

# CENTRAL WATERFRONT COMMUNITY UPDATE

## MEETING #2



# QUEENS QUAY DETAILED DESIGN

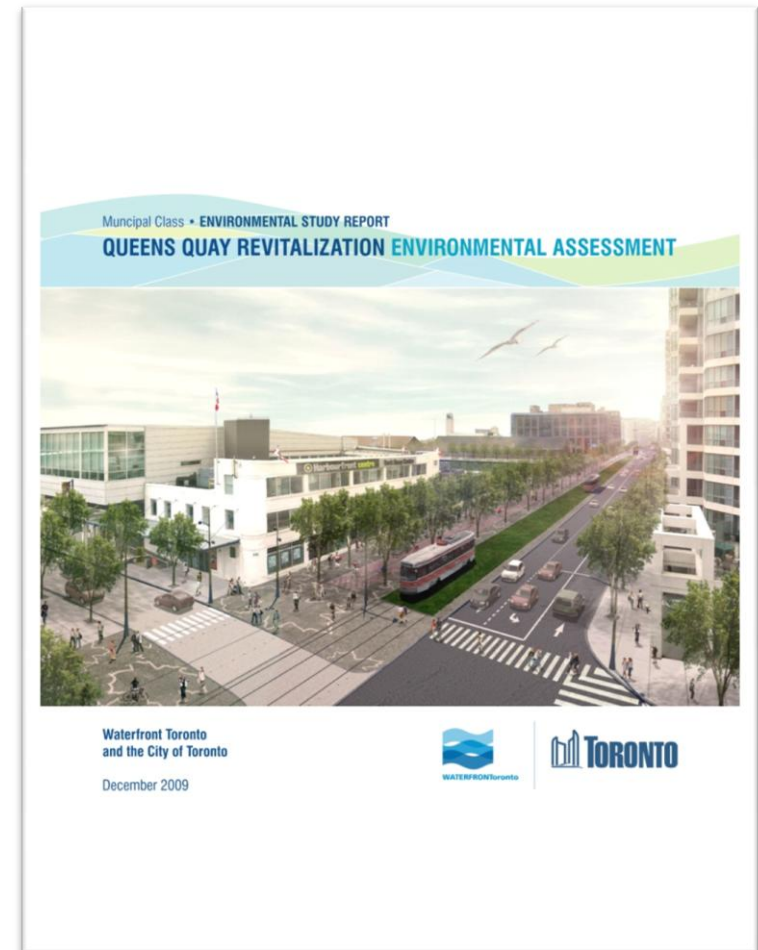
Christopher Glaisek, Waterfront Toronto  
Jelle Therry, West 8+DTAH



**WATERFRONT**Toronto

# Queens Quay EA

- Queens Quay EA was approved by Toronto City Council in October 2009
- Approved by Ministry of the Environment in April 2010
- This three and a half year study included extensive public engagement to help select, develop and refine the preferred alternative. This included:
  - Four well advertised public meetings with over 200 - 500 participants at each
  - Facilitated discussions with representative stakeholders
  - Over 60+ meetings with local residents, businesses and other neighbourhood stakeholders
  - Regular email and newsletter updates
  - Extensive media coverage



# Preferred Alternative



- Balances space for all modes of travel
- Continuous off-street Martin Goodman Trail, completing the Lake Ontario Trail
- Vastly improved urban tree canopy/a linear park
- Improves transit experience
- Generous pedestrian boulevards
- Provides greatest opportunity for a world-class waterfront street
- All this while accommodating traffic and access to all sites

# Queens Quay Status

- Queens Quay Detailed Design commenced in mid-2010
- Near complete Schematic Design (first phase of the detailed design process)
- Undertaking a Request for Proposals for a Construction Manager for the site
- Commencing a detailed survey of the site in preparation for construction
- Full coordination with Utility Companies, TTC and City Transportation underway



# Queens Quay Public Outreach

- Queens Quay Working Group with 23 residents, community/special interest and business representatives
- Queens Quay Working Group has met monthly since July and more recently bi-weekly in order to obtain feedback on Schematic Design
- Site visit including full scale mock-ups with Queens Quay Working Group
- Upcoming Drop-In Session for general public where Schematic Design Plan for Queens Quay will be available for one-on-one discussion with team members (details provided on the handout provided tonight)



# Queens Quay Phasing/Funding

- The revitalization of Queens Quay from Spadina to Parliament Street is estimated at approximately \$192 million
- Phase 1 for Queens Quay is funded in Waterfront Toronto's Long Term Plan, this includes 800 metres in the Central Waterfront District
- In addition full detailed design from Lower Spadina to Parliament Street is funded, this will ensure that although the street construction will be phased there will be a consistent and coordinated design
- Waterfront Toronto is exploring the exact extents of this Phase 1 and will report back to the community on this during the detailed design phase
- This decision in no way delays construction timing which is still expected to commence in 2011

# Queens Quay Schedule

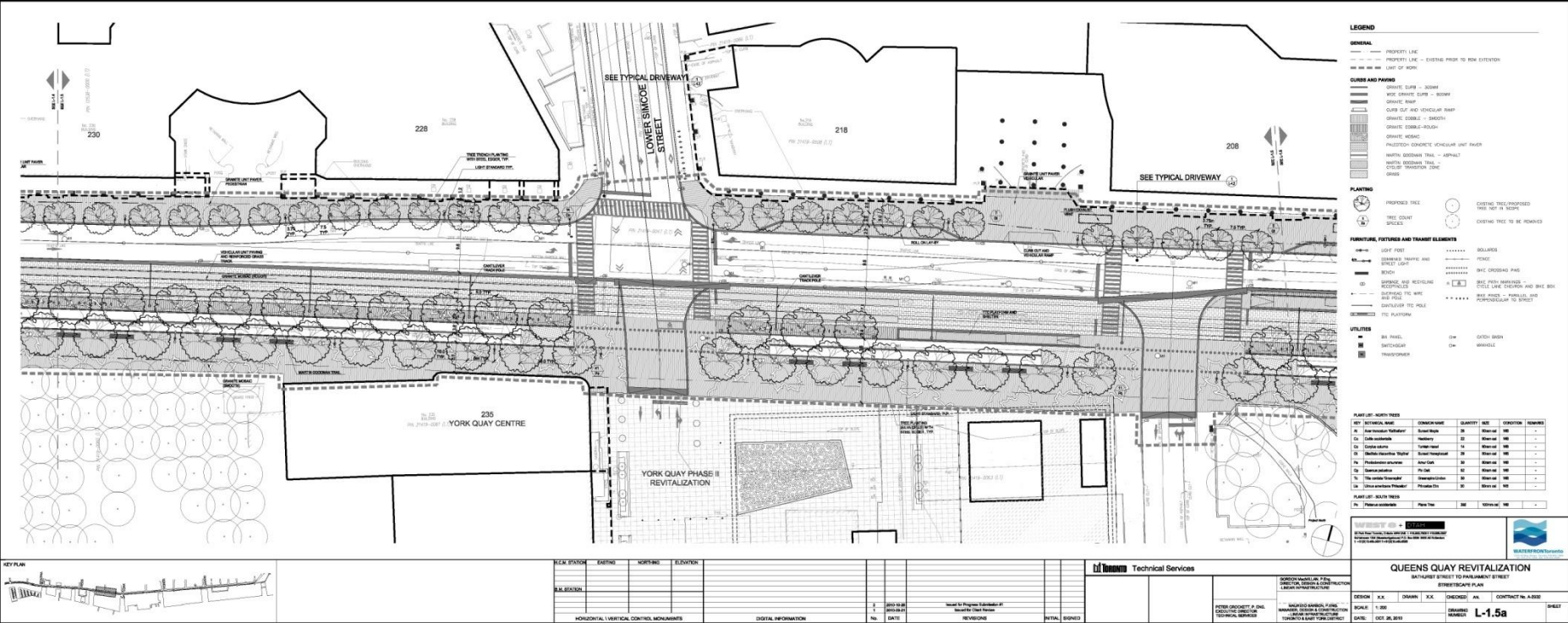
- Fall 2010 – Complete draft Schematic Design for Stakeholder & Public Review
- Early 2011 – Retain a construction manager to aid in developing construction staging & traffic management plans
- Winter 2011 – Complete draft Detailed Design for Stakeholder & Public Review (this will include a phasing strategy and construction staging)
- Spring 2011 – Complete Construction ready drawings
- Mid 2011 – Commence Construction on Phase 1 in the Central Waterfront





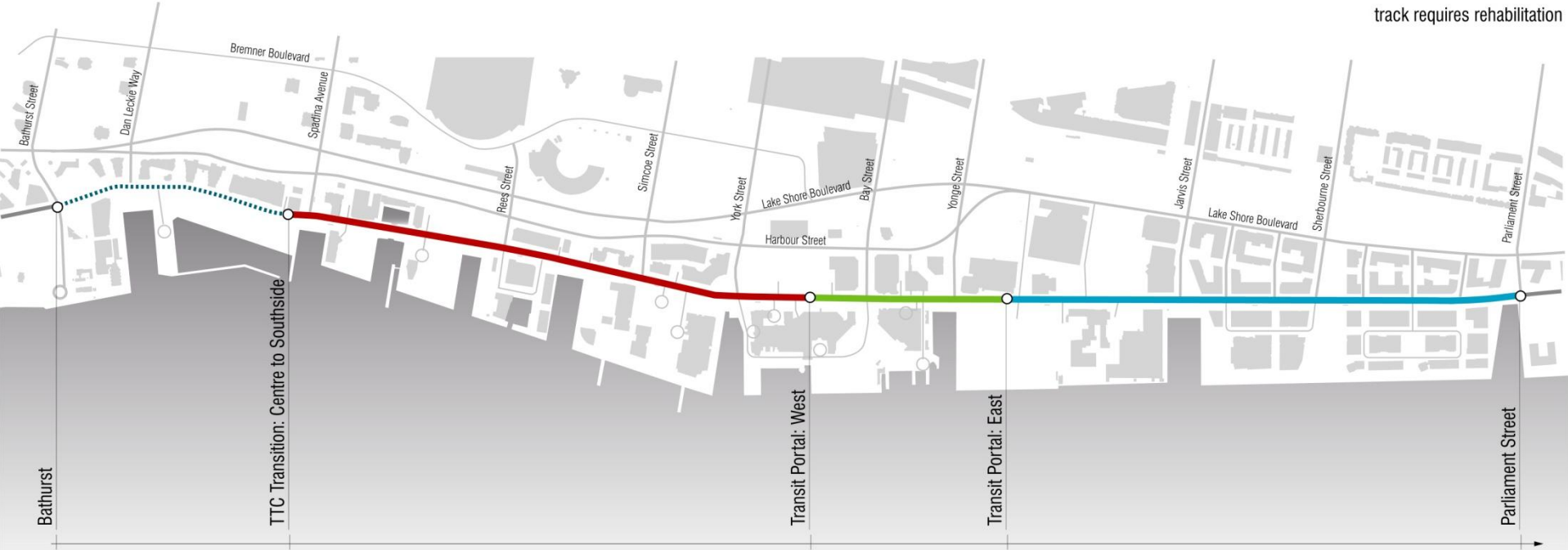
# SCHEMATIC DESIGN

## Queens Quay



# PROJECT BOUNDARIES

- Track Rehabilitation
- New TTC Track
- Transit Below Grade
- Potential future phase when track requires rehabilitation



Toronto Inner Harbour



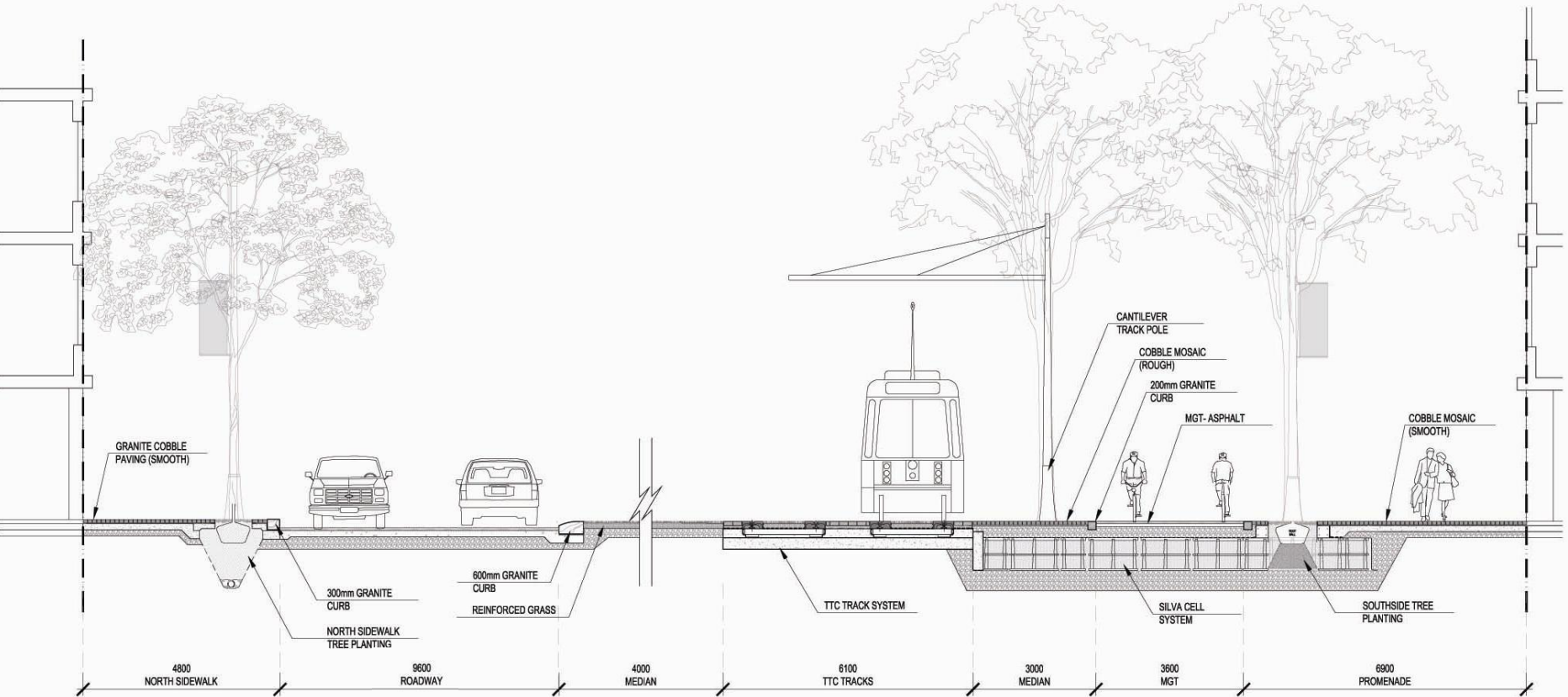
Not to Scale

# VISION

Queens Quay



# TYPICAL SECTION



# STREET ELEMENTS

## Materials

### Paving Surfaces

**Granite Mosaic**  
2-tone granite pavers forming mosaic leaf pattern (Outline and Silhouette)



Outline leaf mosaic

**Granite Types**  
Canadian Red and San Sebastian Grey for Mosaic; Caledonia Grey for curbstones on streetscapes



Royal Canadian Red



San Sebastian Grey



Caledonia Grey  
Granite cobbles  
Size: 90 x 90 x 80mm  
Top finish: Light Waterjet  
Side finish: Split  
Joints: 5-8mm

