Danmarks Nationalbank – Opdriftssikring

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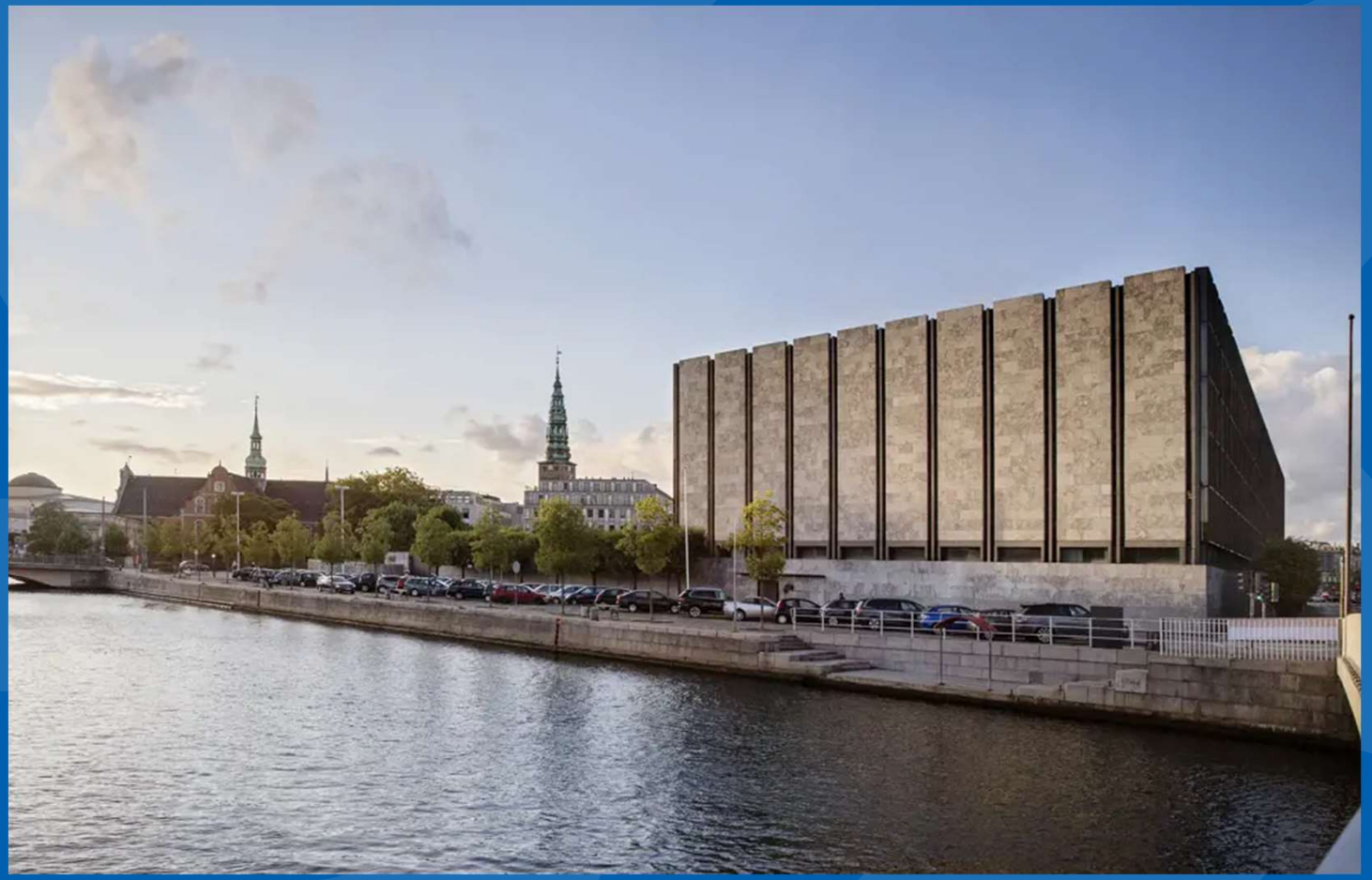

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Tal på projektet

- **187 opdriftsankre**
- **10-15m**
- **2 ankermaskiner**
- **Tidsplan: 2 ankre om ugen pr. maskine. Altså knap 1 år.**

