

Verbouwing Openbare Bibliotheek, Amsterdam

The image shows the interior of the Openbare Bibliotheek Amsterdam during its renovation. The space is bright and modern, with a polished wooden floor. In the foreground, a white reception desk is staffed by two people, with a man standing and talking to them. To the right, a wide, white staircase with a black metal railing leads up. A large, artistic wall panel featuring a woman's face and the text 'Innovation is mei 2 sept' is positioned next to the stairs. In the background, there are bookshelves and more people browsing. The ceiling is white with recessed lighting, and the walls are also white, with some text visible on the upper level.

Joost Lauppe, Senior Structural Engineer

TEAM

Centrale Openbare Bibliotheek Amsterdam

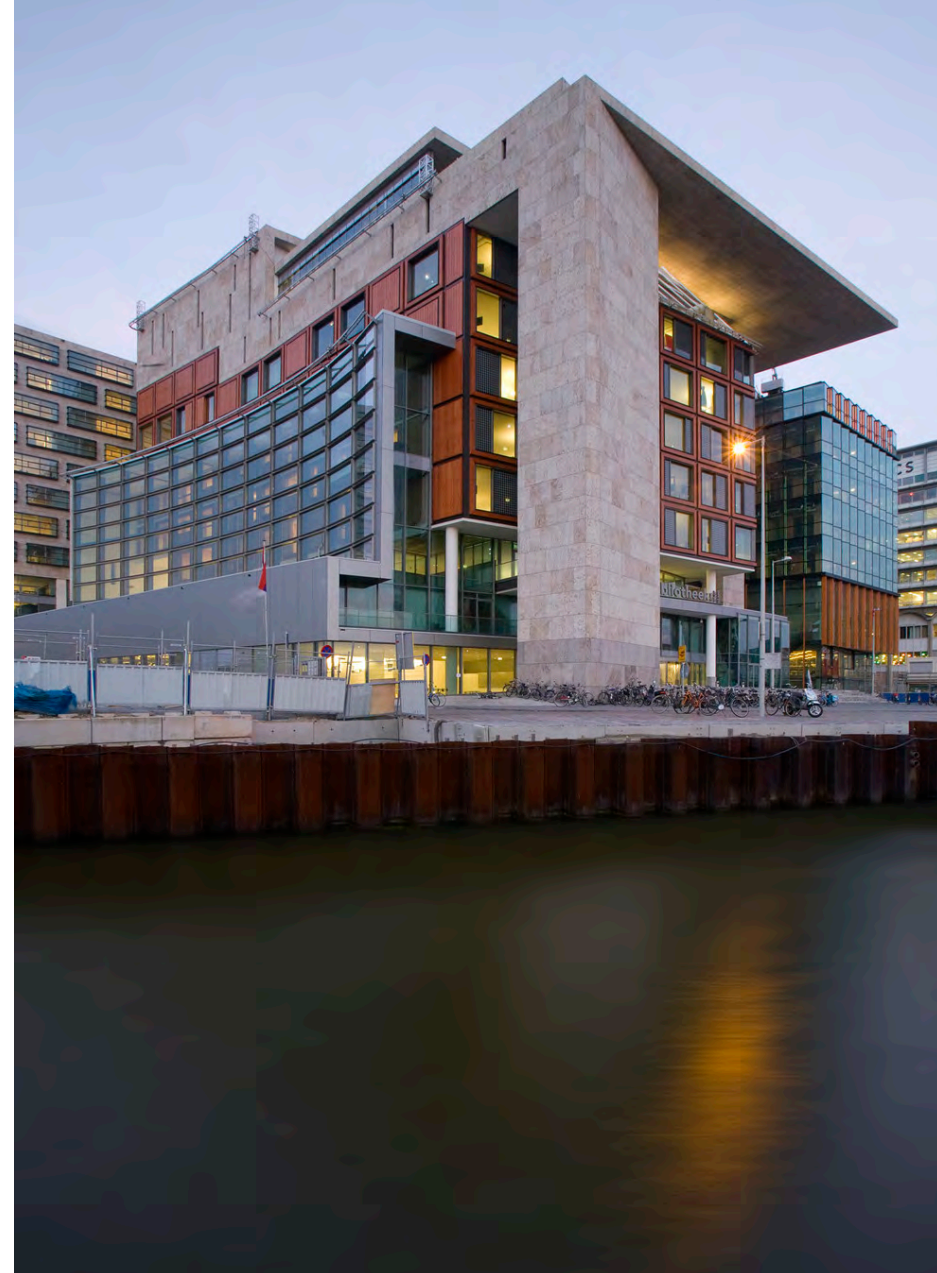
Klant

Jo Coenen

Architect

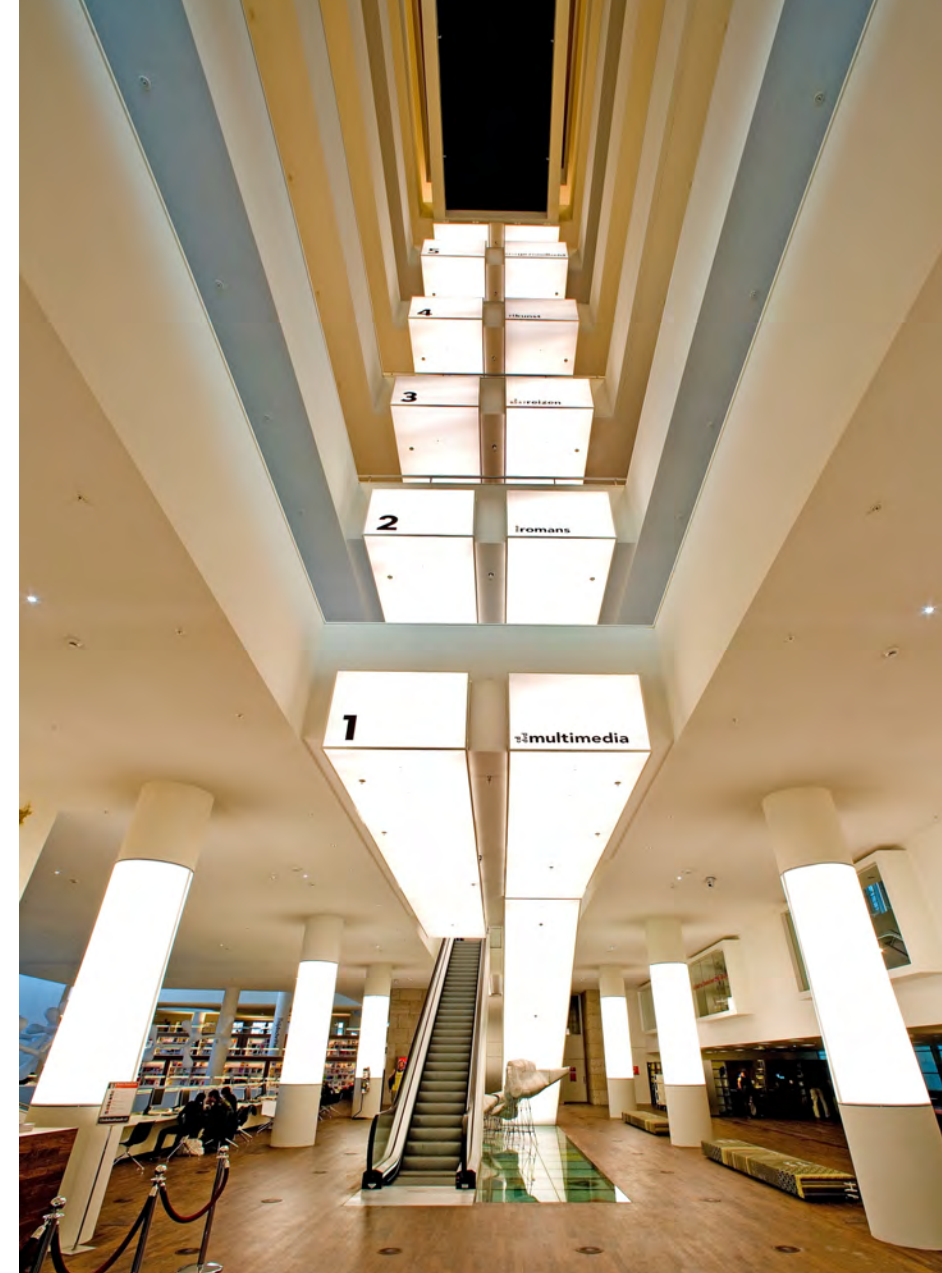
Arup

Advies



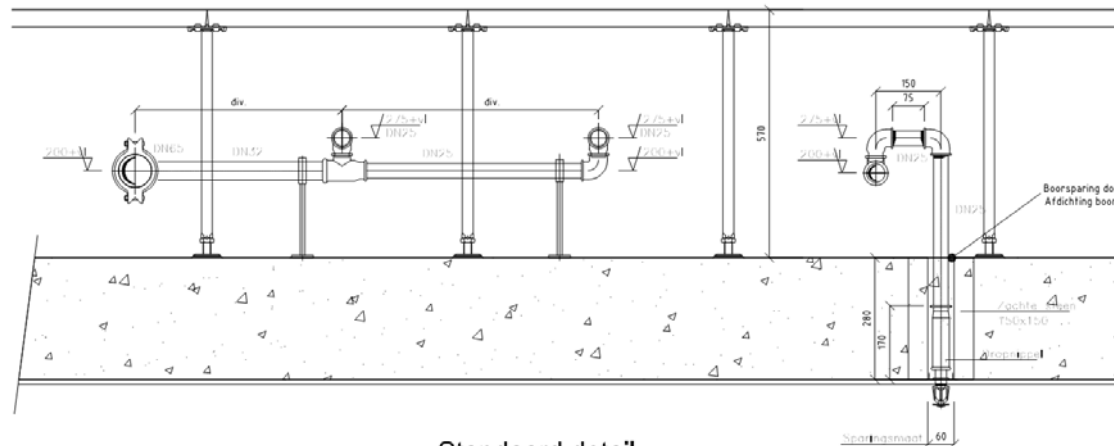
‘Verruimen, verbeteren & verbinden’