**Concrete unit paver**  
Paleo Tec auto-blocking precast pavers



Paleo Tec - light grey

### Materials & Finishes

**Wood**  
Yellow Cedar - Structural Timbers  
Ipe - Decking and Benches

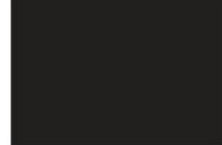


Yellow Cedar - Structural Glulam Timbers

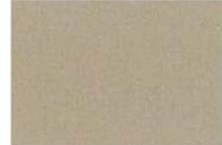


Ipe - Decking and Benches

**Metal Finishes**  
Laser cut steel and cast aluminum with paint system application  
Galvanized steel  
Stainless Steel - brushed



RAL 7016 Anthracite grey



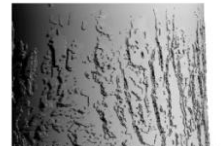
RAL 7048 Pearl mouse grey



Galvanized steel

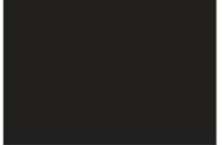


Stainless steel - brushed

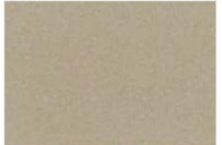


Cast Aluminum - sand mold, bark texture

**Colours**  
For use on signage applications



RAL 7016 Anthracite grey



RAL 7048 Pearl mouse grey



Pantone



Pantone



Pantone

**Details**  
For use throughout the waterfront



Stainless steel guiding spots



Stainless steel handrail



Stainless steel bollard



Galvanized steel mooring



Galvanized steel toe rail



Large sized toe rail



Garbage & Recycling bin



Preserve existing mooring elements where possible - paint anthracite grey (RAL 7016)

