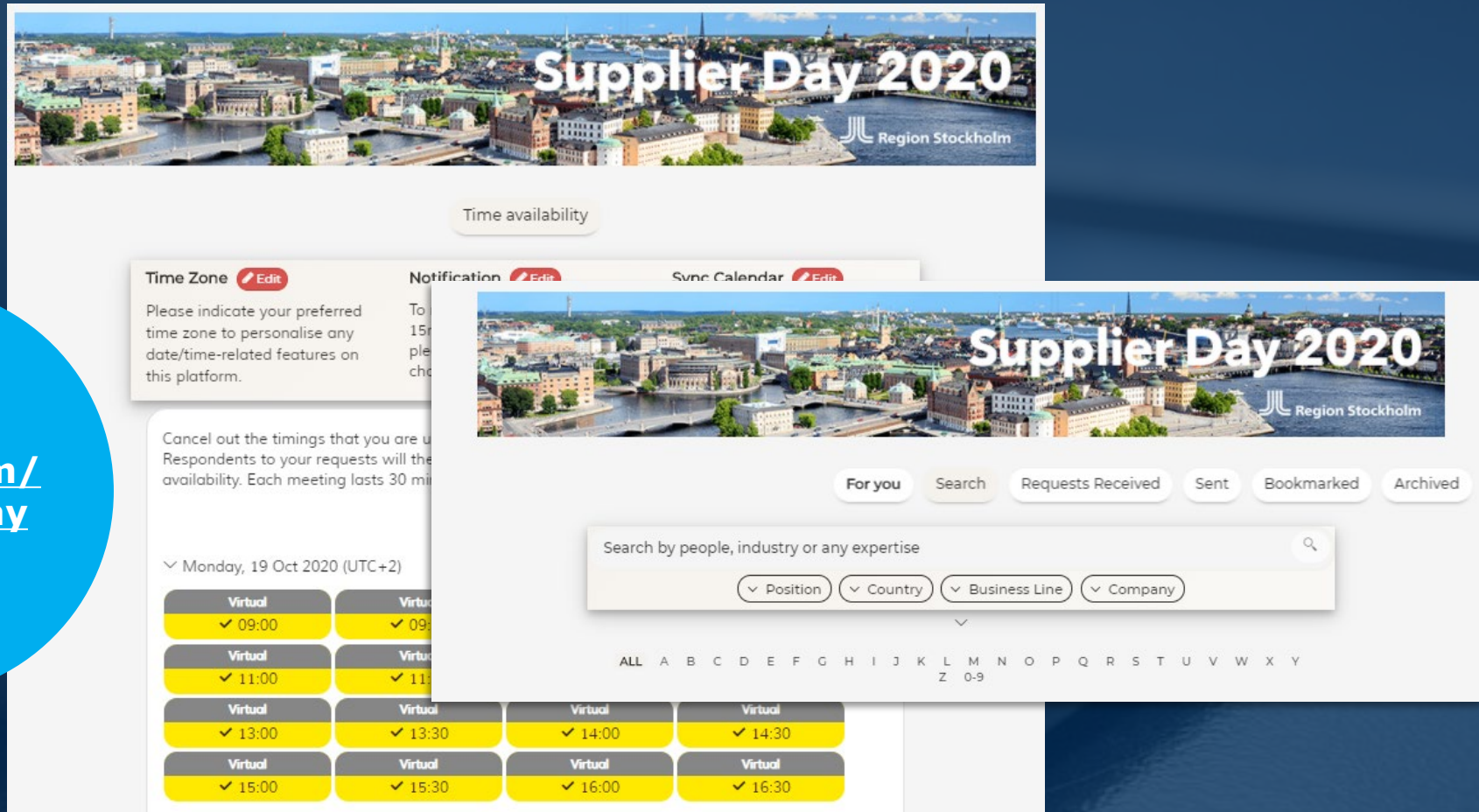


Supplier Day 2020






Network during the day





Supplier Day 2020
Region Stockholm

Time availability

Time Zone  Edit

Please indicate your preferred time zone to personalise any date/time-related features on this platform.

Notification  Edit

Sync Calendar  Edit

Supplier Day 2020
Region Stockholm

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Search by people, industry or any expertise

Position Country Business Line Company

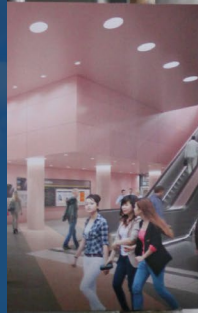
Monday, 19 Oct 2020 (UTC+2)

| | | | |
|---------|---------|---------|---------|
| Virtual | Virtual | Virtual | Virtual |
| ✓ 09:00 | ✓ 09:30 | ✓ 10:00 | ✓ 10:30 |
| Virtual | Virtual | Virtual | Virtual |
| ✓ 11:00 | ✓ 11:30 | ✓ 12:00 | ✓ 12:30 |
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| ✓ 15:00 | ✓ 15:30 | ✓ 16:00 | ✓ 16:30 |


ALL A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 0-9

[e.jublia.com/
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Build Stockholm's new Metro with us!



28 pages of
information
for contractors

 nyatunnelbanan.se

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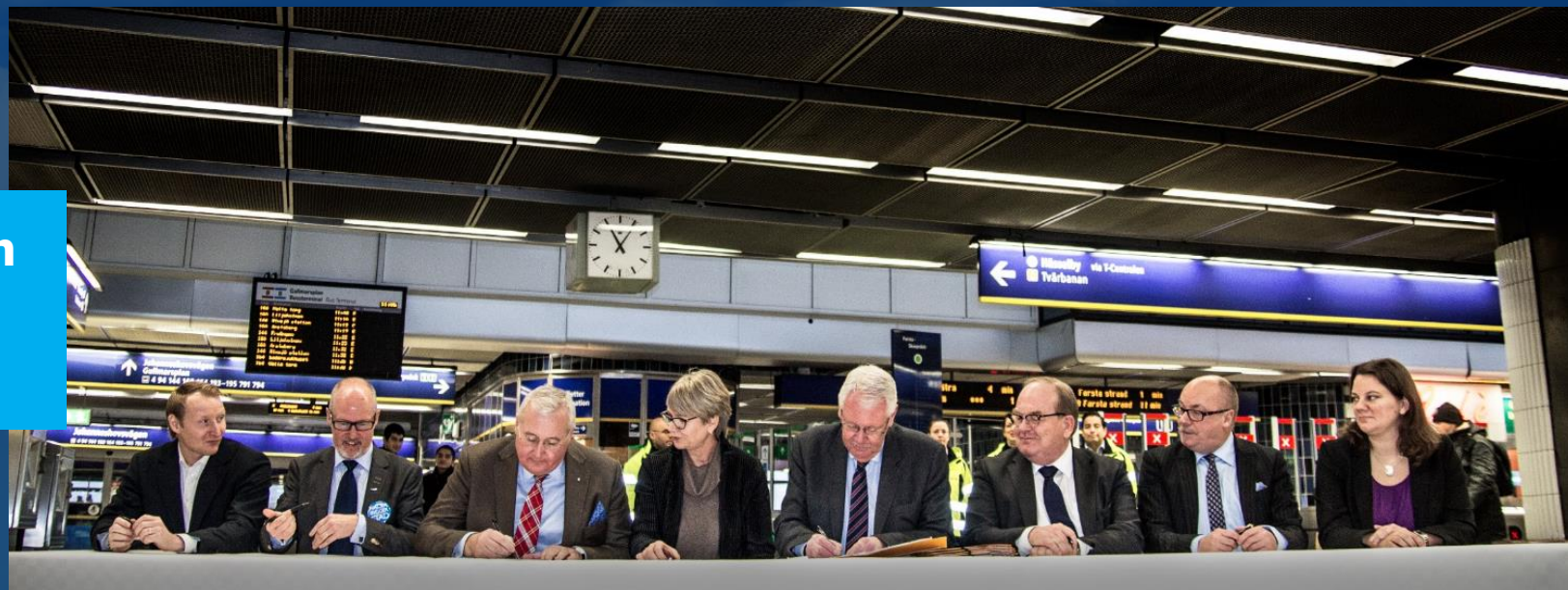
Keep track
with our
procurement
time schedule

| FUT procurement identification number (FUT id nr) | Object designation / assignment (name of the procurement) | Description / scope | Type | Project (Extension part) | For participation in procurement negotiations is required with consulting brokers or qualification system | Only prequalified suppliers in TransQ can participate Trans Q code | Contract type | Scheduled time for qualification of suppliers | Scheduled time for invitation to tender | Scheduled time for submission of tenders | Planned assignment start | Estimated cost SEK million | Procurement certainty | Comment |
|---|--|---|---|--------------------------|---|--|-------------------------|---|---|--|--------------------------|----------------------------|---|--|
| 4701 | Building and installation works 7 Station (Safe, Memoratory kanal, Gulmarplan, Gästhuset, Södra, Södra och Södra C) | The contract comprises framework conditions and installations for entrances, ticket halls, mezzanines, platforms, technical plan, service tunnel, ventilation shaft, fire shafts etc. | building and installation works | Södra-southern suburbs | Prequalification in TransQ required | Yes 9.4.1 - 9.4.9 or 9.4.99 | Design & Build Contract | 2021-01-30 | 2021-06-15 | 2022-03-01 | 2022-06-01 | 100-700 | Red - information uncertain | This contract replaces former procurement contracts regarding Södra & Södra by Kanal, Gulmarplan & Södrahuset. Made on-site. |
| 4702 | Rock excavation and civil works Hagastaden, including building and installation | The contracts comprise rock shafts for tunnels, platform rooms, vertical shafts. Works with heavy steel and concrete framework for Hagastaden station and connecting tunnels to Götgatan and Hagastaden. Earth and foundation works for ticket halls. The contracts also comprise: | rock excavation and civil works | Hagastaden | Prequalification in TransQ required | Yes 9.4.1 - 9.4.9 or 9.4.99 | Build only contract | ongoing | Ongoing procurement | 2020-11-20 | 2021 Q1 | >1000 | Green - information certain (within 3 months) | Railwayplan - estimated July 2020 |
| 4703 | Rock excavation and civil works Annestaden and Södra Hagastaden | Pre-assignment includes construction of a Access tunnel and preparation of an establishment area, rock shafts for tunnels, platform rooms, vertical shafts. Works with heavy steel and concrete framework for Hagastaden station and connecting tunnels to Götgatan and Hagastaden. Earth and foundation works for ticket halls. The contracts also comprise: | rock excavation and civil works | Annestaden | Prequalification in TransQ required | Yes 9.4.1 - 9.4.9 or 9.4.99 | Build only contract | ongoing | Ongoing procurement | 2021-01-28 | 2021 Q1 | >1 600 | Green - information certain (within 3 months) | Replaces 3716, 3713 and 3712. Railwayplan - estimated July 2020 |
| 4704 | Building and installation works Södra Hagastaden and Annestaden | The contracts comprise, among other things, framework completions with light walls, wall panels, forging, glass partitions, false ceiling, floor and other surface works. Installation for | building and installation works | Annestaden | Prequalification in TransQ required | Yes 9.4.1 - 9.4.9 or 9.4.99 | Build only contract | 2023-Q2 | 2023-Q3 | 2024-Q2 | 2024-Q3 | >1000 | Red - information uncertain | Replaces 3722 och 3723. Railwayplan - estimated July 2020 |
| 4705 | NEST assembly (Track-, Electrical-, Signal- and Telecommunication works) | The contract comprises assembly works for new rail installation. Rail and switch assembly, third-rail installation, low-voltage installations in rail tunnels, signal, | NEST (Track-, Electrical-, Signal- and Telecommunication works) | Annestaden | Prequalification in TransQ required | Yes 9.1.1 | Build only contract | 2023-Q1 | 2023-Q1 | 2023-Q4 | 2024-Q1 | 200-400 | Red - information uncertain | |
| 4715 | Concrete tunnel | Concrete tunnel | Rock excavation and civil works | Barkarby | Prequalification in TransQ is required | Yes 9.4.1 - 9.4.9 or 9.4.99 | Design & Build Contract | 2023-01-01 | 2023-03-02 | 2023-10-31 | 2023-12-29 | 40 | Red - information uncertain | |
| 4721 | Building and installation, (Barkarby tunnel and station) | Including framework completion installations (building incl. telecom) | building and installation works | Barkarby | Prequalification in TransQ required | Yes 9.4.1 - 9.4.9 or 9.4.99 | Build only contract | ongoing | Ongoing procurement | 2021-03-01 | 2021-03-01 | 500-1,000 | Green - information certain (within 3 months) | |
| 4743 | Track, Electricity 400 volt, 3rd rail, ducting | Barkarby, NEST Track (Track-, Electrical-, Signal- and Telecommunication works) | NEST (Track-, Electrical-, Signal- and Telecommunication works) | Barkarby | Prequalification in TransQ required | Yes 9.1.1 | Build only contract | 2020-10-01 | 2021-01-01 | 2021-06-30 | 2021-10-01 | 250-300 | Red - information uncertain | Former procurement ID nr 4742 is included in 4743 |
| 4744 | Signal | NEST Signal (Track-, Electrical-, Signal- and Telecommunication works) | NEST (Track-, Electrical-, Signal- and Telecommunication works) | Barkarby | Prequalification in TransQ required | Yes 9.1.1 | Build only contract | 2021-01-04 | 2021-04-01 | 2021-09-30 | 2022-01-01 | 25 | Red - information uncertain | |
| 5711 | Kivikundöden, Concrete tunnel | Construction of a concrete tunnel, including preparatory works, shoring, earth and rock excavation, grouting and reinforcement works. Pipe installation. | rock excavation and civil works | Depot | Prequalification in TransQ required | Yes 9.4.1 - 9.4.9 or 9.4.99 | Build only contract | ongoing | 2020-08-31 | 2021-01-13 | 2021 Q1 | 300-500 | Green - information certain (within 3 months) | Railway plan, and Environmental ruling - estimated 2020- Q4 |
| 5712 | Access tunnel (exc. concrete tunnel) Drylaxen | Mainly including preparatory works, shoring, earth and rock excavation, including injection and reinforcement works. | rock excavation and civil works | Depot | Prequalification in TransQ required | Yes 9.4.2 | Build only contract | ongoing | Ongoing procurement | 2021-01-13 | 2021-Q1 | 50-100 | Green - information certain (within 3 months) | Railway plan, and Environmental ruling - estimated 2020- Q4 |
| 5713 | Main tunnel, connecting tracks and sidings hall, interior fittings and installations in underground tunnel and cavern. | Excavation of main cavern and connecting tunnels. Installations in access- and service tunnel, connecting track and storage hall below ground. (Sprinklers). | rock excavation and civil works | Depot | Prequalification in TransQ required | Yes 9.4.1 - 9.4.9 or 9.4.99 | Build only contract | 2021-03-15 | 2021-04-15 | 2021 Q4 | 2022 Q1 | 600-700 | Yellow - railway information | Railway plan, and Environmental ruling - estimated 2020- Q4. Also including former procurement 5726 |
| 5721 | Expanded sidings shed Extension of existing building Workshop area New cleaning and siding shed | Existing building above ground to be expanded with a garaging point for 4 trains. Extension of existing cleaning shed in new workshop (C30), approximately 80x10 metres shall be built. Construction of a new building with | building and installation works | Depot | Prequalification in TransQ required | Yes 9.4.1 - 9.4.9 or 9.4.99 | Design & Build Contract | ongoing | Ongoing procurement | 2020-08-17 | 2020-Q3 | 900-1000 | Green - information certain (within 3 months) | The procurement is including former ID 5722, 5723 and 5724 |
| 5740 | NEST (Track-, Electrical-, Signal- and Telecommunication works) | NEST (Track-, Electrical-, Signal- and Telecommunication works) | NEST (Track-, Electrical-, Signal- and Telecommunication works) | Depot | Prequalification in TransQ required | Yes 9.1.1 | Build only contract | 2021- Q1 | 2021-Q1 | 2022-Q1 | 2022 Q2 | 100-300 | Red - information uncertain | Railway plan, and Environmental ruling - estimated 2020- Q4 |
| 7711 | Rail and service tunnel Kungälvstjärnen (Kjg) | The contract comprises rock shafts for rail tunnels and service or Blaaholmen. Concreting works and connecting earth works for tops up and entrances are also included. | rock excavation and civil works | Södermalm | Prequalification in TransQ required | Yes | Build only contract | 2020-09-01 | 2020-09-01 | 2020-12-28 | 2020-02-15 | 300-500 | Green - information certain (within 3 months) | The previous procurement has been cancelled and will now be rebid. |