- Entree gebied
 - Routing
- Zaal capaciteit
- Werkplekken
- Grand cafe

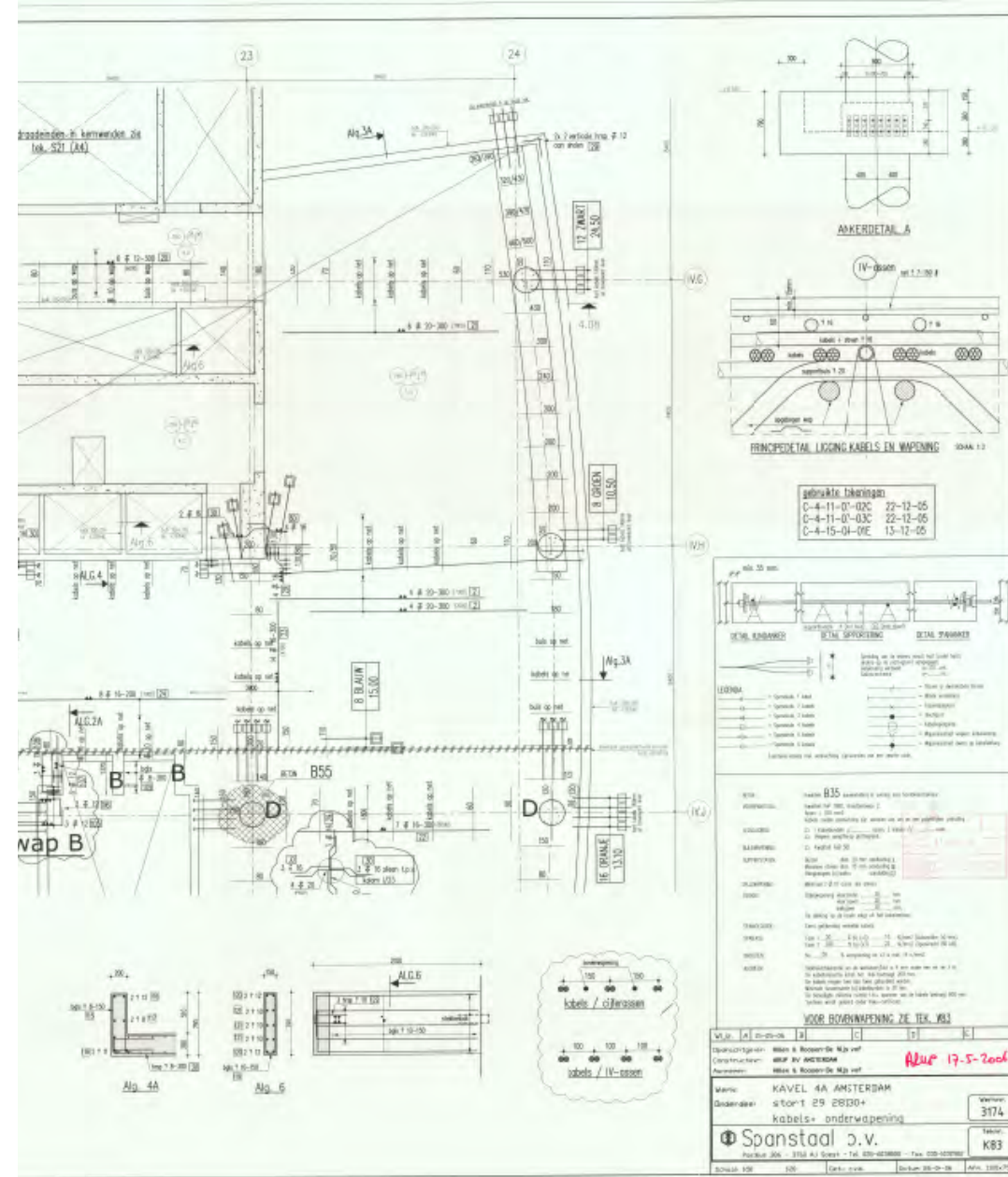


ONTWERP

- Sparingen in voorgespannen vloeren
- Nieuwe trappen & vloeren
- Nieuwe belastingen
- Coördinatie met installaties en voorspanning!

