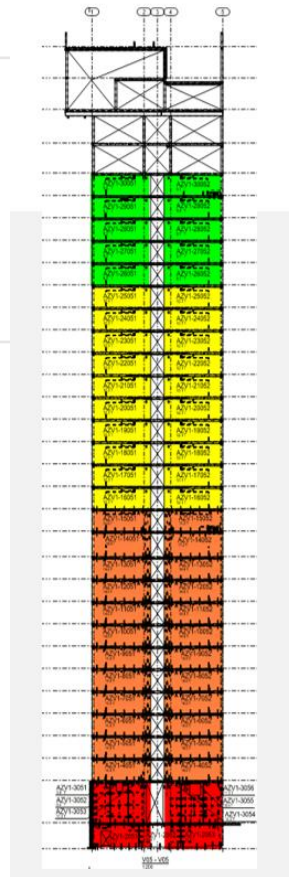


Höga byggnader – Konceptuell design-tät stadsmiljö

Anders Klittmar, PE Teknik & Arkitektur

- Begränsad footprint - omgivningspåverkan
- Slanka byggnader/rörelser-human comfort
- Samverkan grundläggning-överbyggnad
- Logistik

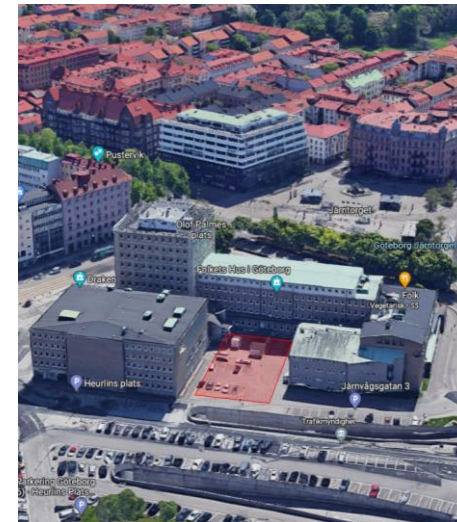
GRUND+ÖVERBYGGNA
D



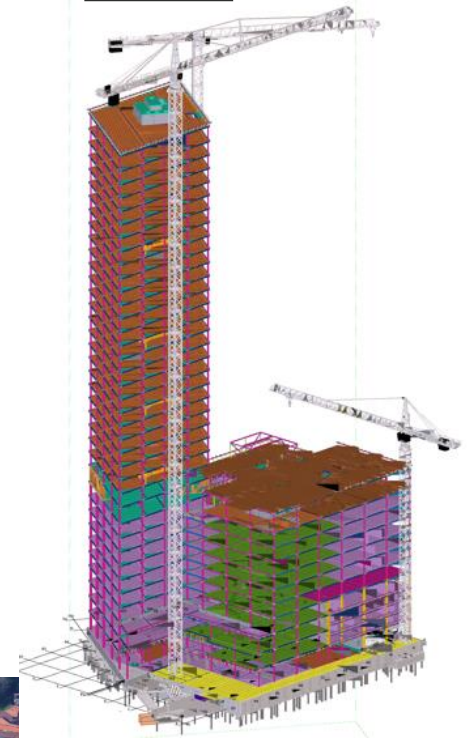
SLANKT



TRÅNGT



LOGISTIK



Höga byggnader i bagaget

KISTA SIENCE TOWER 123
M



VICTORIA TOWER 118
M

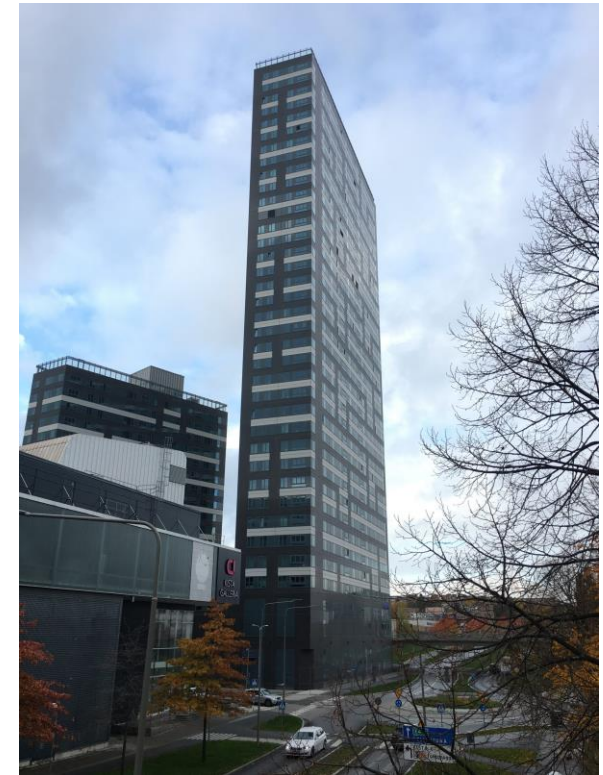


GLOBAL BUSINESS GATE 100
M +

KAJEN 5-6 CA 80
M



KISTA TORN 120 M



HUR BLEV DET ?