General introduction about the Extended Metro

Signature of the Stockholm Negotiation Agreement in 2014



The National Negotiation on Housing and Infrastructure 2017



**New housings
Total 130,500**



Blue line to Barkarby



Construction time: 8 years
Planned start of operation: 2026



Metro to Arenastaden



Implenia

Construction time: 8 years

Subterra

Blue line to Nacka and Söderort

Construction time: 10 years
Planned start of operation: 2030





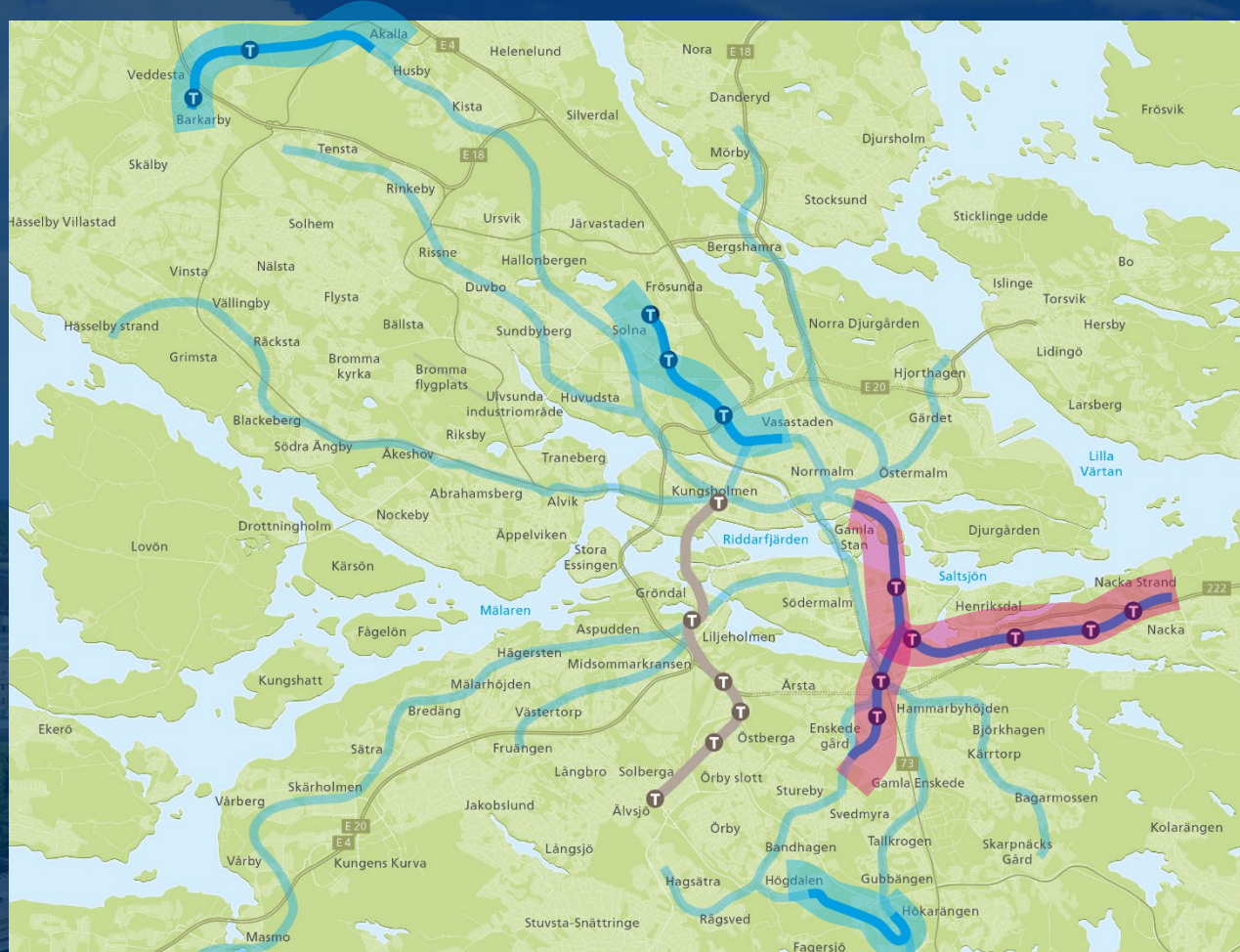
Expanded Depot at Högdalen

Construction time: 5 years

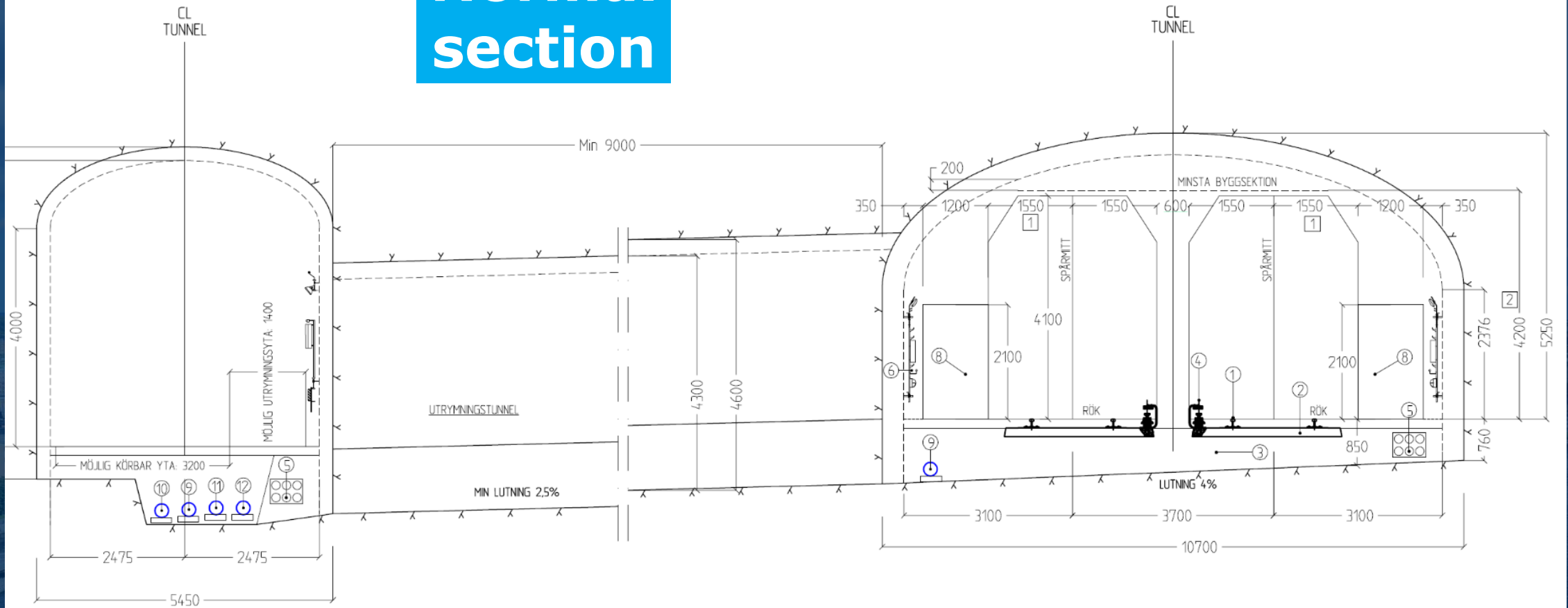


Hope to see you work with us

Track, electricity, signal and telecom solutions

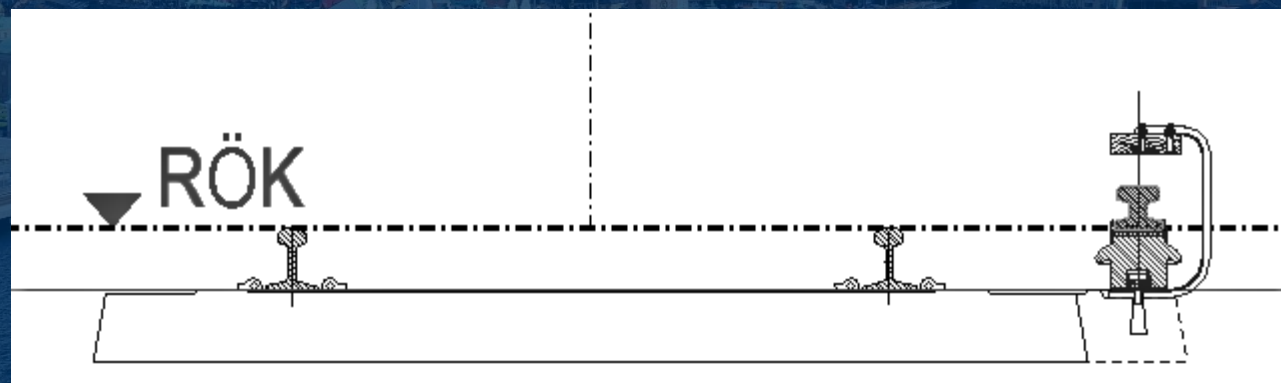


Normal section



Track

- Ballast track
- Point – the same assortment as in the existing installations
- Third rail – the same as the existing system
- Pedestrian walkway



Electricity

An extension of the existing power supply system

- 33 kV network
- Rectifier stations – power supply for train operation
- Sub-stations 33/0.4 kV
- 0,4kV in rail tunnels

Signal

Extension of existing signal system

- Blue Line
 - A relay-based system
- Yellow line/Green line
 - The same signal system is required.

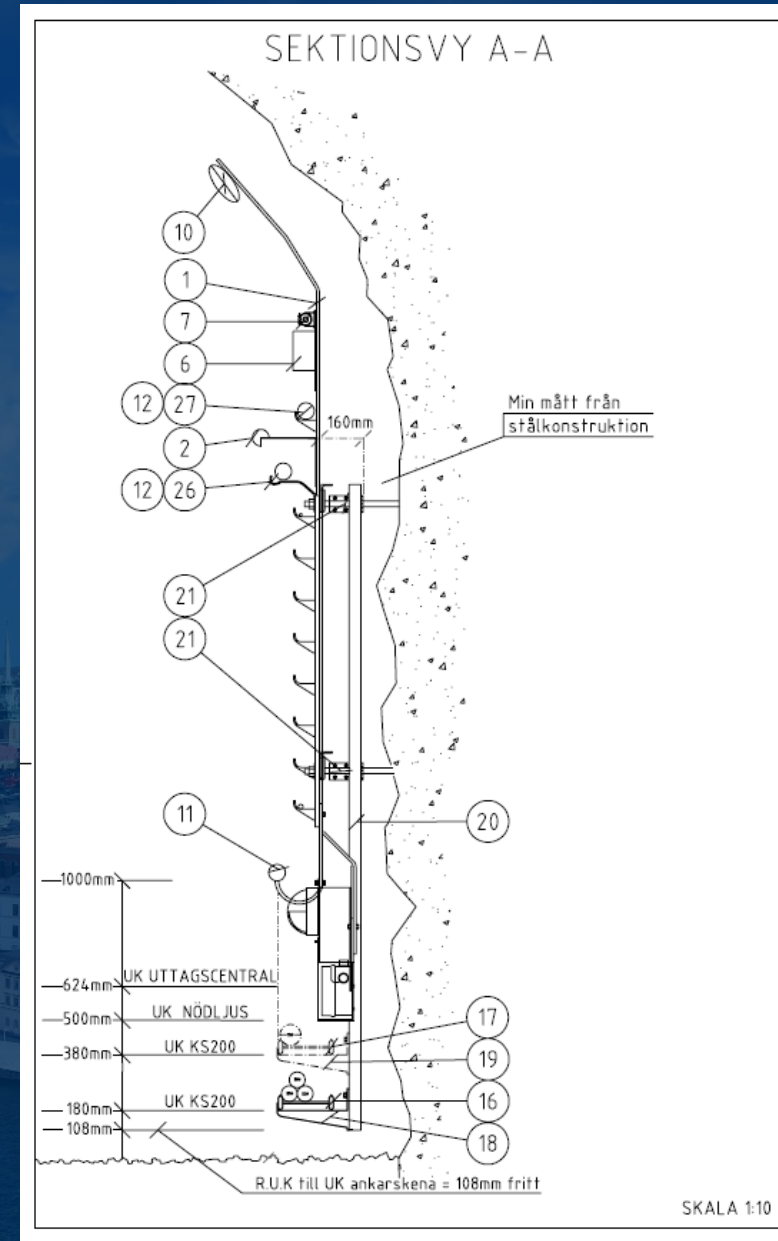
Telecom

- Extension of existing system by established principals
- High demands on accessibility and safety



Ducting

- Service tunnel
 - Cable ladders
- Track tunnel
 - Cable konsols for EST
 - Cable ducts for 750 V