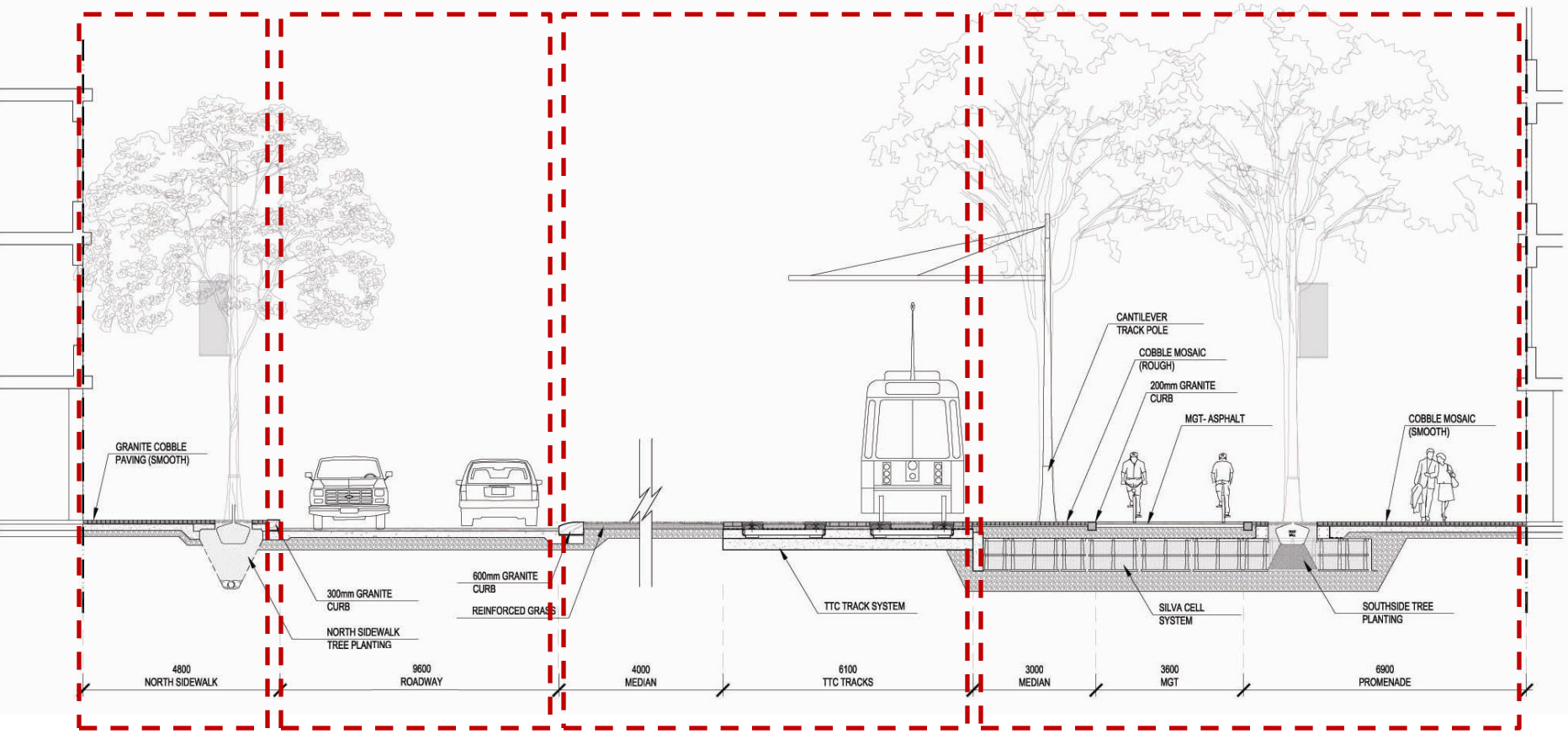


Yellow coated warning spots





# PROGRAM



**NORTH SIDE  
SIDEWALK**

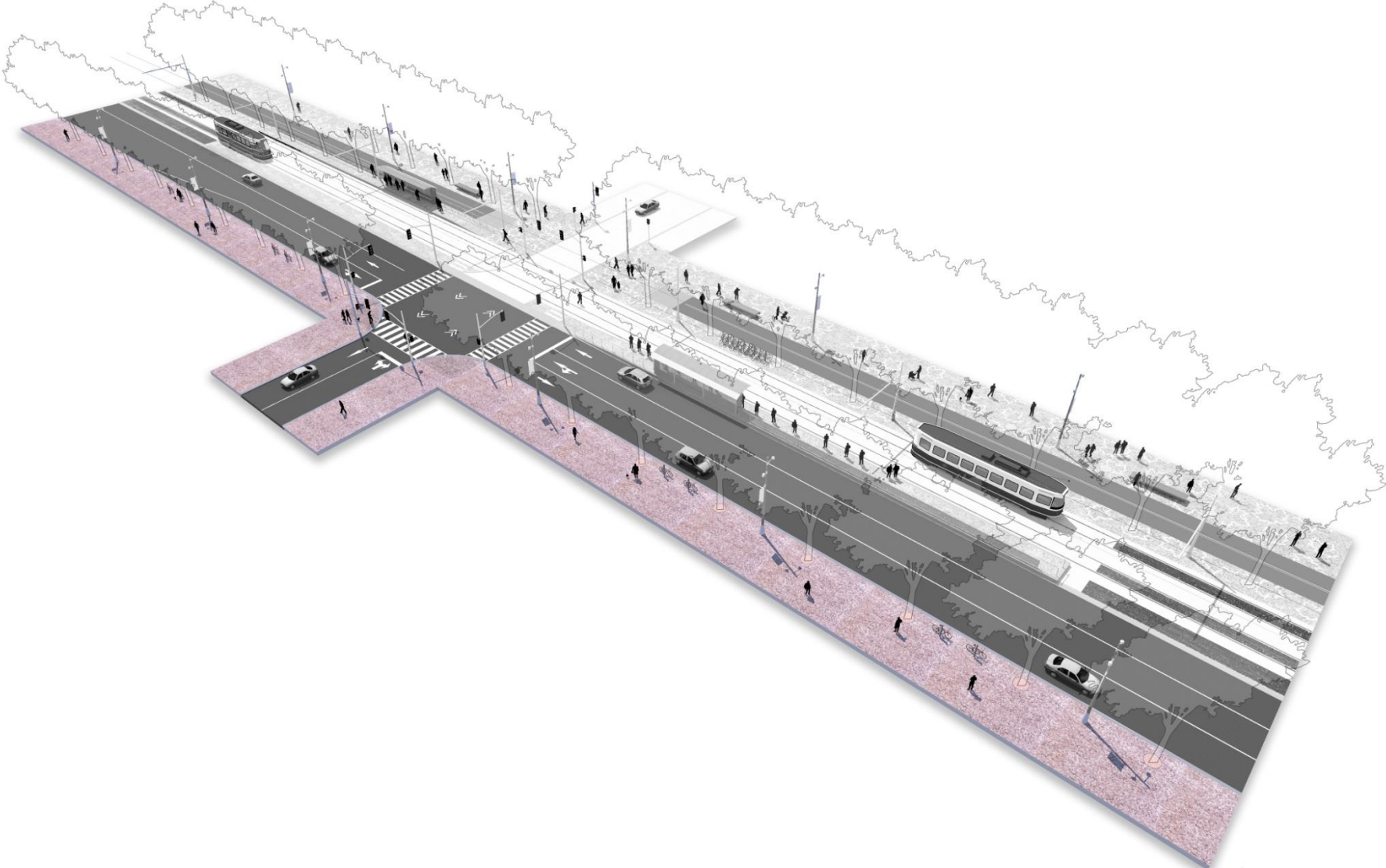
**ROAD**

**TTC RIGHT OF WAY  
PLATFORMS**

**MGT  
PROMENADE**

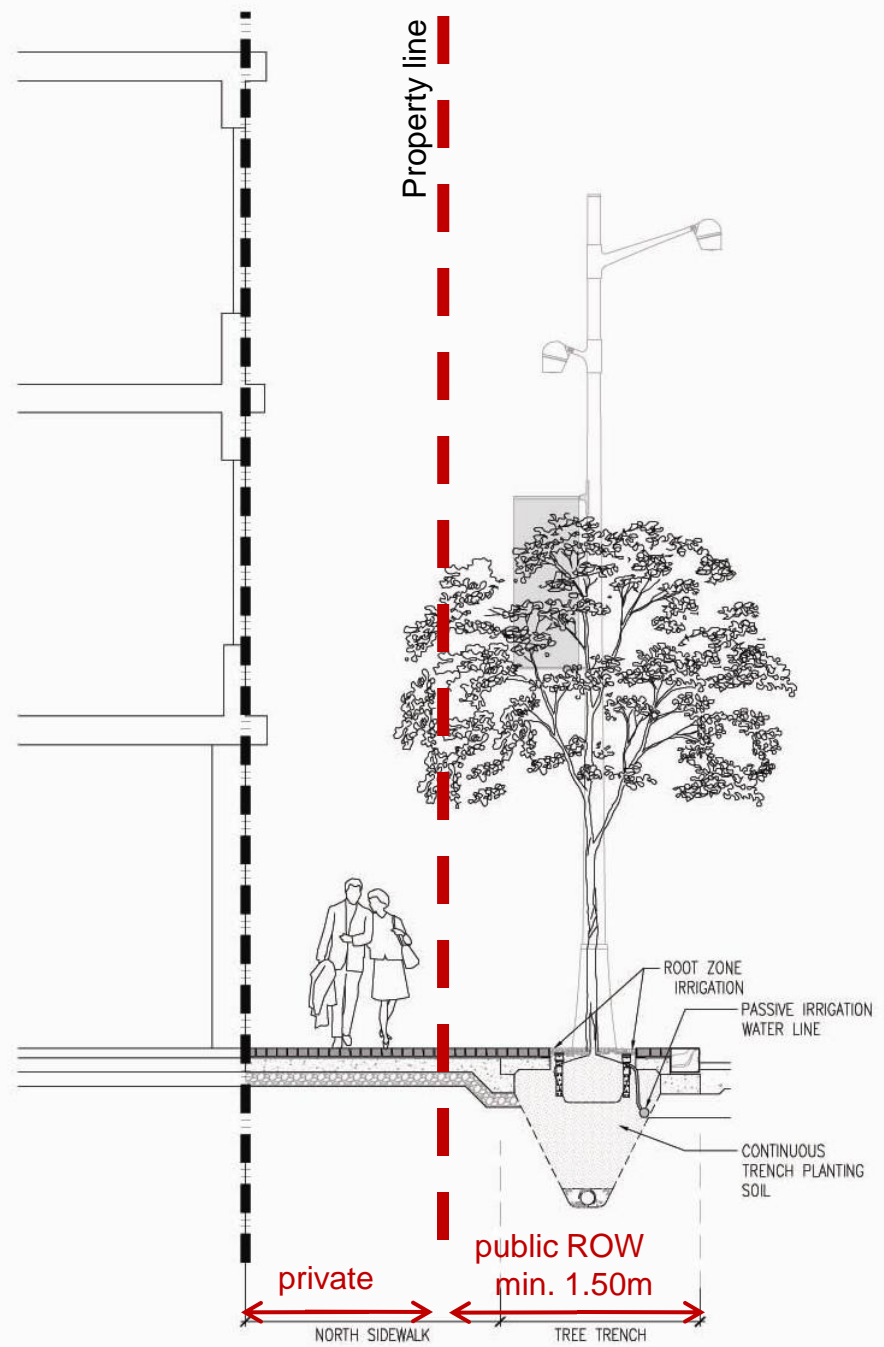


# 1. NORTH SIDE WALK



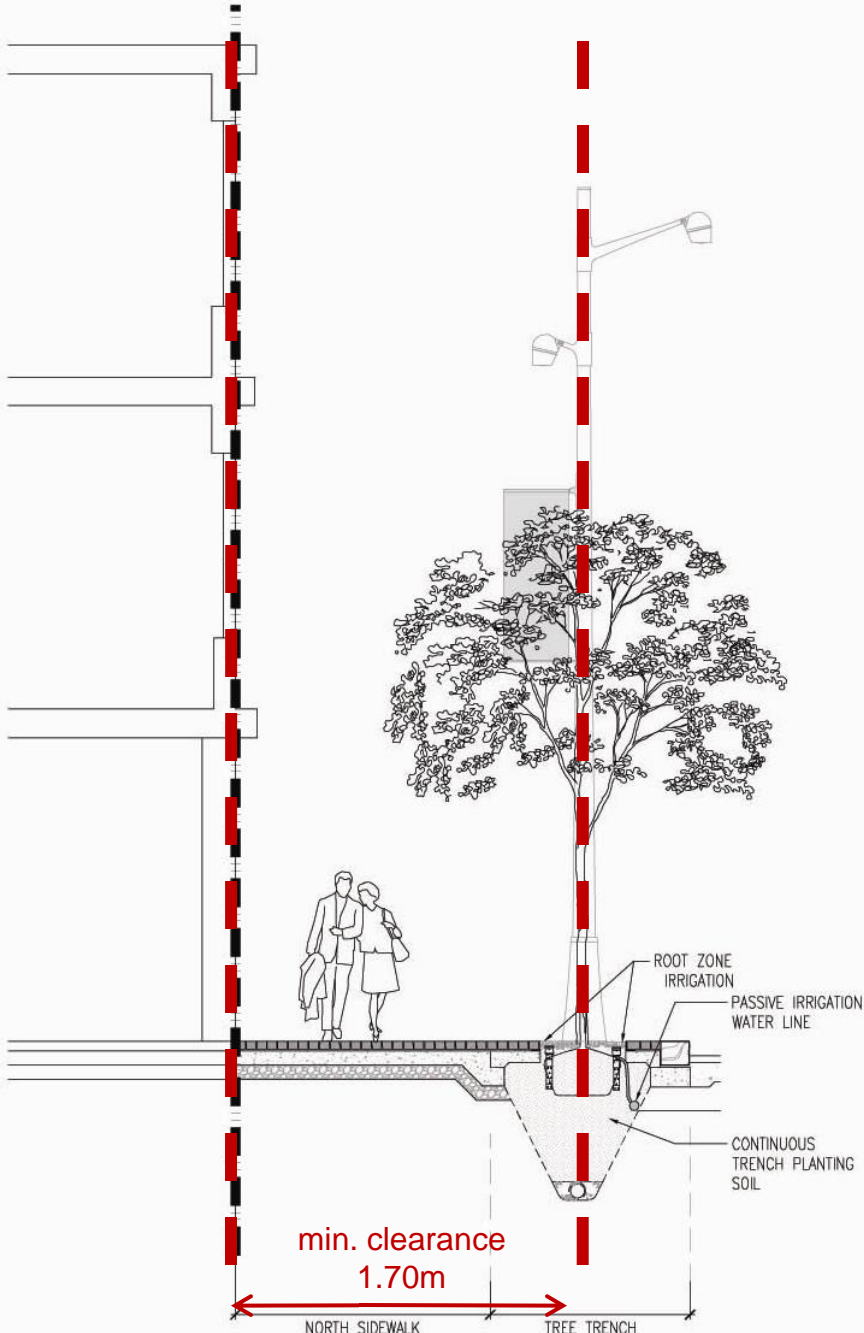
# MINIMUM DIMENSIONS

North side walk



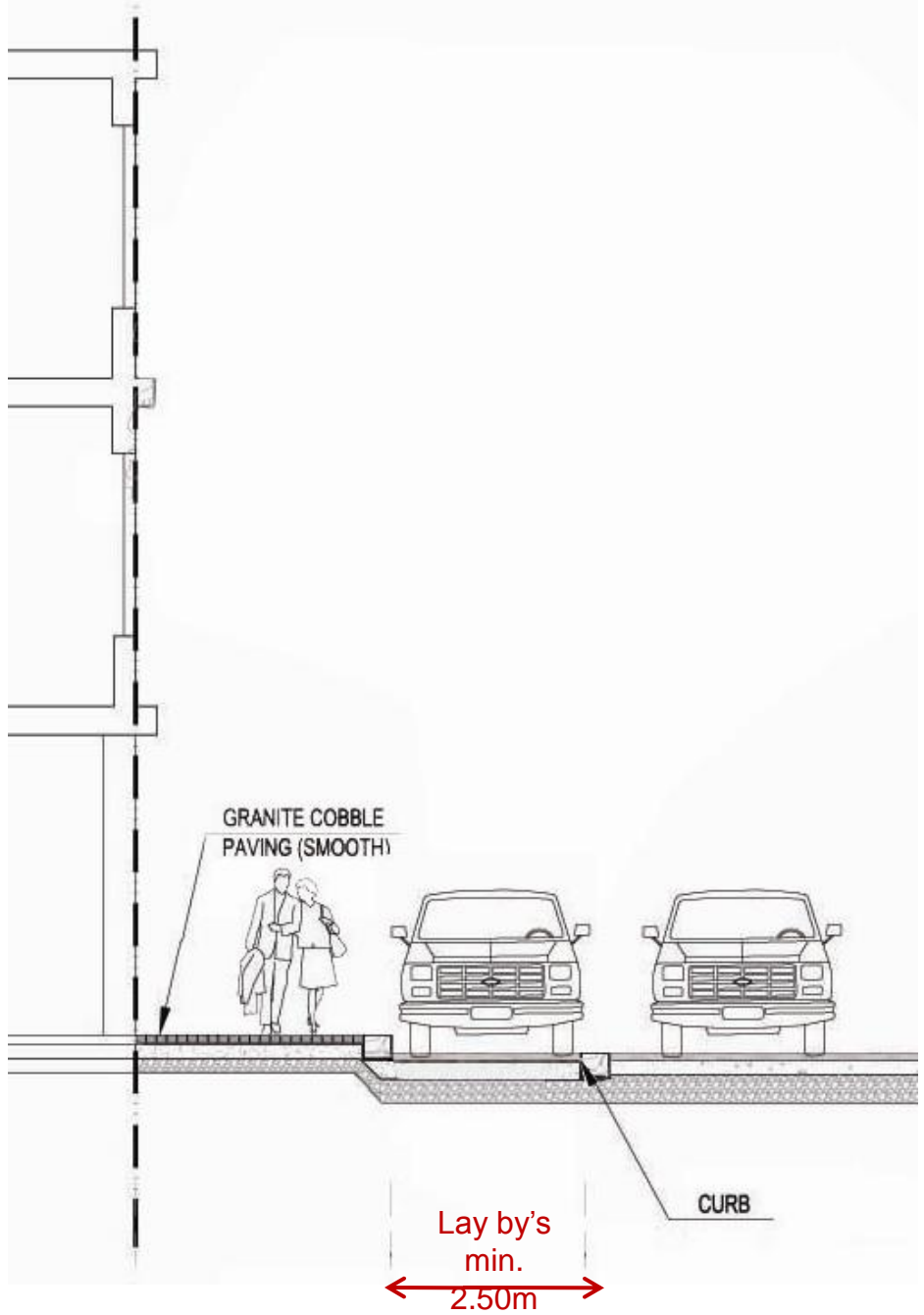
# MINIMUM DIMENSIONS

North side walk



# MINIMUM DIMENSIONS

North side walk



# STREET ELEMENTS

North side walk

Sidewalks should use a higher quality materials than typical Toronto sidewalks.