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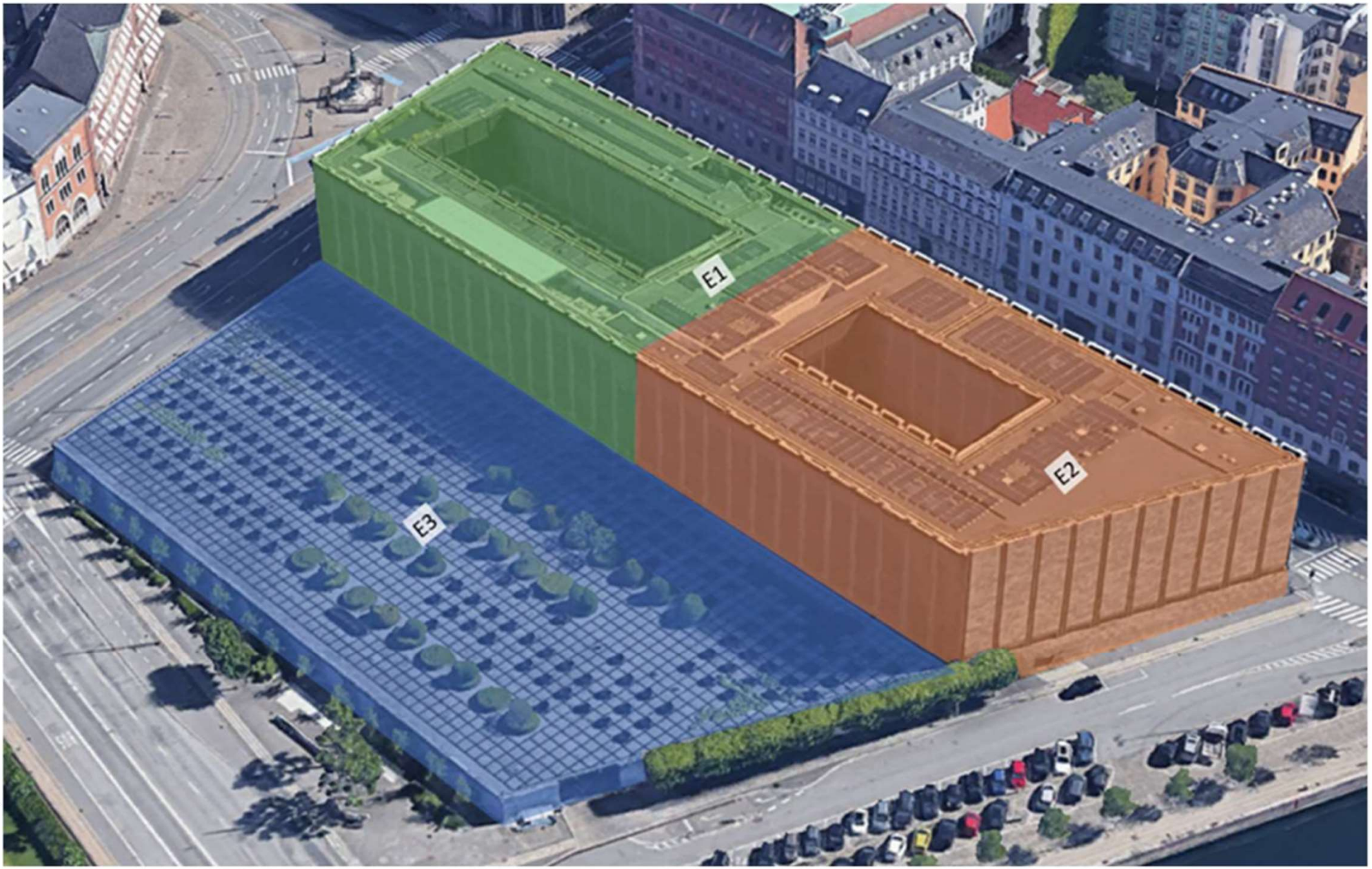
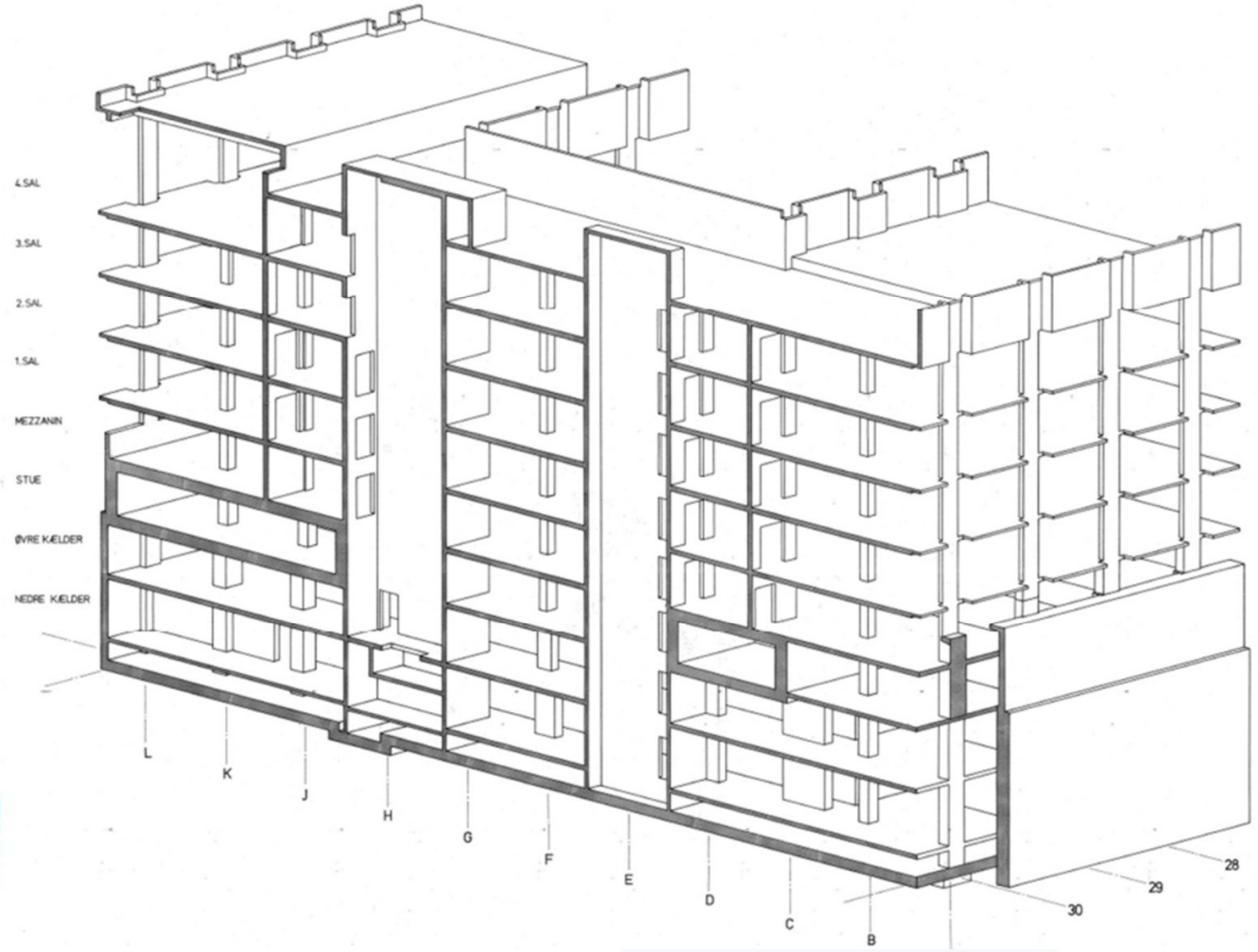