Technical solutions for ventilation, platforms and electricity

Entrances & Platforms



Entrances & Plattform



Entrances & Plattform



Entrances & Plattform



Entrances & Plattform



Entrances & Plattform



Entrances & Plattform



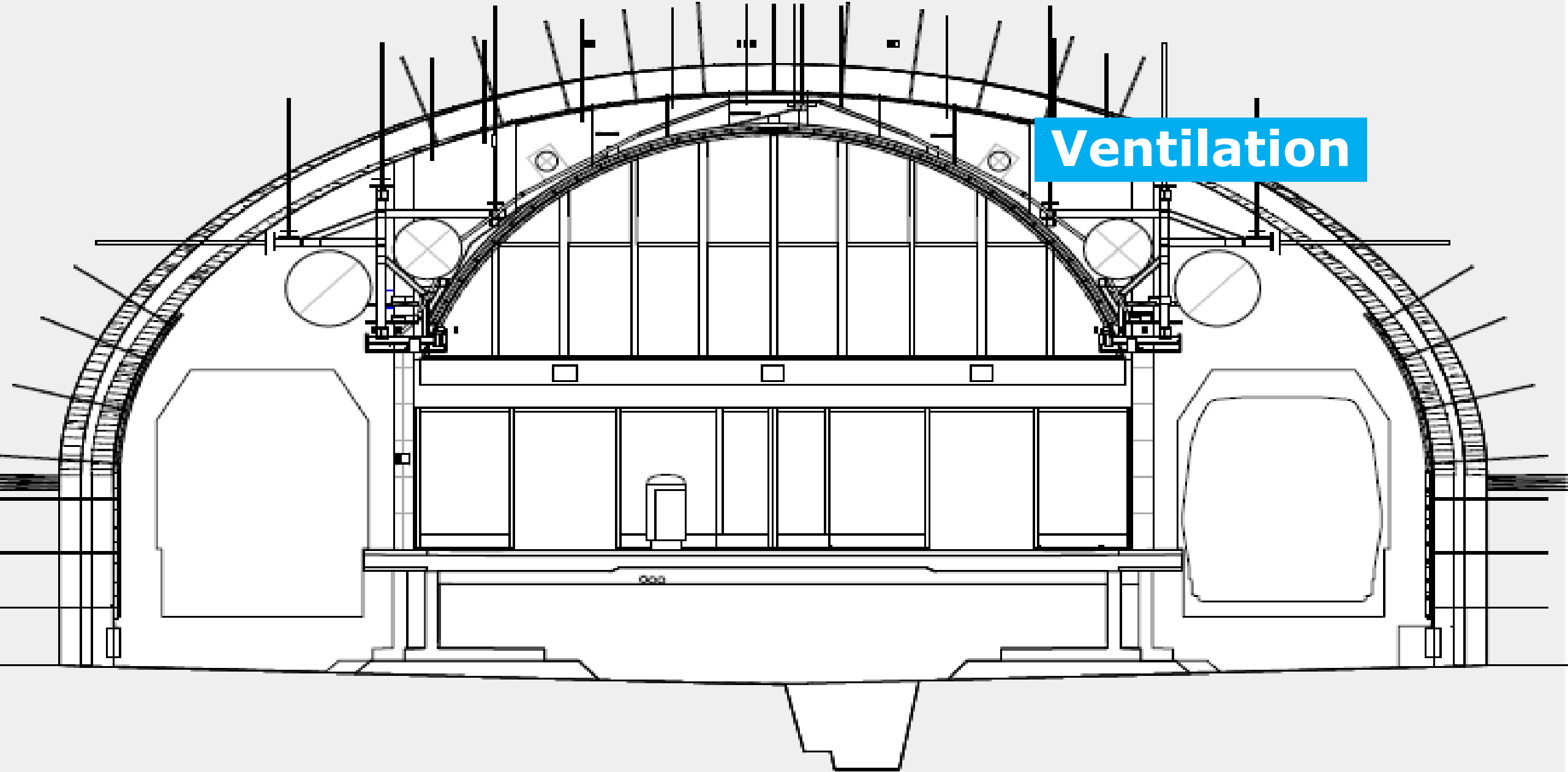
Entrances & Plattform



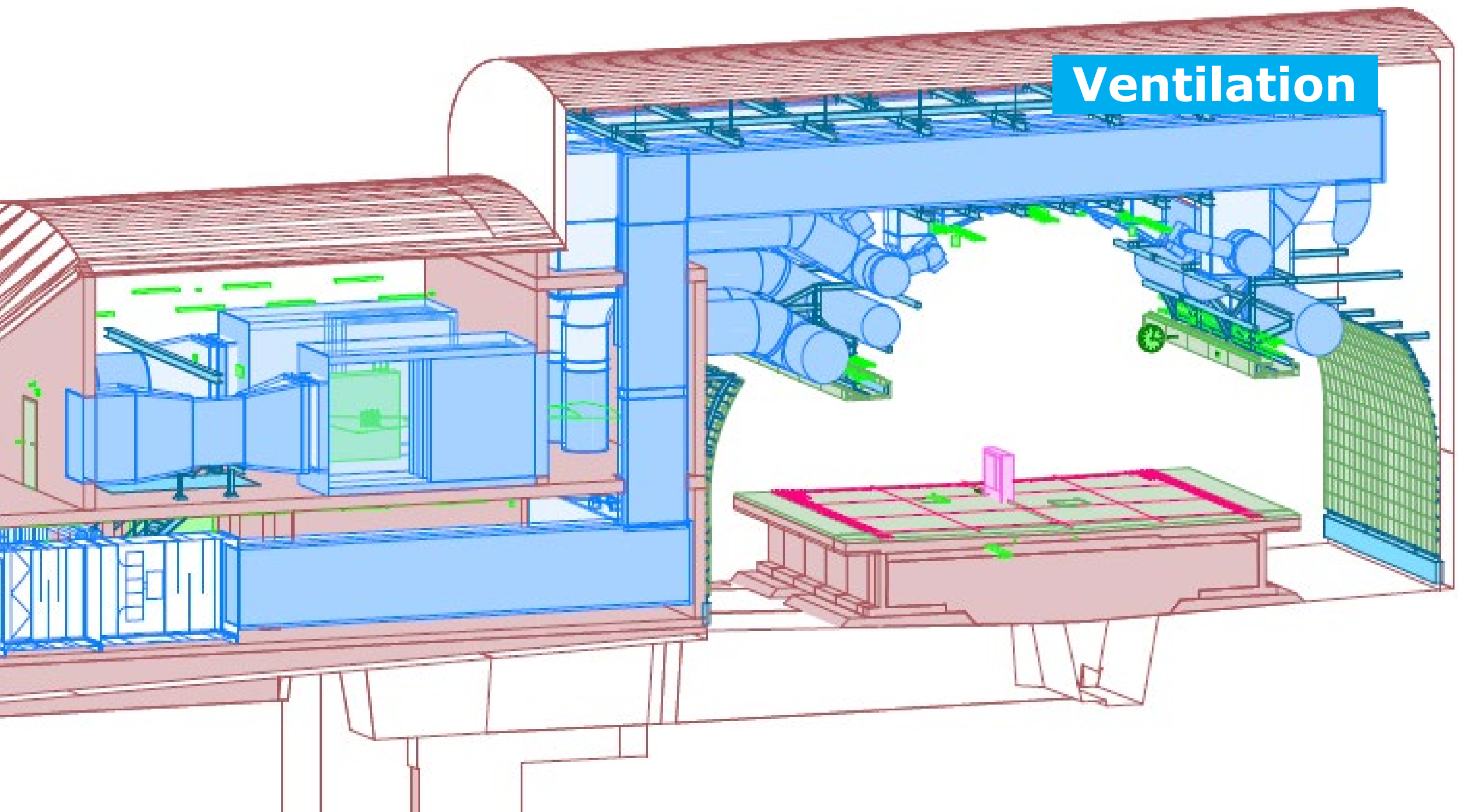
Entrances & Plattform



Ventilation



Ventilation



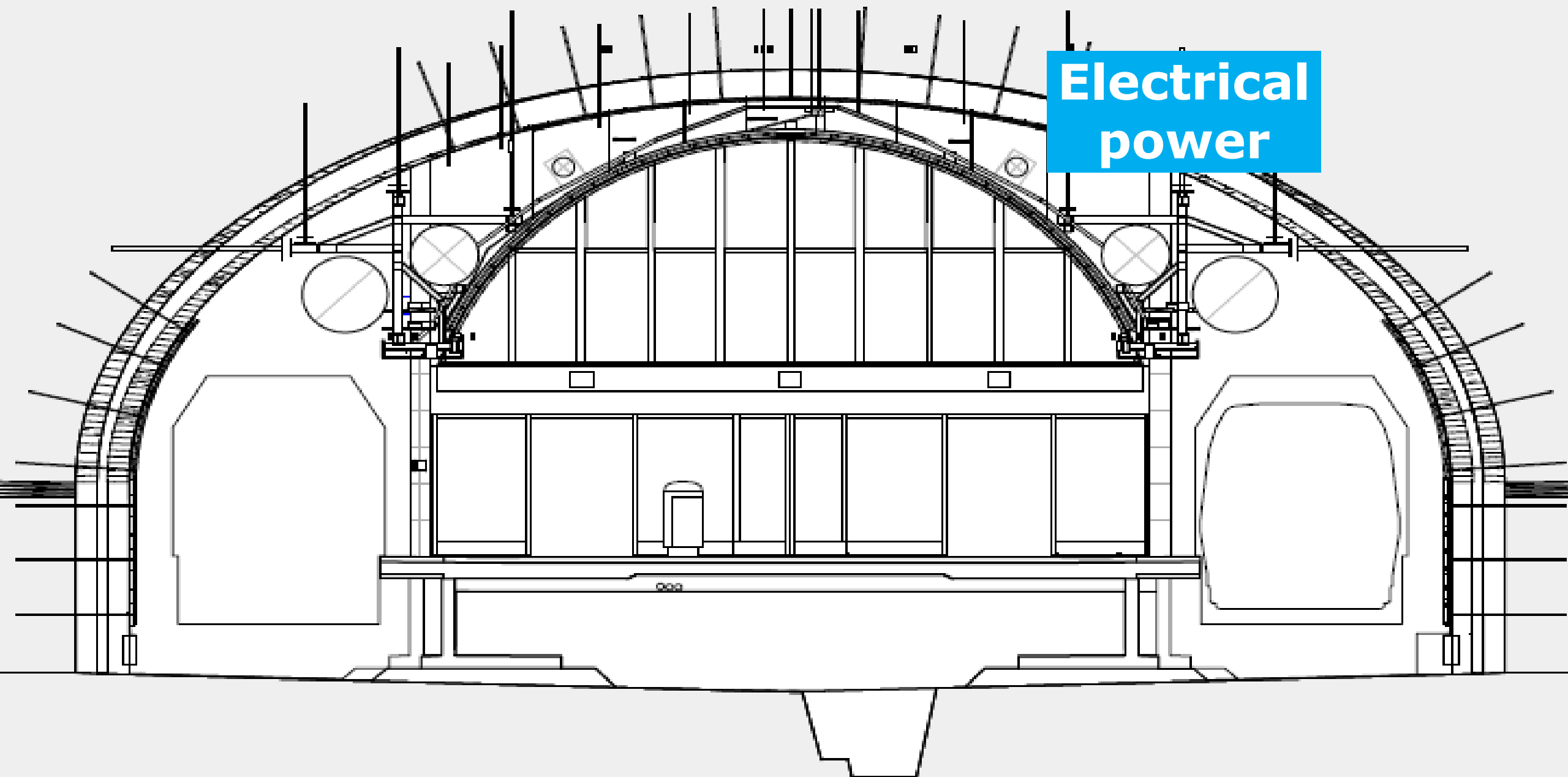
Electrical power



Electrical power



**Electrical
power**



Automation



PLCopen[®]
for efficiency in automation





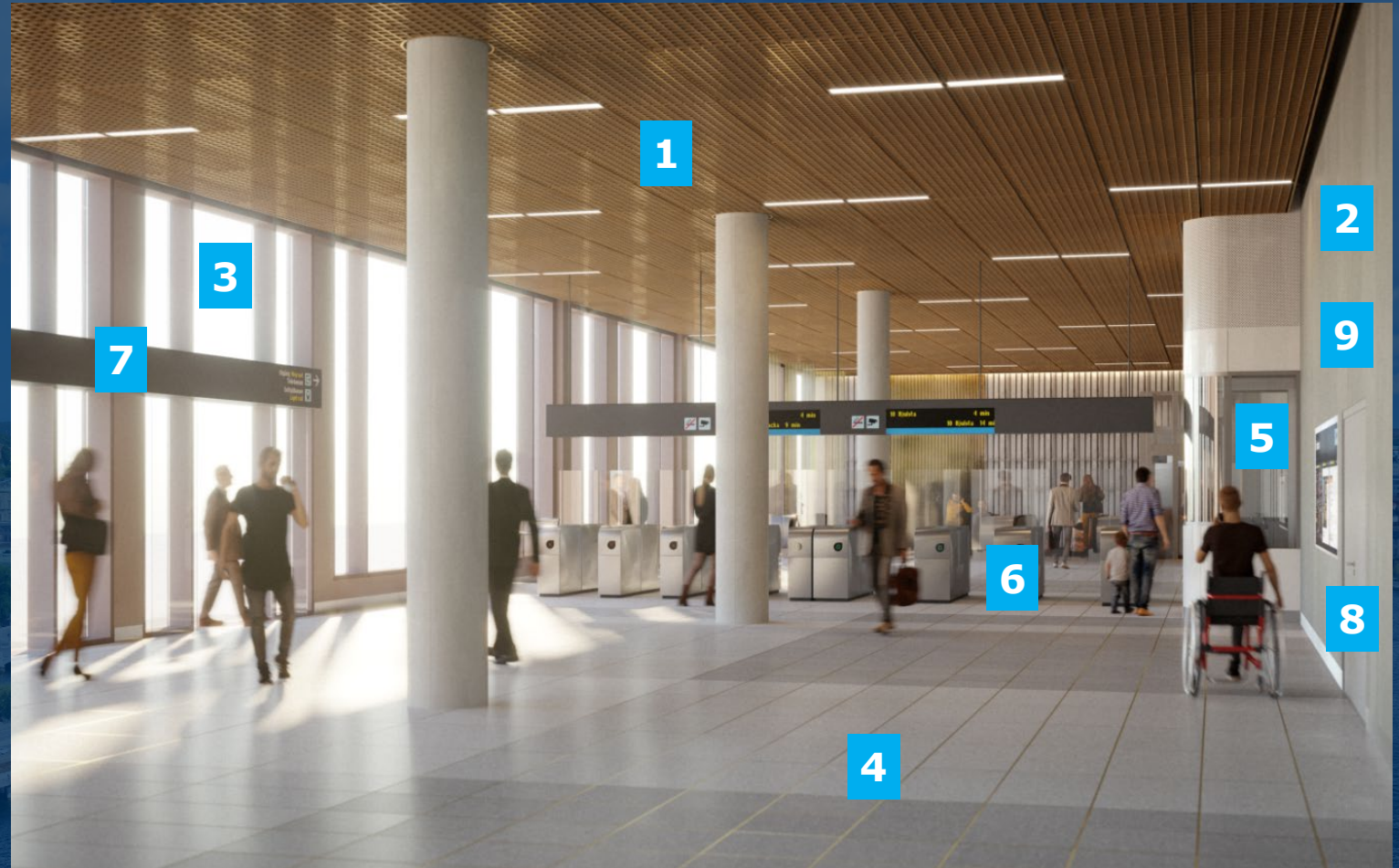
Technical solutions for lightweight walls and glass partitions

Building construction



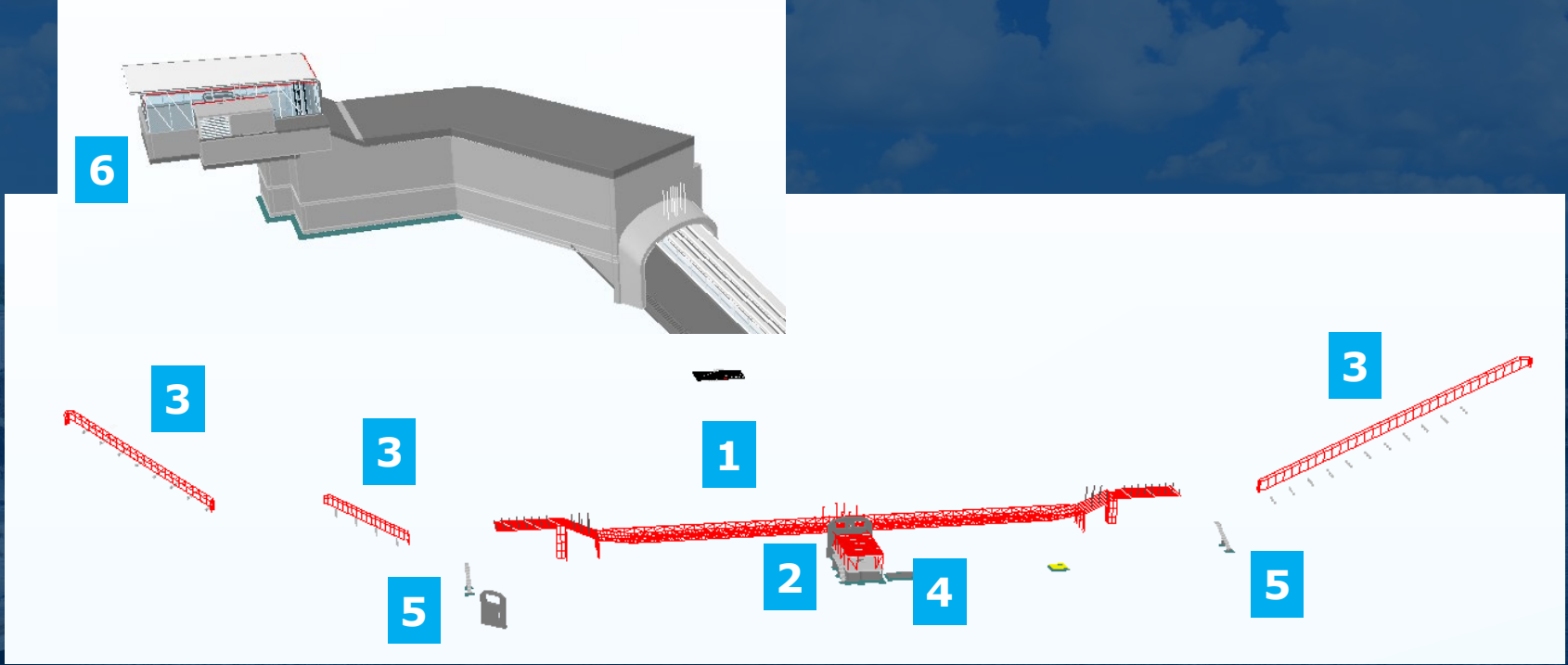
Architecture

1. False ceiling
2. Wall cladding
3. Glass partitions
4. Floors
5. Standard rooms
6. Furniture
7. Signage
8. Doors
9. Walls



Structures

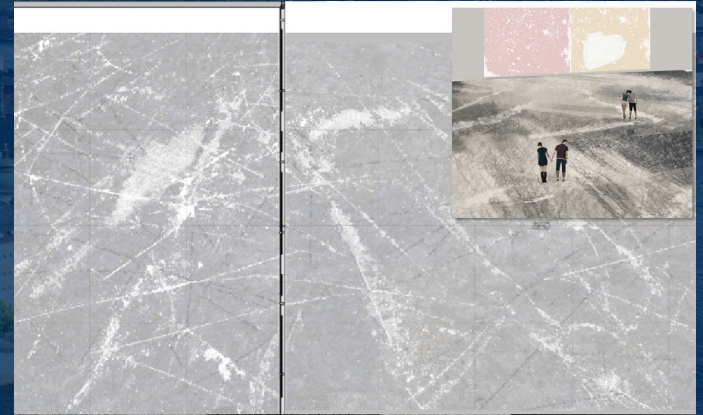
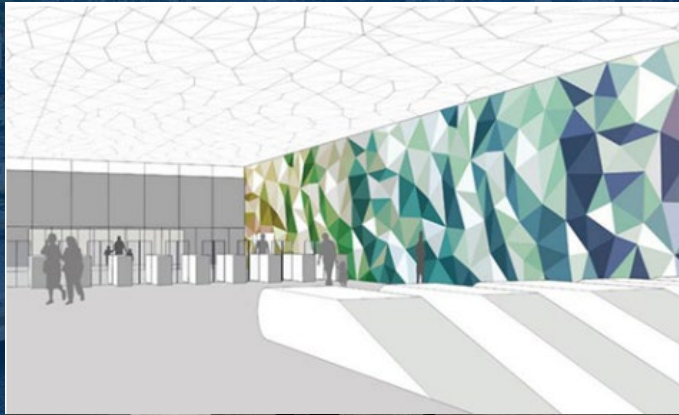
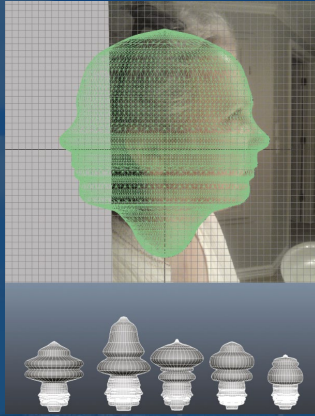
- 1. Ceilings
- 2. Buildings
- 3. Support structures
- 4. Foundations
- 5. Stairs
- 6. Entrance pavillions



