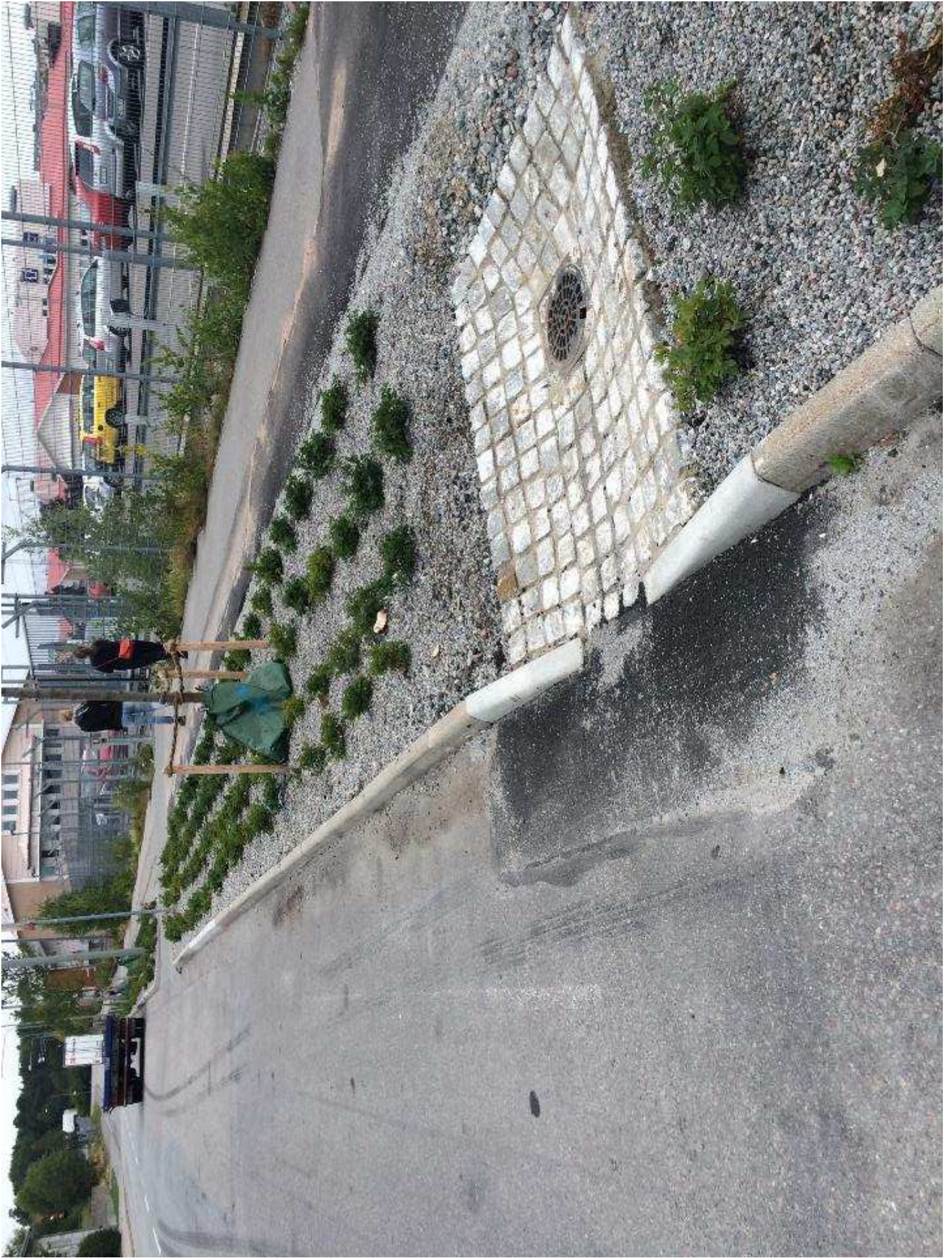




Haukadalsgatan kolgrus







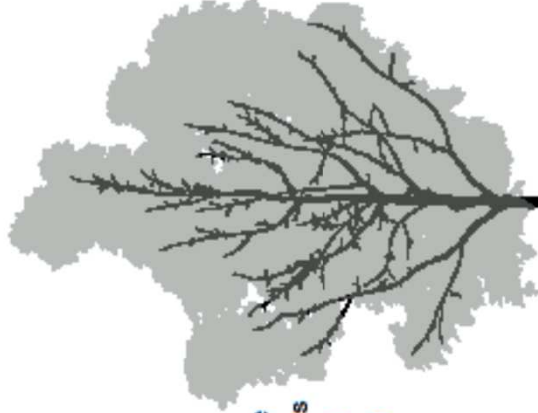
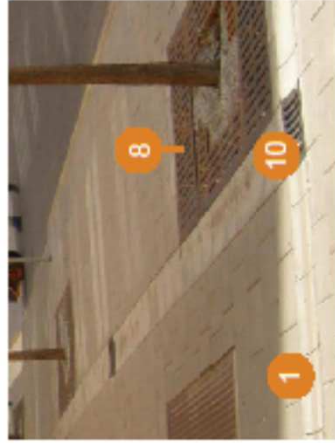
Magnus Ladulåsgatan Stockholm

Biochar with infiltration of stormwater