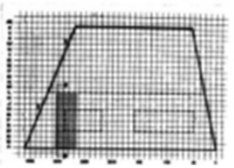
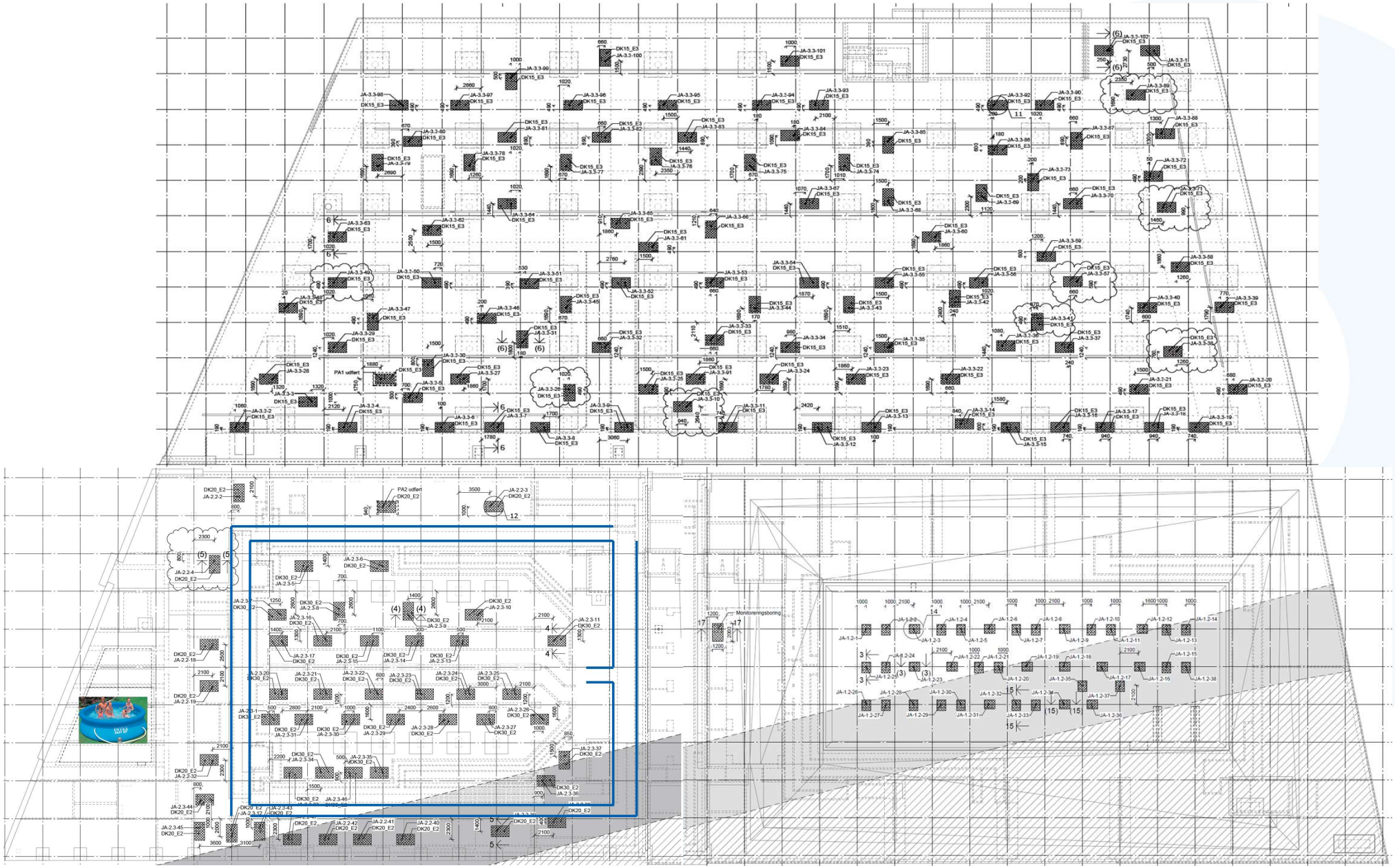
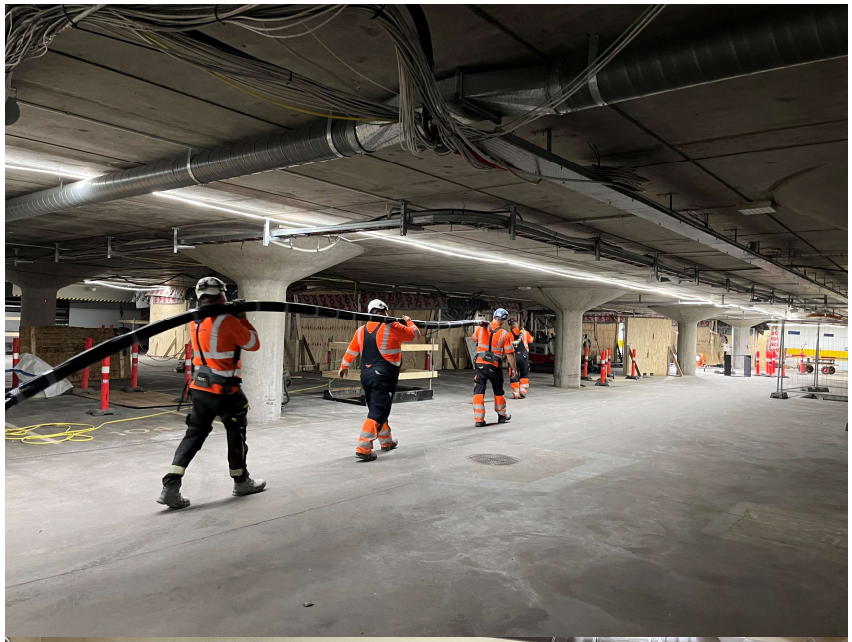