1. Granite Curb



Caledonia Grey  
Waterjet Finish - top  
Split Face - vertical face  
per EBF Public Realm detail

2. Lighting



Bulk Purchase item  
9.0 m Pole  
1 Long Arm and 1 Short Arm

3. Tree



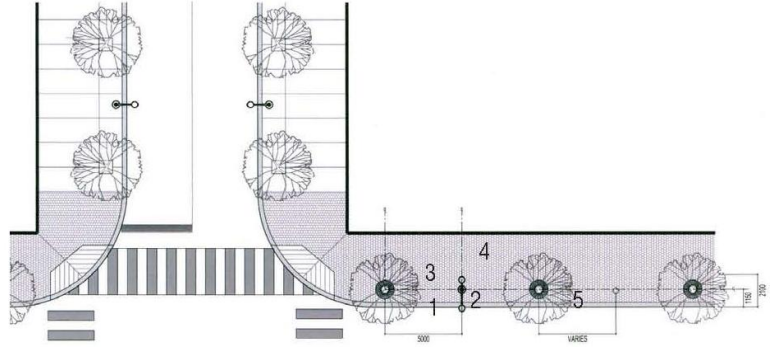
Tree species to be determined  
1 type of tree

4. Paving



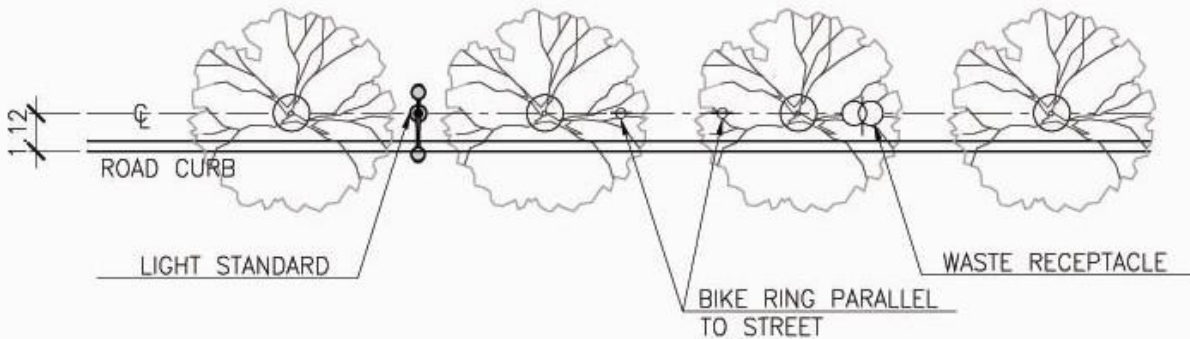
Red granite or concrete  
t.b.c.

5. Tree Ring



# PLACING STRATEGY STREET FURNISHING

North side walk



Light pole



Garbage receptacle



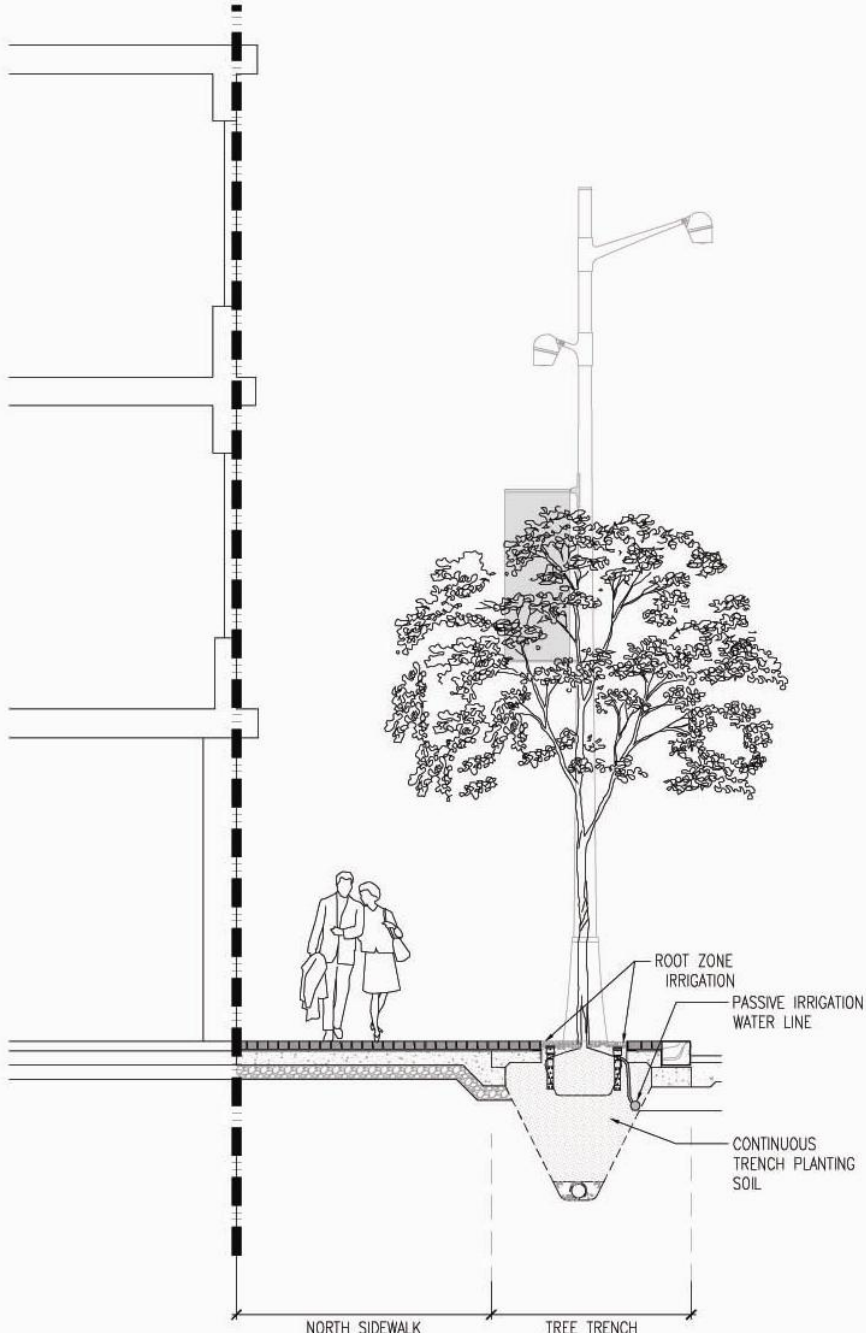
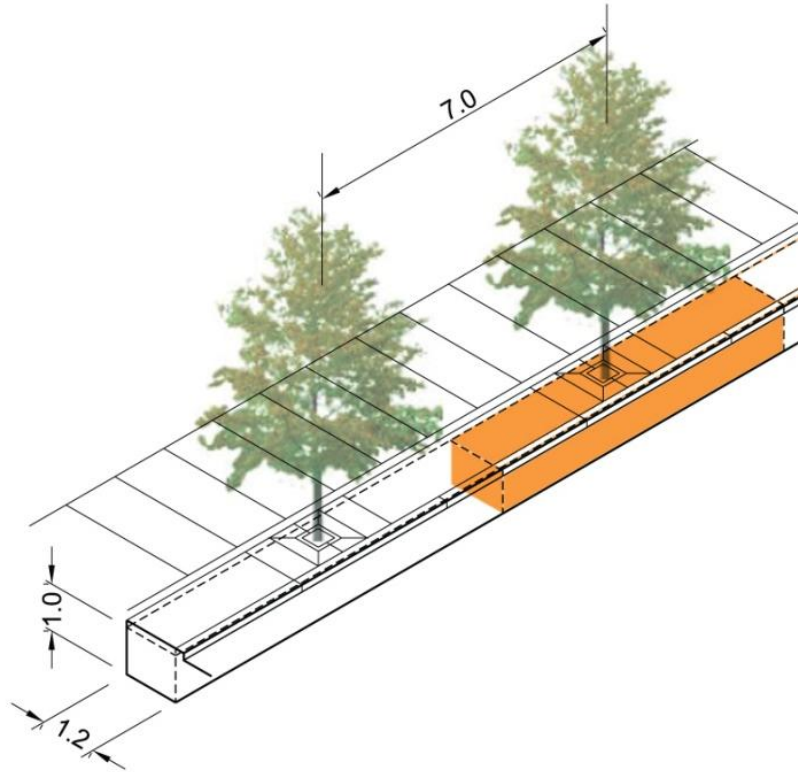
Bike ring

