

QUEENS QUAY



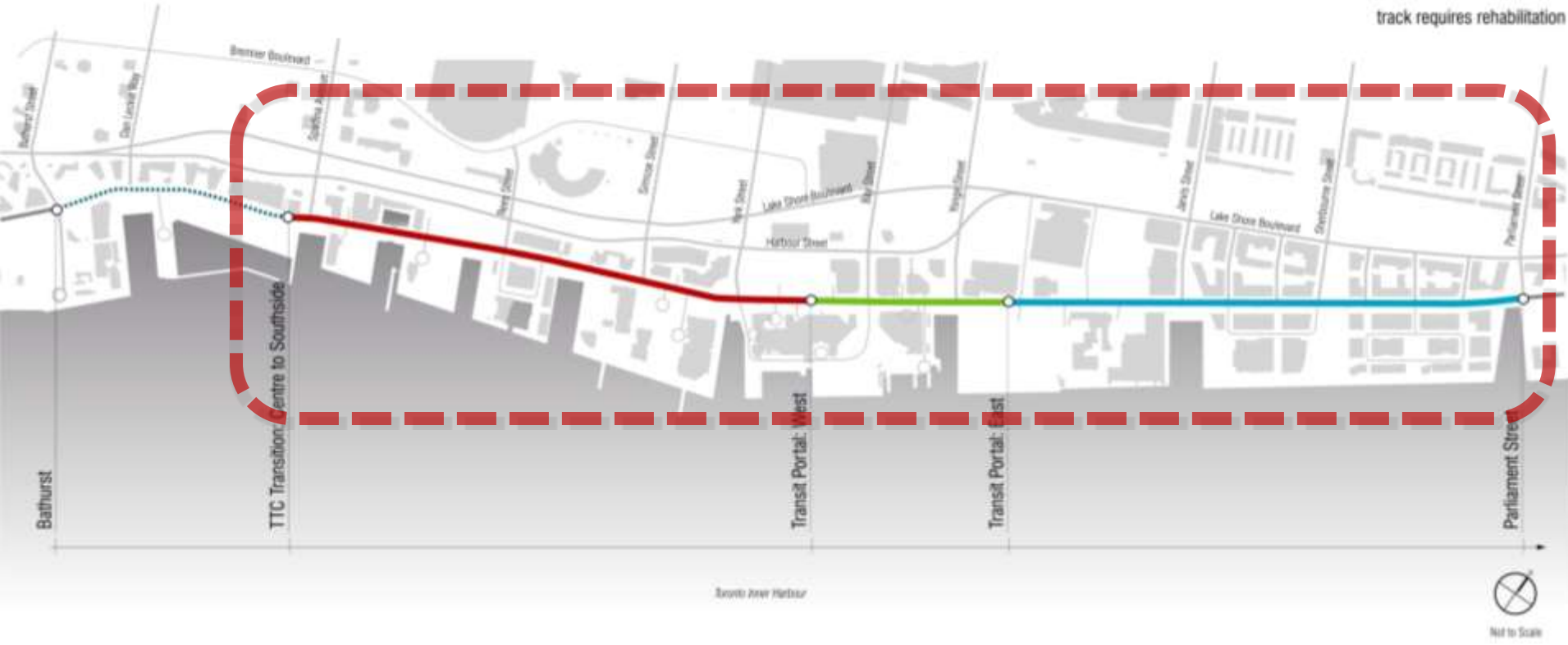
Design Update
Community update meeting Waterfront Toronto
2011.06.09

West 8 + DTAH

PROJECT BOUNDARIES – SCHEMATIC DESIGN

May 2010

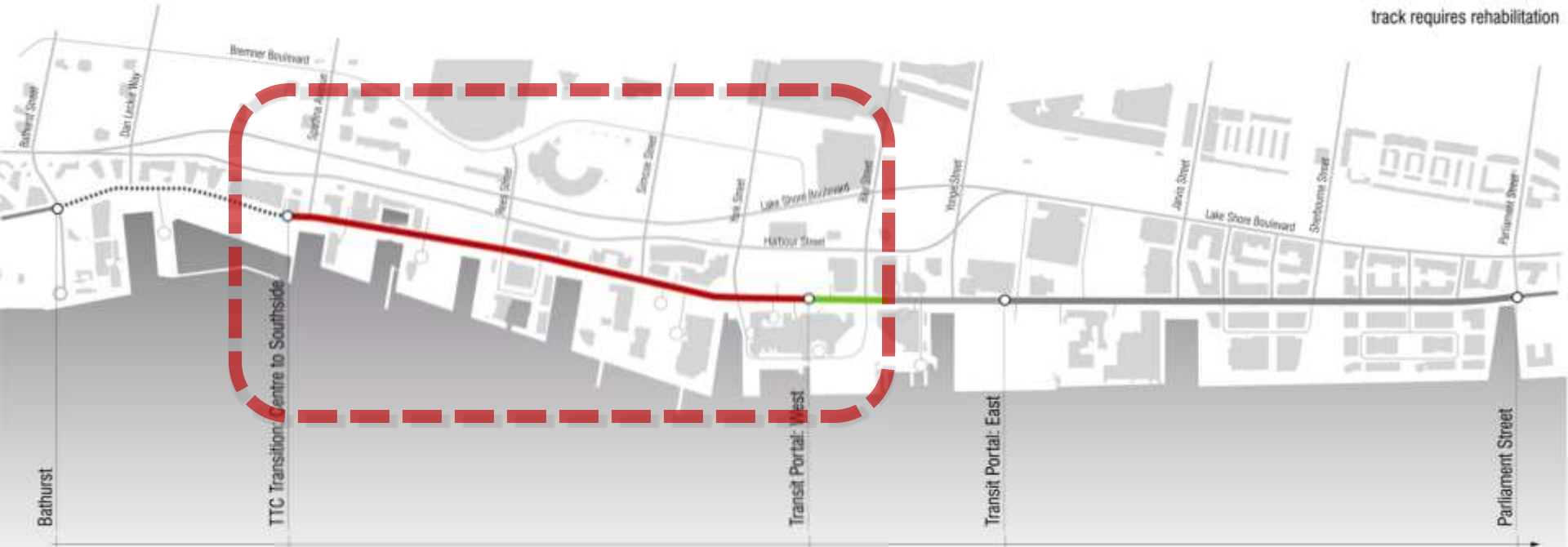
- Track Rehabilitation
- New TTC Track
- Transit Below Grade
- Potential future phase when track requires rehabilitation



PROJECT BOUNDARIES – DETAILED DESIGN

June 2011

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

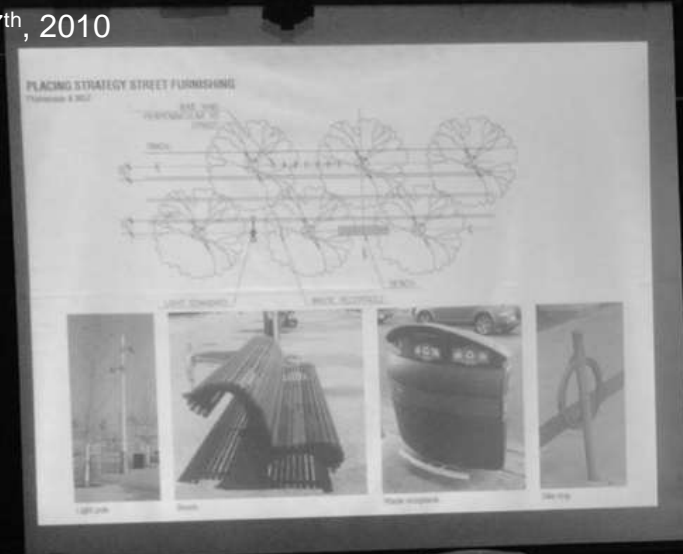


Toronto Area Harbour

Not to Scale

QUEENS QUAY COMMUNITY UPDATE MEETING

November 17th, 2010



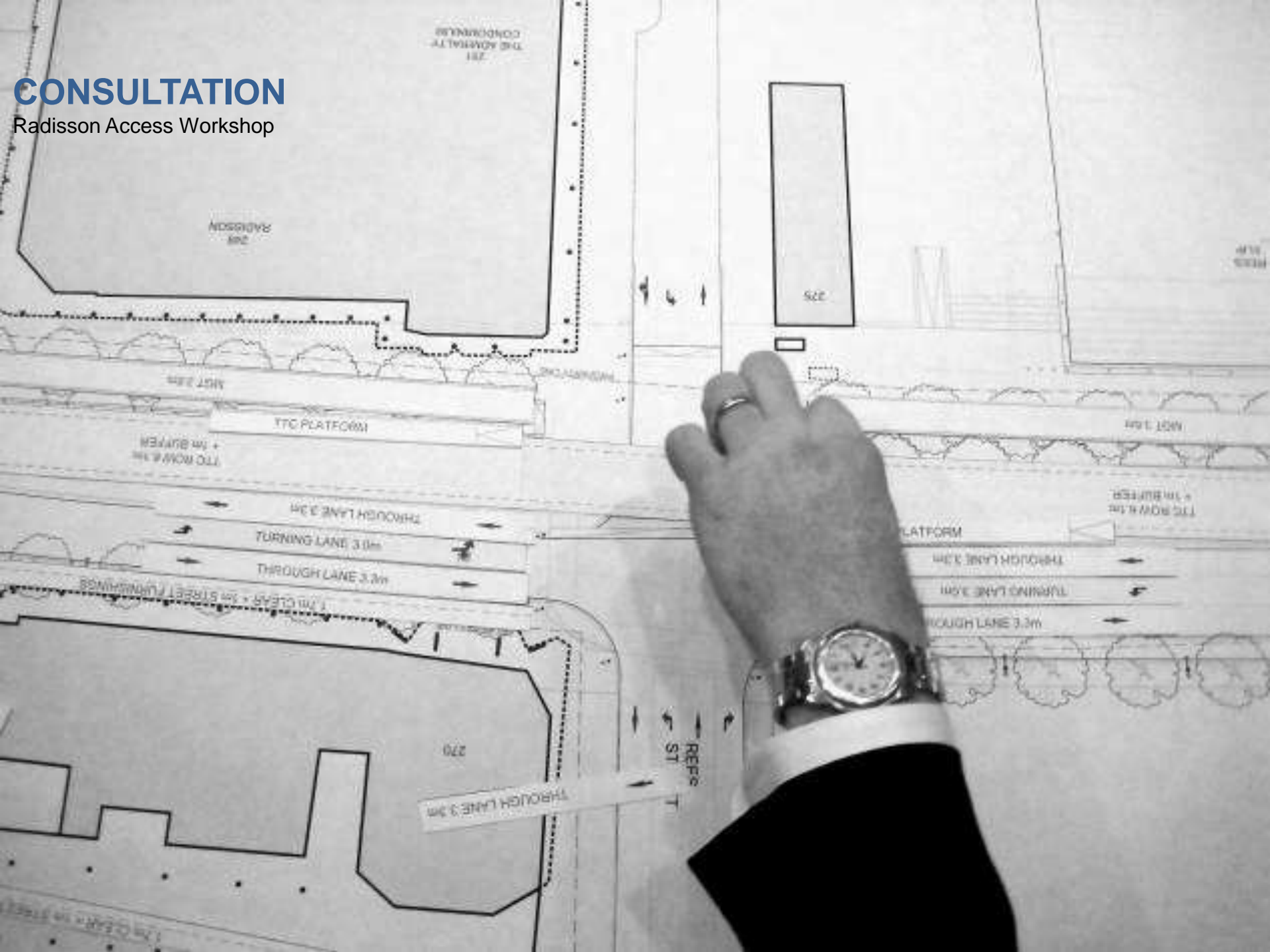
QUEENS QUAY PUBLIC DROP-IN SESSION

January 19th, 2011



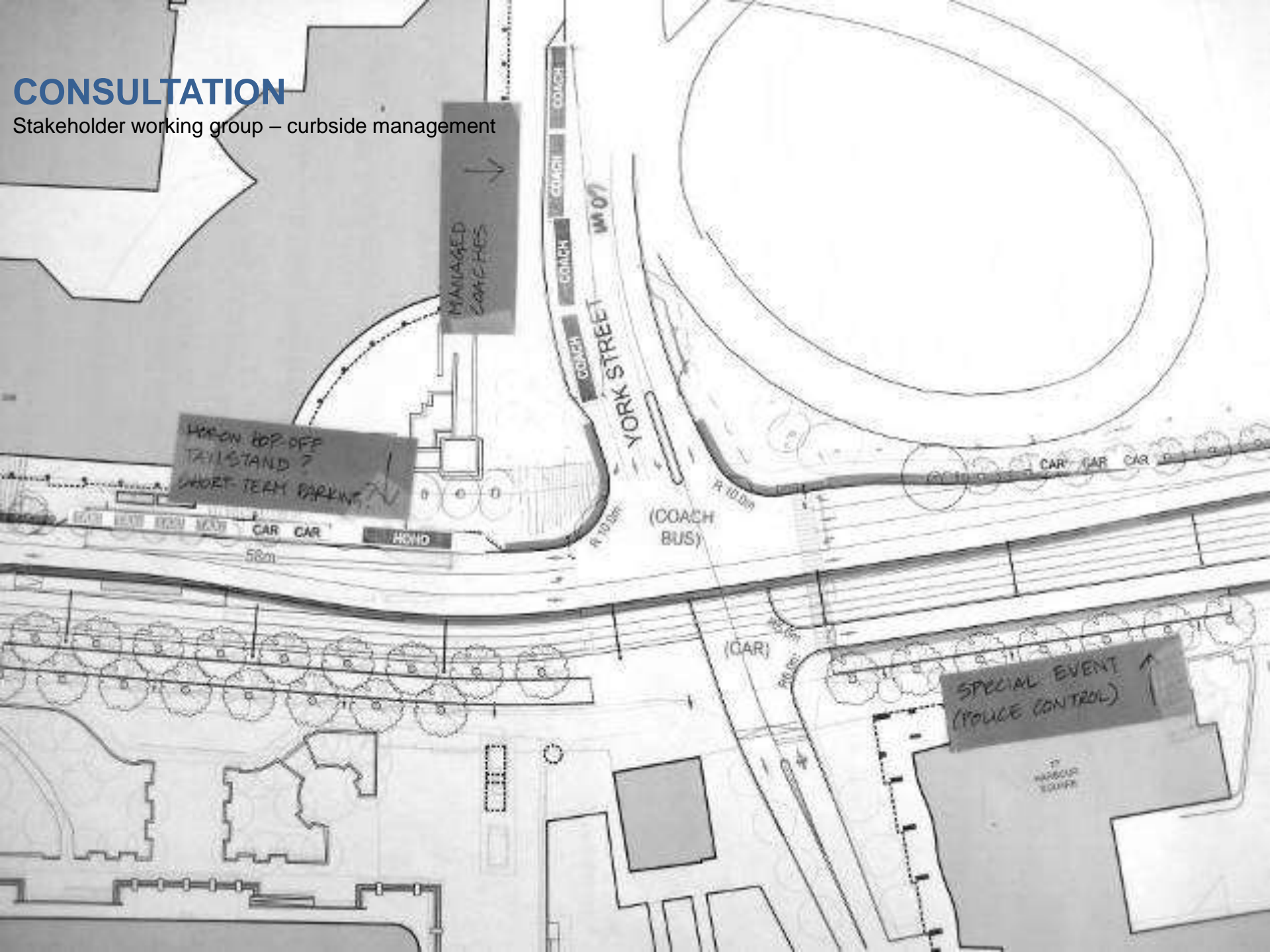
CONSULTATION

Radisson Access Workshop



CONSULTATION

Stakeholder working group – curbside management



CONSULTATION

BIA side walk



DESIGN REVIEW COMMENTS AND CONSULTATION

Different stakeholders

- TTC – System Planning
- TTC – Street car Way
- TTC – Electrical
- Toronto Fire Services
- EMS
- Technical services – Third Party Review
- Technical services – Third Party Review – Utilities
- Technical services – Structures & Expressways
- Toronto Water
- Transportation services
- Transportation planning
- Community Planning
- Urban Design
- Parks, Urban Forestry & Recreation
- Urban Forestry
- Queens Quay Working Group meeting
- BIA
- Community update meeting
- Drop-in session
-

TYPICAL SECTION

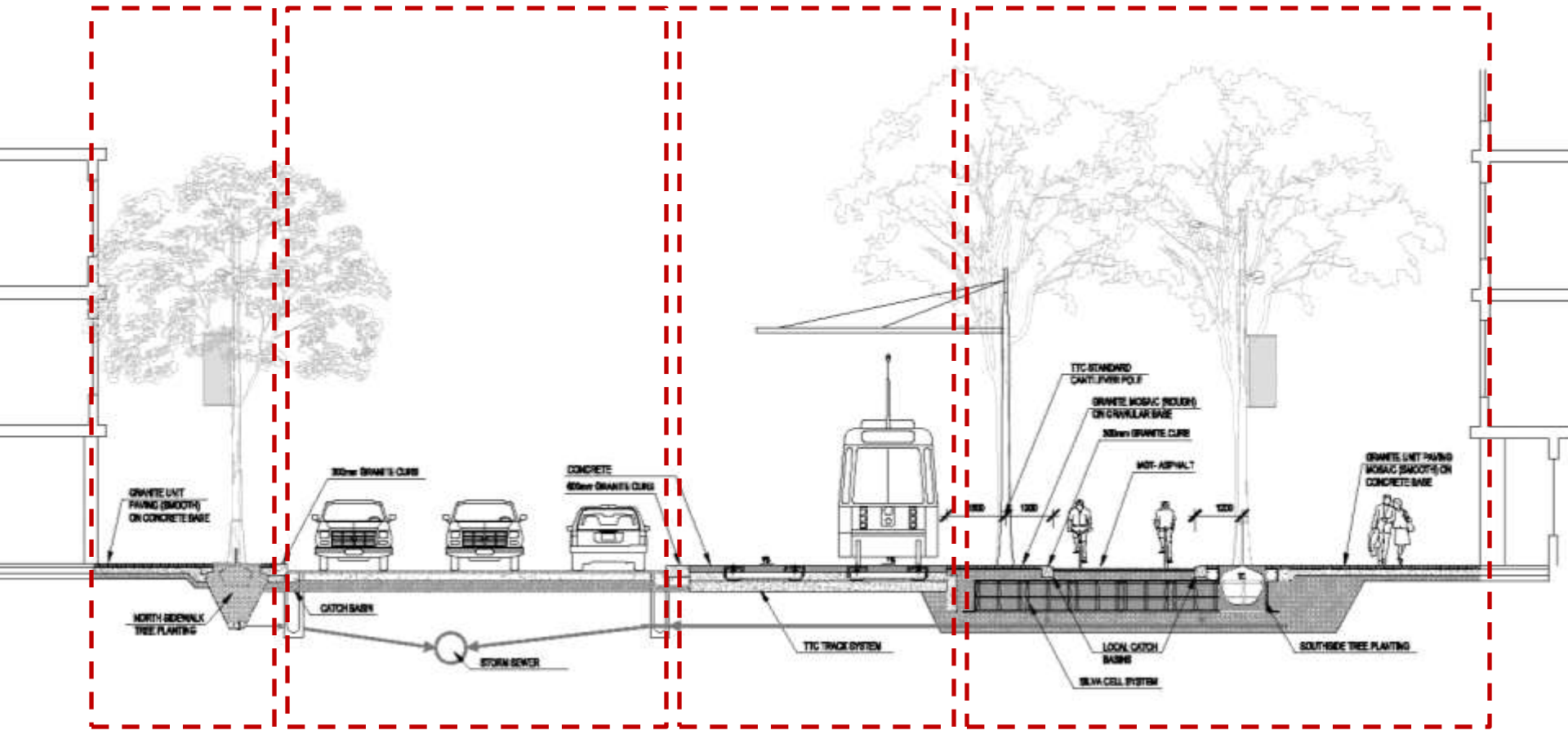
Detailed Design

>3.00m

6.60 – 9.60m

7.10m

13.60m



NORTH
SIDE
SIDEWALK

ROAD

TTC RIGHT
OF WAY
PLATFORMS

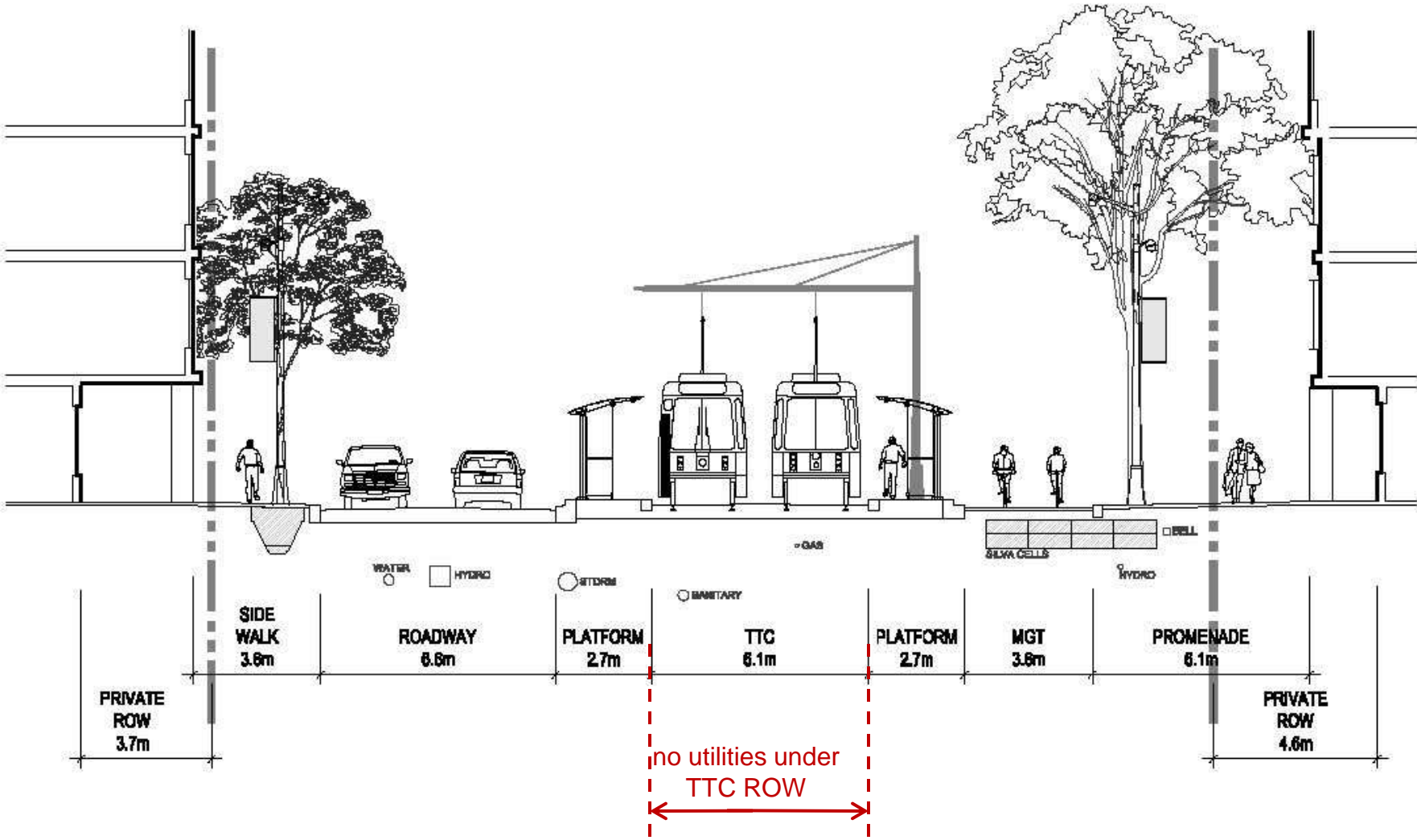
MGT
PROMENADE

1. UTILITY IMPACTS

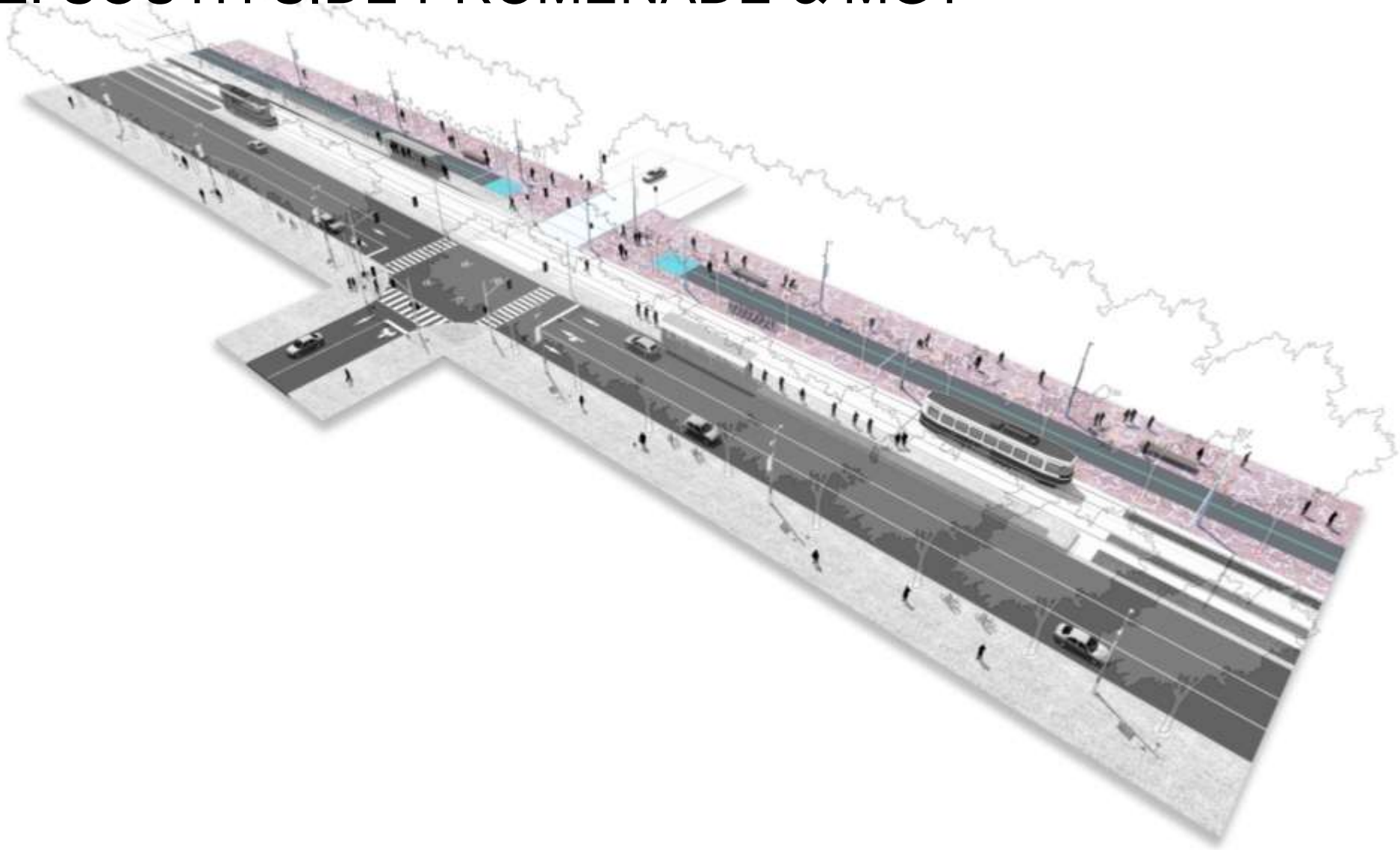


UTILITY IMPACTS

Detailed Design

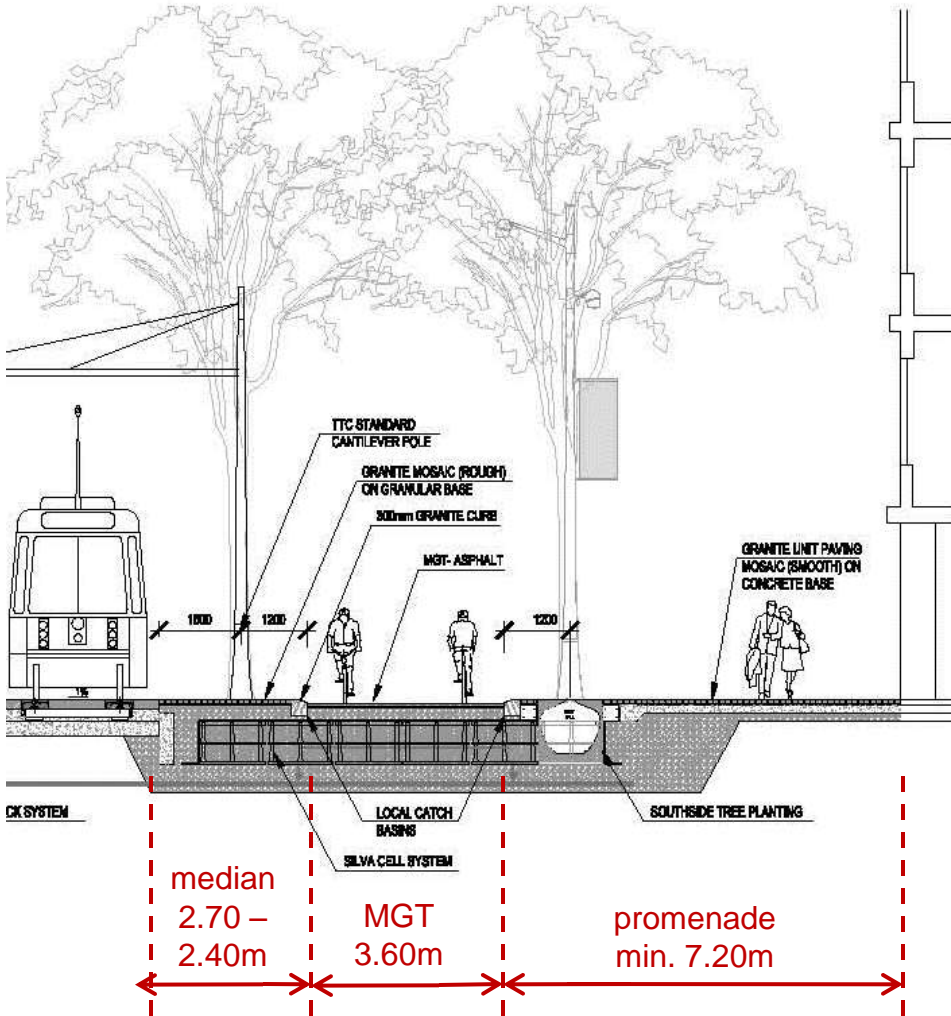


2. SOUTH SIDE PROMENADE & MGT



MINIMUM DIMENSIONS

South side promenade & MGT



- Promenade of 7.20m width – encroaching into south side properties and parks (HTO-park, Harbourfront center)