Kronjuvelen 80 m
27 våningar



CityGate 144 m
36 våningar



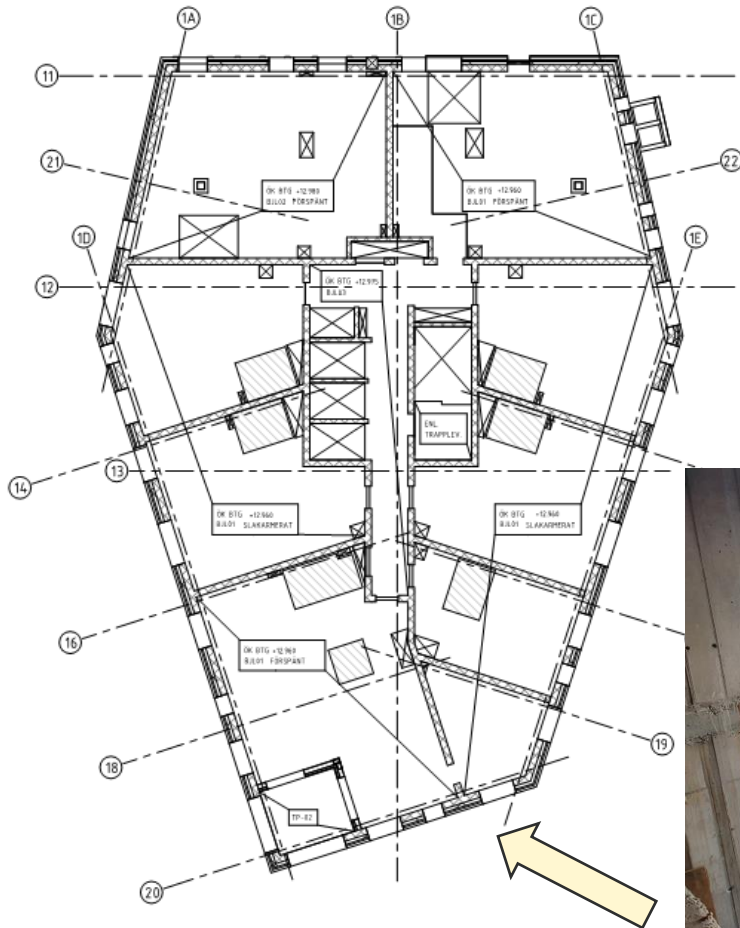
Hotel Draken 104 m
33 våningar



KRONJUVELEN 80 M -OMGIVNING



KRONJUVELEN - STRUKTUR



PREFAB-BETONG

- SW-väggar
- Lokaler stålstomme

PREFAB- BETONG

- Innerväggar- 300-200 mm
- SW innerskiva 300 -200 mm
- RD/F 230+30

PLATSGJUTET

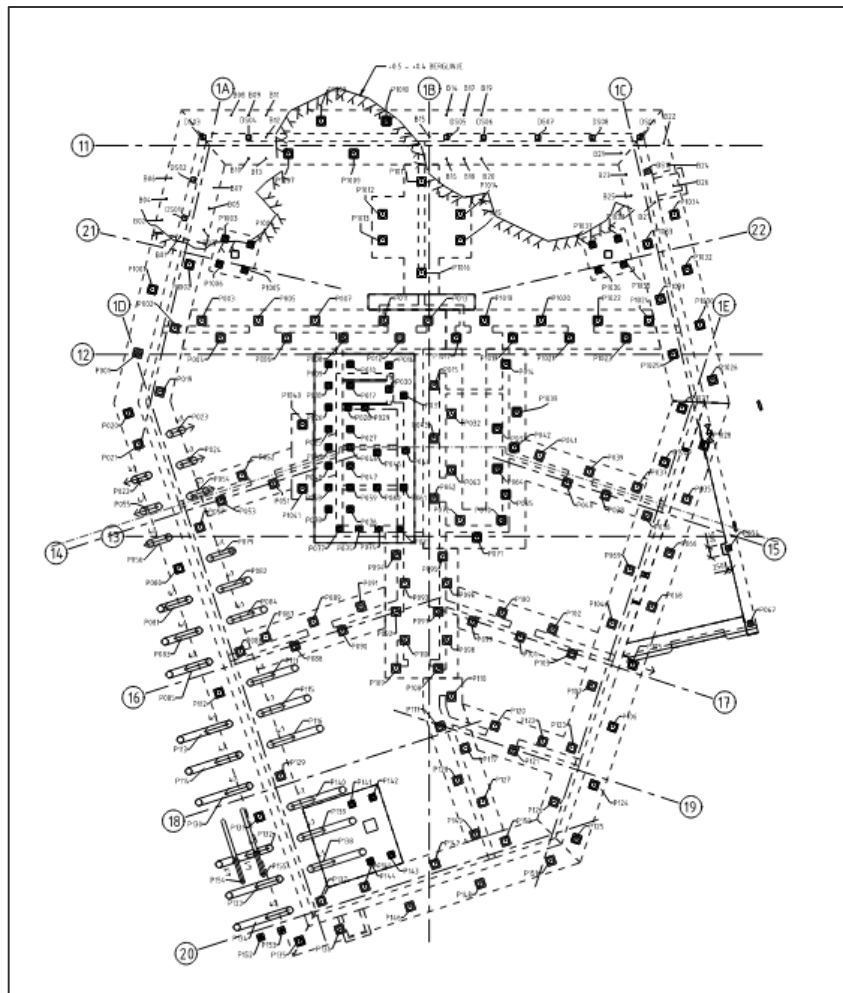
- YV -350 mm
- IV -300 mm
- Plattbärlag 300 mm