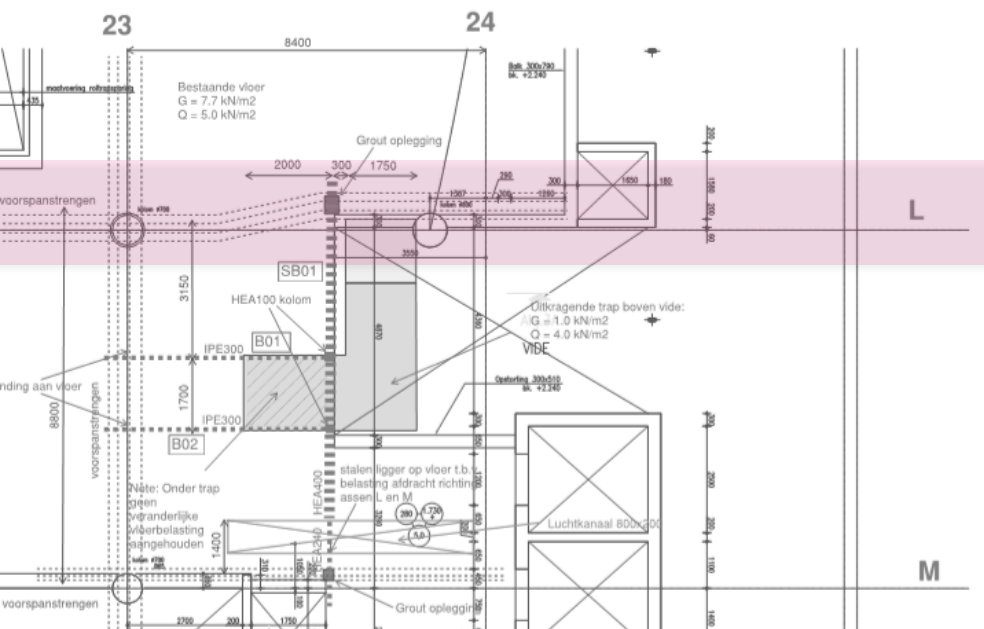


Standaard detail
sprinklerleiding in de computervloer
schaal 1:10



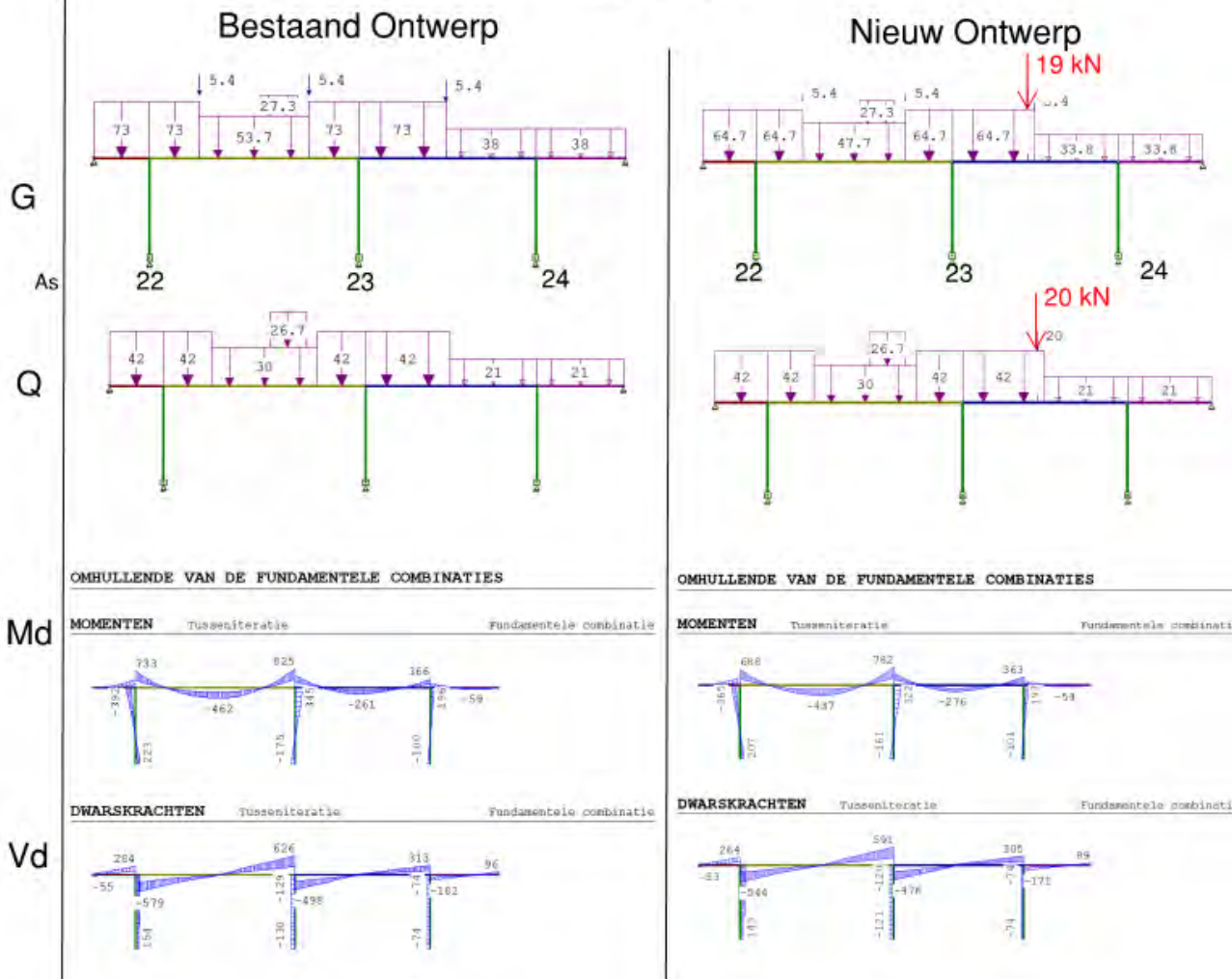
AANPAK