MOSAIC

South side promenade



- Contrast in texture – split face / waterjet topfinish
- Different color
- Mosaic – outline of a leaf motif
- No mosaic on private property

Two color mosaic - San Sebastian and Canadian Red



Contrast of texture



Outline mosaic pattern of the leaf motif

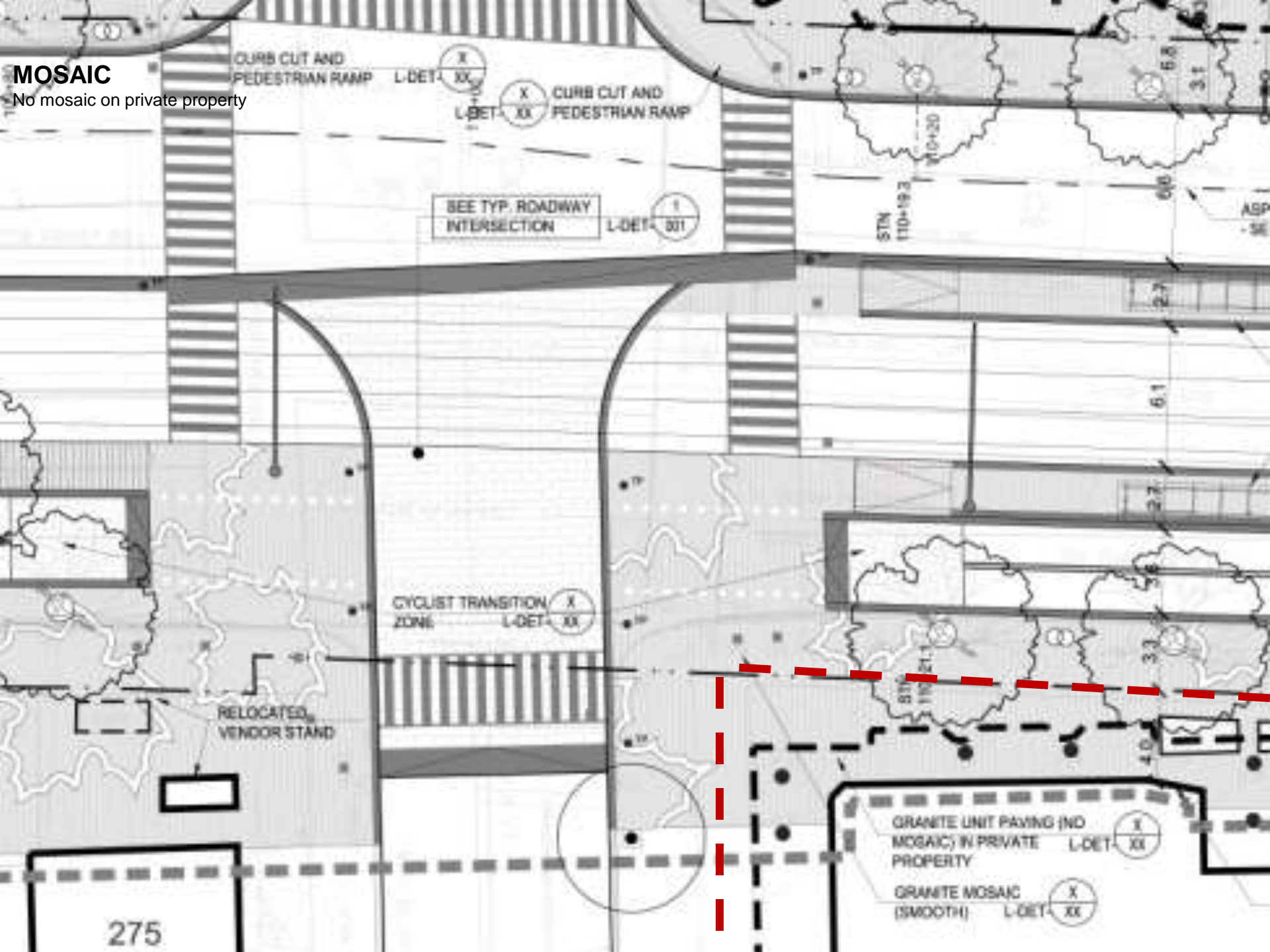


Paving Pattern Module – no mosaic on private ROW



MOSAIC

No mosaic on private property





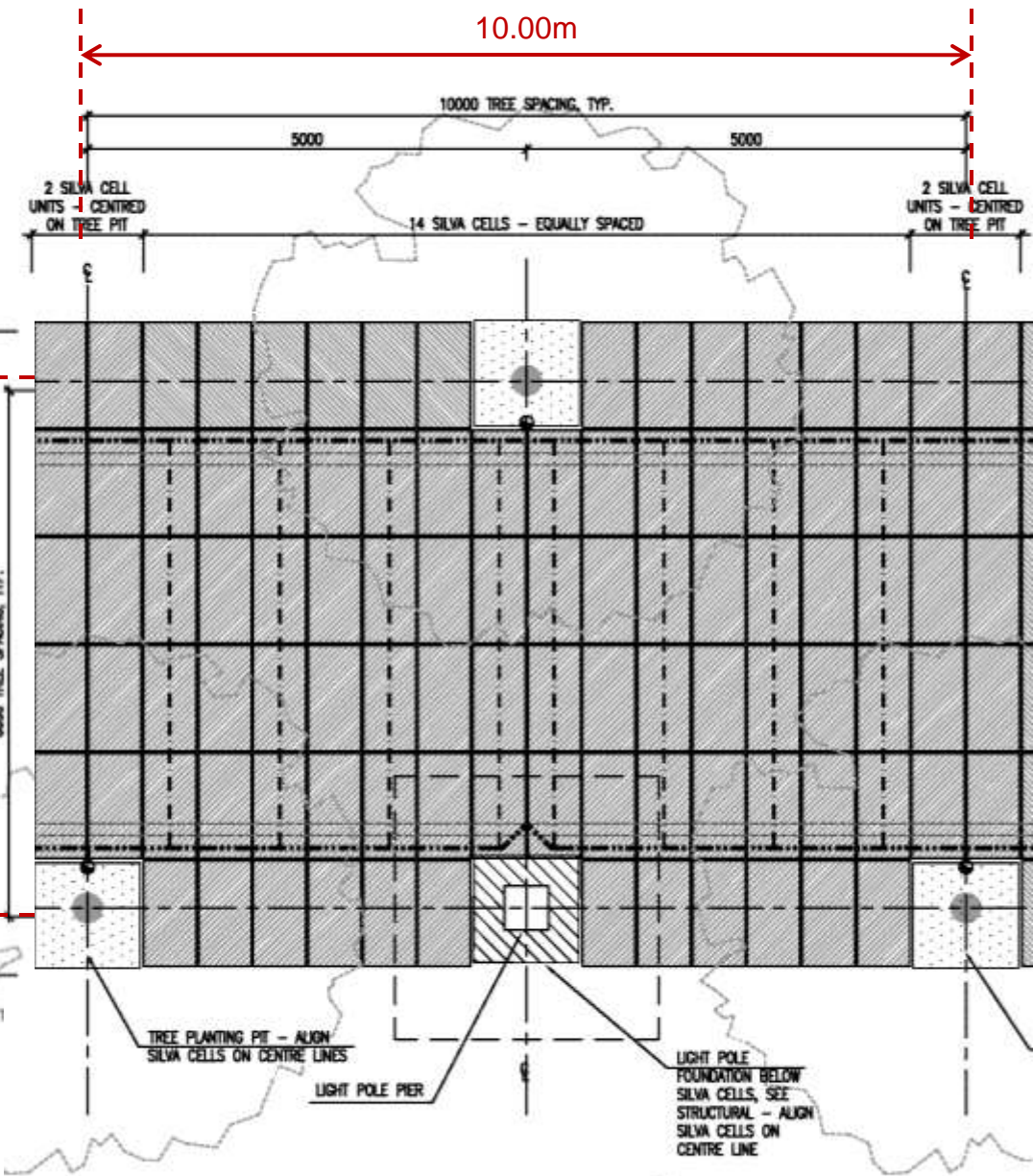
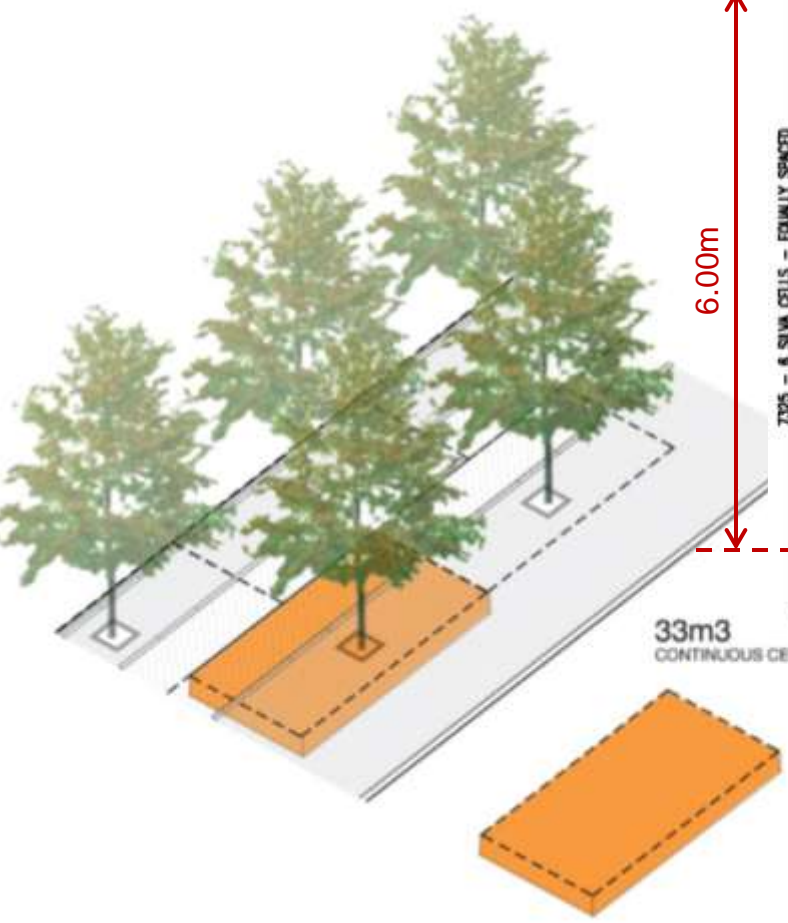
Water's Edge Promenade – reference

TREE PLANTING STRATEGY – CONDITIONS

Promenade & MGT

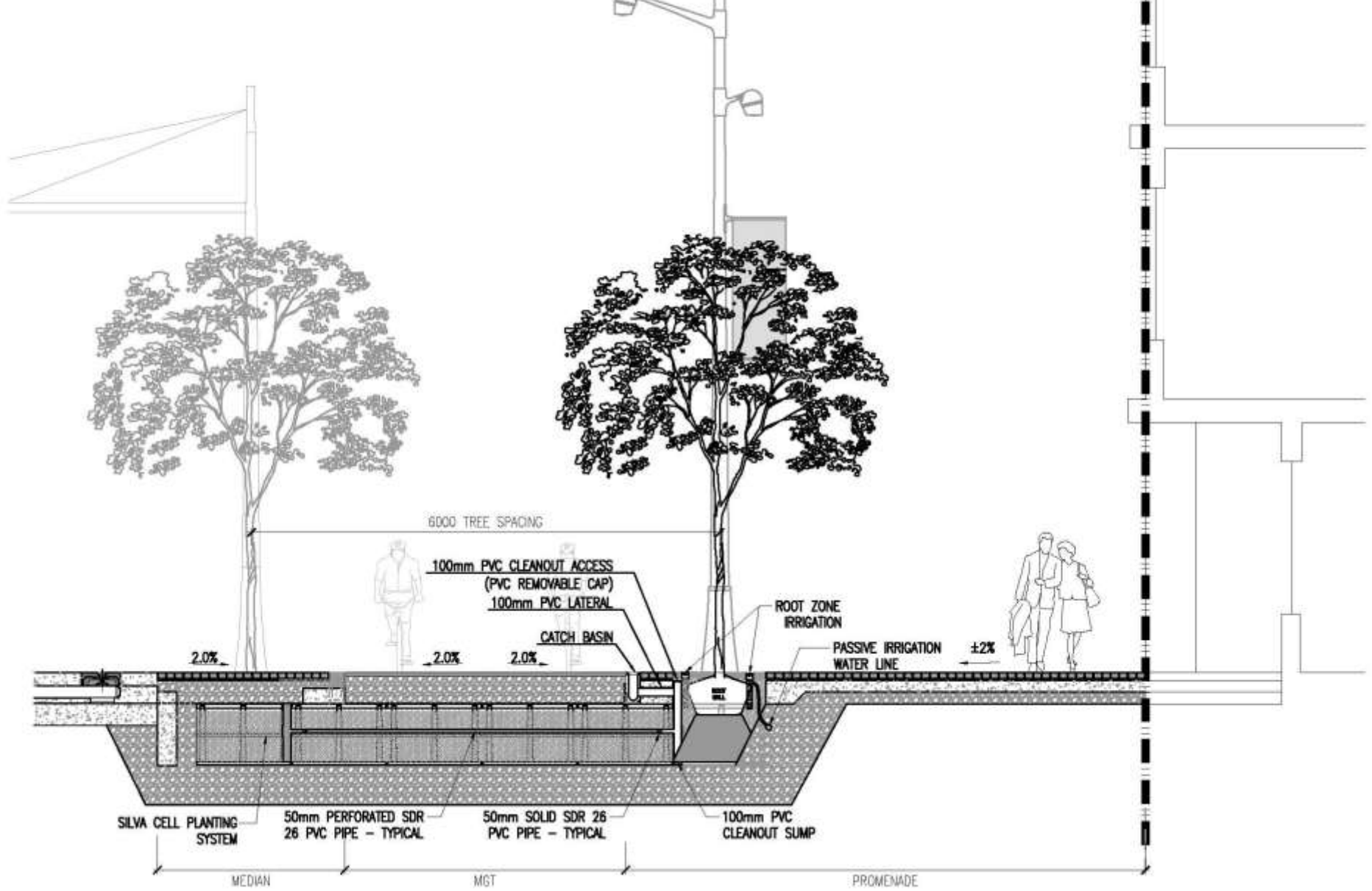
Creating the ideal conditions to plant a tree

Continuous silva cell system under trees and Martin Goodman Trail approximately 33m³/tree



TREE PLANTING STRATEGY – CONDITIONS

Promenade & MGT





Water's Edge Promenade – reference

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



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)





TREE PLANTING STRATEGY – SPECIES SELECTION

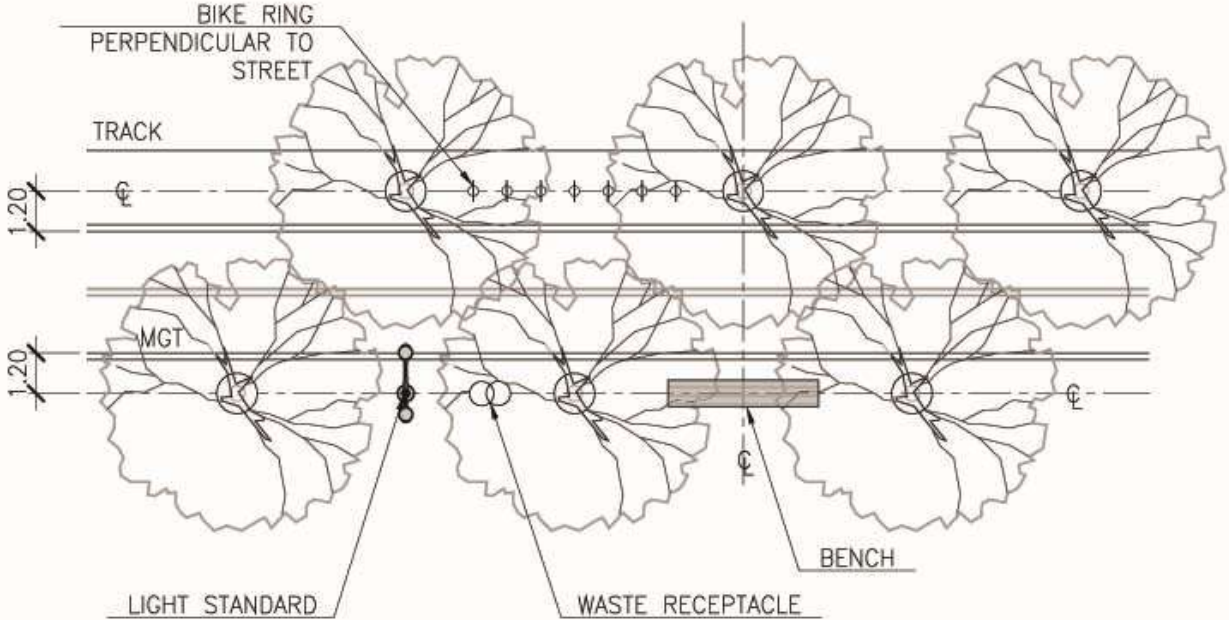
Promenade & MGT



Platanus occidentalis (Plane tree)

PLACING STRATEGY STREET FURNISHING

Promenade & MGT



Light pole



Bench



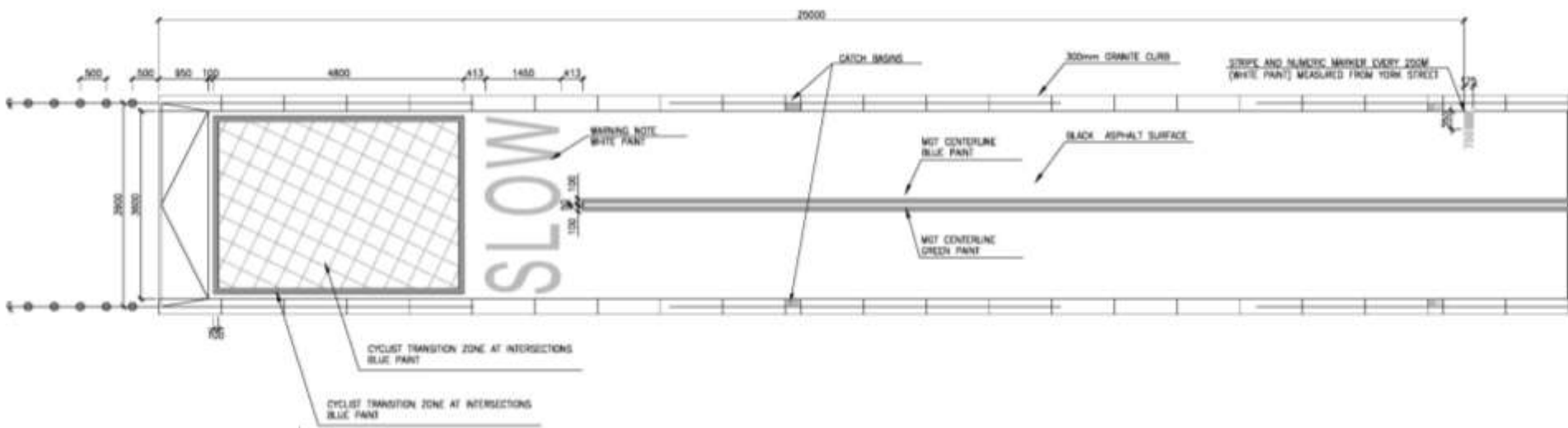
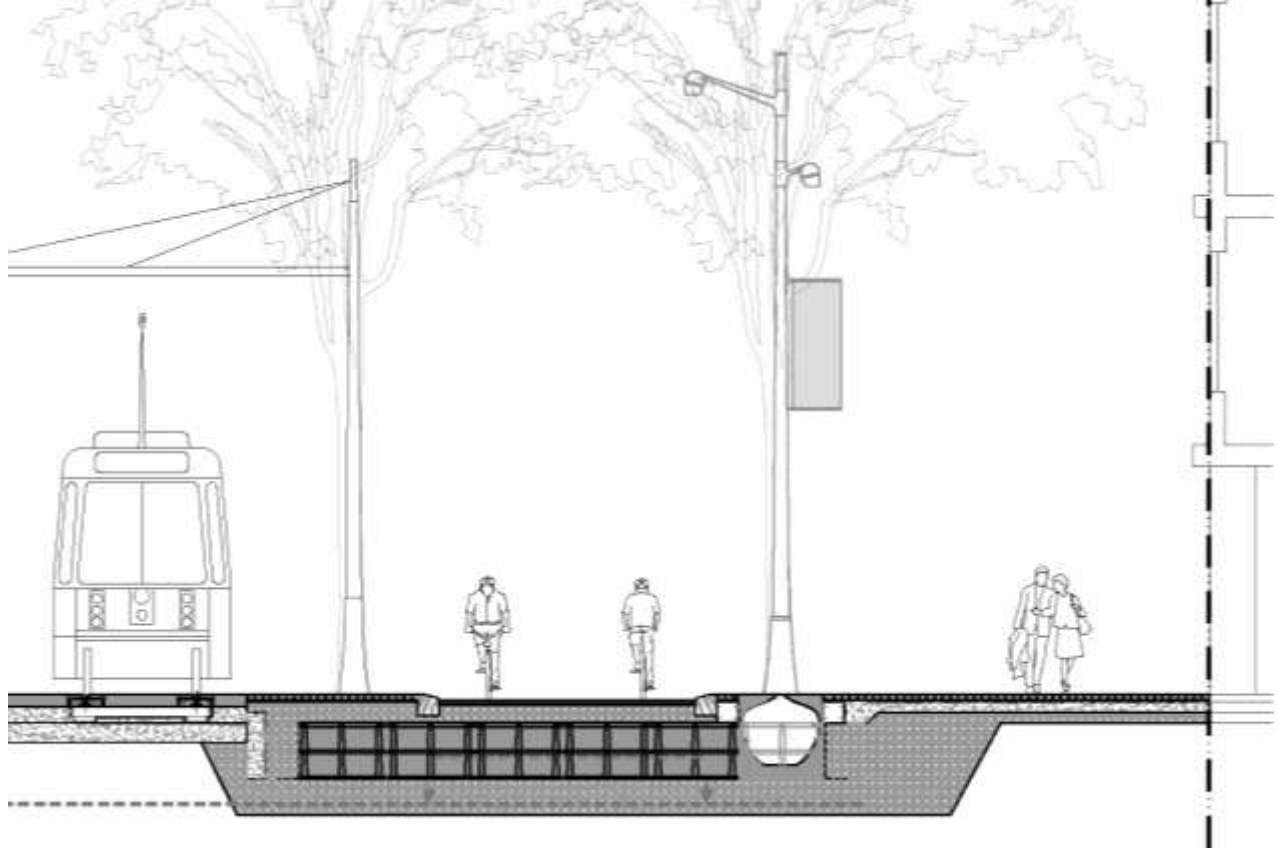
Waste receptacle