Art



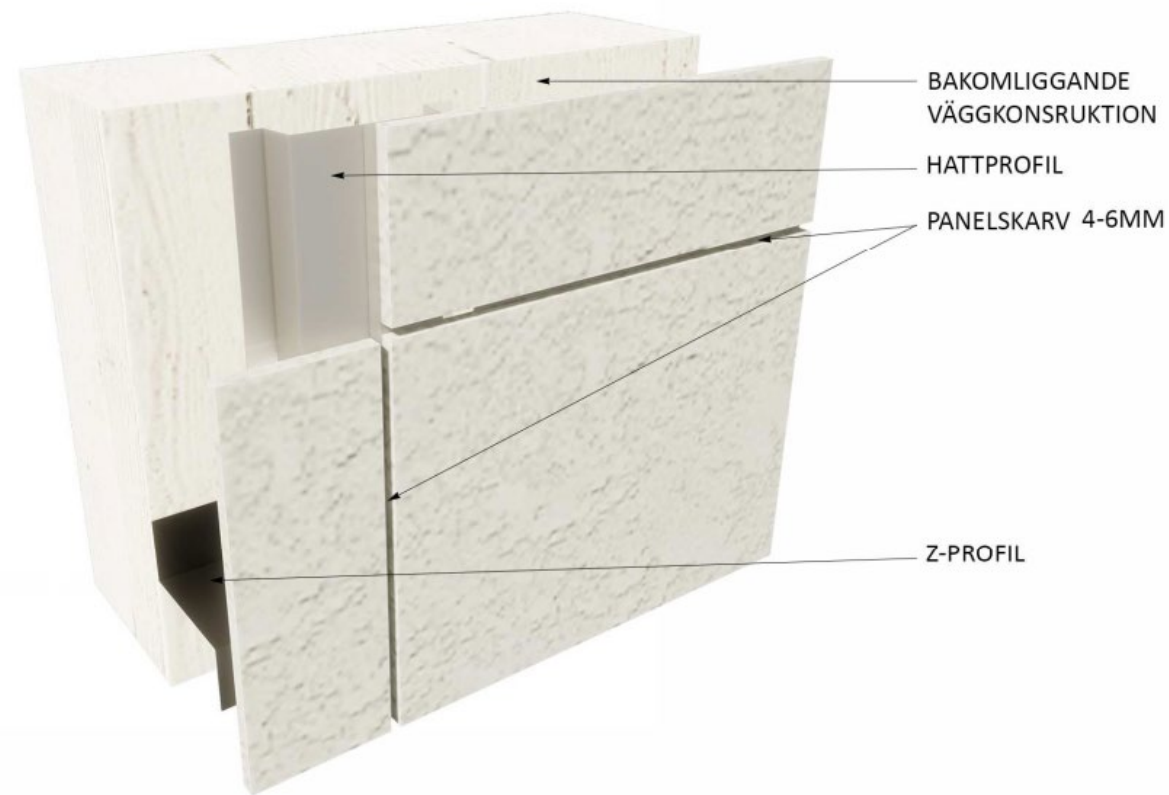
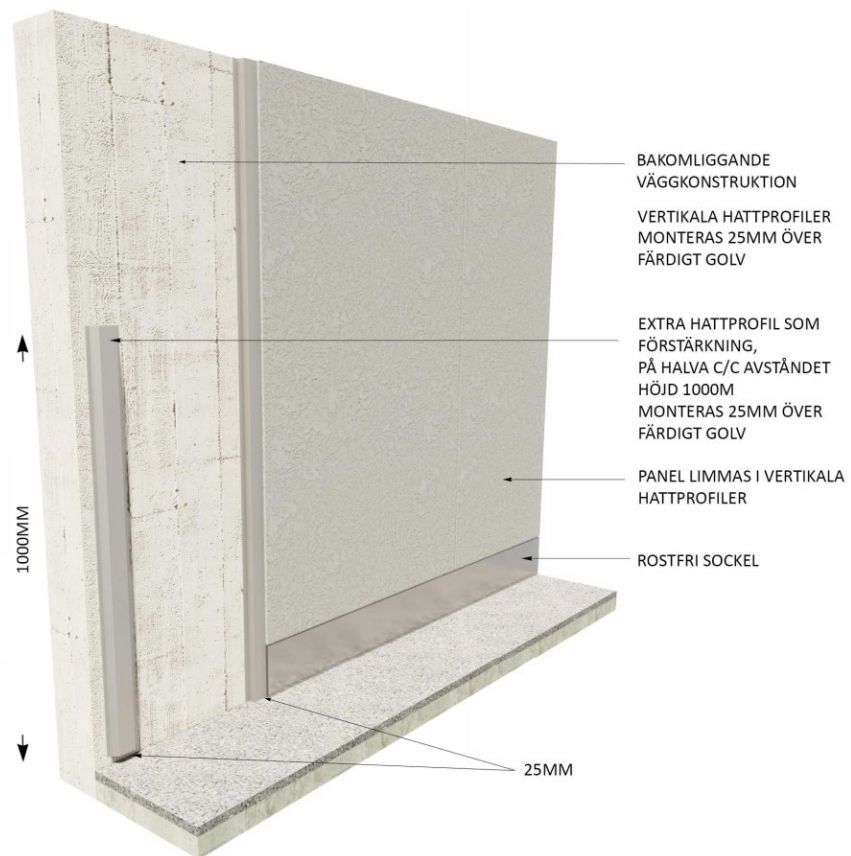
Art



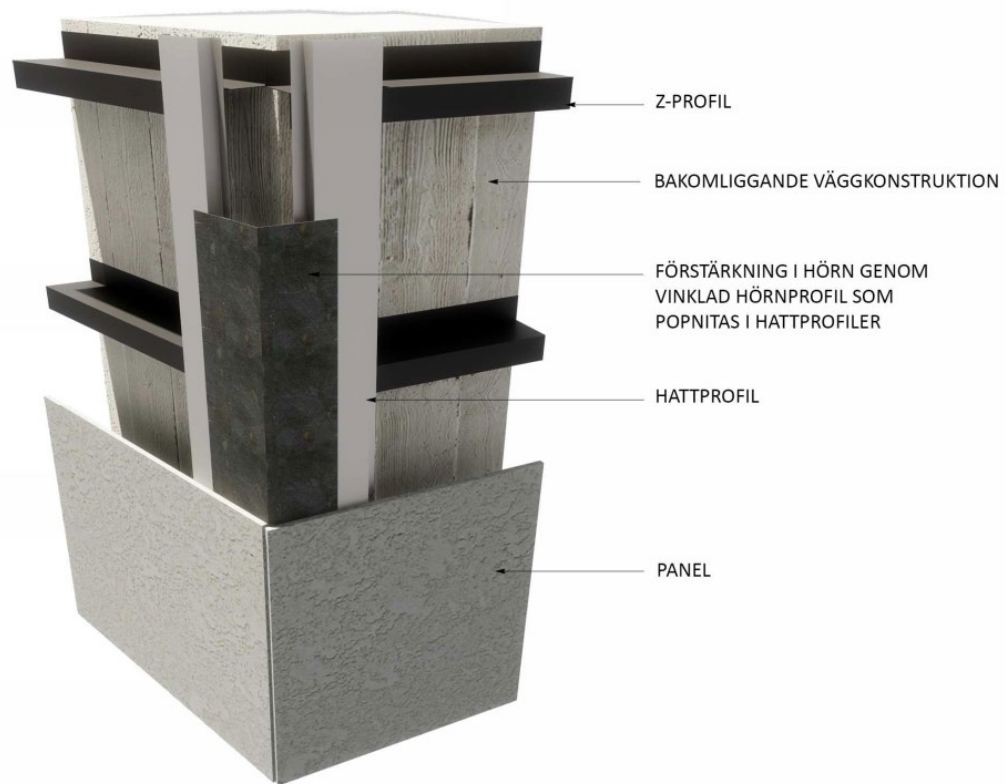
Wall cladding

- Fiber cement
- Surface-treated, clean-friendly graffiti protection
- Glued to vertical battens
- Angles, edges and corners concealed reinforcement
- Non-combustible, maintenance free
- Mechanical fastening, recessed in color equal to the board

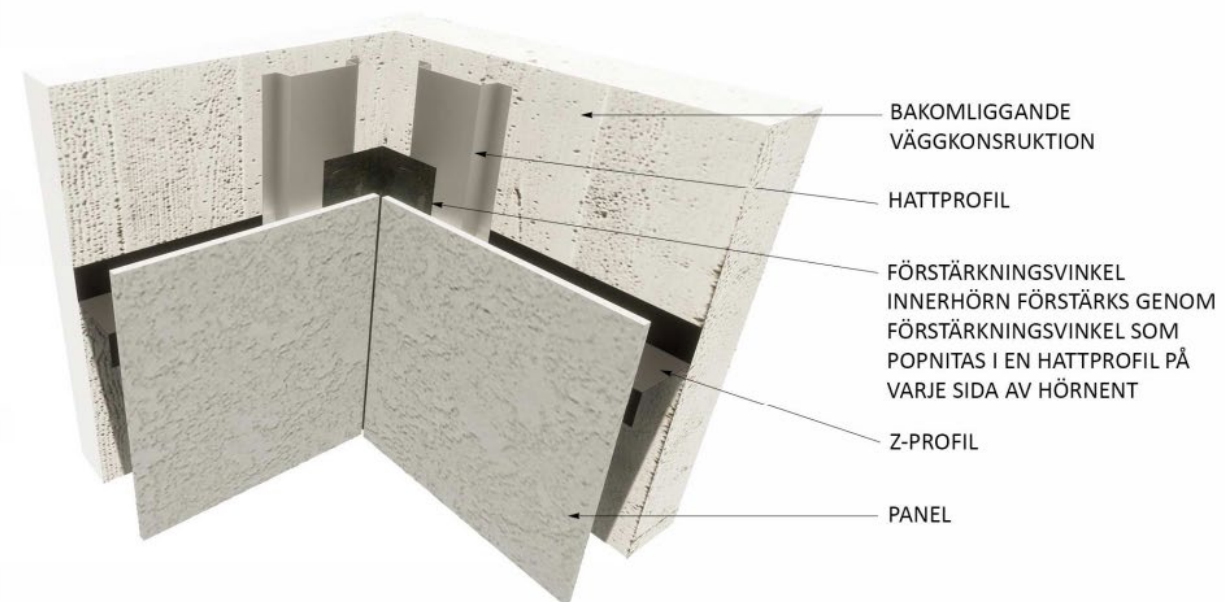
Wall



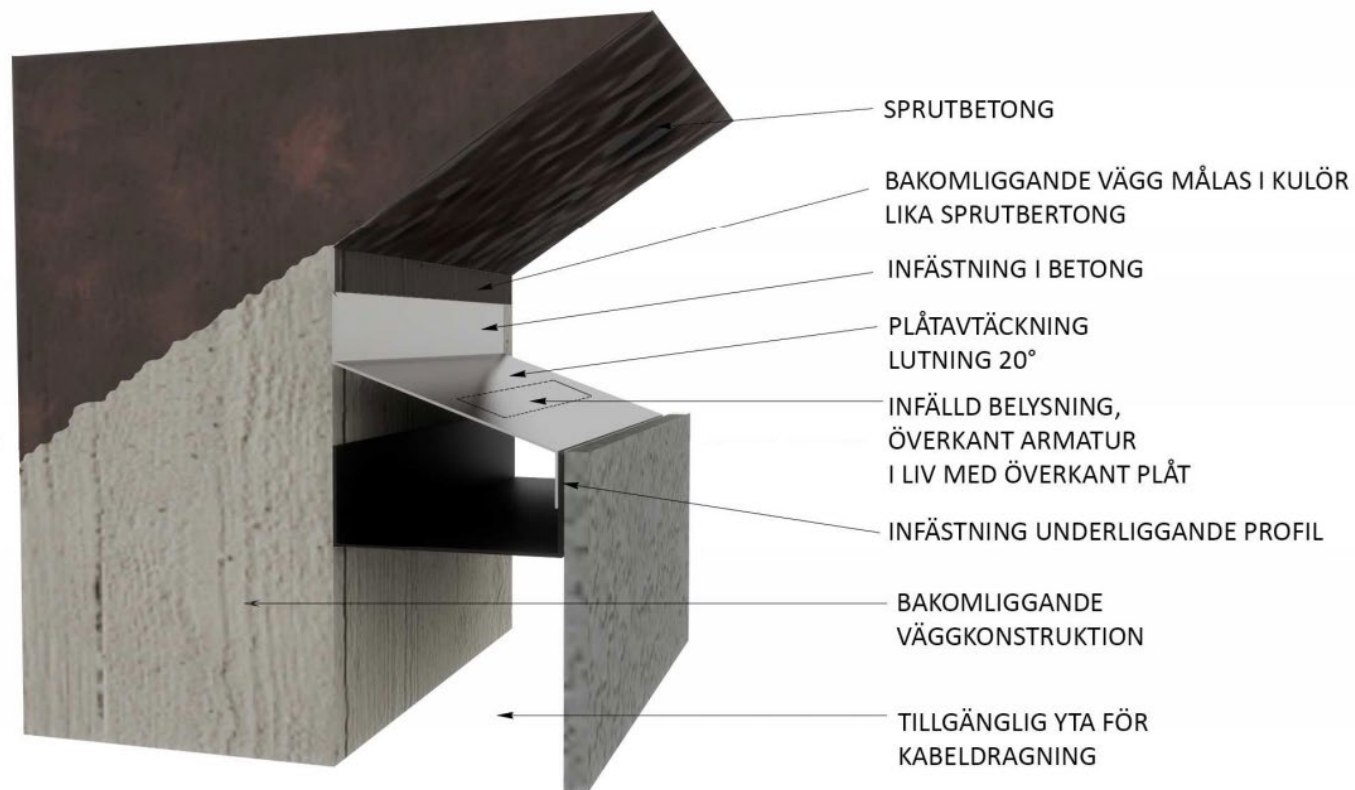
Edge



Corner

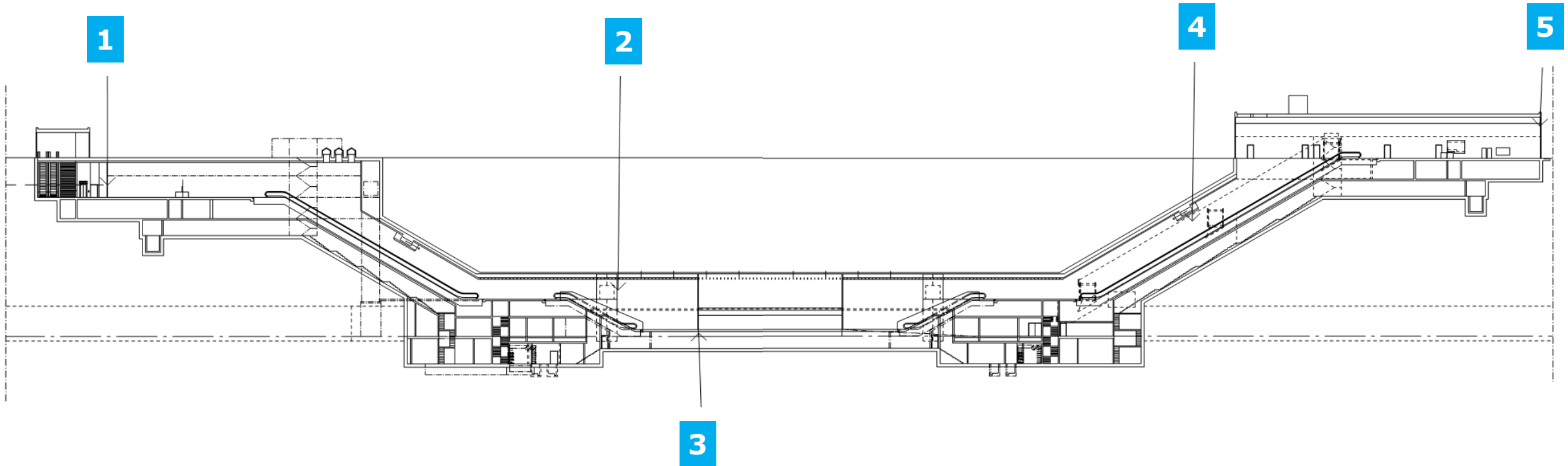


Wall finish against shotcrete

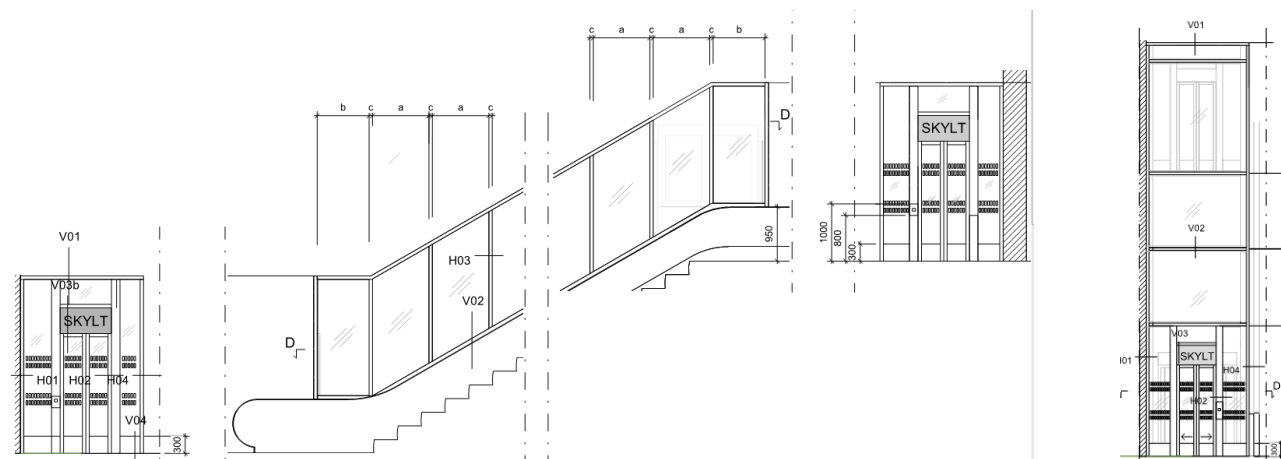
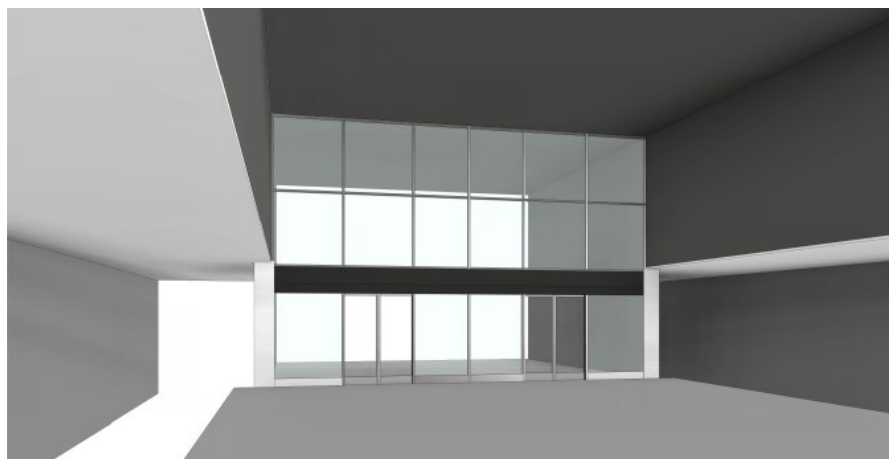
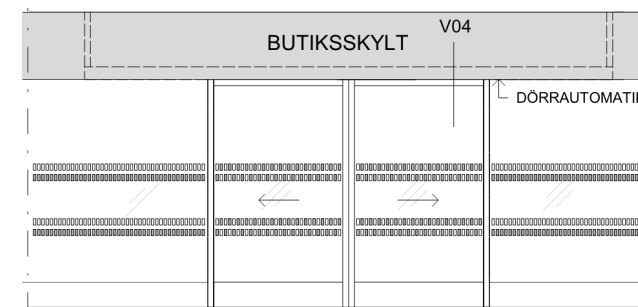
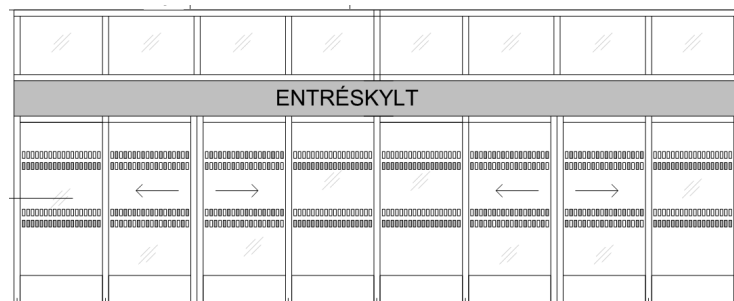
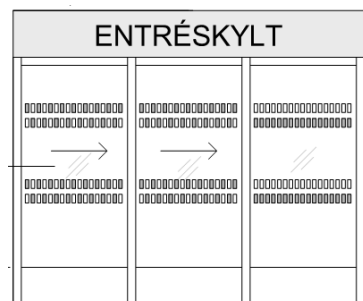
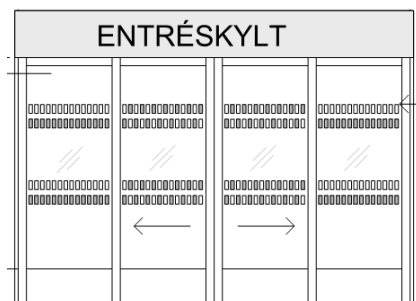


