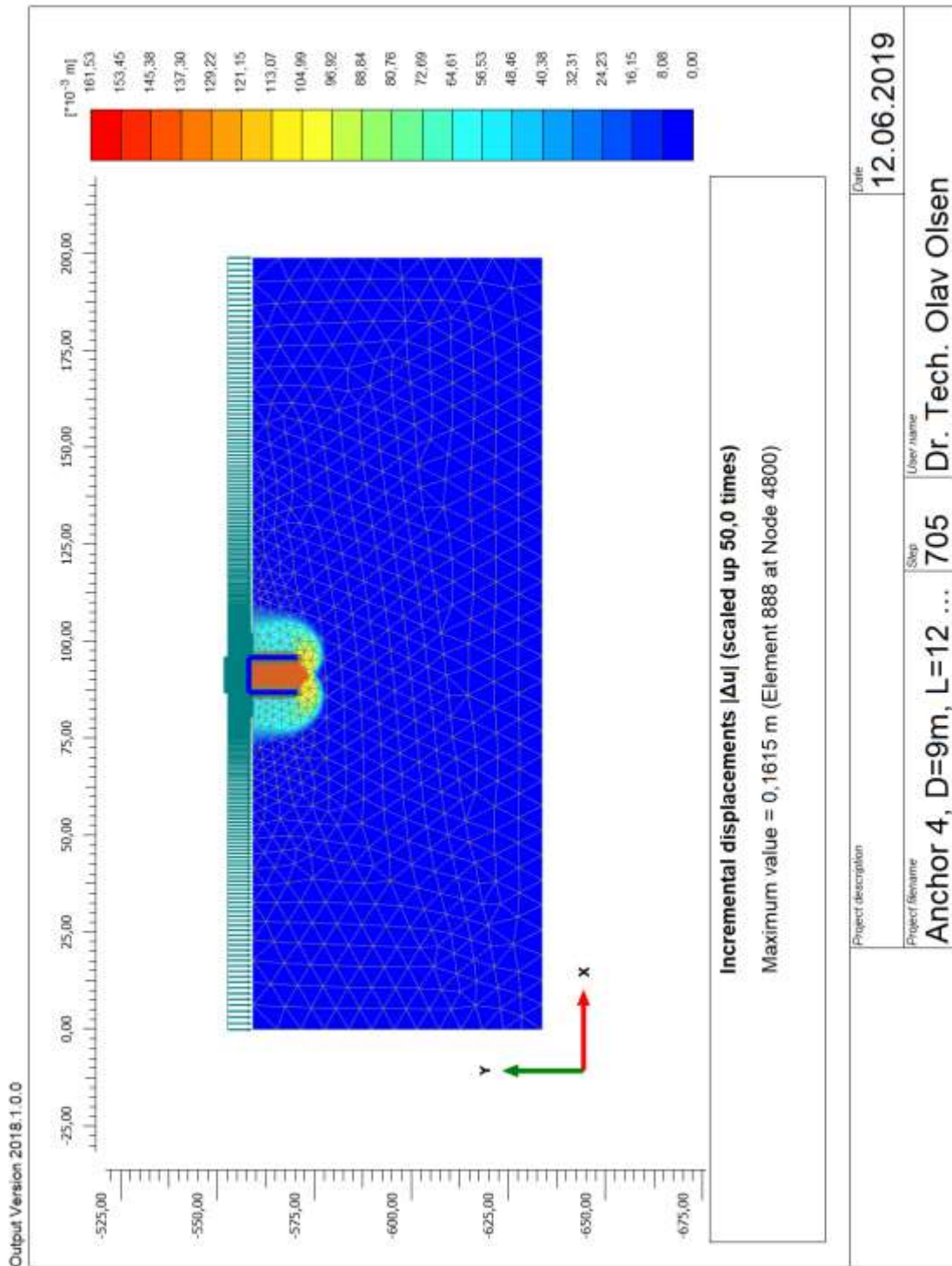
45

4.1 Intact soil

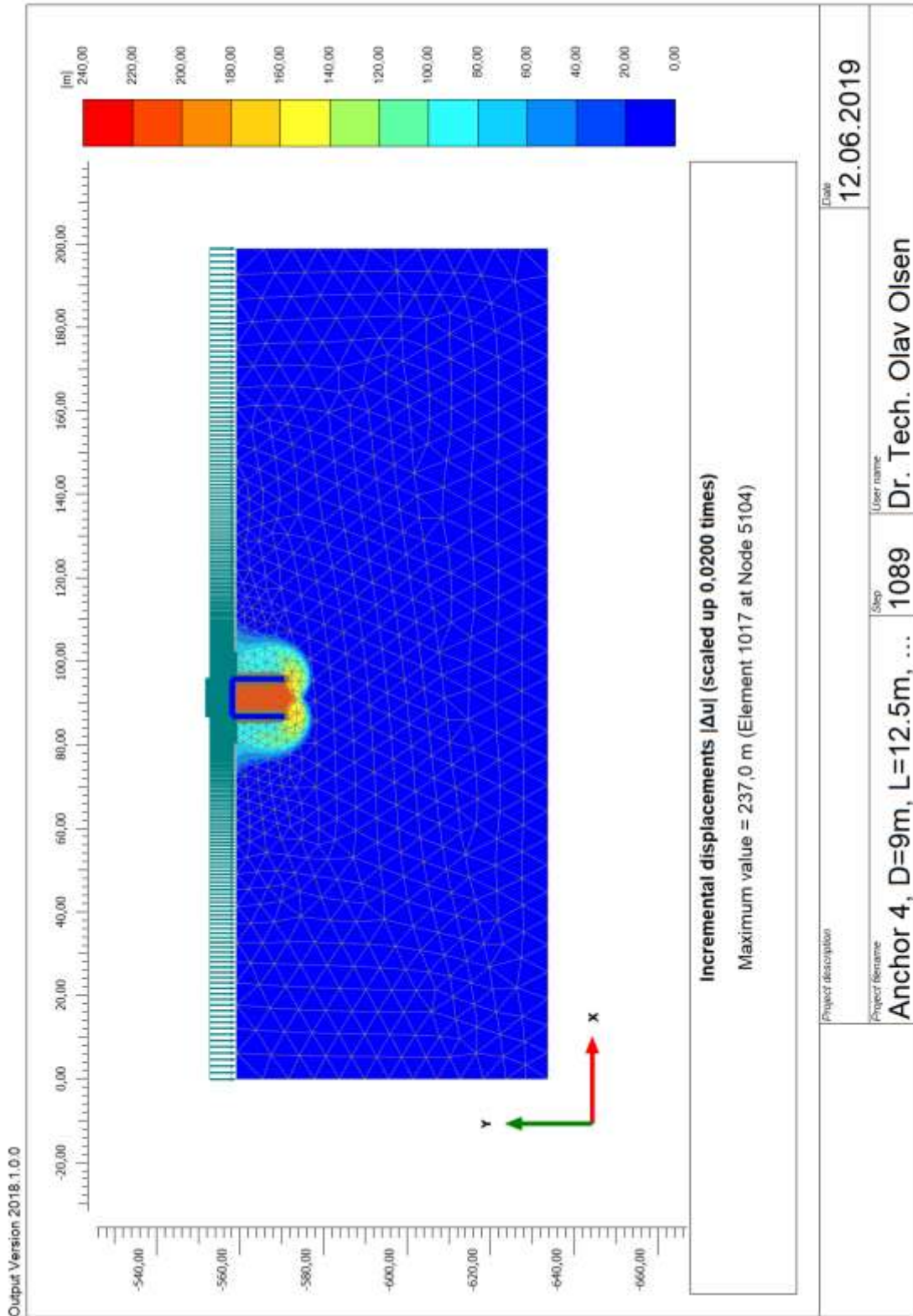
4.1.1 Model



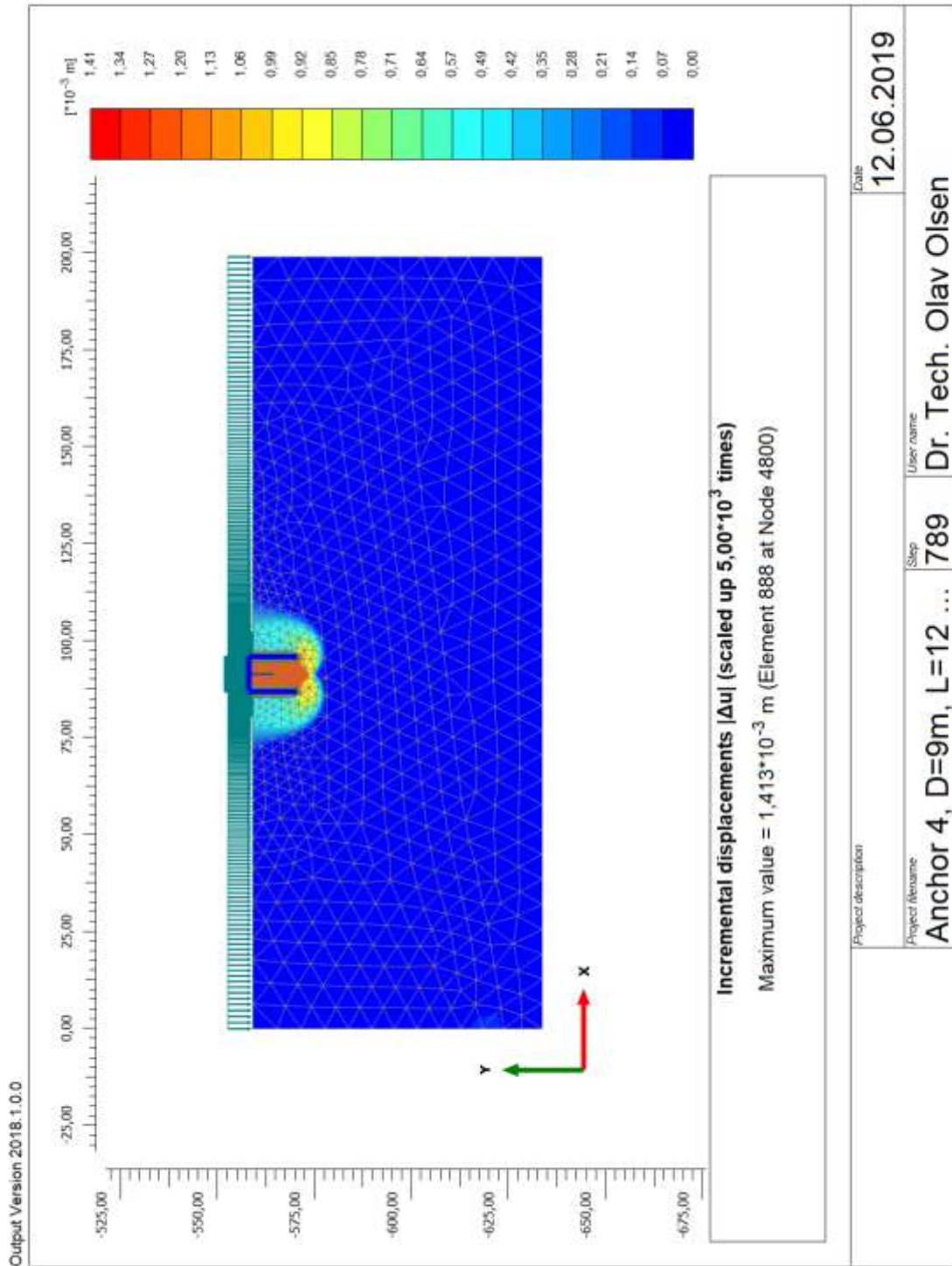
4.1.2 Undrained local slope stability



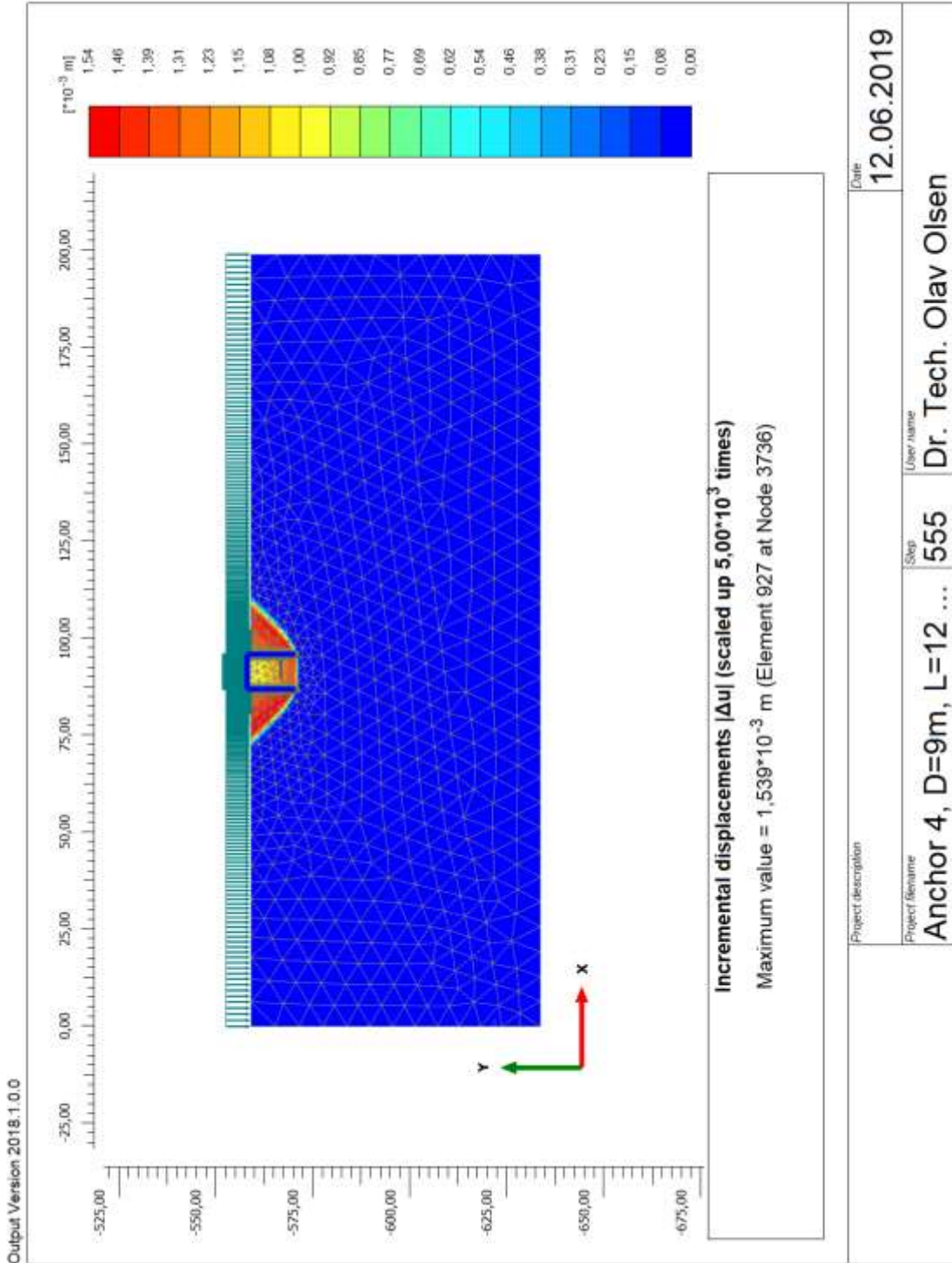
4.1.3 Drained local slope stability



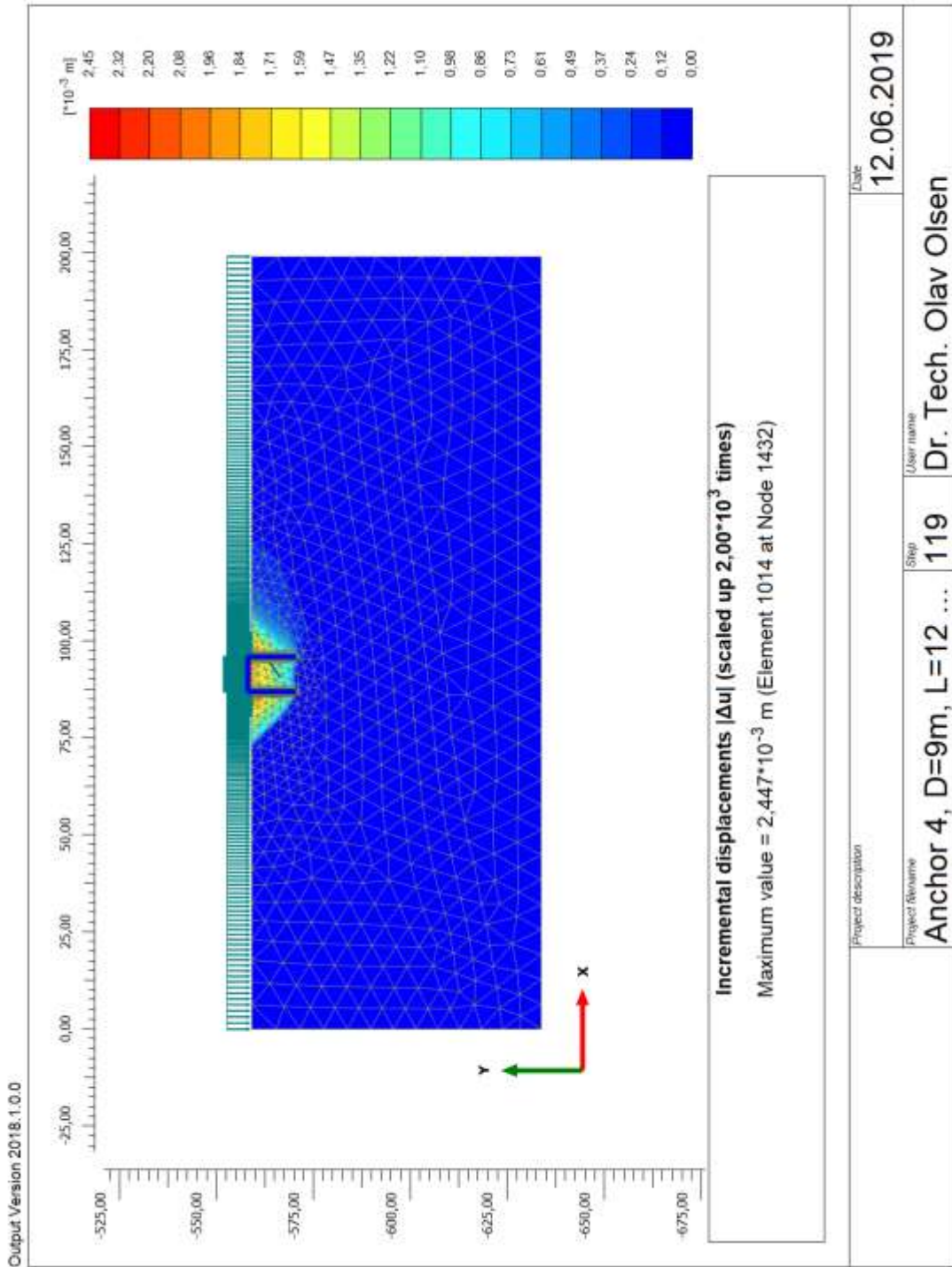
4.1.4 Vertical failure mode



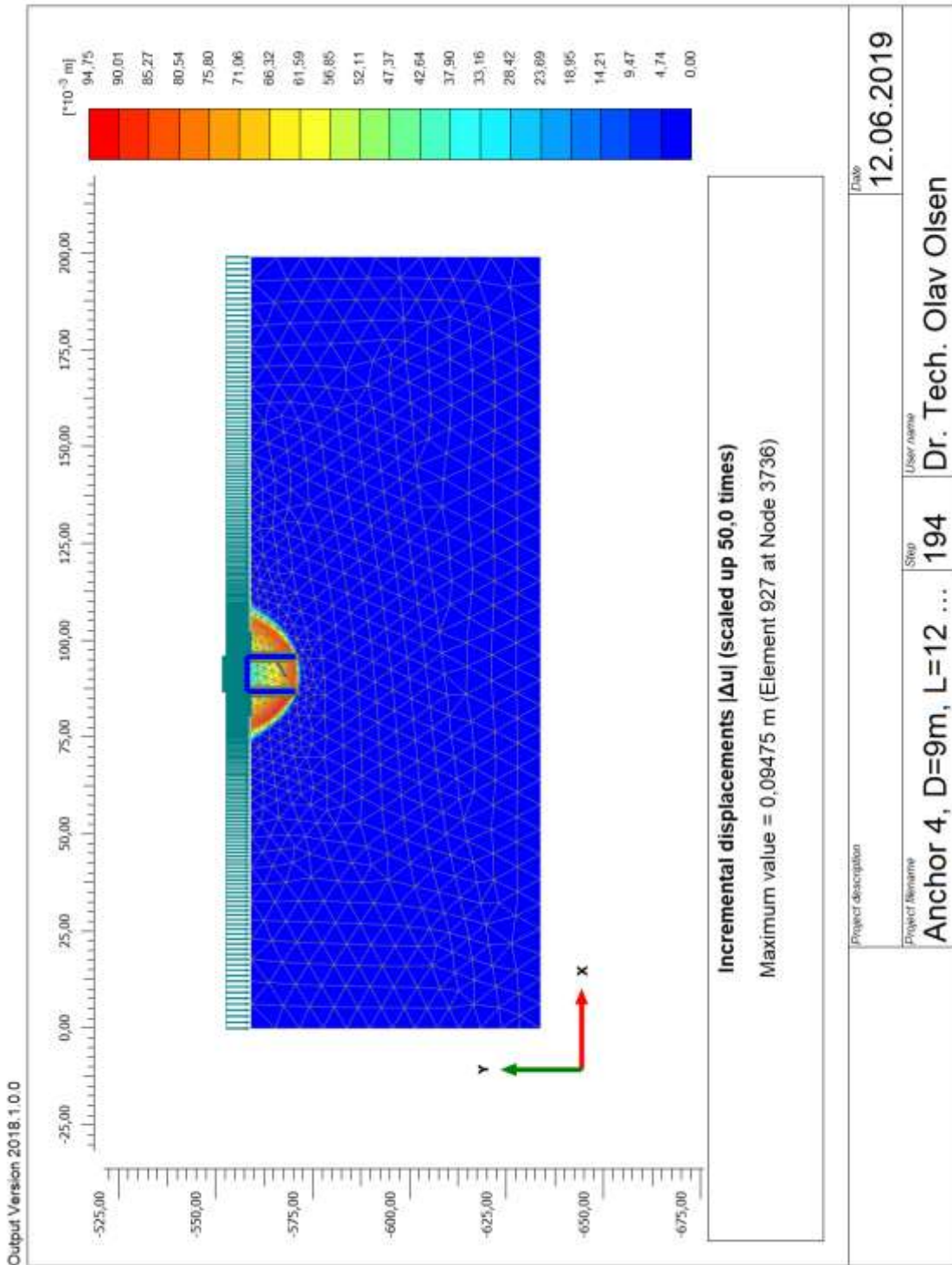
4.1.5 Horizontal failure mode



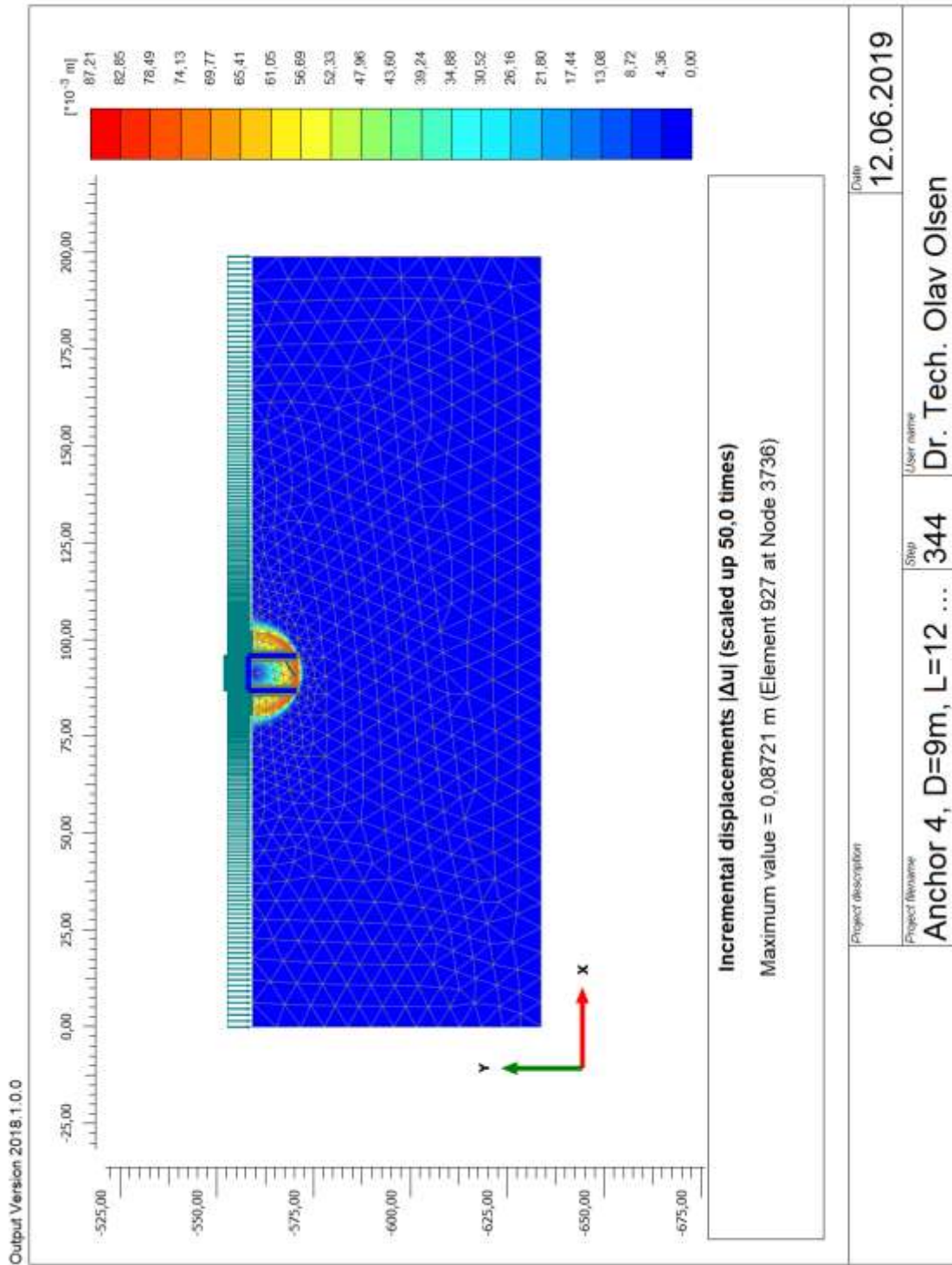
4.1.6 2/3 from skirt tip



4.1.7 1/2 from skirt tip

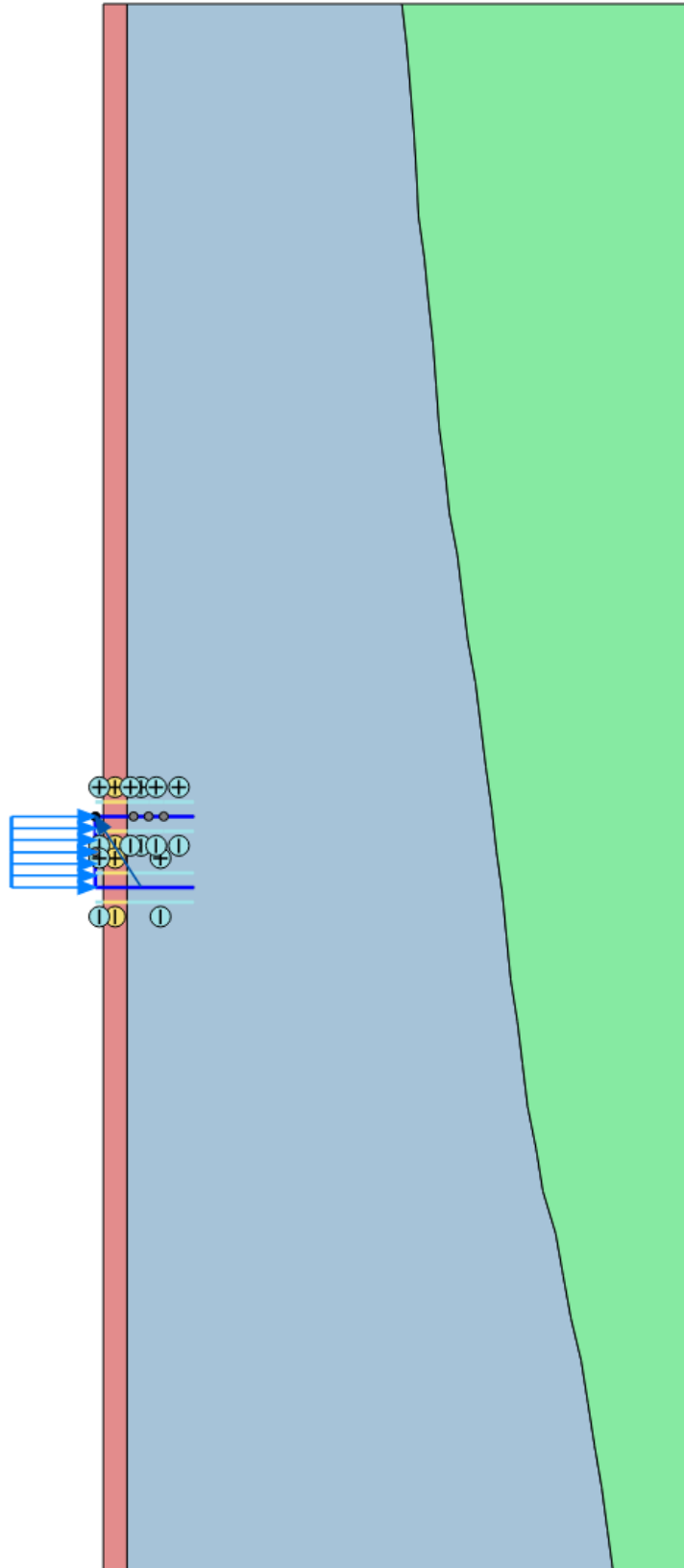


4.1.8 1/3 from skirt tip

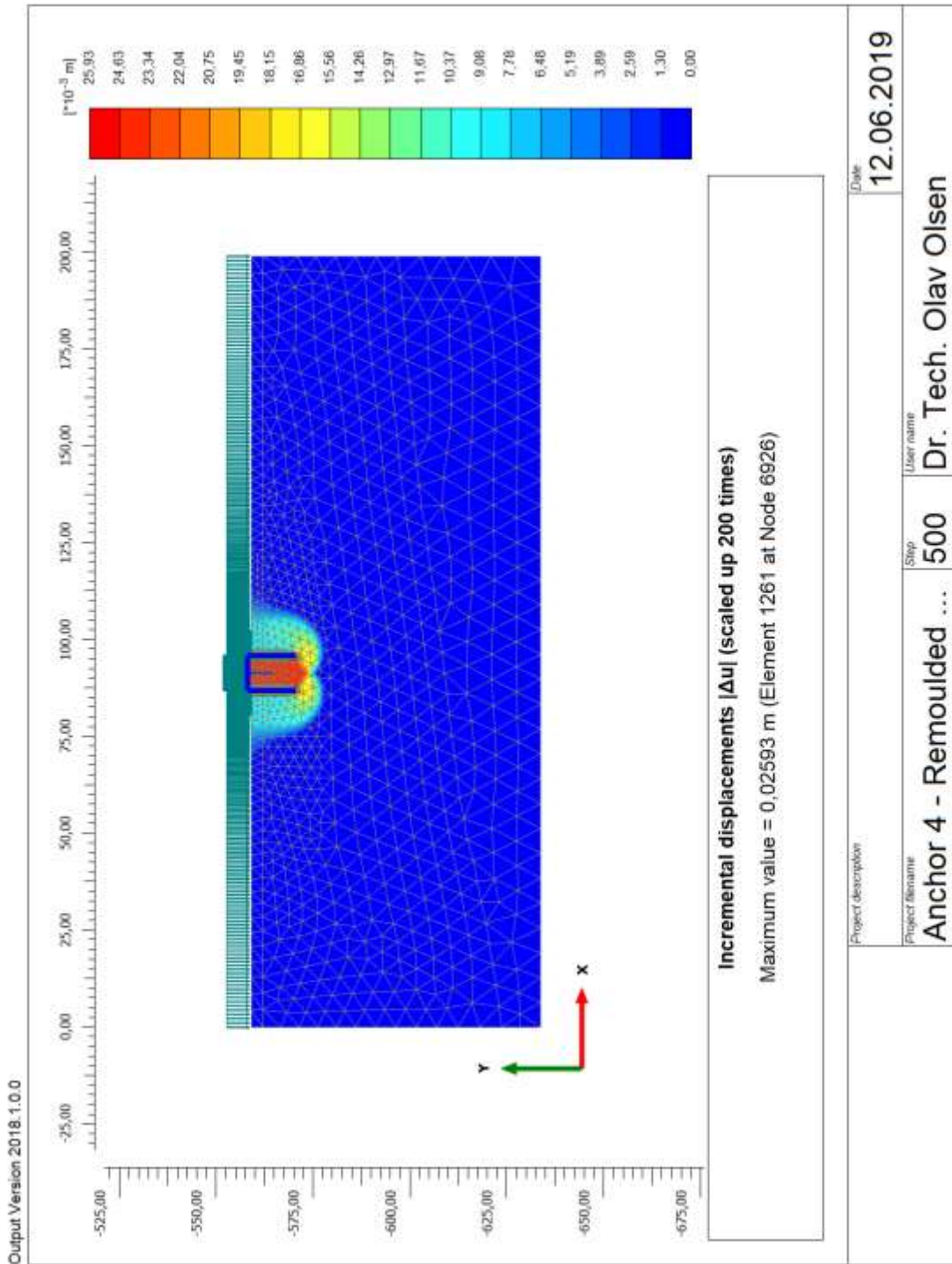


4.2 Top soil layer remoulded