Bike ring

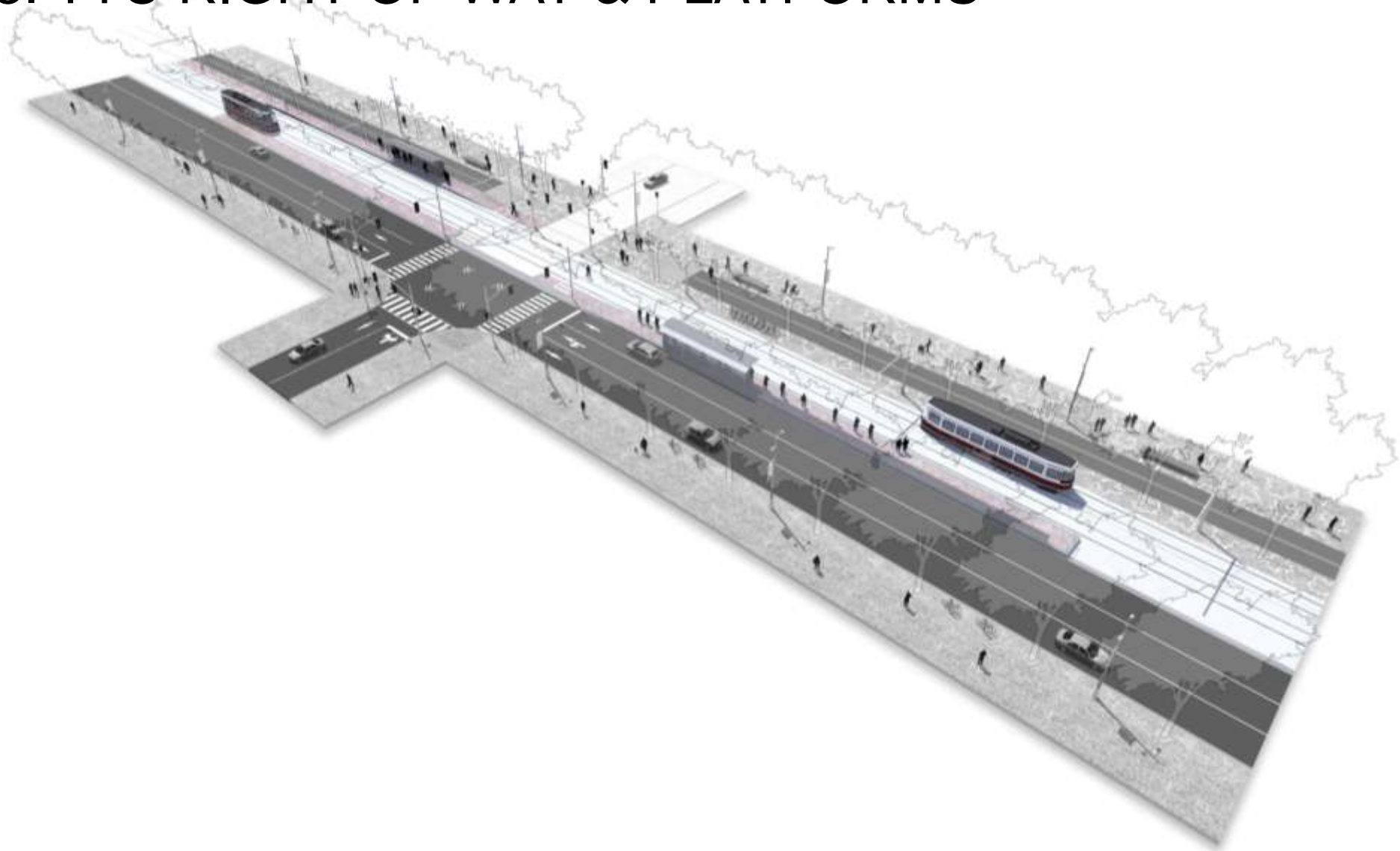


DETAILS
Martin Goodman Trail



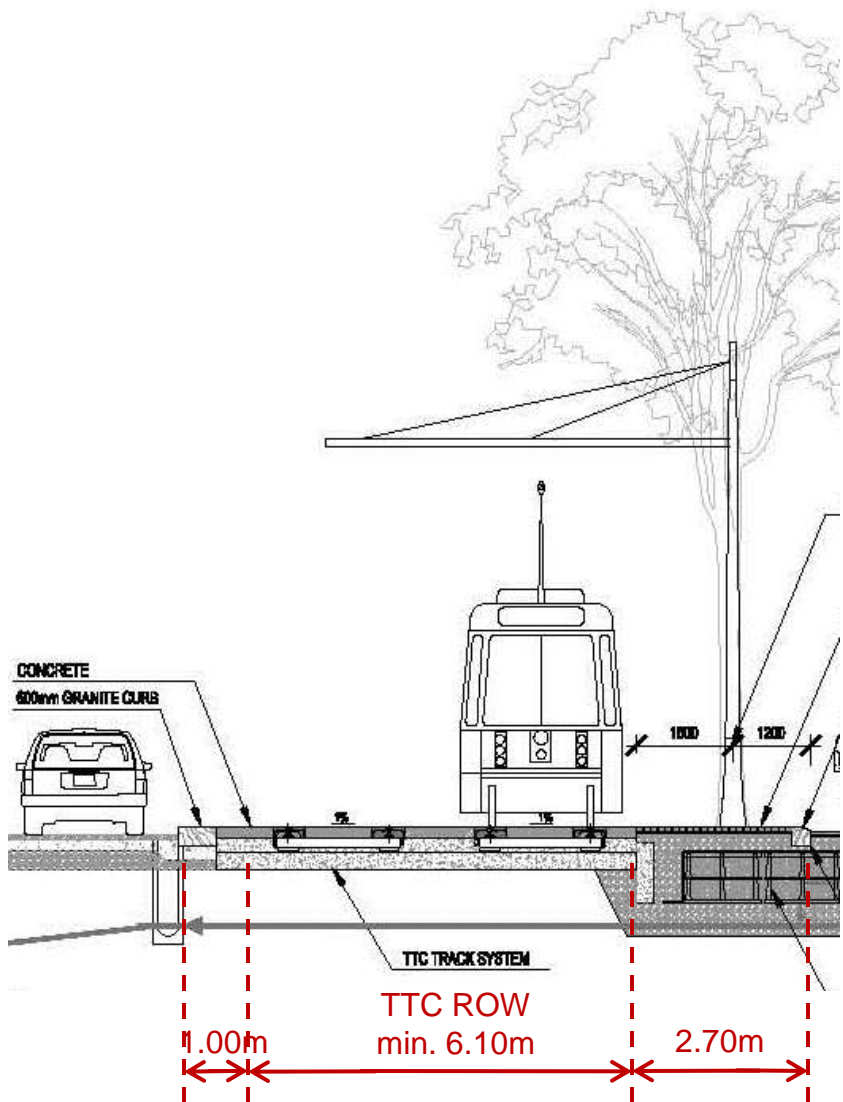


3. TTC RIGHT OF WAY & PLATFORMS



MINIMUM DIMENSIONS

TTC Right of Way

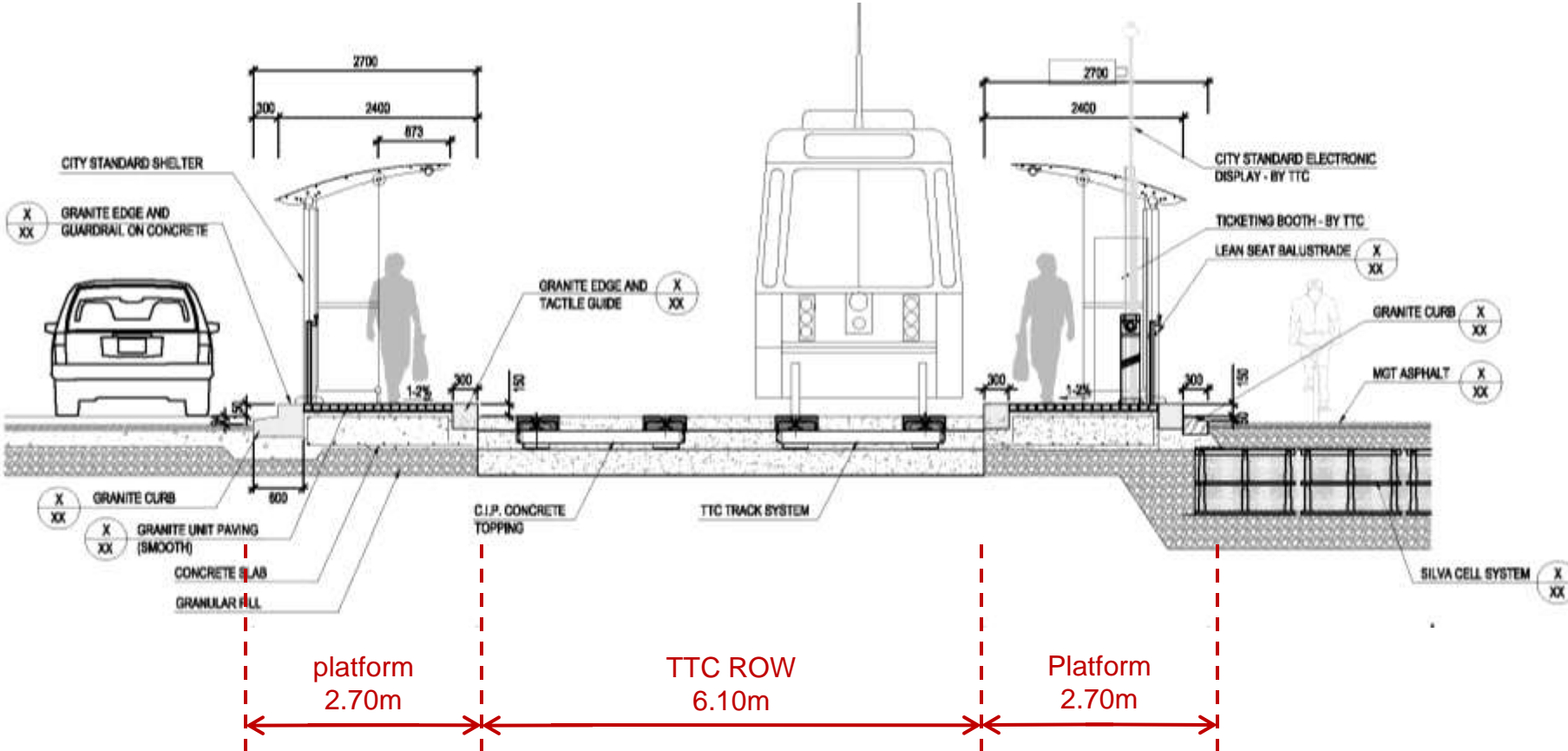


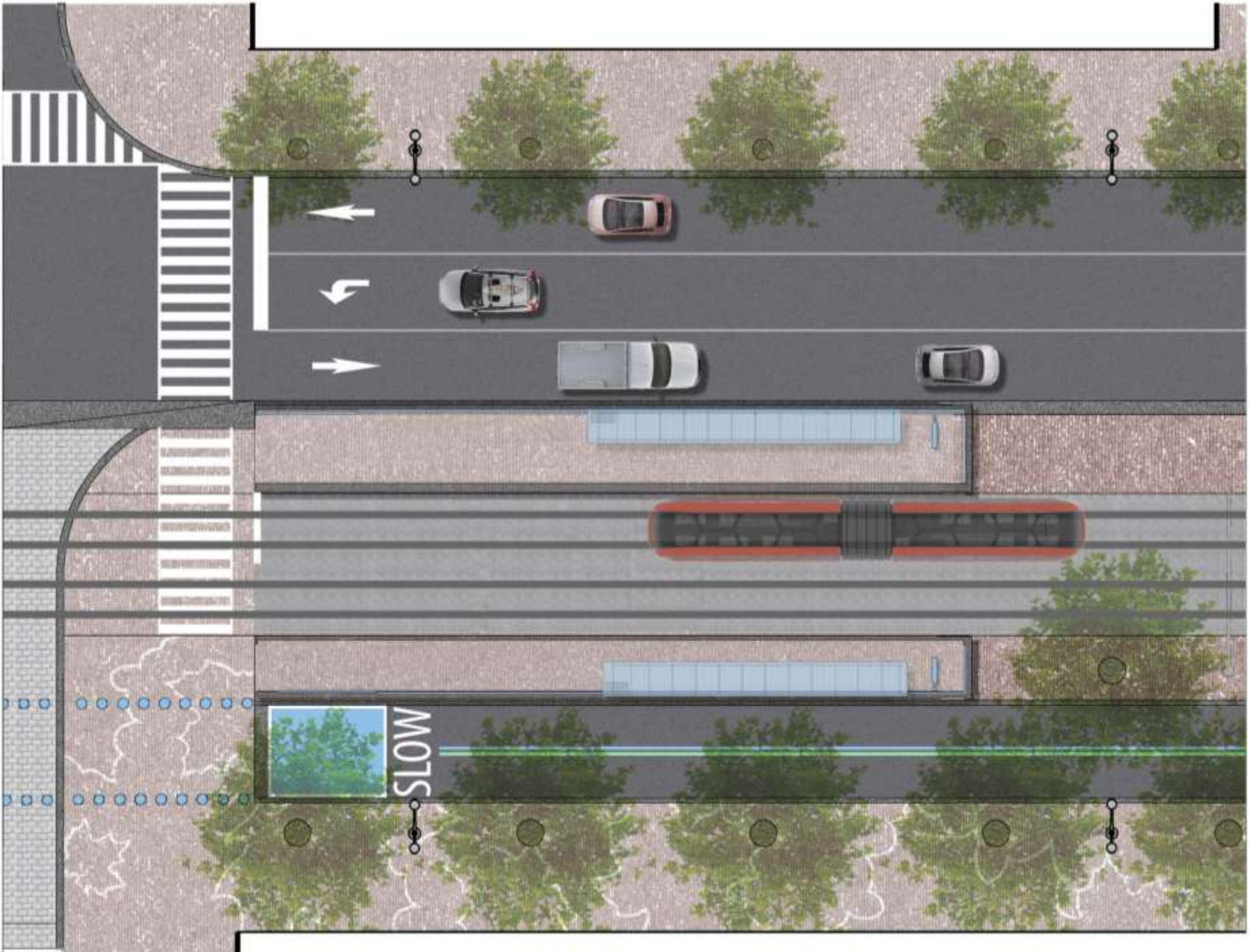
- 5" curb stone (pending on Safety Audit)
- 1.00m width (pending on Safety Audit)
- Min. platform width – 2.40m
- No utilities under TTC Track

MINIMUM DIMENSIONS

Platform design

- 2.40m width, 30m long, 6” height (current streetcar)
- Standard city shelter, 15m long
- Accessible for wheelchairs (1.40m clearance)





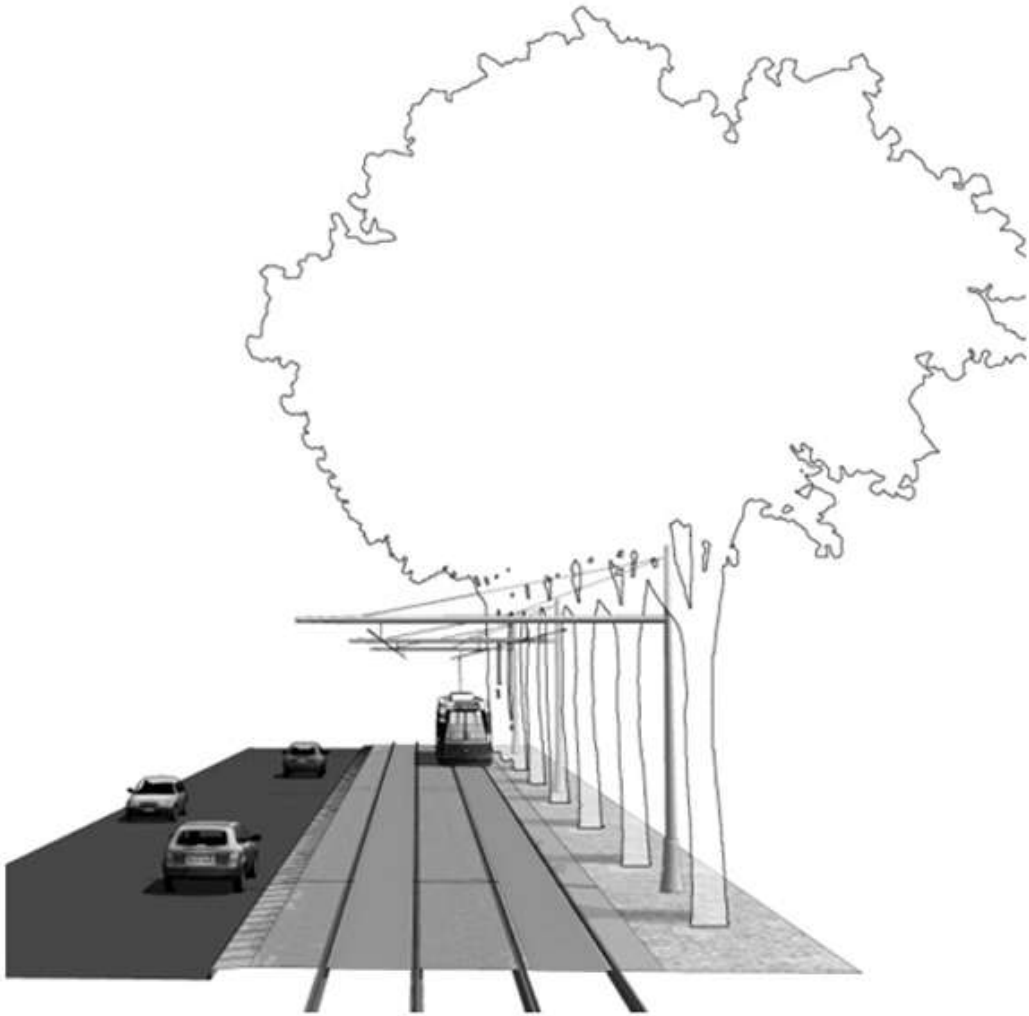
SLOW



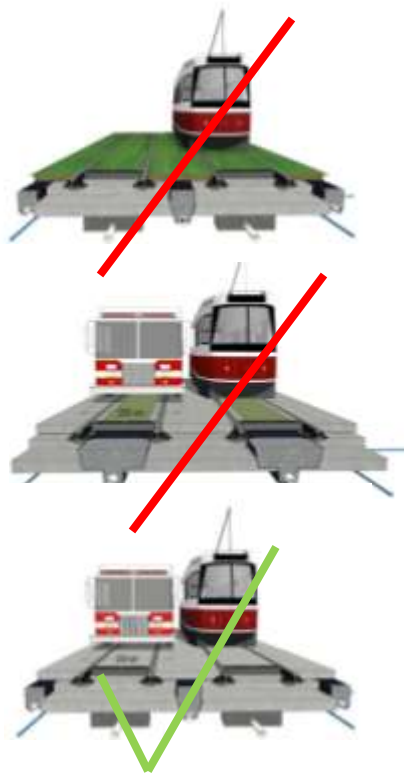
Illustration of the platform

MINIMUM DIMENSIONS

TTC Right of Way



- Side traction power poles
- Concrete paving
 - Typical TTC detail
 - Buses / EMS driving on TTC ROW
 - Fire code requirements (paved area)
 - Maintenance
- At intersection : granite and concrete unit paver