A


4.SAL
3.SAL
2.SAL
1.SAL
MEZZANIN
STUE
ØVRE KÆLDER
NEDRE KÆLDER
L
K
J
H
G
F
E
D
C
B
28
29
30

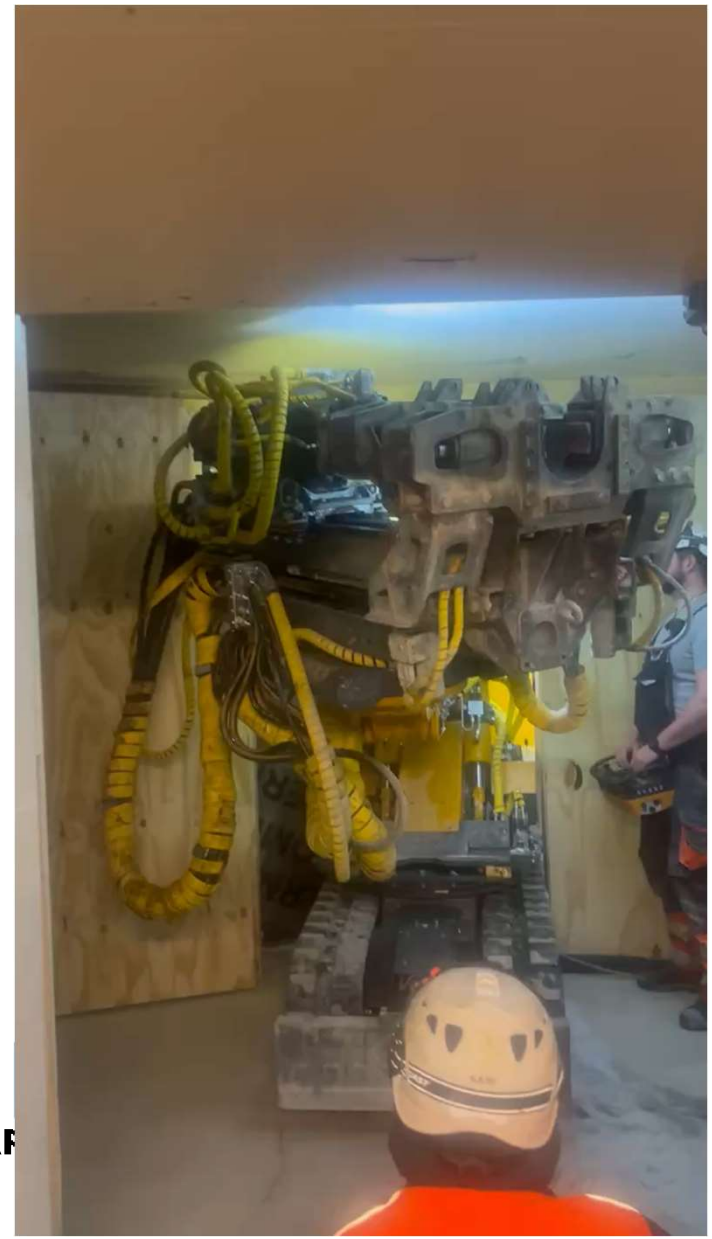


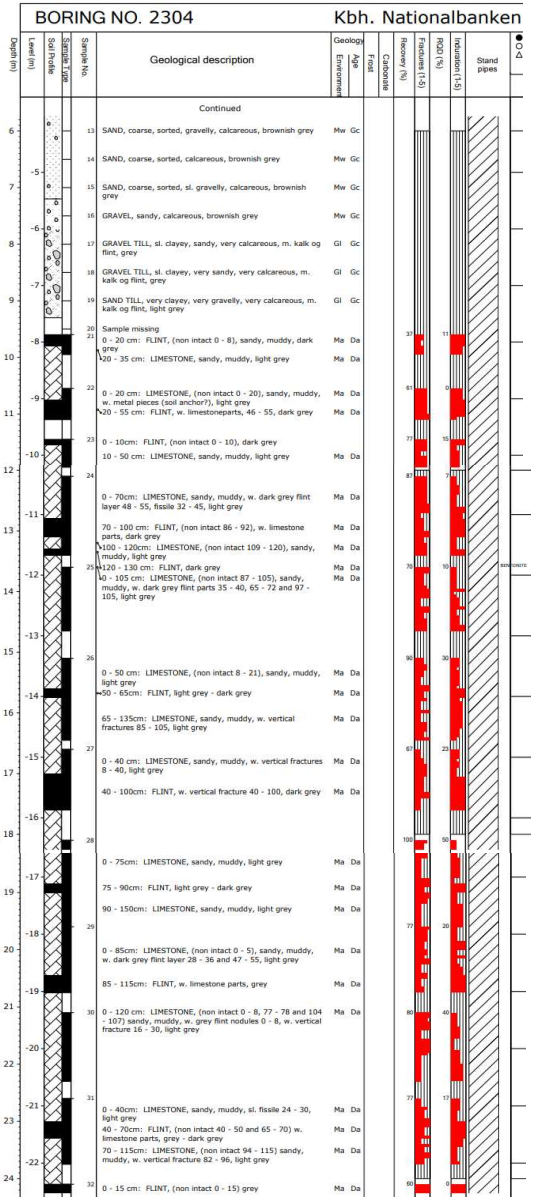

PA1 udfart
PA2 udfart
Monteringsboring

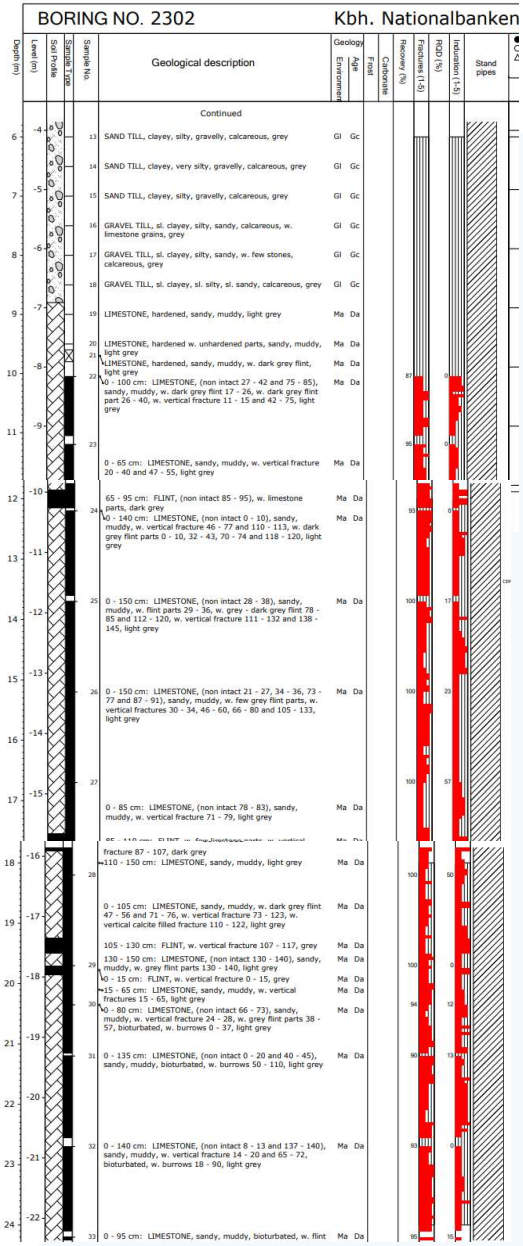


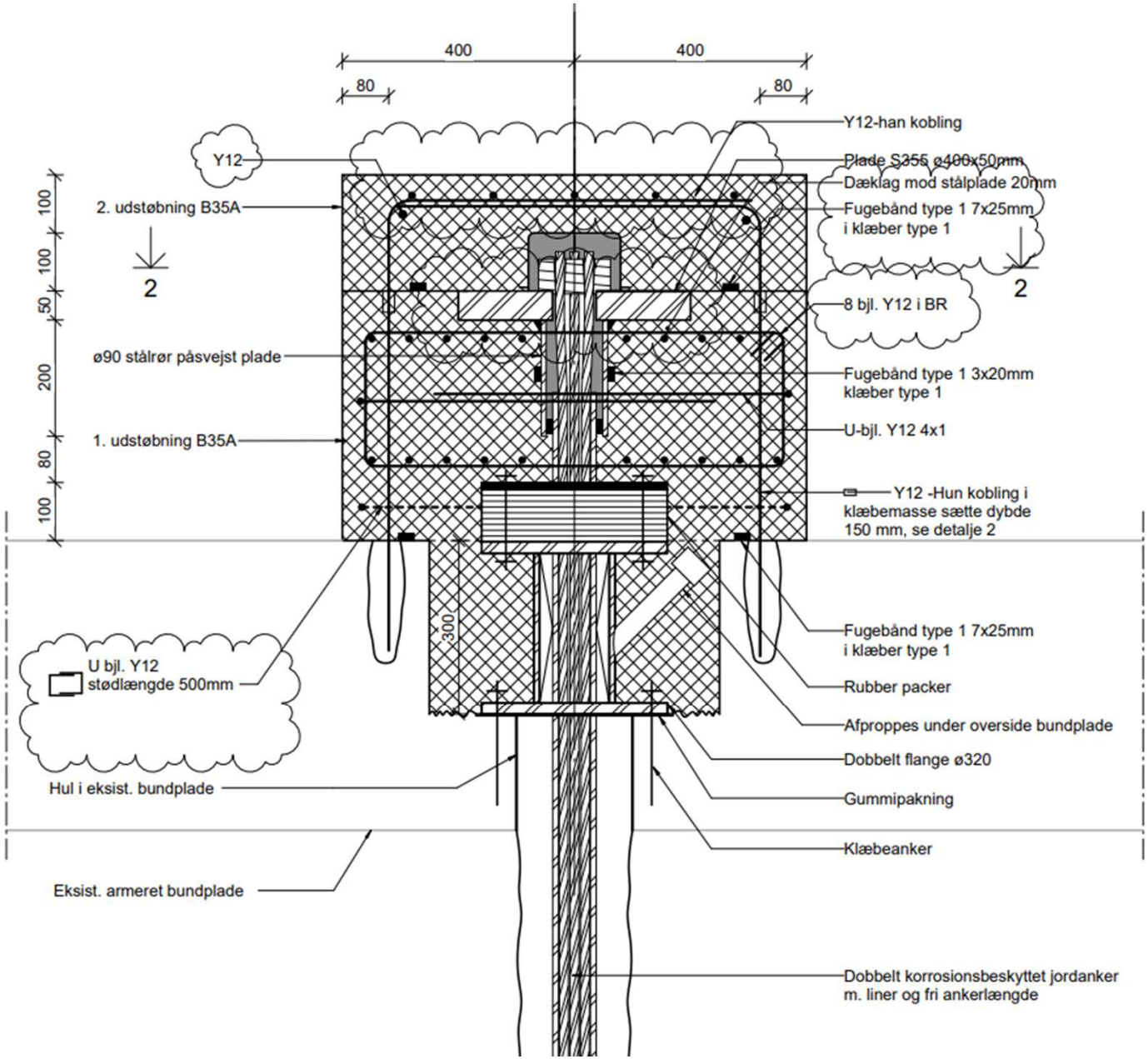
MORATH

MORATH




BORING NO. 2304
Kbh. Nationalbanken
Depth (m)
Level (m)
Soil Profile
Sample Type
Sample No.
Geological description
Geology
Environment
Age
Frost
Carbonate
Recovery (%)
Fractures (1-5)
RQD (%)
Inclination (1-5)
Stand pipes
Continued
SAND, coarse, sorted, gravelly, calcareous, brownish grey
SAND, coarse, sorted, calcareous, brownish grey
SAND, coarse, sorted, sl. gravelly, calcareous, brownish grey
GRAVEL, sandy, calcareous, brownish grey
GRAVEL TILL, sl. clayey, sandy, very calcareous, m. kalk og flint, grey
GRAVEL TILL, sl. clayey, very sandy, very calcareous, m. kalk og flint, grey