Glass partitions

1. Climate
2. Elevator
3. Fire protection
4. Inclined elevator
5. Entrance



Typical solutions

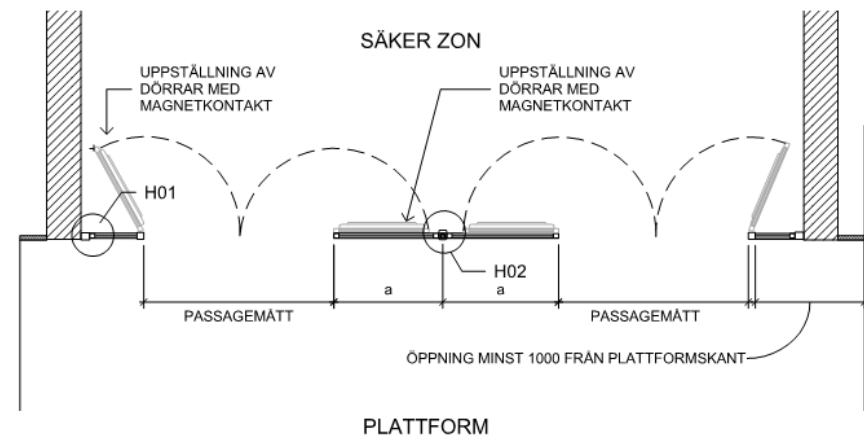
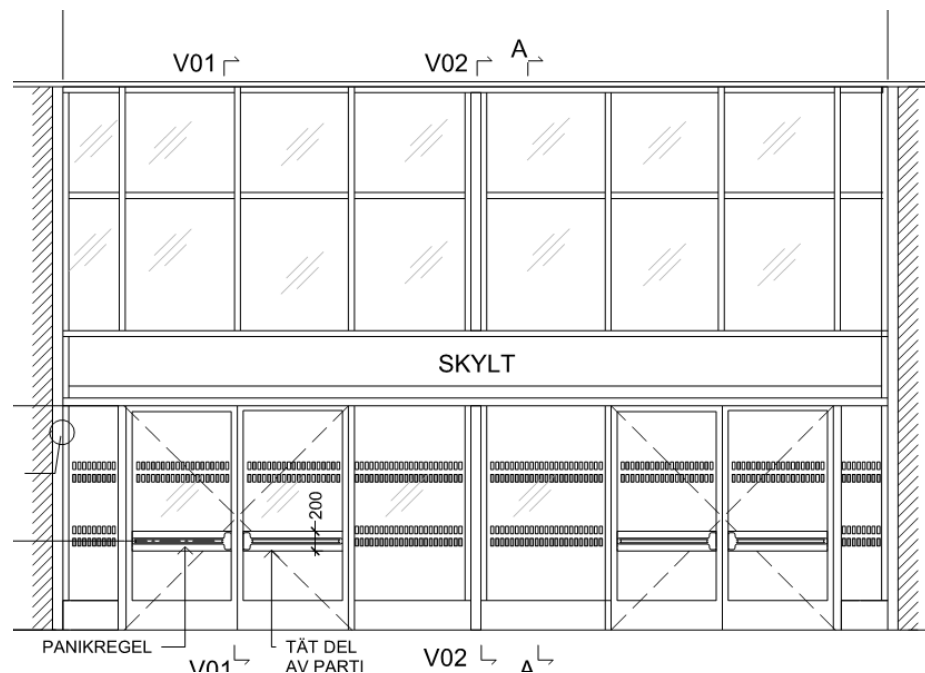


Regulations and requirements

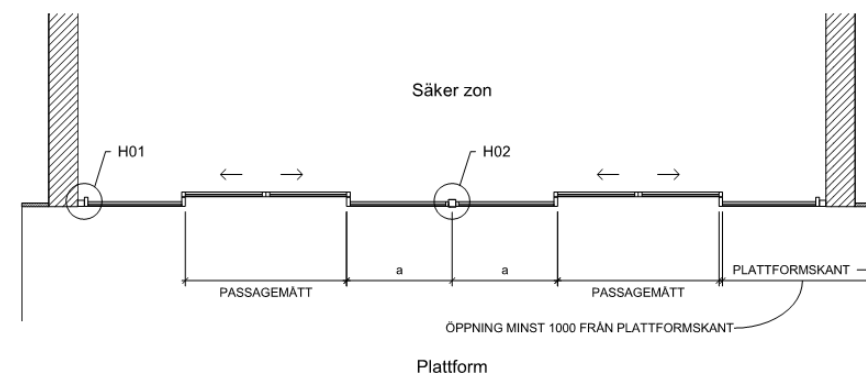
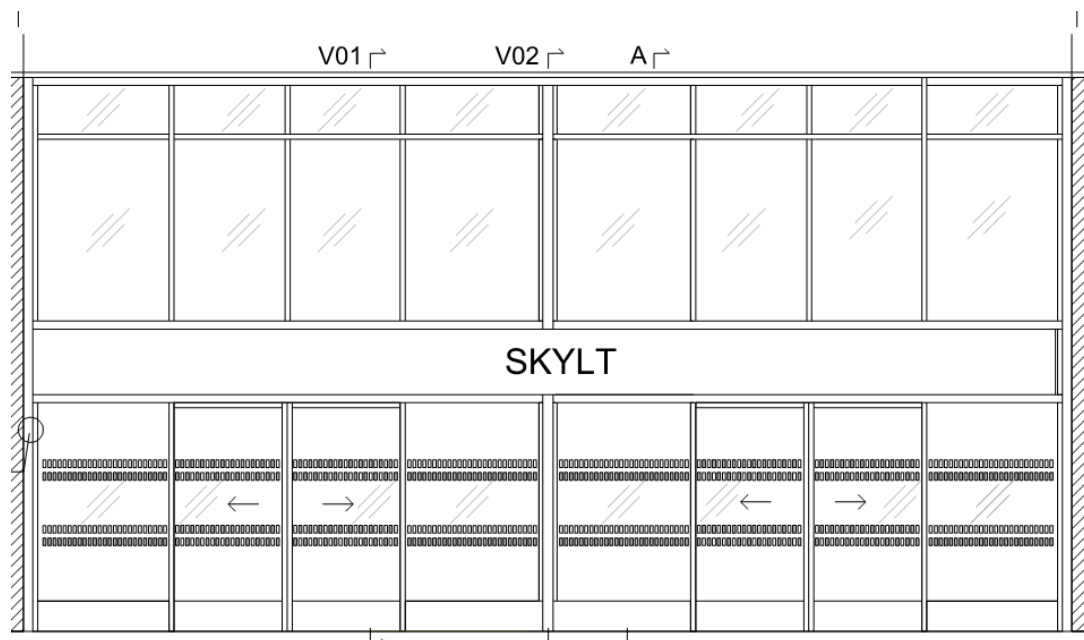
- Profiles
- Canalisation
- Glass
- Contrast markings
- Fire and evacuation
- Requirements



Typical detail



Typical detail





Construction, installation and BEST



Metro to Arenastaden

Upcoming procurements

Construction and installation
Arenastaden and Södra Hagalund

Track infrastructure

Ongoing procurements

Rock excavation and civil works
Arenastaden and Södra Hagalund

Hagastaden complete station



3727 Construction and installation Arenastaden and Södra Hagalund

- Build only
- Fixed price
- Scope
 - Non-structural works
 - Installations
 - Lifts and escalators
 - Telecom for the third station
- Procurement start: 2023 Q2
(May change)

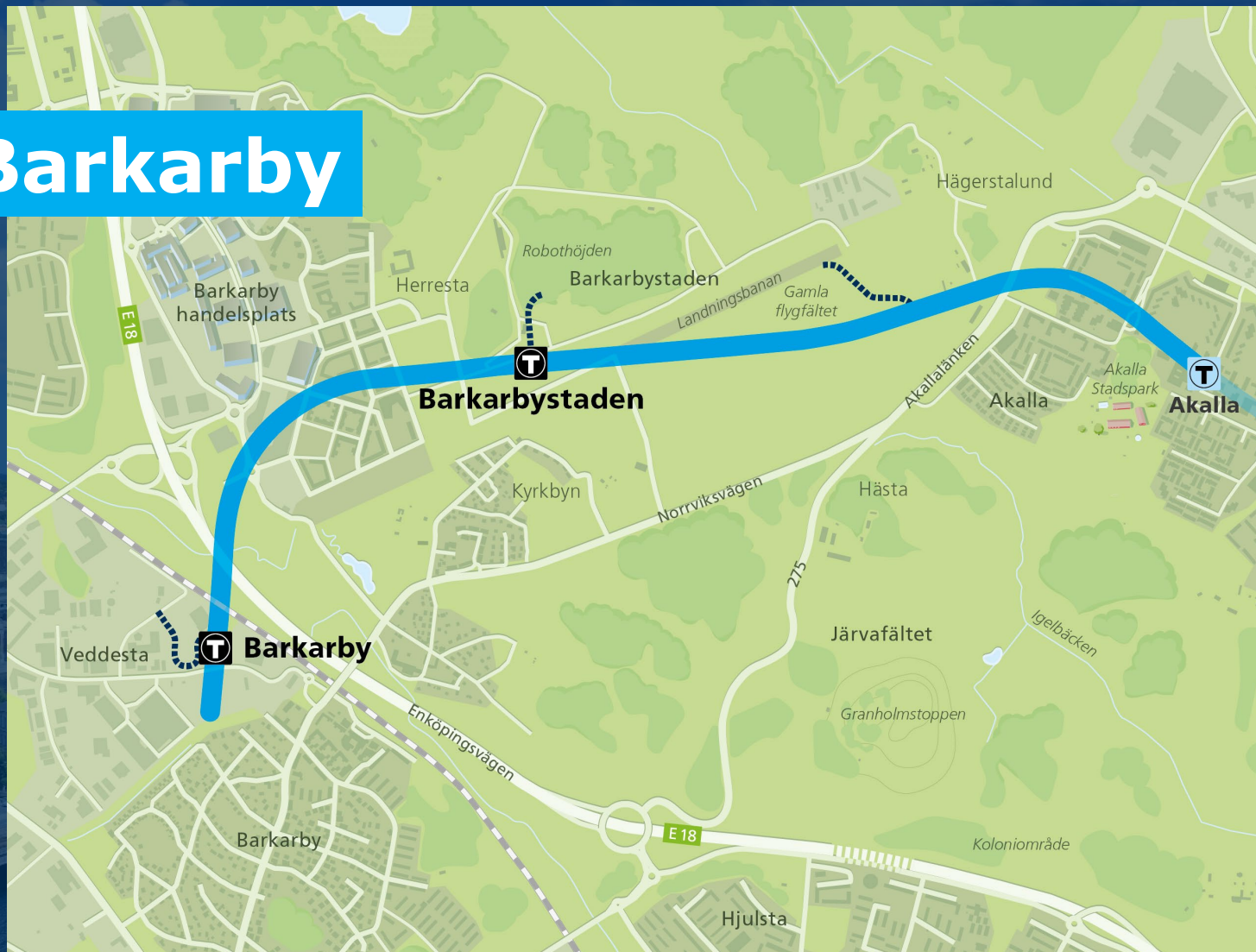


3742 BEST assembly (Track-, Electrical-, Signal- and Telecommunication works)

- Build only
- Fixed price with adjustable quantities
- Scope
 - Parallel single tracks in Stockholm and double tracks in Solna
 - Third rail
 - Signalling
- Procurement start: 2023 Q1 (May change)



Metro to Barkarby



Upcoming procurements

Track/third rail/duct/electricity 400 V

Signal

Ongoing procurements

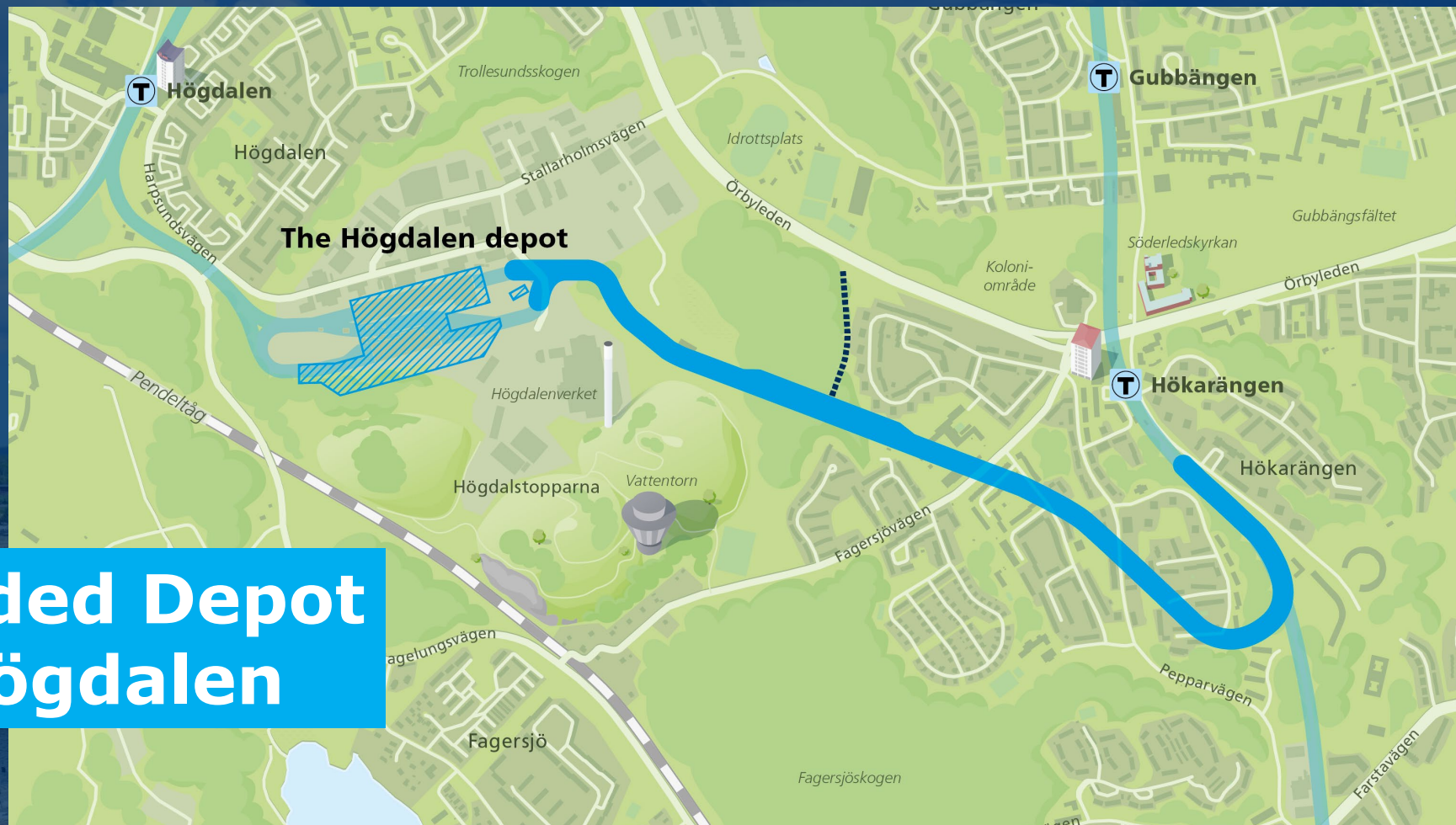
Construction, installation and telecom project: Järfälla Tunnel with stations