- Typische vergelijking bestaand en nieuw ontwerp op voorgespannen vloer



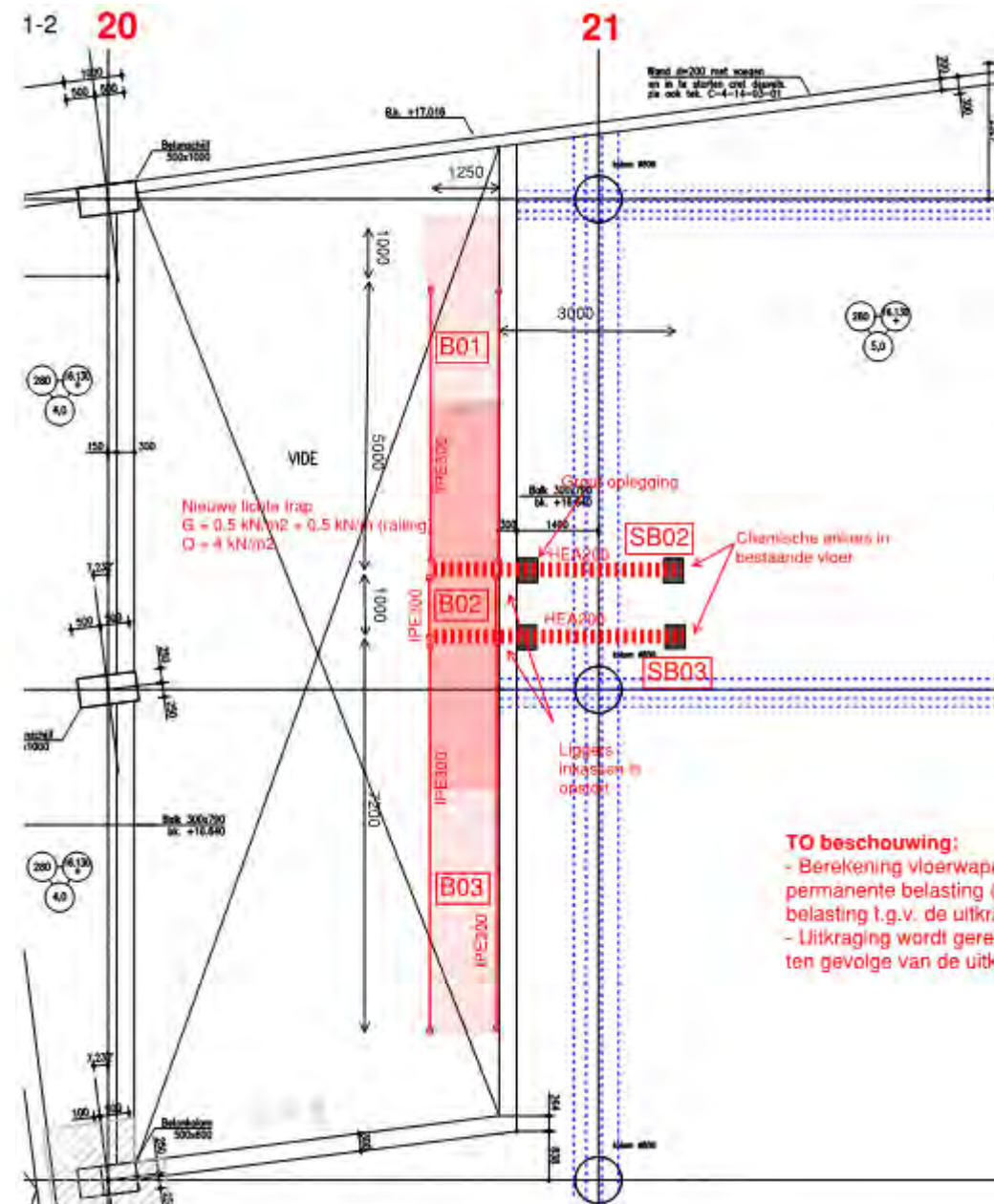
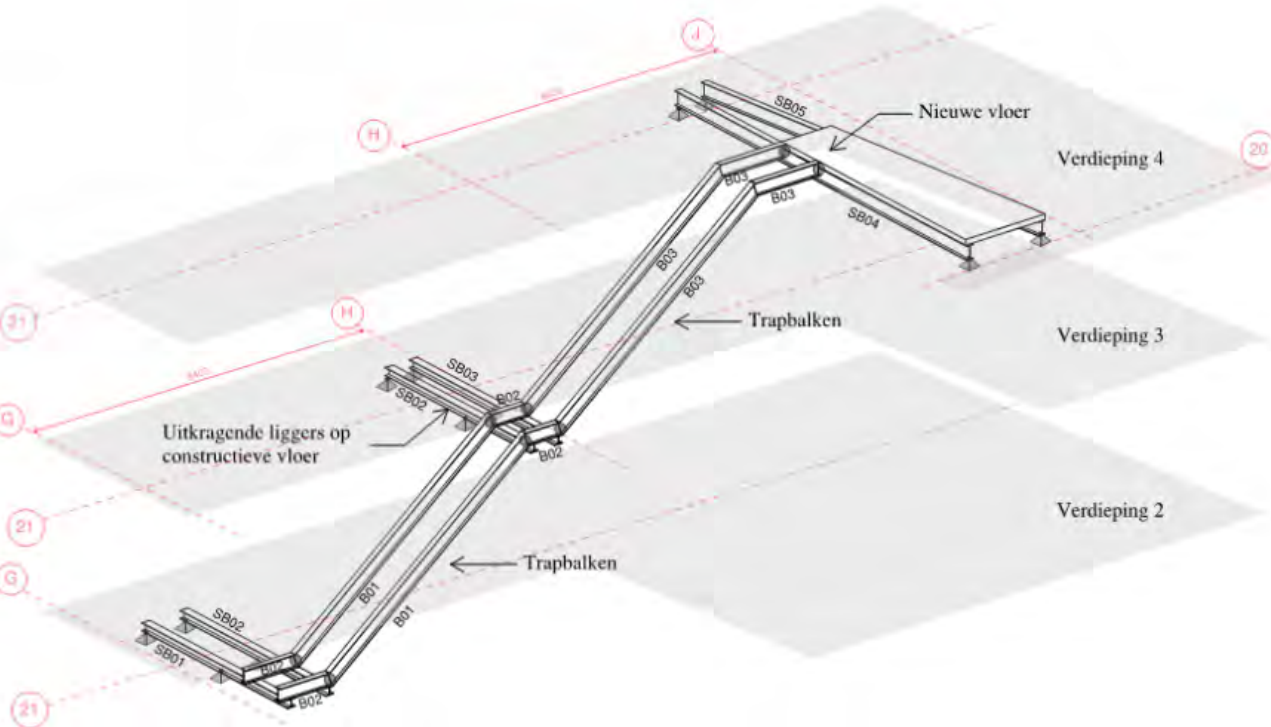
Strook As L