SAND TILL, very clayey, very gravelly, very calcareous, m. kalk og flint, light grey
Sample missing
0 - 20 cm: FLINT, (non intact 0 - 8), sandy, muddy, dark grey
20 - 35 cm: LIMESTONE, sandy, muddy, light grey
0 - 20 cm: LIMESTONE, (non intact 0 - 20), sandy, muddy, w. metal pieces (soil anchor?), light grey
20 - 55 cm: FLINT, w. limestoneparts, 46 - 55, dark grey
0 - 10cm: FLINT, (non intact 0 - 10), dark grey
10 - 50 cm: LIMESTONE, sandy, muddy, light grey
0 - 70cm: LIMESTONE, sandy, muddy, w. dark grey flint layer 48 - 55, fissile 32 - 45, light grey
70 - 100 cm: FLINT, (non intact 86 - 92), w. limestone parts, dark grey
100 - 120cm: LIMESTONE, (non intact 109 - 120), sandy, muddy, light grey
120 - 130 cm: FLINT, dark grey
0 - 105 cm: LIMESTONE, (non intact 87 - 105), sandy, muddy, w. dark grey flint parts 35 - 40, 65 - 72 and 97 - 105, light grey
0 - 50 cm: LIMESTONE, (non intact 8 - 21), sandy, muddy, light grey
50 - 65cm: FLINT, light grey - dark grey