4744 Signalling system

- Build only
- Fixed price with bill of quantity
- Scope
 - Extension of existing system, 4 new km
 - Prebuild and install 4 signalling installations houses
- Procurement start: Q1 2021
- Planning and construction: 2022-2026





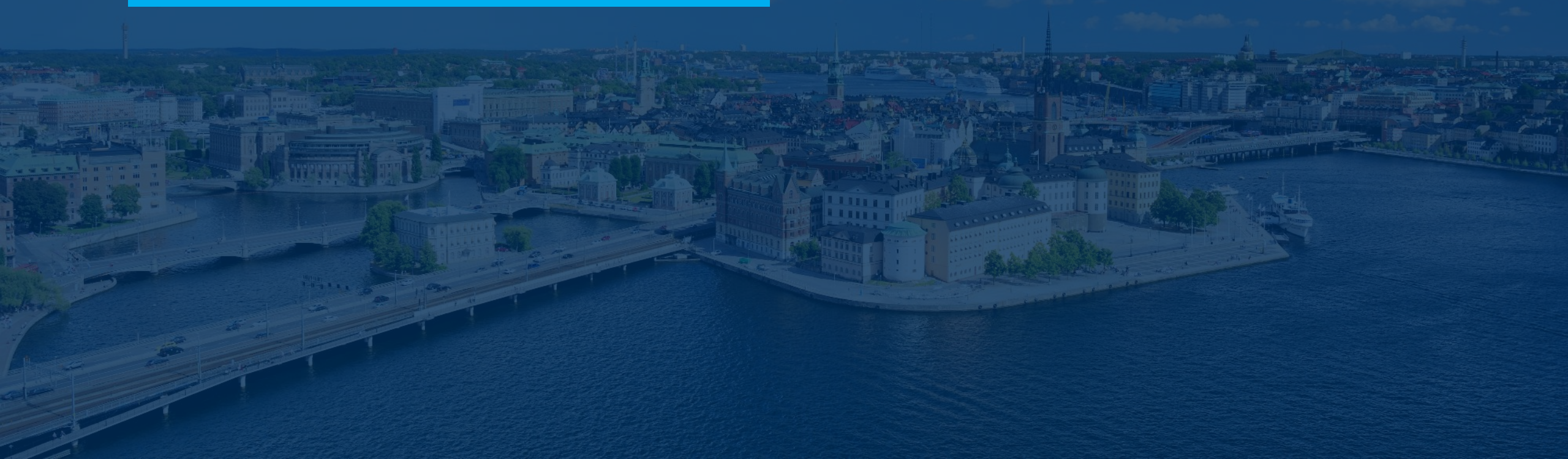
Expanded Depot at Högdalen

Upcoming procurements

5740 Track-electrical-signalling-telecom works

5713 Maintunnel

Ongoing procurements



5740 BEST assembly (Track-, Electrical-, Signal- and Telecommunication works)

Build only

Fixed price with adjustable quantities

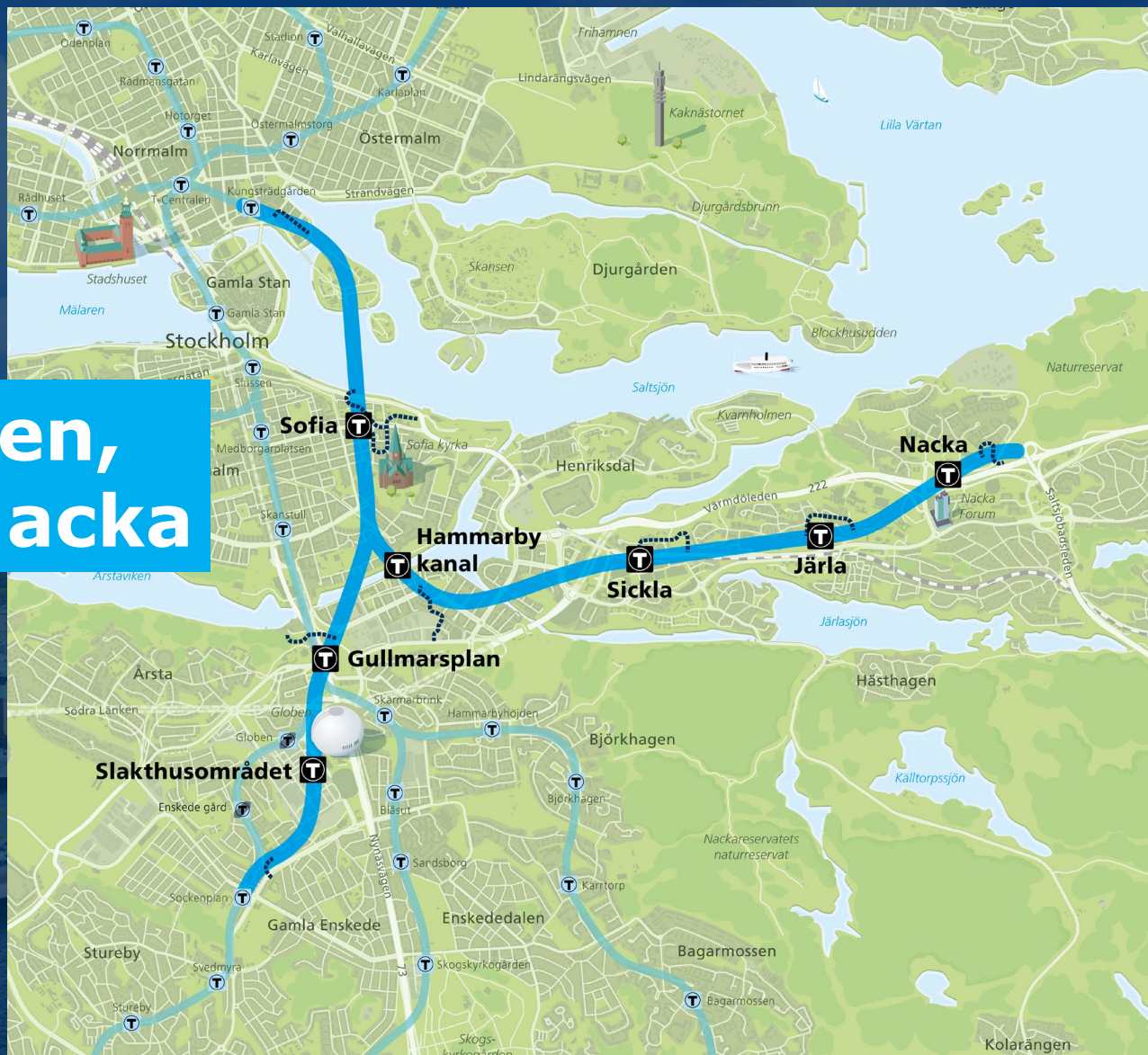
Scope:

- Tracks & mechanical third rail
- Signalling equipment
- Points including points control and points heating systems

Procurement start: November 2020



Kungsträdgården, Söderort and Nacka



General information Stations and Entrances

11 km of track in tunnel

| Station | Number of entrances/exits |
|-----------------|---------------------------|
| Sofia | 1 (Elevators only) |
| Hammarby Kanal | 2 |
| Sickla | 4 |
| Järla | 1 |
| Nacka | 4 |
| Gullmarsplan | 2 |
| Slakthusområdet | 3 |



Upcoming procurements

Building

Installation

Tunnel ventilation

Ventilation in stations

Vertical transportation

BEST track (B)

EST

Miscellaneous

Ongoing procurements

Rail and service tunnel Kungsträdgården

Civil works Nacka

Civil works Gullmarsplan

Building

Scope:

Framework supplement, ceiling, glass partition, art and more.

One contract for all 7 stations, client design contract with elements of “design and build” for example glass partition.

Name: Station building

Out: Q3 2023



Installation

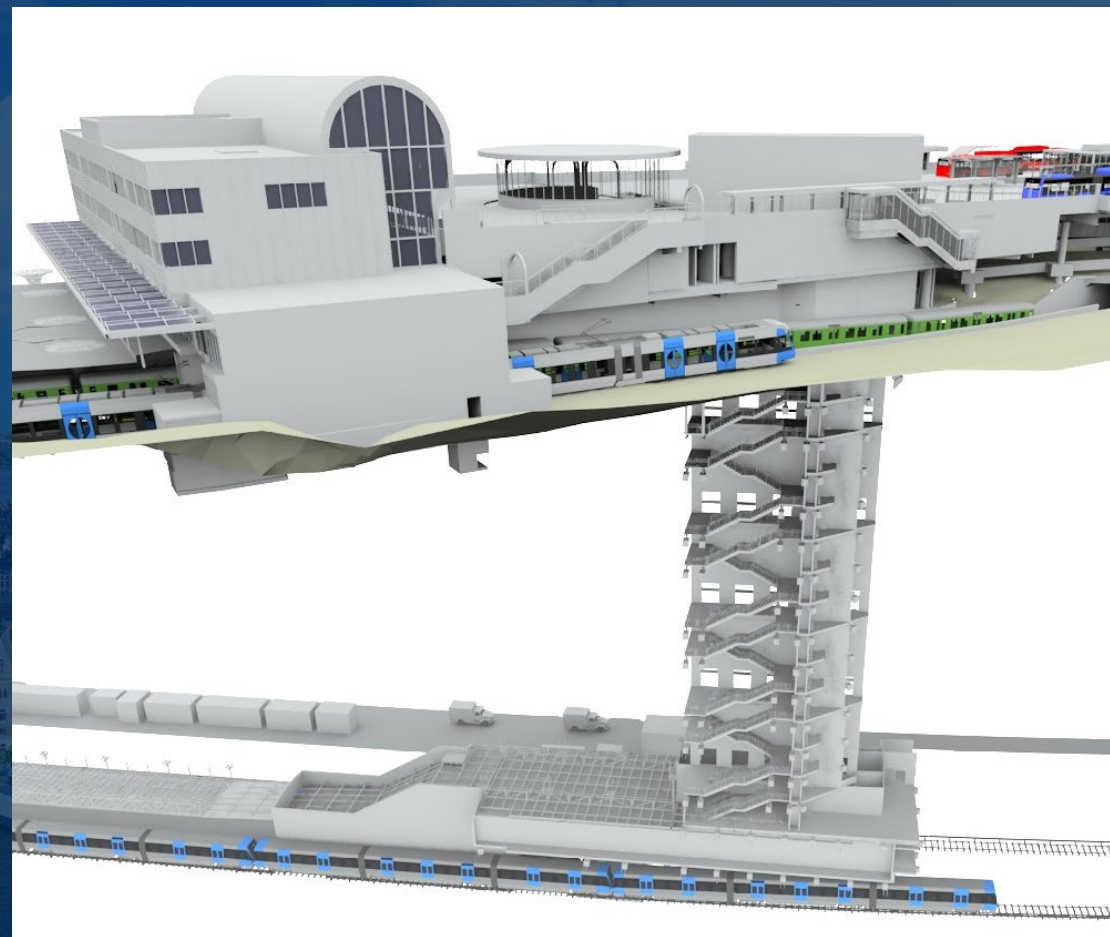
Scope:

Control and monitoring, electrical and telecommunication in stations

One contract for all 7 stations, design and build.

Name: Installation work 7 stations

Out: 2021 Q4



Tunnel ventilation

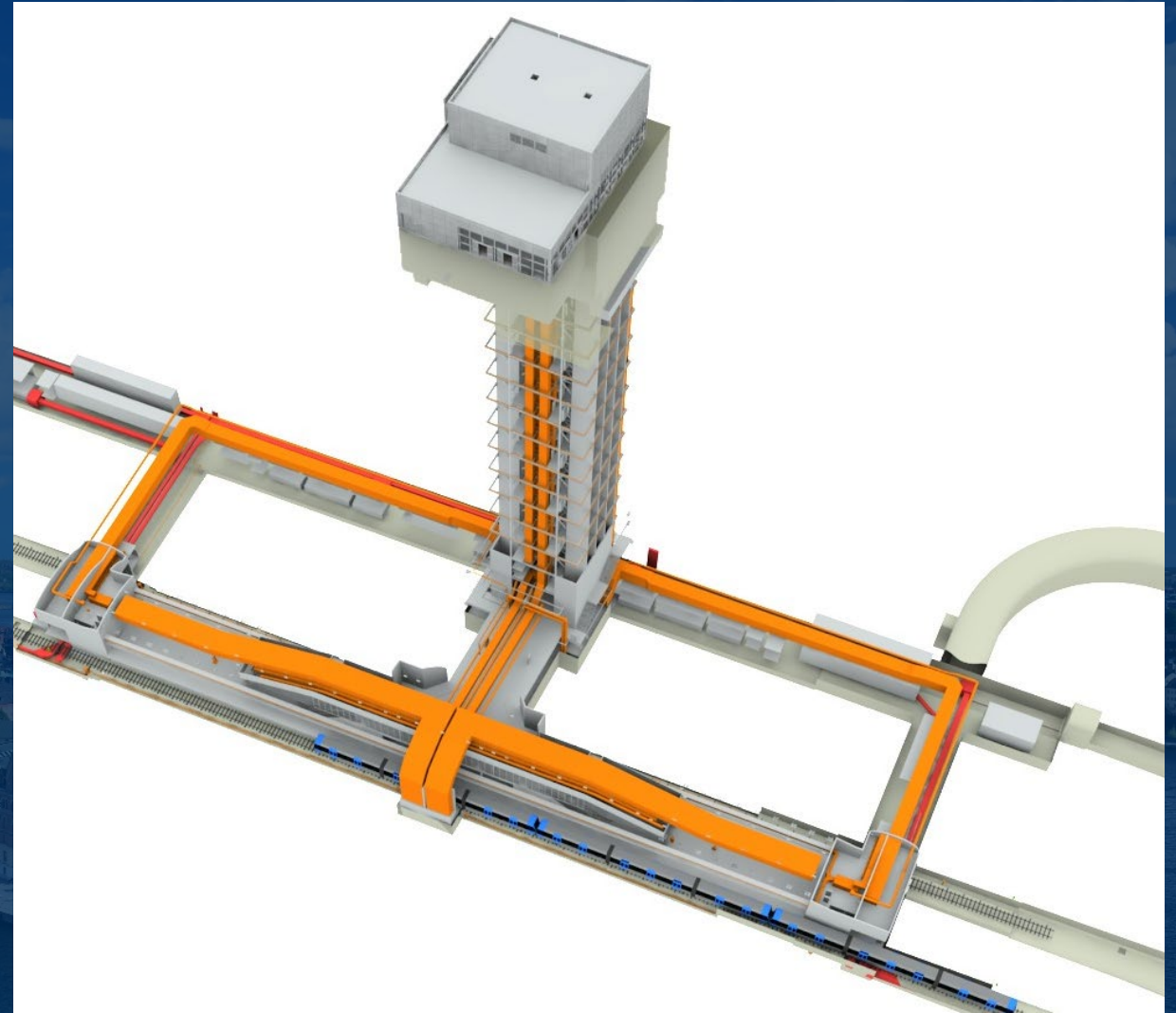
Scope:

Fire, tunnel ventilation and regular ventilation of platforms and stations.
Fans and ducts.

One contract for all 7 stations, design and build contract.

Name: Fire- and tunnelventilation

Out: 2021- Q4



Ventilation in stations

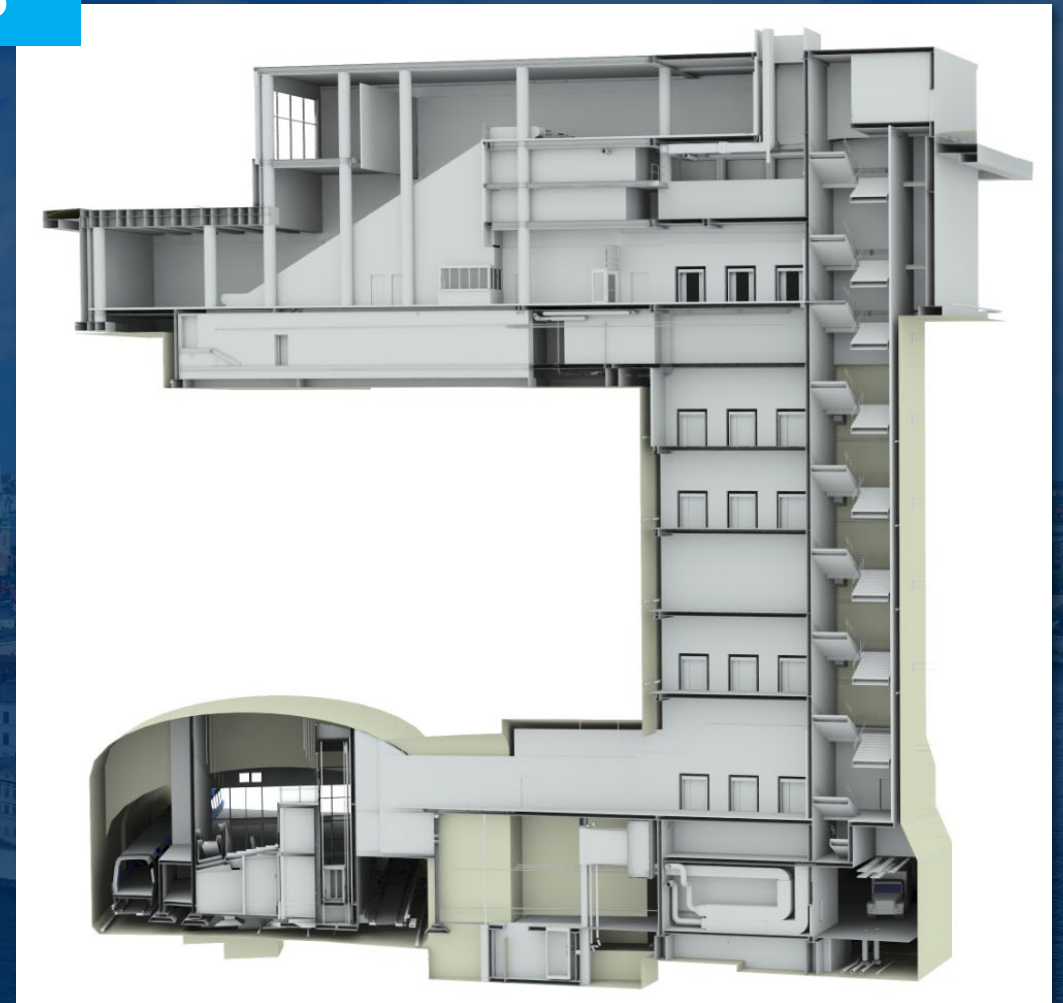
Scope:

Heating, ventilation, air condition, piping and waste water.