PÅLAR

- Borrade stålrörspålar RD320



KRONJUVELEN - GRUNDLÄGGNING



PREFAB-BETONG
/PLATSBYGGT

PREFAB-
BETONG

PLATSGJUT
ET

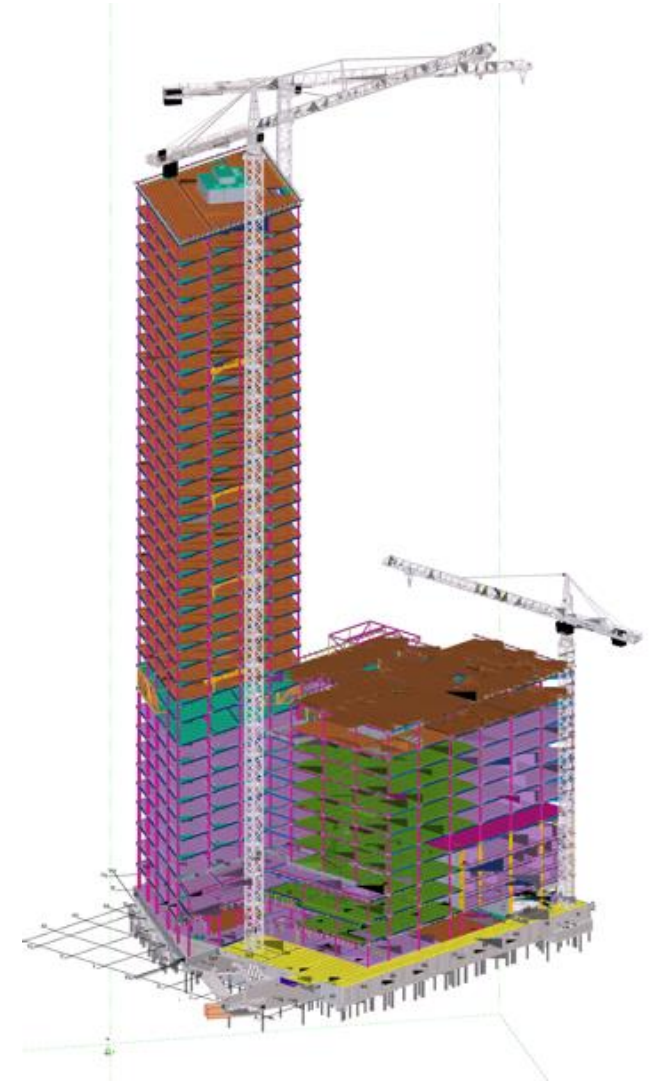
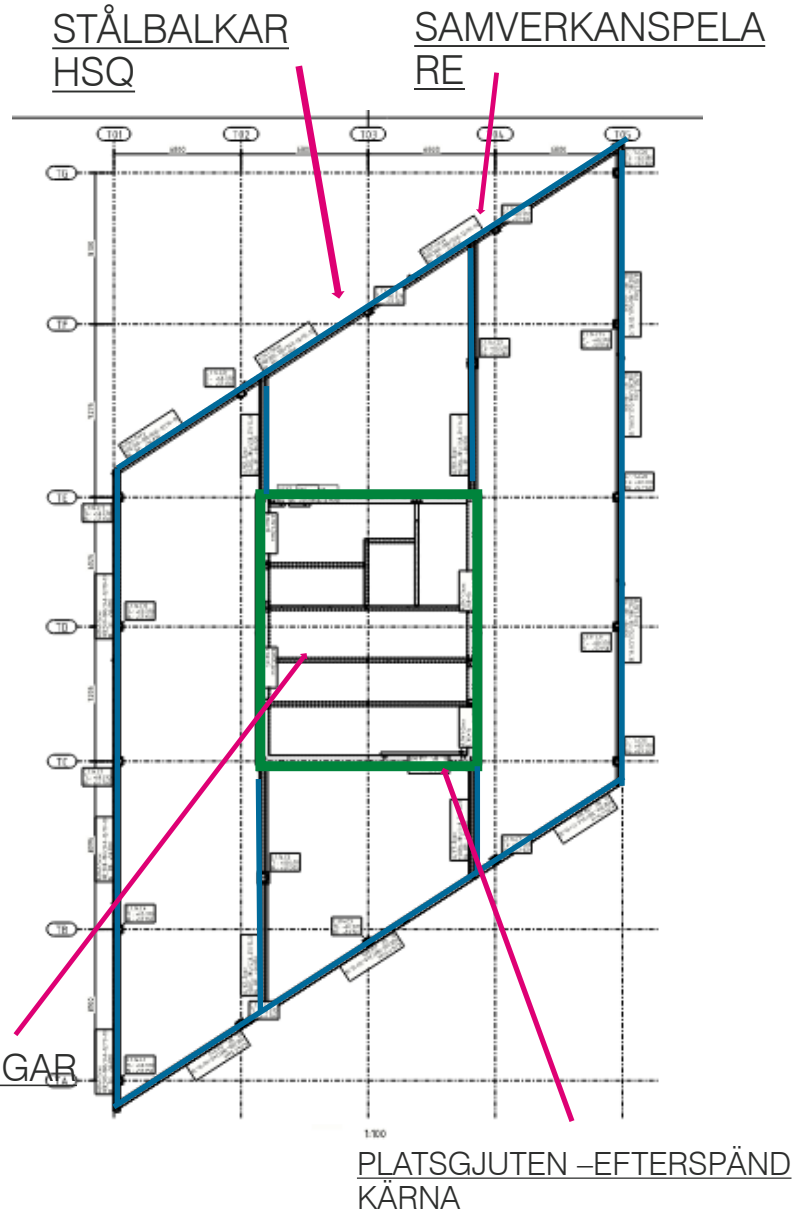
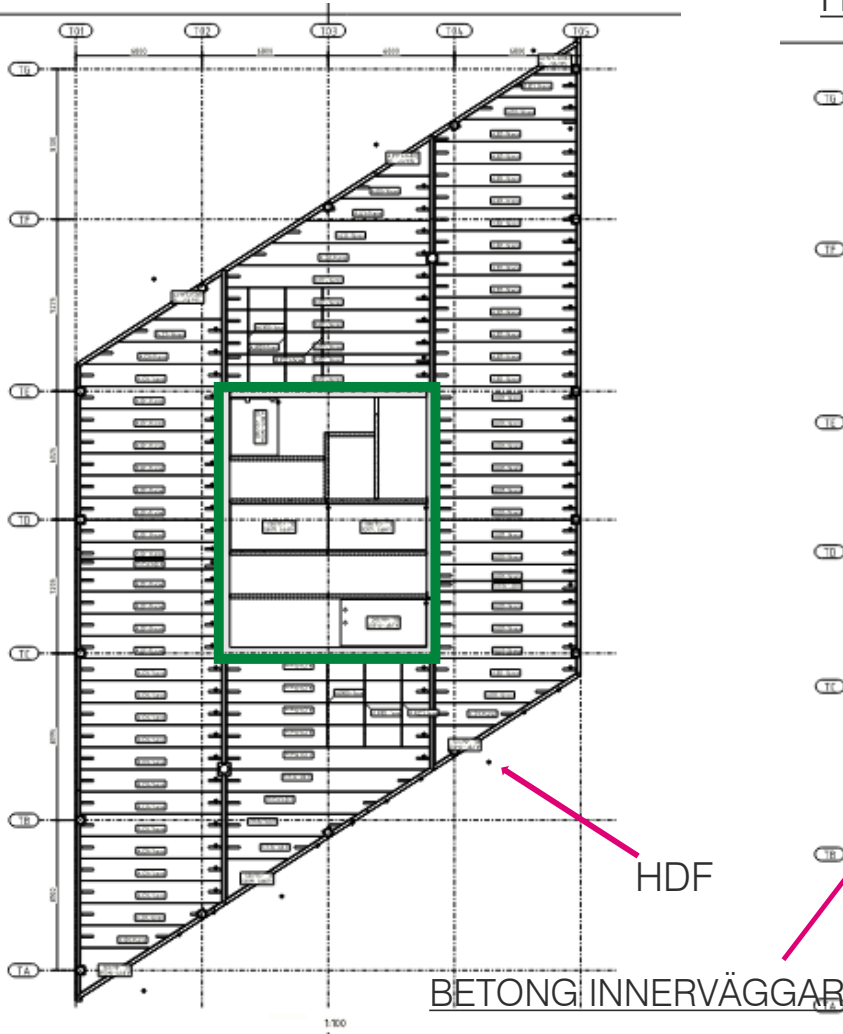
BORRADE
STÅLRÖRSPÅLA
R