65 - 135cm: LIMESTONE, sandy, muddy, w. vertical fractures 85 - 105, light grey
0 - 40 cm: LIMESTONE, sandy, muddy, w. vertical fractures 8 - 40, light grey
40 - 100cm: FLINT, w. vertical fracture 40 - 100, dark grey
0 - 75cm: LIMESTONE, sandy, muddy, light grey
75 - 90cm: FLINT, light grey - dark grey
90 - 150cm: LIMESTONE, sandy, muddy, light grey
0 - 85cm: LIMESTONE, (non intact 0 - 5), sandy, muddy, w. dark grey flint layer 28 - 36 and 47 - 55, light grey
85 - 115cm: FLINT, w. limestone parts, grey
0 - 120 cm: LIMESTONE, (non intact 0 - 8, 77 - 78 and 104 - 107) sandy, muddy, w. grey flint nodules 0 - 8, w. vertical fracture 16 - 30, light grey
0 - 40cm: LIMESTONE, sandy, muddy, sl. fissile 24 - 30, light grey
40 - 70cm: FLINT, (non intact 40 - 50 and 65 - 70) w. limestone parts, grey - dark grey
70 - 115cm: LIMESTONE, (non intact 94 - 115) sandy, muddy, w. vertical fracture 82 - 96, light grey
0 - 15 cm: FLINT, (non intact 0 - 15) grey