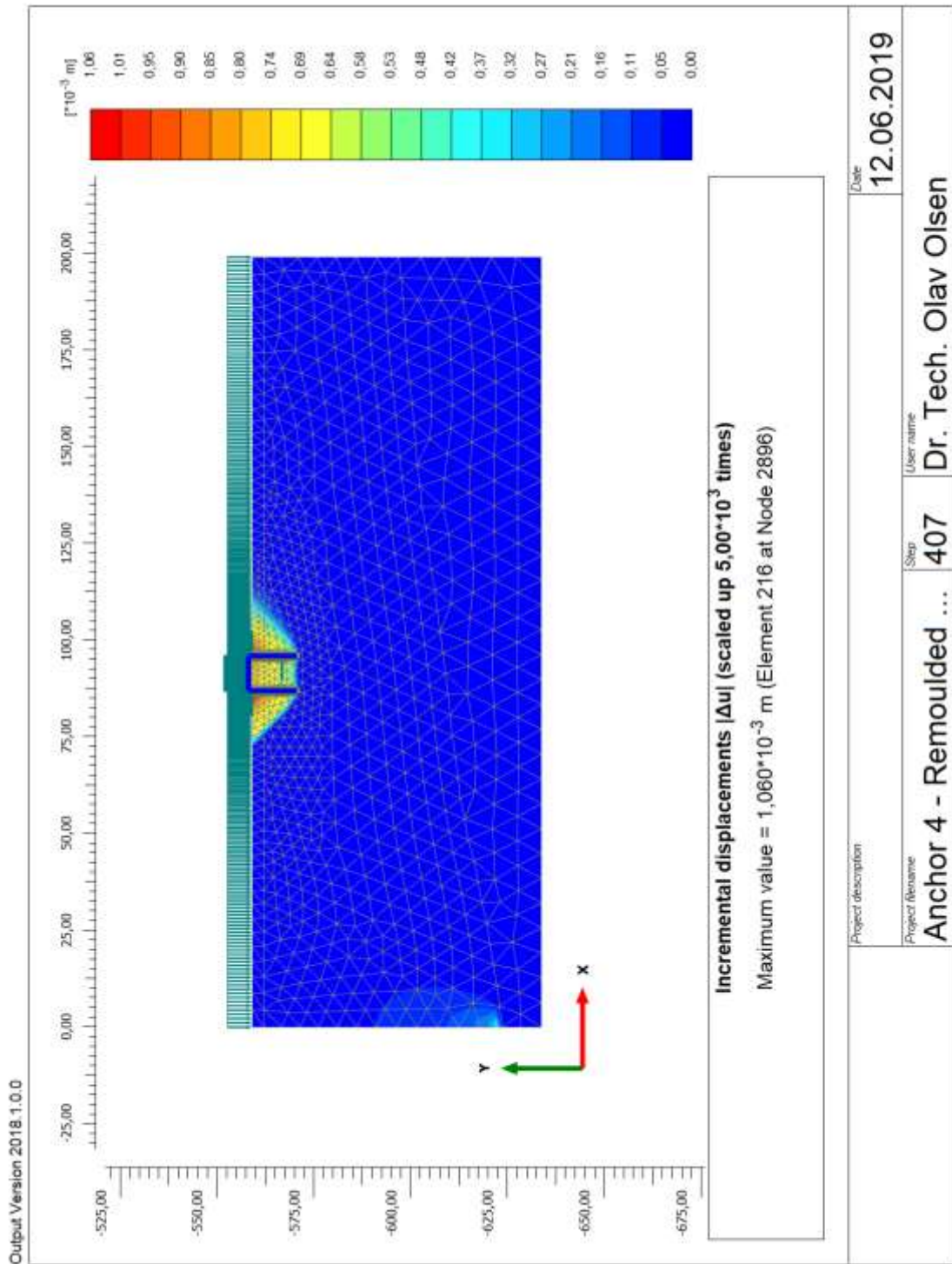
4.2.1 Model



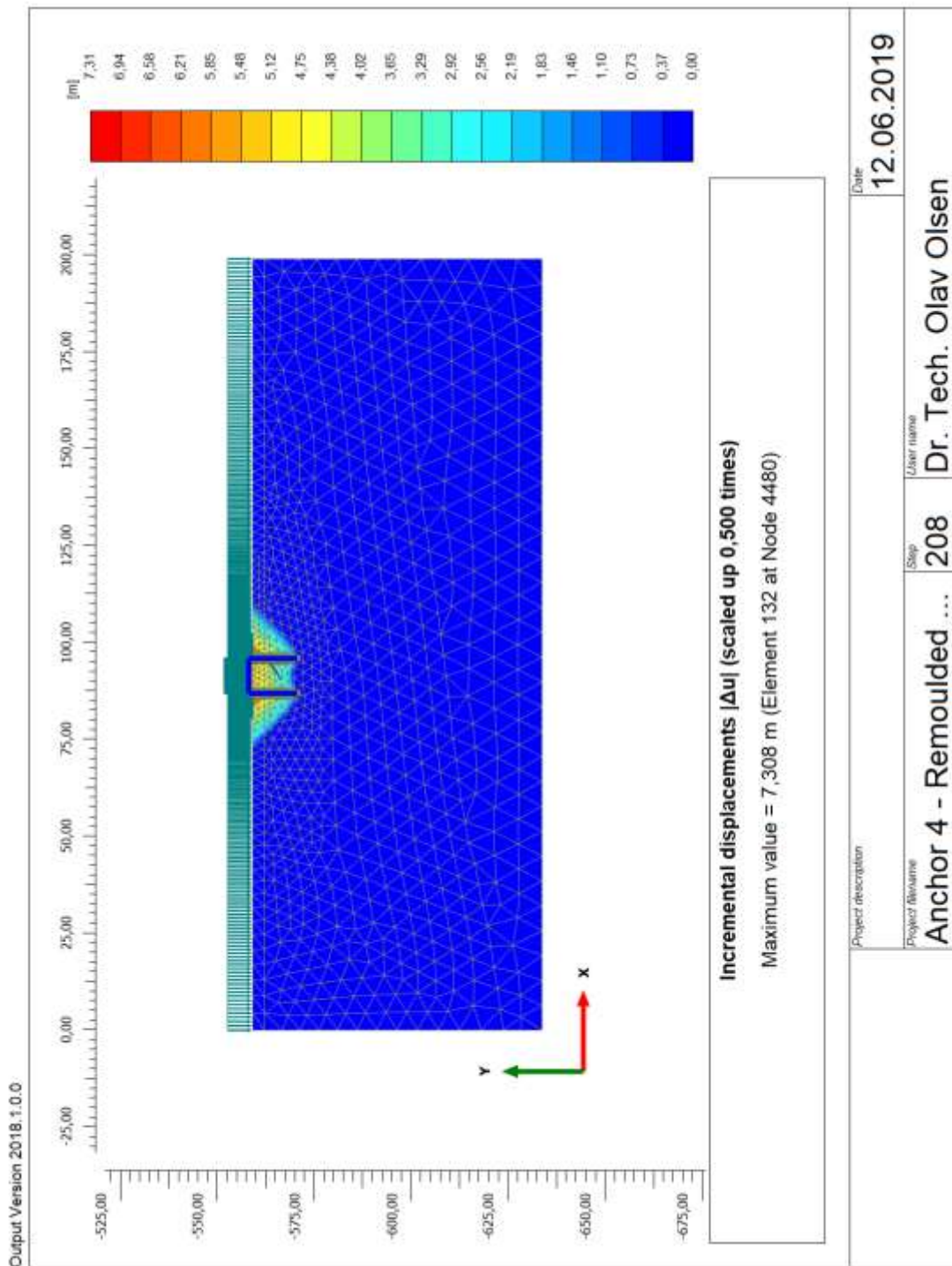
4.2.2 Vertical failure mode



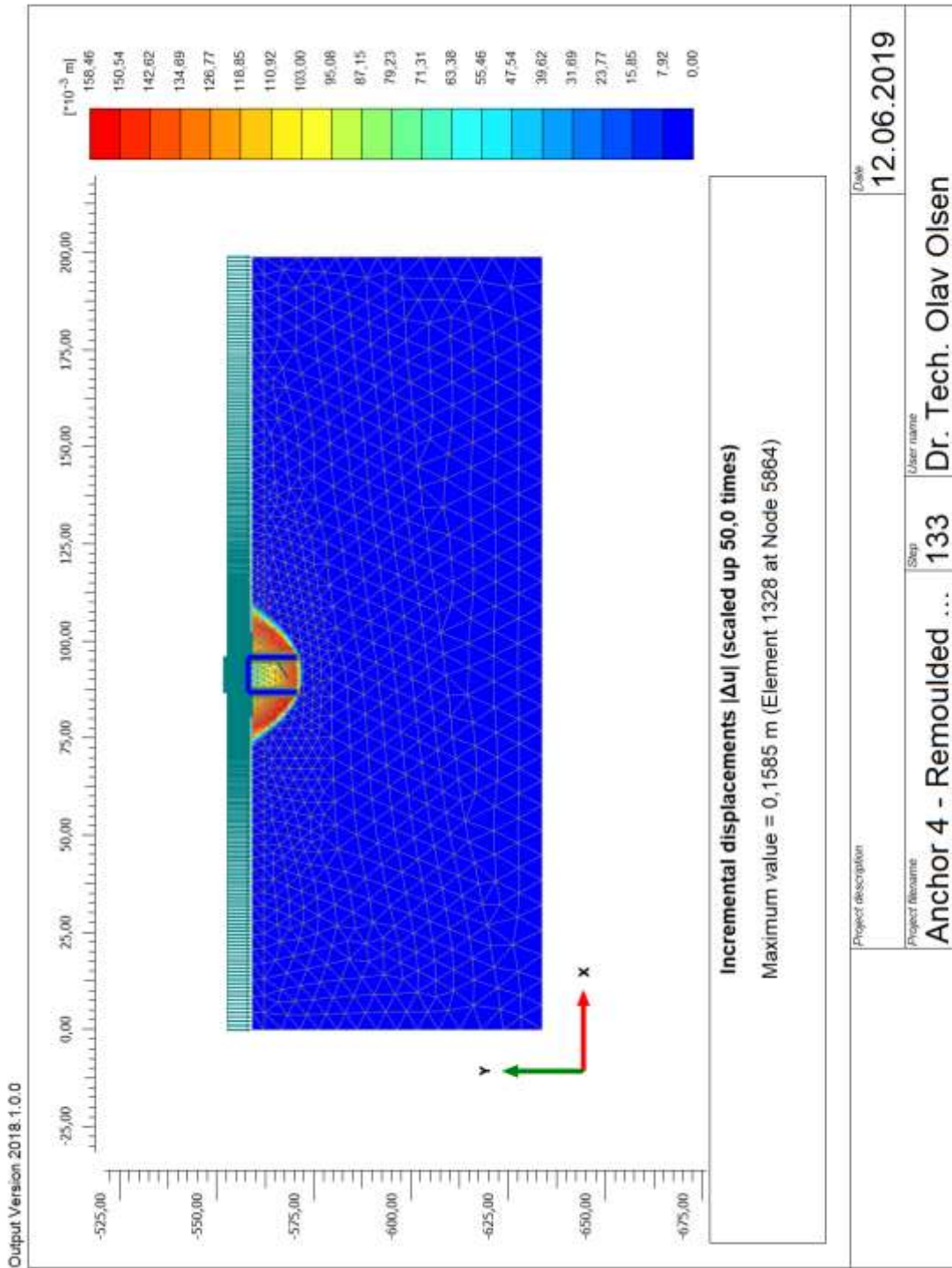
4.2.3 Horizontal failure mode



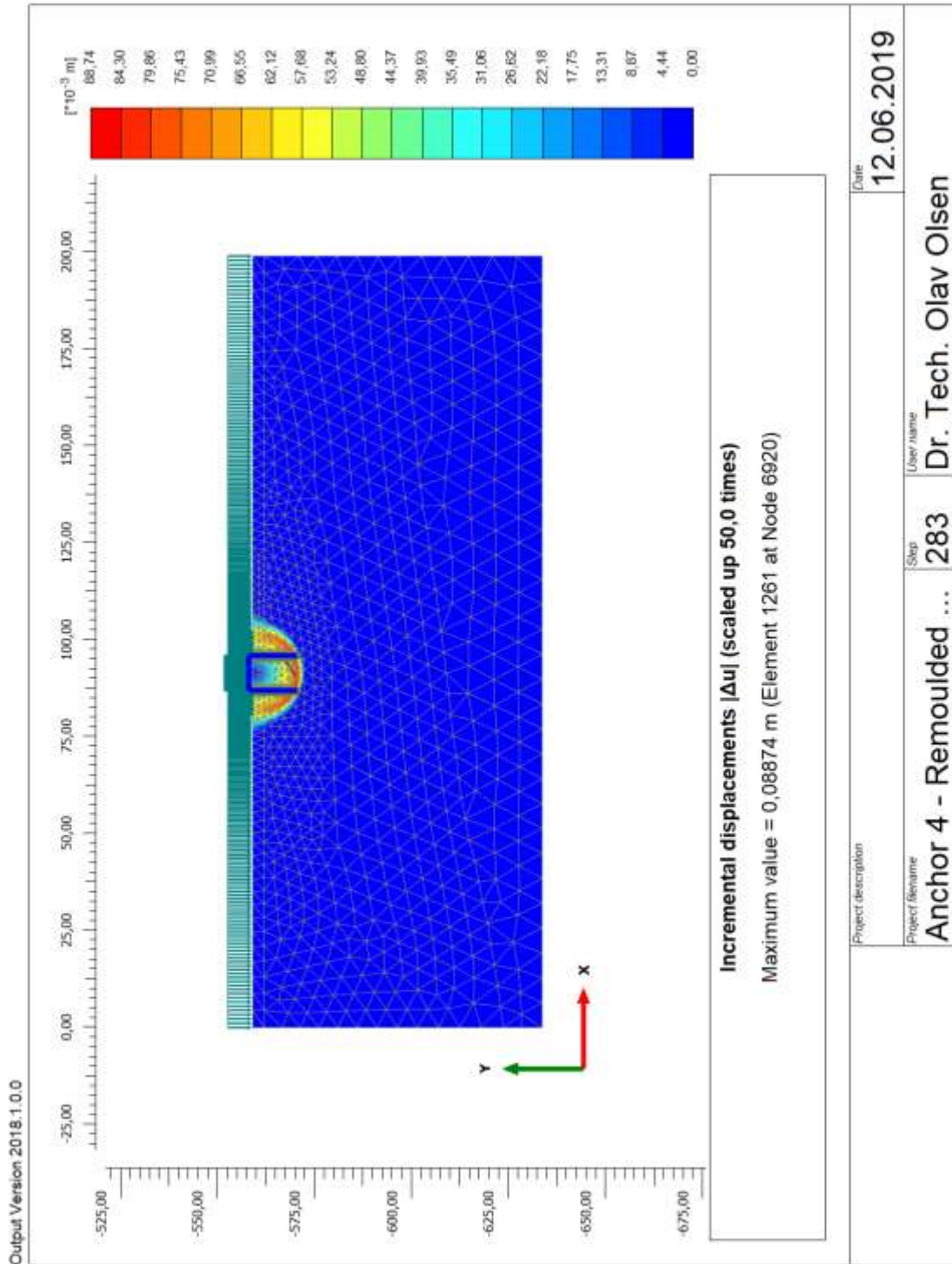
4.2.4 2/3 from skirt tip



4.2.5 1/2 from skirt tip



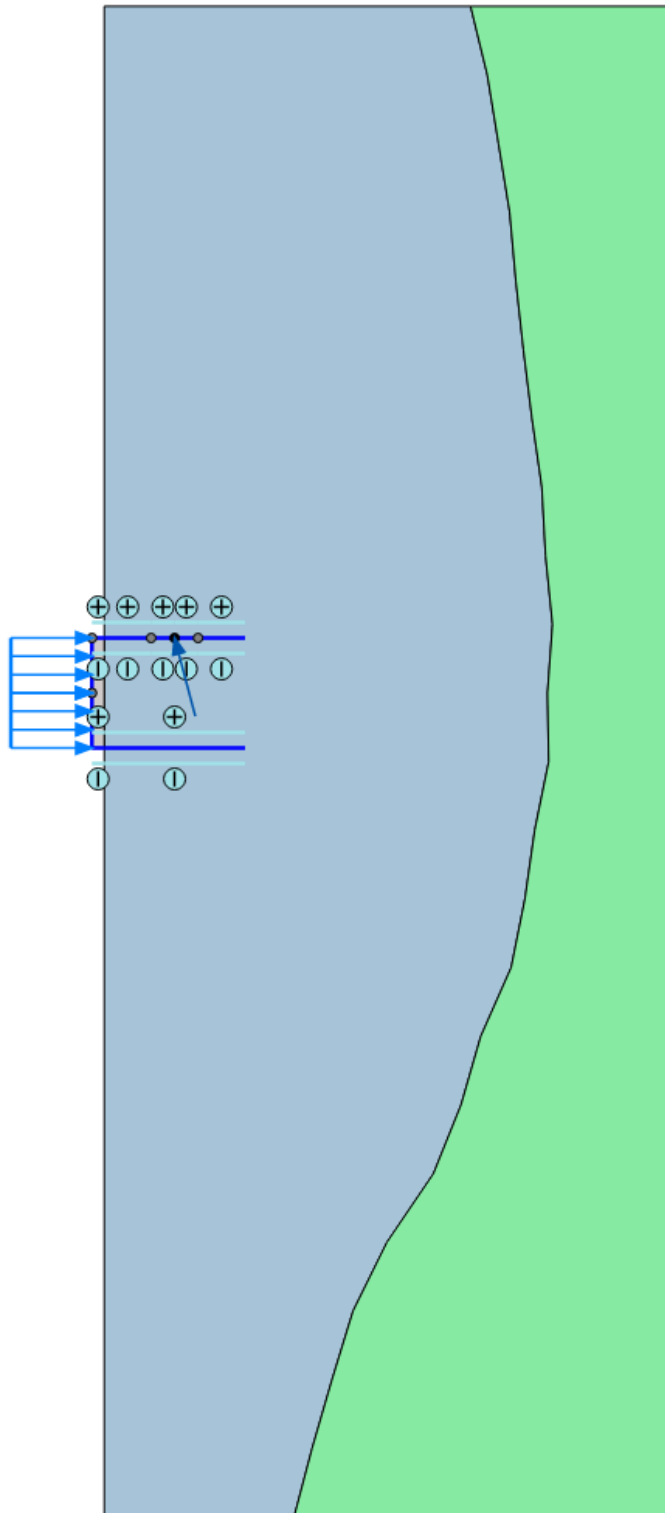
4.2.6 1/3 from skirt tip



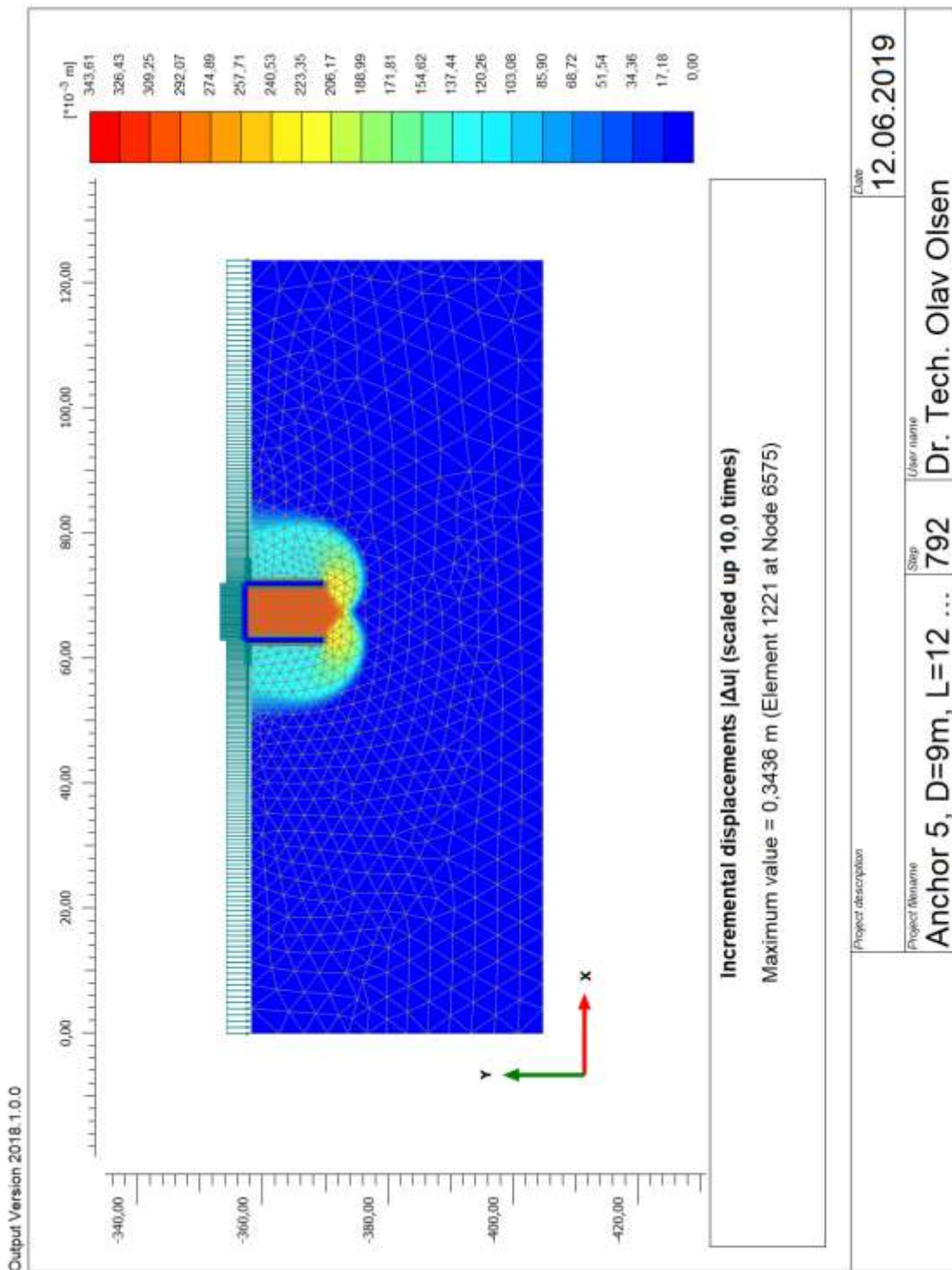
5 ANCHOR PROFILE 5

5.1 Intact soil

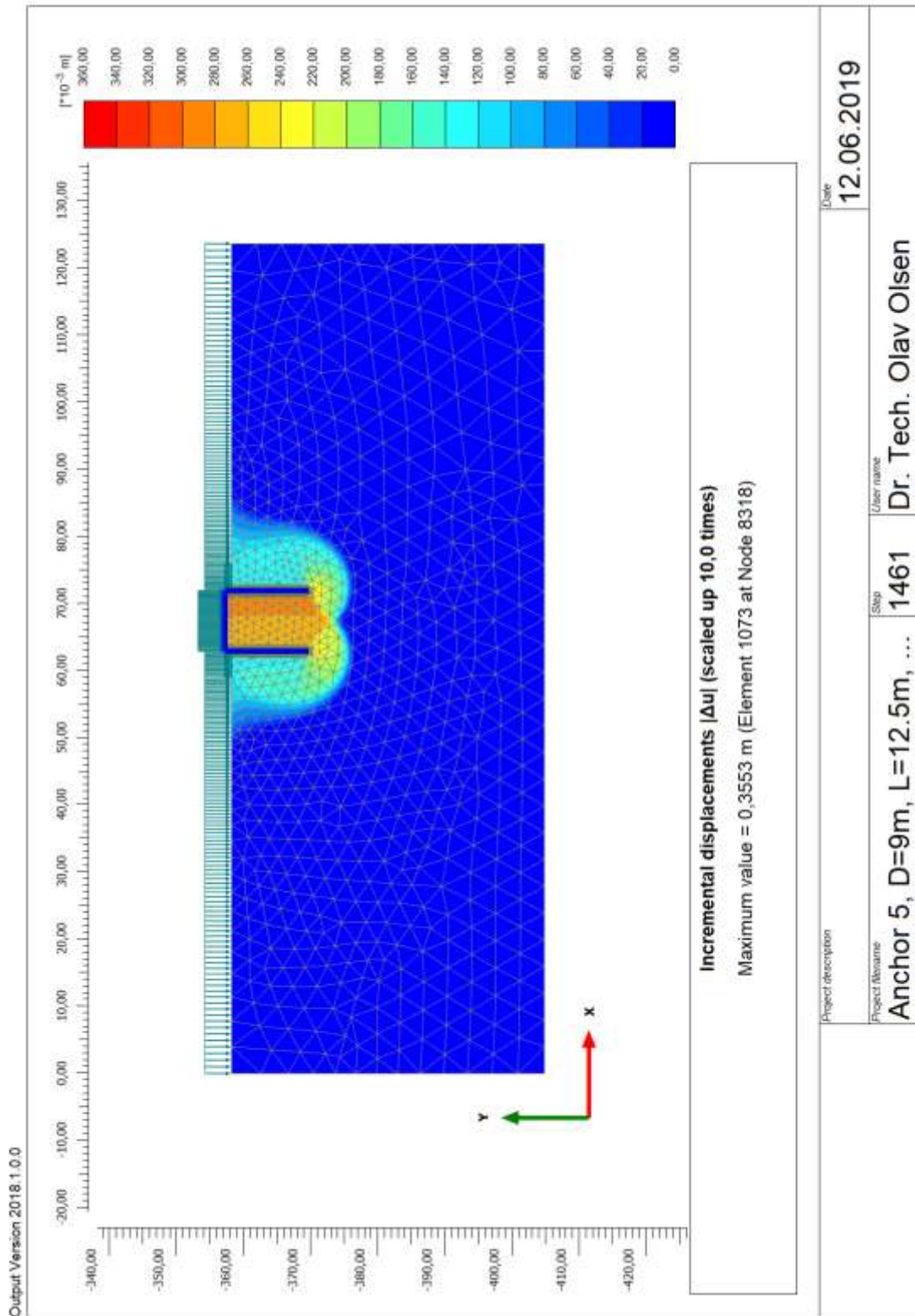
5.1.1 Model



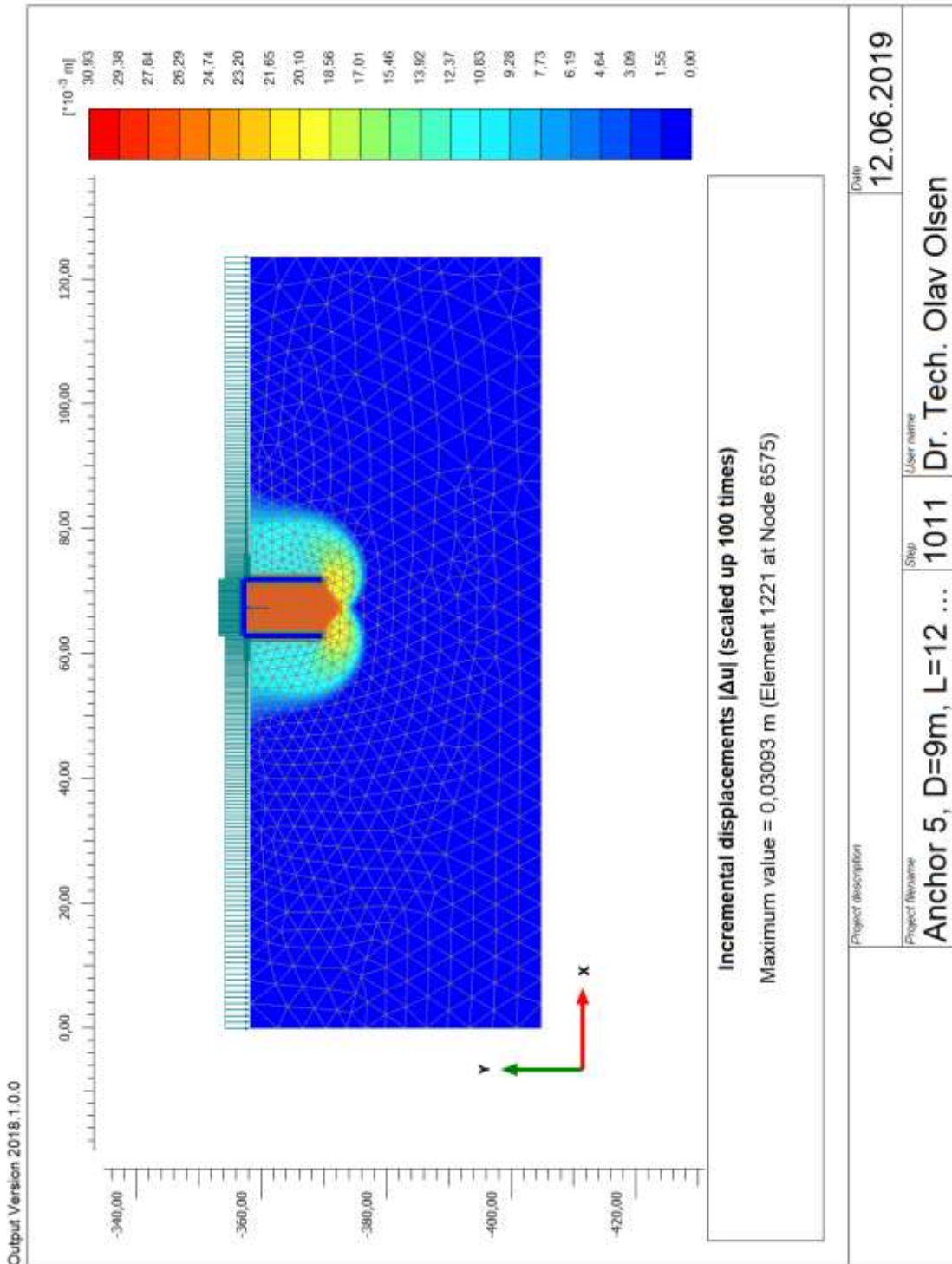
5.1.2 Undrained local slope stability



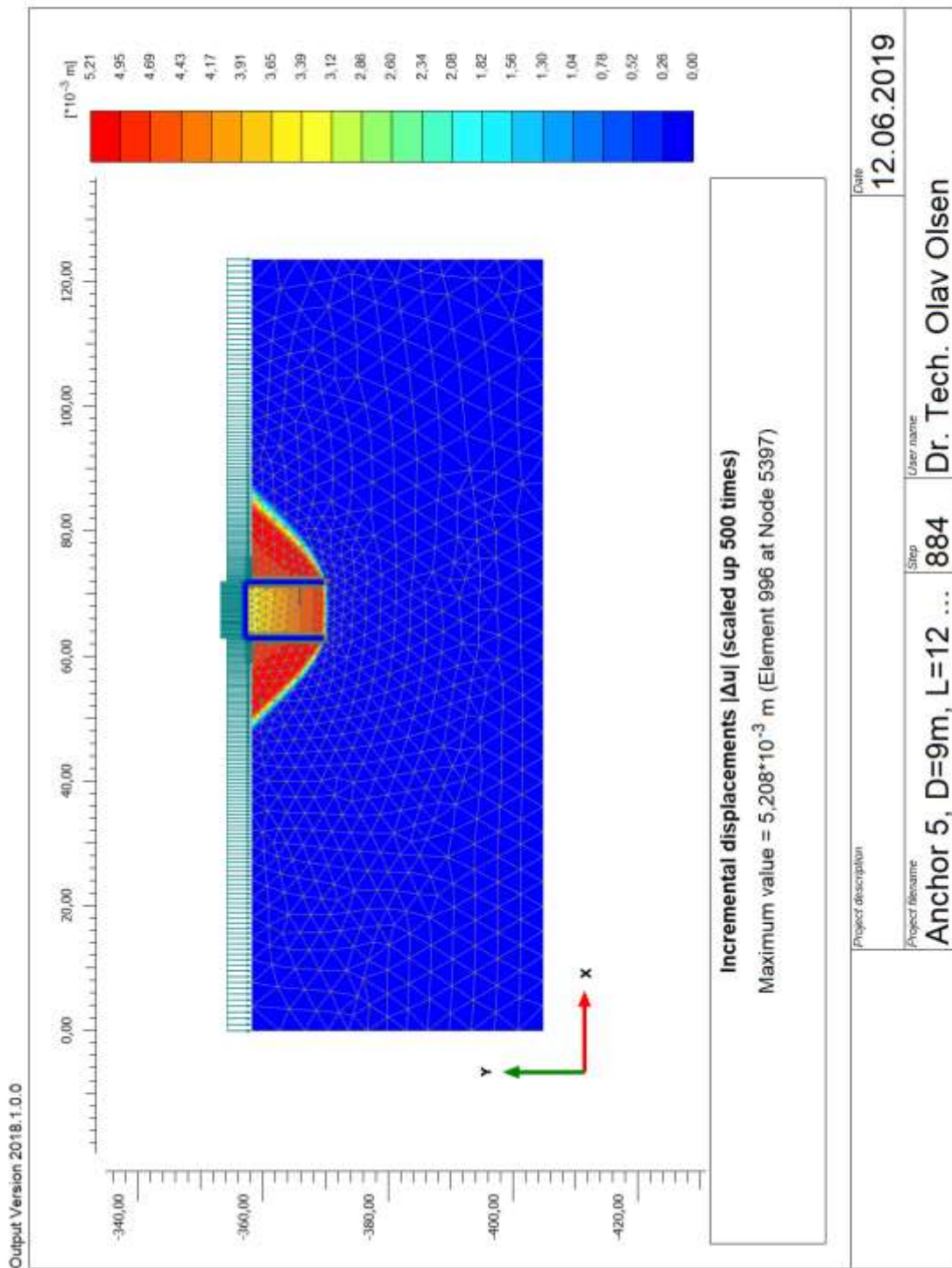
5.1.3 Drained local slope stability