3-2

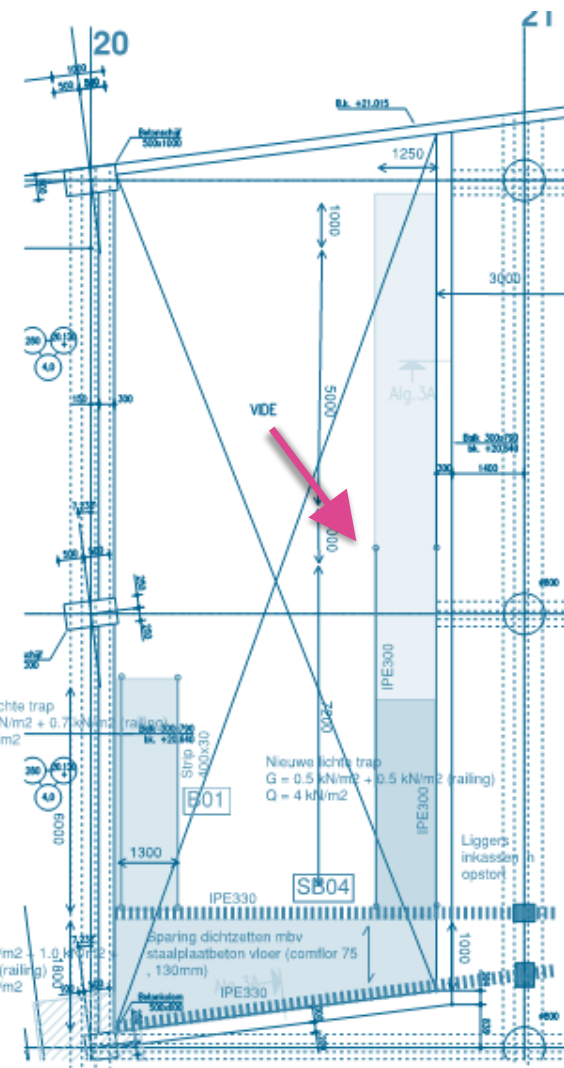


TRAP 234

- Uitdagingen:
 - Uitkragende liggers vanaf vloer
 - Verankeren buiten voorspanstrook
 - Uitvoering