# TREE PLANTING STRATEGY - CONDITIONS

North side walk

## Creating the ideal conditions to plant a tree

Continuous tree trench system similar or greater than soil volume of City of Toronto Standard  
- approximately 8.7m<sup>3</sup>/tree



# TREE PLANTING STRATEGY – SPECIES SELECTION

North side walk

Diverse variety of native species and hardy cultivars, planted to suit available soil conditions

*Acer / Sunset Maple*



*Corylus columa / Turkish*



*Gleditsia / Sunset Honeylocust*



*Ulmus / Princeton Elm*



*Tilia / Greenspire Linden*



*Quercus / Pin Oak*



*Celtis / Hackberry*



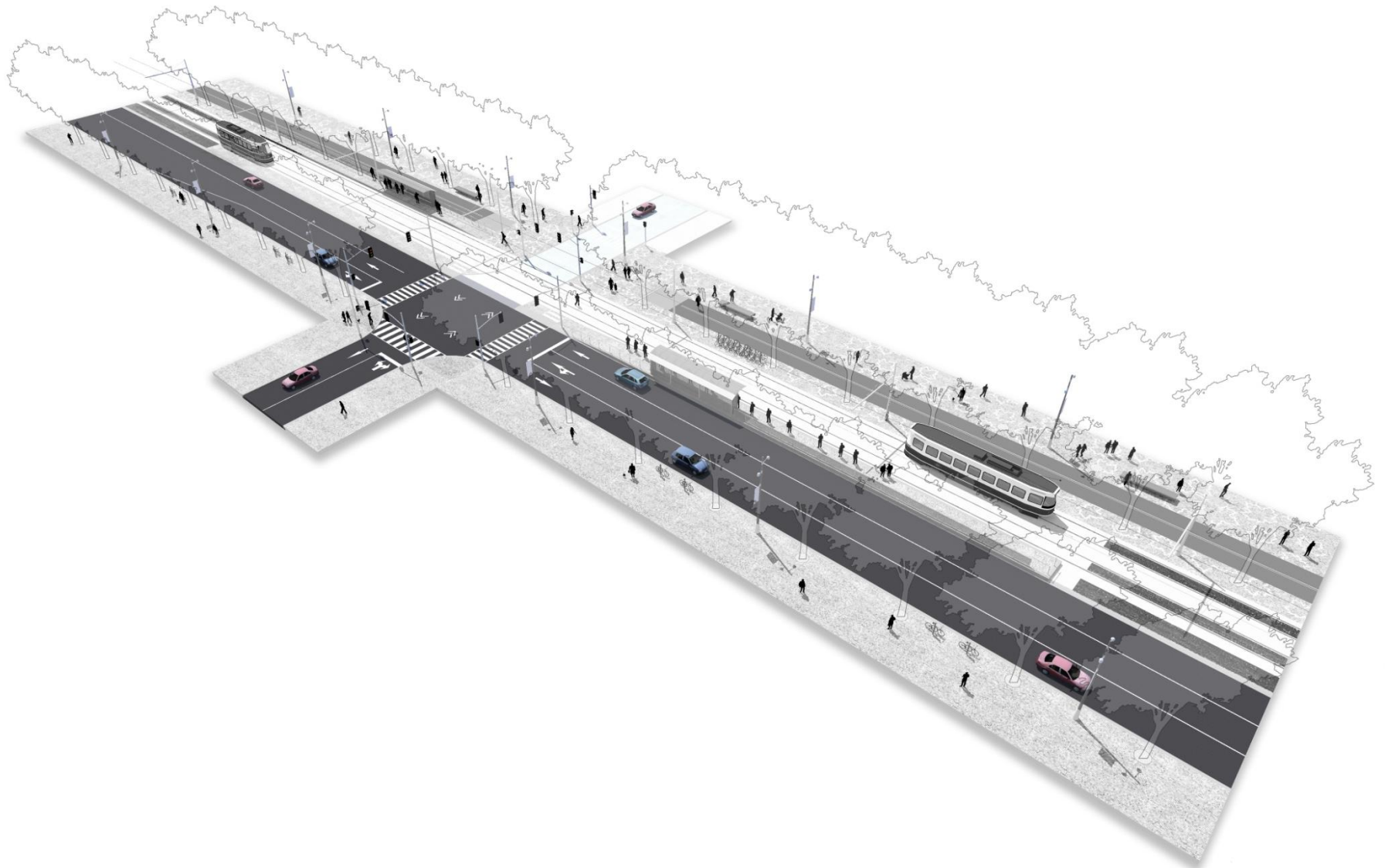
*Phellodendron / Amur*







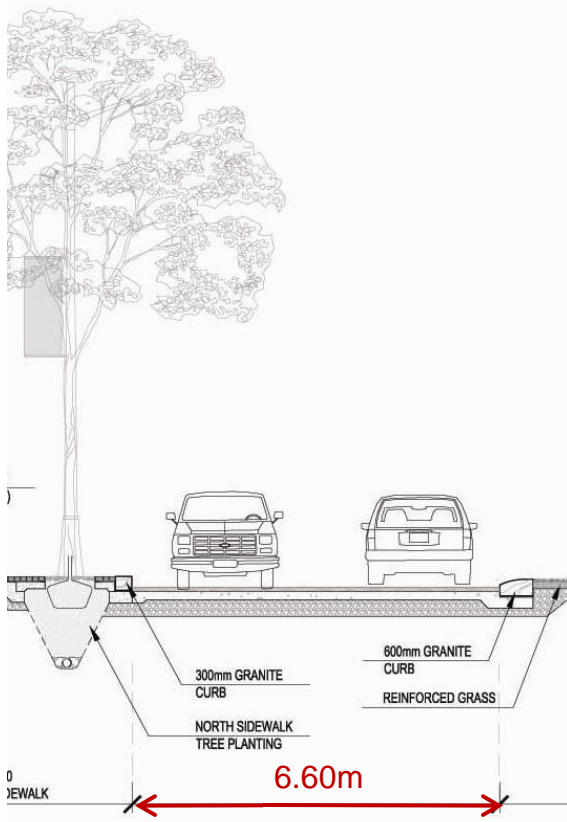
## 2. ROAD



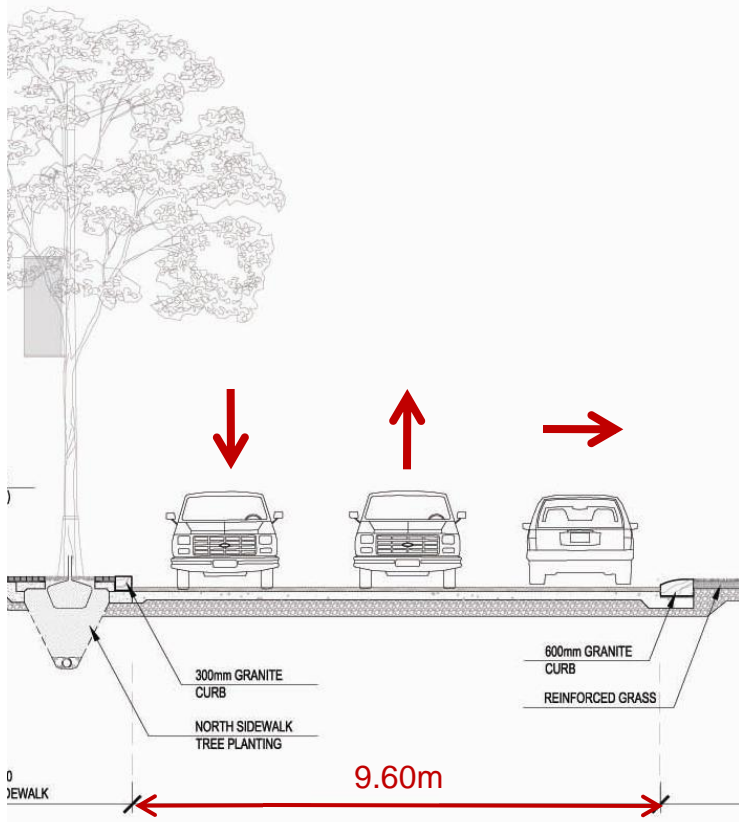
# MINIMUM DIMENSIONS

Road

### Typical road dimension



### Road dimensions near an intersection

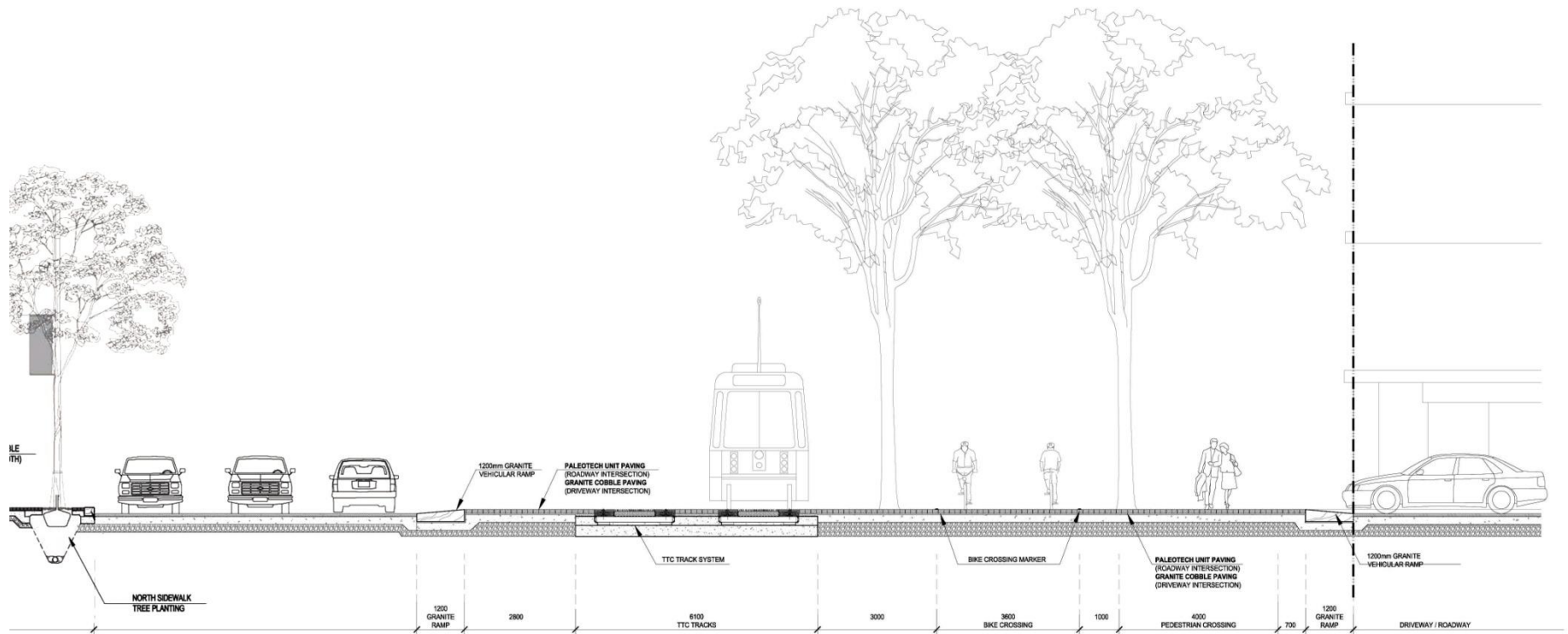




# MINIMUM DIMENSIONS

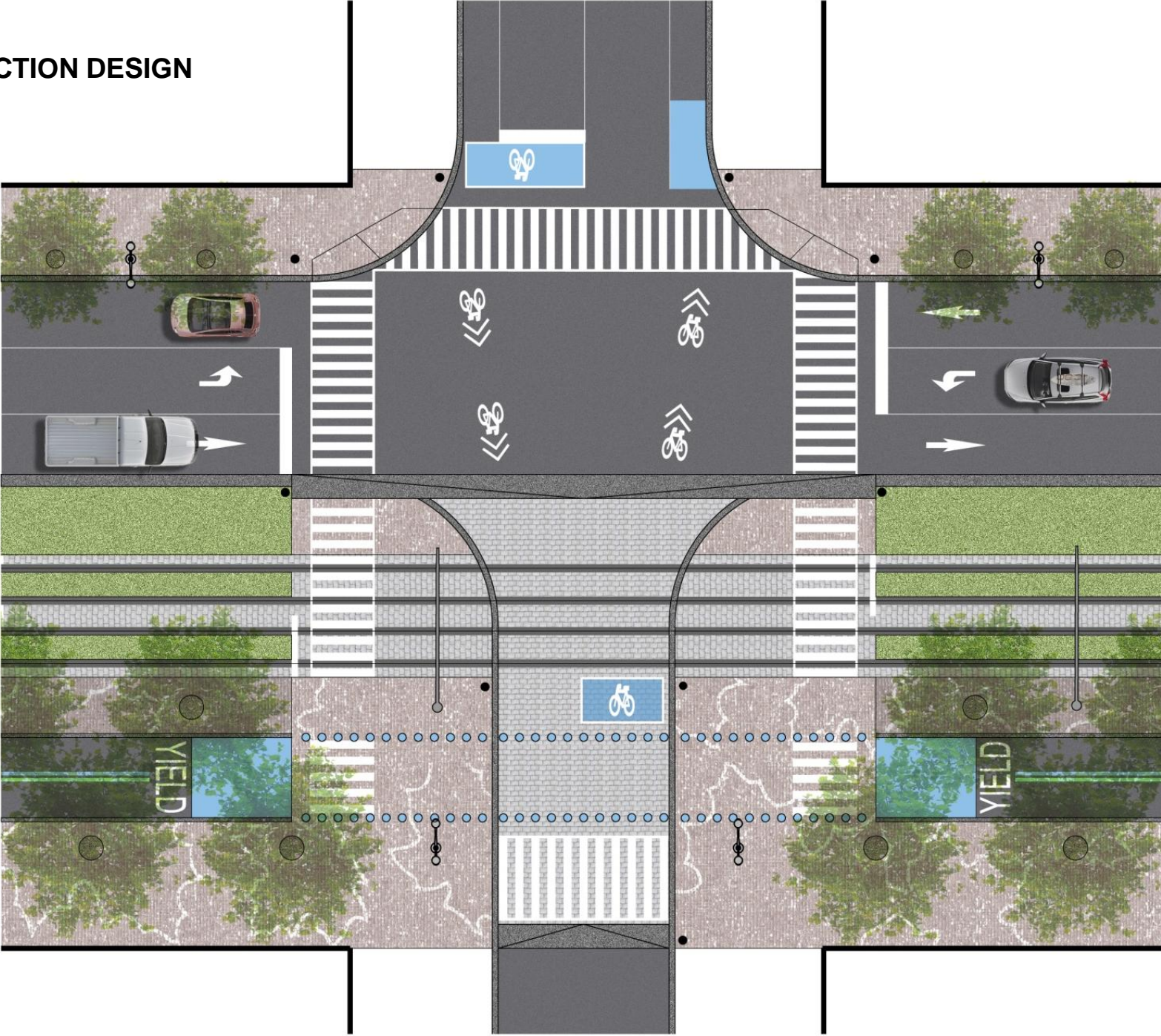
Entrance to an inner street (south side)