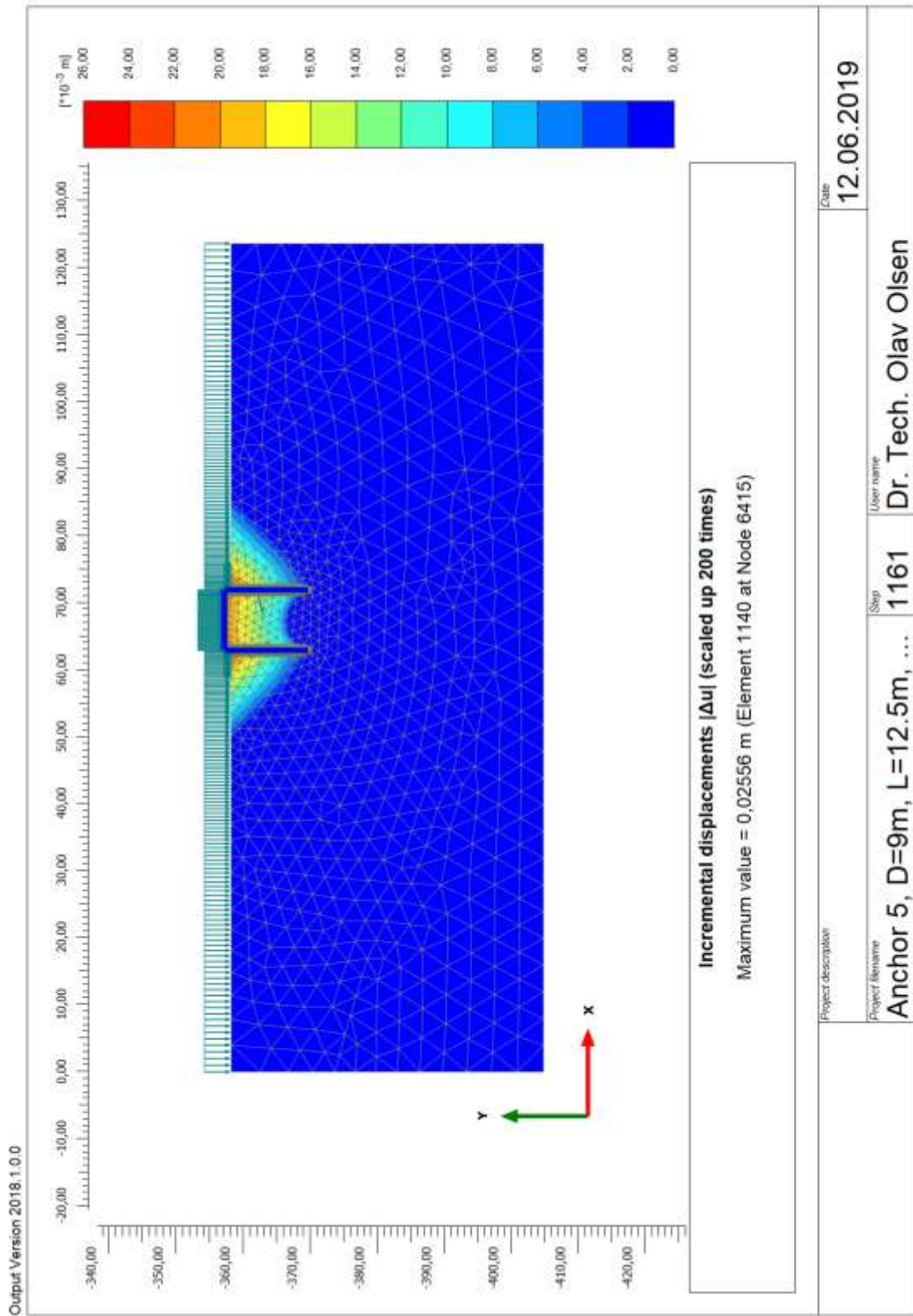
5.1.4 Vertical failure mode



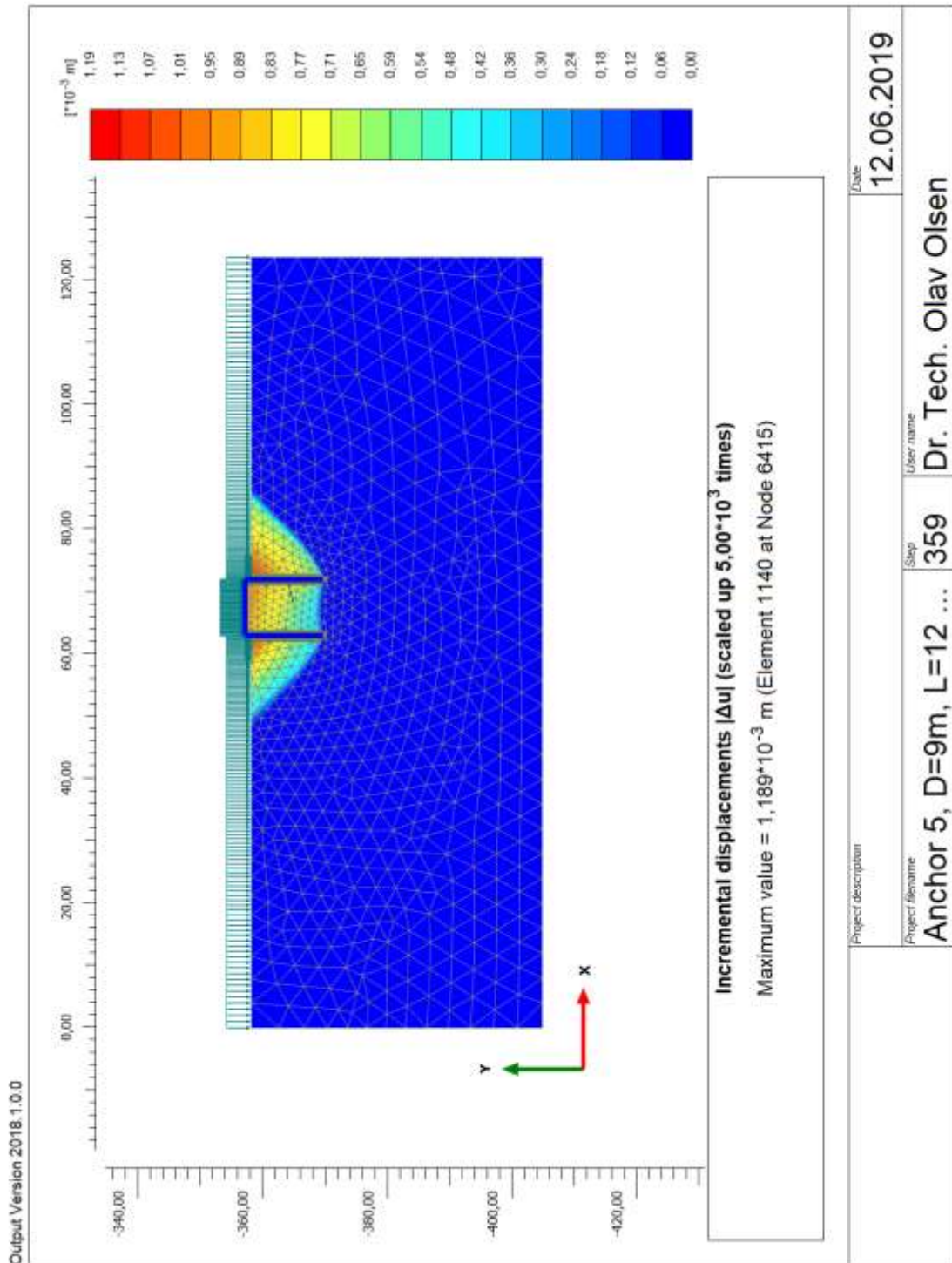
5.1.5 Horizontal failure mode



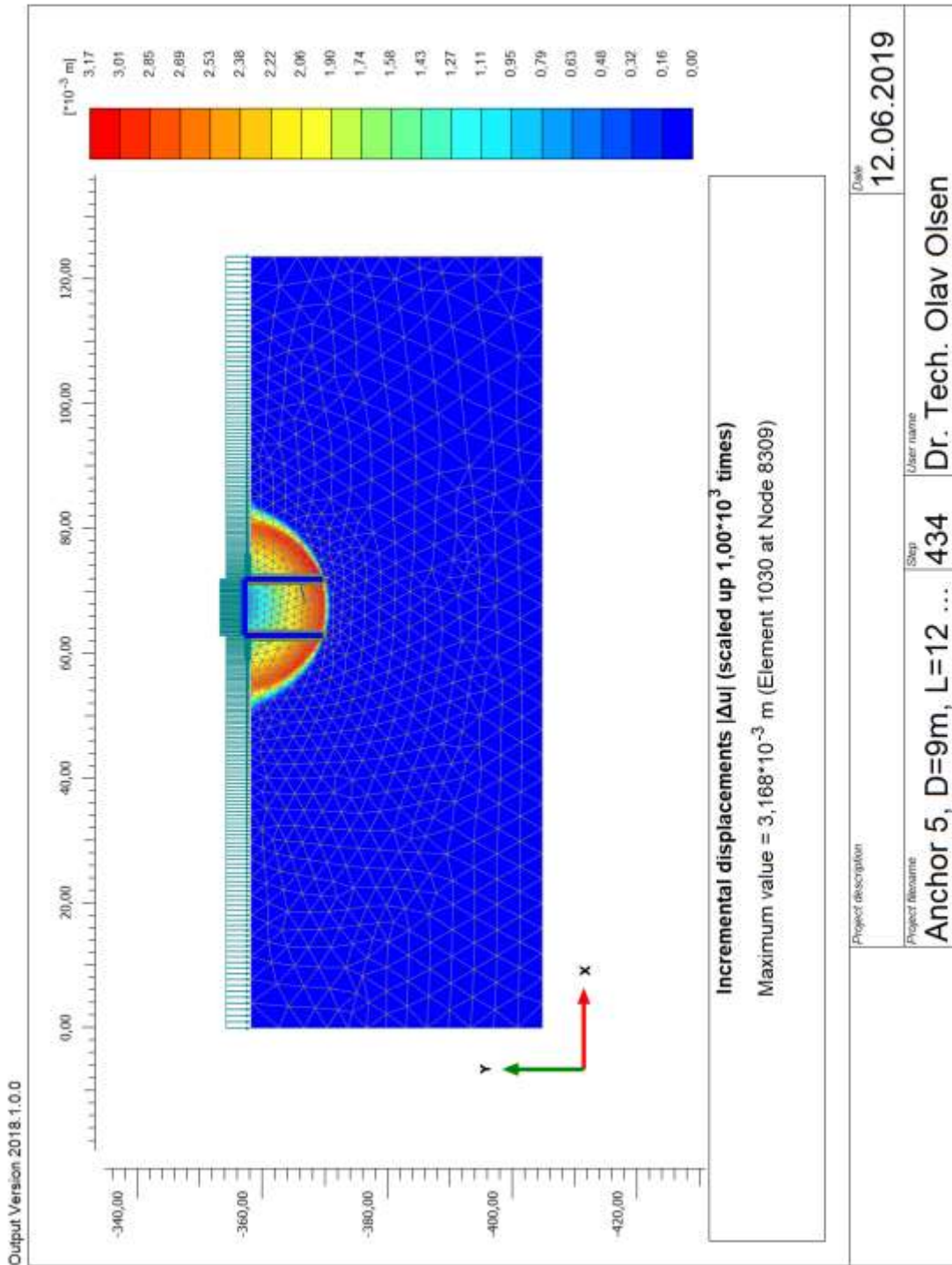
5.1.6 2/3 from skirt tip



5.1.7 1/2 from skirt tip

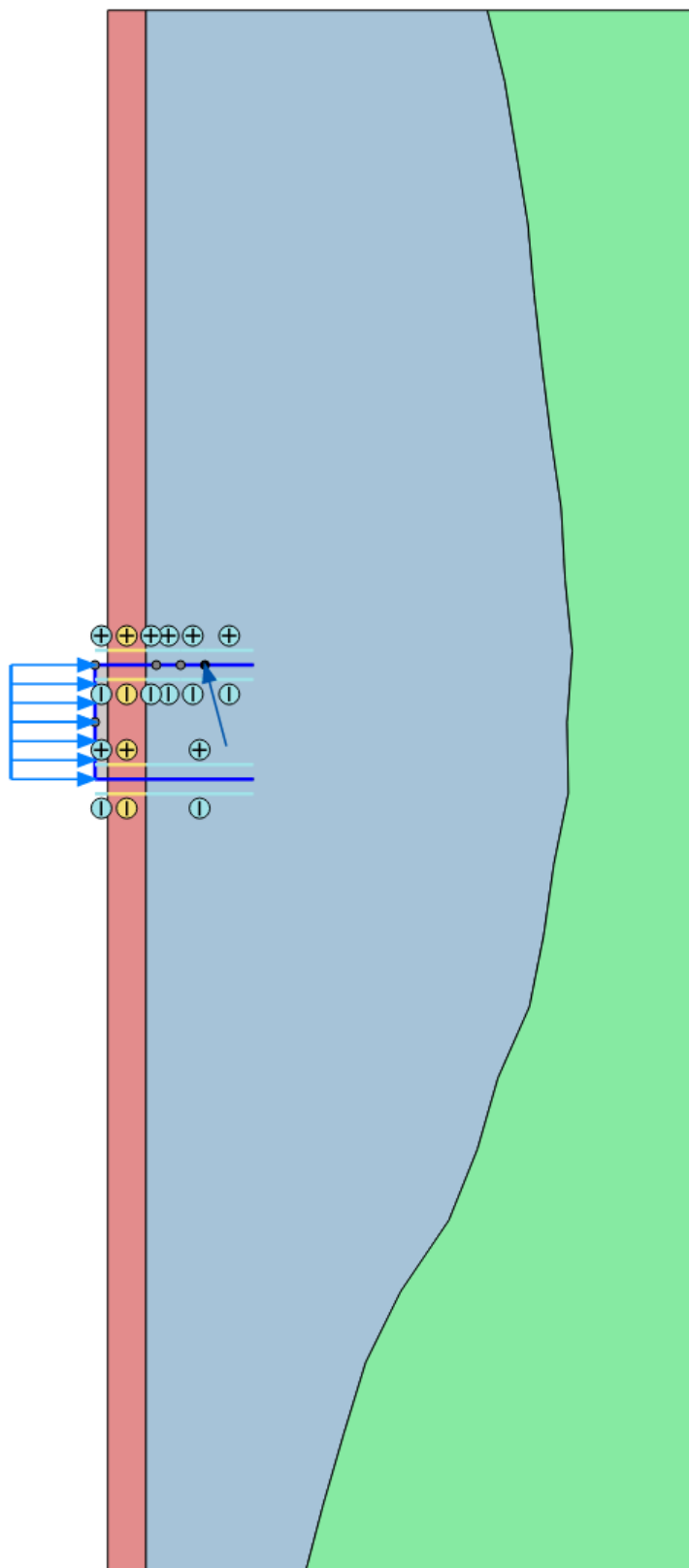


5.1.8 1/3 from skirt tip

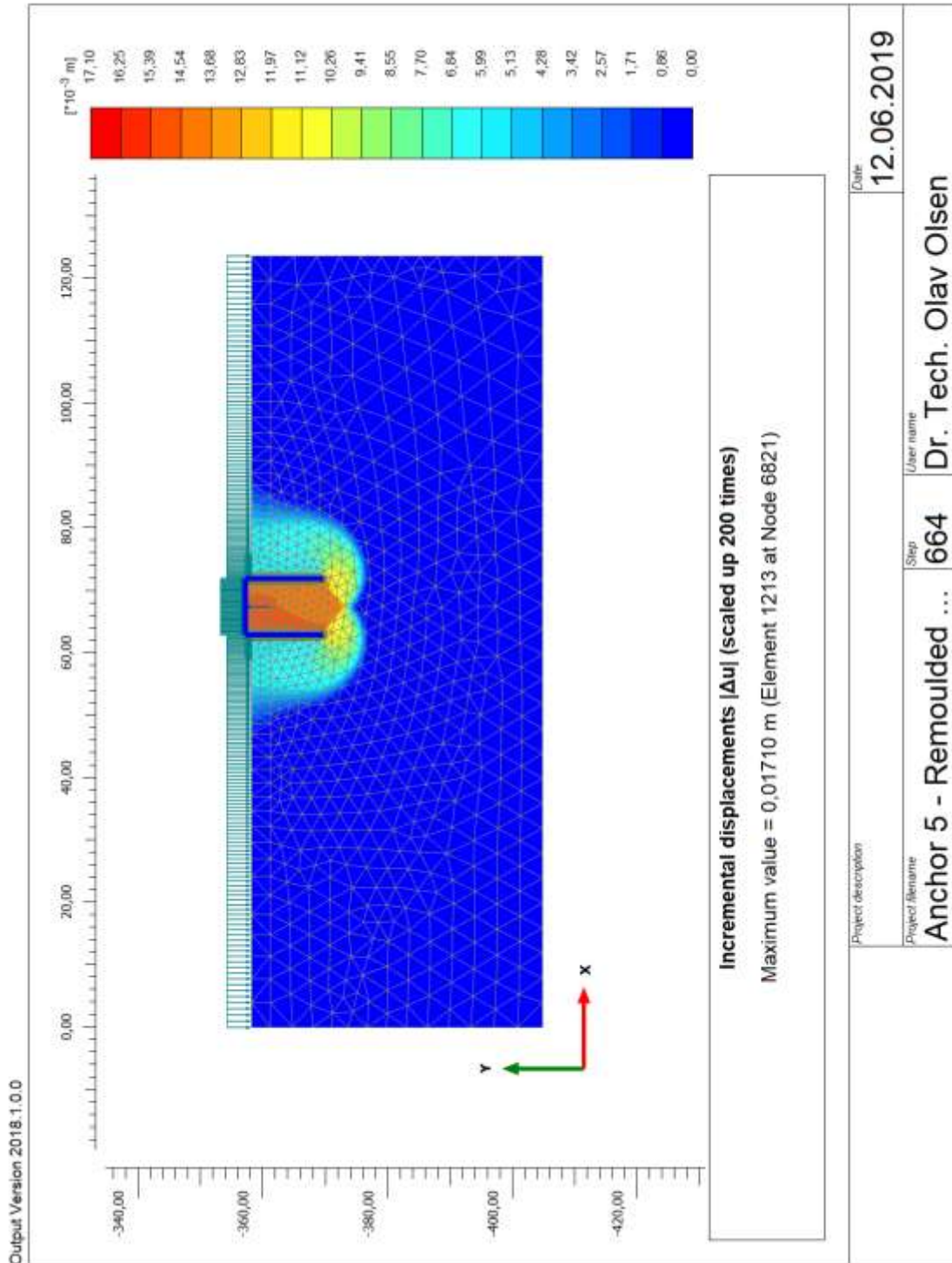


5.2 Top soil layer remoulded

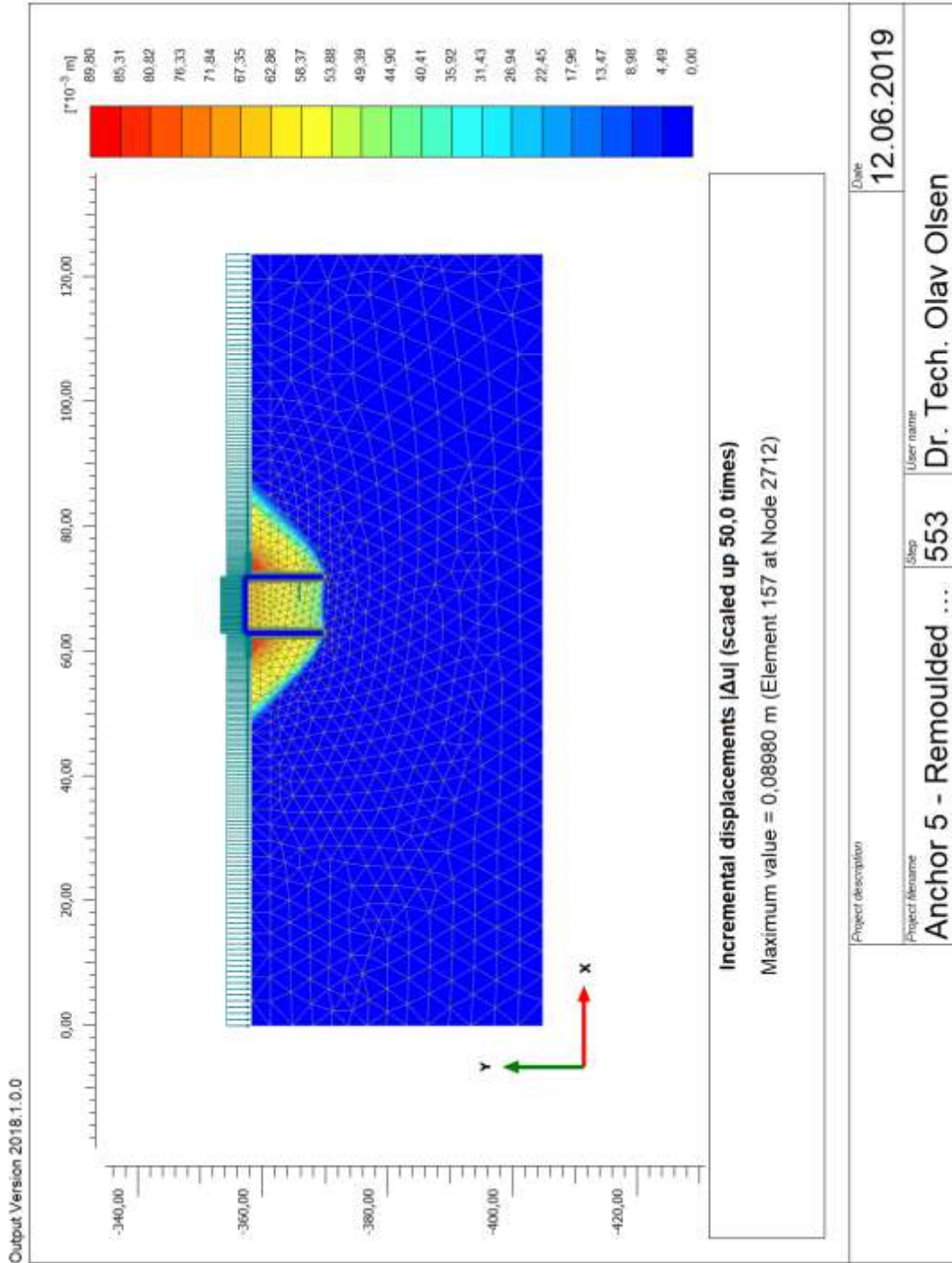
5.2.1 Model



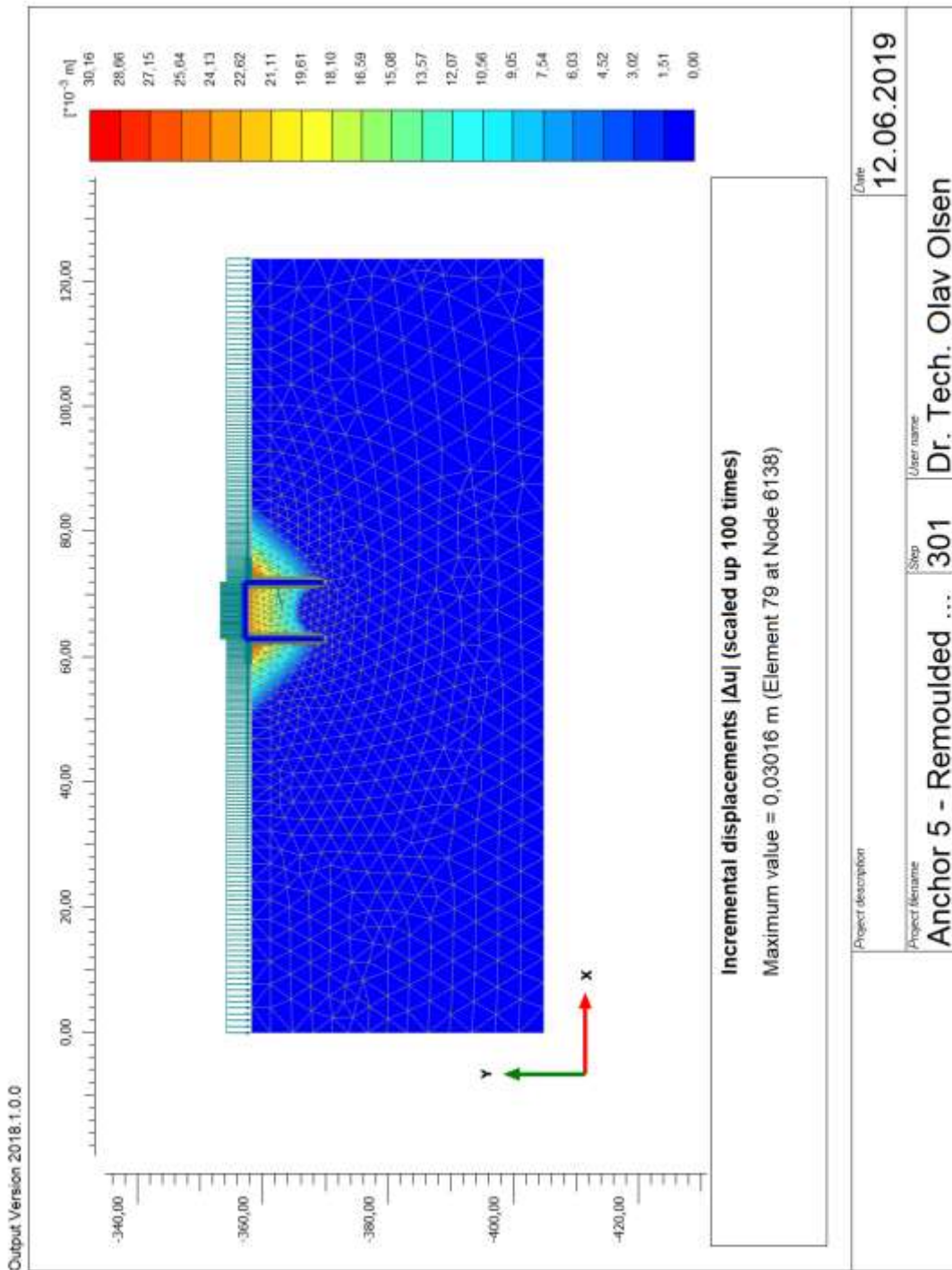
5.2.2 Vertical failure mode



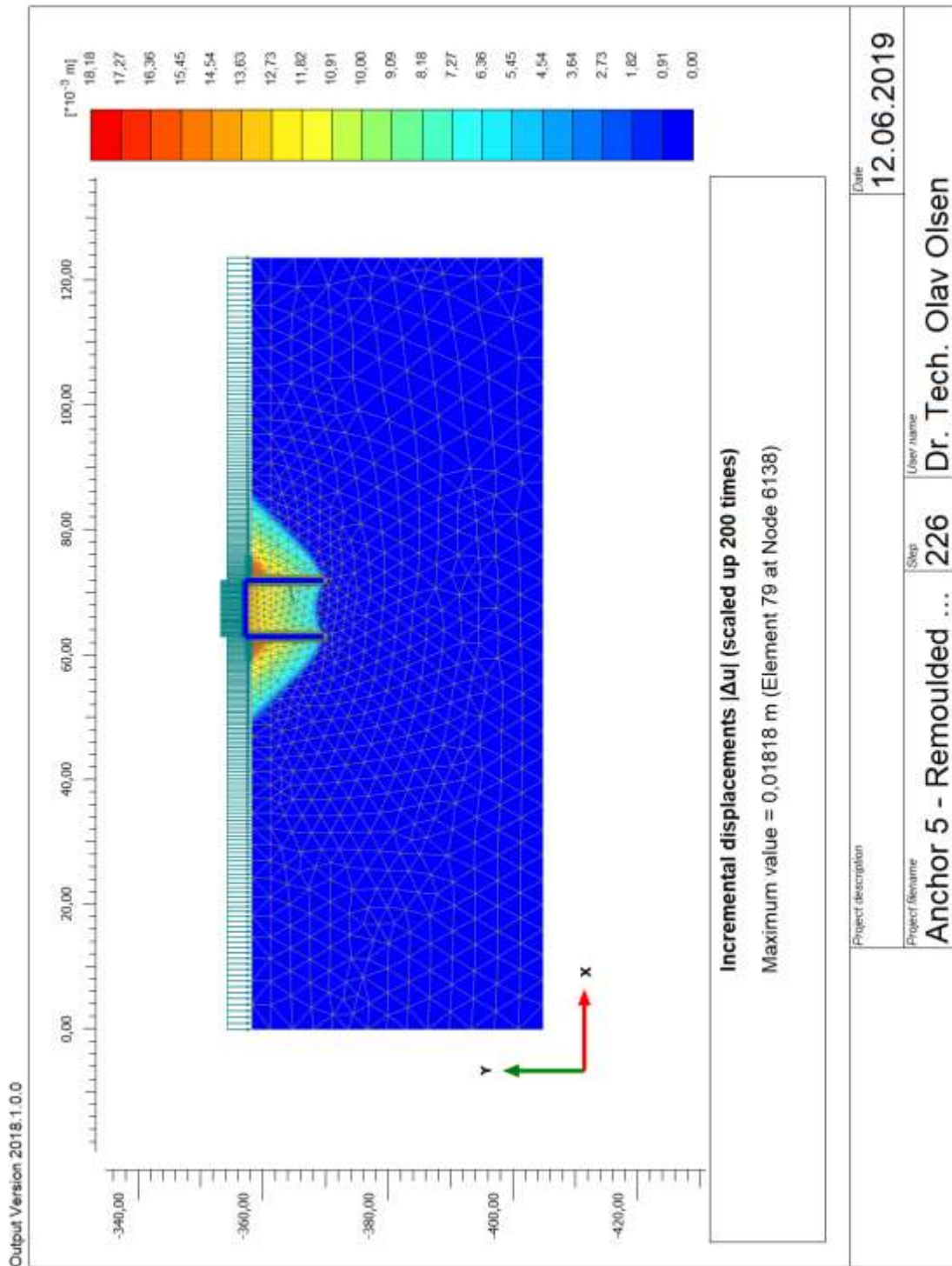
5.2.3 Horizontal failure mode



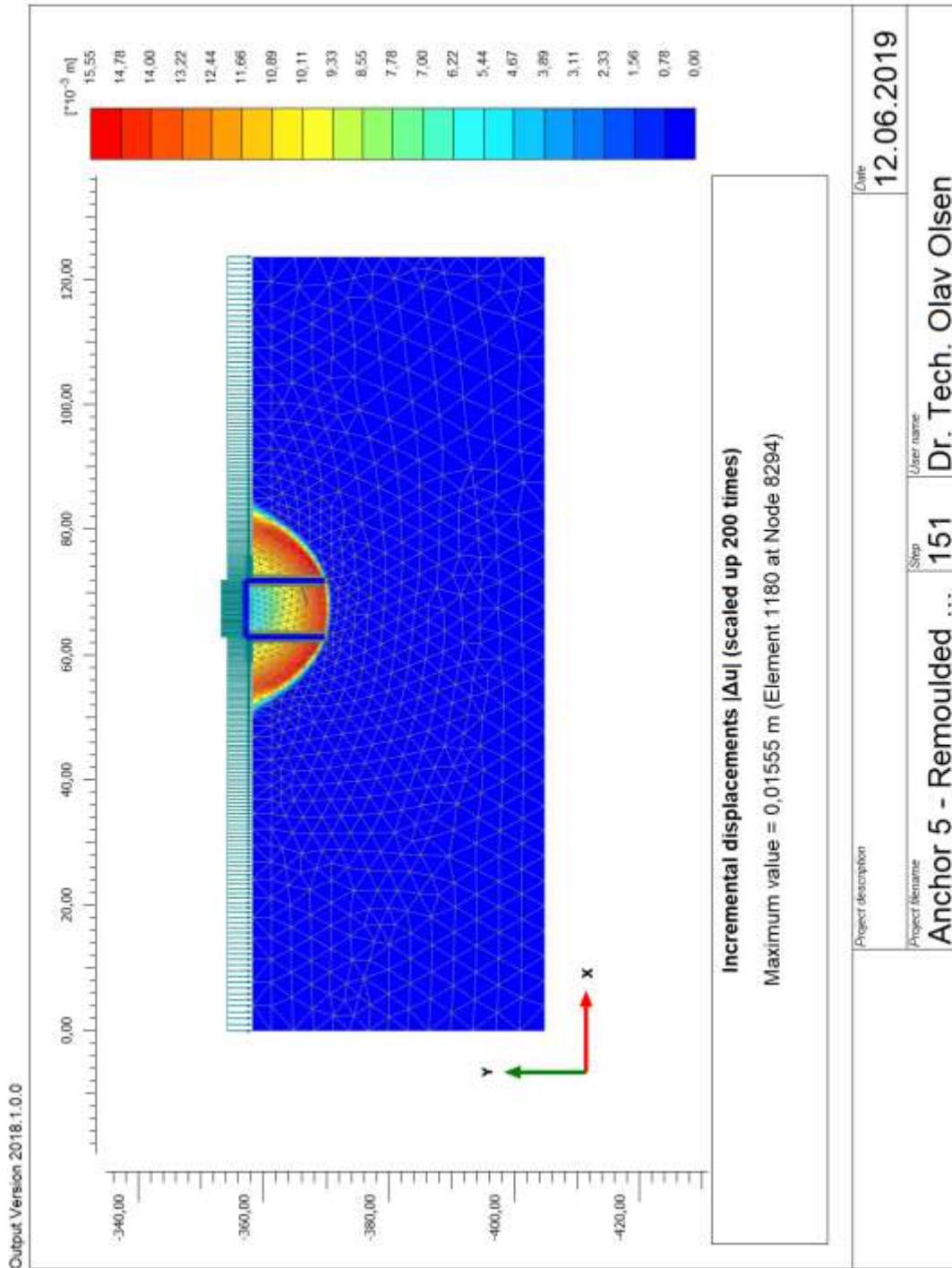
5.2.4 2/3 from skirt tip