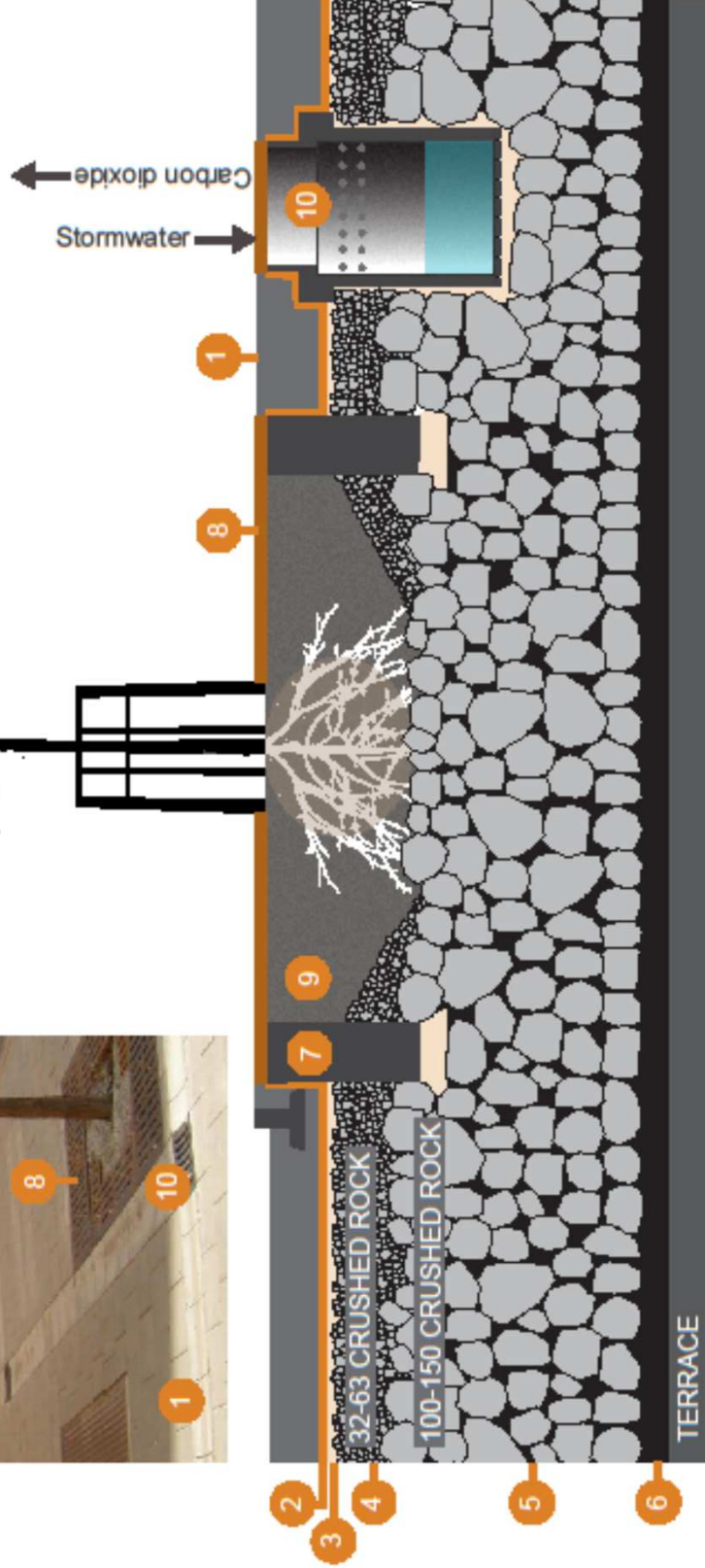
- Image # 1. Plant bed renovation a block of Magnus Ladulåsgatan where we follow our drawing 'structural soil with biochar'.
- The stone and biochar, Concrete box where the tree is planted,