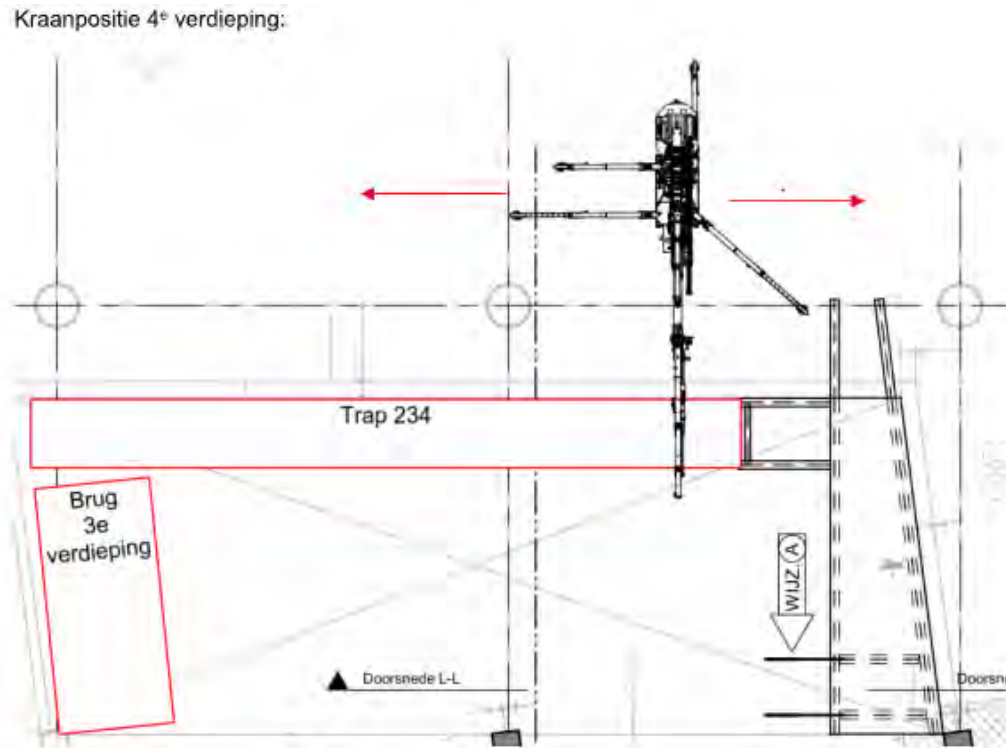


TRAP 234



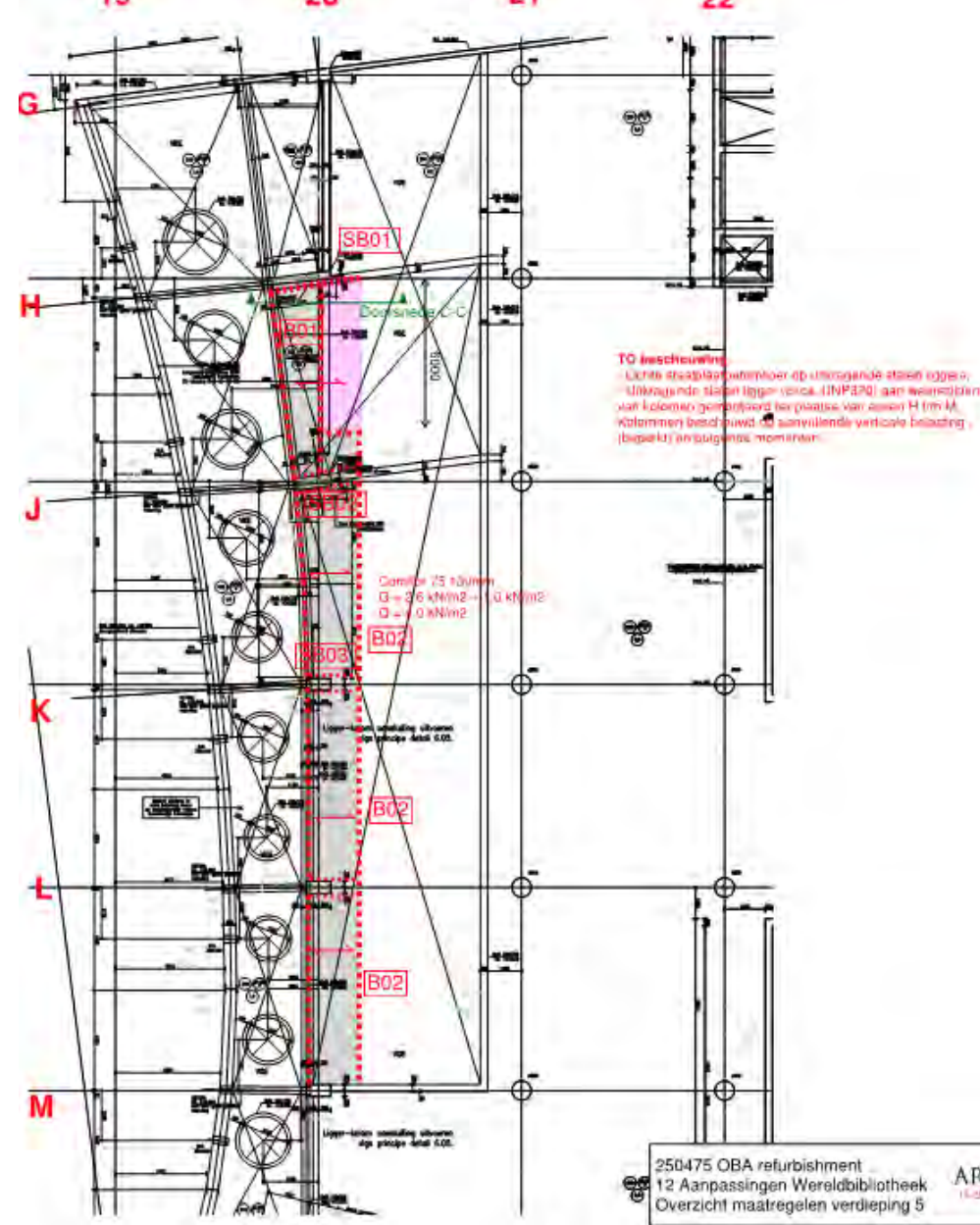
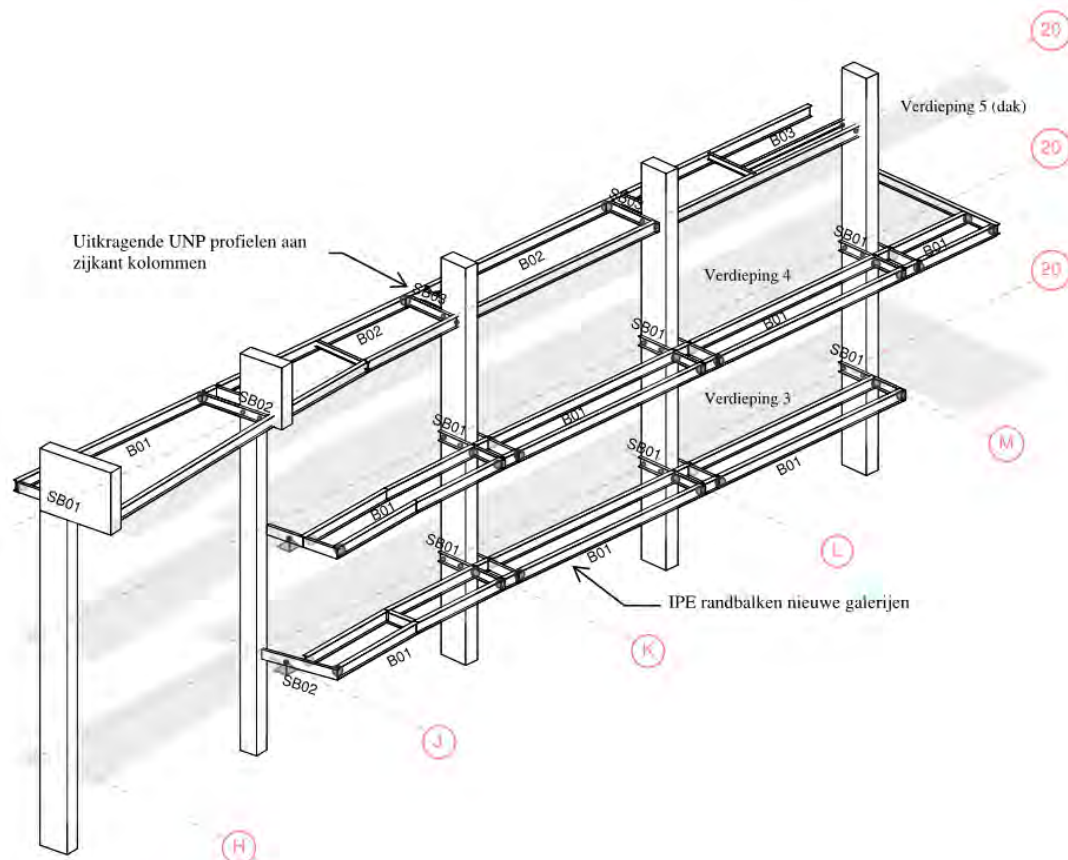
TRAP 234