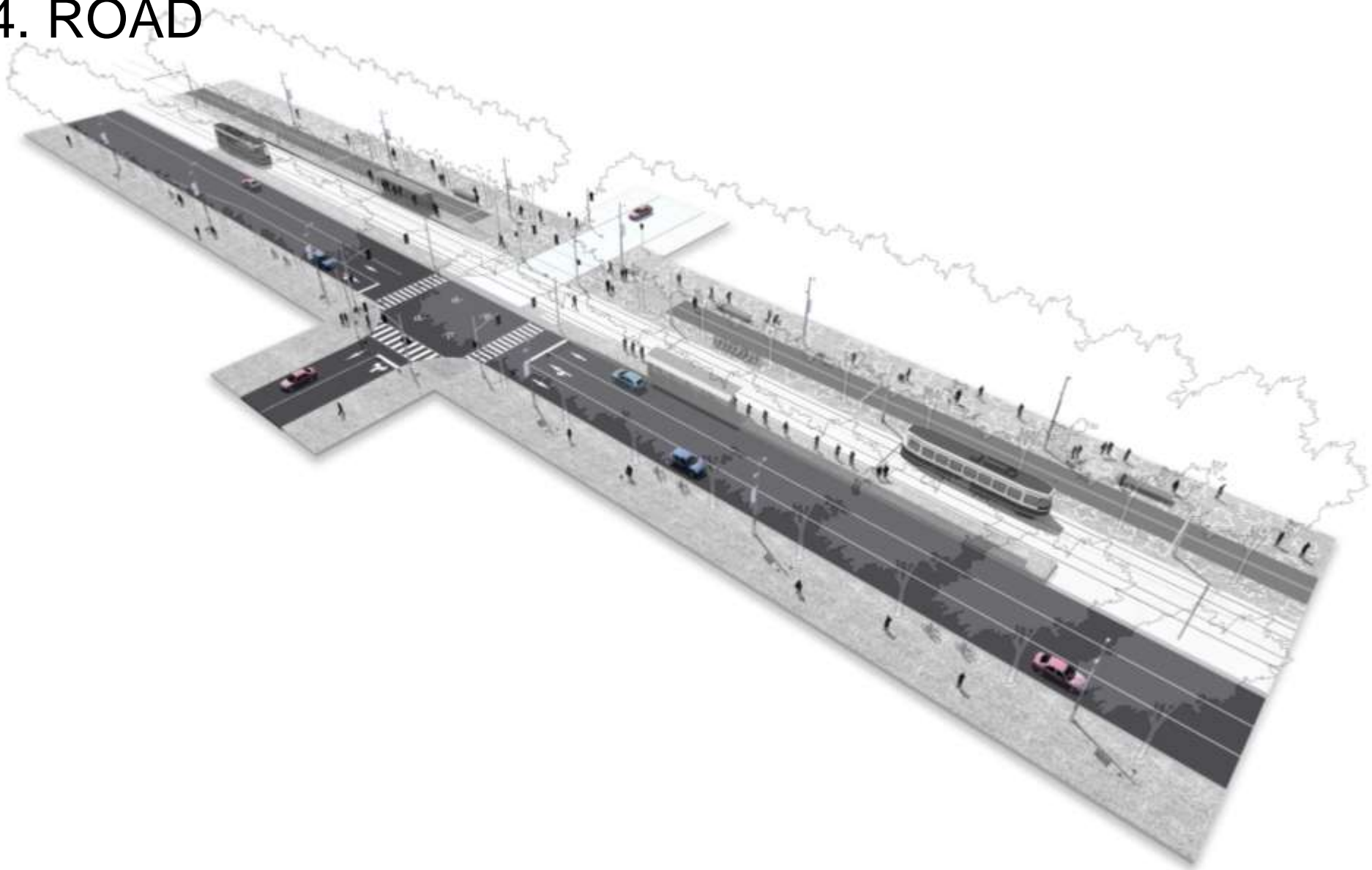


MATERIAL
TTC Right of Way





4. ROAD



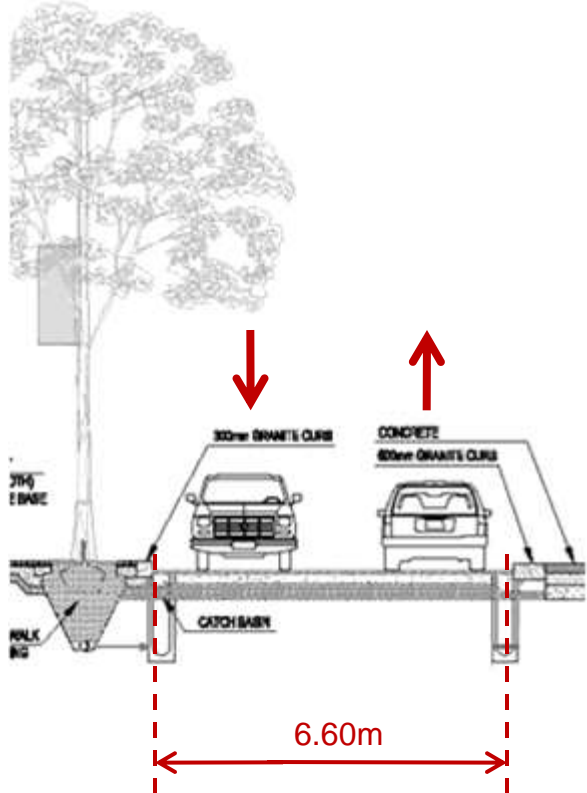
MINIMUM DIMENSIONS

Road

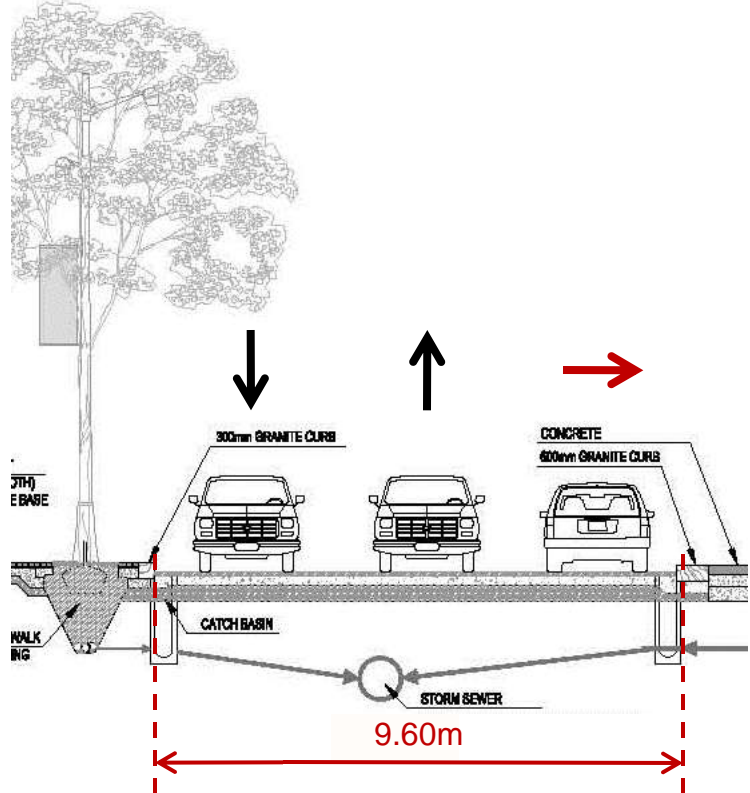
• 1 lane = 3.30m width

• 1 turning lane = 3.00m width

Typical road dimension

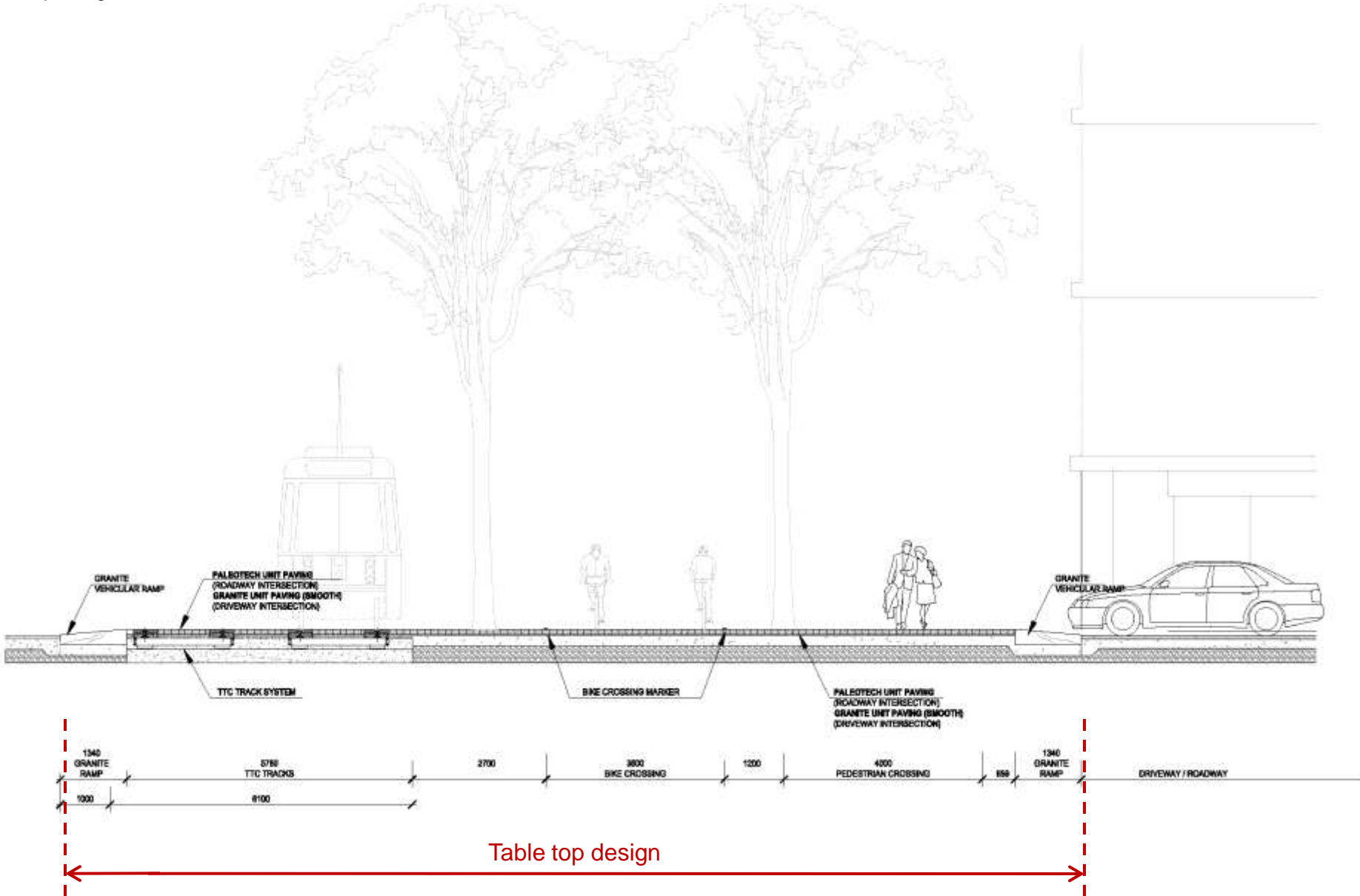


Road dimensions near an intersection



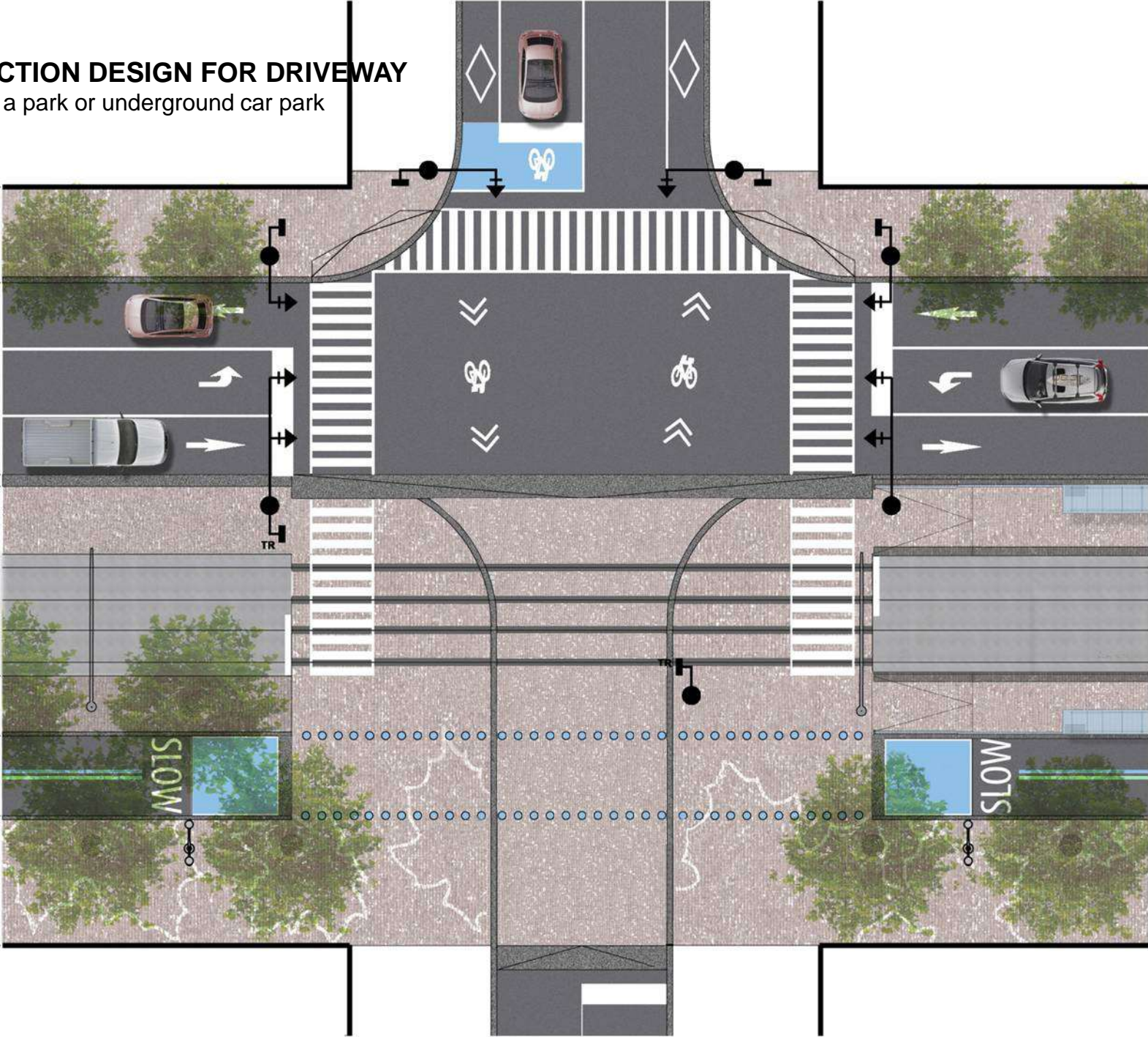
MINIMUM DIMENSIONS

Table top design



INTERSECTION DESIGN FOR DRIVEWAY

Entrance to a park or underground car park



INTERSECTION DESIGN FOR ROADWAY

Entrance to an innerstreet

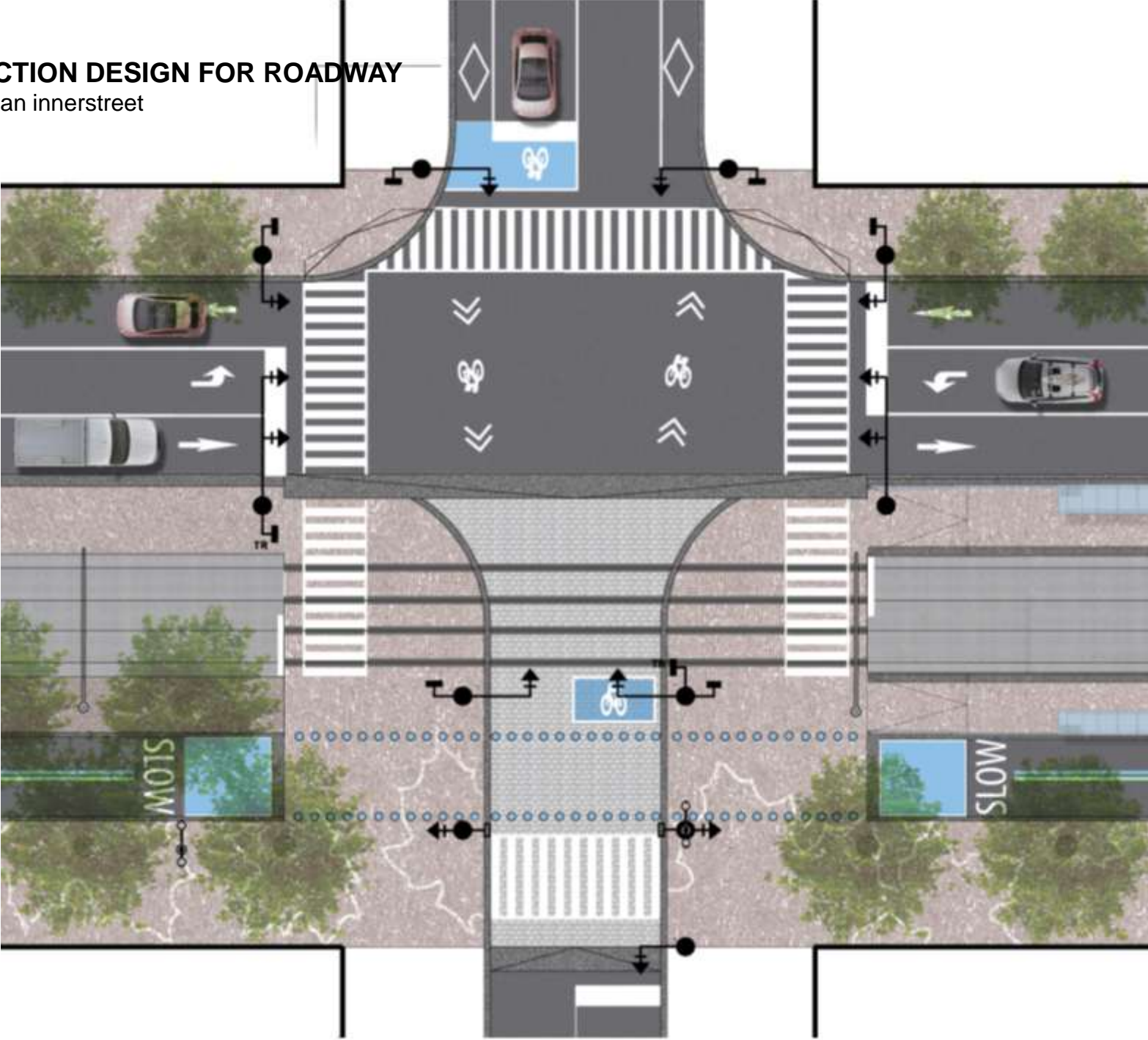
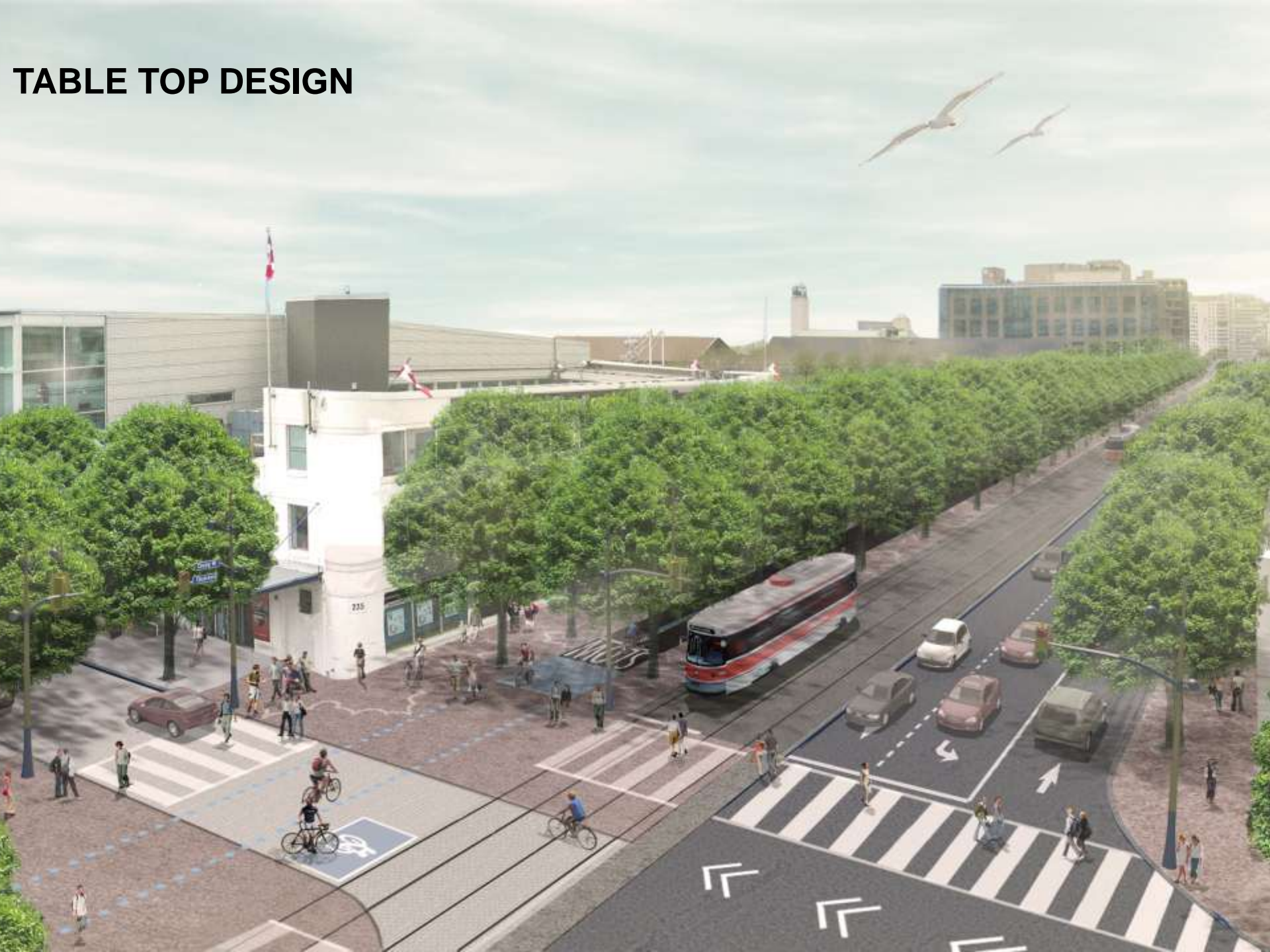
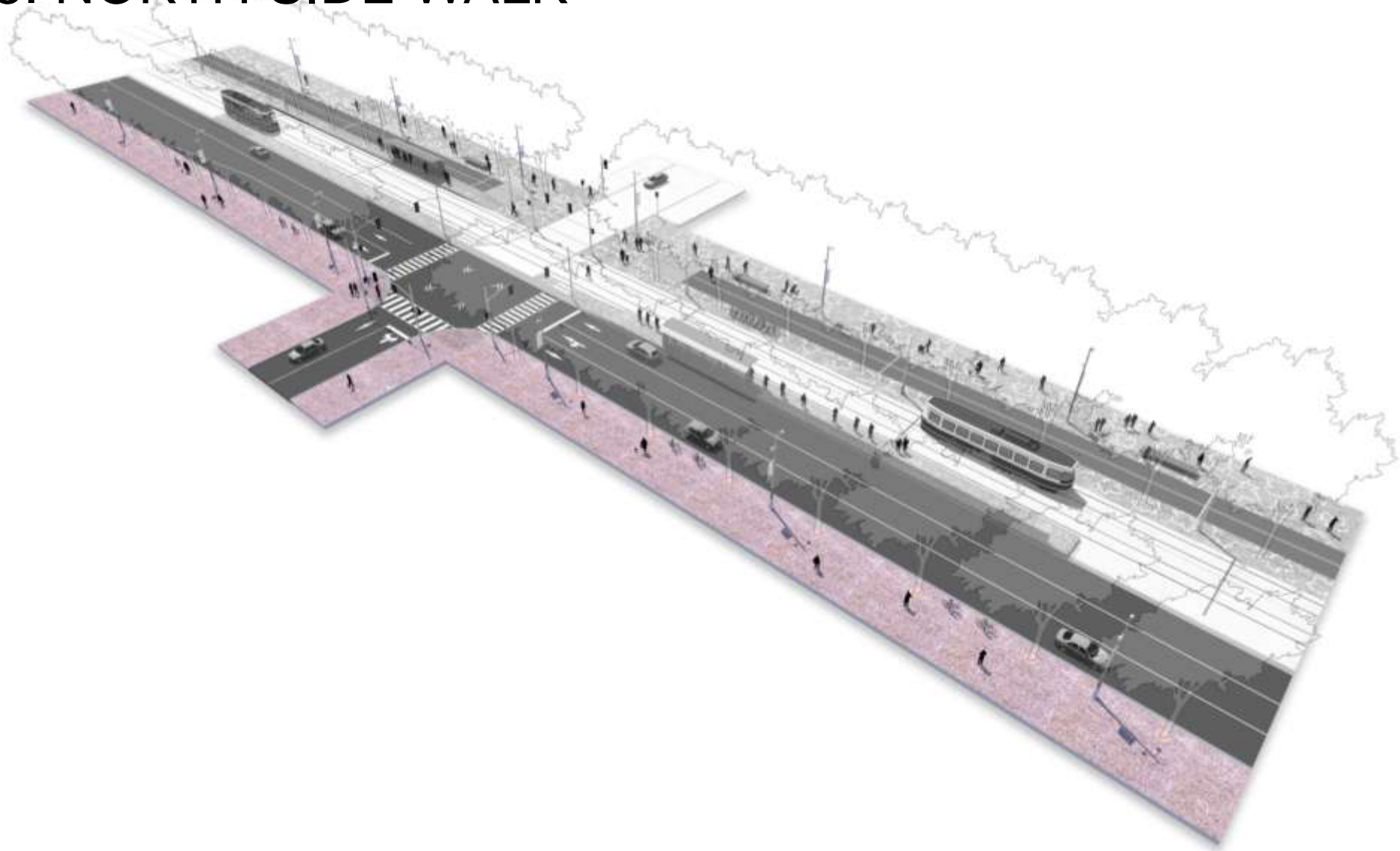


TABLE TOP DESIGN



5. 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

4. Paving

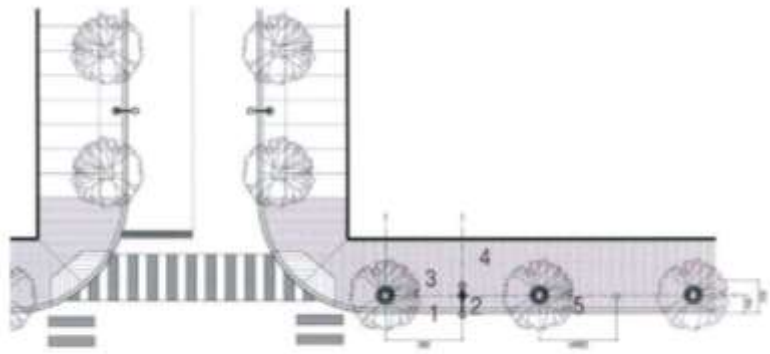


Red granite or concrete
t.b.c.

5. Tree Ring



- Intent to pave north side sidewalk from curb to building façade in granite unit paver, including private property
- One color – no mosaic



NORTH SIDE

Granite unit paver on private property

RE ST

NEW TRANSFORMER AND
METERING PANEL, REFER
TO ELECTRICAL



CURB CUT AND
PEDESTRIAN RAMP L-DET
XX



CURB CUT AND
PEDESTRIAN RAMP
L-DET
XX

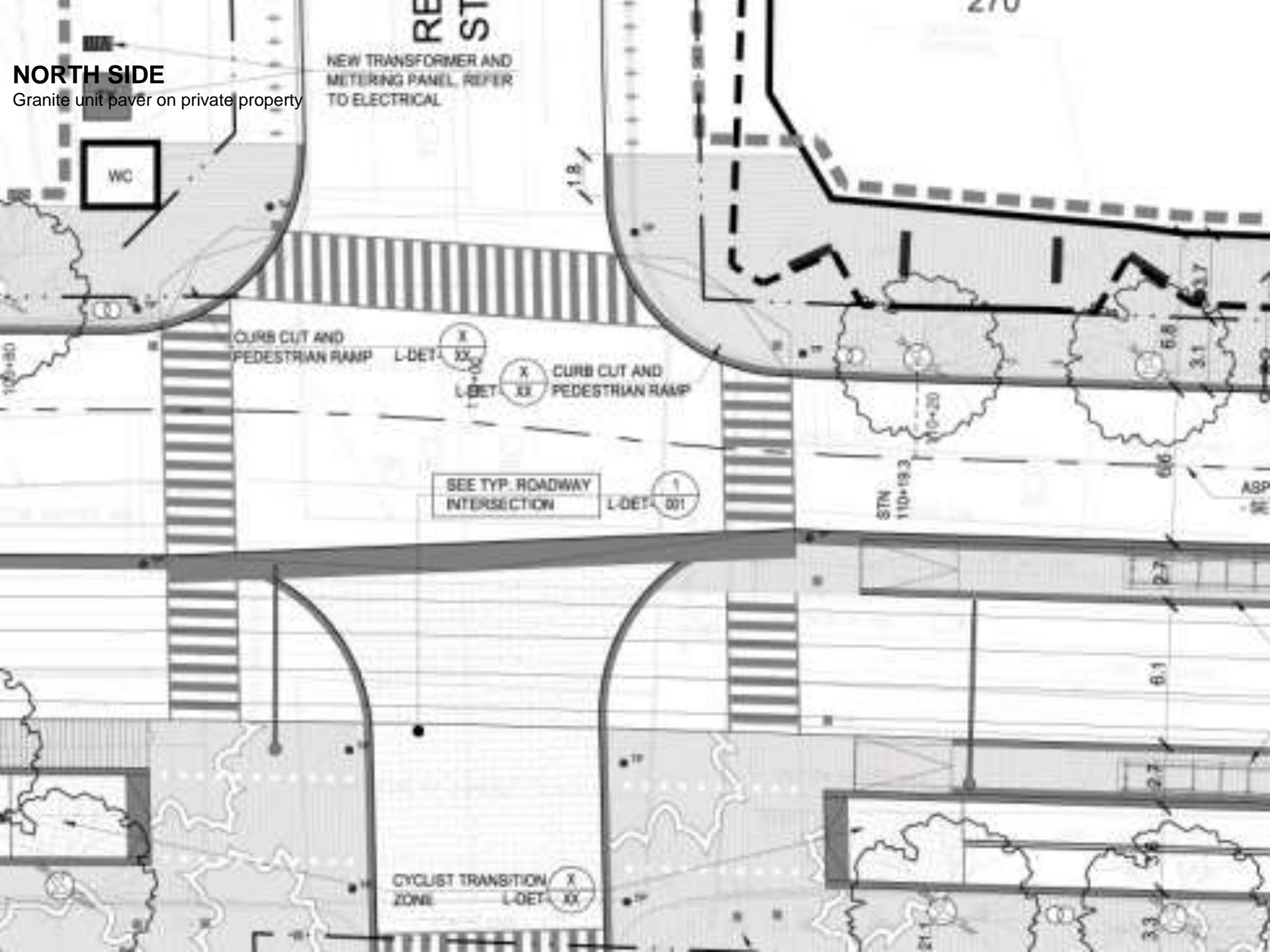
SEE TYP. ROADWAY
INTERSECTION



STN
110+19.3

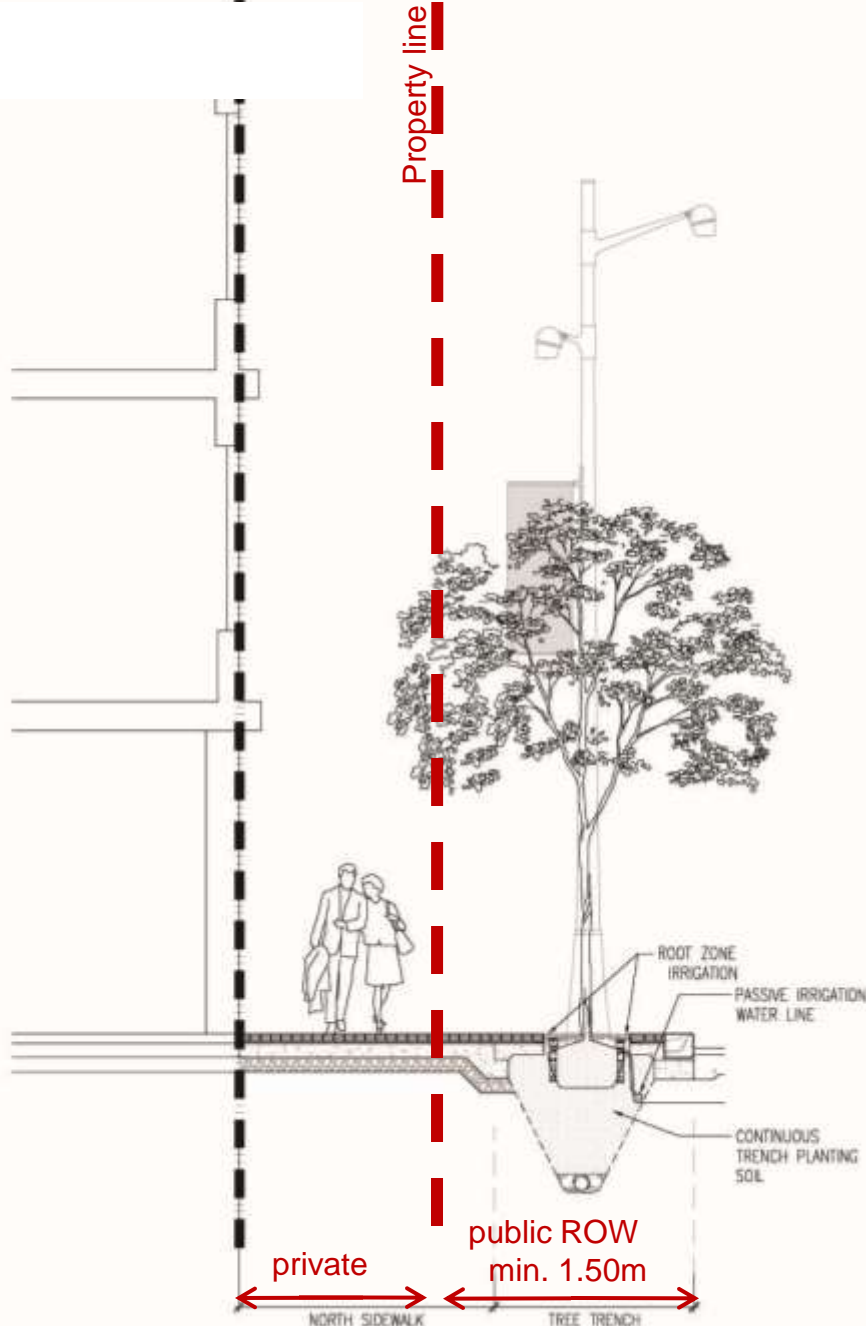
ASP
- 11'