Table top design -



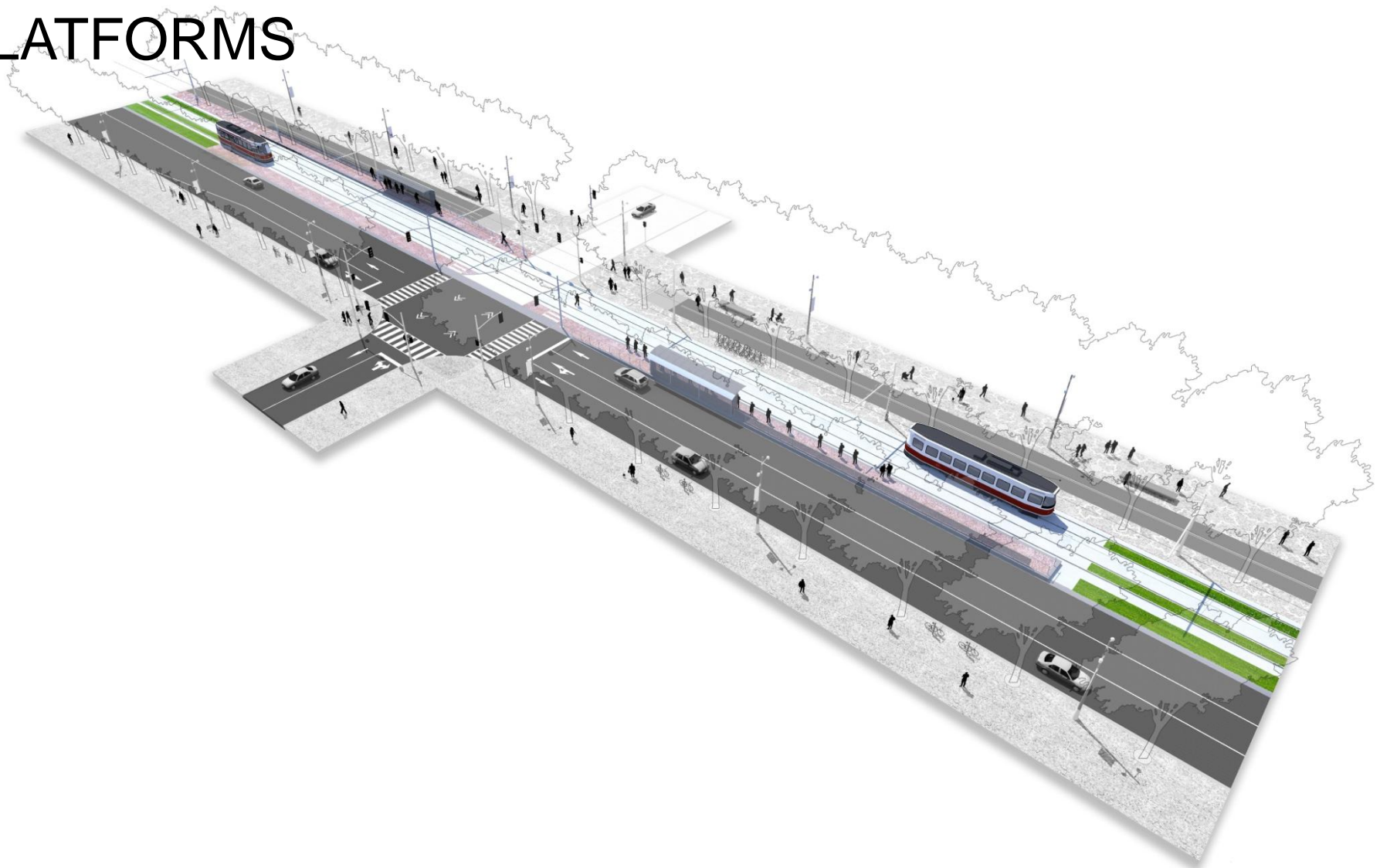
# INTERSECTION DESIGN

Road





# 3. TTC RIGHT OF WAY & PLATFORMS

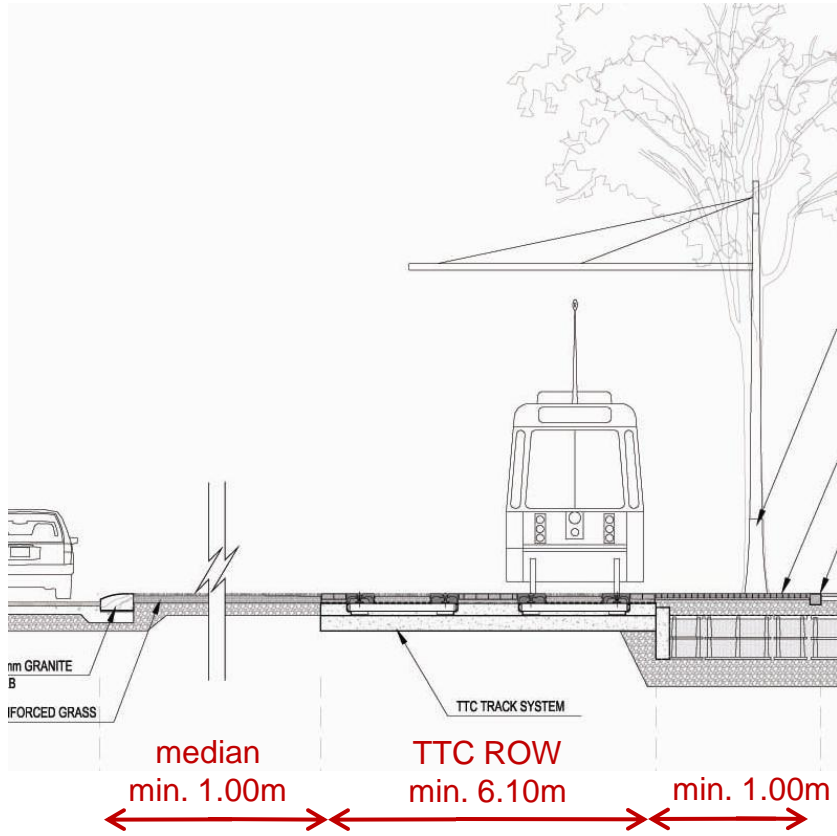




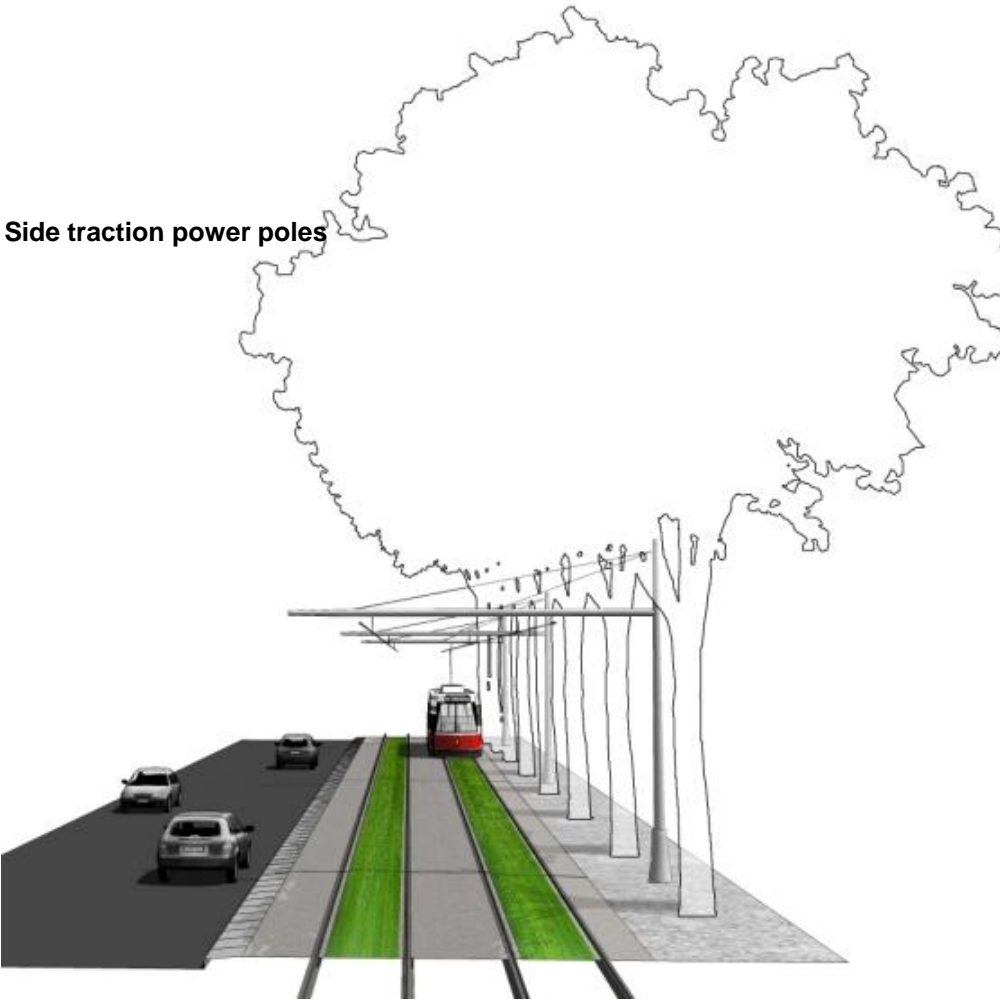
# MINIMUM DIMENSIONS

TTC Right of Way

TTC Right of Way dimension



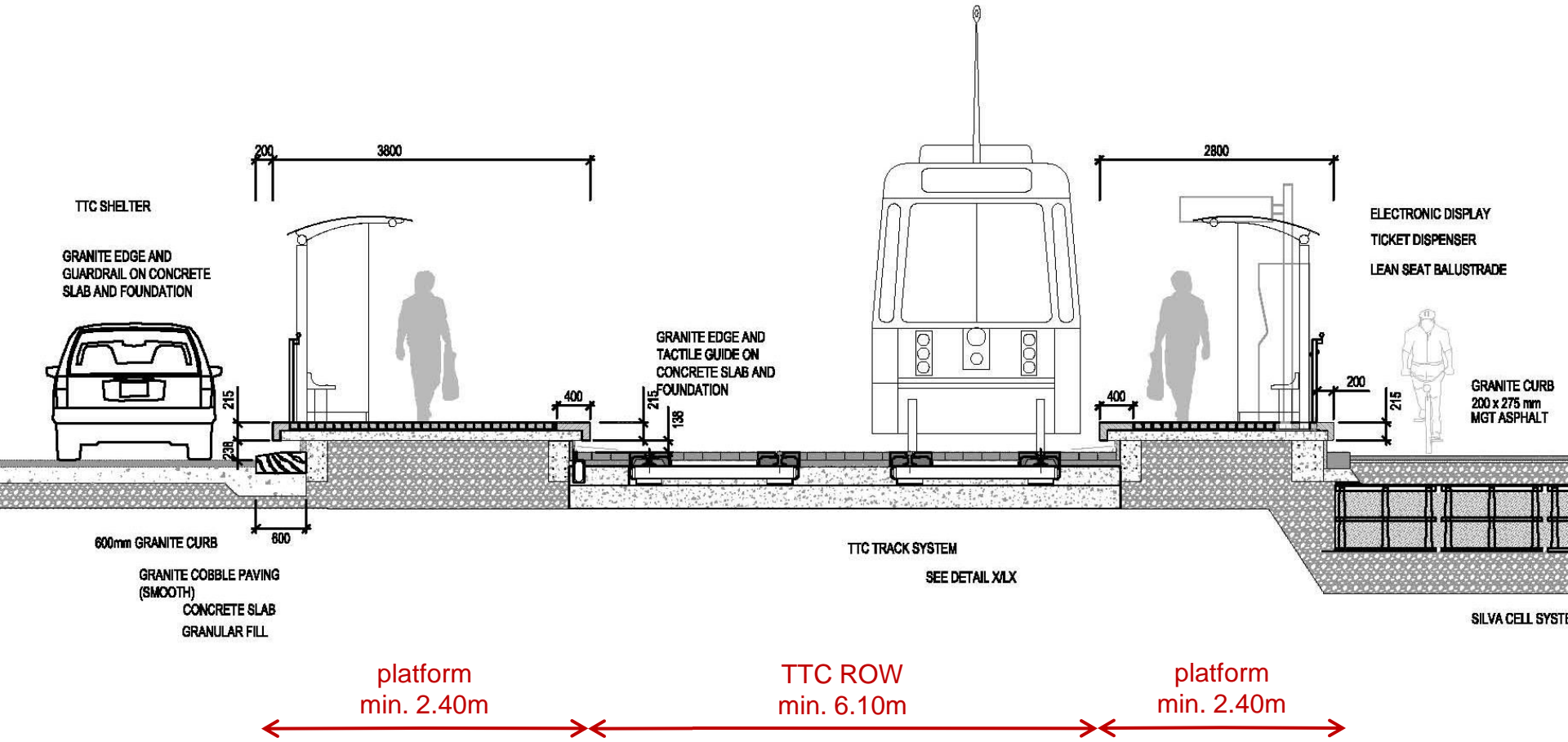
Side traction power poles

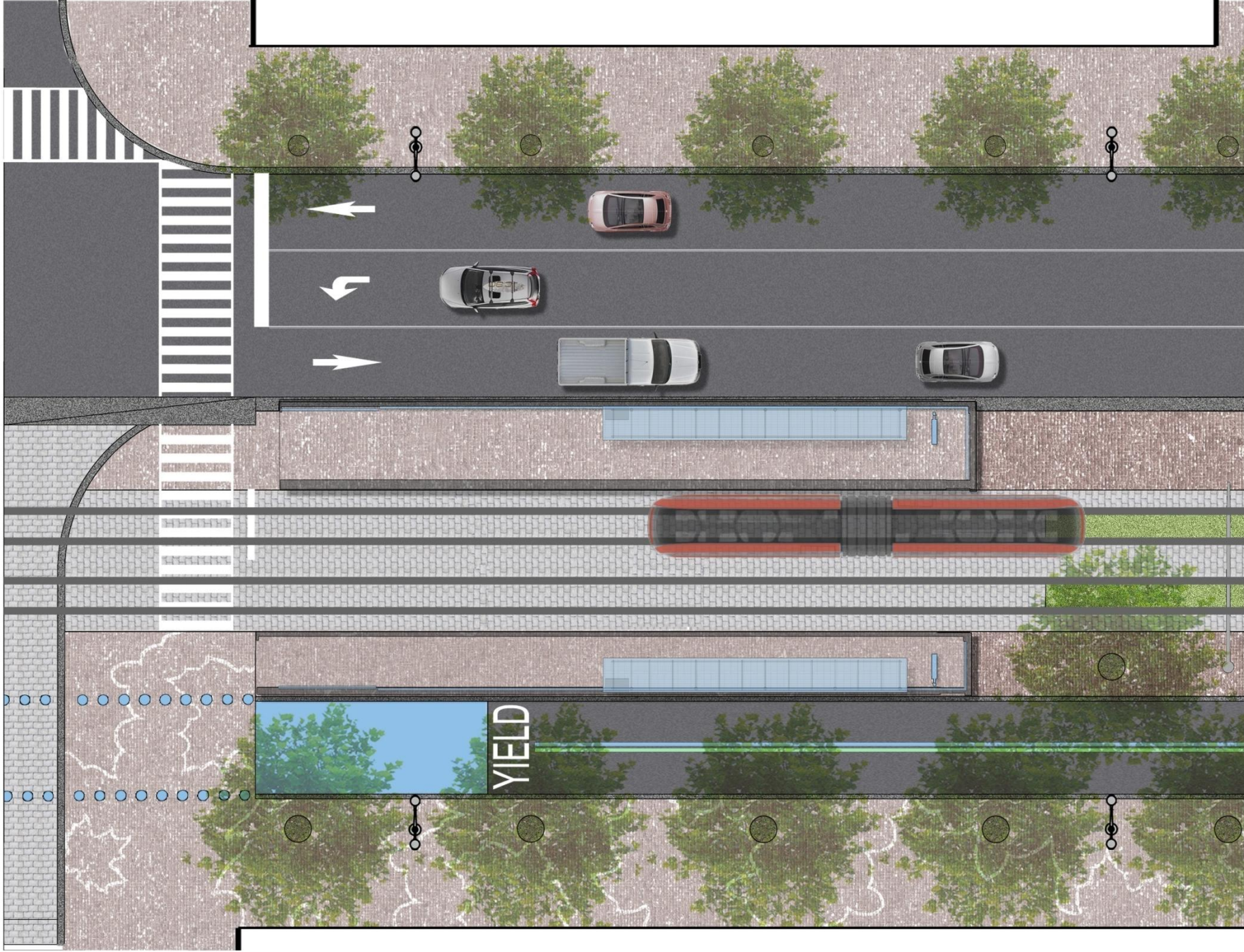




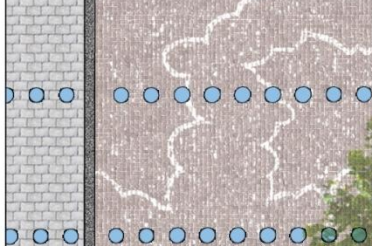
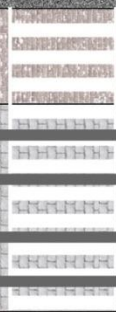
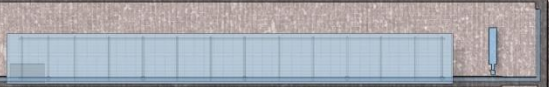
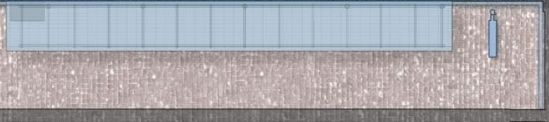
# MINIMUM DIMENSIONS