BORING NO. 2302
Kbh. Nationalbanken
Depth (m)
Level (m)
Soil Profile
Sample Type
Sample No.
Geological description
Geology
Environment
Age
Frost
Carbonate
Recovery (%)
Fractures (1-5)
RQD (%)
Inclination (1-5)
Stand pipes
Continued
SAND TILL, clayey, silty, gravelly, calcareous, grey
SAND TILL, clayey, very silty, gravelly, calcareous, grey
SAND TILL, clayey, silty, gravelly, calcareous, grey
GRAVEL TILL, sl. clayey, silty, sandy, calcareous, w. limestone grains, grey
GRAVEL TILL, sl. clayey, silty, sandy, w. few stones, calcareous, grey
GRAVEL TILL, sl. clayey, sl. silty, sl. sandy, calcareous, grey
LIMESTONE, hardened, sandy, muddy, light grey
LIMESTONE, hardened w. unhardened parts, sandy, muddy, light grey
LIMESTONE, hardened, sandy, muddy, w. dark grey flint, light grey
0 - 100 cm: LIMESTONE, (non intact 27 - 42 and 75 - 85), sandy, muddy, w. dark grey flint 17 - 26, w. dark grey flint part 26 - 40, w. vertical fracture 11 - 15 and 42 - 75, light grey
0 - 65 cm: LIMESTONE, sandy, muddy, w. vertical fracture 20 - 40 and 47 - 55, light grey
65 - 95 cm: FLINT, (non intact 85 - 95), w. limestone parts, dark grey
0 - 140 cm: LIMESTONE, (non intact 0 - 10), sandy, muddy, w. vertical fracture 46 - 77 and 110 - 113, w. dark grey flint parts 0 - 10, 32 - 43, 70 - 74 and 118 - 120, light grey
0 - 150 cm: LIMESTONE, (non intact 28 - 38), sandy, muddy, w. flint parts 29 - 36, w. grey - dark grey flint 78 - 85 and 112 - 120, w. vertical fracture 111 - 132 and 138 - 145, light grey
0 - 150 cm: LIMESTONE, (non intact 21 - 27, 34 - 36, 73 - 77 and 87 - 91), sandy, muddy, w. few grey flint parts, w. vertical fractures 30 - 34, 46 - 60, 66 - 80 and 105 - 133, light grey
0 - 85 cm: LIMESTONE, (non intact 78 - 83), sandy, muddy, w. vertical fracture 71 - 79, light grey
fracture 87 - 107, dark grey
110 - 150 cm: LIMESTONE, sandy, muddy, light grey
0 - 105 cm: LIMESTONE, sandy, muddy, w. dark grey flint 47 - 56 and 71 - 76, w. vertical fracture 73 - 123, w. vertical calcite filled fracture 110 - 122, light grey
105 - 130 cm: FLINT, w. vertical fracture 107 - 117, grey
130 - 150 cm: LIMESTONE, (non intact 130 - 140), sandy, muddy, w. grey flint parts 130 - 140, light grey
0 - 15 cm: FLINT, w. vertical fracture 0 - 15, grey
15 - 65 cm: LIMESTONE, sandy, muddy, w. vertical fractures 15 - 65, light grey
0 - 80 cm: LIMESTONE, (non intact 66 - 73), sandy, muddy, w. vertical fracture 24 - 28, w. grey flint parts 38 - 57, bioturbated, w. burrows 0 - 37, light grey
0 - 135 cm: LIMESTONE, (non intact 0 - 20 and 40 - 45), sandy, muddy, bioturbated, w. burrows 50 - 110, light grey
0 - 140 cm: LIMESTONE, (non intact 8 - 13 and 137 - 140), sandy, muddy, w. vertical fracture 14 - 20 and 65 - 72, bioturbated, w. burrows 18 - 90, light grey
0 - 95 cm: LIMESTONE, sandy, muddy, bioturbated, w. flint