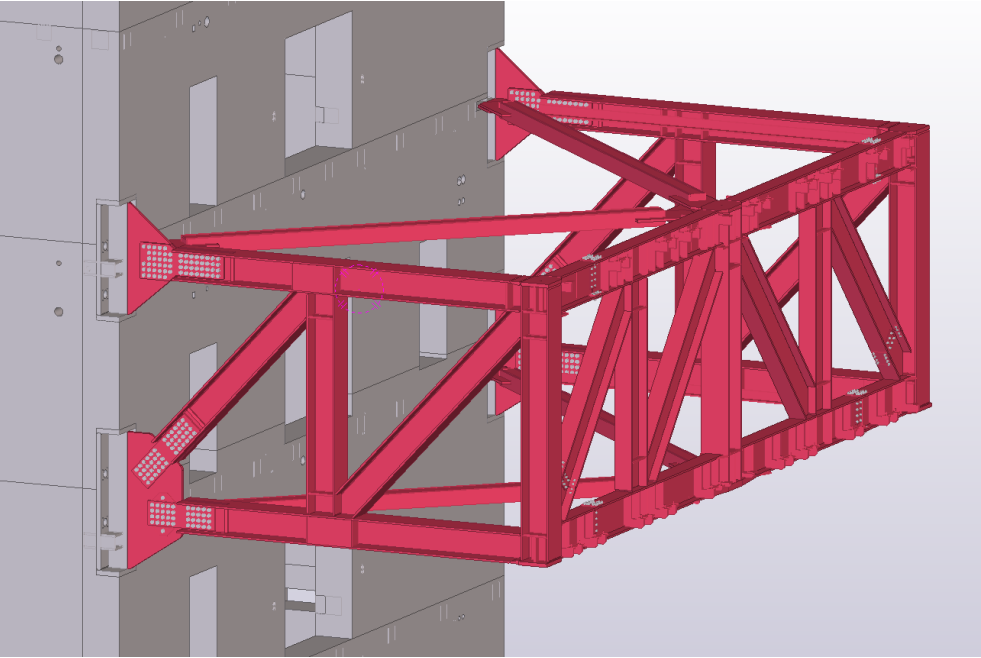
CITYGATE 144 M - OMGIVNING



CITYGATE - STRUKTUR

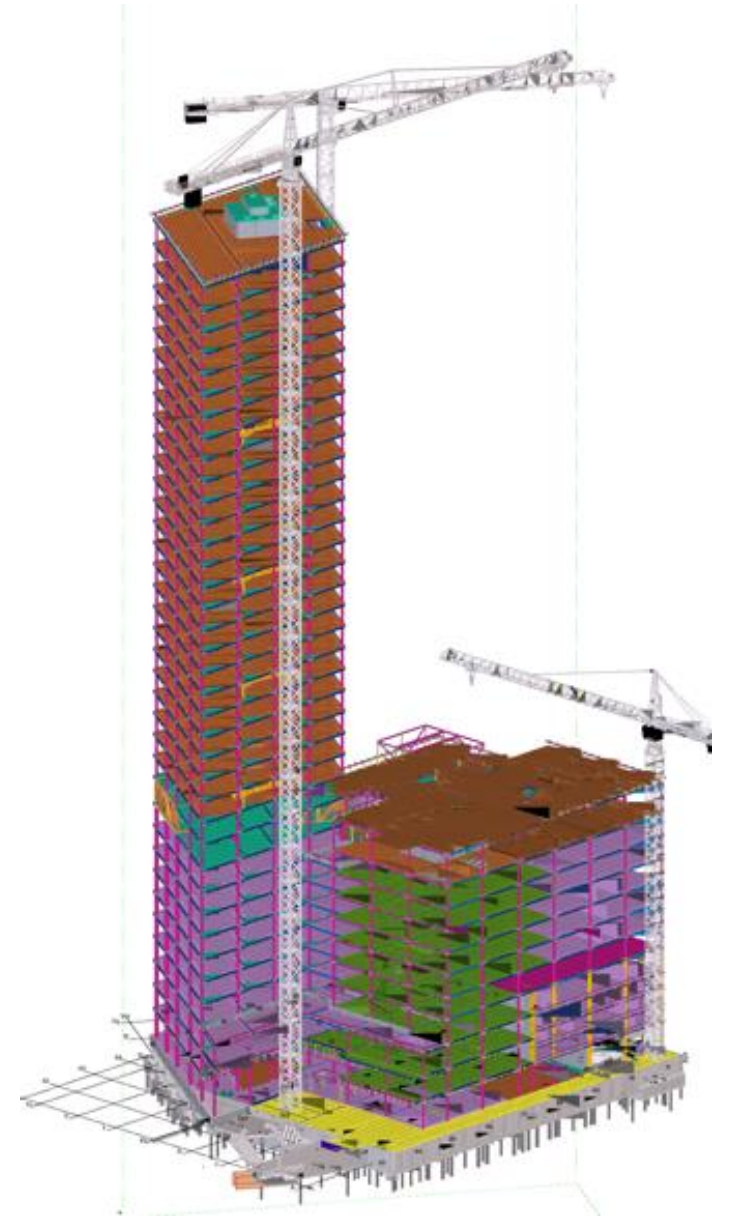
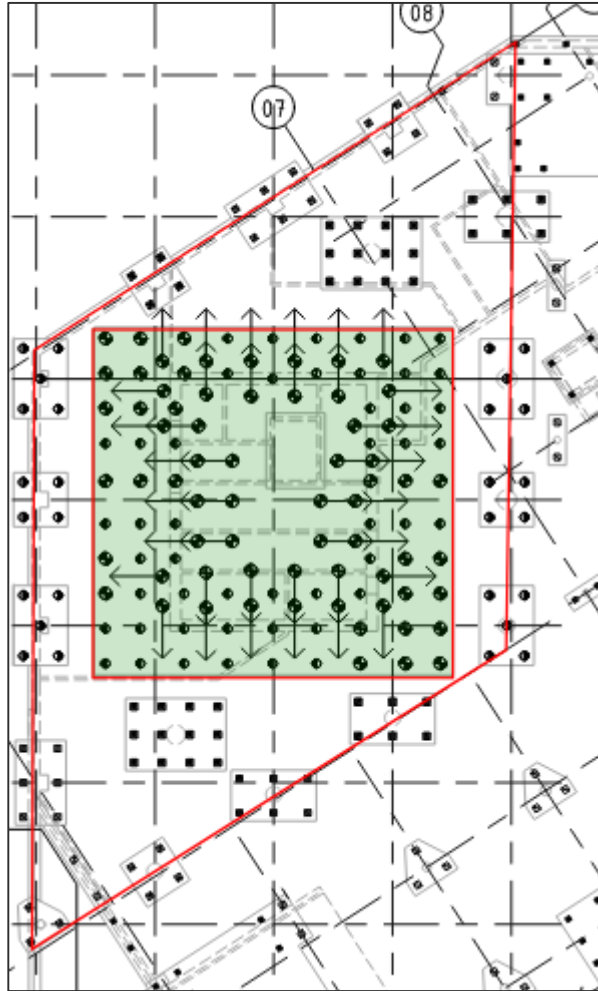


CITYGATE - STRUKTUR



CITYGATE - GRUNDLÄGGNING

- BETONGPÅLAR 350- 3MN
- GROVA STÅLRÖRSPÅLAR D 500-3 MN, D700-6 MN
- 50 M LERA – 20 M FRIKTIONSLAGER



CITYGATE – HUMAN COMFORT



(c) Incoming wind from 125°.



(d) Incoming wind from 170°.

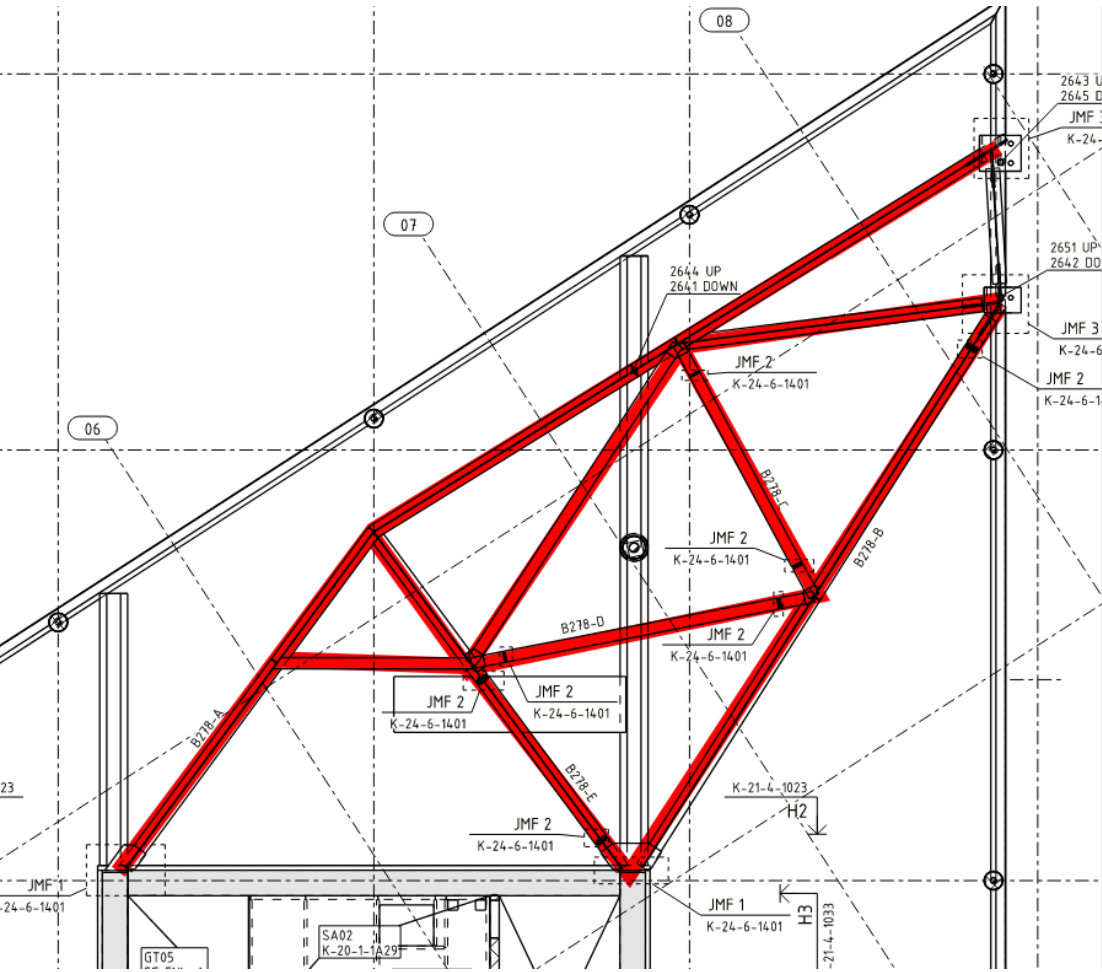


(e) Incoming wind from 193°.