CYCLIST TRANSITION
ZONE L-DET
XX



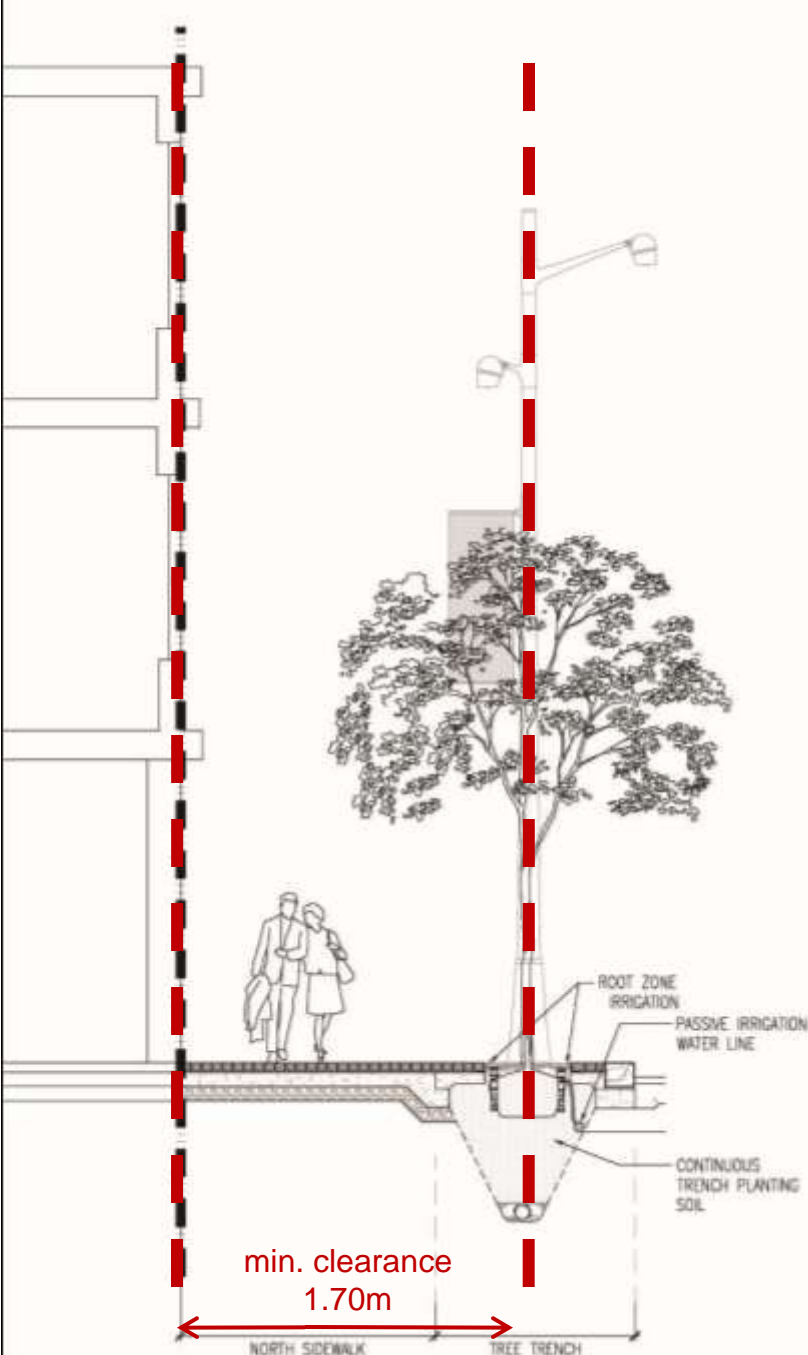
MINIMUM DIMENSIONS

North side walk



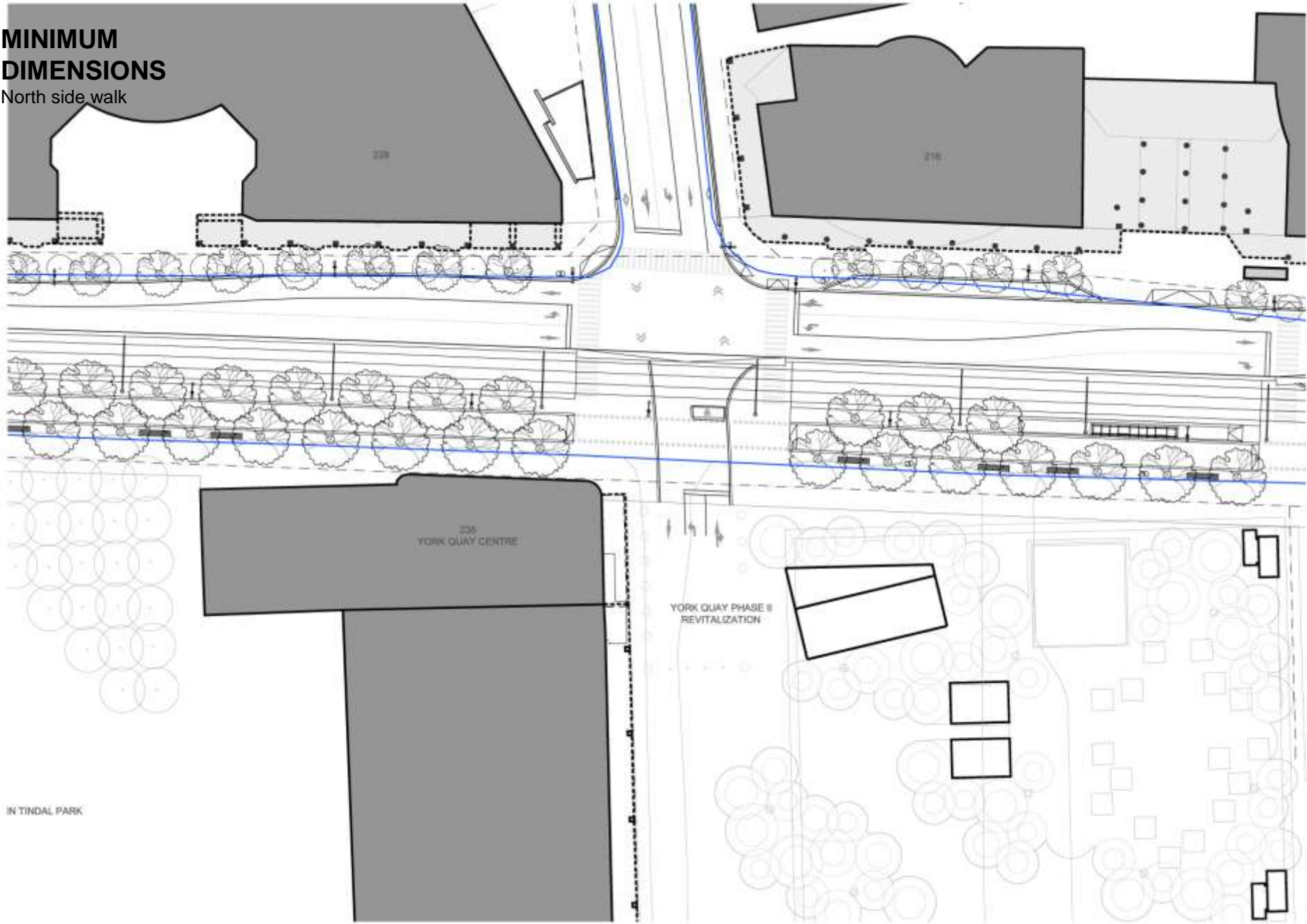
MINIMUM DIMENSIONS

North side walk



MINIMUM DIMENSIONS

North side walk

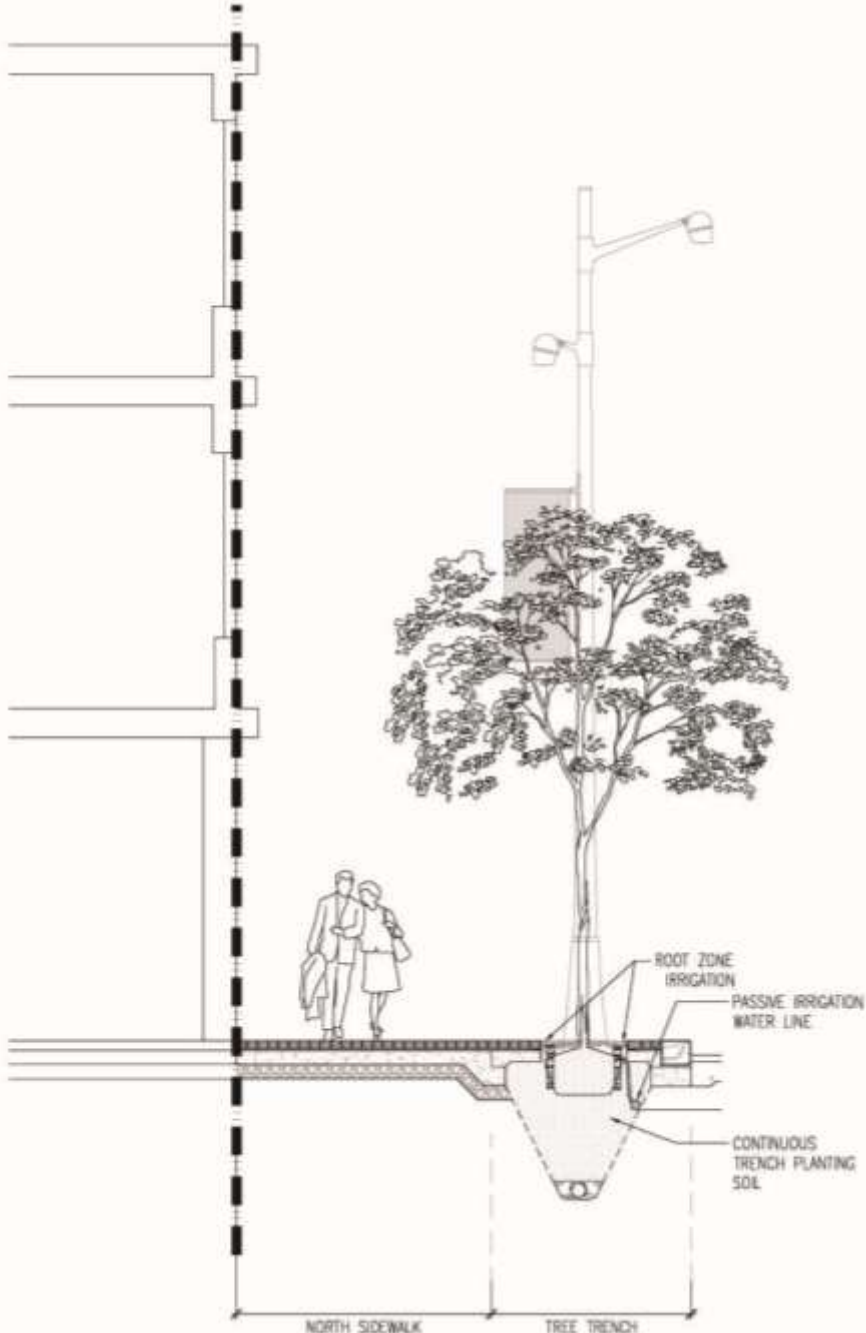
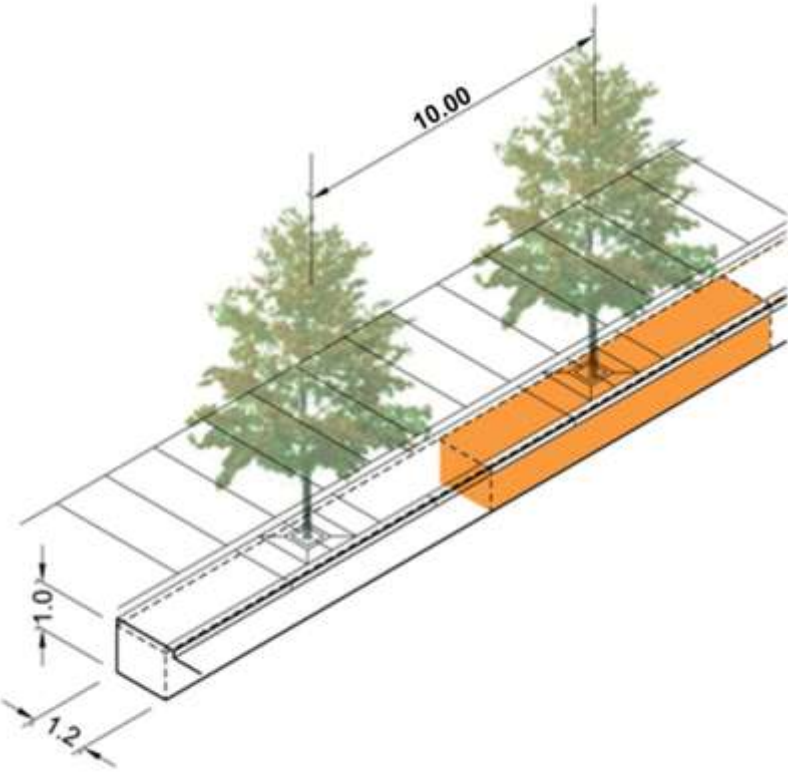


TREE PLANTING STRATEGY - CONDITIONS

North side walk

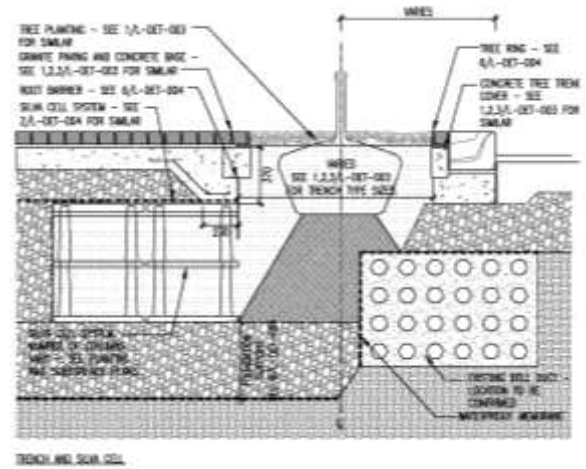
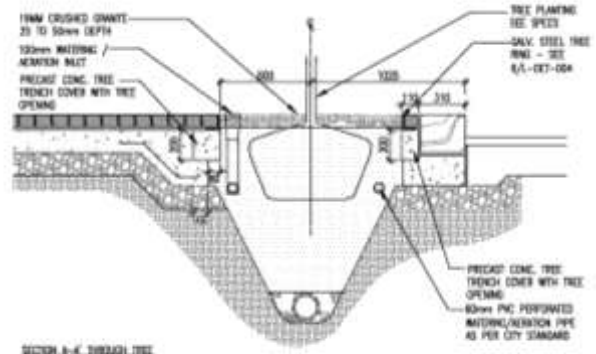
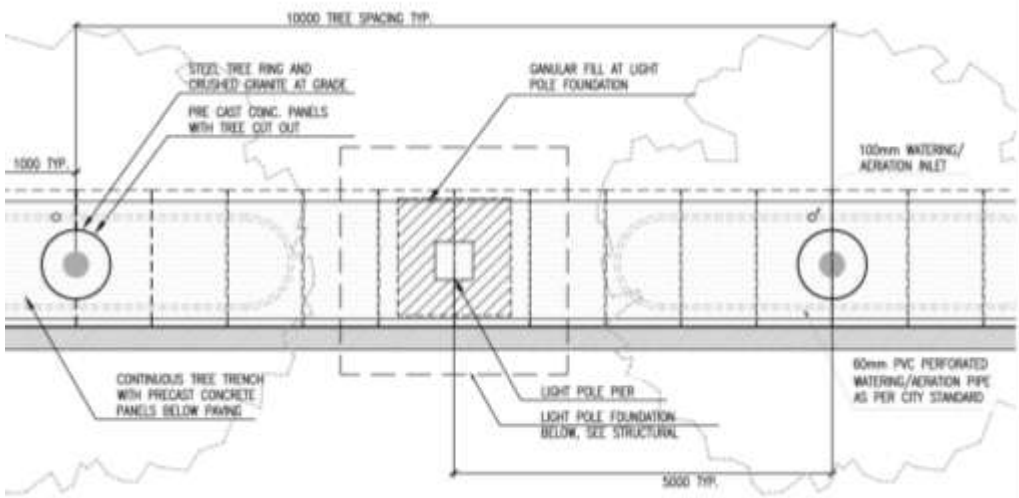
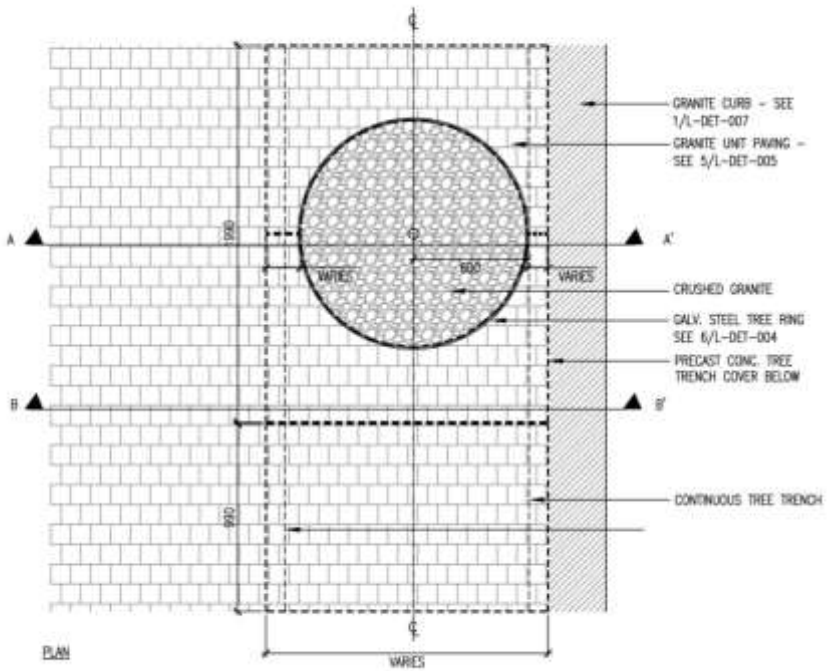
Creating the ideal conditions to plant a tree – 15m³ of good soil

Continuous tree trench system similar or greater than soil volume of City of Toronto Standard



TREE PLANTING STRATEGY - CONDITIONS

North side walk



TREE PLANTING STRATEGY – SPECIES SELECTION

North side walk

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

Corylus colurna / Turkish Hazel



Tilia / Greenspire Linden



Gleditsia / Sunset Honeylocust



Ulmus / Princeton Elm



Acer / Sunset Maple



Acer / Freeman Maple



TREE PLANTING STRATEGY

North side walk

Corylus columna / Turkish

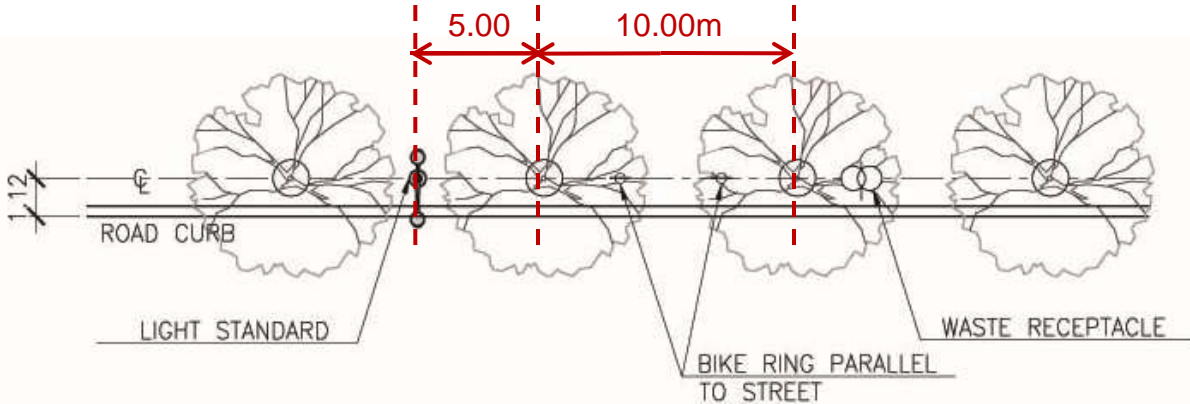


Gleditsia triacanthos 'Skyline' / Sunset



PLACING STRATEGY STREET FURNISHING

North side walk



Light pole



Garbage receptacle



Bike ring



at the Pa

CURB SIDE MANAGEMENT



Queens Quay Bus Management Strategy – Summary Update

City of Toronto Technical Advisory Group

April 5, 2011



CURBSIDE MANAGEMENT

Curbside Uses



CHARTER BUSES

CURBSIDE MANAGEMENT

Curbside Uses



CURBSIDE MANAGEMENT

Curbside Uses



LOADING / SERVICING

CURBSIDE MANAGEMENT

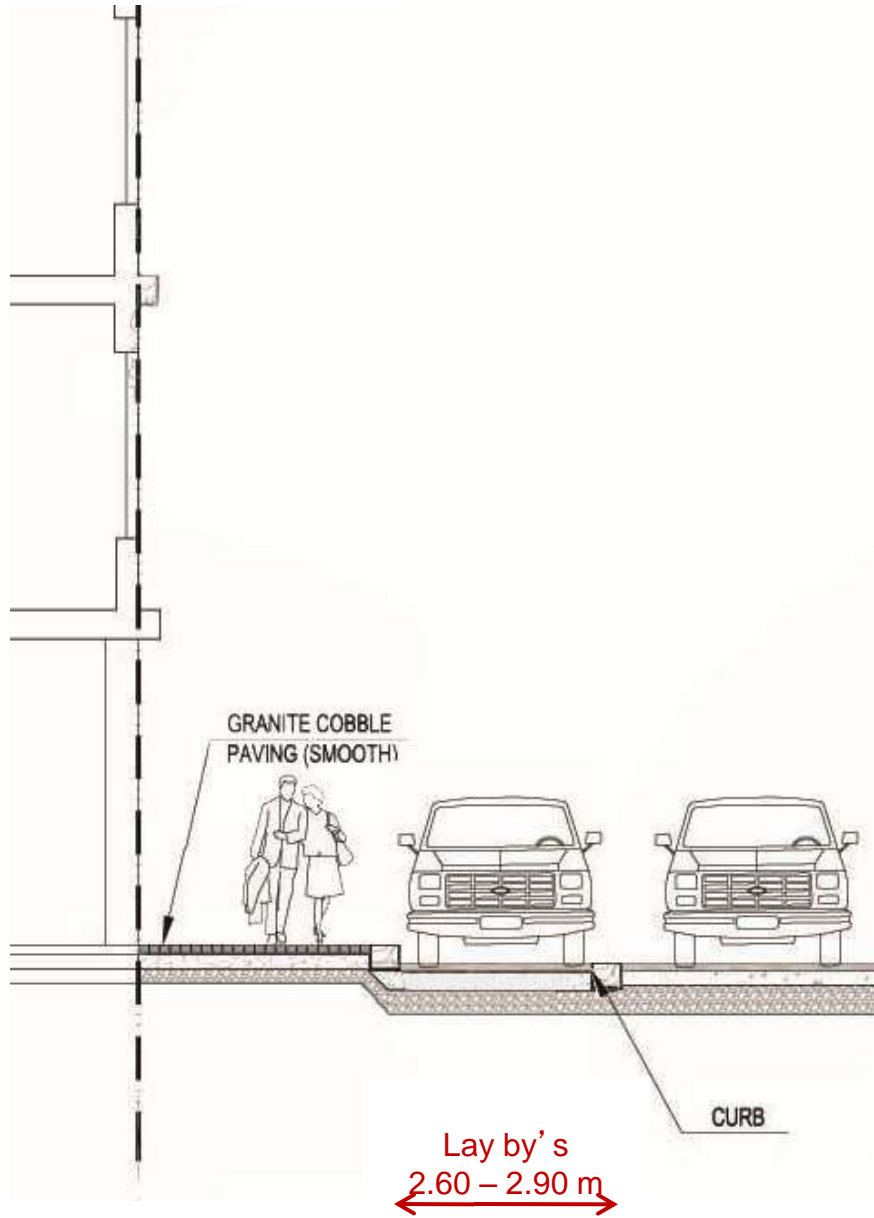
Curbside Uses



ON-STREET PARKING

MINIMUM DIMENSIONS

North side walk - program

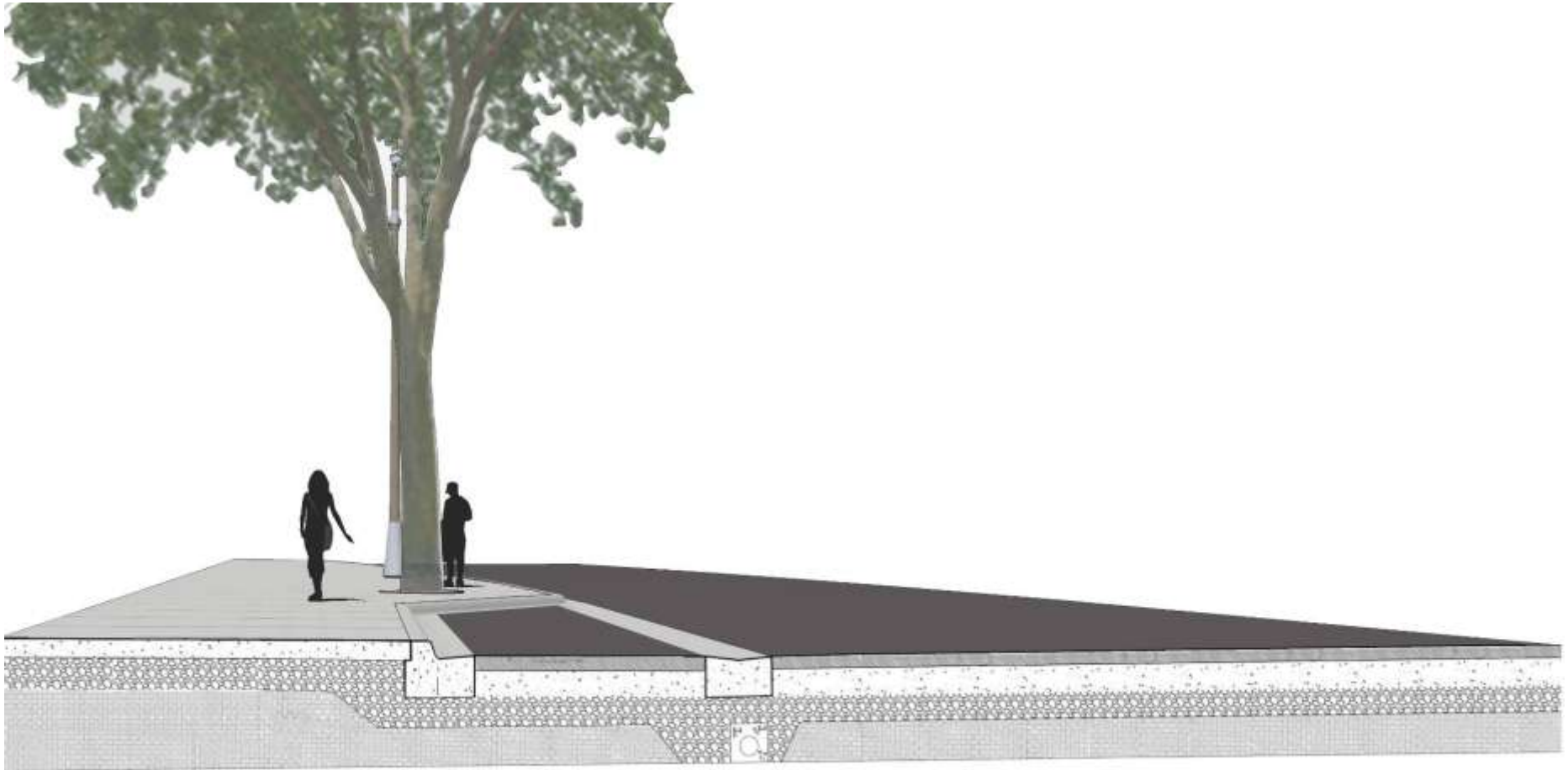


**NO MORE PARKING
ONLY
JUST PICK-UP
&
DROP OFF**

**INCORPORATE LAYBY'S INTO
THE PUBLIC REALM**

DETAILS

North side walk – layby design
Maintaining the public realm



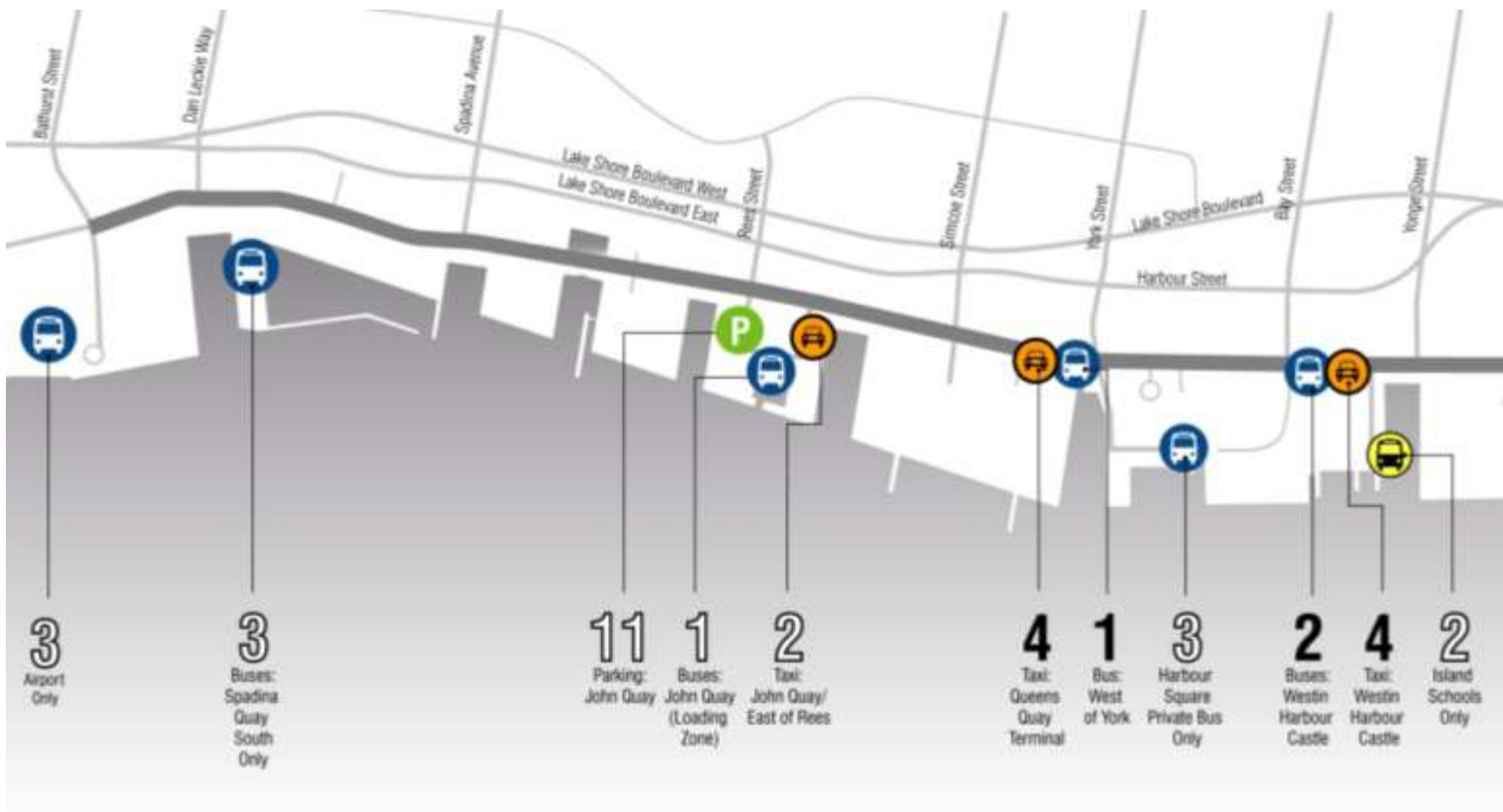
DETAILS

North side walk – layby design
Maintaining the public realm



CURBSIDE MANAGEMENT

Existing curbside Space Allocation



- Bus Drop-Off/Pickup & Hop-On/Hop-Off
- School Bus Drop-Off/Pickup
- Taxi Stands
- On-Street Parking (John Quay Only)
- On Queens Quay/Off Queens Quay