One contract for all 7 stations, design and build contract.

Name: Plumbing, pumping stations and ventilation

Out: 2021 Q4



Vertical transportation

Scope (5 contracts):

| | |
|------------------------------|---------|
| Escalators <30 meter (ca.44) | 2022 Q3 |
| Escalators >30 meter (ca.17) | 2022 Q3 |
| Inclined lifts (ca.12) | 2022 Q3 |
| High capacity lifts (ca.19) | 2021 Q2 |
| Lifts (ca. 21) | 2021 Q3 |

One contract for all 7 stations, design and build.



BEST Track (B)

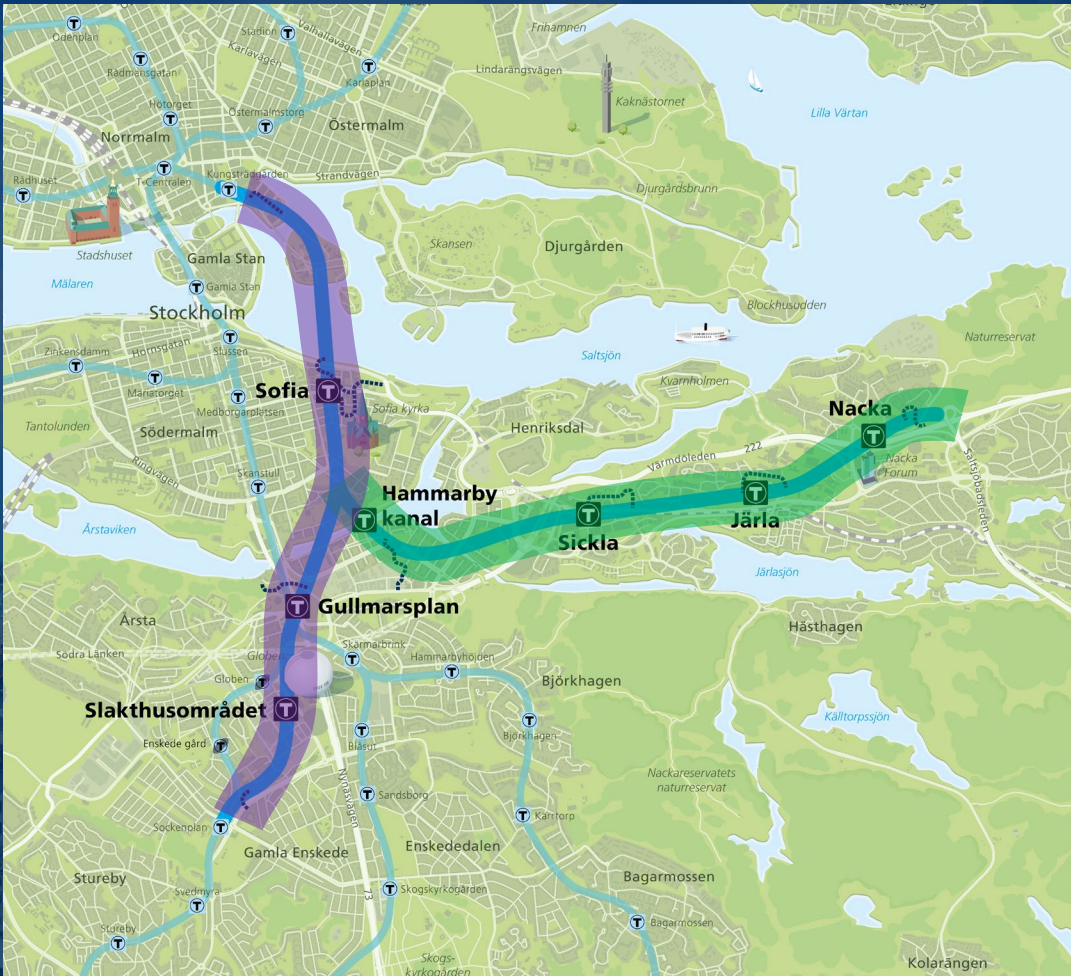
Scope (2 contracts):

Track, walking path and third rail 750V
Kungsträdgården – Hammarby kanal Sofia-
Sockenplan. (Ca. 6 km).

Track, walking path and third rail 750V Track
Hammarby kanal – Nacka. (Ca. 5 km).

Client design contracts.

Out: Both out 2022 Q1



EST

Scope (3 contracts):

Electrical & Telecommunication Q3 2022

Signal Q4 2022

Mount ducting and Cabling Q1 2023

One contract for the whole line.
Client design contract.



Miscellaneous

Scope:

Civil and building works for new rectifier substation above ground in Stadshagen.

Name: Stadshagen - Civil and building works

Out: 2021 Q4



Construction contracts

An aerial photograph of Stockholm, Sweden, showing the city's dense urban landscape and its unique architecture built on islands and connected by bridges. The water of the harbor is visible in the foreground and middle ground. The entire image is overlaid with a semi-transparent dark blue filter.

**Blue line to
Barkarby**

**Blue line to
Nacka and
Söderort**

**Expanded Depot
at Högdalen**



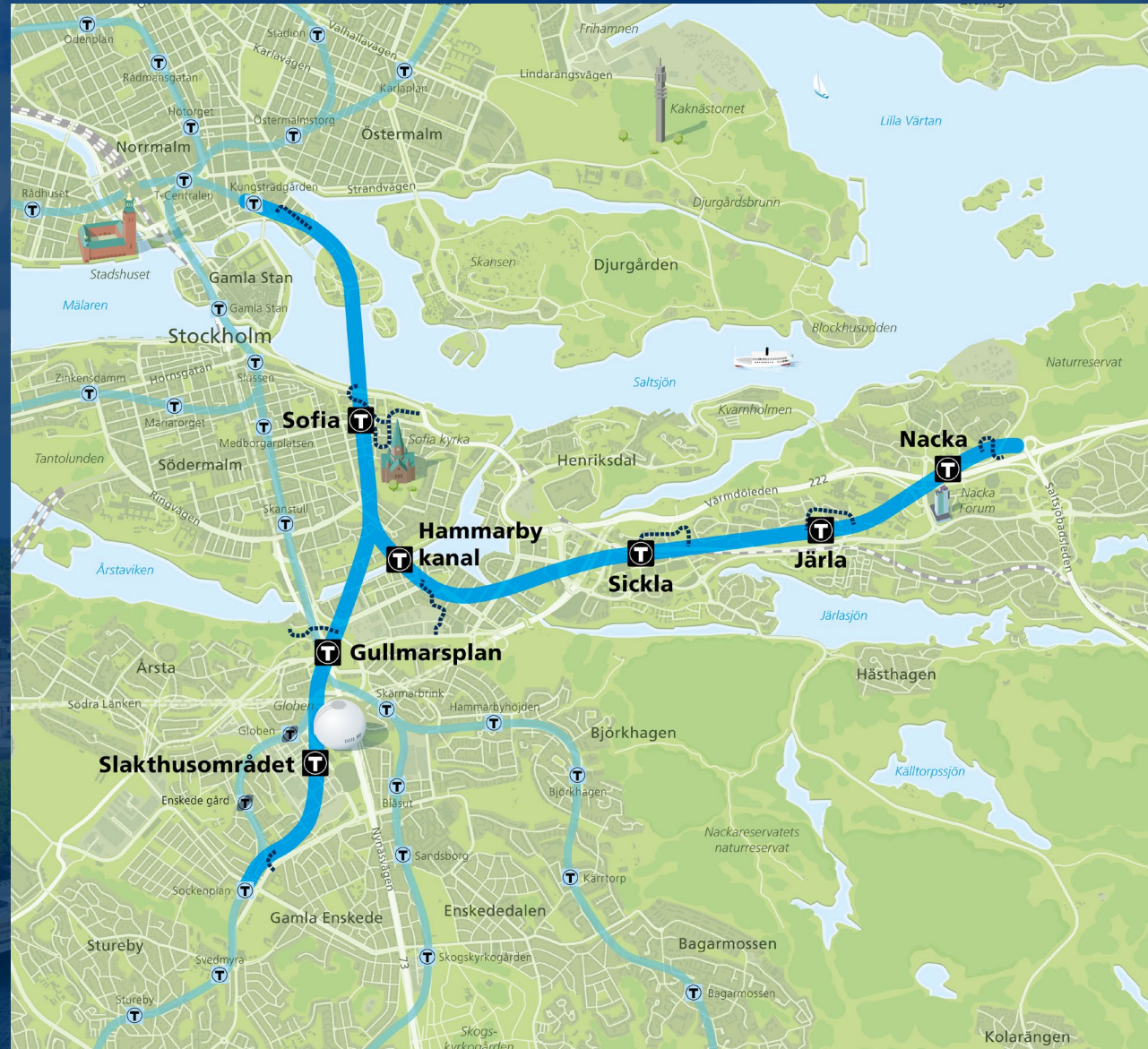
Upcoming procurements

Rock excavation and civil works for track tunnels and stations including concrete works

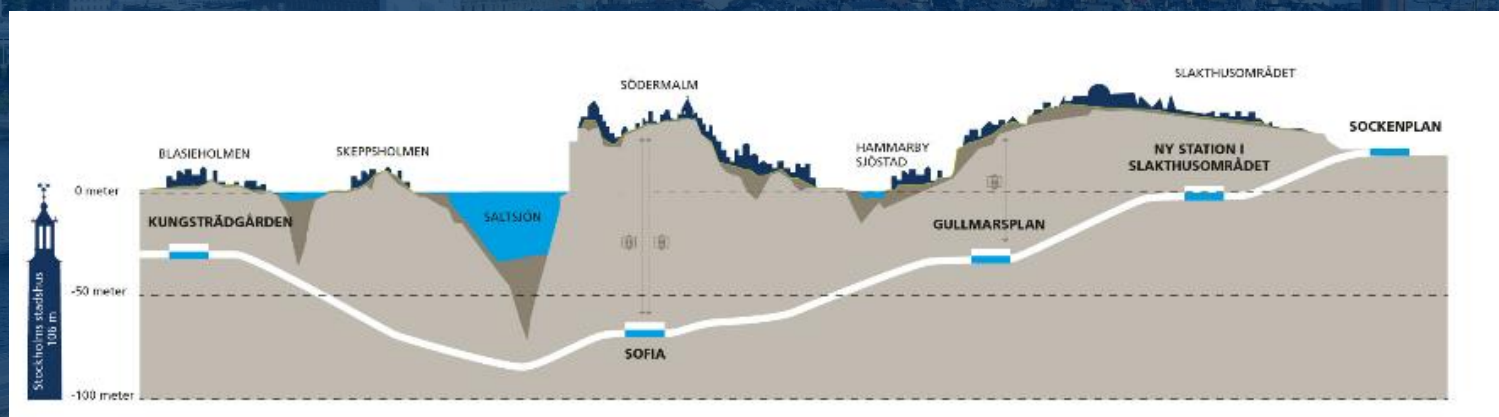
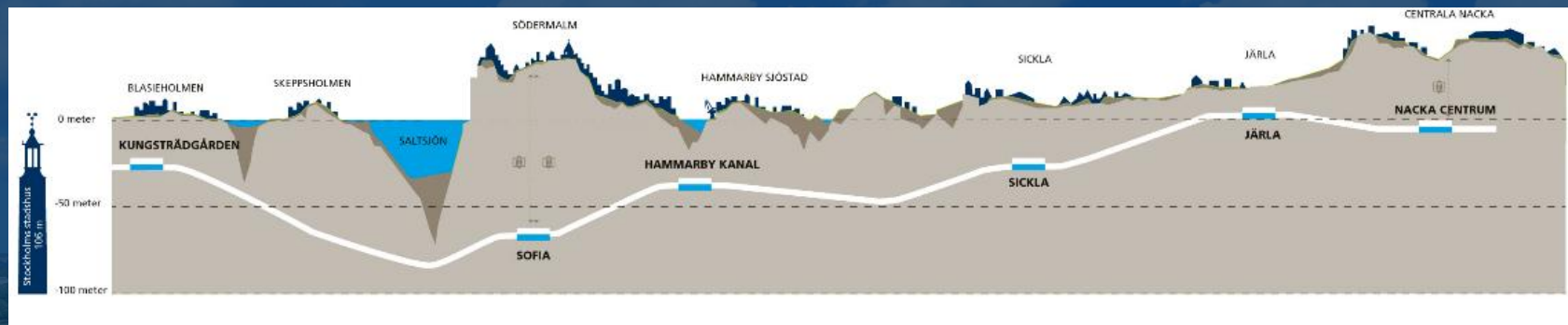
Each contract is executed through an existing access tunnel

Contractual form

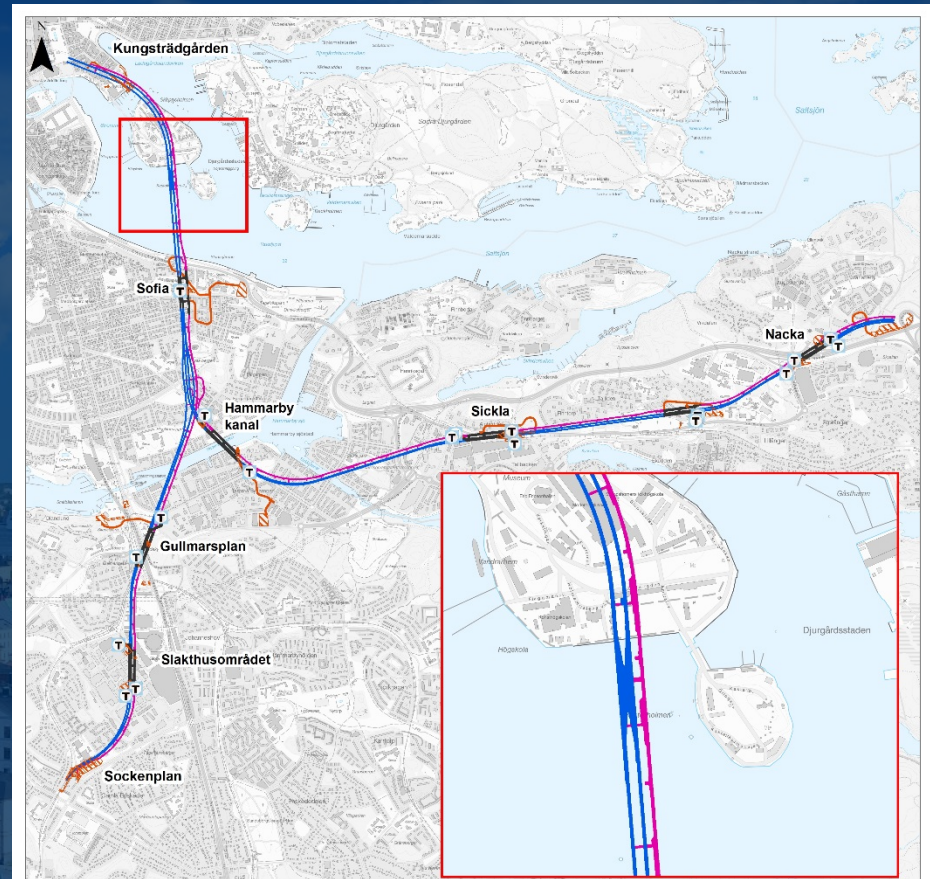
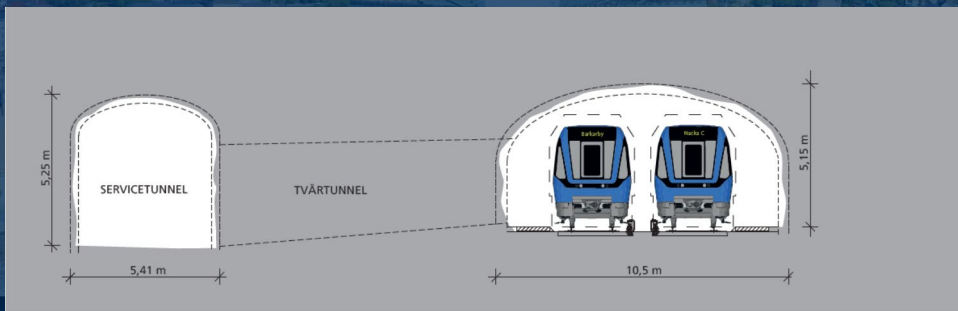
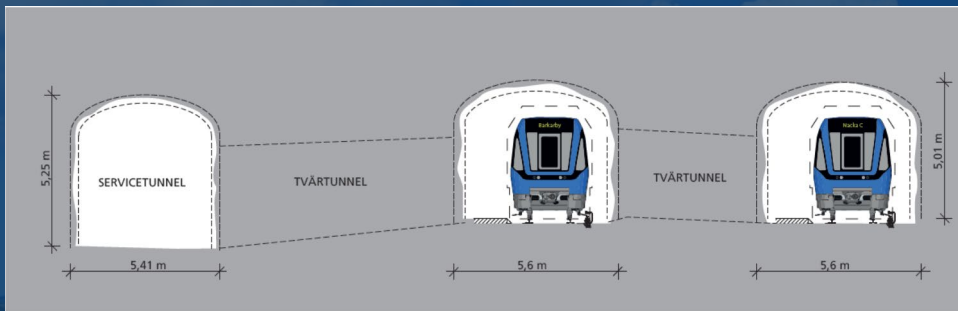
- Build only
 - Except concrete constructions and temporary constructions
- Fixed price with adjustable quantities