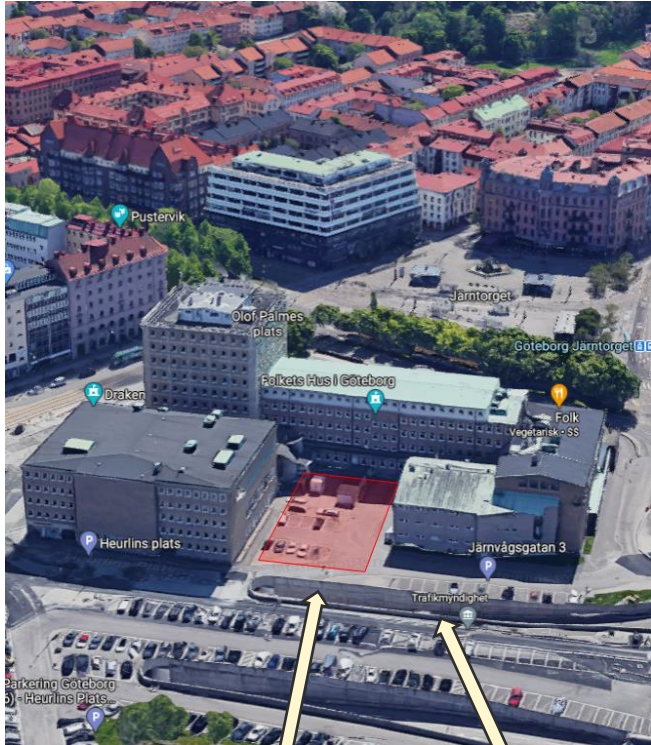


(f) Incoming wind from 215°.