5.2.5 1/2 from skirt tip



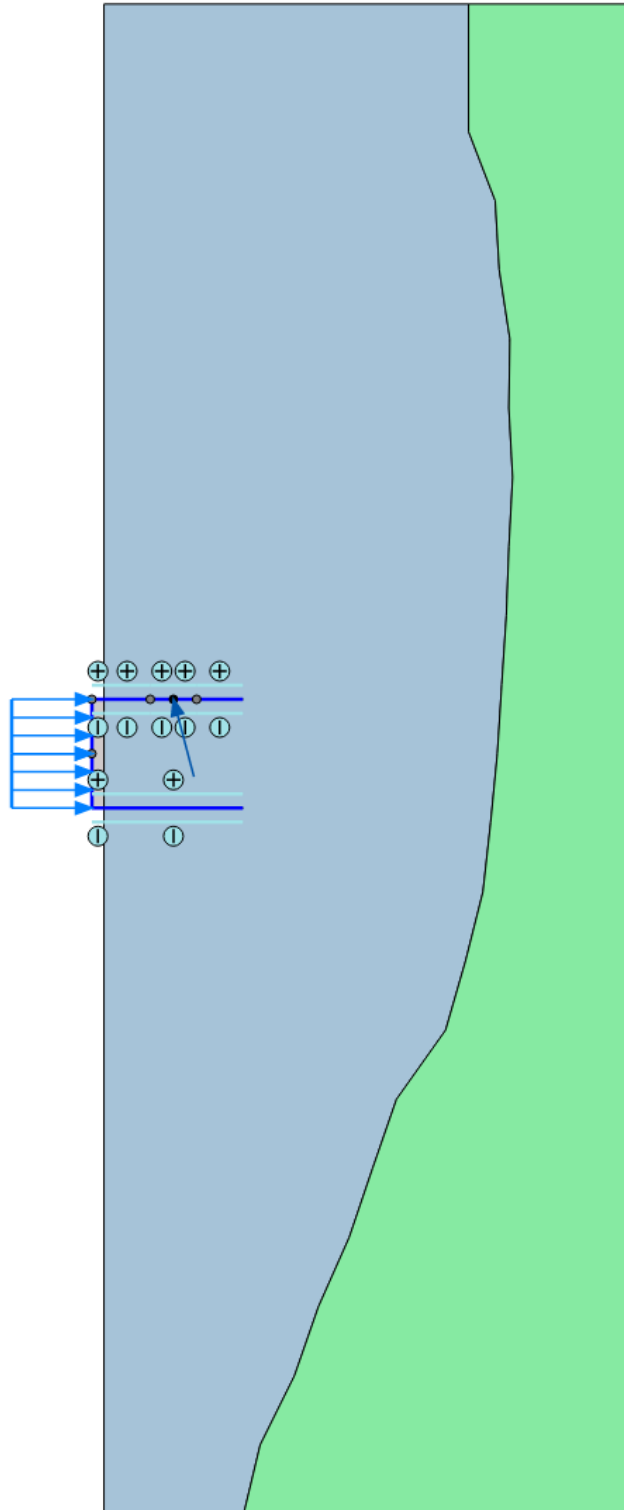
5.2.6 1/3 from skirt tip



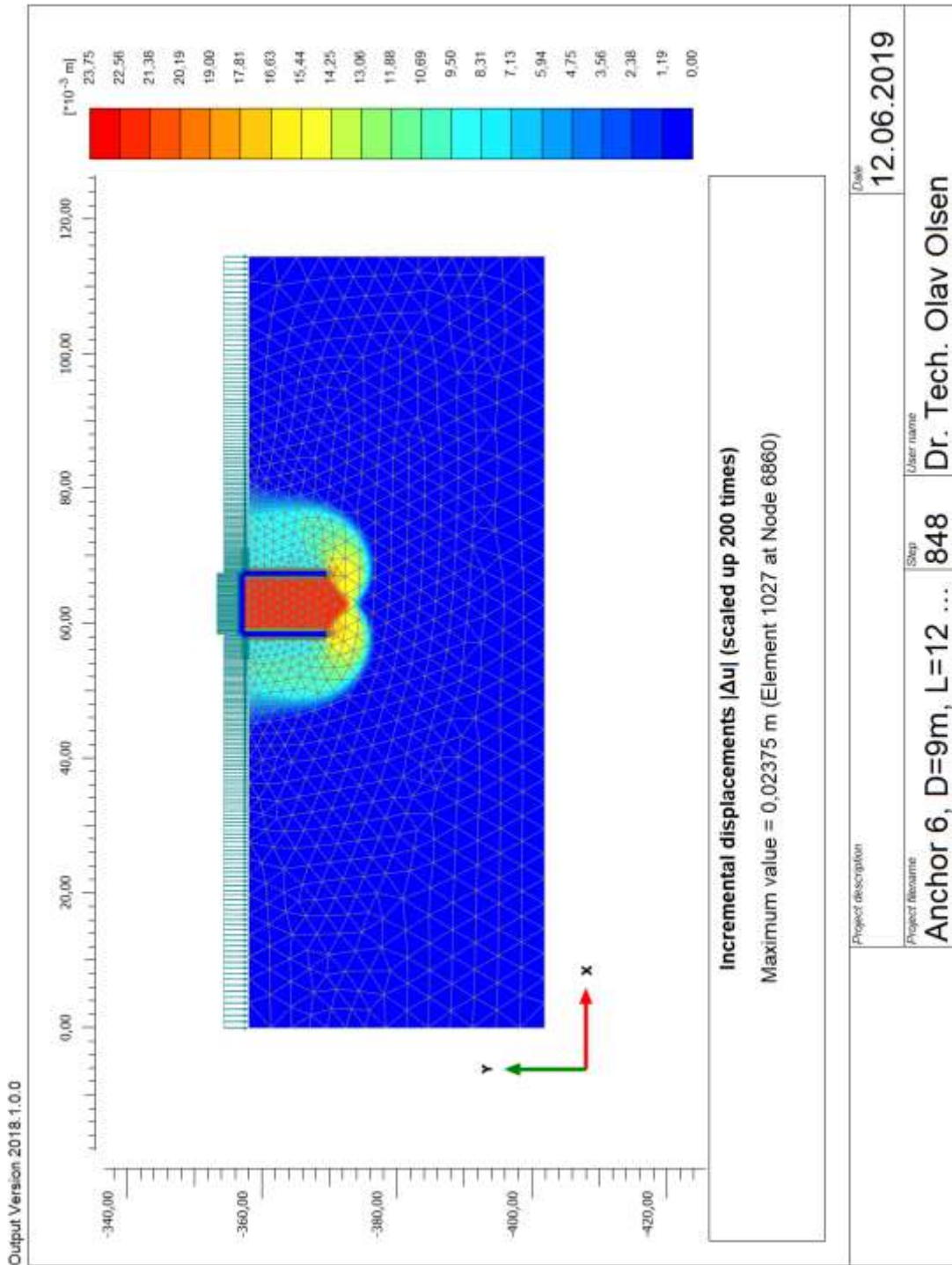
6 ANCHOR PROFILE 6

6.1 Intact soil

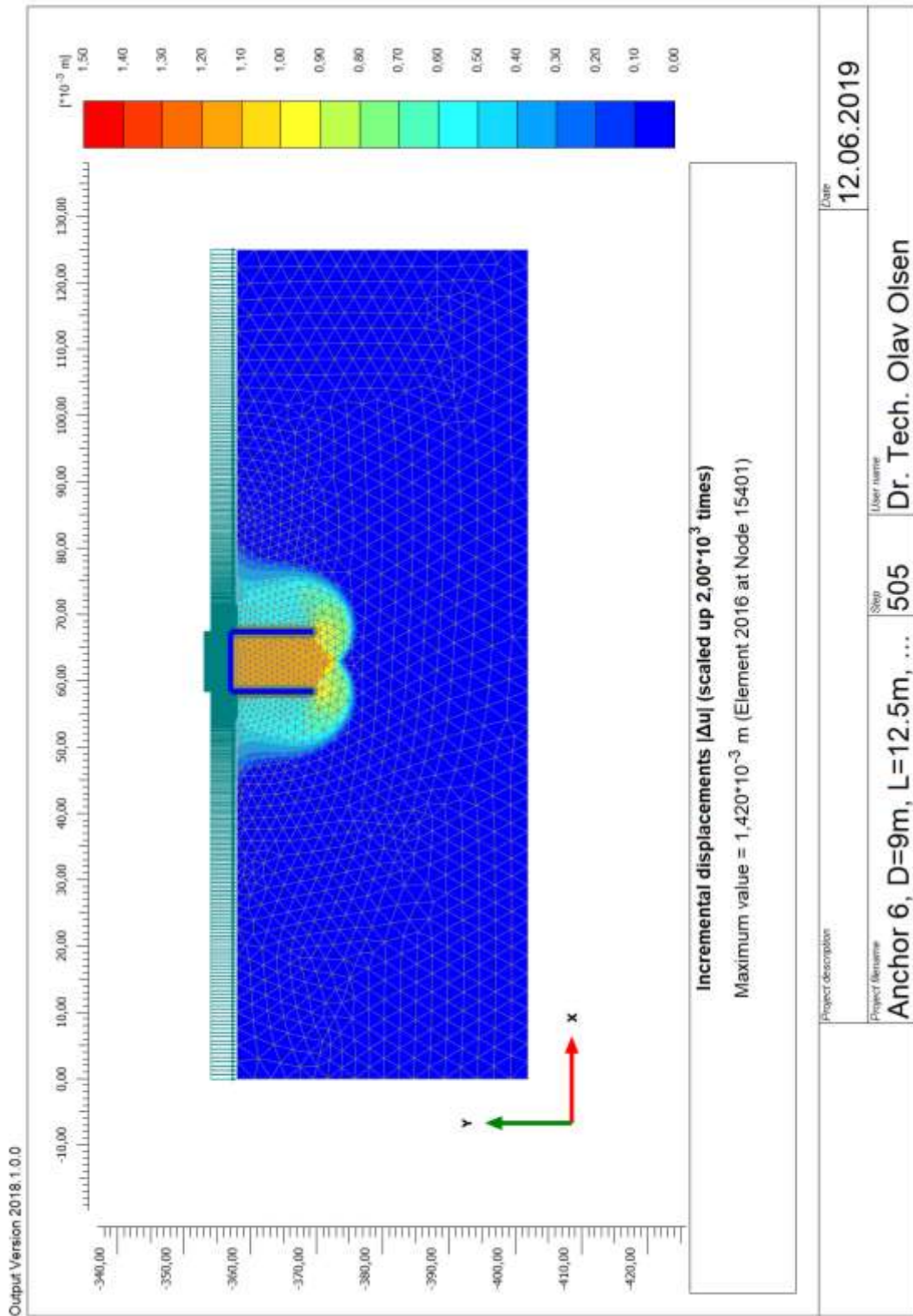
6.1.1 Model



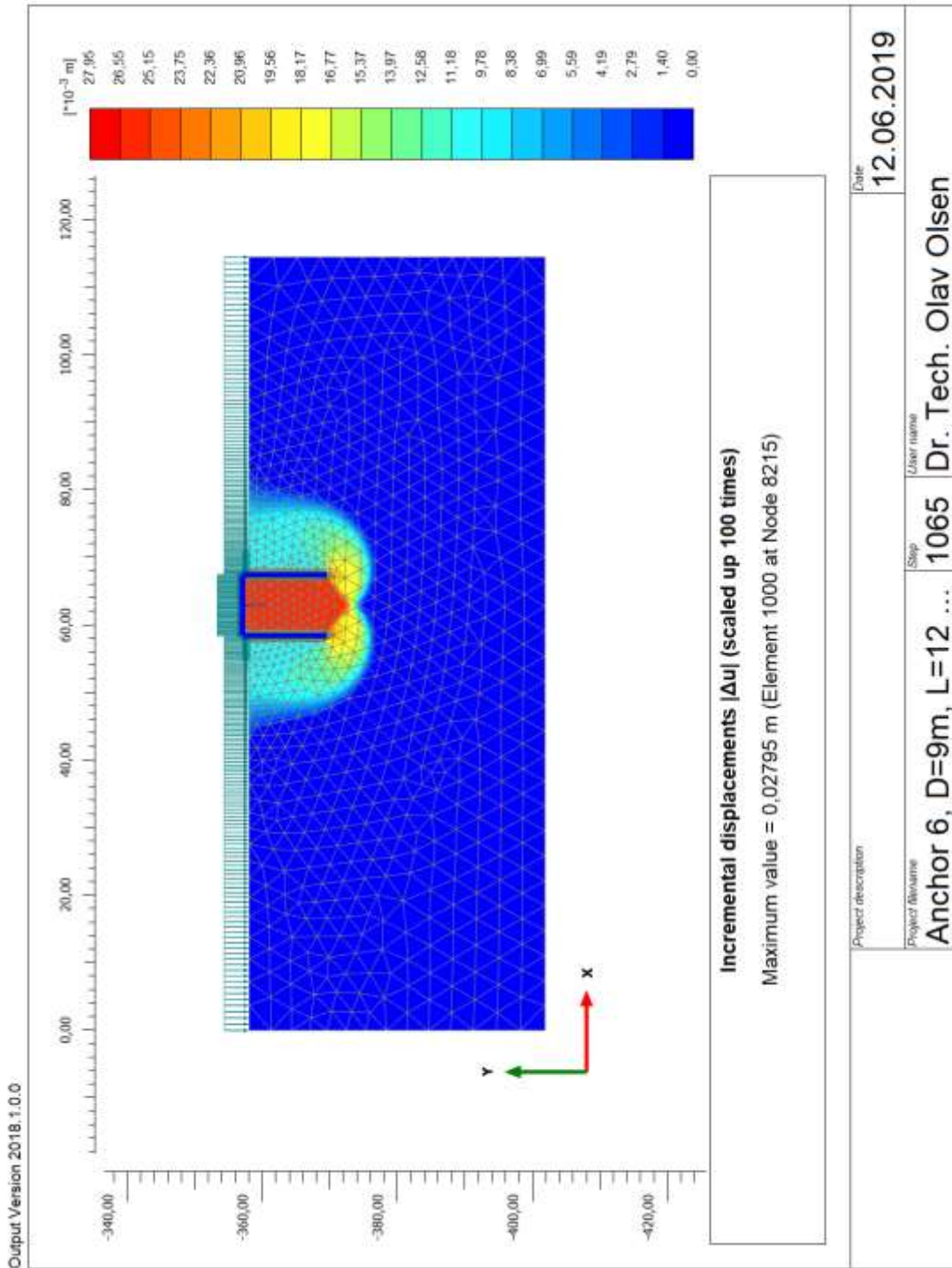
6.1.2 Undrained local slope stability



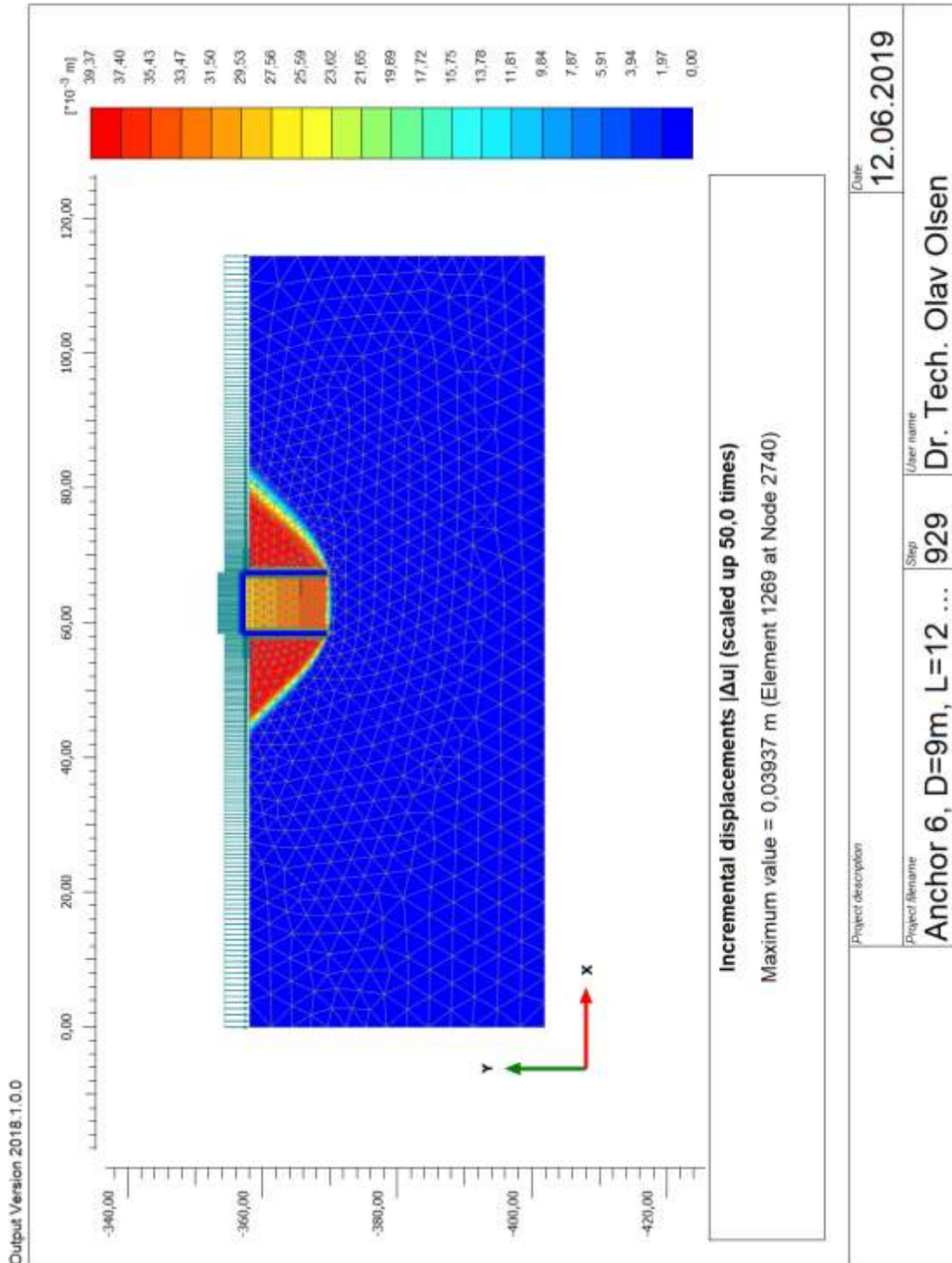
6.1.3 Drained local slope stability



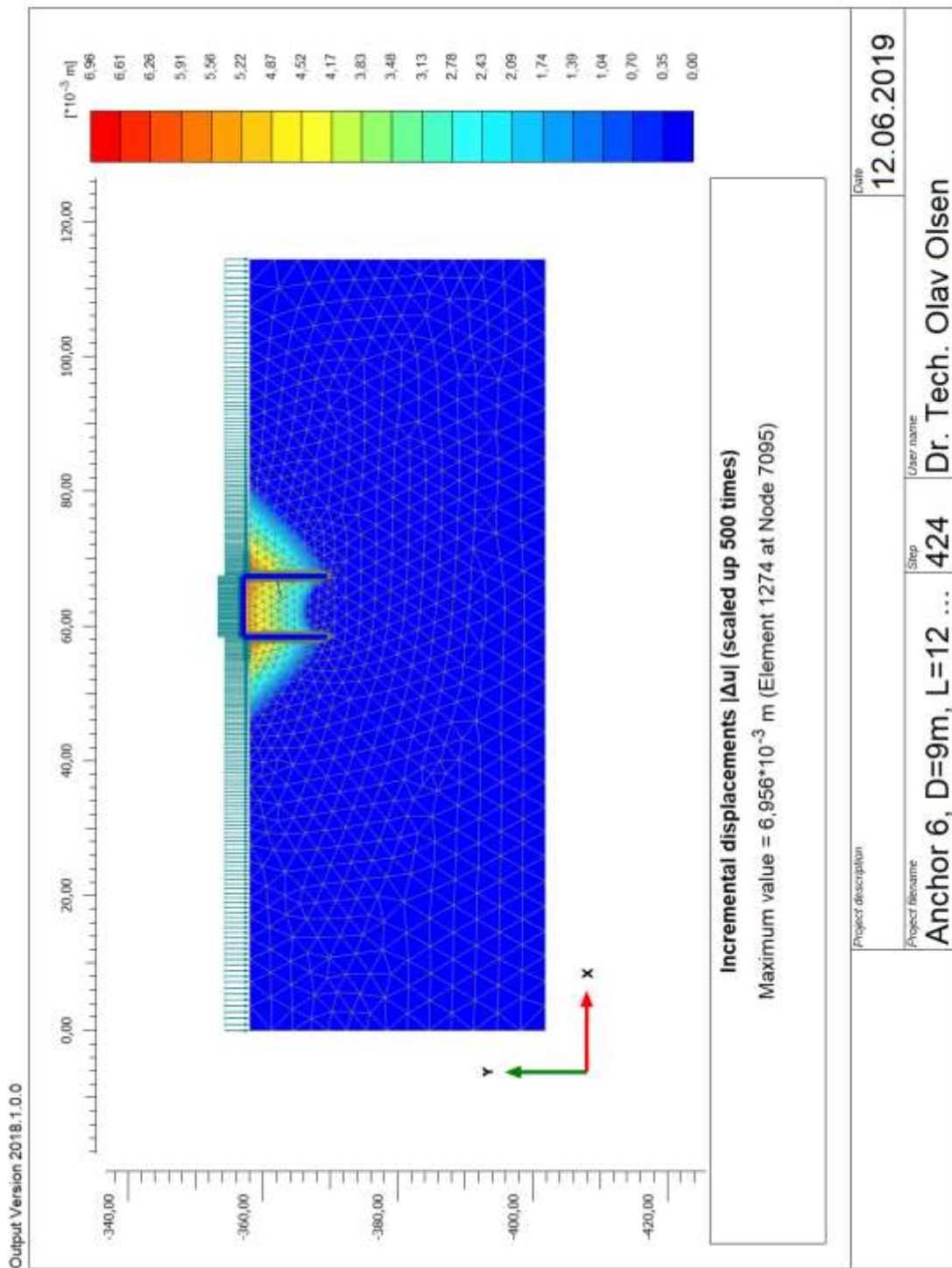
6.1.4 Vertical failure mode



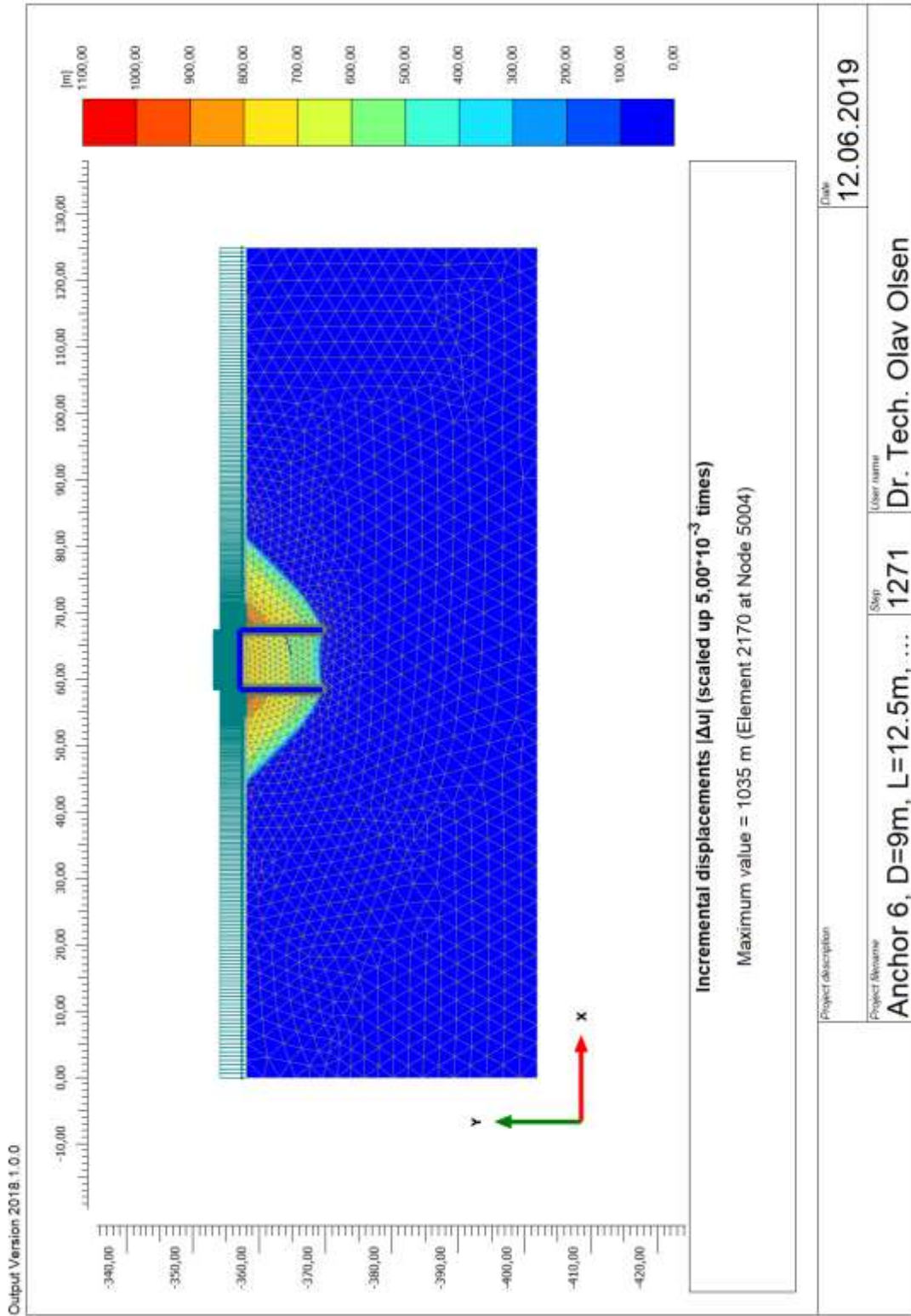
6.1.5 Horizontal failure mode



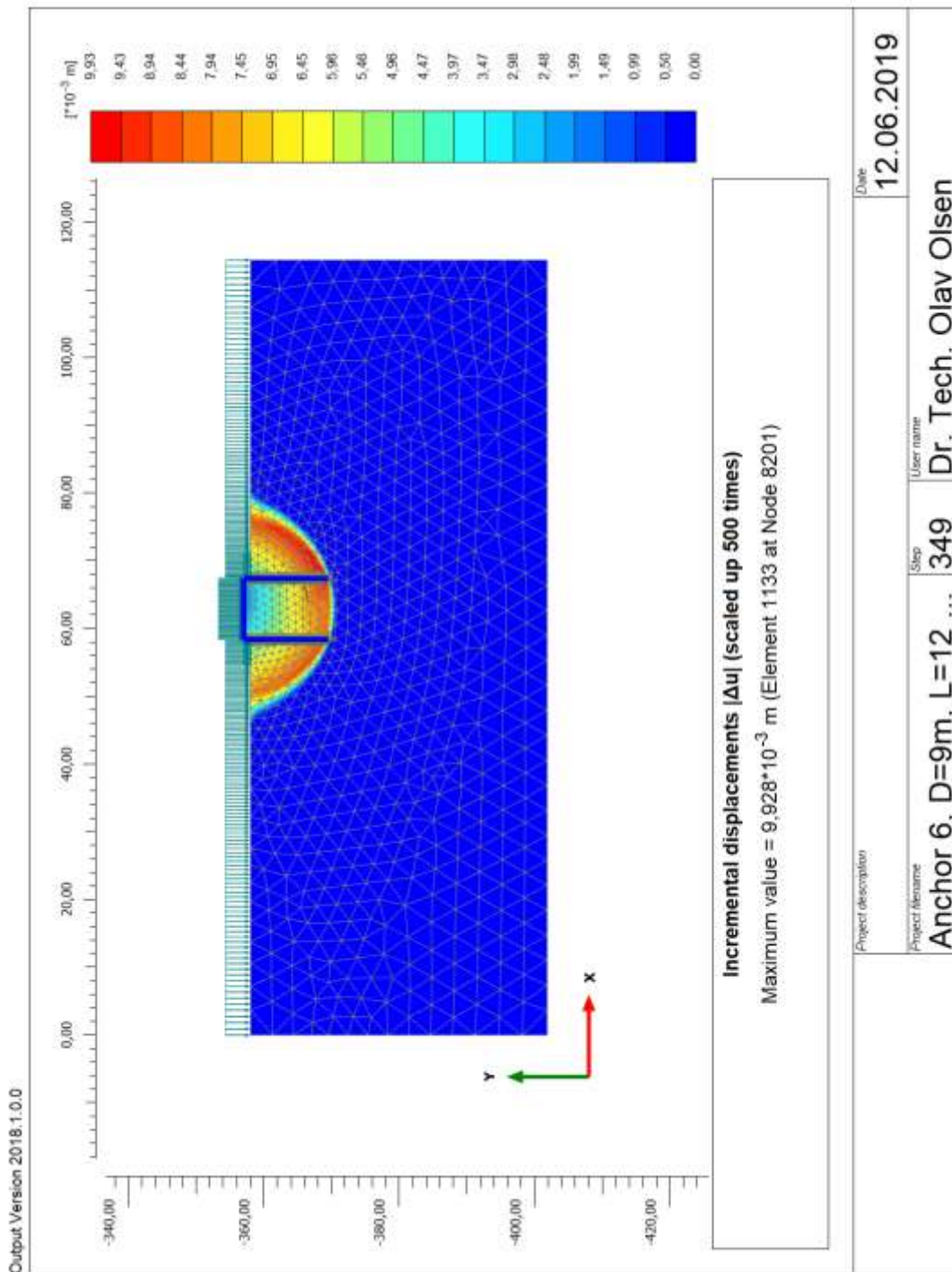
6.1.6 2/3 from skirt tip



6.1.7 1/2 from skirt tip