Platform design





YIELD





4161

509 SPADINA STATION

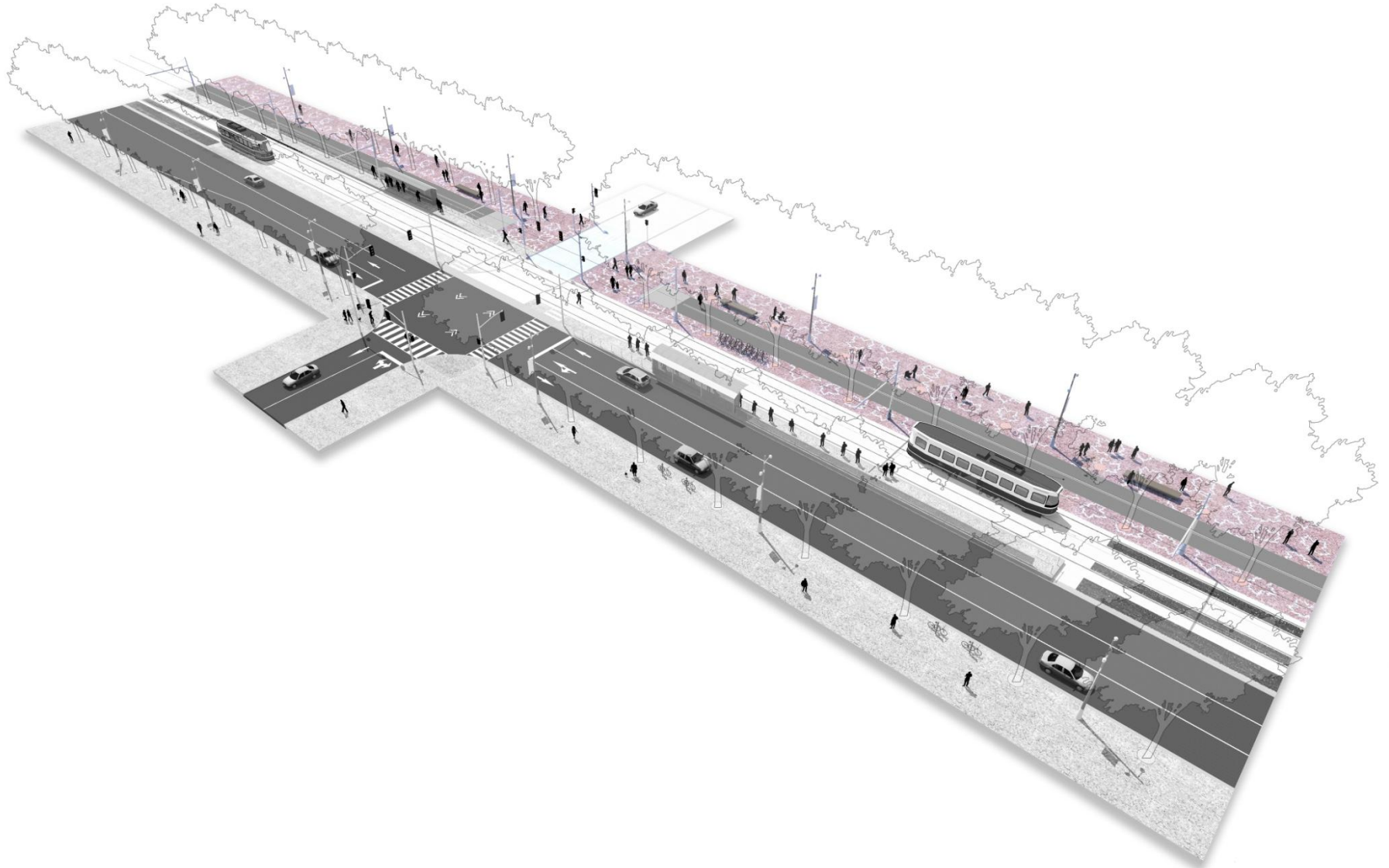
509 SPADINA STATION

N STATION

4161

Illustration of the platform

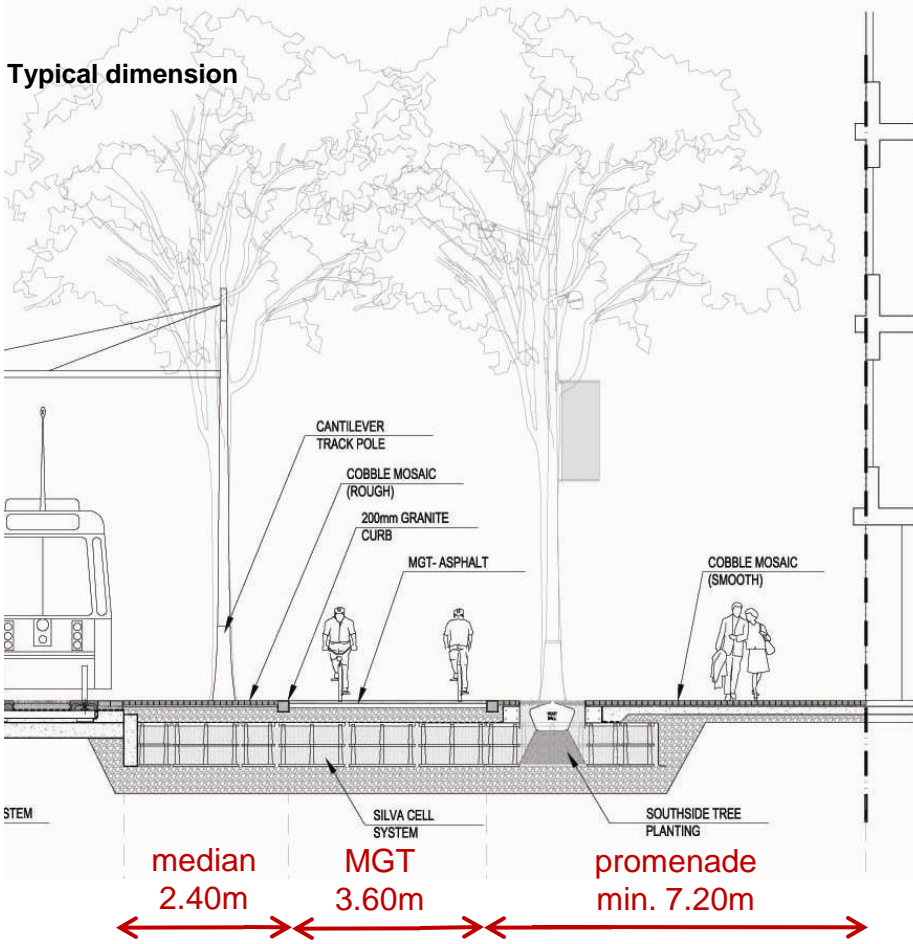
# 4. SOUTH SIDE PROMENADE & MGT



# MINIMUM DIMENSIONS

South side promenade & MGT

Typical dimension



# MOSAIC

South side promenade



Two color mosaic - San Sebastian and Canadian Red



Contrast of texture



Outline mosaic pattern of the leaf motif



Paving Pattern Module



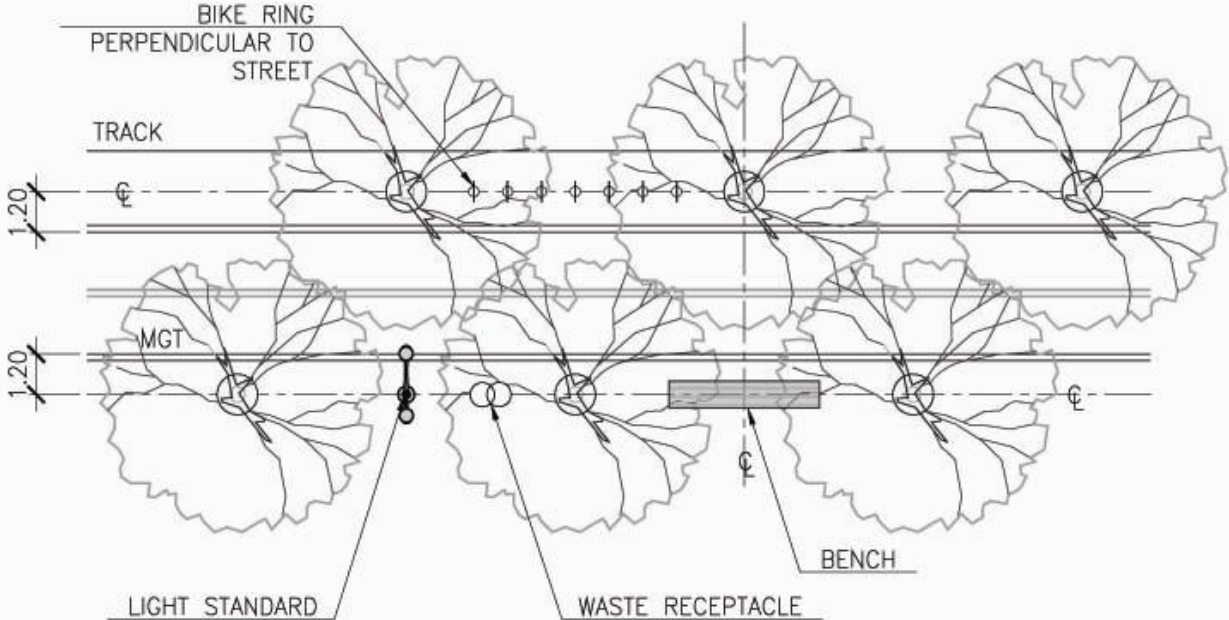




Water's Edge Promenade – reference

# PLACING STRATEGY STREET FURNISHING

Promenade & MGT



Light pole



Bench



Waste receptacle



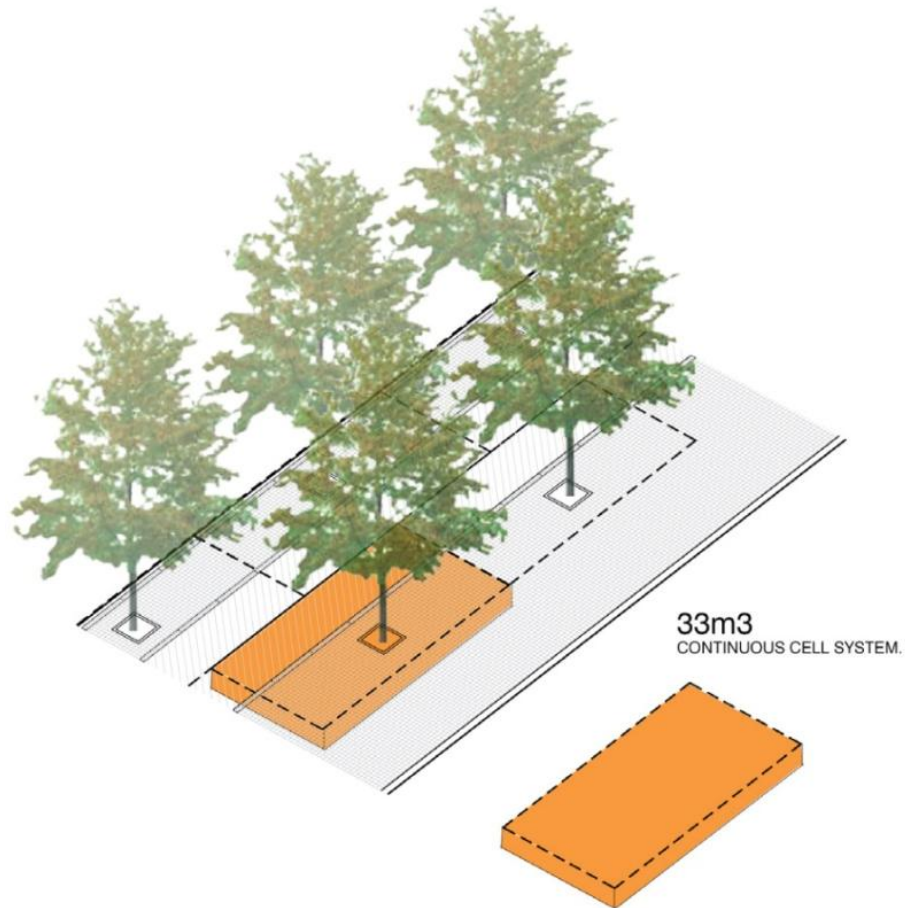
Bike ring

# TREE PLANTING STRATEGY – CONDITIONS

Promenade & MGT

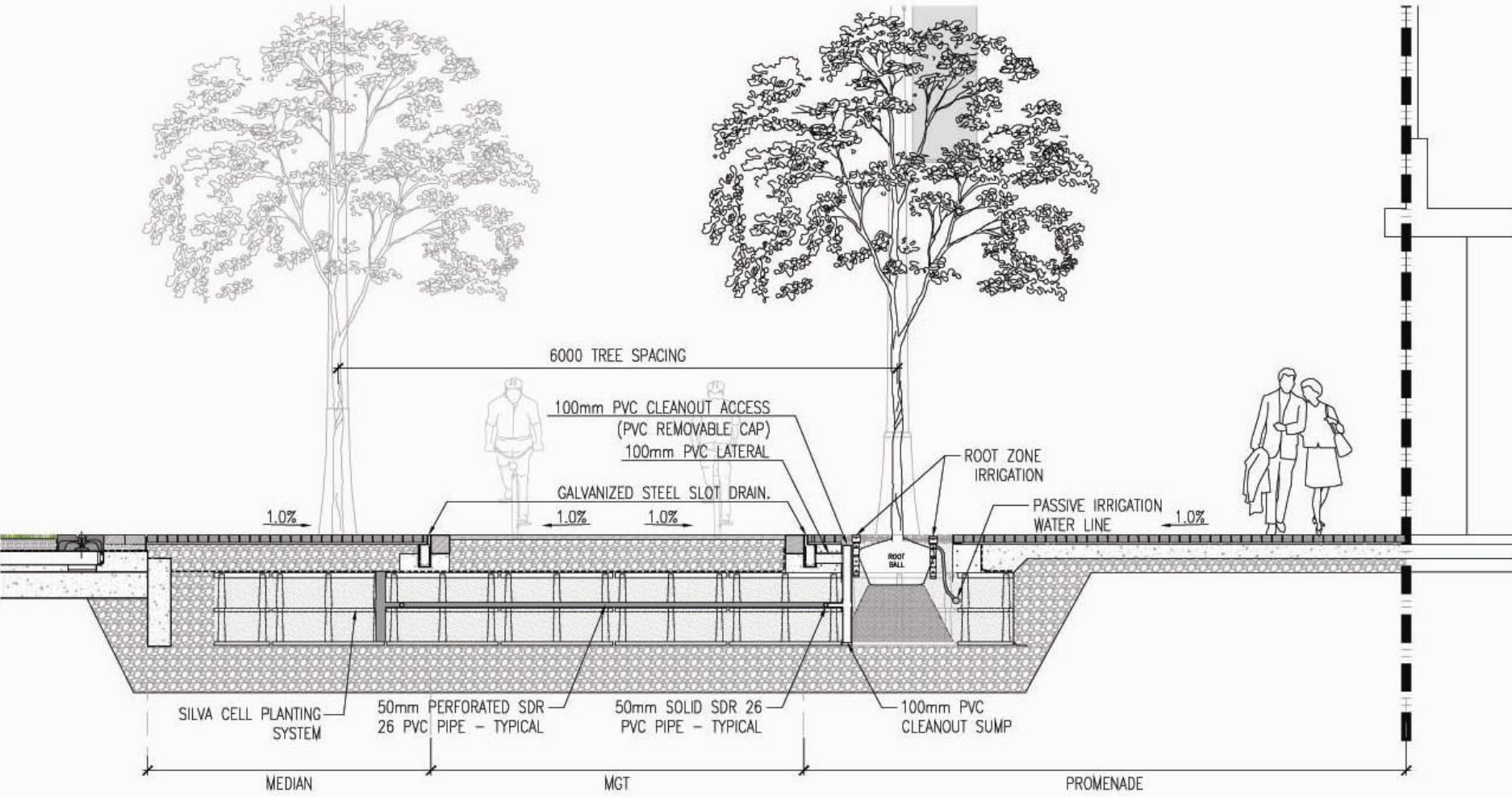
## Creating the ideal conditions to plant a tree

Continuous silva cell system under trees and Martin Goodman Trail - approximately 33m<sup>3</sup>/tree



# TREE PLANTING STRATEGY – CONDITIONS

Promenade & MGT



# TREE PLANTING STRATEGY – CONDITIONS

Promenade & MGT



2 layers of silva Cells over granular base



Electrical ducts and irrigation through Silva Cells



Top deck of Silva Cells



Tree pit opening in top deck of Silva Cells



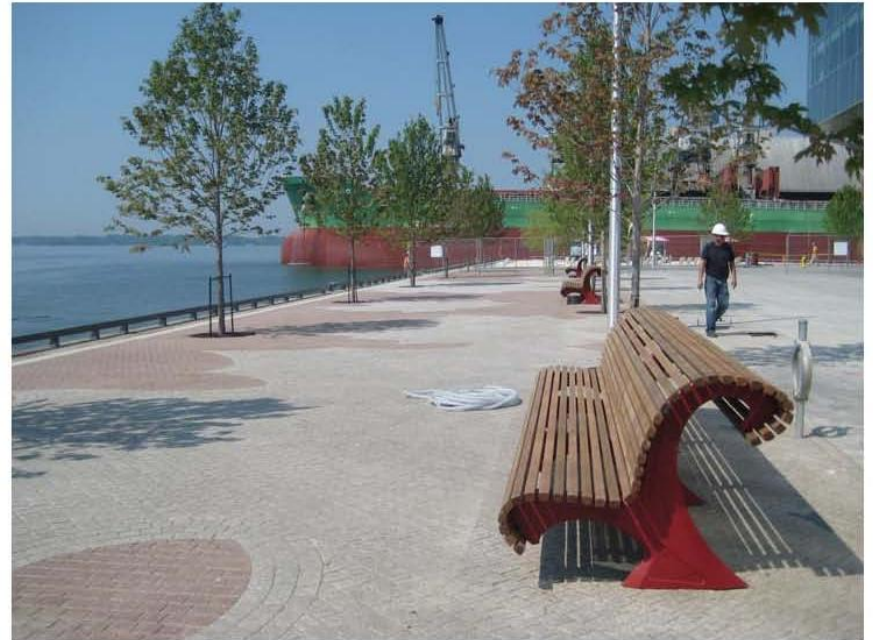
Formwork for tree pit over Silva Cells



Granular over Silva Cells



Tree planting in Silva Cells



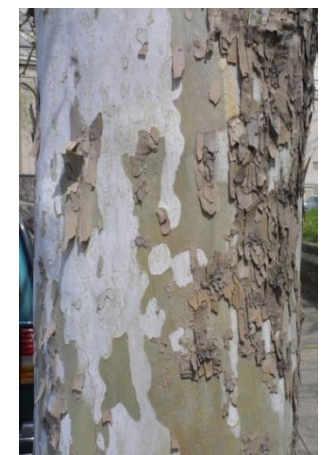
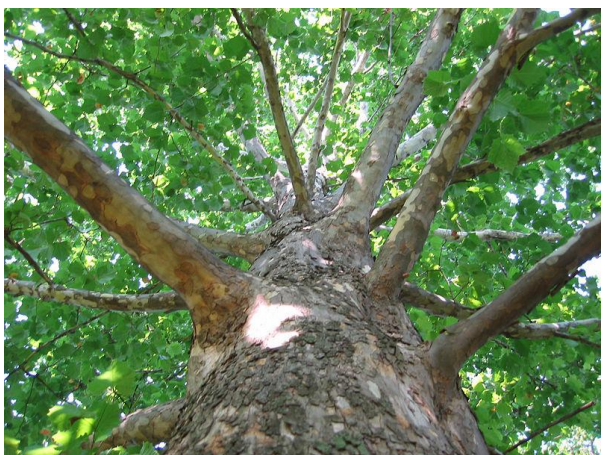
Finished surface over Silva Cells

# TREE PLANTING STRATEGY – SPECIES SELECTION

Promenade & MGT

## 1 tree species in different cultivars

*Platanus occidentalis* (Plane tree)