CITYGATE – LOGISTIK

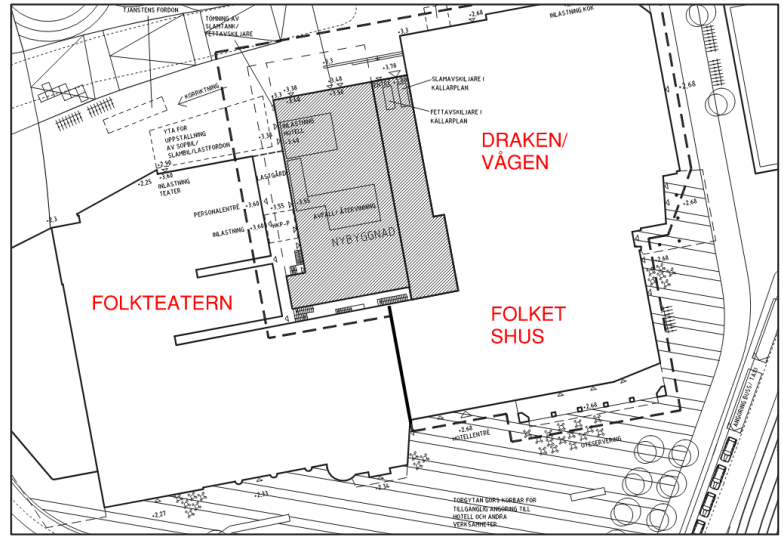


DRAKEN 104 M -OMGIVNING



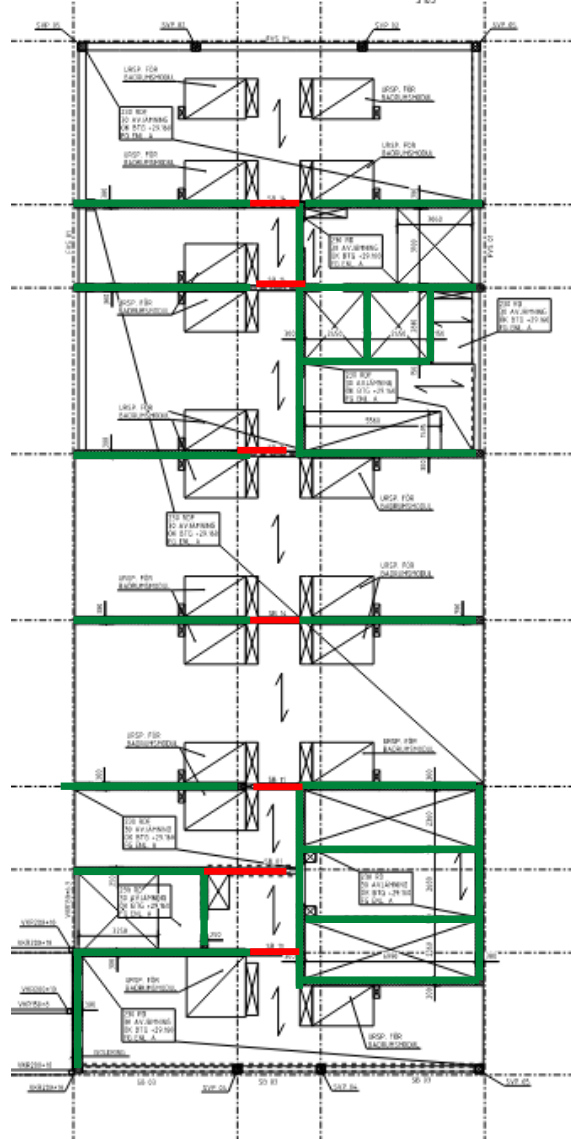
Överdäckning
Götatunnel

Omläggning
bussgata



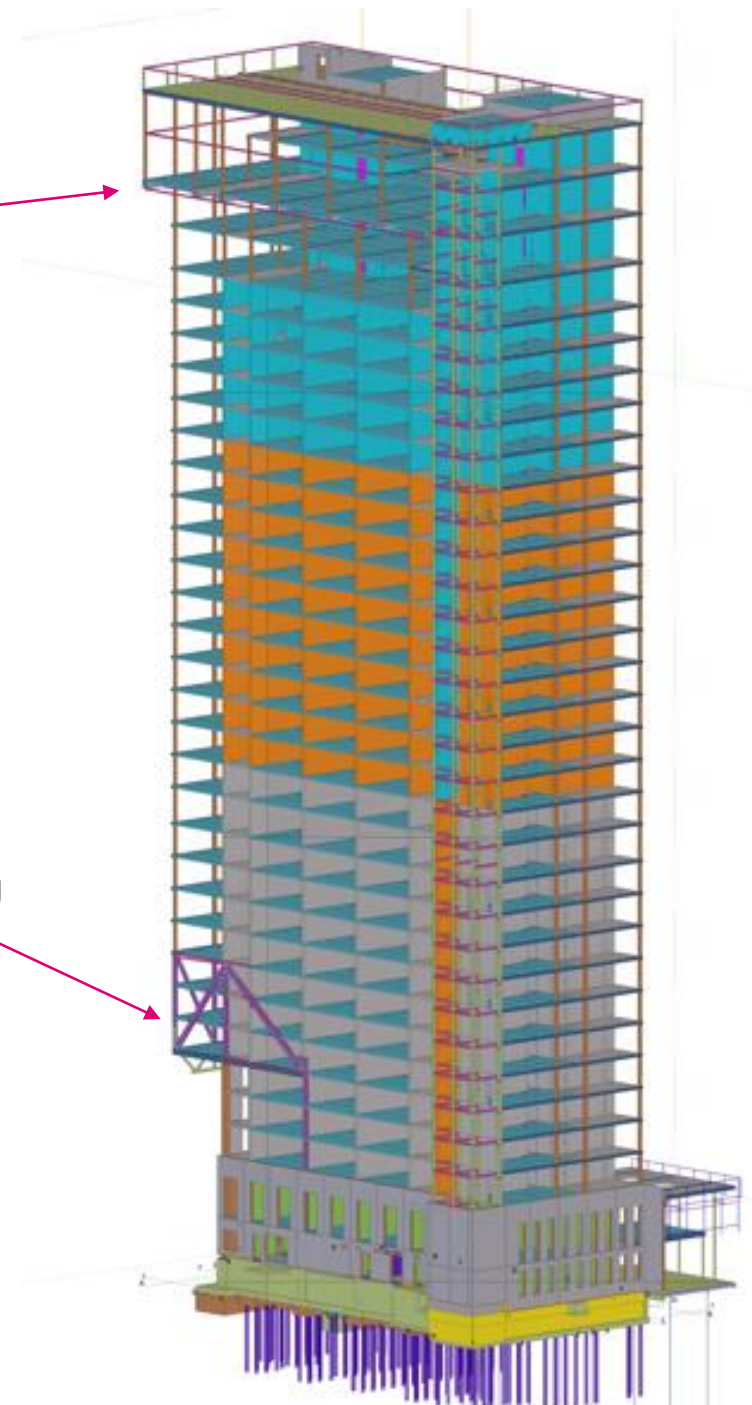
HOTELL DRAKEN - STRUKTUR

- SAMVERKANSPELARE
- BETONGVÄGGAR
- STÅLBALK HSQ
- SKJUVBALKAR
- FÖRSPÄNDA MASSIVA PLATTOR RD/F 230+30



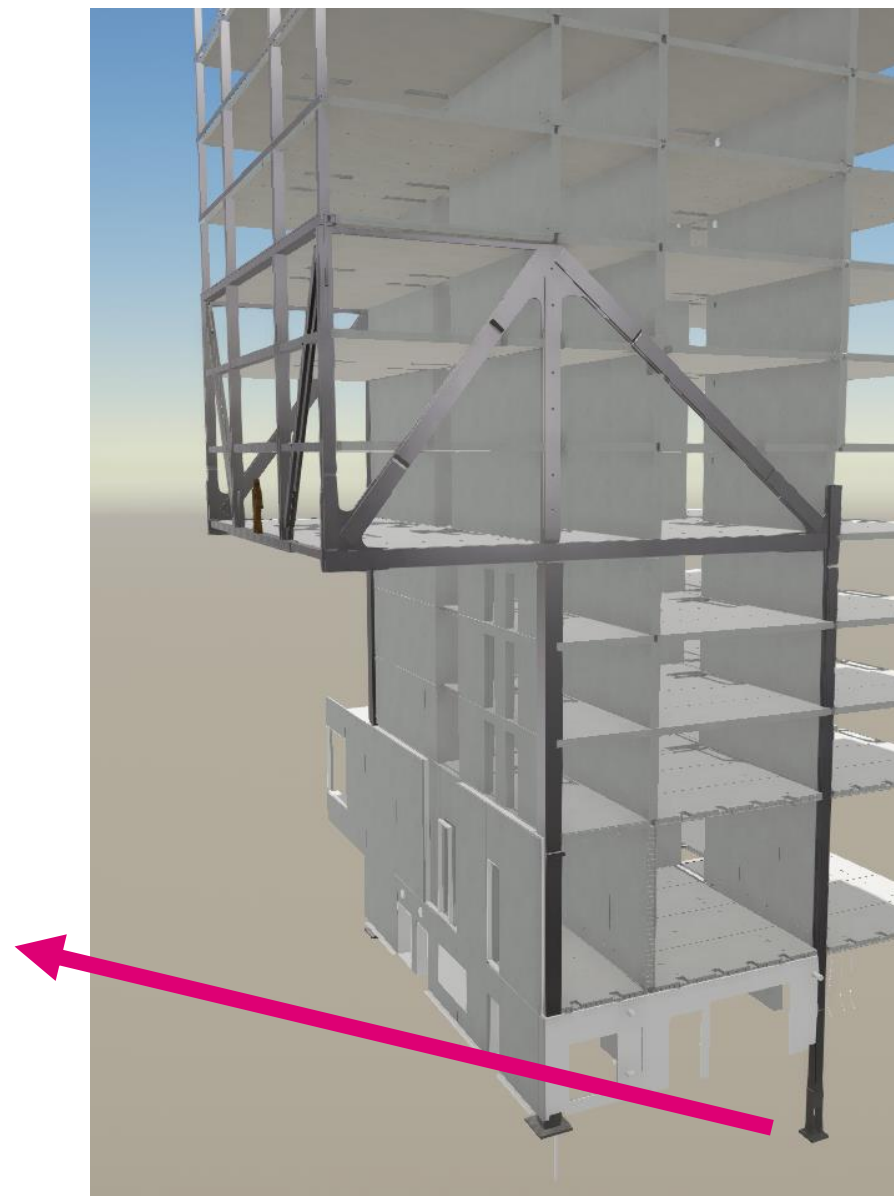
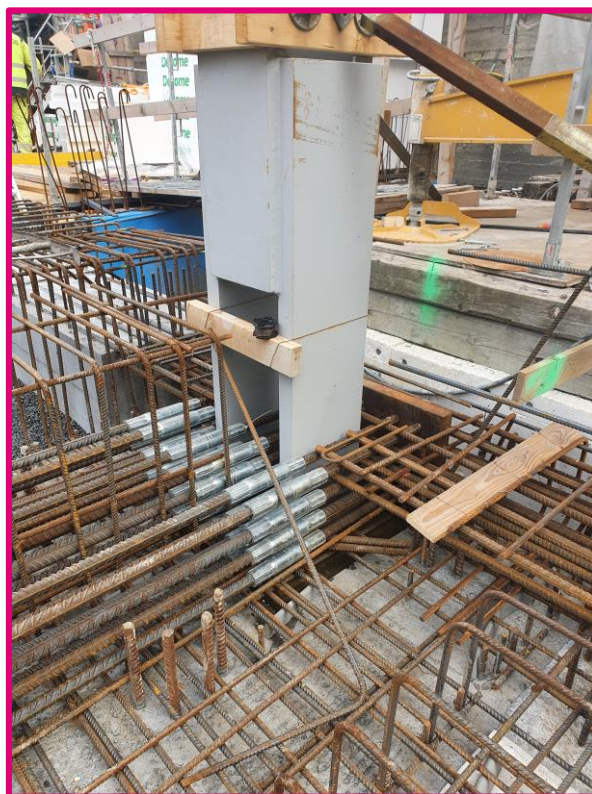
Utkragning

Utkragning



HOTELL DRAKEN - STRUKTUR

- 7 m utkragning
- 28 våningar
- 22 MN i tryck
- 8 MN i Drag



HOTELL DRAKEN - STRUKTUR

- 15 -20 % mindre vindlast
- 50 % lägre acceleration



(c) Incoming wind from 125°.



(d) Incoming wind from 170°.