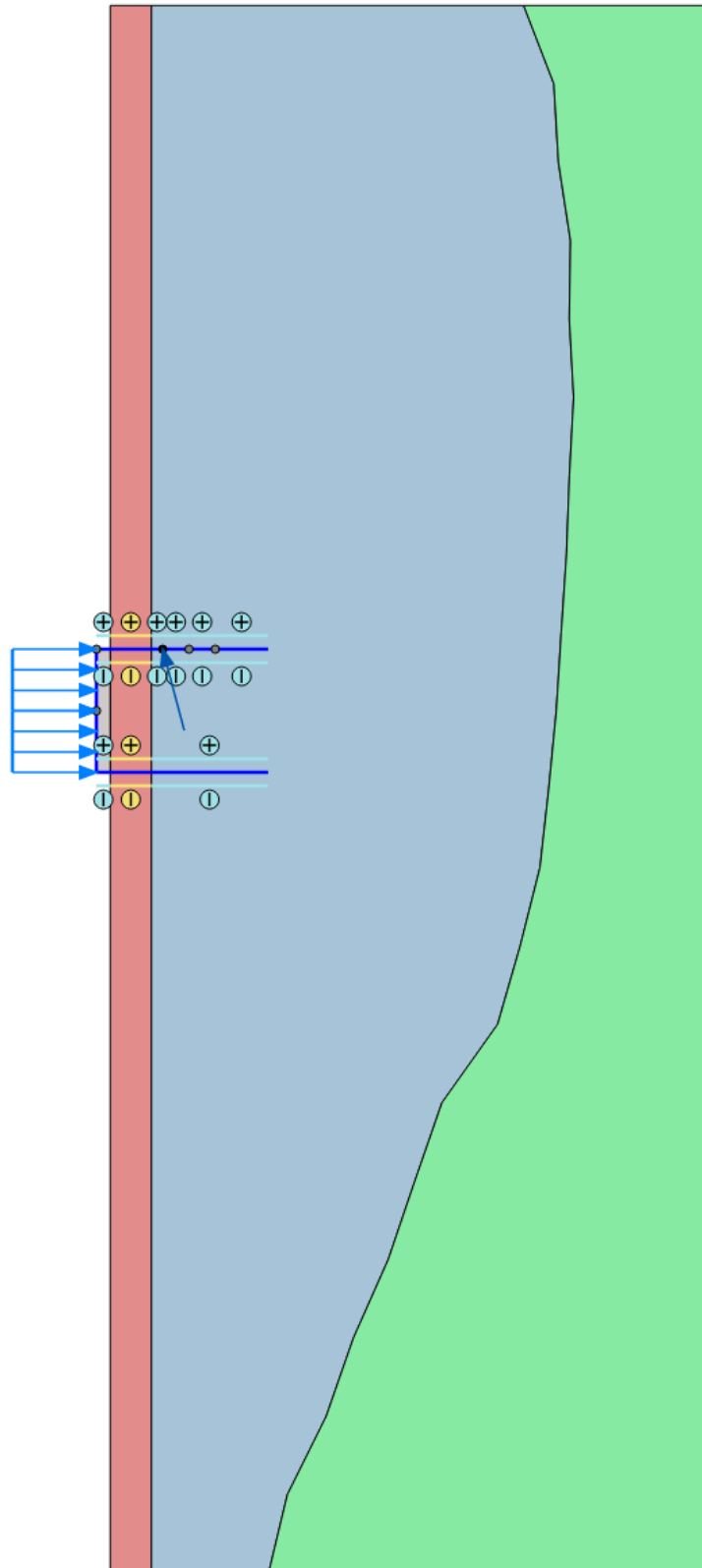


6.1.8 1/3 from skirt tip

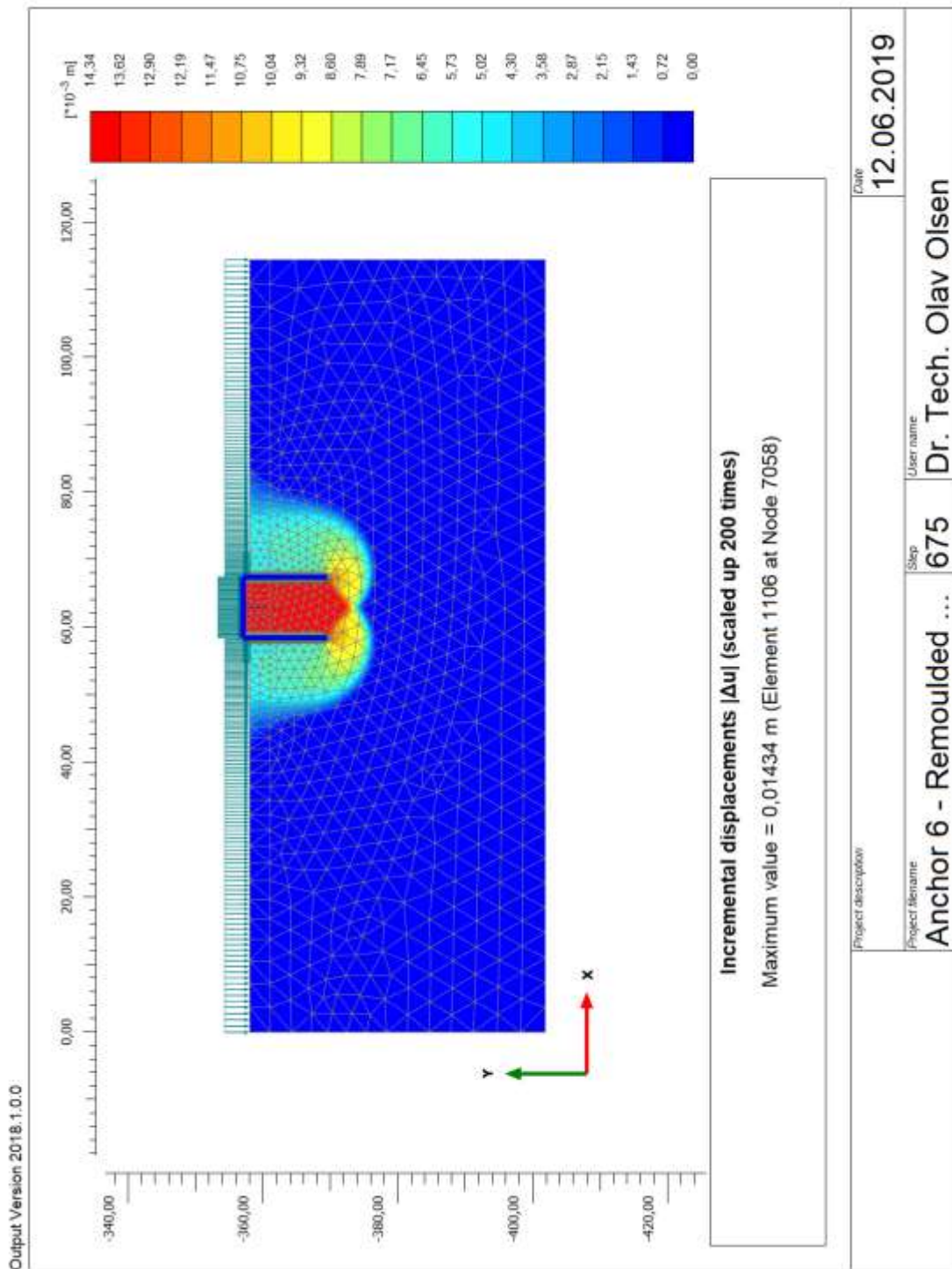


6.2 Top soil layer remoulded

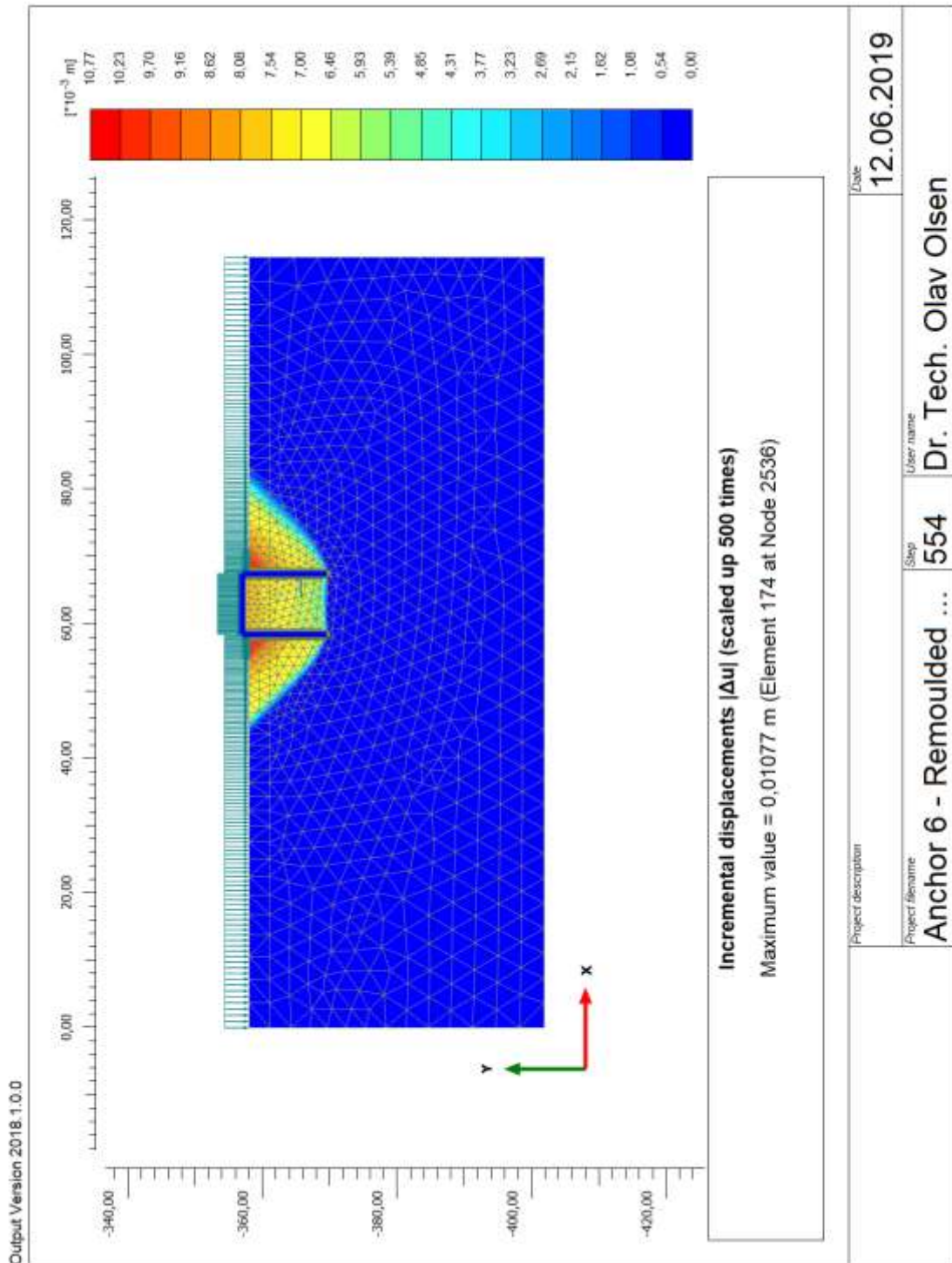
6.2.1 Model



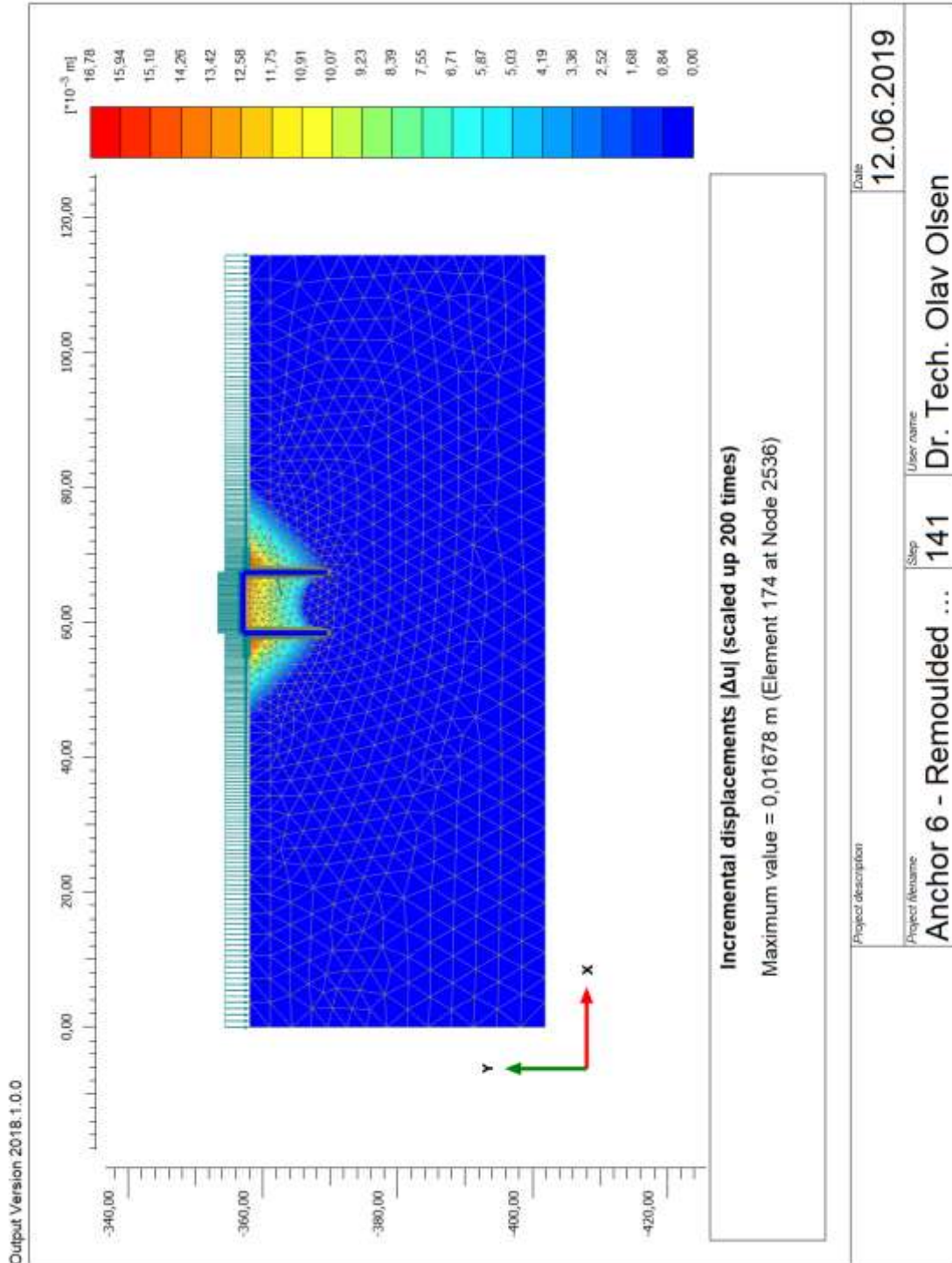
6.2.2 Vertical failure mode



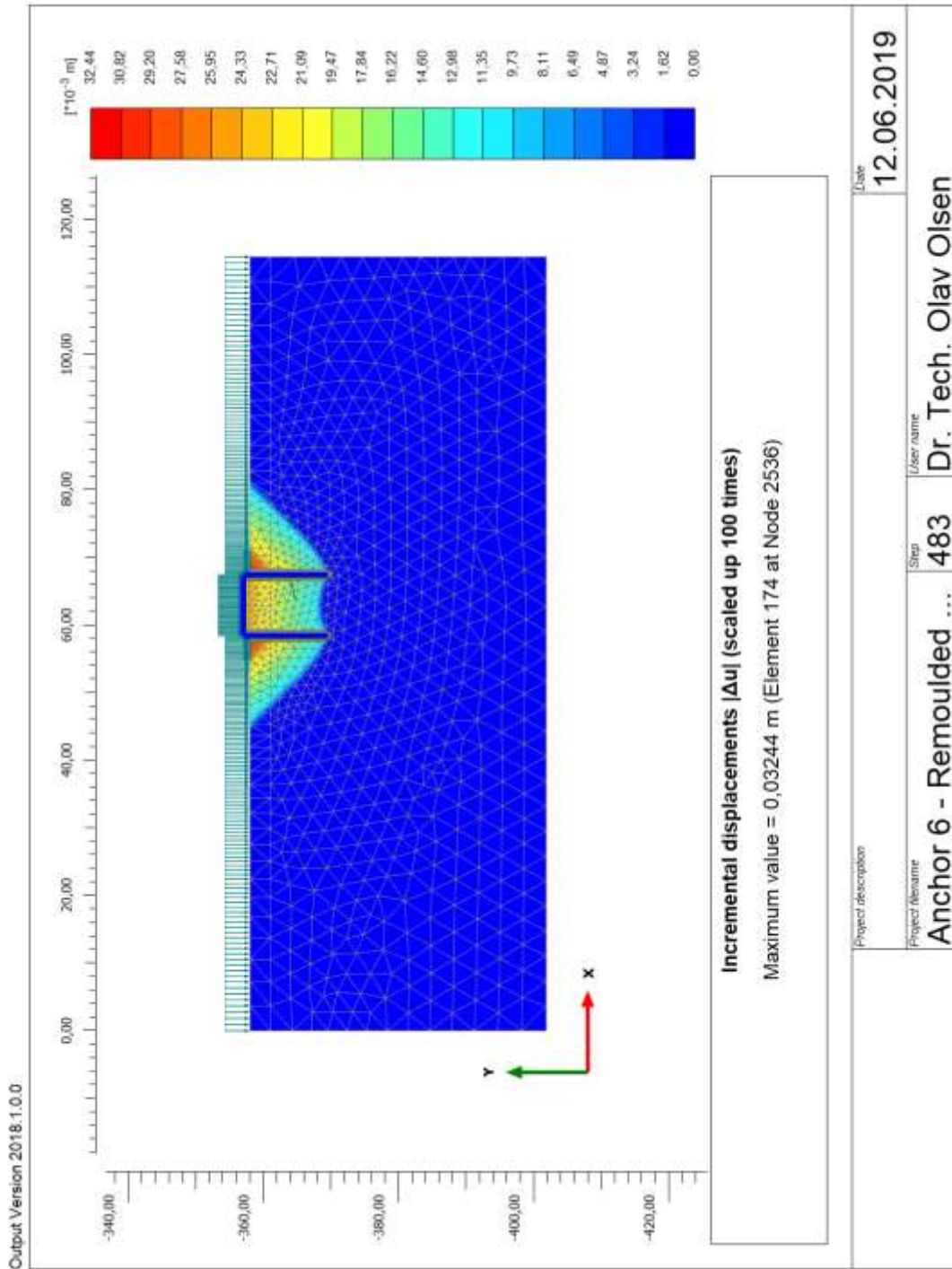
6.2.3 Horizontal failure mode



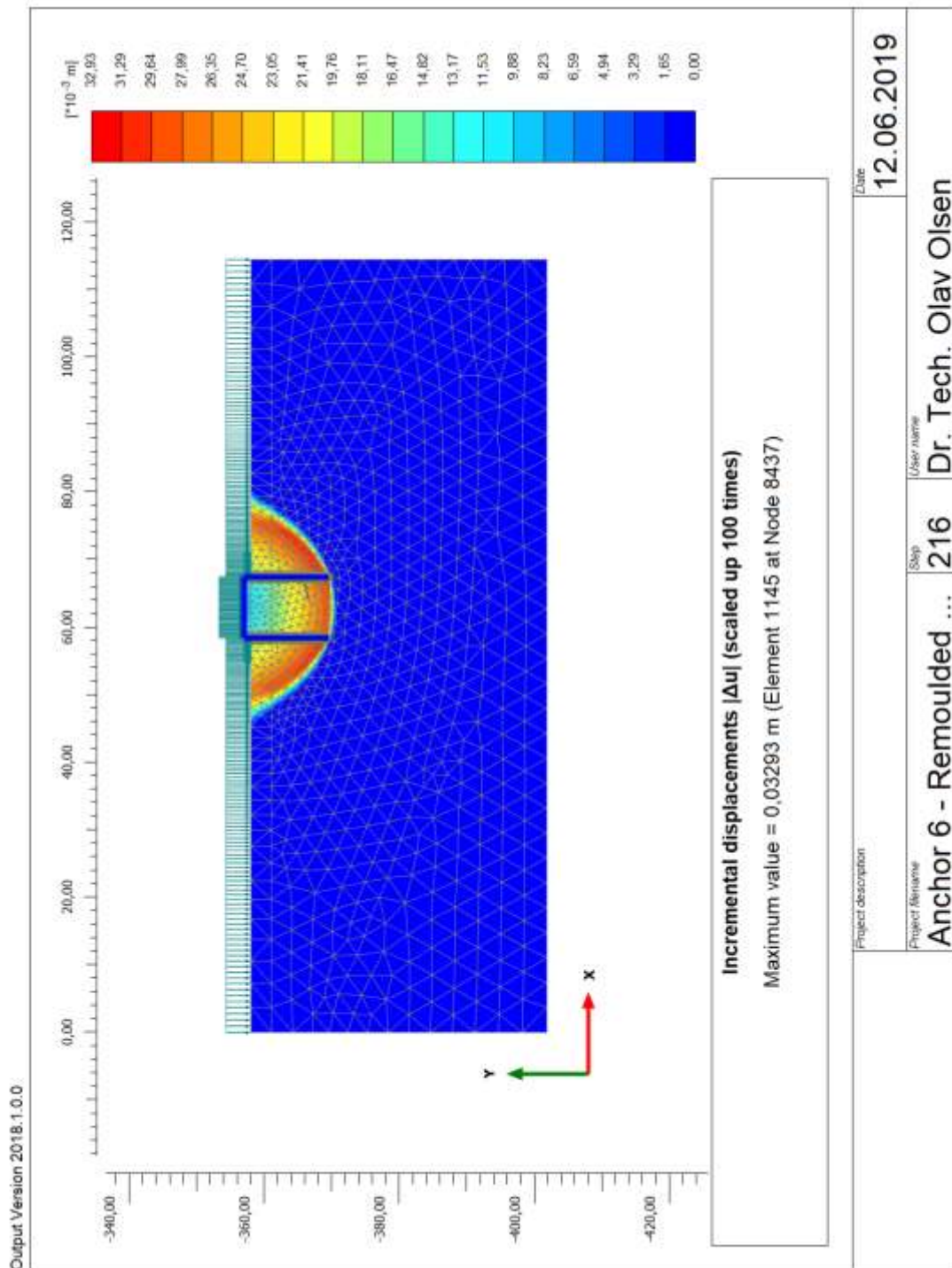
6.2.4 2/3 from skirt tip



6.2.5 1/2 from skirt tip



6.2.6 1/3 from skirt tip

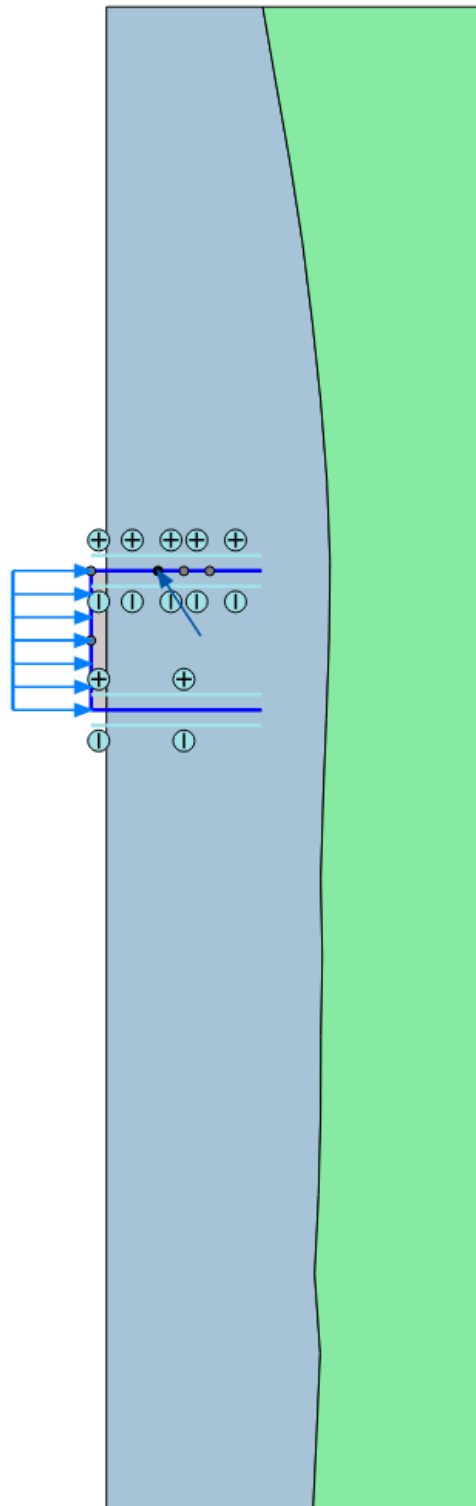


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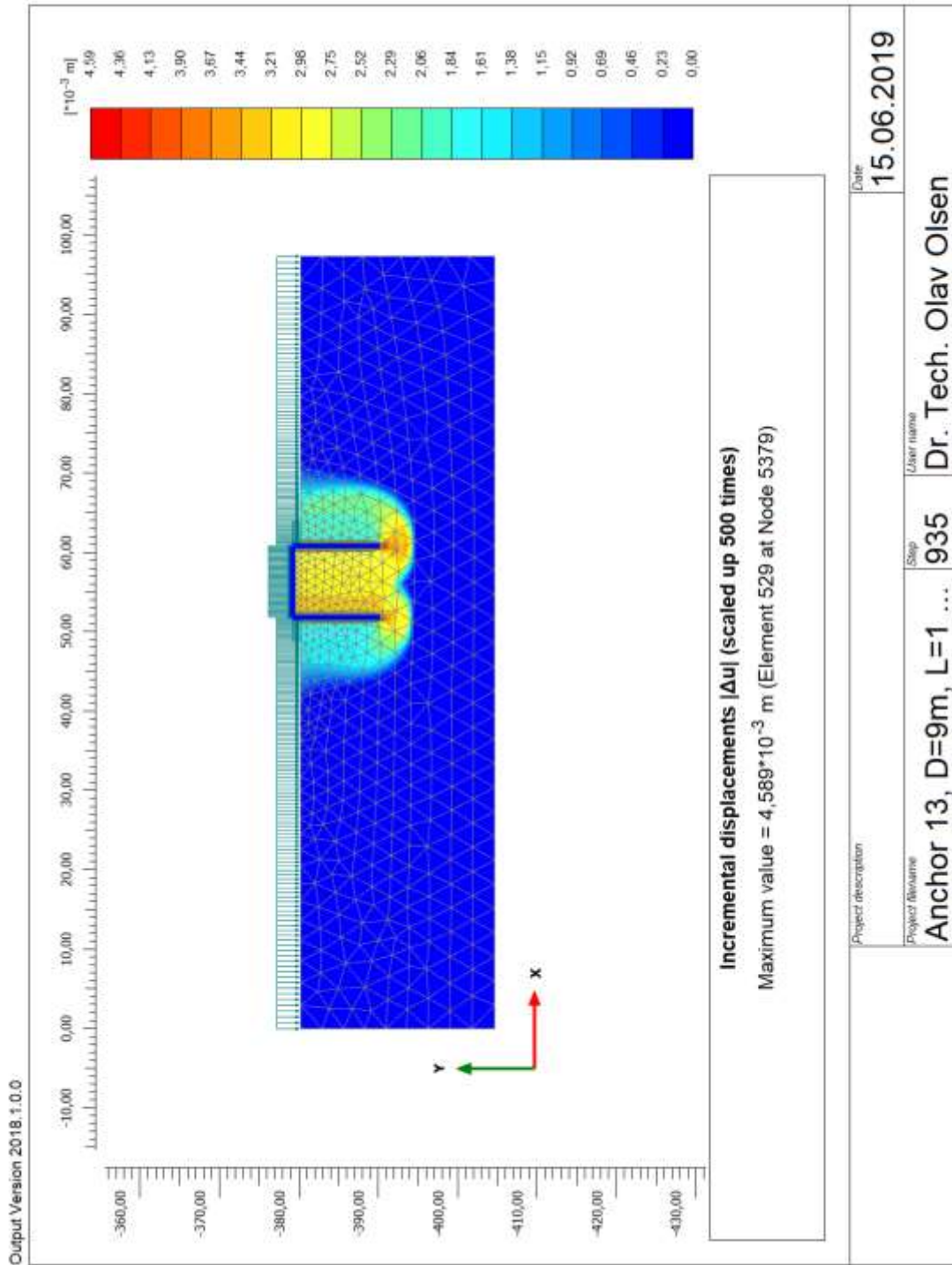
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7.1 Intact soil