CURBSIDE MANAGEMENT

Mapping

● ● ● bus activity mapping zones 1-5

Thursday, August 19, 2010 – busiest day, all day (8 am – 6 pm)

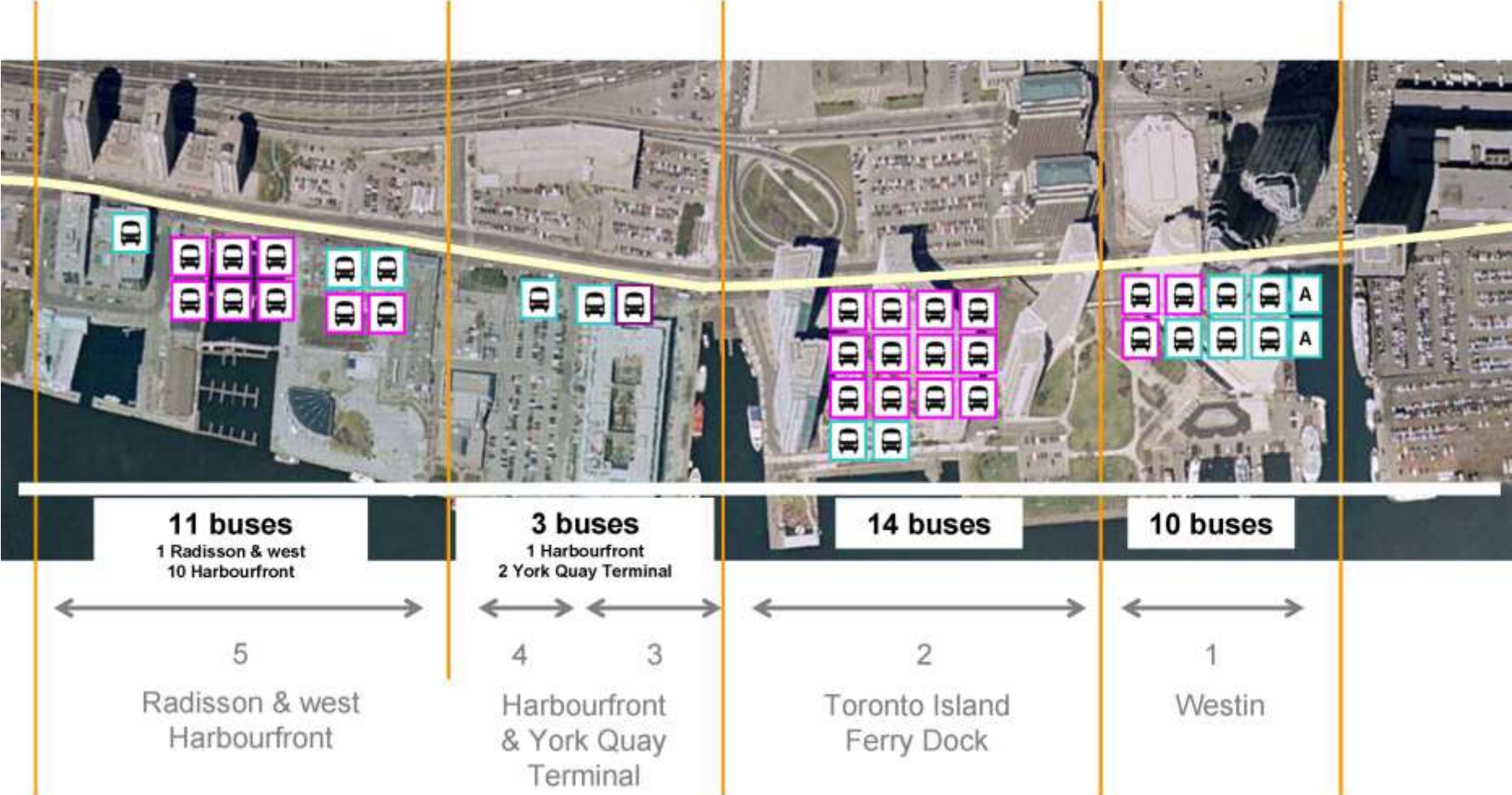


CURBSIDE MANAGEMENT

Mapping

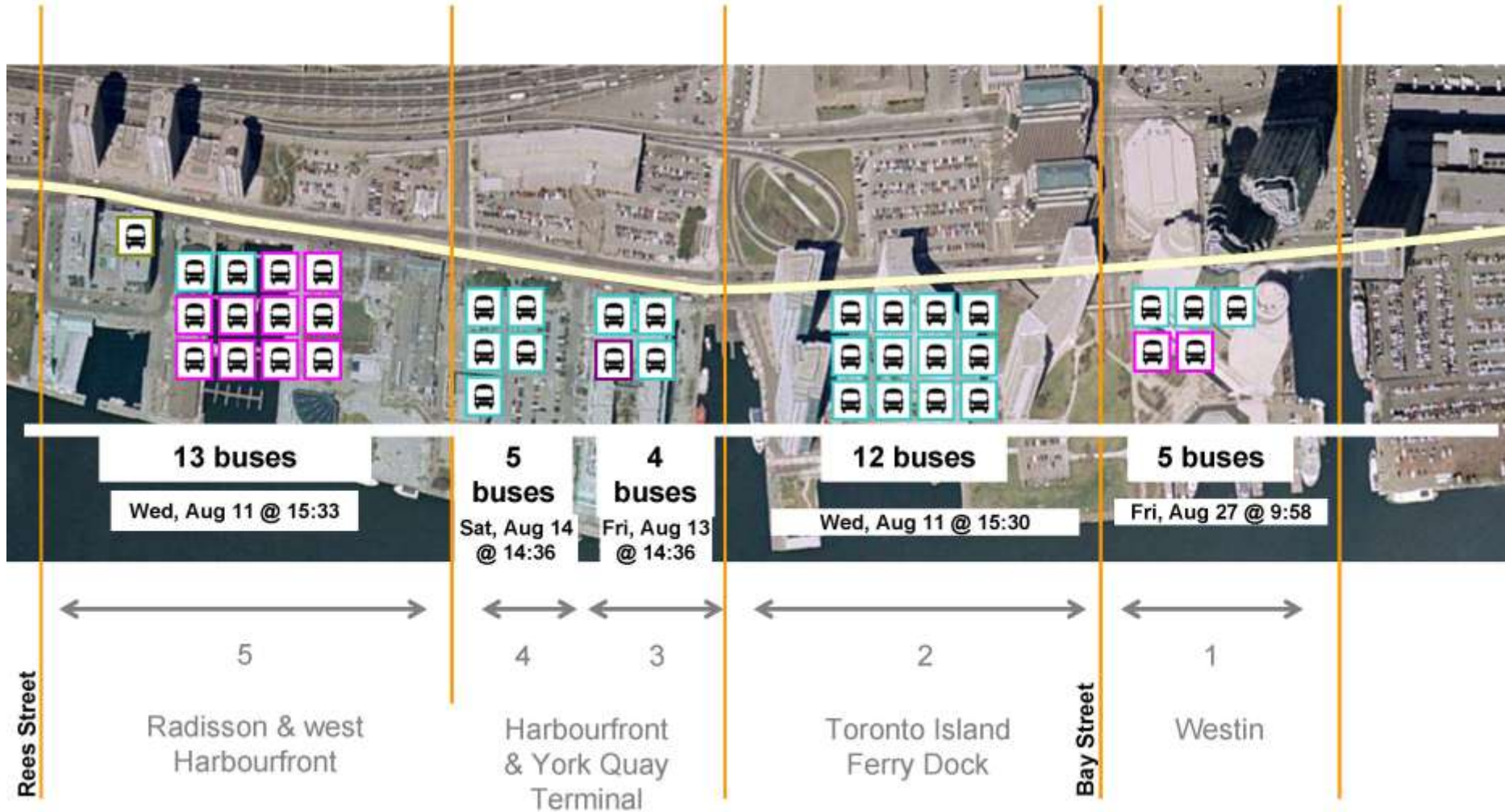
● ● ● bus activity mapping zones 1-5

Thursday, August 19, 2010 – peak time, 3:13 pm
summary findings...



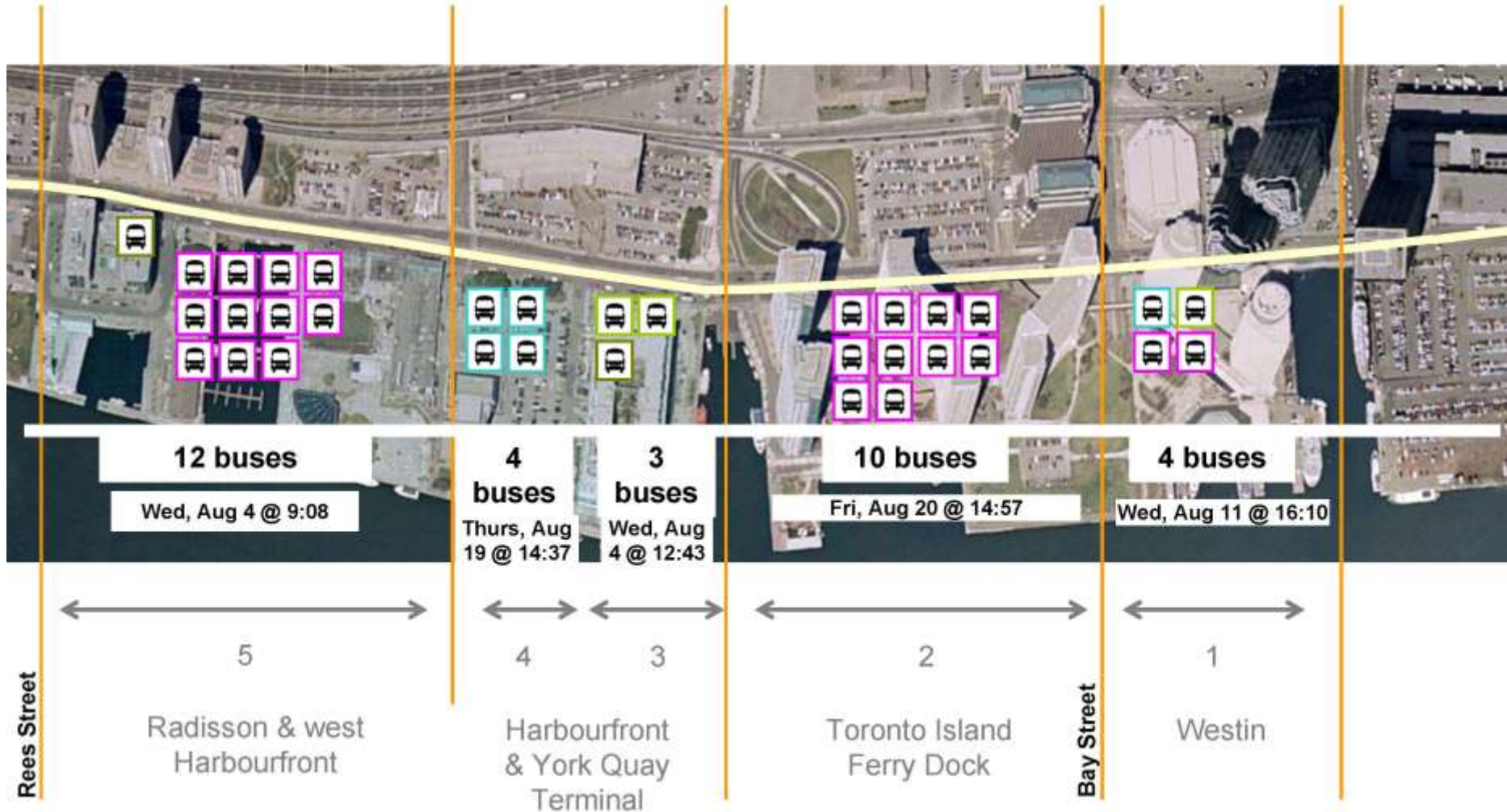
● ● ● peak snapshot of bus activity – by zone

focussed nodes of activity – 2nd level of peak activity



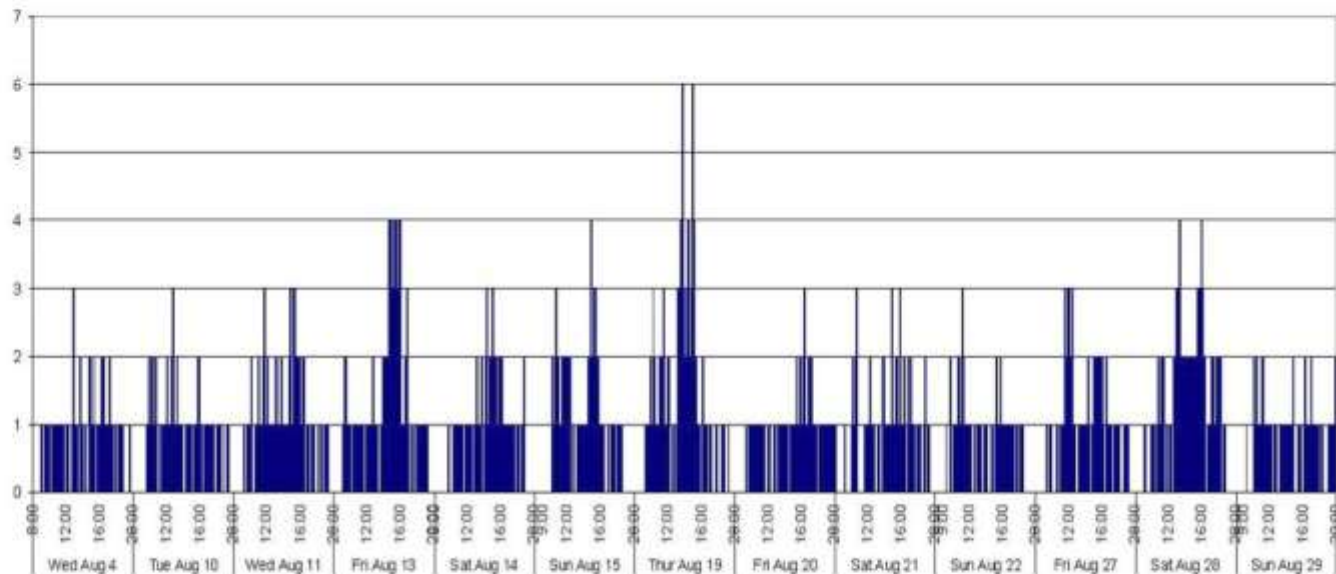
● ● ● peak snapshot of bus activity – by zone

focussed nodes of activity – 3rd level of peak activity

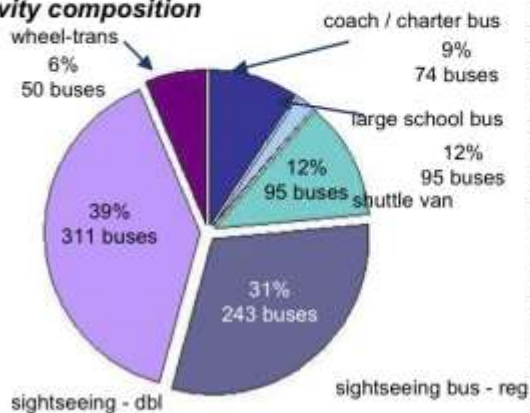


● ● ● zone 3 (York Quay Terminal) analysis

vehicle accumulation

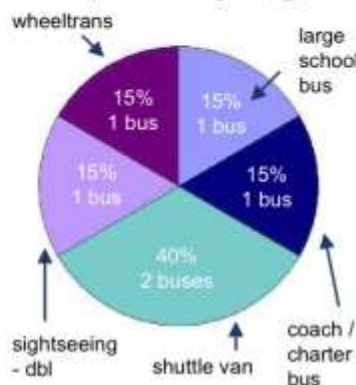


activity composition



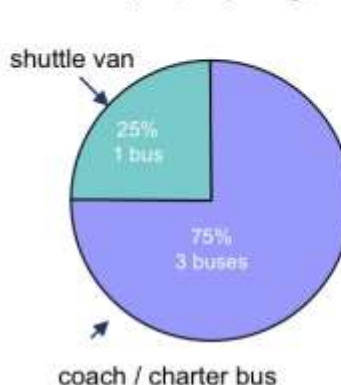
peak accumulation

6 buses, Thurs Aug 19 @ 13:43



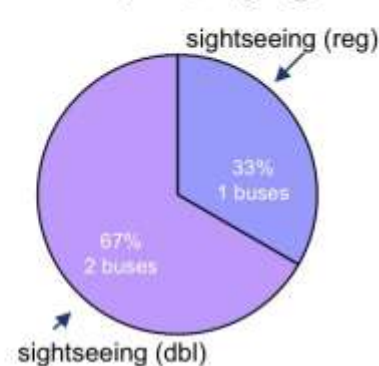
2nd peak accumulation

4 buses, Fri, Aug 13 @ 14:36



3rd peak accumulation

3 buses, Wed, Aug 4 @ 12:43



● ● ● zone 3 (York Quay Terminal) analysis

Vehicle Type	Coach / Charter	Large School Bus	Small School Bus	Shuttle Van	Sightseeing Bus - Regular	Sightseeing Double-Decker bus	Wheel Trans	Total
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Peak Accumulation

min	0:01	0:01	0:00	0:01	0:01	0:01	0:01	0:01
max	2:11	0:23	0:00	2:06	1:19	0:08	0:22	2:11
85th	0:57	0:14	0:00	0:03	0:05	0:03	0:09	0:05
95th	1:23	0:18	0:00	0:06	0:08	0:05	0:14	0:18
avg	0:25	0:06	0:00	0:03	0:03	0:02	0:04	0:05

790

observations related to York / Queens Quay bus stop

6 / 2 / 1

max / 95th / 85th buses at peak

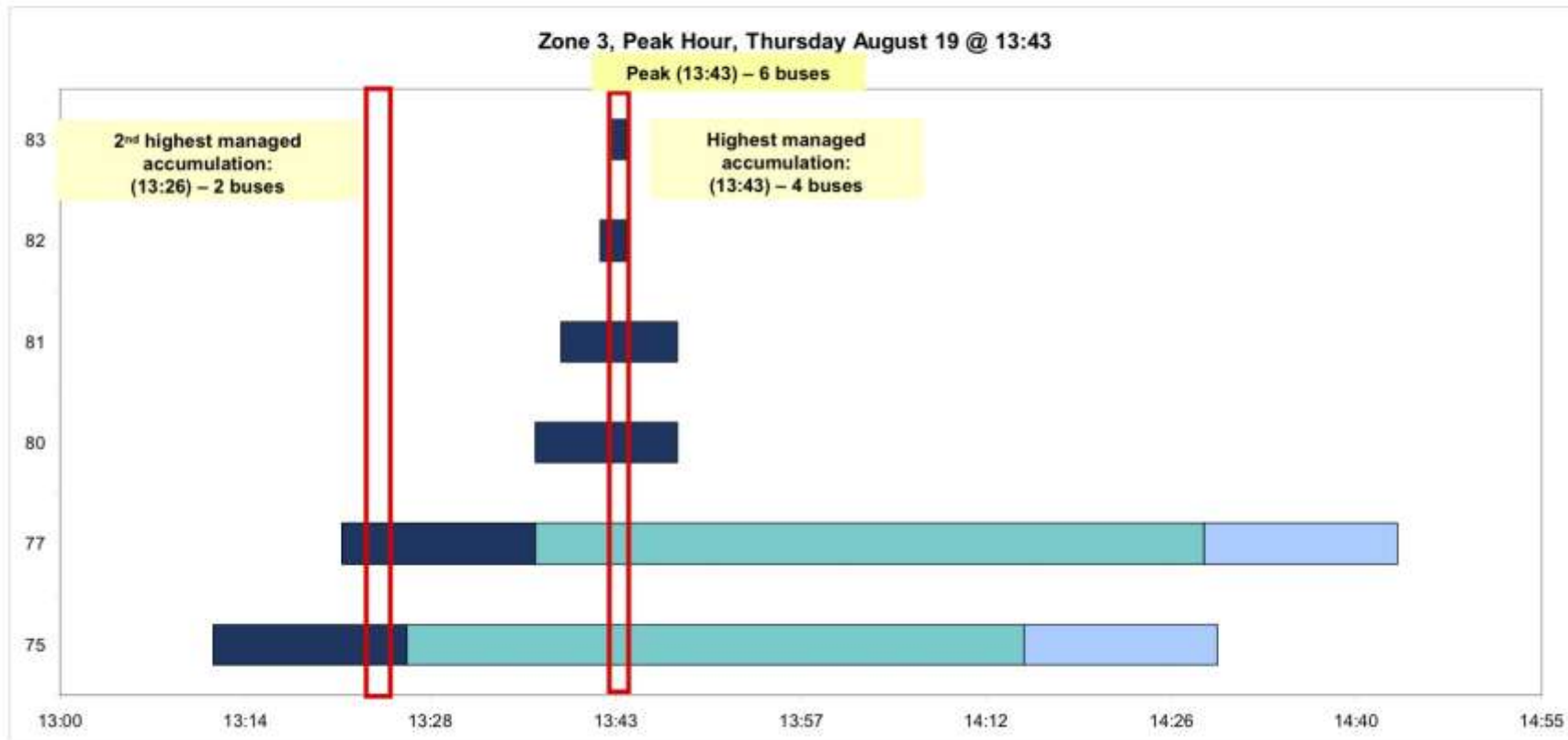
2.18 hrs / 18' / 5' / 5'

max / 95th / 85th / avg duration of stay

● ● ● zone 3 (York Quay Terminal) analysis

peak activity: 6 buses, Thurs Aug 19 @ 13:43

managed enforcement – 15 mins for pick-up/drop-off only



■ First 15 minutes
■ Duration
■ Last 15 minutes

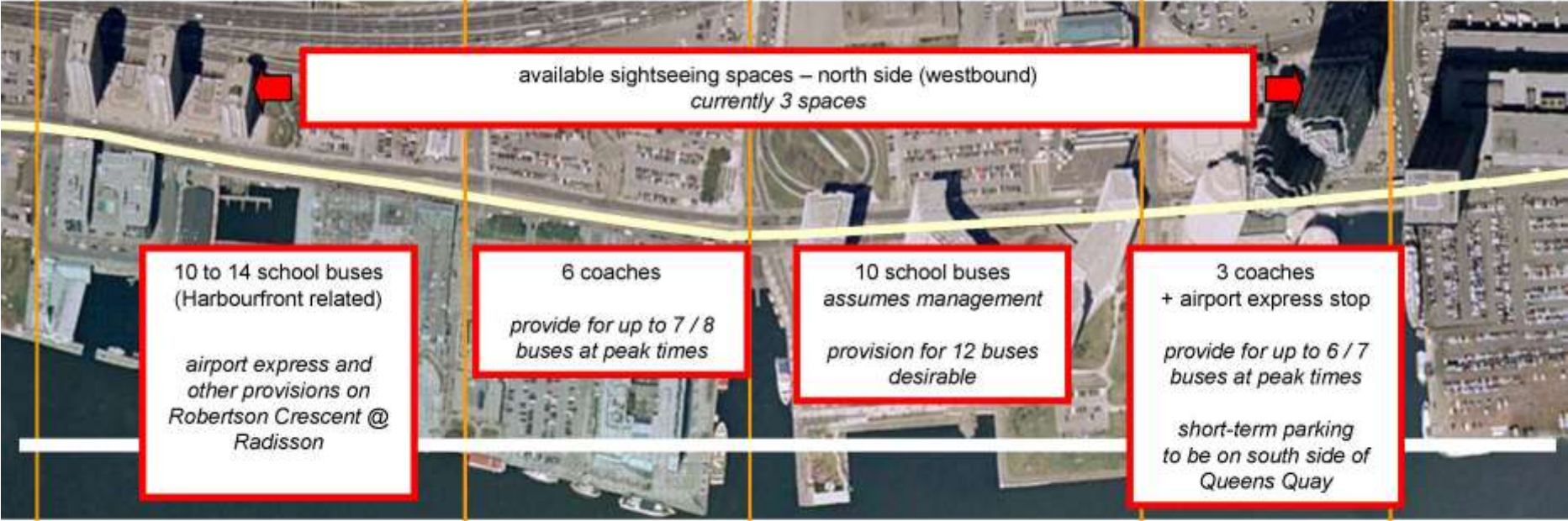
CURBSIDE MANAGEMENT

Targets

● ● ● Design Bus Parking Demand Targets

3 coaches
+ 1 airport express

Bus Parking Target by Zone



available sightseeing spaces – north side (westbound)
currently 3 spaces

10 to 14 school buses
(Harbourfront related)

airport express and
other provisions on
Robertson Crescent @
Radisson

6 coaches

provide for up to 7 / 8
buses at peak times

10 school buses
assumes management

provision for 12 buses
desirable

3 coaches
+ airport express stop

provide for up to 6 / 7
buses at peak times

short-term parking
to be on south side of
Queens Quay



5

Radisson & west
Harbourfront



4

3

Harbourfront
& York Quay
Terminal



2

Toronto Island
Ferry Dock

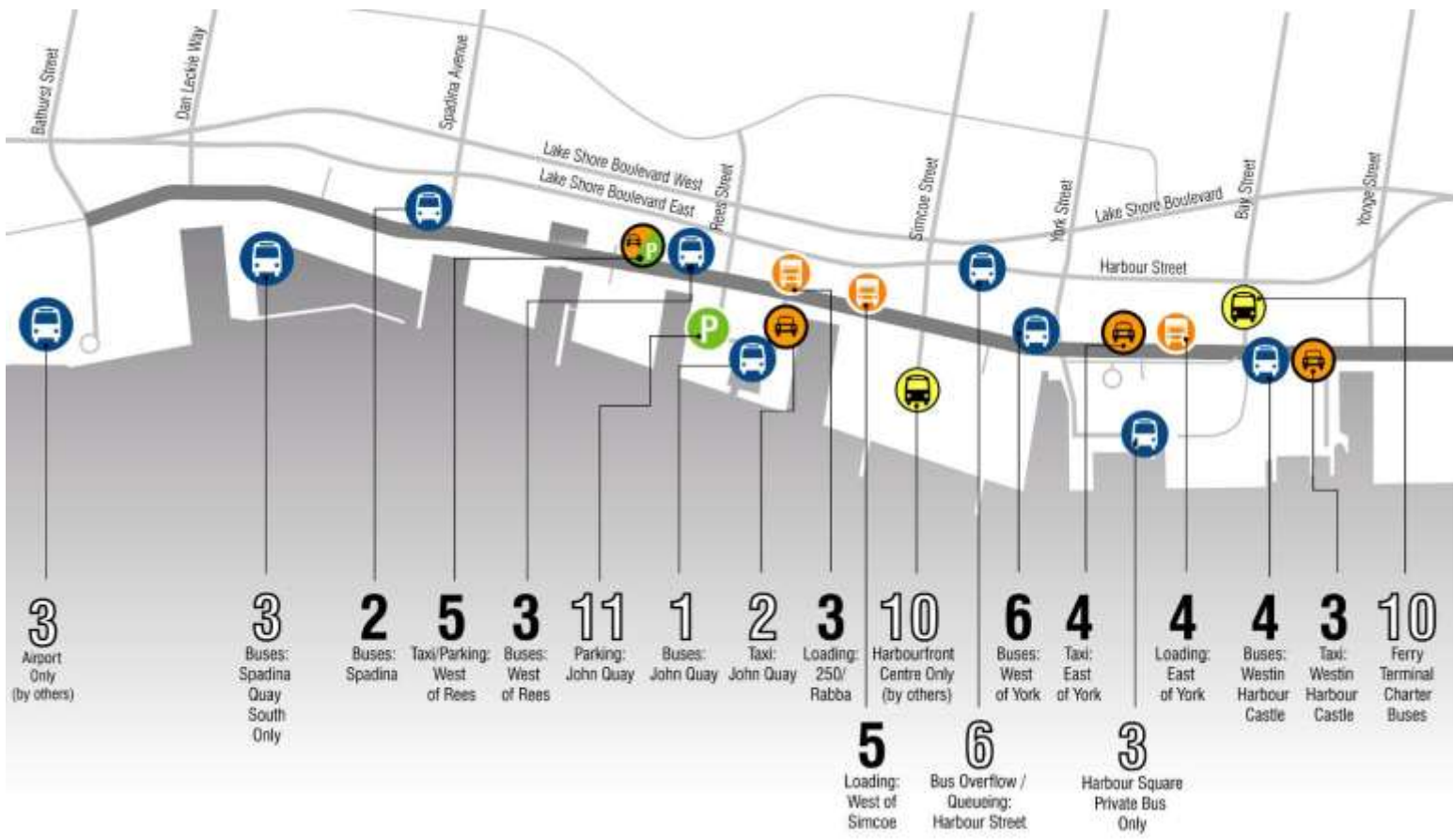


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Westin

CURBSIDE MANAGEMENT

Proposed curbside Space Allocation



- Bus Drop-Off/Pickup & Hop-On/Hop-Off
- School Bus Drop-Off/Pickup
- Taxi Stands
- On-Street Parking (John Quay only)
- Taxi/On-Street Parking (to be determined)
- Service Loading Zones
- On Queens Quay/Off Queens Quay