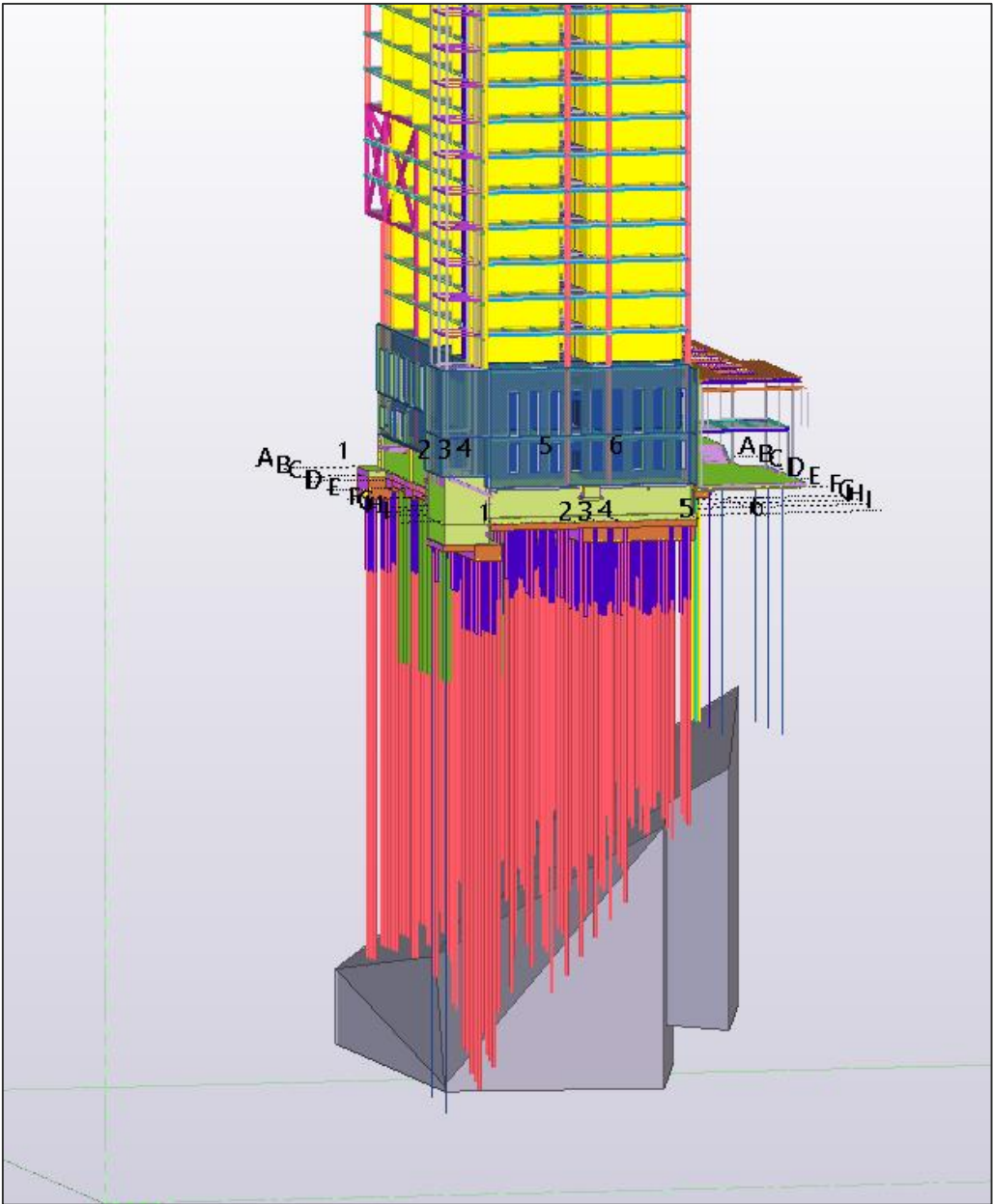
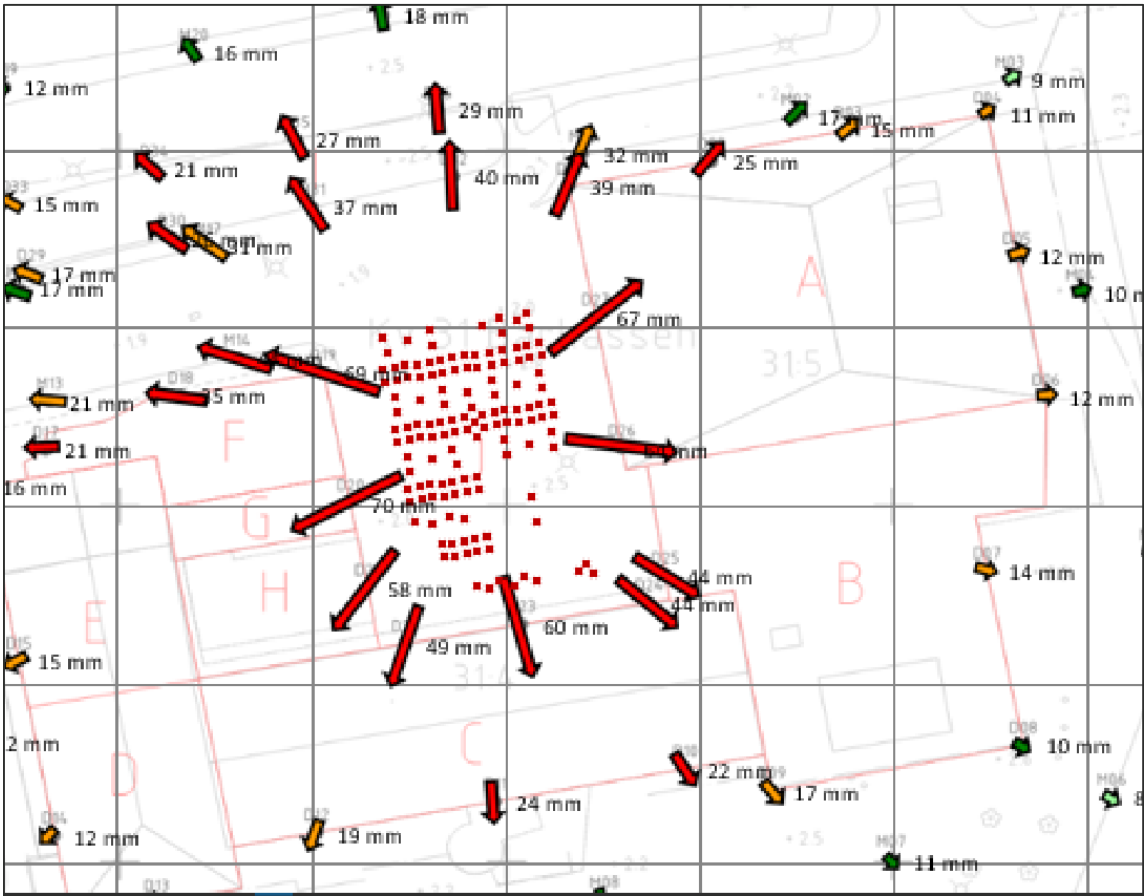


(e) Incoming wind from 193°.