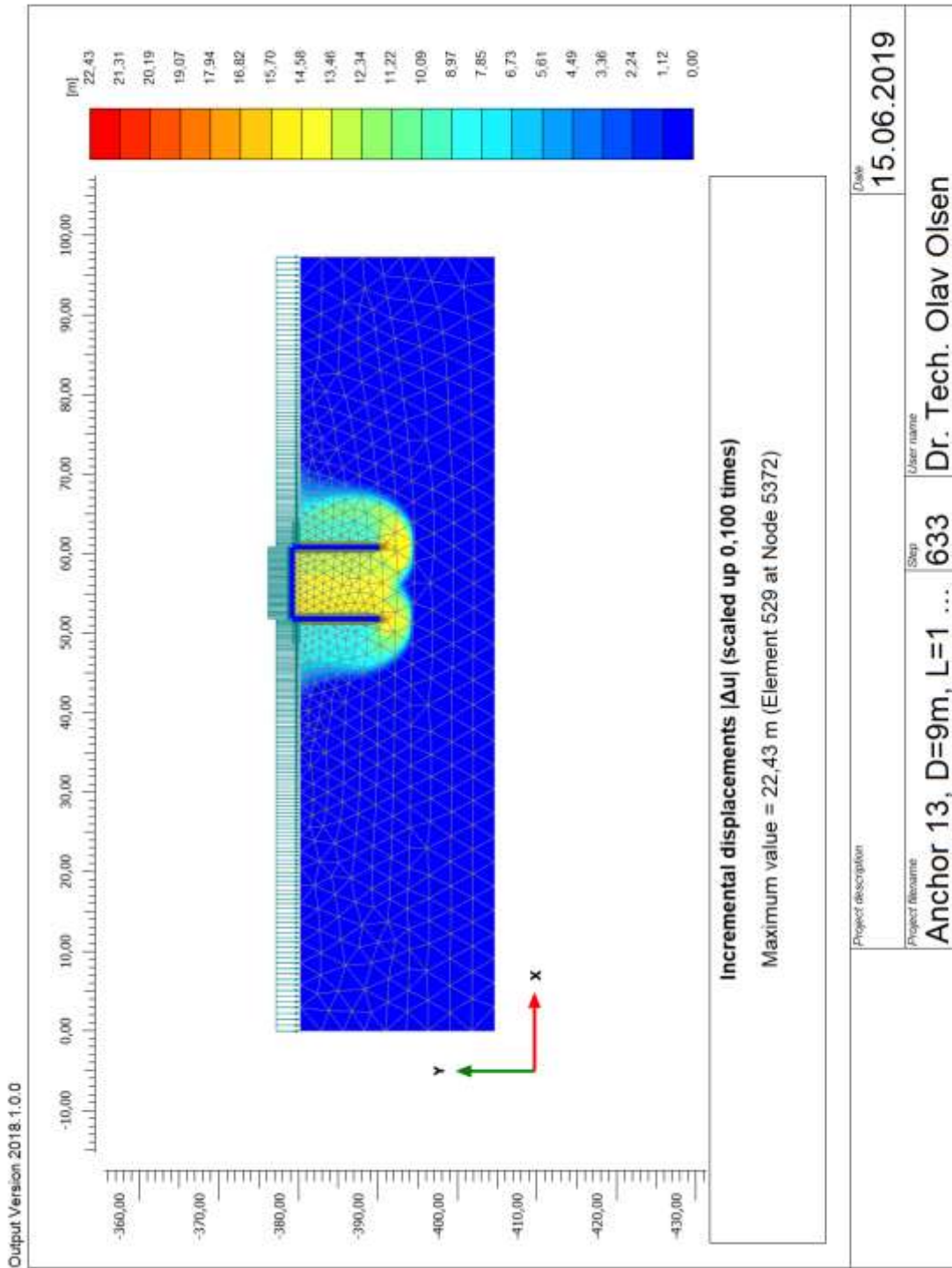
7.1.1 Model



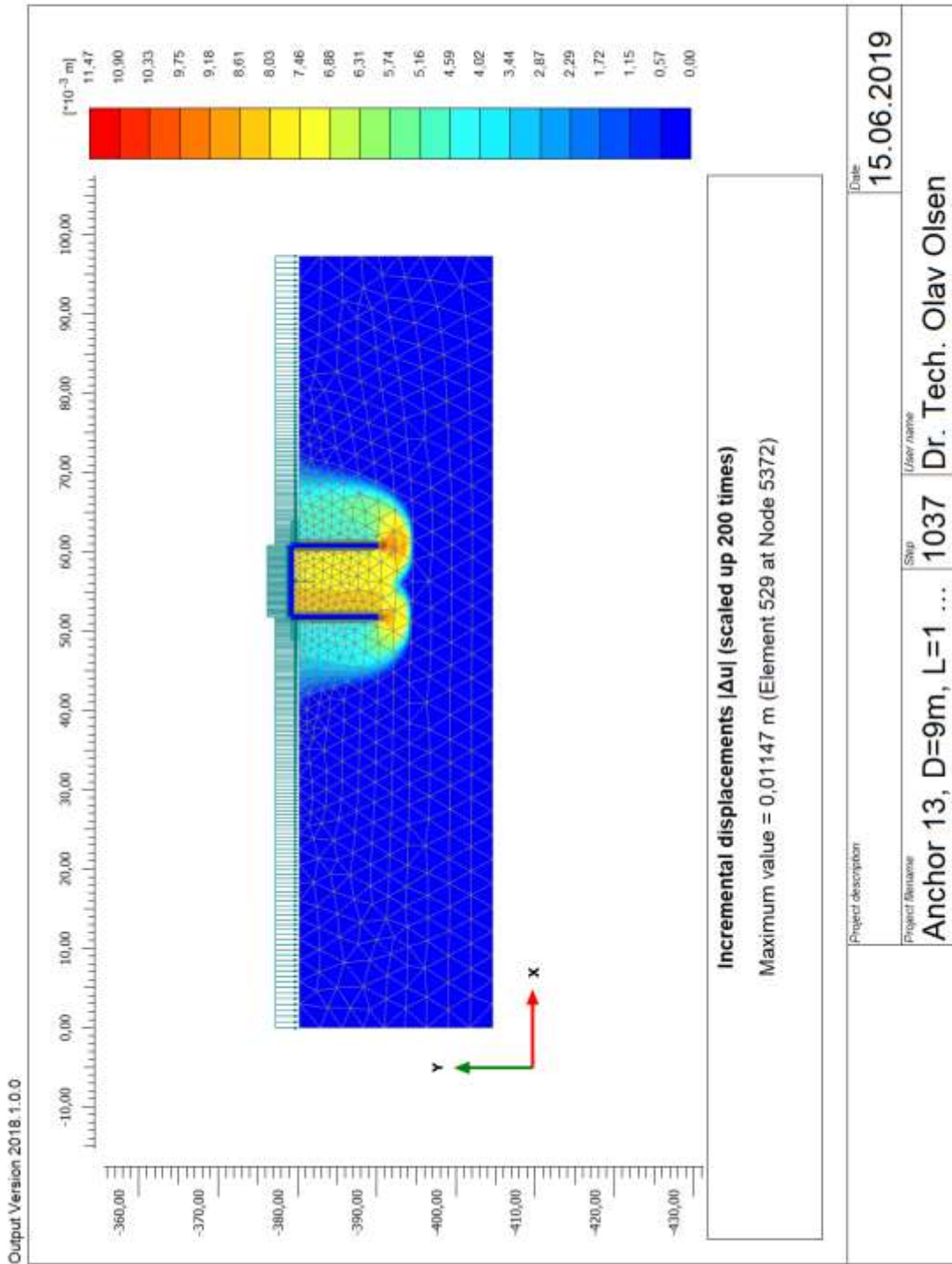
7.1.2 Undrained local slope stability



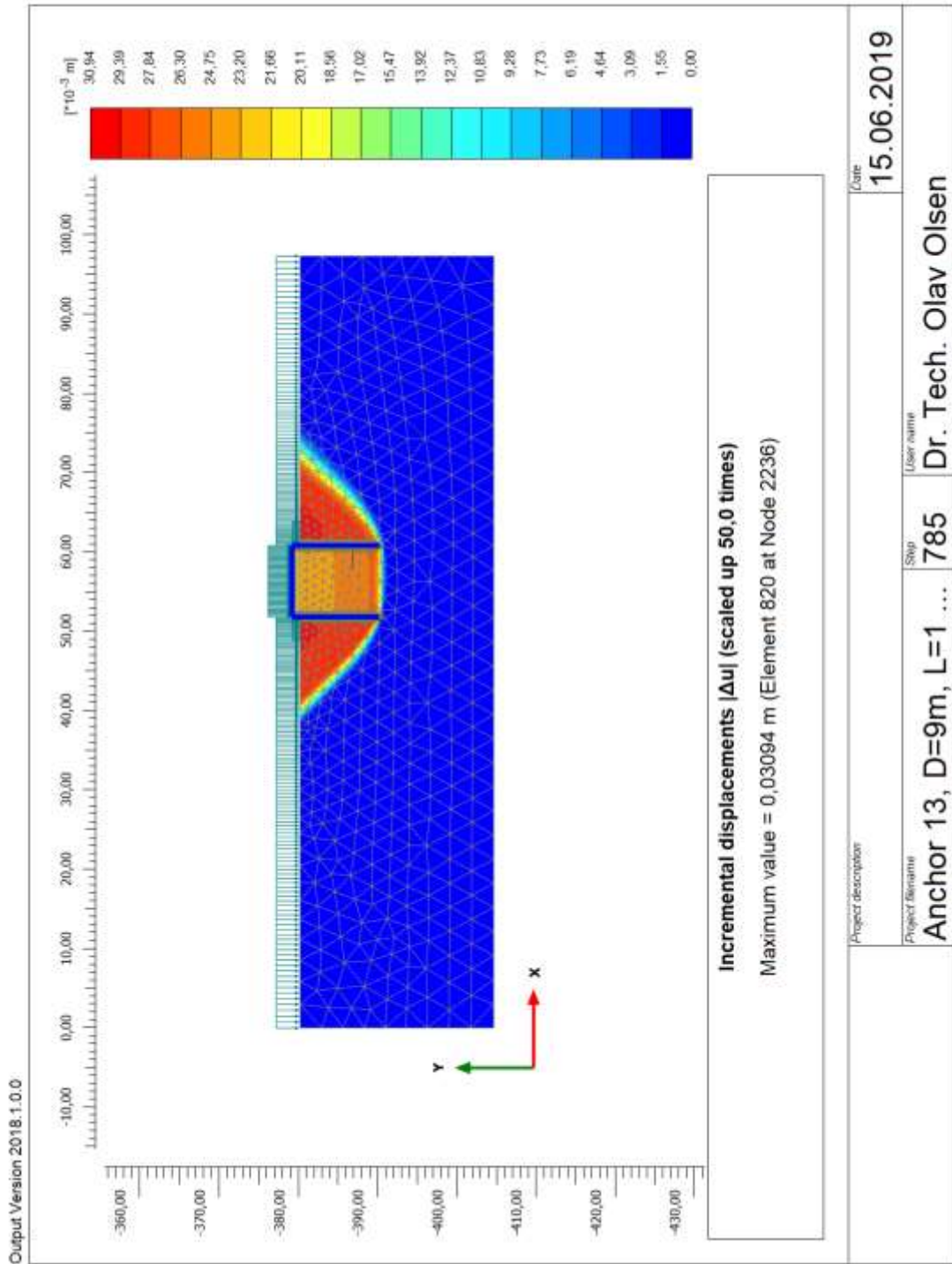
7.1.3 Drained local slope stability



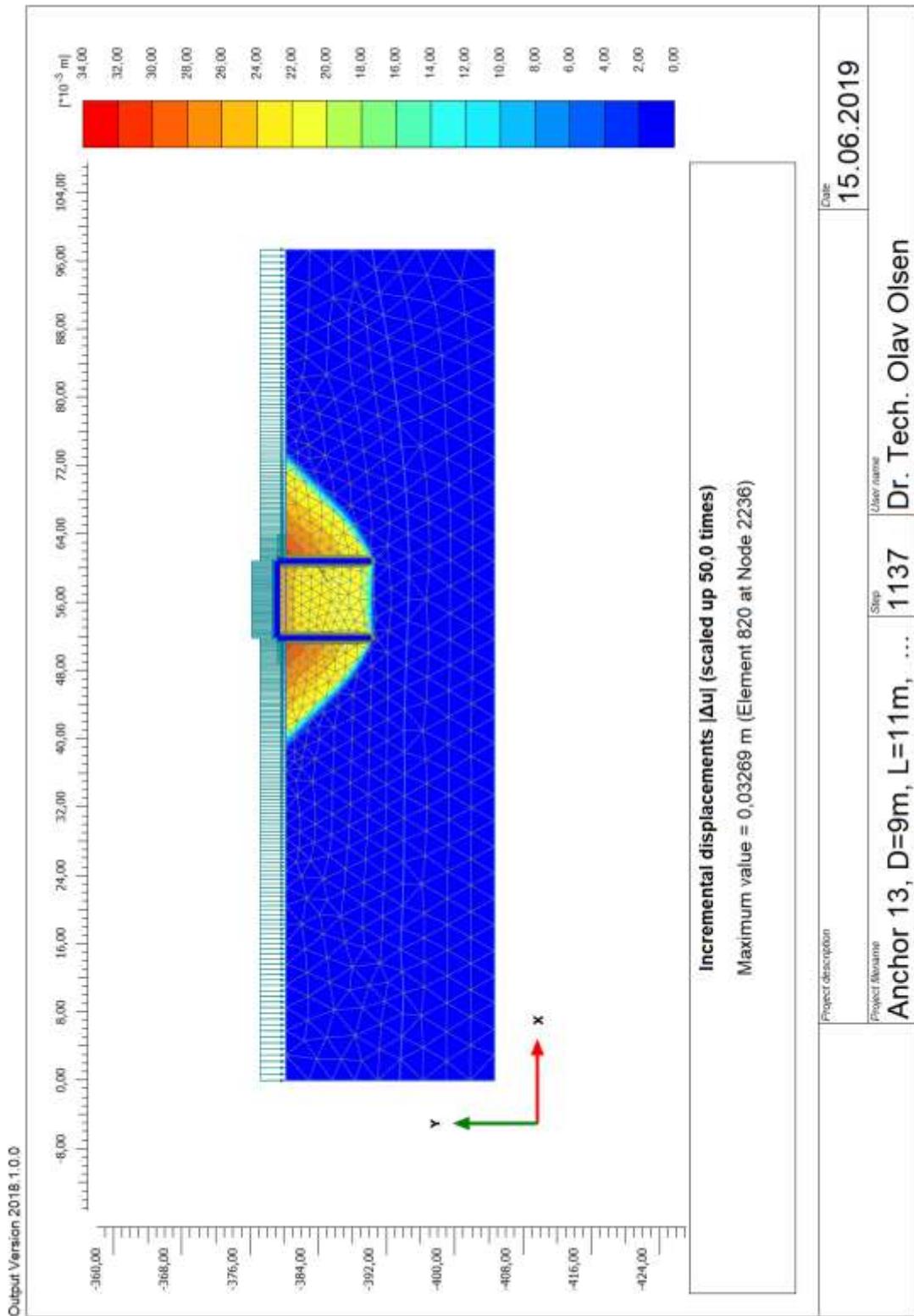
7.1.4 Vertical failure mode



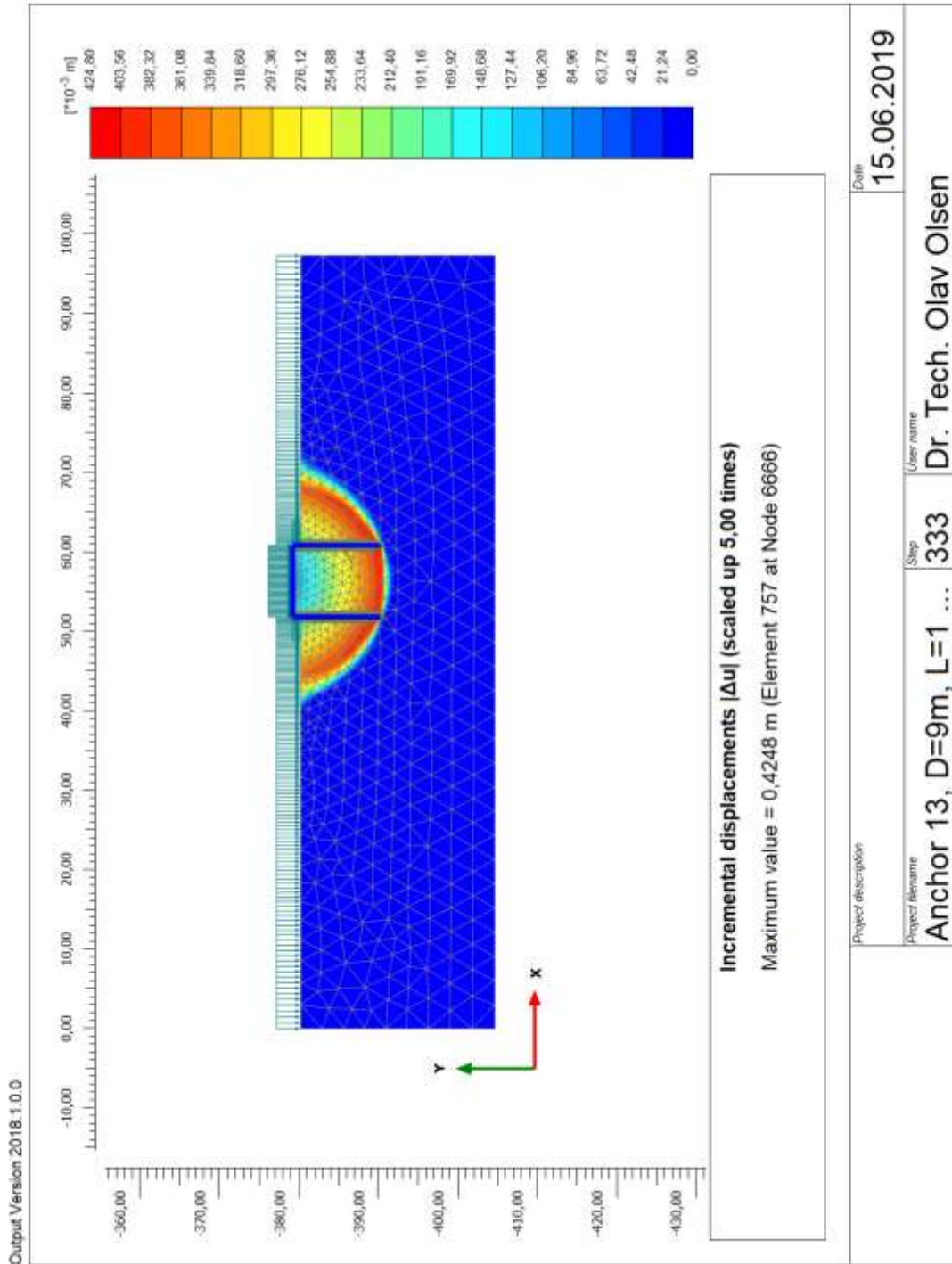
7.1.5 Horizontal failure mode



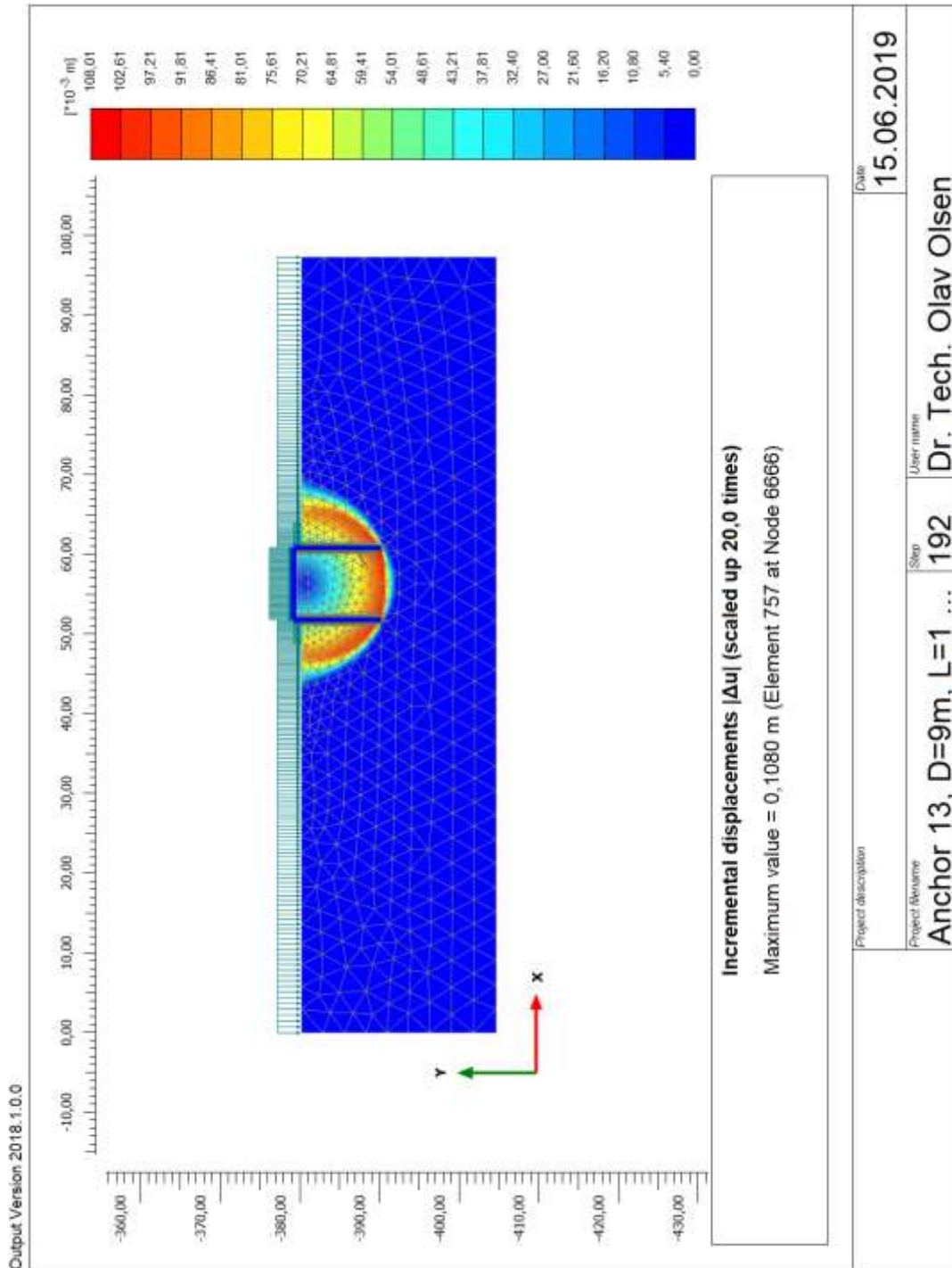
7.1.6 2/3 from skirt tip



7.1.7 1/2 from skirt tip

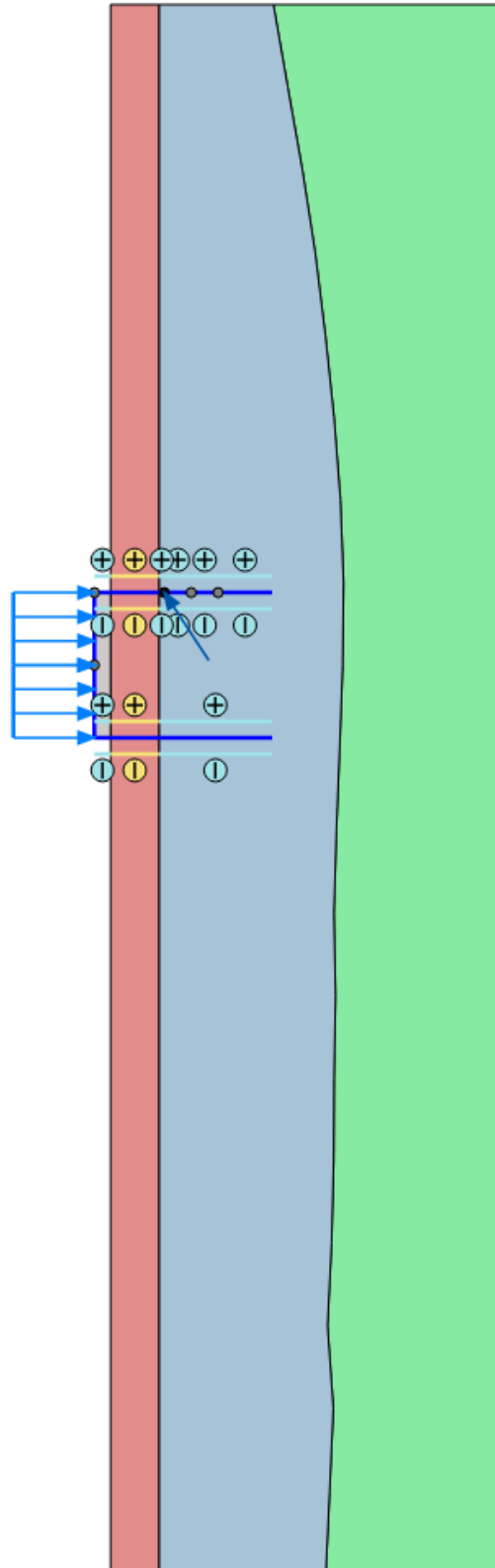


7.1.8 1/3 from skirt tip