Structural soil with biochar

A method for building with stability and to create good growing conditions for trees in paved areas with the use of stormwater and the added value of decreasing the risk of roots damaging paving or underground pipes

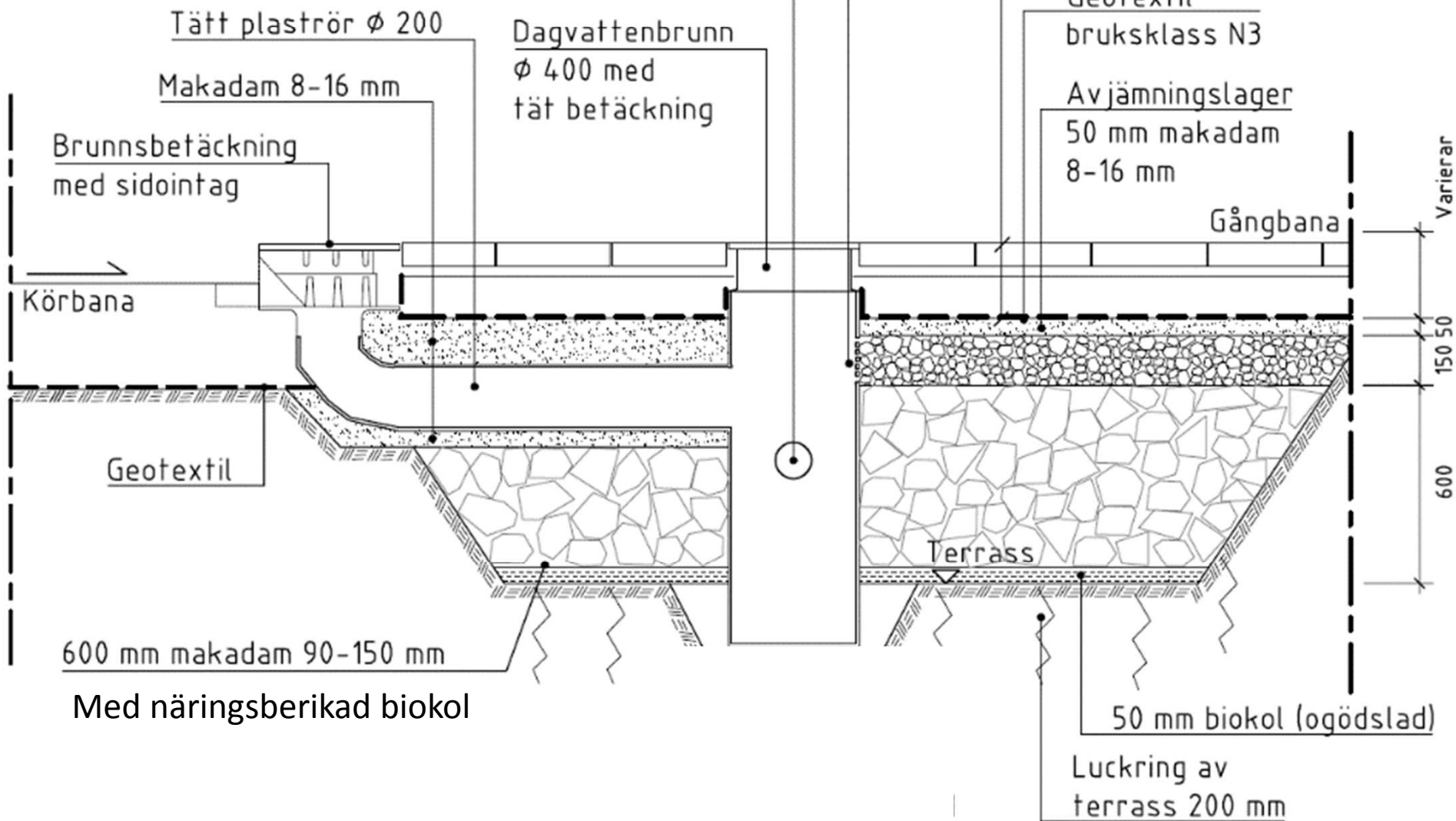


1. Paved surface with dished stormwater gutters
2. Geotextile
3. Leveling layer (crushed rock 8-16 mm) – also used for concrete bunker and water/air inlet.
4. Aerated bearing layer (crushed rock 32-63 mm)
5. Structural soil (crushed rock 100-150 mm) with fertilized biochar hoses into the structural volume
6. Pure biochar on terrace
7. Concrete bunker
8. Surface grid
9. Crushed rock with fertilized biochar
10. Inlet for air and water supply



Infiltrationsrör ϕ 110 (längd ca 4 m)
förläggs i två riktningar från brunnen
längs med växtbädden