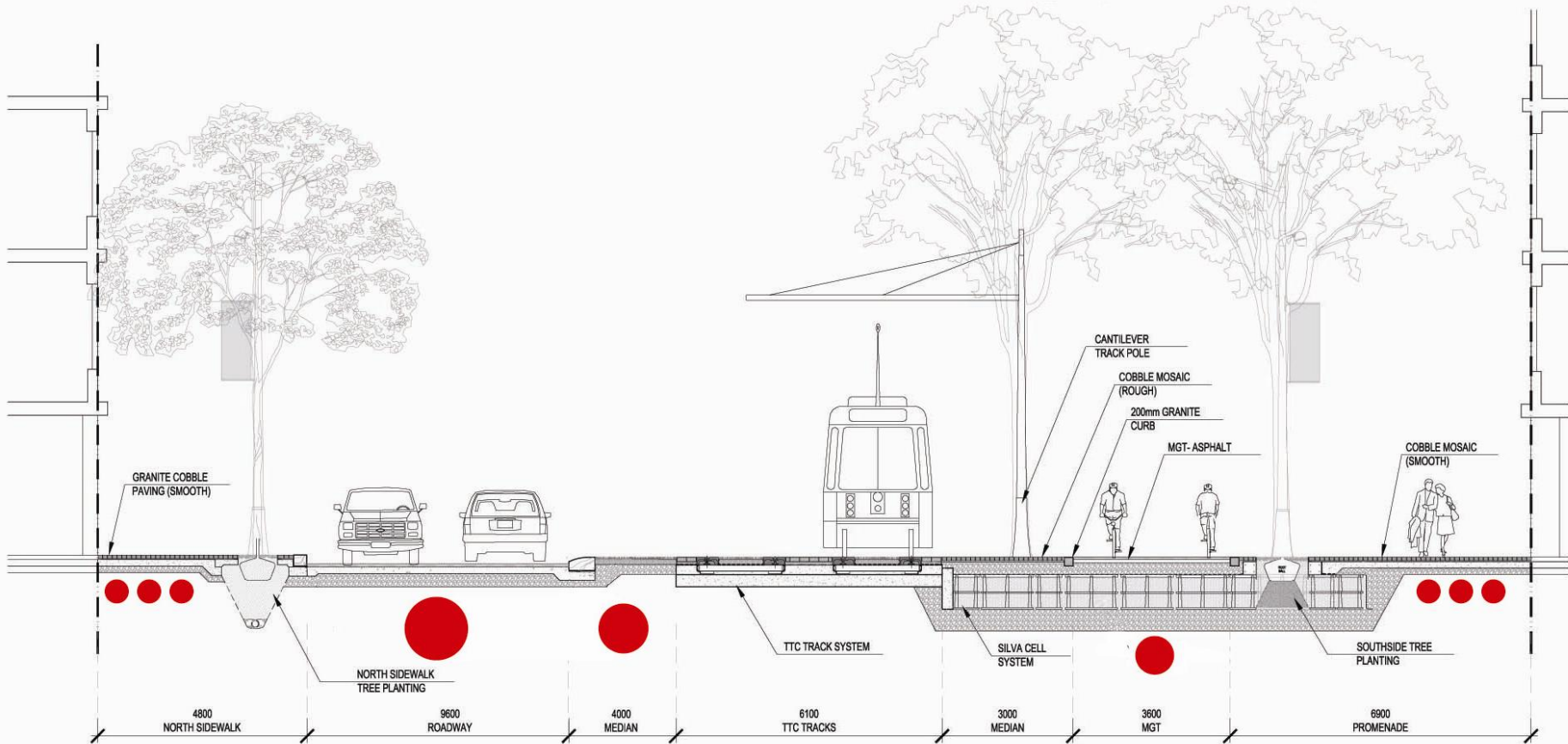






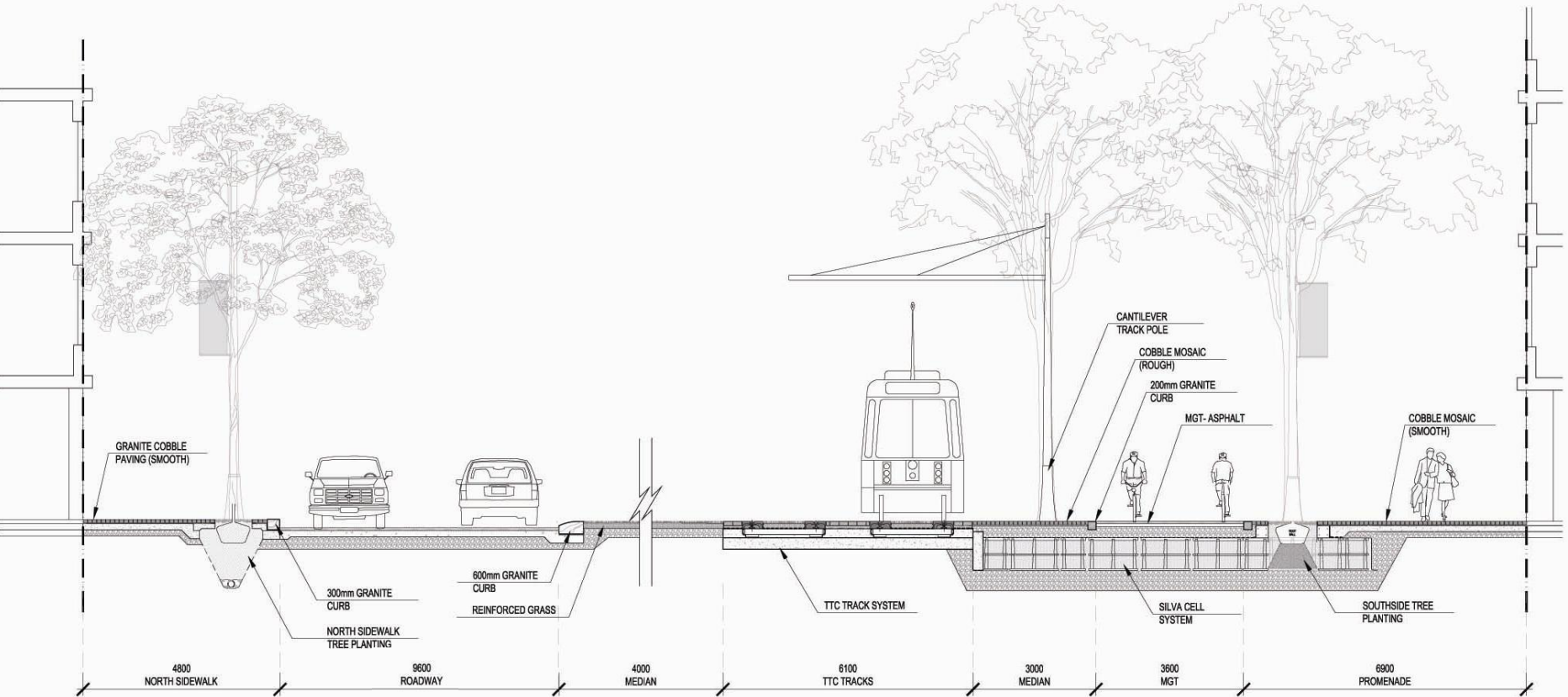


# 5. UTILITY IMPACTS



no utilities under  
TTC ROW

# HORIZONTAL



from façade to façade 28 – 36m

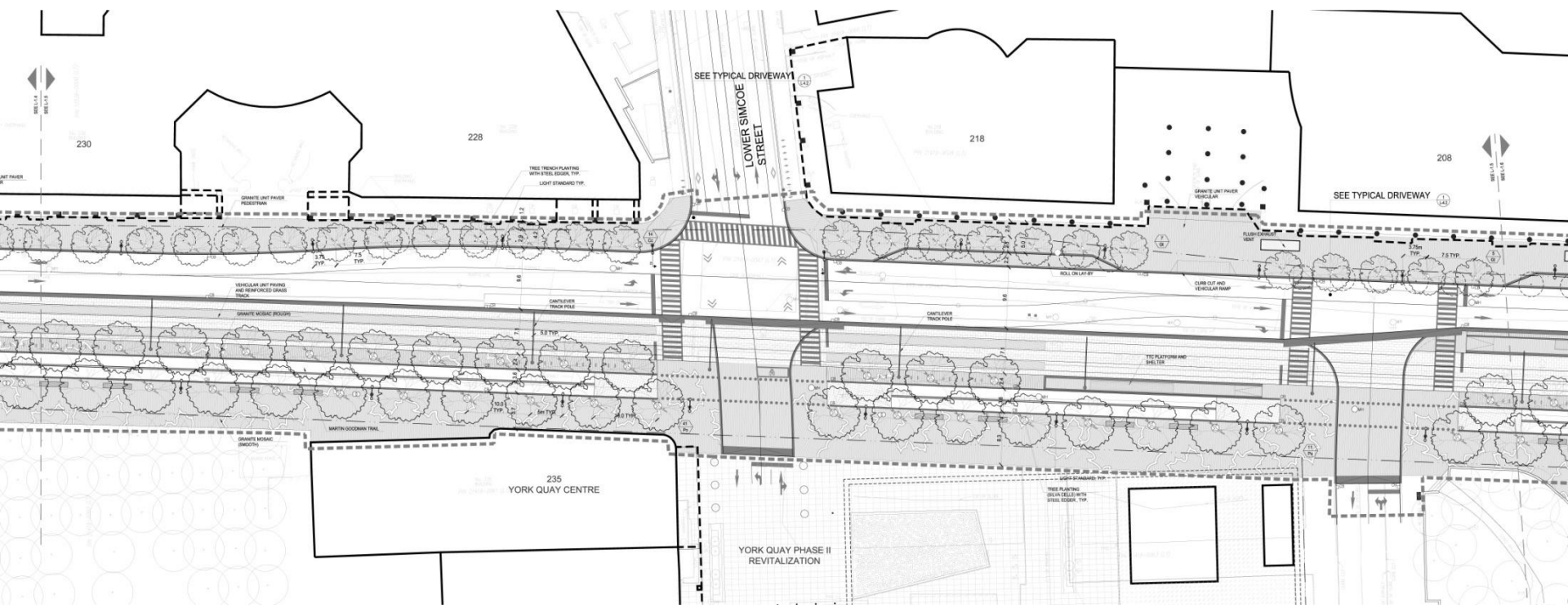


# HORIZONTAL ALIGNMENT

Design elements

Intersection + Trees

Lay by



Intersection LHT up north

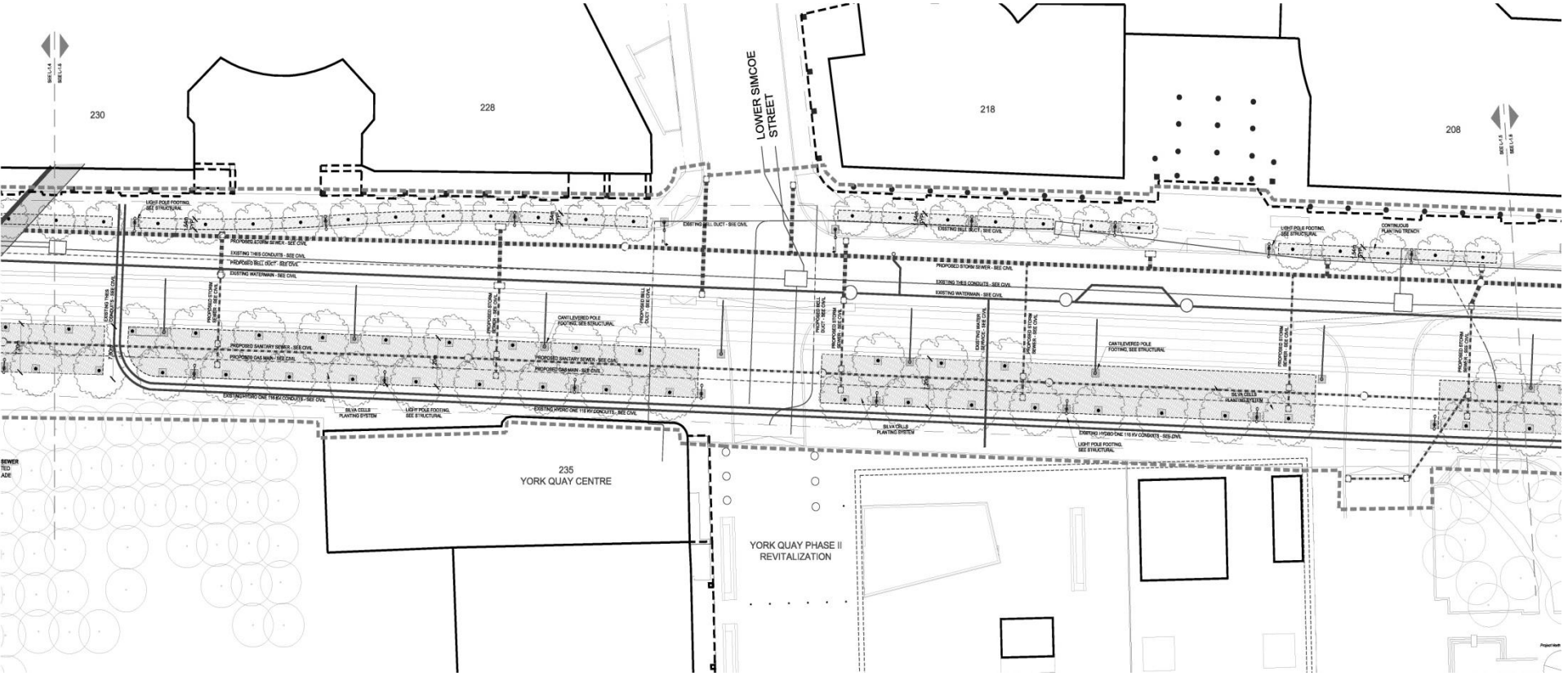
Intersection RHT entrance QQ Terminal

Platform



# HORIZONTAL ALIGNMENT

Subsurface: utilities and tree spaces



# HORIZONTAL ALIGNMENT

Tree planting strategy

*Corylus columna* / Turkish



*Gleditsia triacanthos* 'Skyline' / Sunset

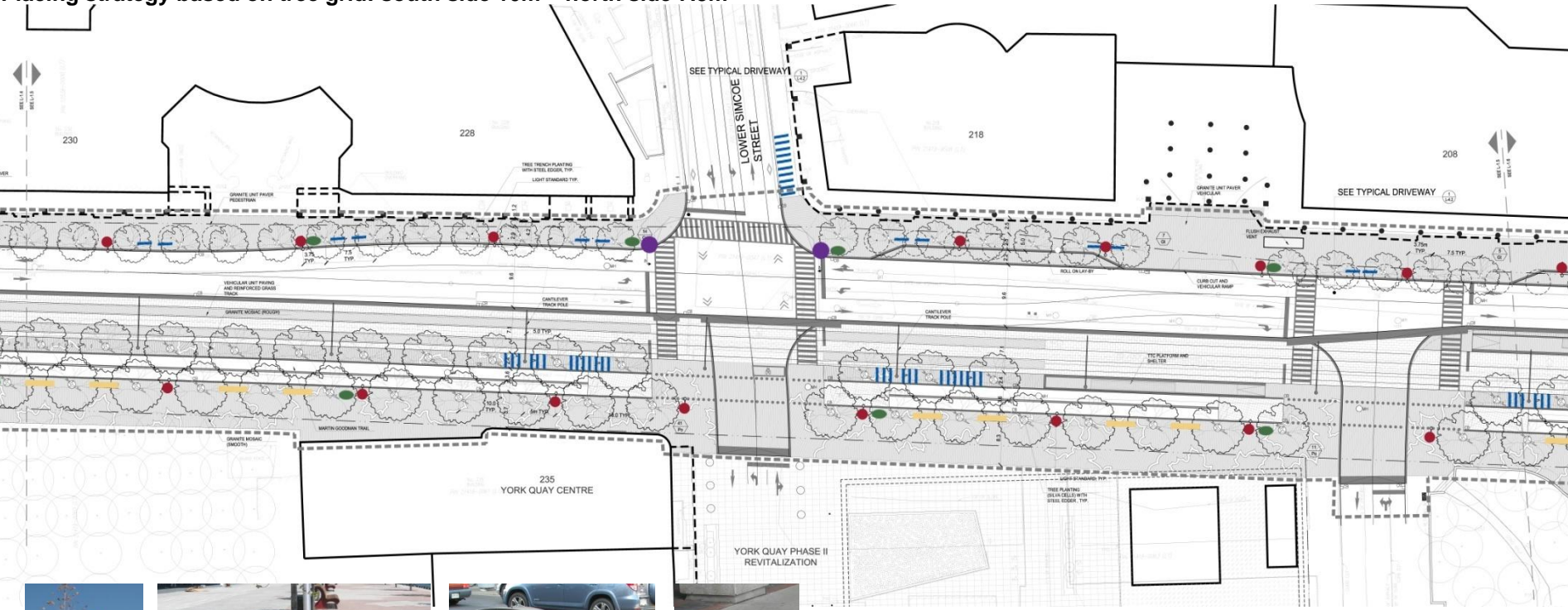


*Platanus occidentalis* (Plane tree)

# HORIZONTAL ALIGNMENT

Placing strategy street furniture

Placing strategy based on tree grid: south side 10m – north side 7.5m



-  Traffic signal /street light post
-  Traffic signal post
-  Garbage receptacle
-  Bench
-  Bike ring



# TESTING THE DESIGN ELEMENTS



# TESTING THE DESIGN ELEMENTS



# TESTING THE DESIGN ELEMENTS





# Next Steps

- Initiate detailed design process for Queens Quay
- Public drop-in session scheduled for January 19, 2011