CURBSIDE MANAGEMENT

Consultation



CURBSIDE MANAGEMENT

Consultation



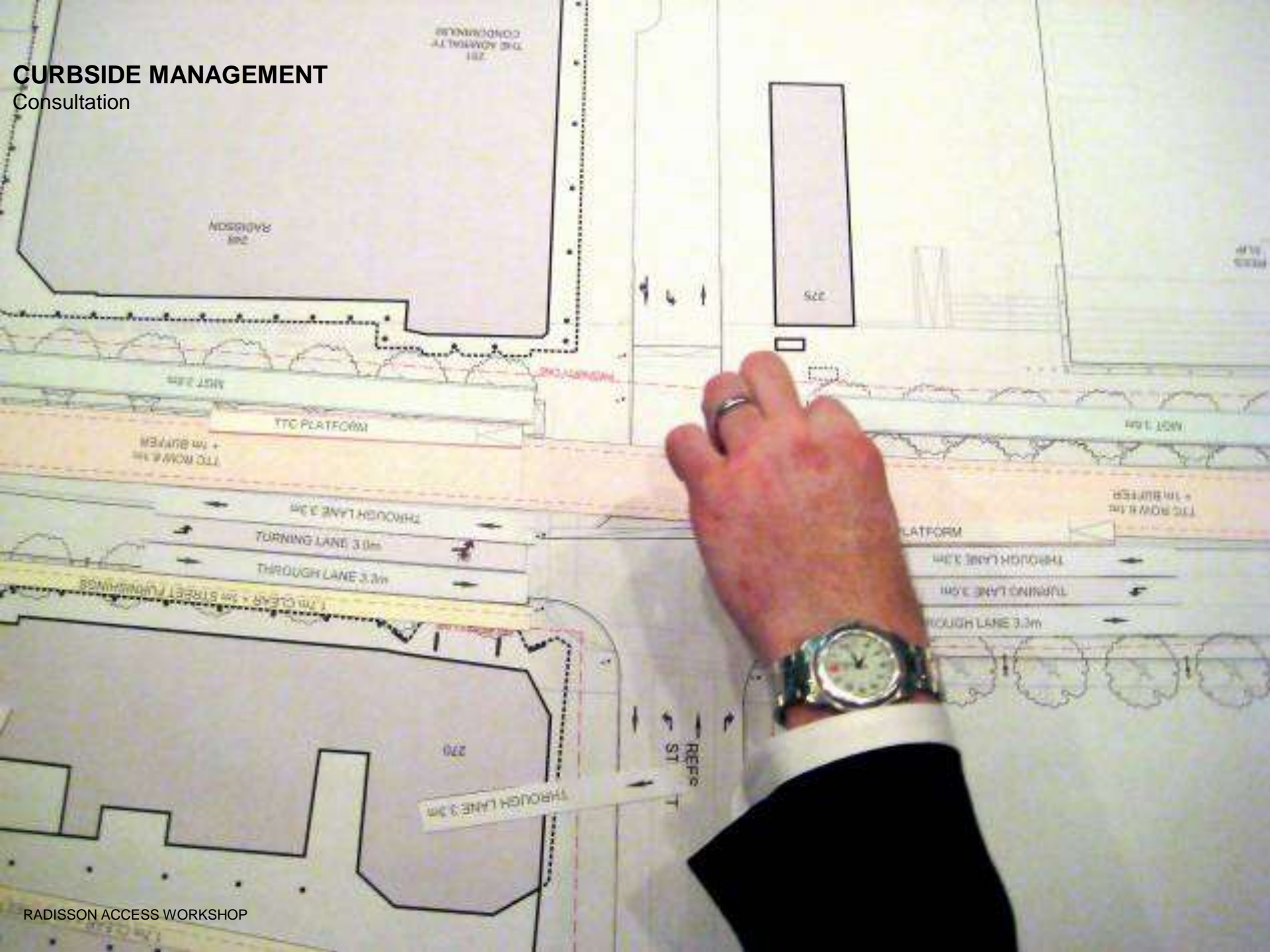
CURBSIDE MANAGEMENT

Consultation



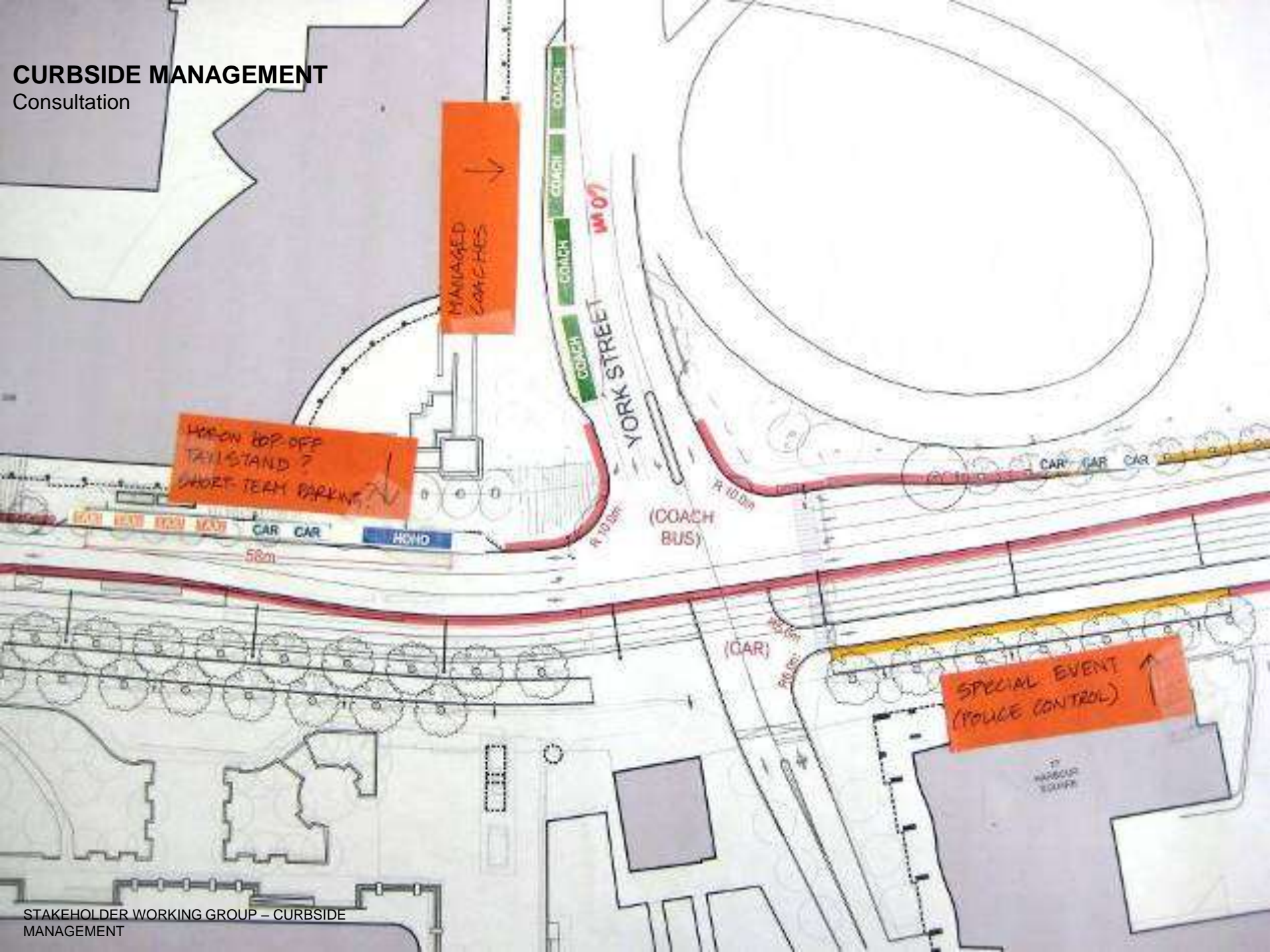
CURBSIDE MANAGEMENT

Consultation



CURBSIDE MANAGEMENT

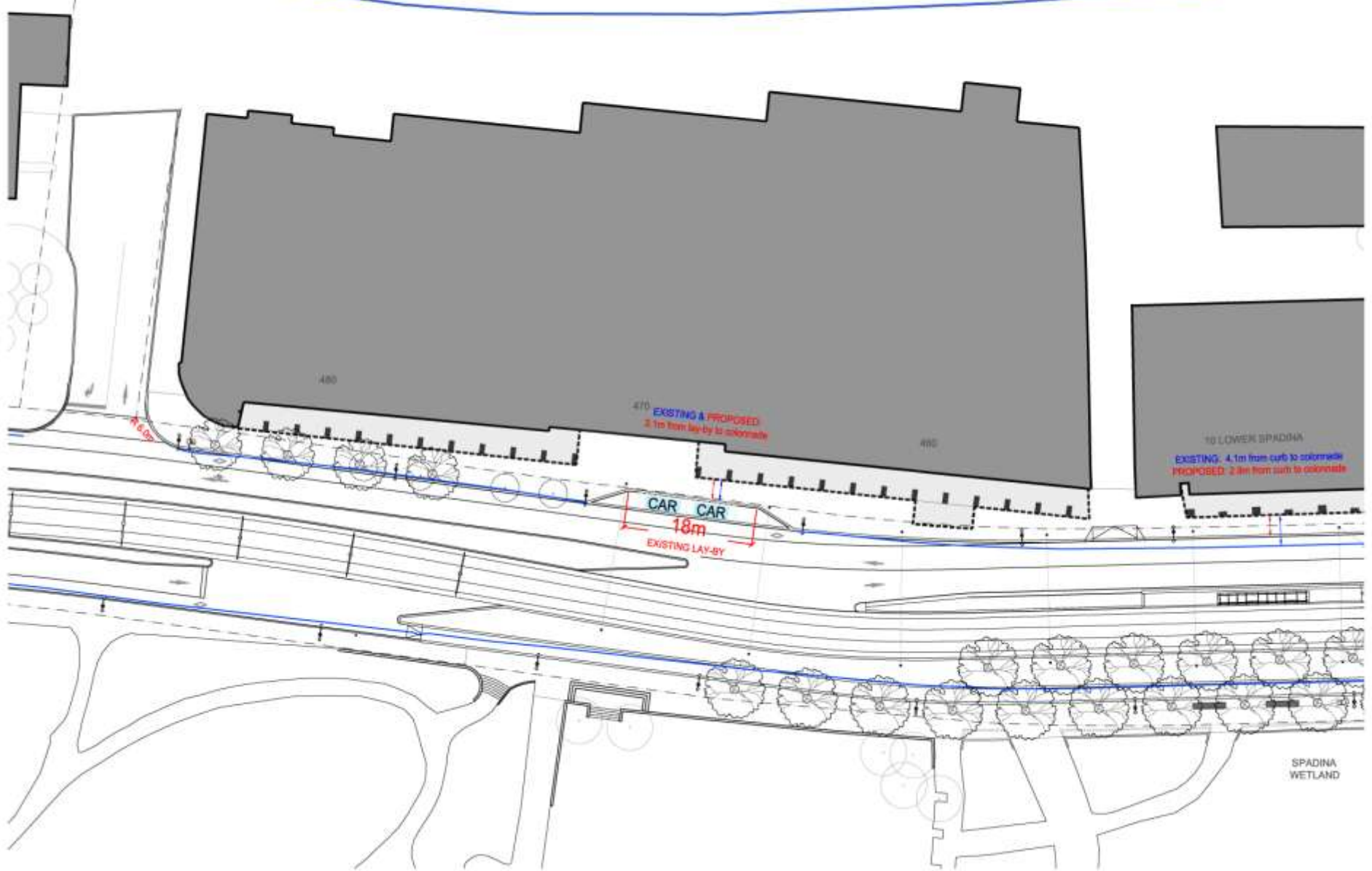
Consultation



CURBSIDE MANAGEMENT – HORIZONTAL ALIGNMENT

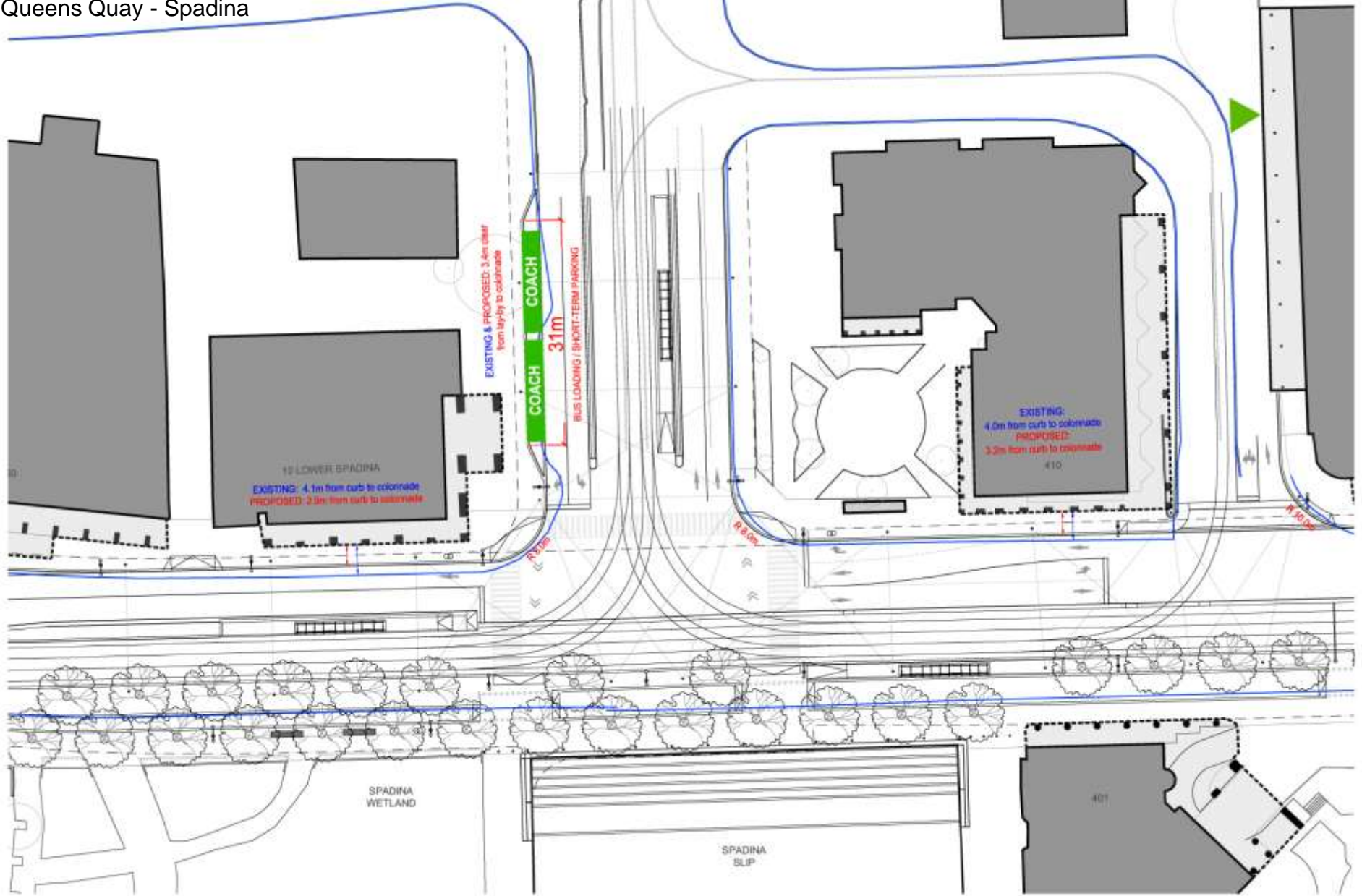
Queens Quay - YoYo-Ma

LAKESHORE BLVD



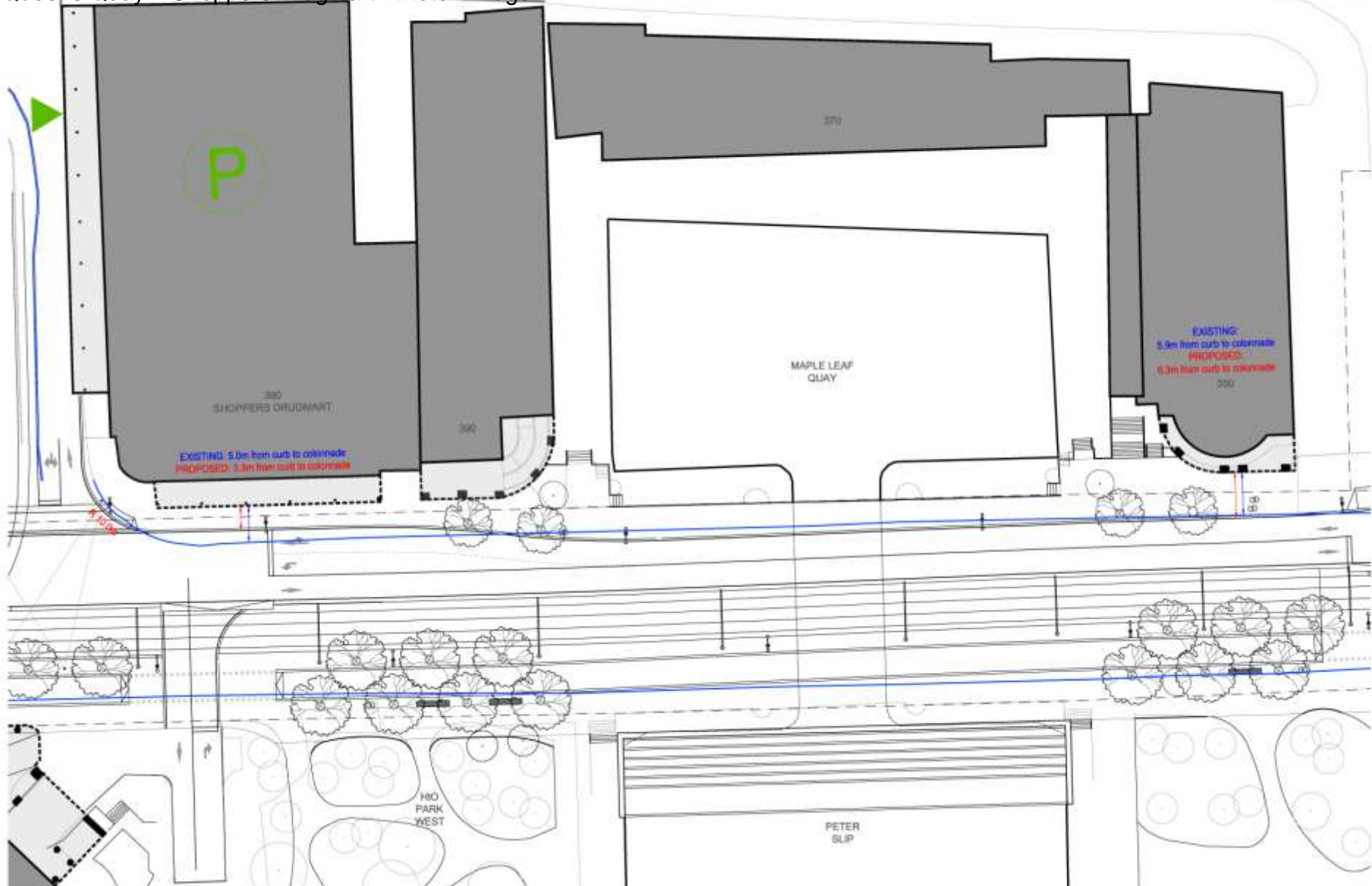
CURBSIDE MANAGEMENT – HORIZONTAL ALIGNMENT

Queens Quay - Spadina



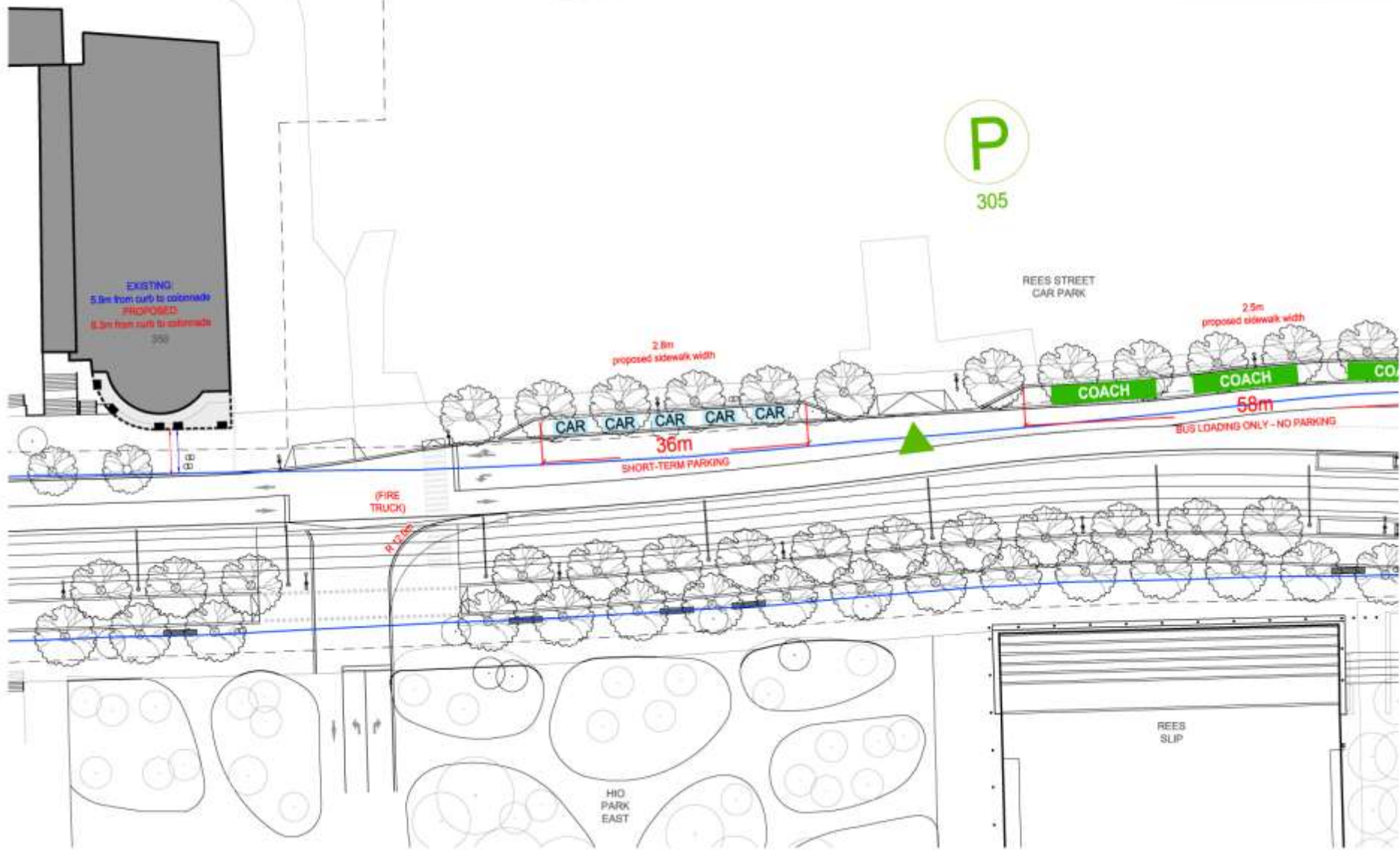
CURBSIDE MANAGEMENT – HORIZONTAL ALIGNMENT