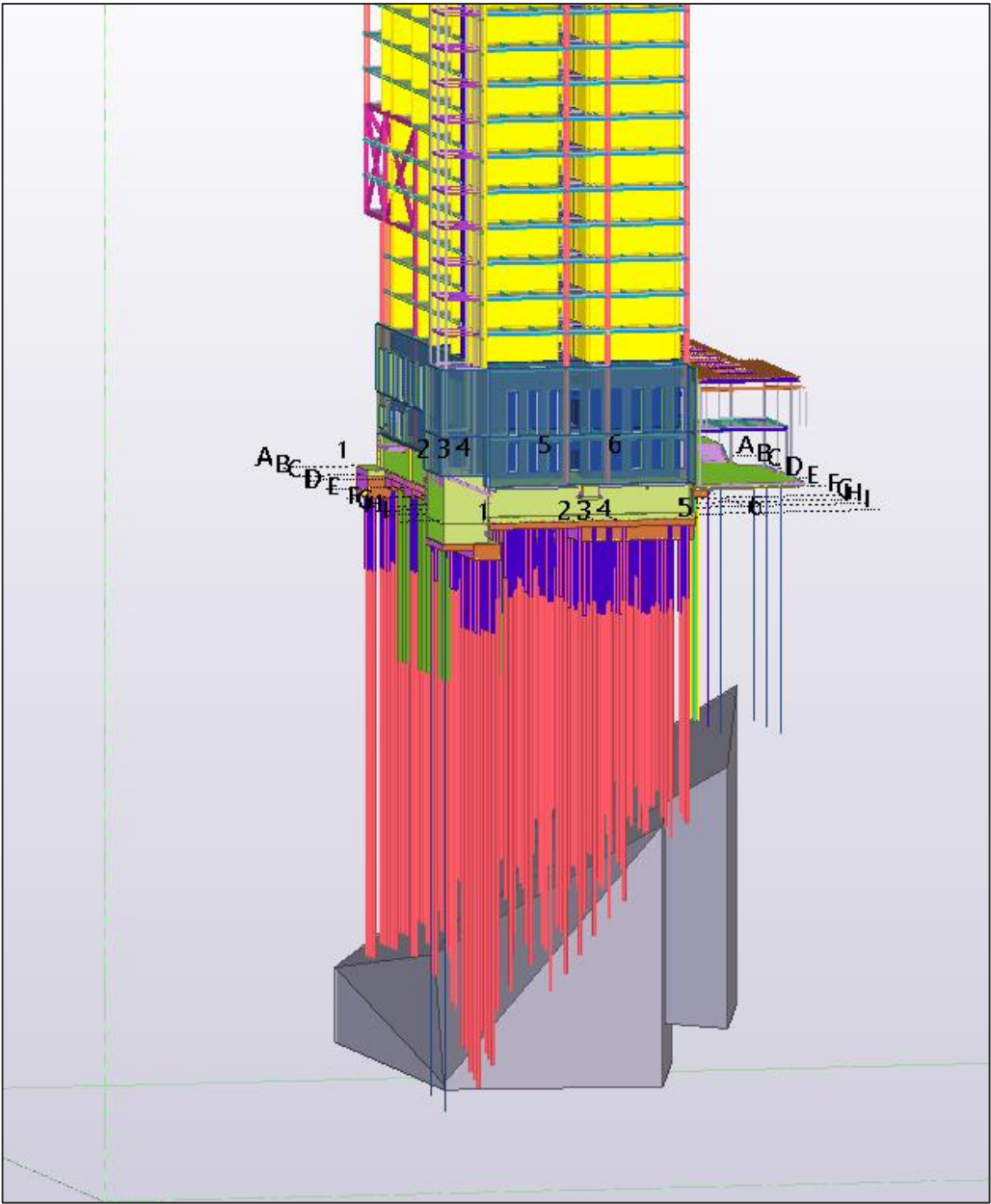
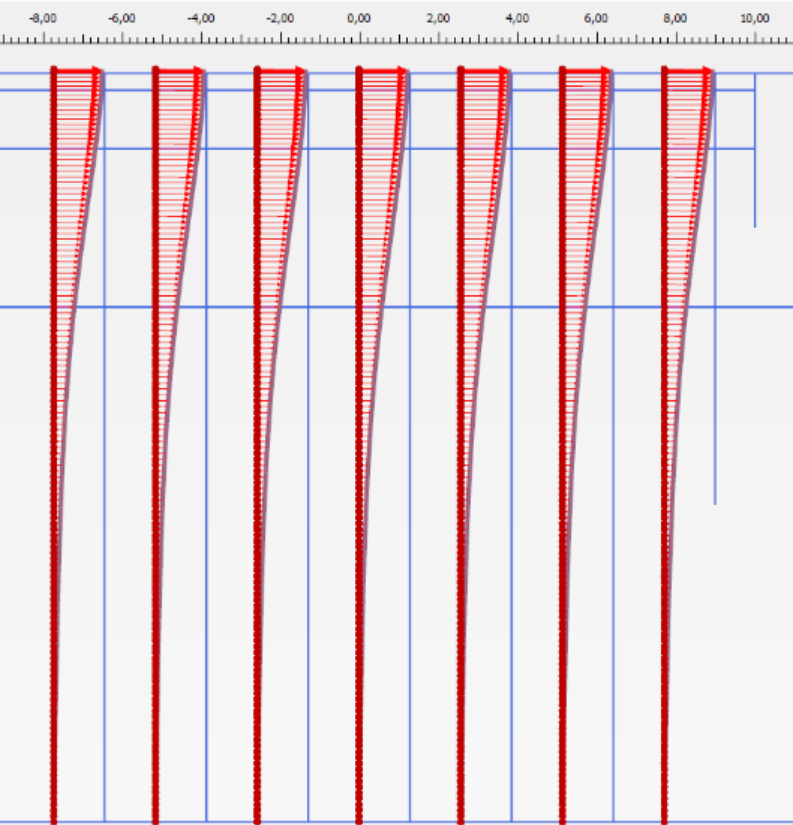
(f) Incoming wind from 215°.

HOTELL DRAKEN - GRUNDLÄGGNING

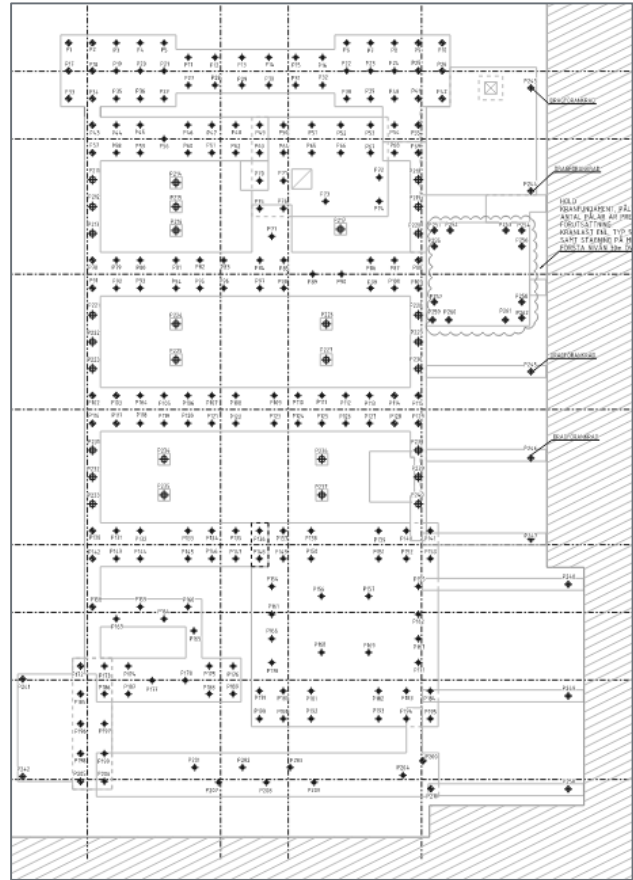


HOTELL DRAKEN - GRUNDLÄGGNING

DEFORMATIONSANALYS
PÅLAR/JORD- PLAXIS



HOTELL DRAKEN - GRUNDLÄGGNING



BORRAD
BETONGFYLLD
STÅLRÖRSÅLE RD
320