- Zwaarste elementen 2.2t
- Onderdelen < 800kg inpandig aangevoerd (goederen lift)
- Zware onderdelen 's nachts afgeleverd via gevelopening



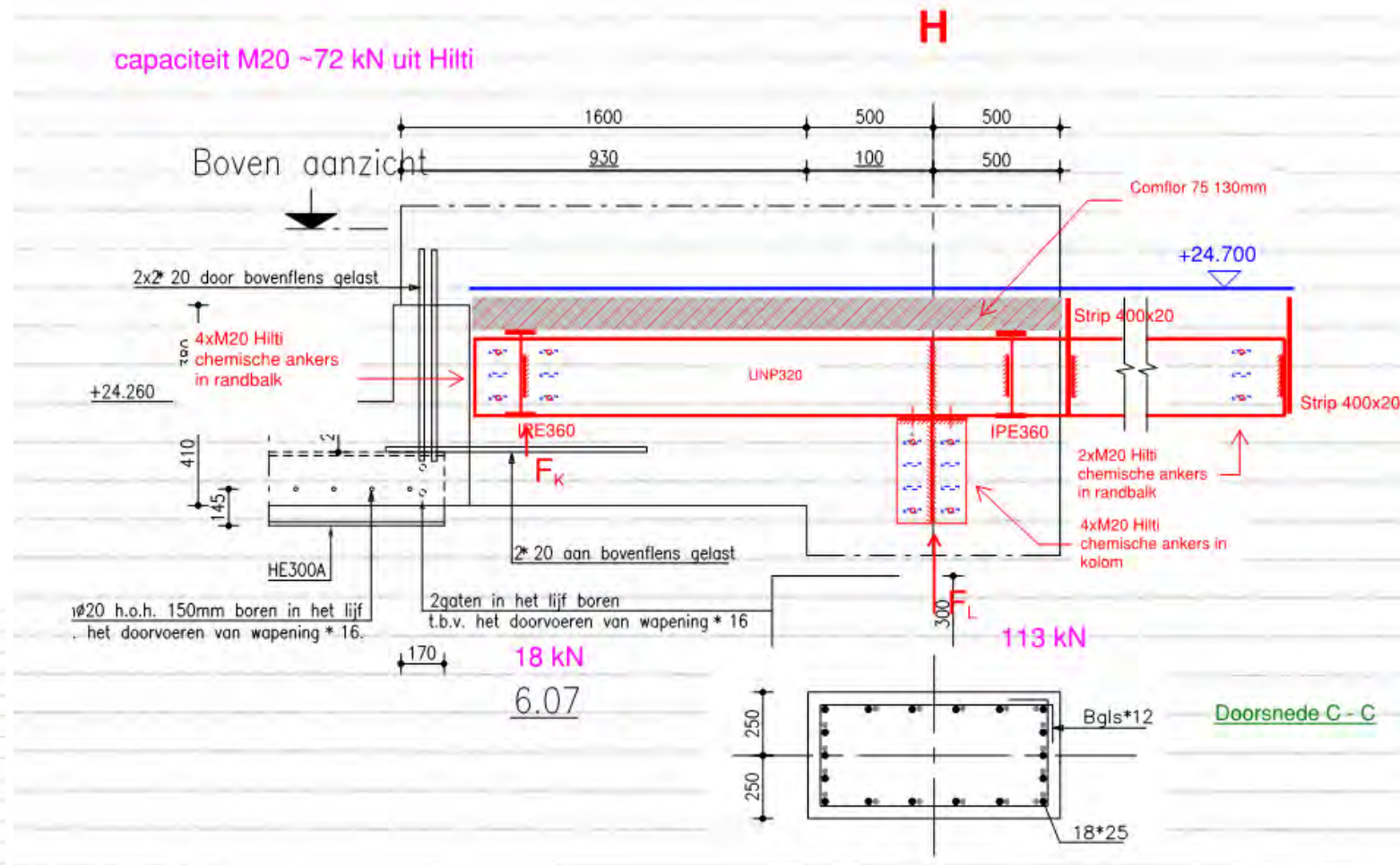
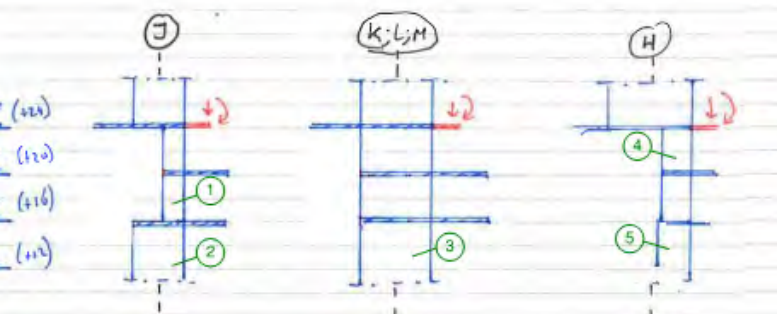
WERELDBIBLIOTHEEK

- Ontwerp:
 - Verbinden aan bestaande kolommen



WERELDBIBLIOTHEEK

- Uitdagingen:
 - Herberekenen kolommen
 - Detaillering
 - Uitvoeringstoleranties!





Bedankt!