400
400
80
80
Y12
Y12-han kobling
Plade S355 ø400x50mm
Dæklag mod stålplade 20mm
Fugebånd type 1 7x25mm
i klæber type 1
2. udstøbning B35A
2
2
8 bjl. Y12 i BR
ø90 stålrør påsvejst plade
Fugebånd type 1 3x20mm
klæber type 1
1. udstøbning B35A
U-bjl. Y12 4x1
Y12 -Hun kobling i
klæbemasse sætte dybde
150 mm, se detalje 2
100
100
50
200
80
100
300
U bjl. Y12
stødlængde 500mm
Fugebånd type 1 7x25mm
i klæber type 1
Rubber packer
Afproppes under overside bundplade
Dobbelt flange ø320
Gummipakning
Klæbeanker
Hul i eksist. bundplade
Eksist. armeret bundplade
Dobbelt korrosionsbeskyttet jordanker
m. liner og fri ankerlængde

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Separering af opborede materialer

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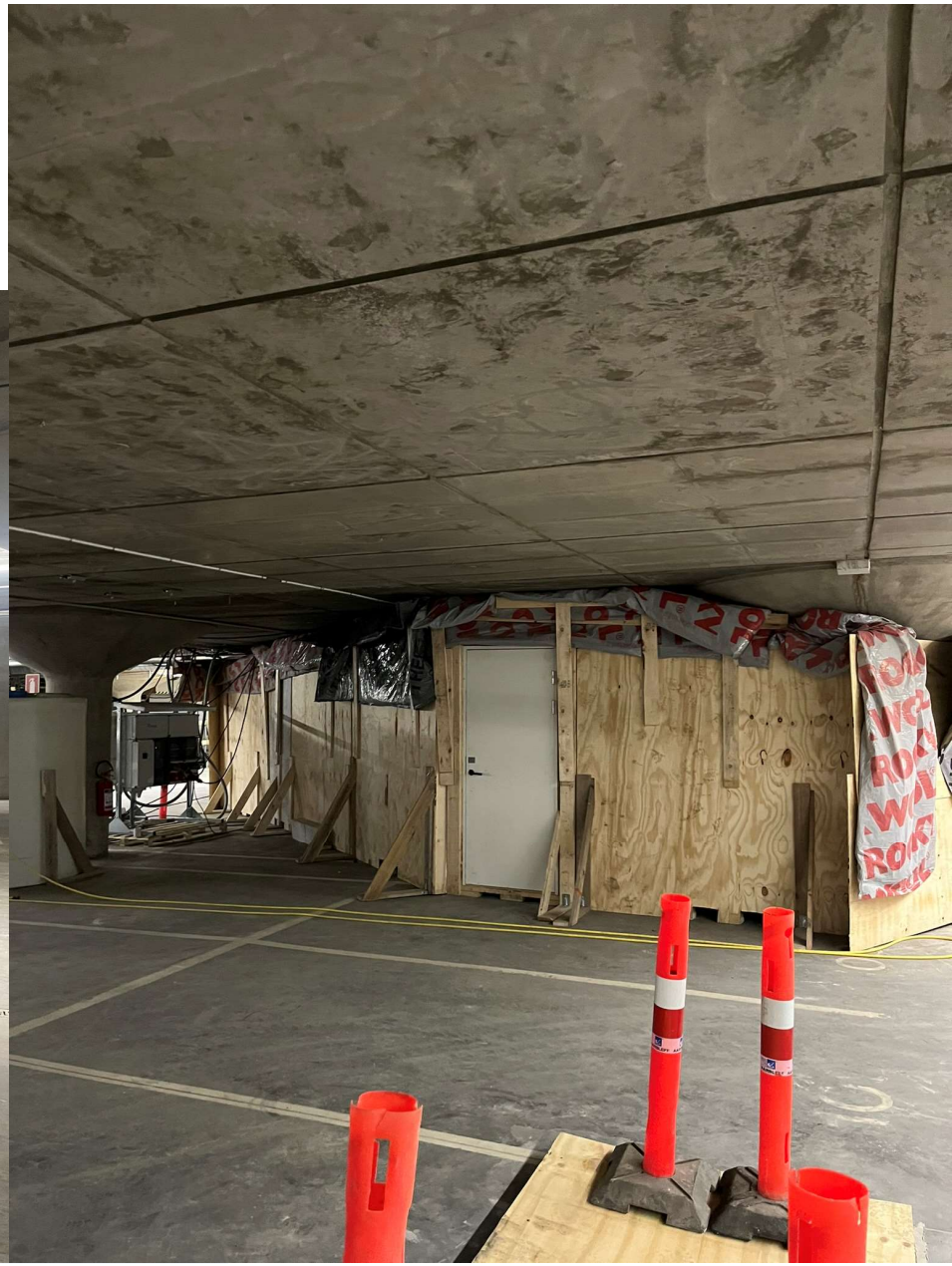
Exoskeletter

Støjreducerende tiltag



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