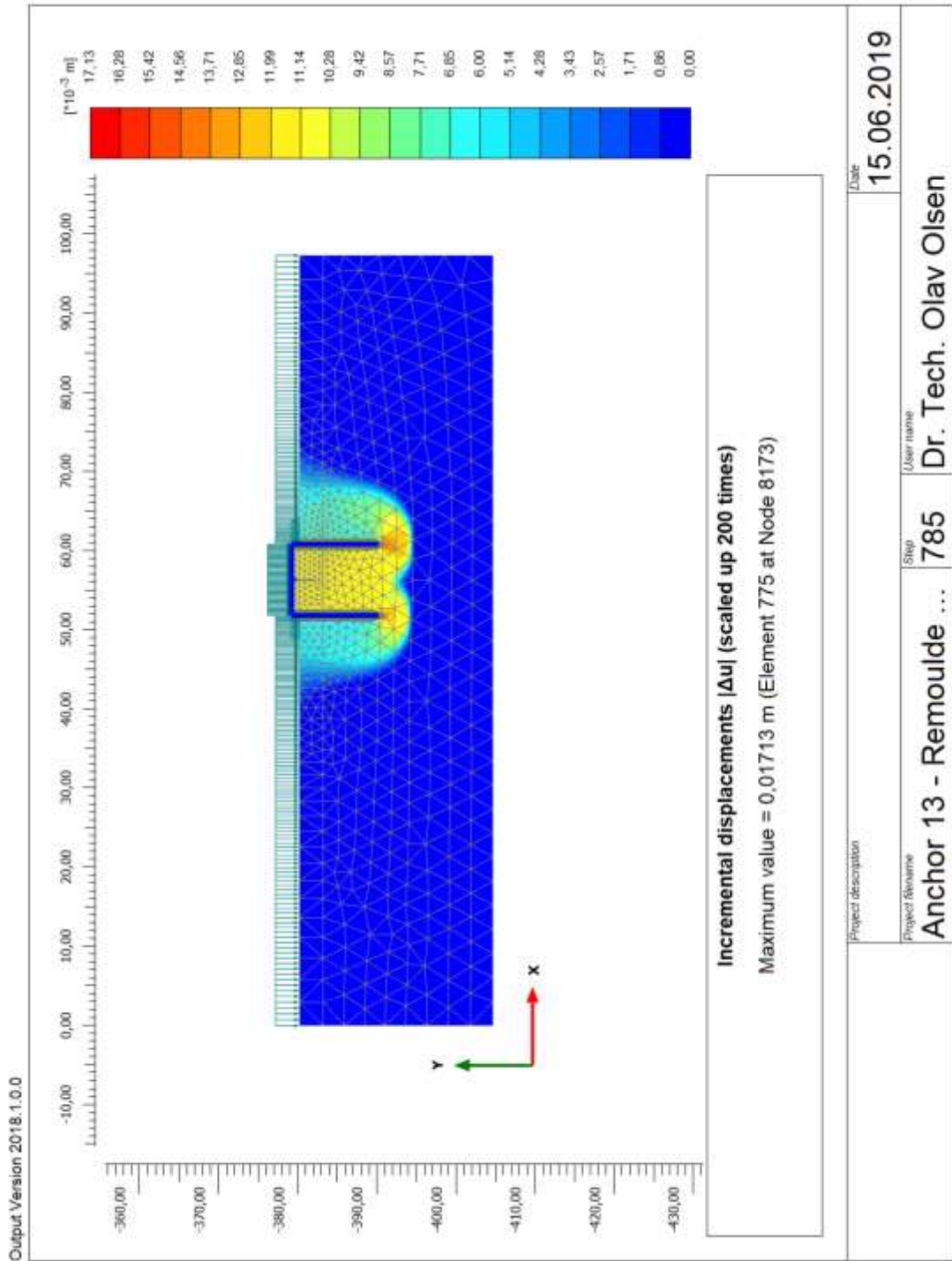


7.2 Top soil layer remoulded

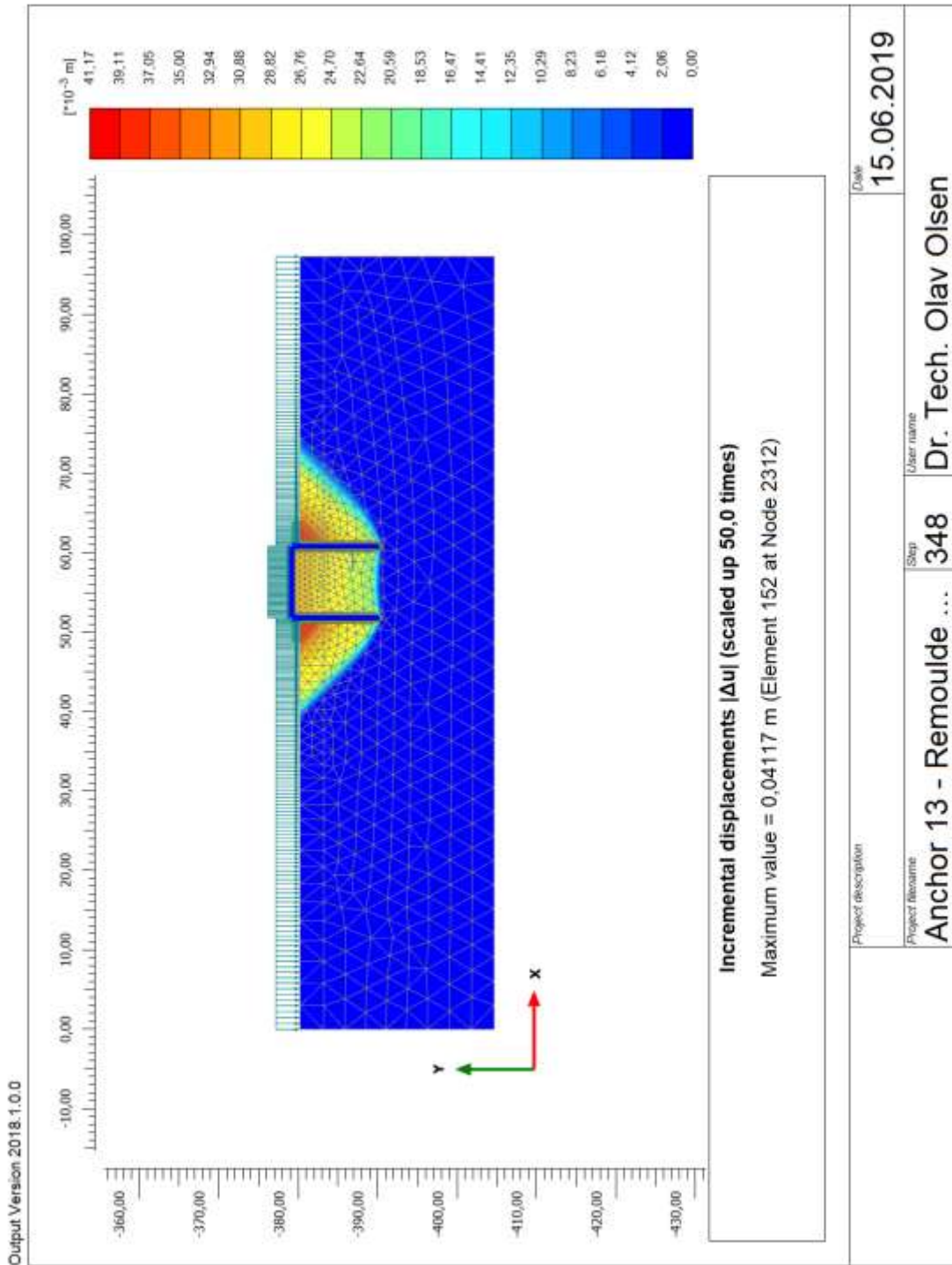
7.2.1 Model



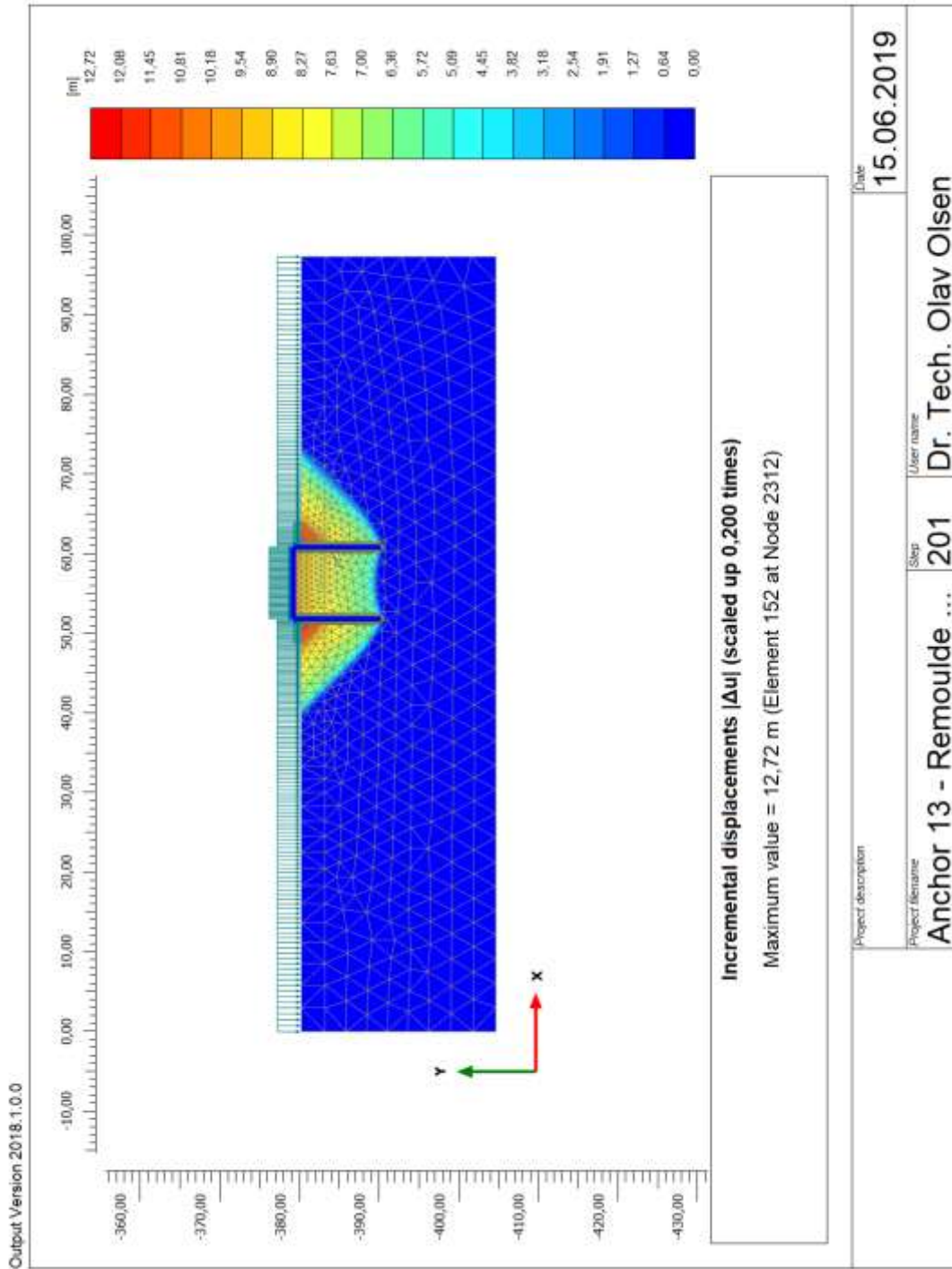
7.2.2 Vertical failure mode



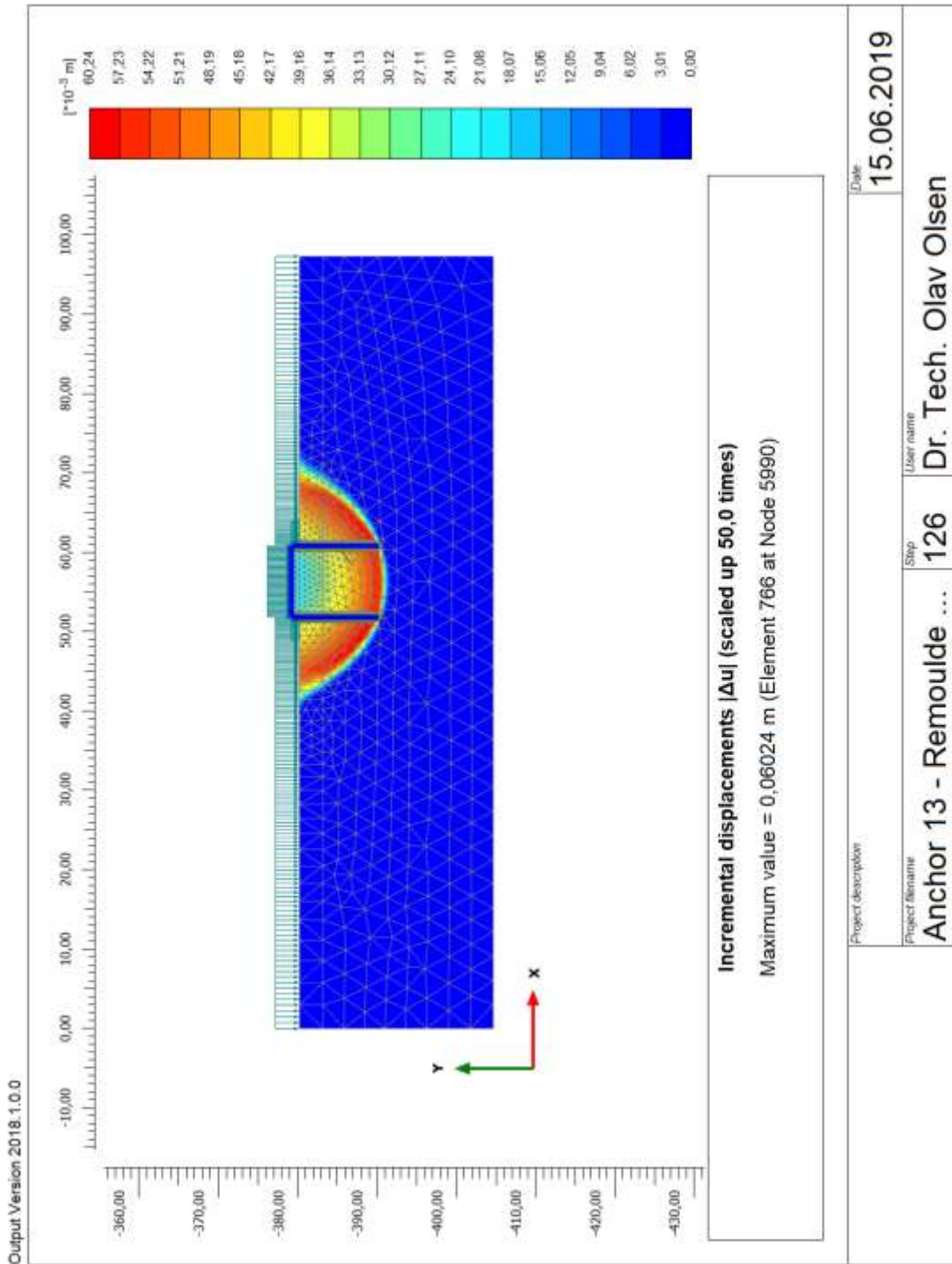
7.2.3 Horizontal failure mode



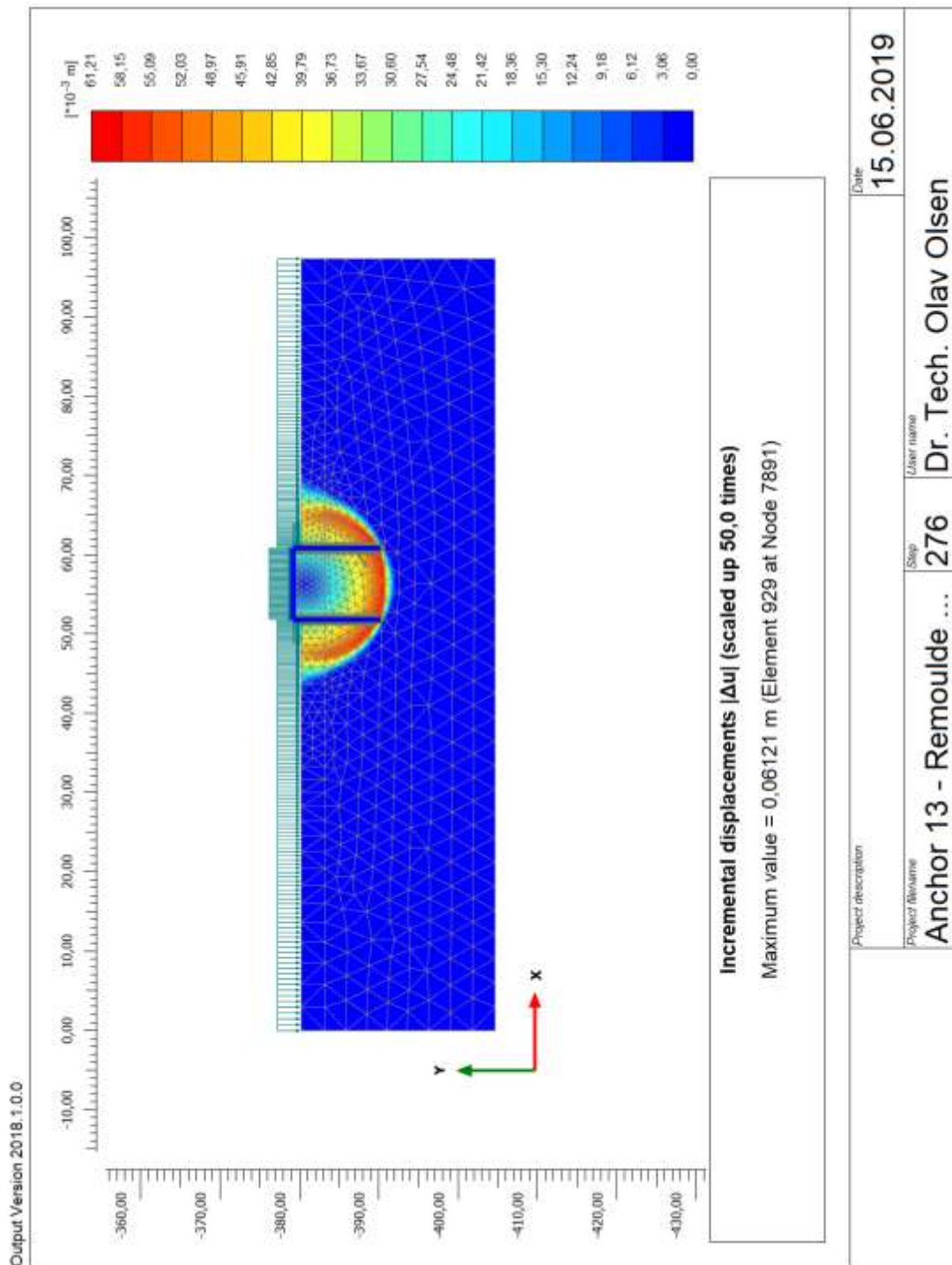
7.2.4 2/3 from skirt tip



7.2.5 1/2 from skirt tip



7.2.6 1/3 from skirt tip

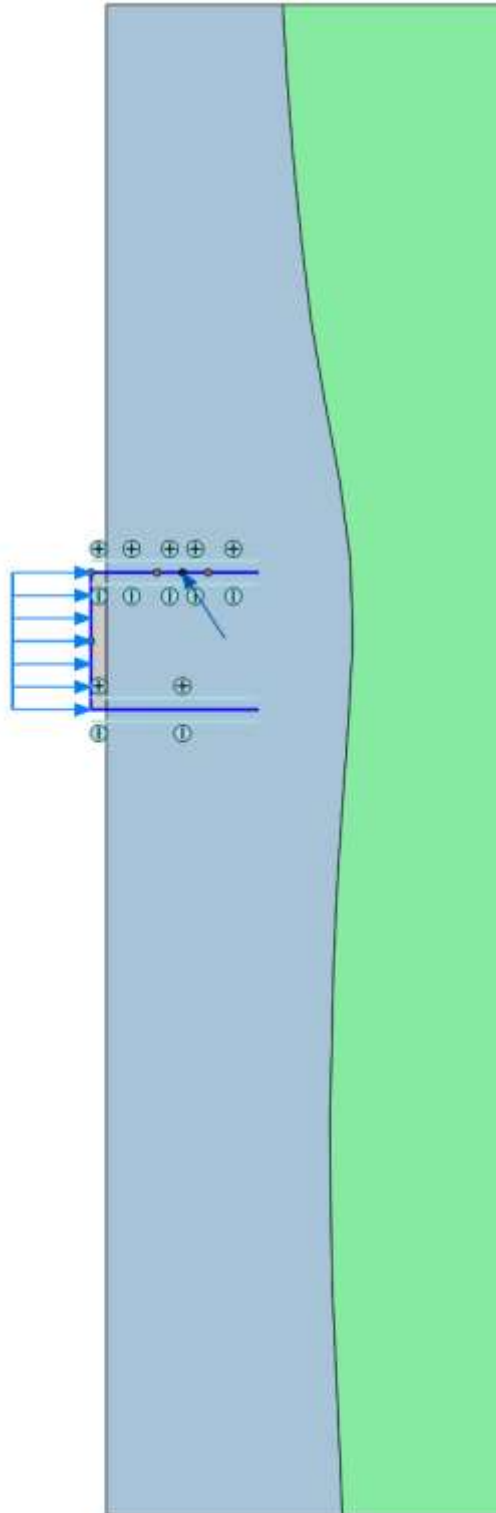


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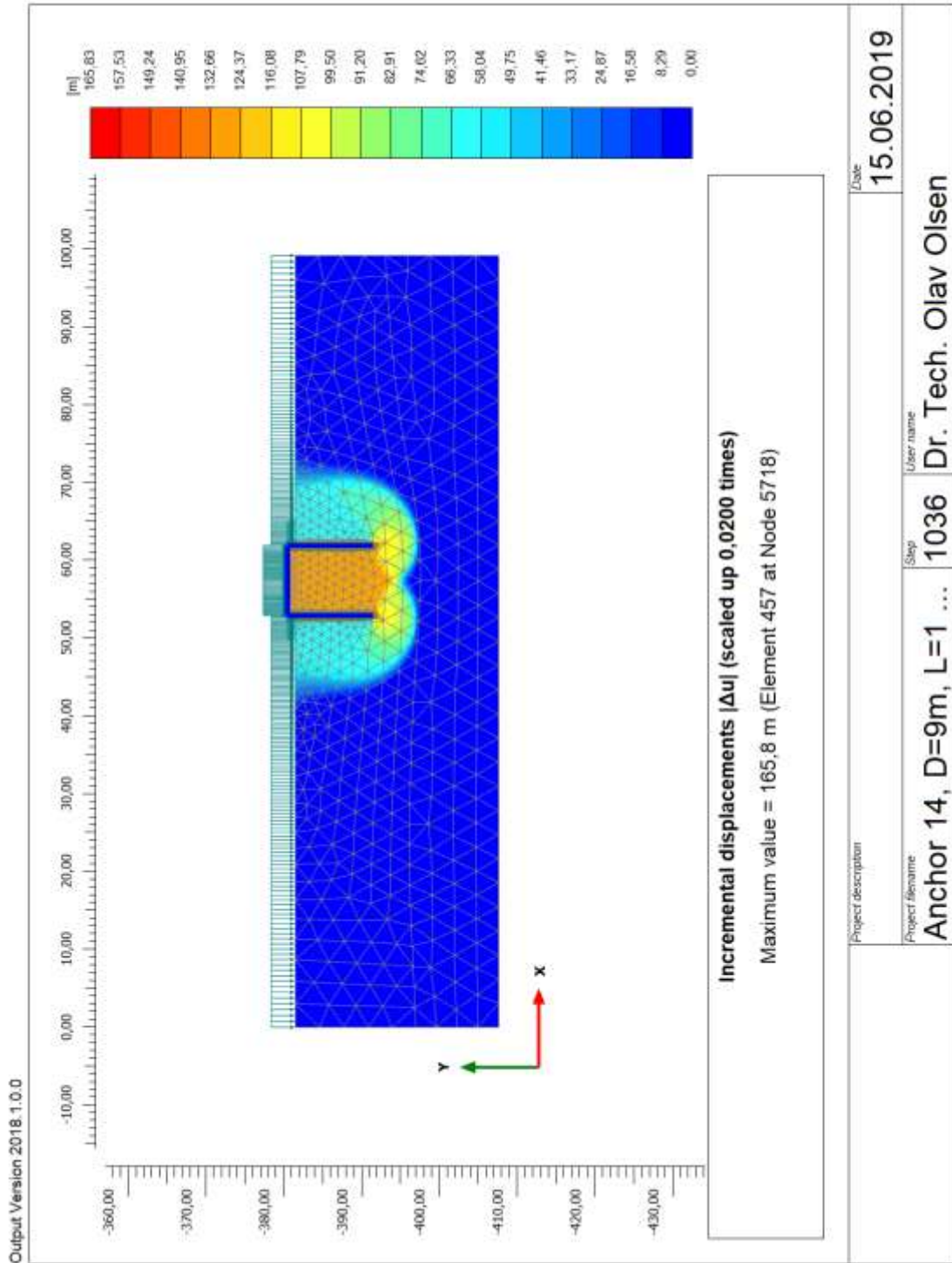
101