Rock tunnels



Track and service tunnels

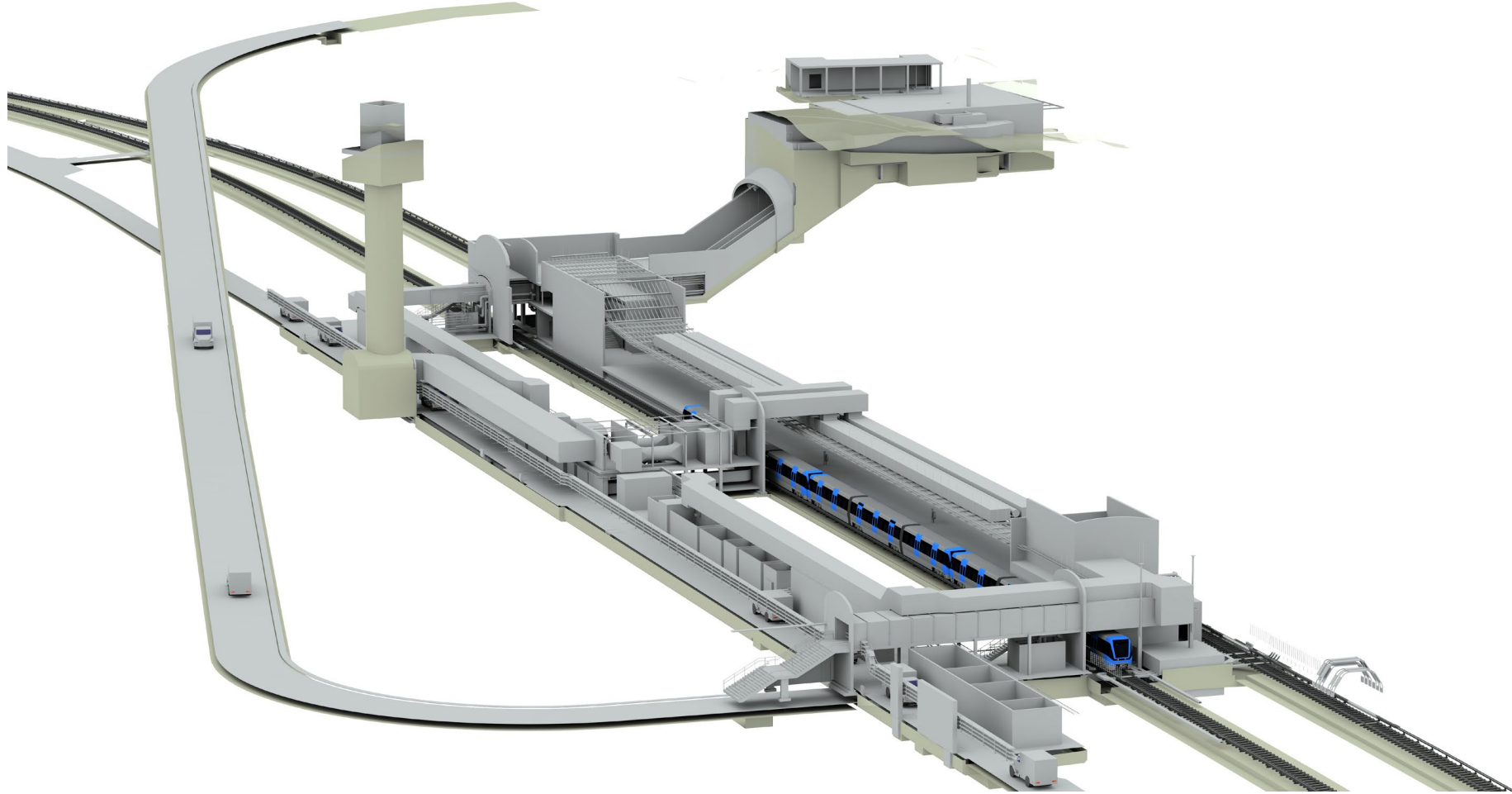


Teckenförklaring

- Stationsentré
- Station
- Spårtunnel
- Etableringsyta
- Arbetstunnel
- Servicetunnel



Stations



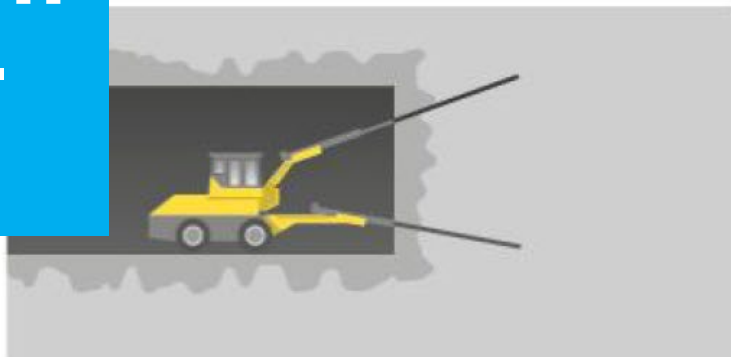
Stations



Stations



Construction methods - Tunneling



Förinjektering: hål borrar runt tunneln



Injekteringsbruk sprutas in i borrhål och sprickor



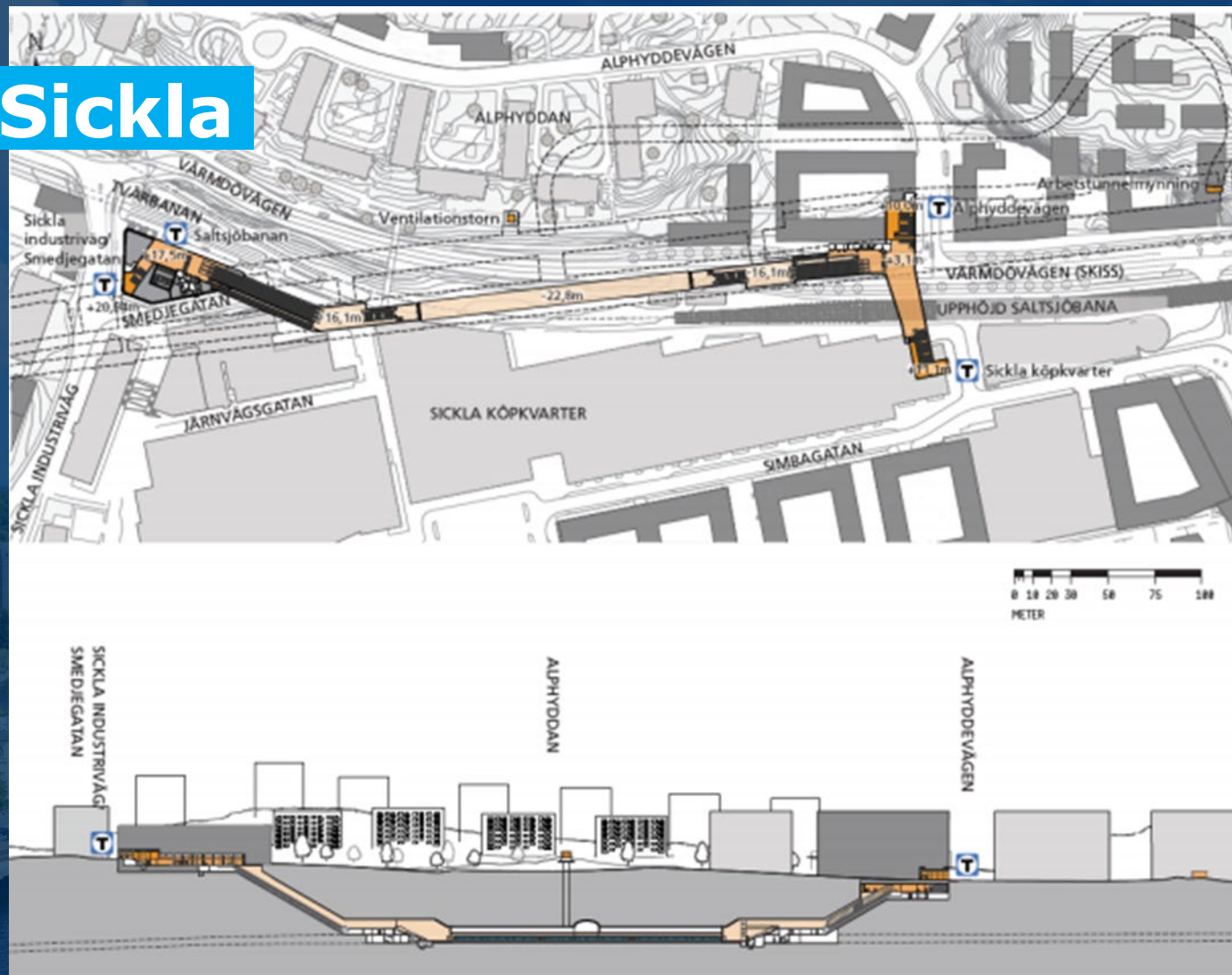
Borrning för sprängning



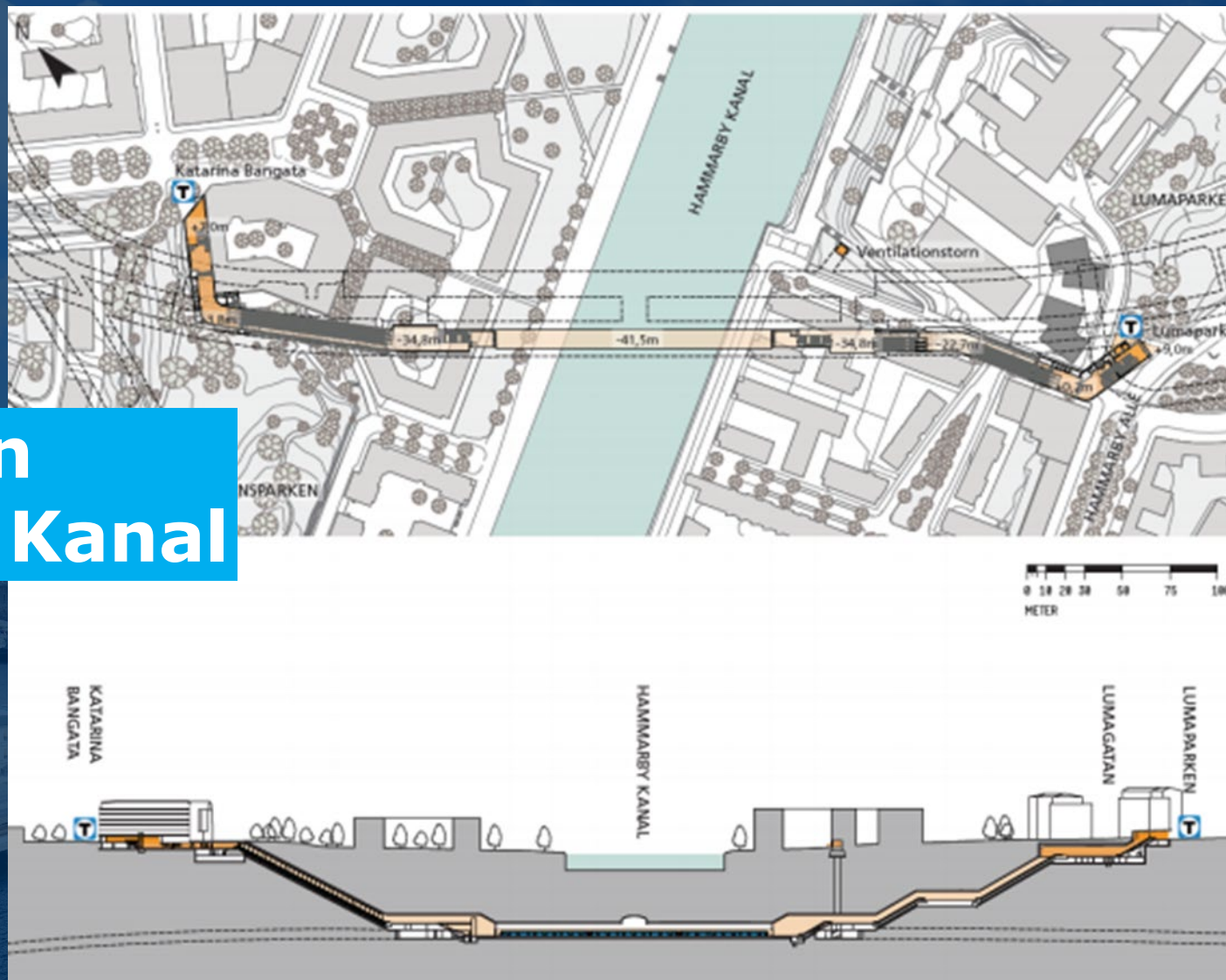
Utlastning



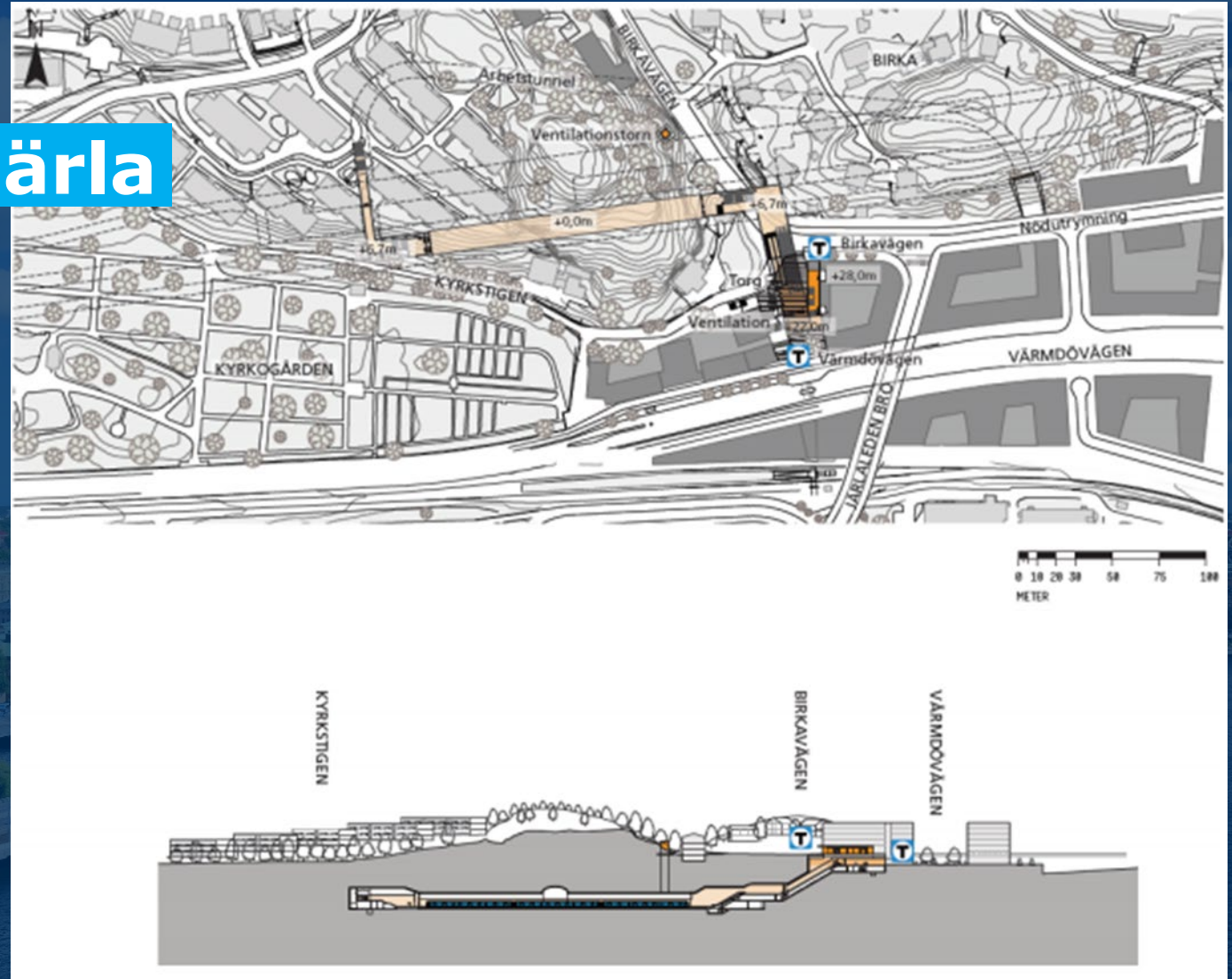
Station Sickla



Station Hammarby Kanal



Station Järsla



Station Slakthusområdet