Lufthål placeras i höjd
med luftigt bärlager







Nybrogatan Stockholm

Biochar with infiltration of stormwater

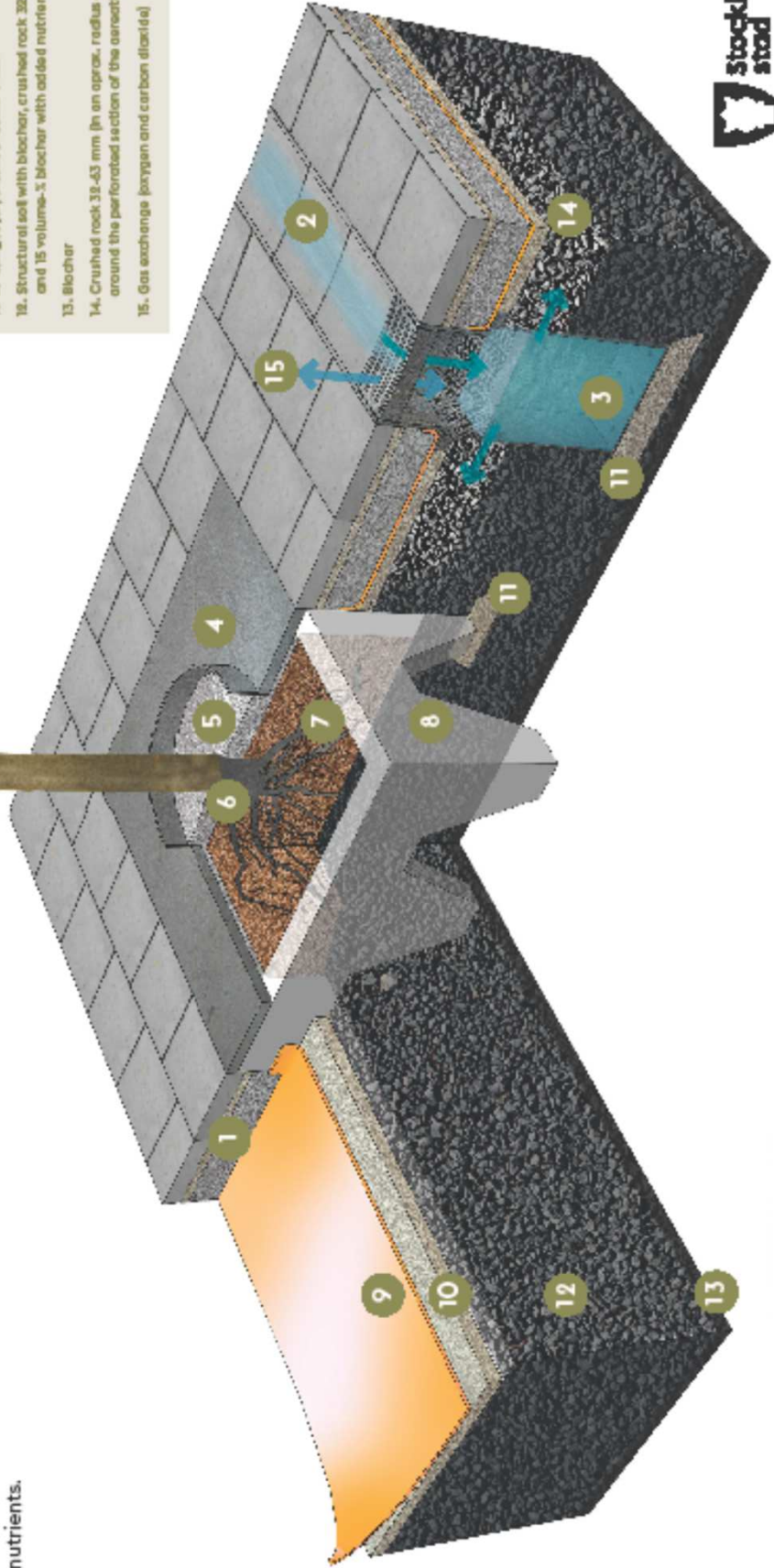
- Plant bed renovation a block of Nybrogatan where we follow our drawing 'structural soil with biochar'. Some of the old trees were saved.
- The stone and biochar are mixed before the material is laid down, 15% by volume biochar.
- Closest to the roots of saved trees added a mixture of crushed granite and 25% manured biochar.
- Concrete box where the tree is planted, in it you can see macadam mixed with 15% biochar

STRUCTURAL SOIL WITH BIOCHAR

The City of Stockholm have set as a goal to create sustainable and durable plant beds from locally sourced materials. Structural soils with biochar binds carbon from the atmosphere and reduces leaching of nutrients.



1. Paved surface and base course
2. Stormwater gutter
3. Aeration well: Inlet for water and oxygen & carbon dioxide exchange
4. Surface grid
5. Stone mulch, crushed rock 4-8 mm
6. Root collar at nursery growing level
7. Crushed rock 4-8 mm with 25 volume-% biochar with added nutrients
8. Concrete barrier
9. Geotextile
10. Levelling layer, crushed rock 8-16 mm
11. Levelling layer, crushed rock 8-4 mm
12. Structural soil with biochar, crushed rock 30-63 mm and 15 volume-% biochar with added nutrients
13. Biochar
14. Crushed rock 30-63 mm (in an approx. radius of 0,5 m around the perforated section of the aeration well)
15. Gas exchange (oxygen and carbon dioxide)



Nybrogatan 2015
Kolmakadam