8.1 Intact soil

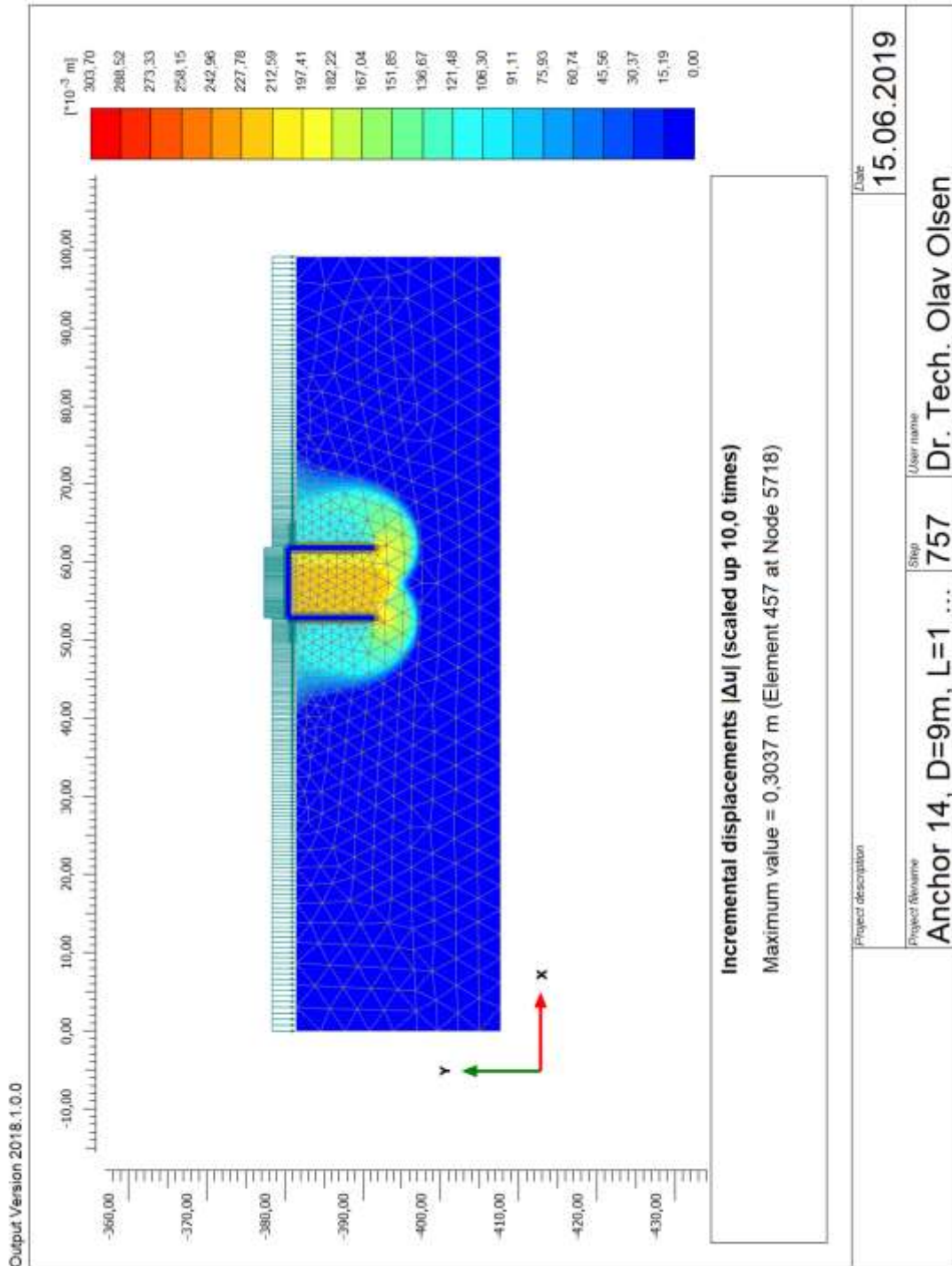
8.1.1 Model



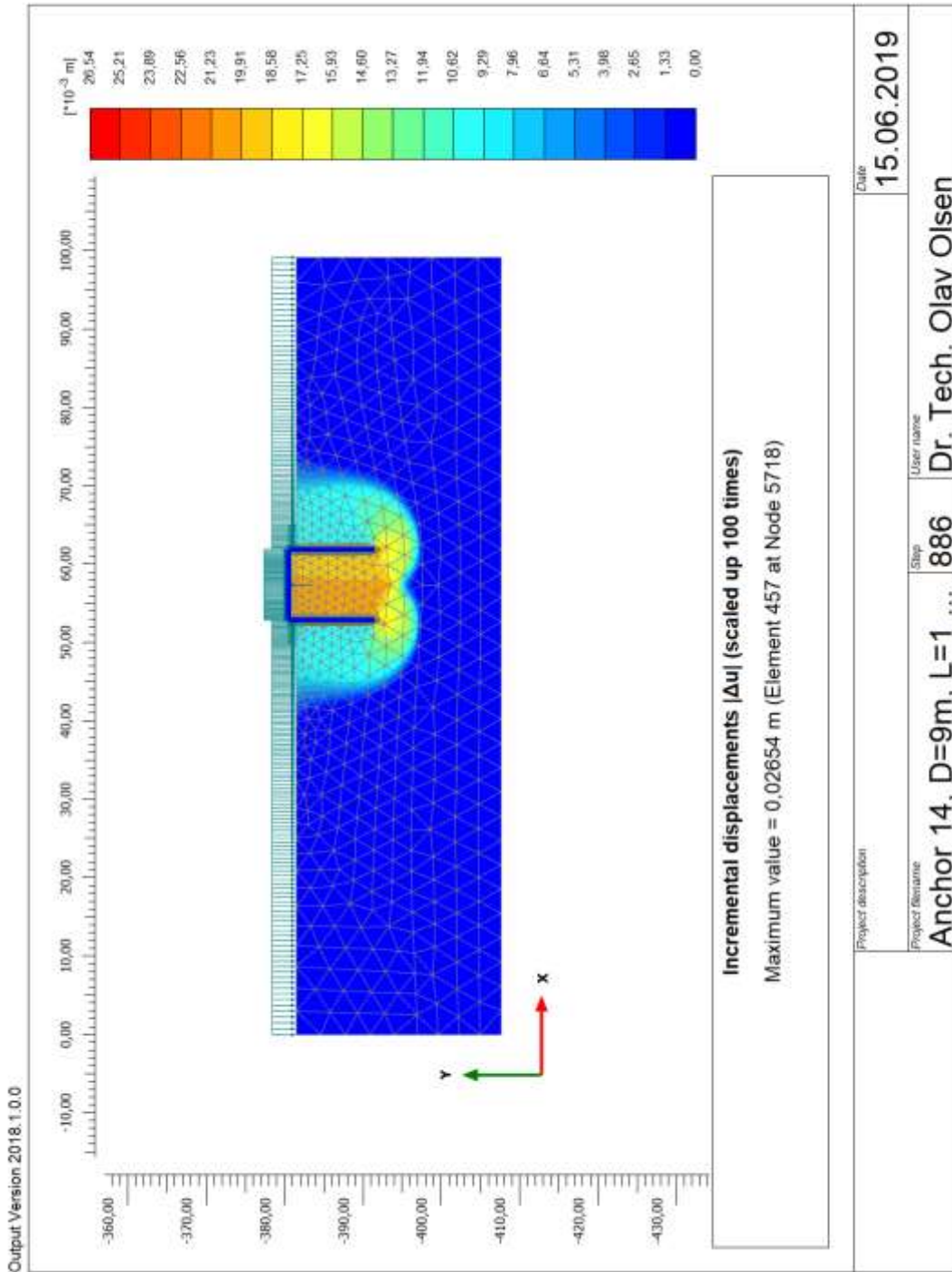
8.1.2 Undrained local slope stability



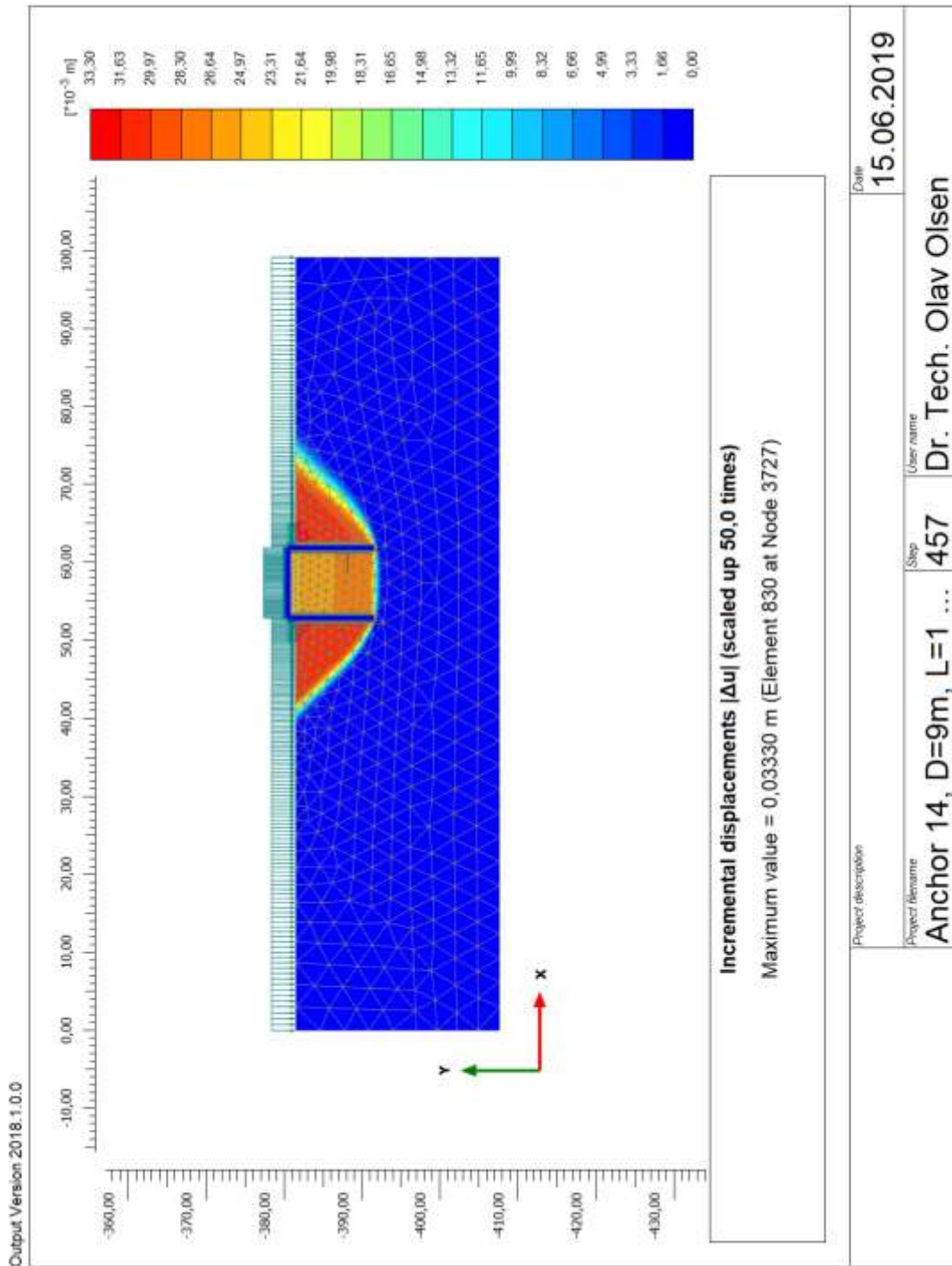
8.1.3 Drained local slope stability



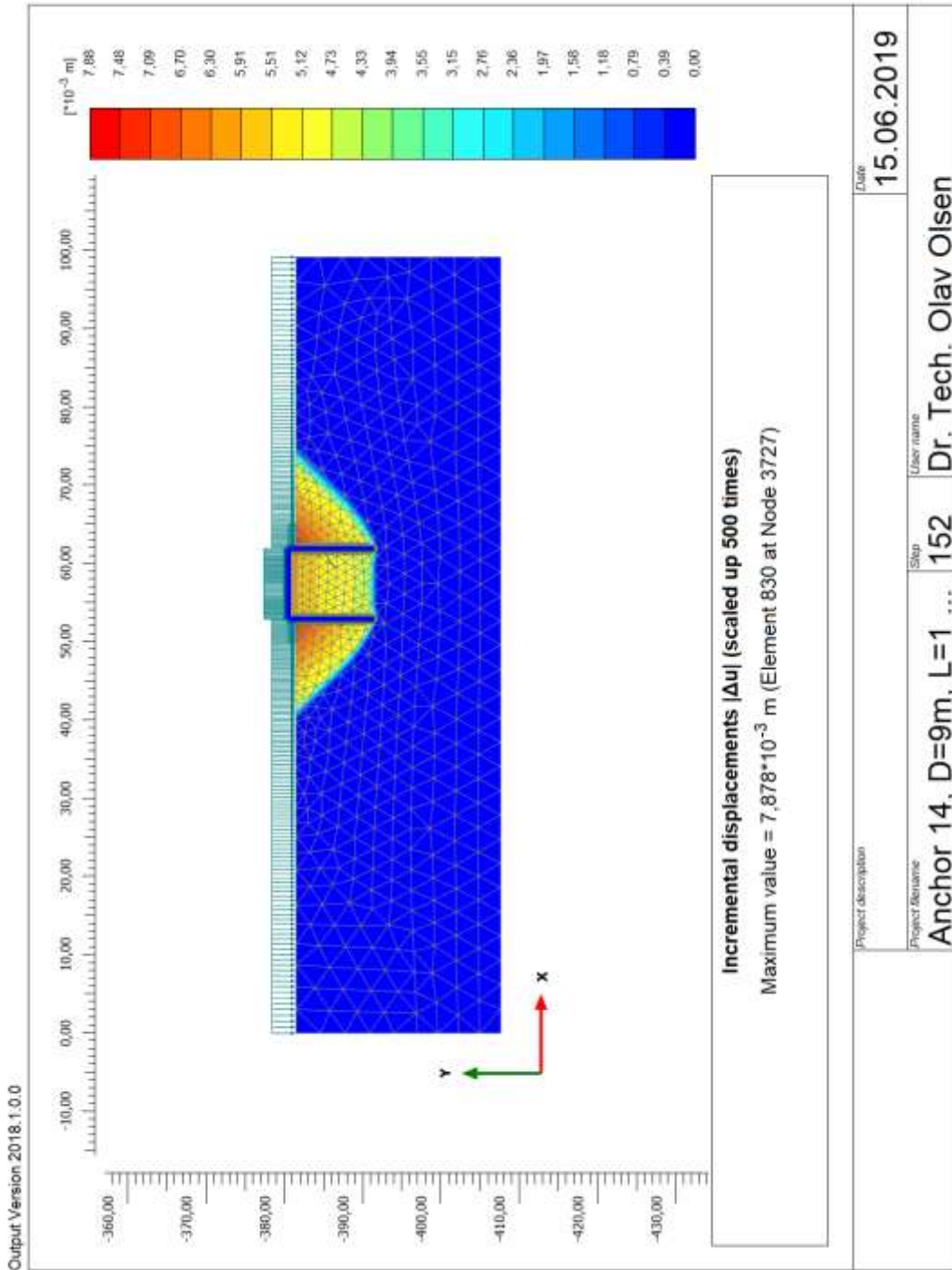
8.1.4 Vertical failure mode



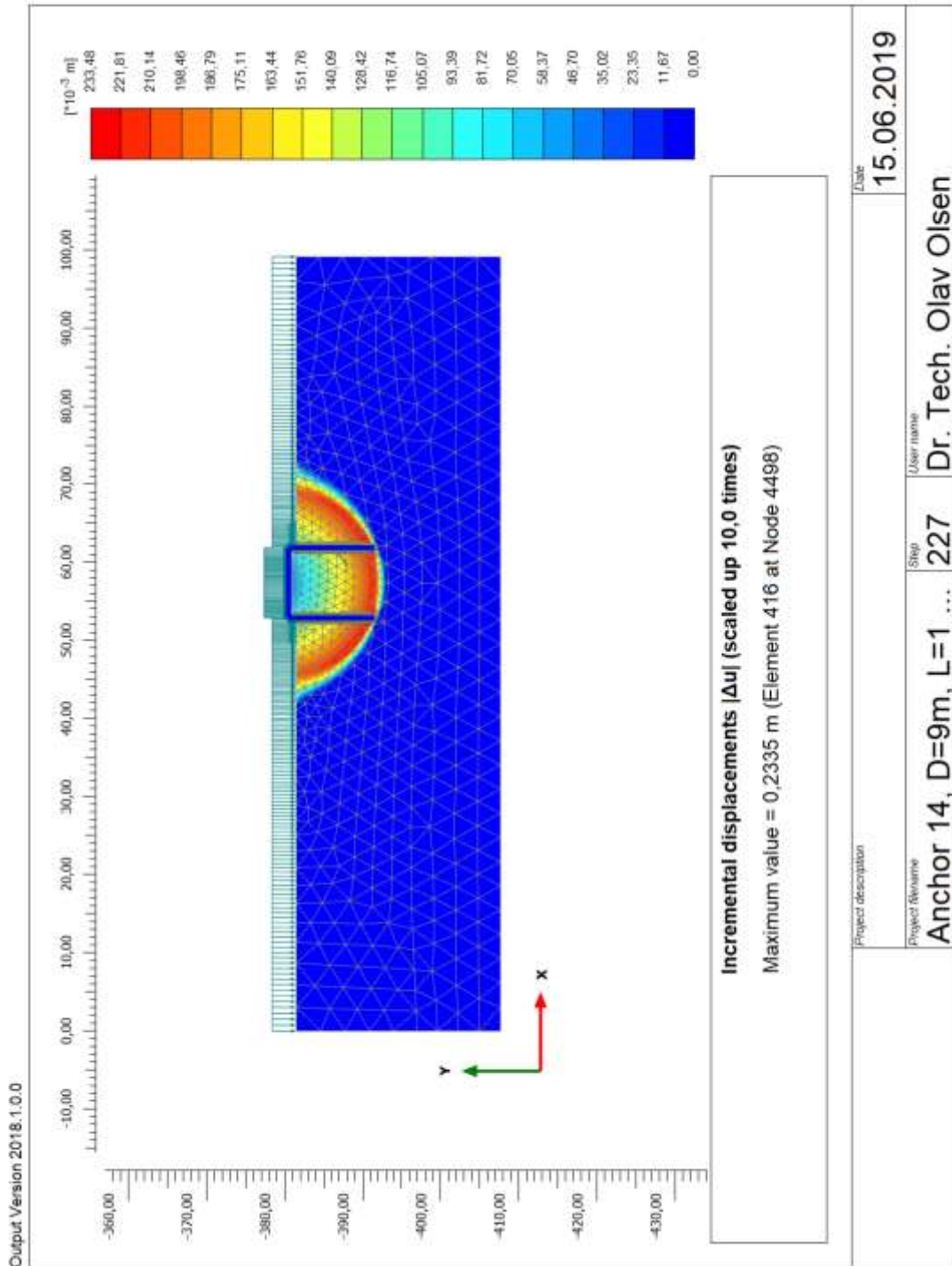
8.1.5 Horizontal failure mode



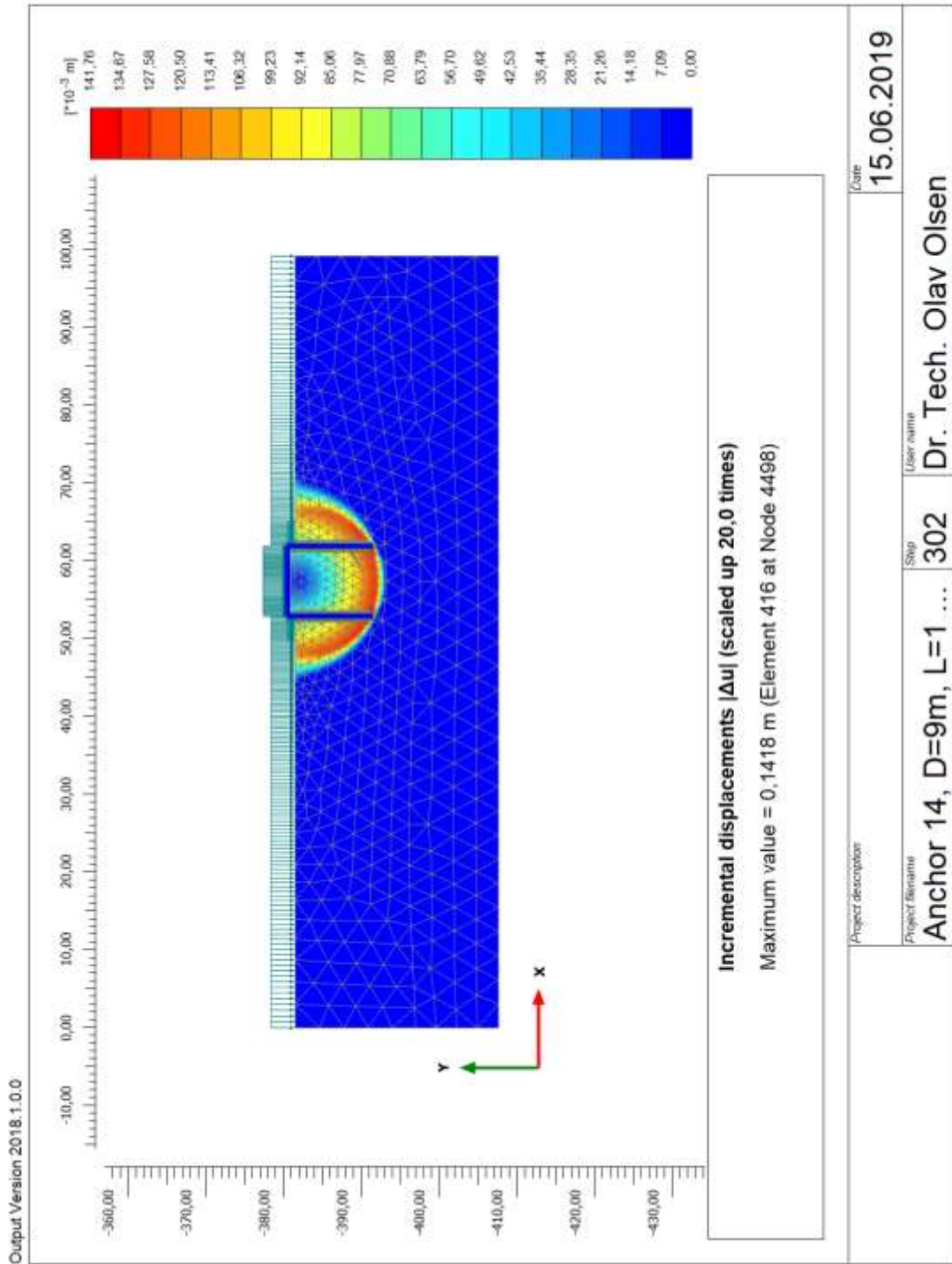
8.1.6 2/3 from skirt tip



8.1.7 1/2 from skirt tip

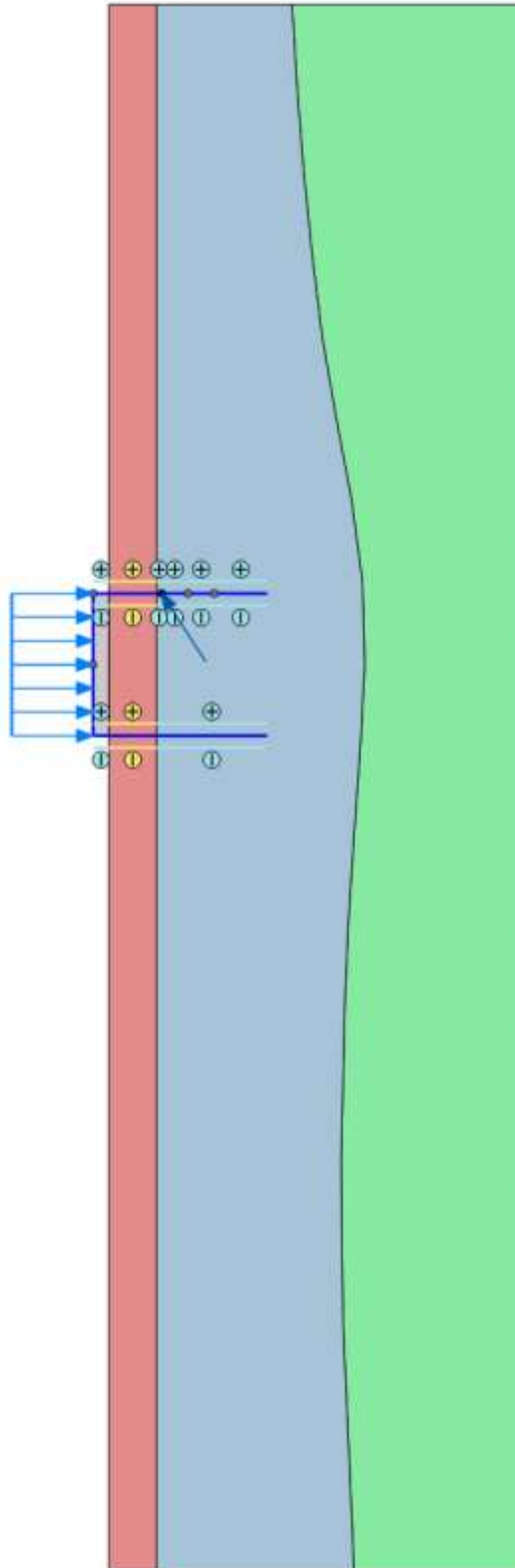


8.1.8 1/3 from skirt tip

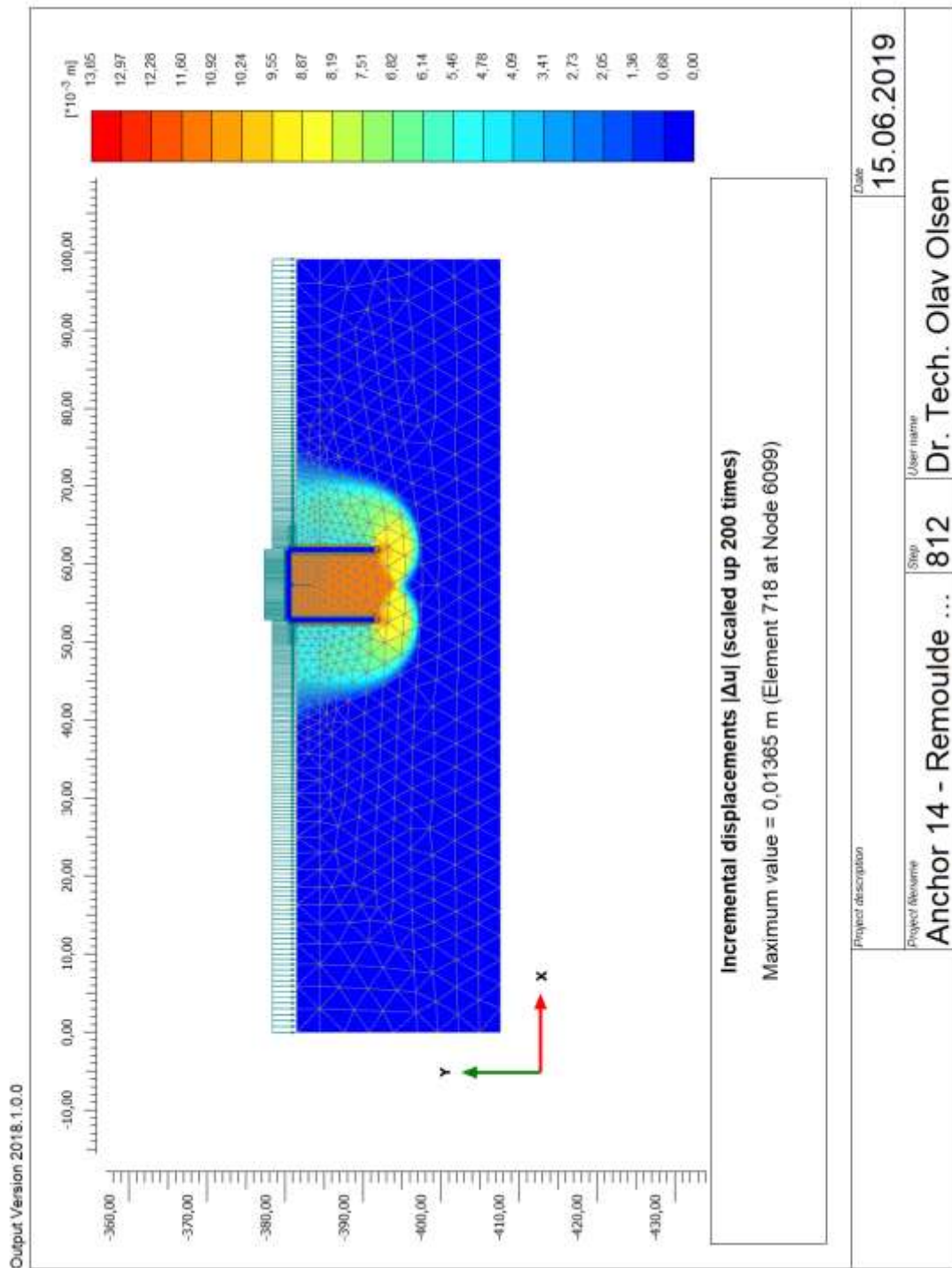


8.2 Top soil layer remoulded

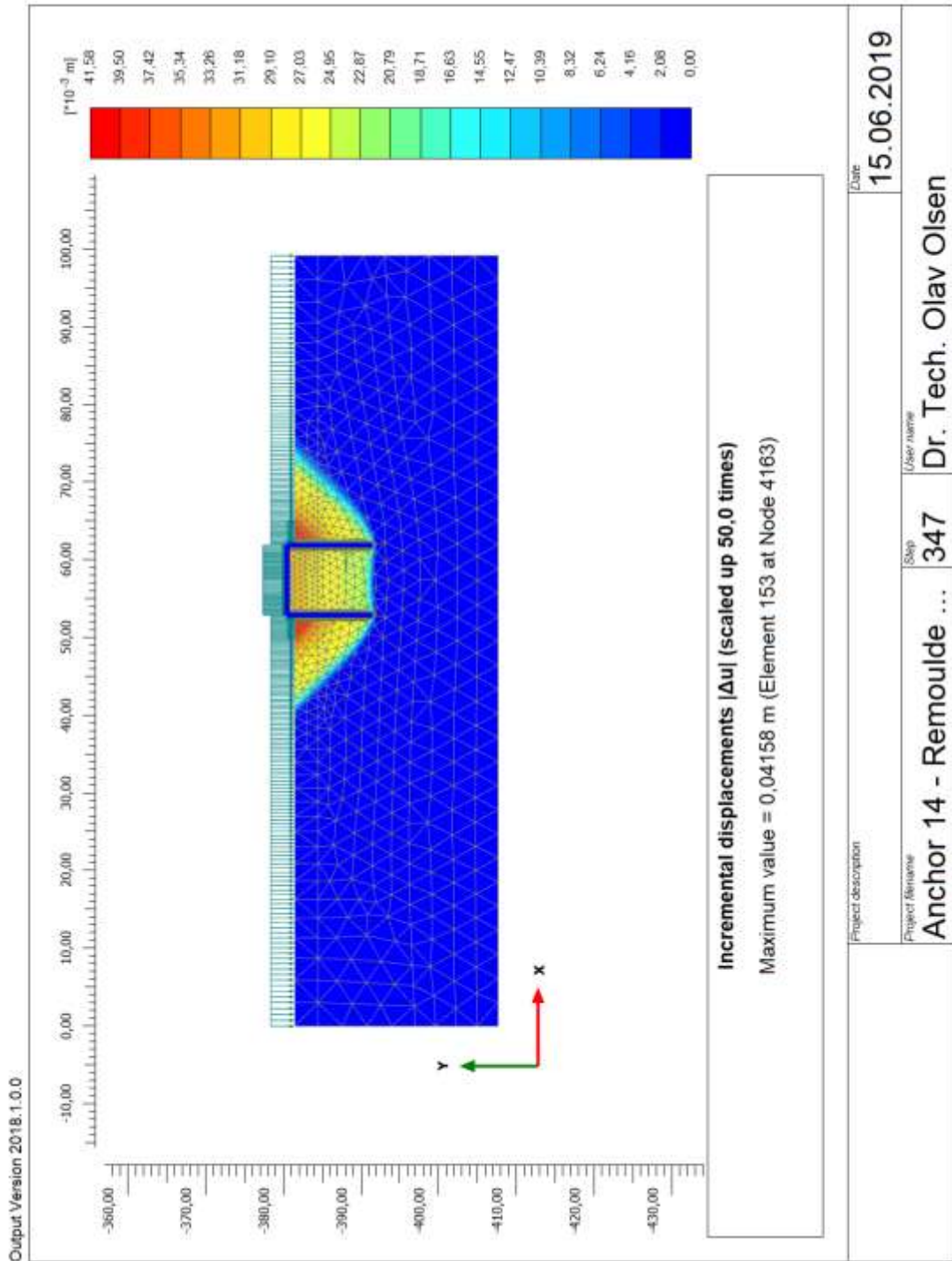
8.2.1 Model



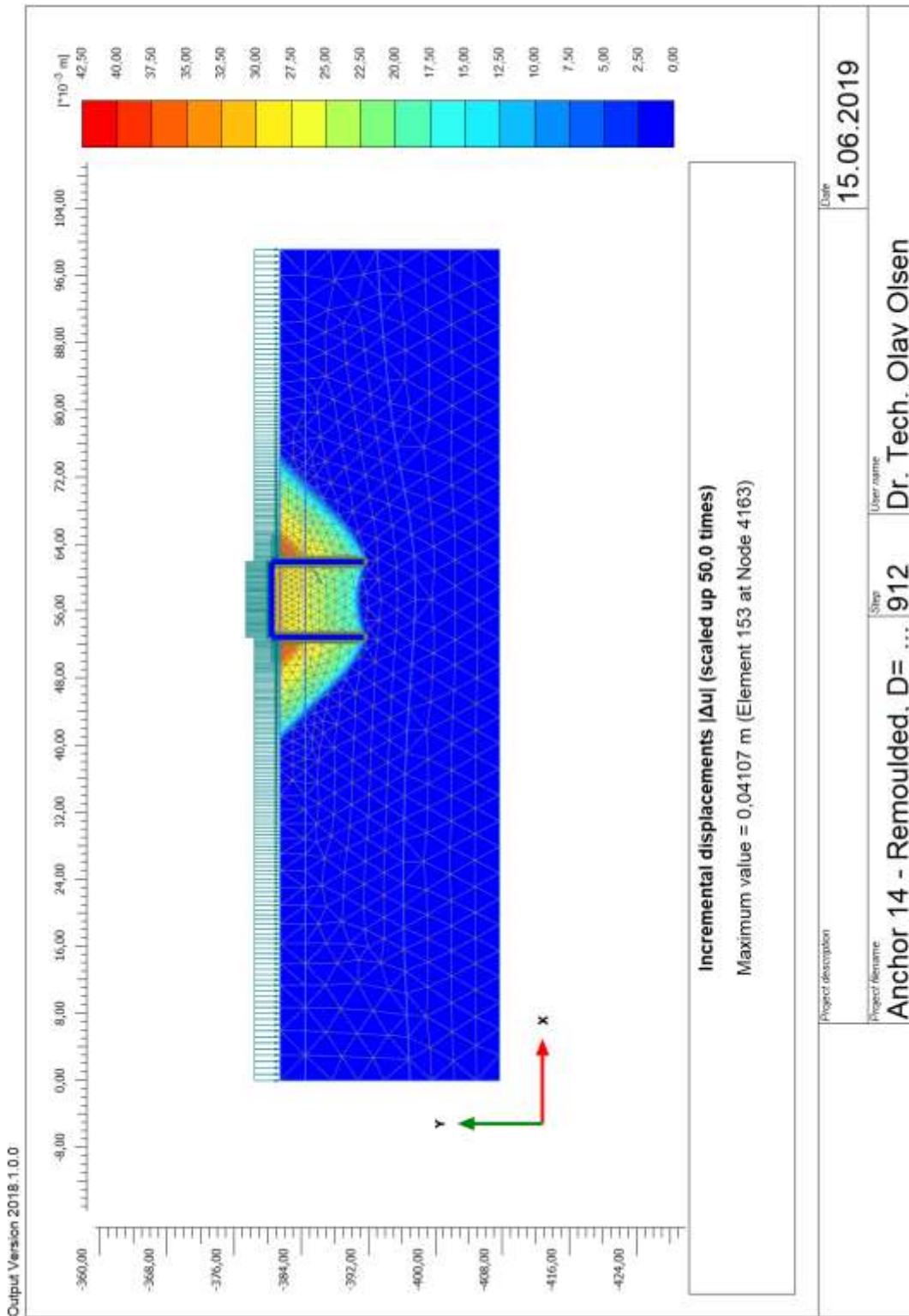
8.2.2 Vertical failure mode



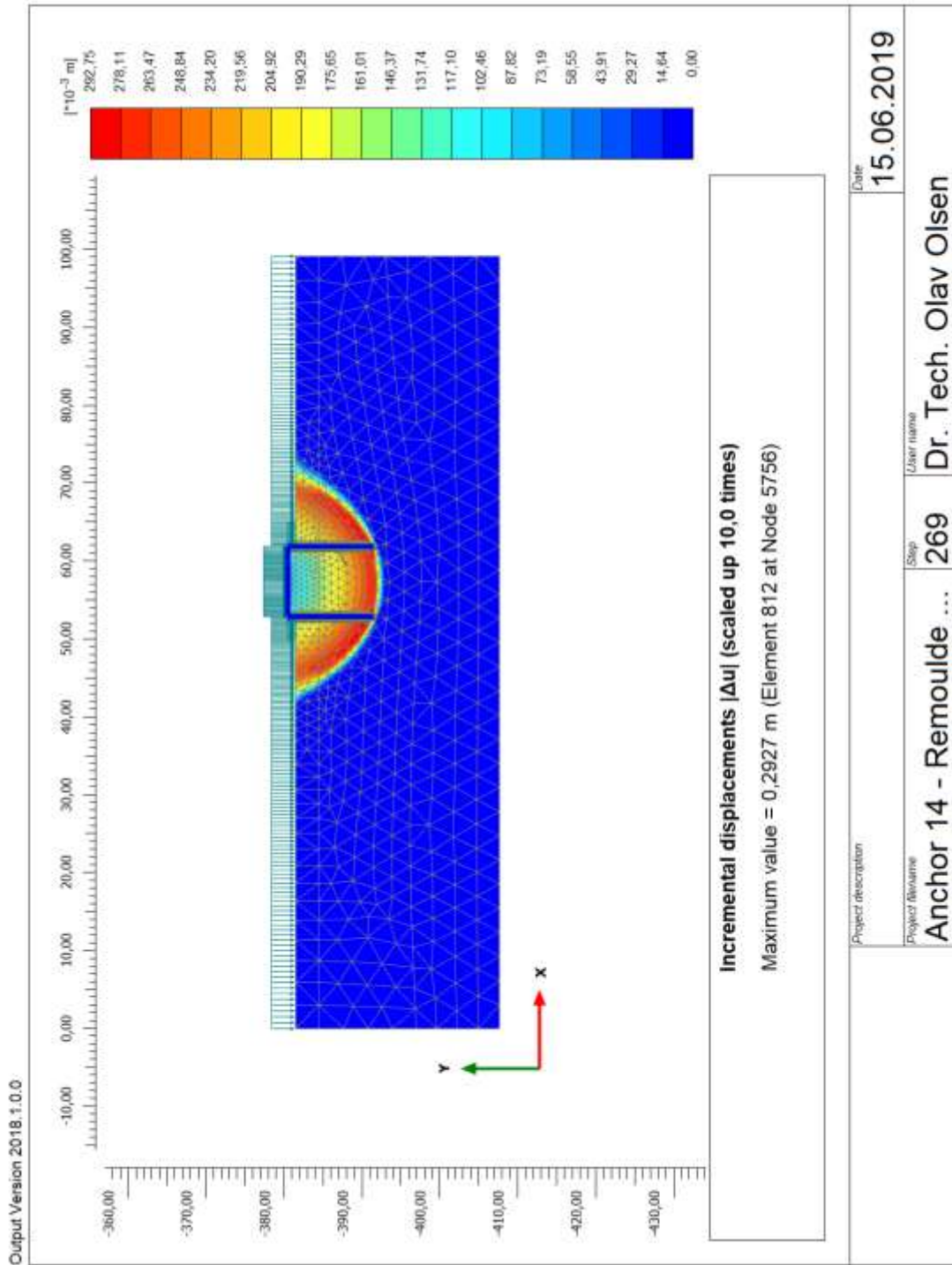
8.2.3 Horizontal failure mode



8.2.4 2/3 from skirt tip



8.2.5 1/2 from skirt tip



8.2.6 1/3 from skirt tip