Queens Quay – Shoppers Drugmart – Peter Bridge



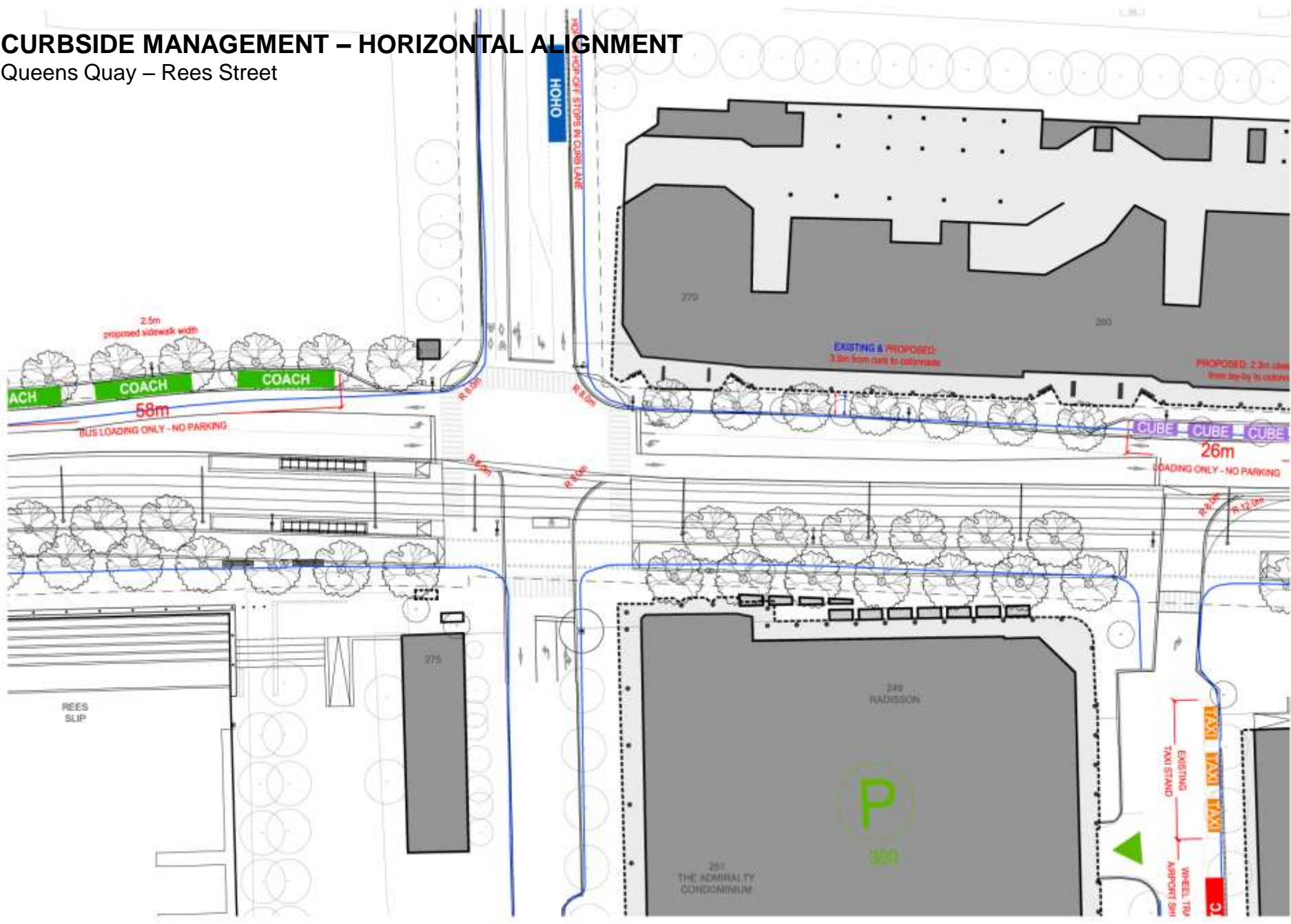
CURBSIDE MANAGEMENT – HORIZONTAL ALIGNMENT

Queens Quay 350



CURBSIDE MANAGEMENT – HORIZONTAL ALIGNMENT

Queens Quay – Rees Street



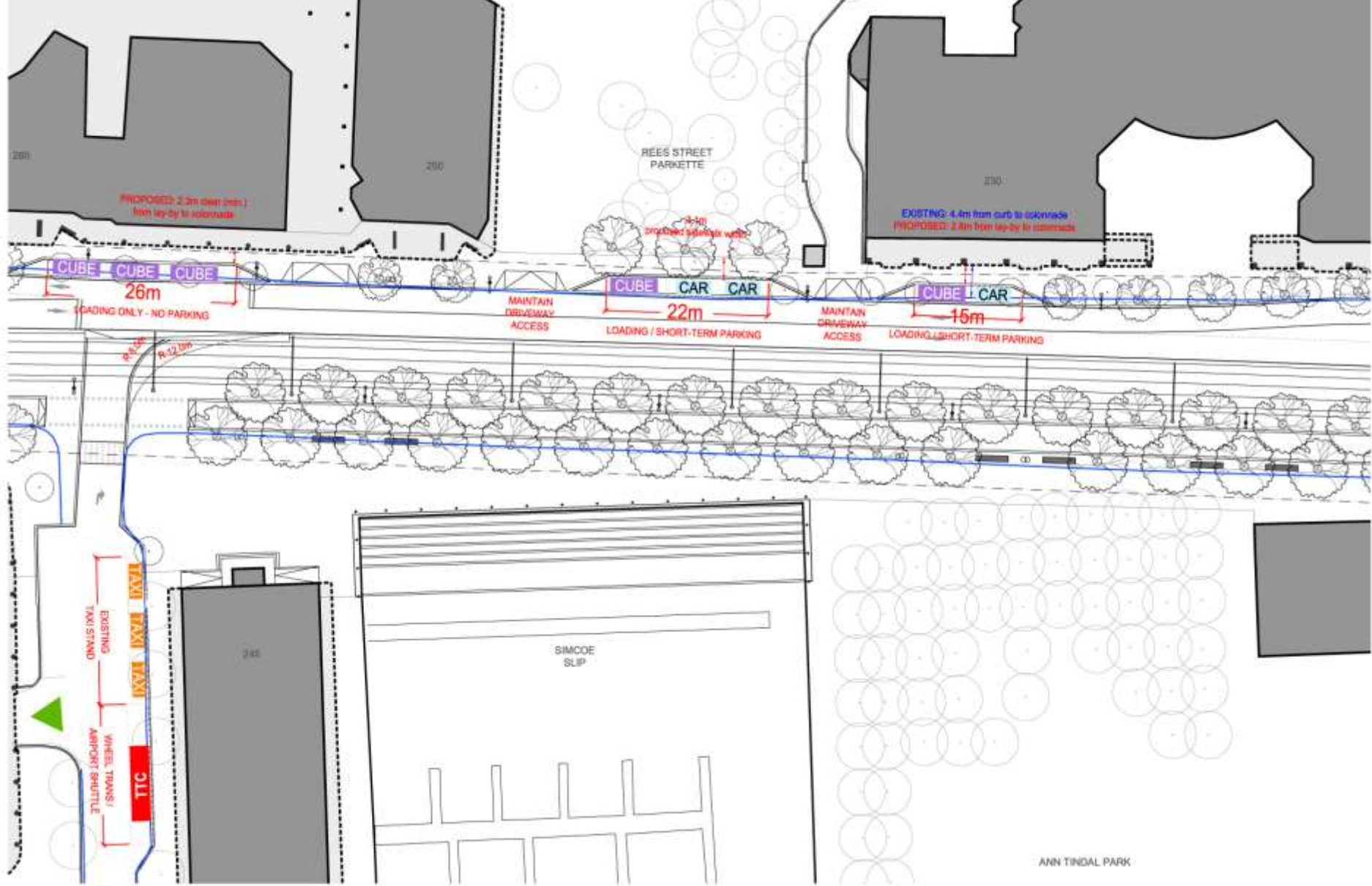
CURBSIDE MANAGEMENT – HORIZONTAL ALIGNMENT

Rees Street – Robertson Crescent



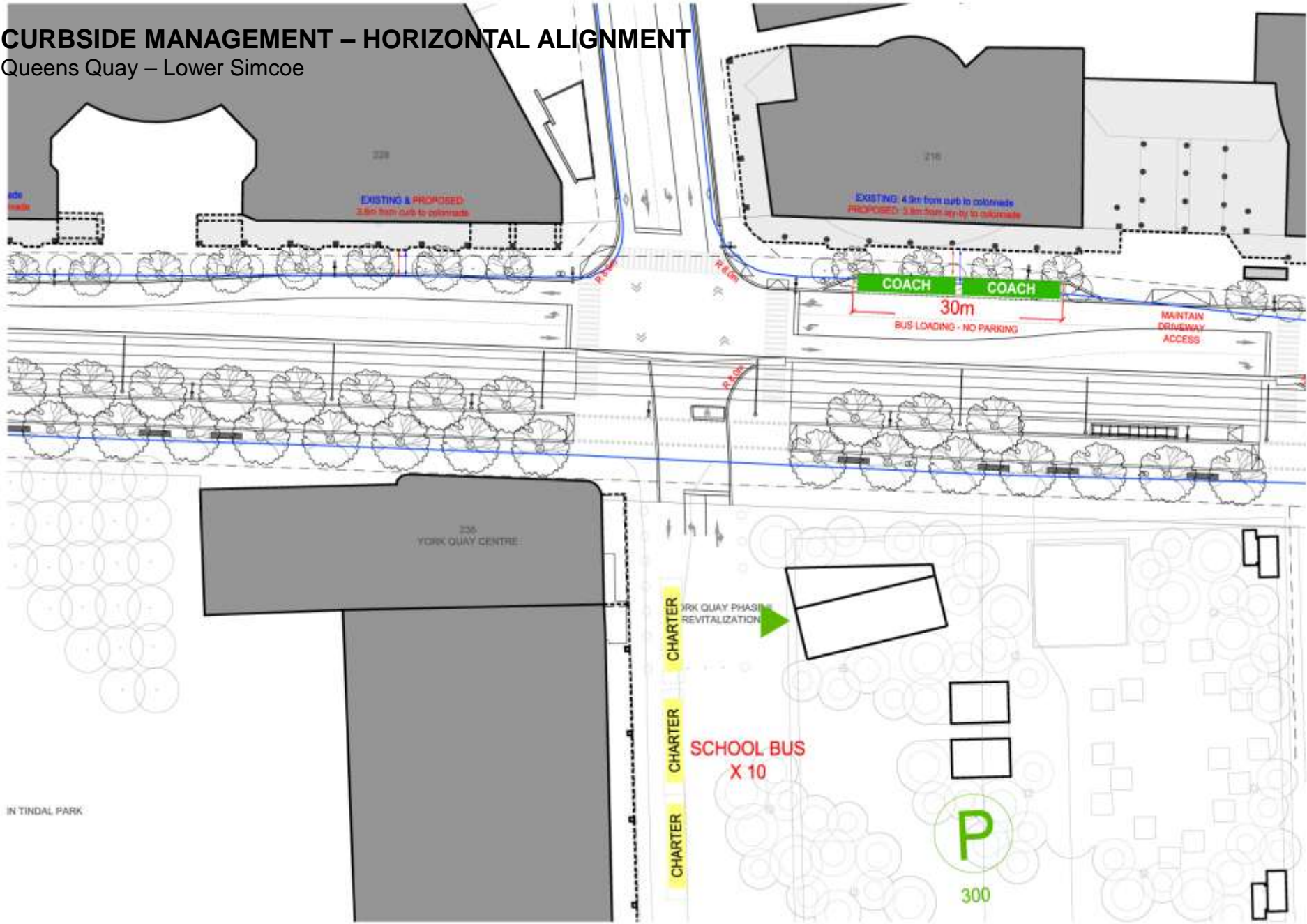
CURBSIDE MANAGEMENT – HORIZONTAL ALIGNMENT

Queens Quay – Simcoe wavedeck



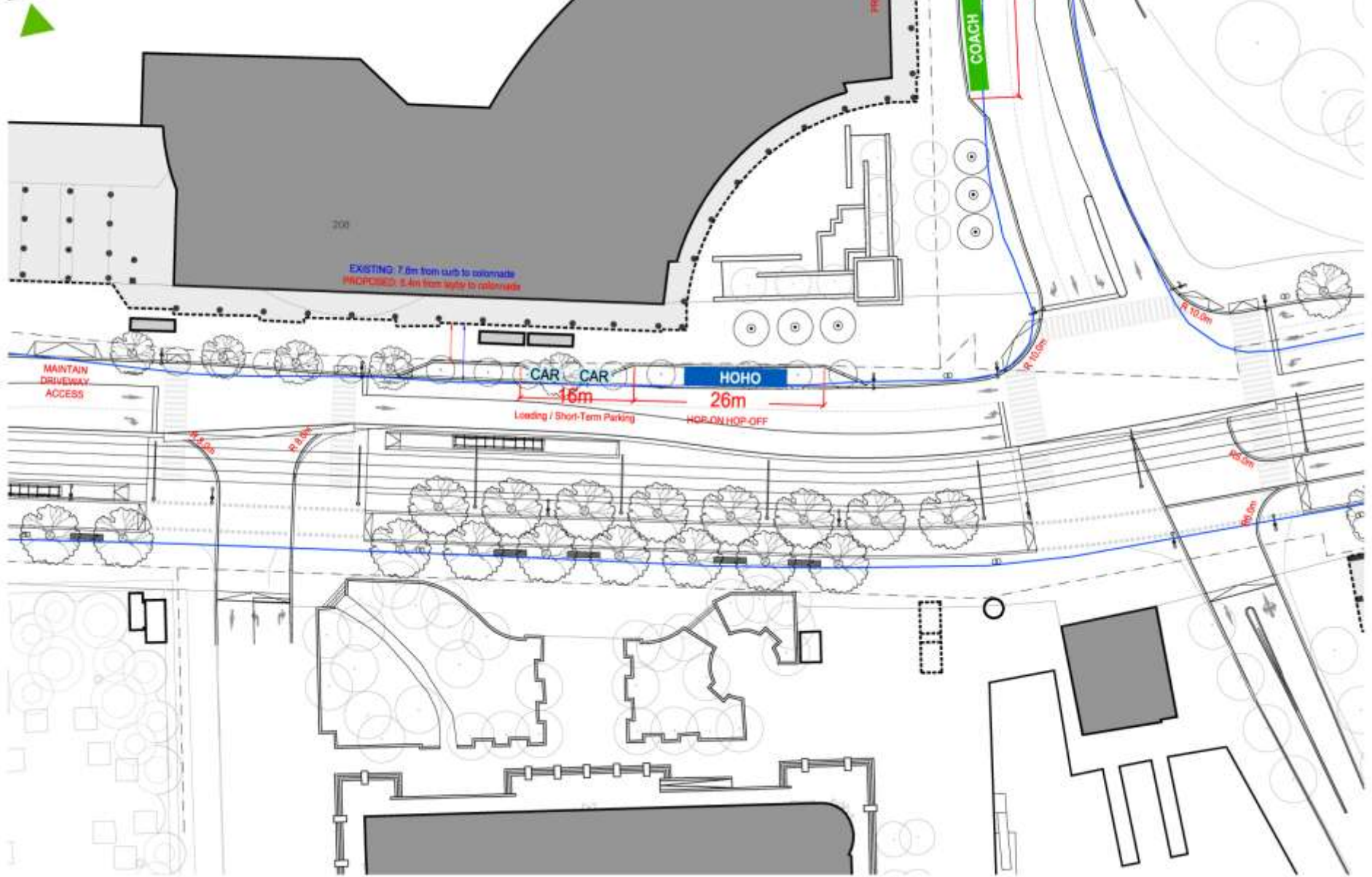
CURBSIDE MANAGEMENT – HORIZONTAL ALIGNMENT

Queens Quay – Lower Simcoe



CURBSIDE MANAGEMENT – HORIZONTAL ALIGNMENT

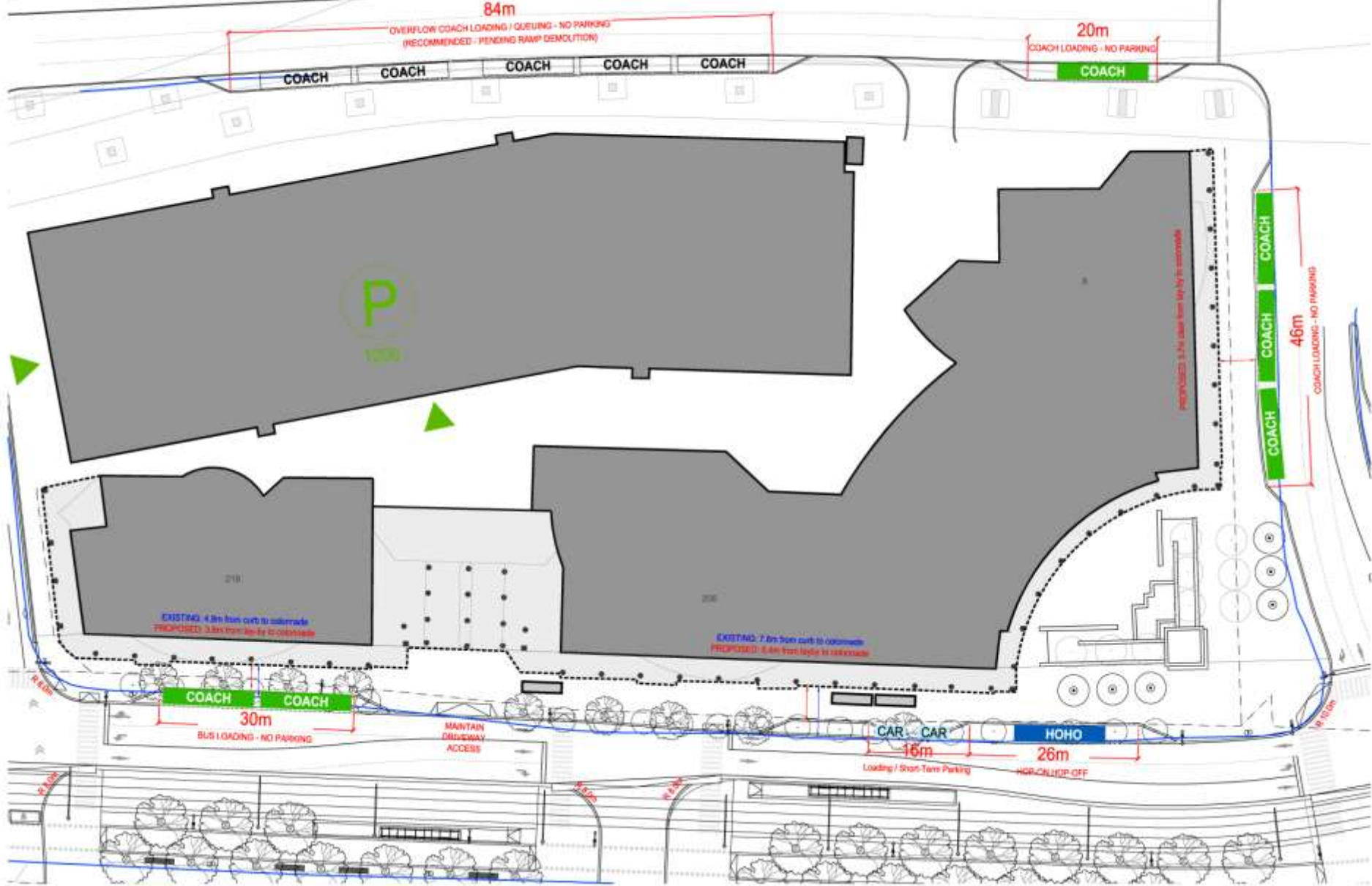
Queens Quay – York Street





CURBSIDE MANAGEMENT – HORIZONTAL ALIGNMENT

Overview York Street



CURBSIDE MANAGEMENT – HORIZONTAL ALIGNMENT

Queens Quay – Harbour Square

P

approx. 140 in surface lot
(350 with approved zoning for redevelopment)

POTENTIAL FOR ONE CAMP BUS AM-PM
WEEKDAYS FOR 8 WEEKS IN SUMMER

CHARTER

PARKING LOT

7.2m CLEAR
FROM LAY-BY TO PROPOSED BUILDING FACE

CAR CAR CAR CAR

25m

LOADING / SHORT-TERM PARKING

TAXI TAXI TAXI TAXI TAXI

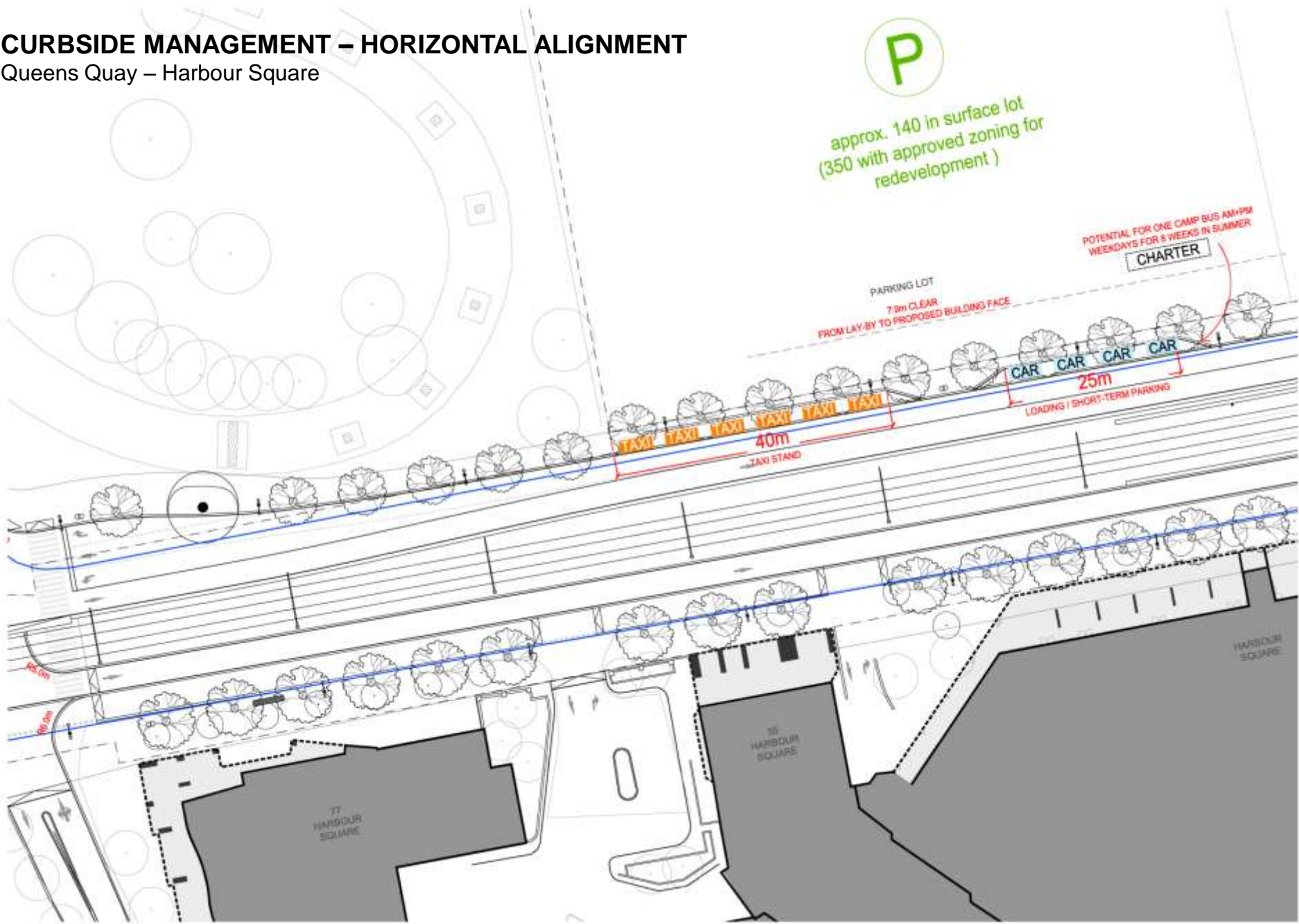
40m

TAXI STAND

77 HARBOUR SQUARE

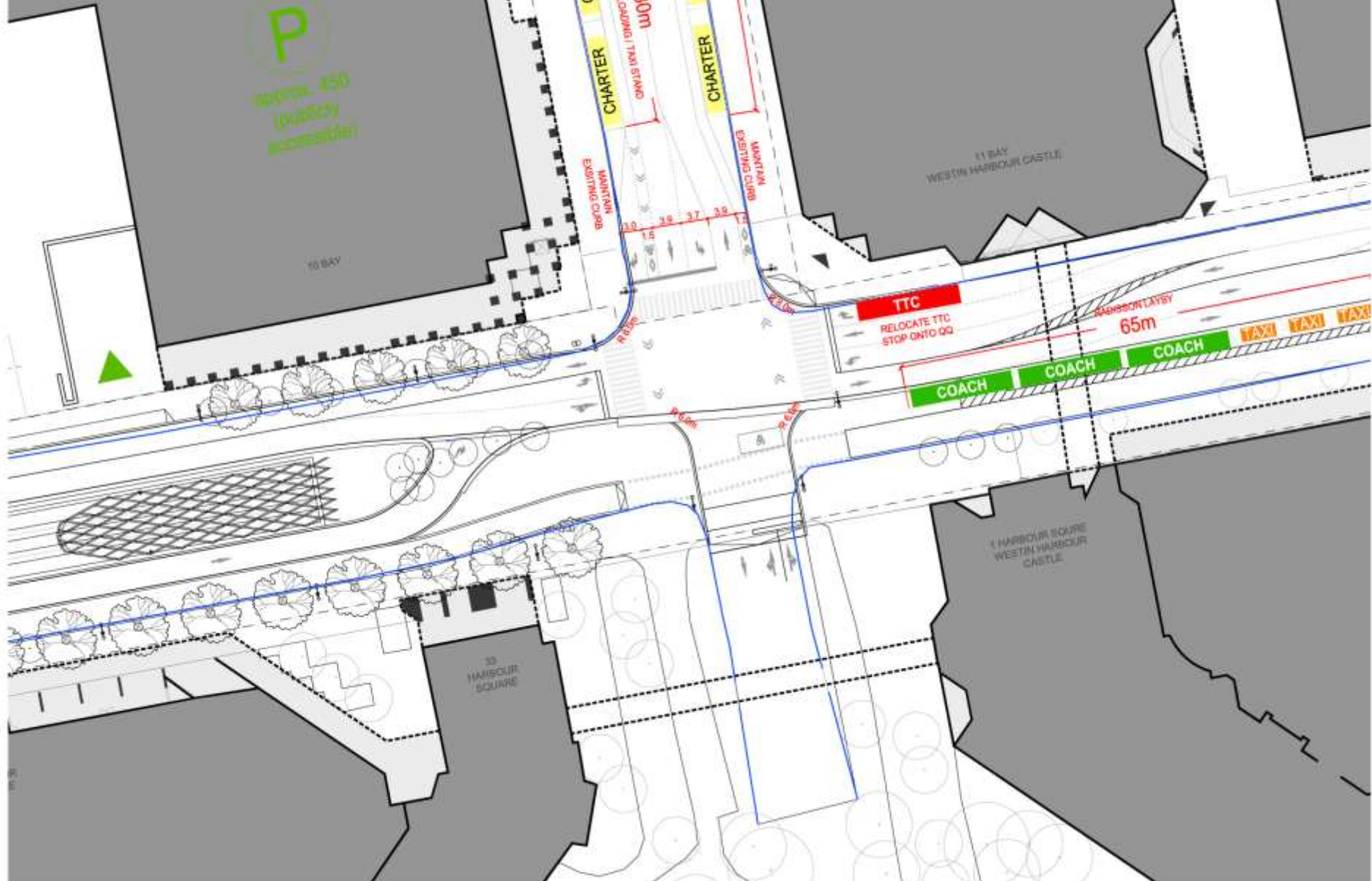
16 HARBOUR SQUARE

HARBOUR SQUARE



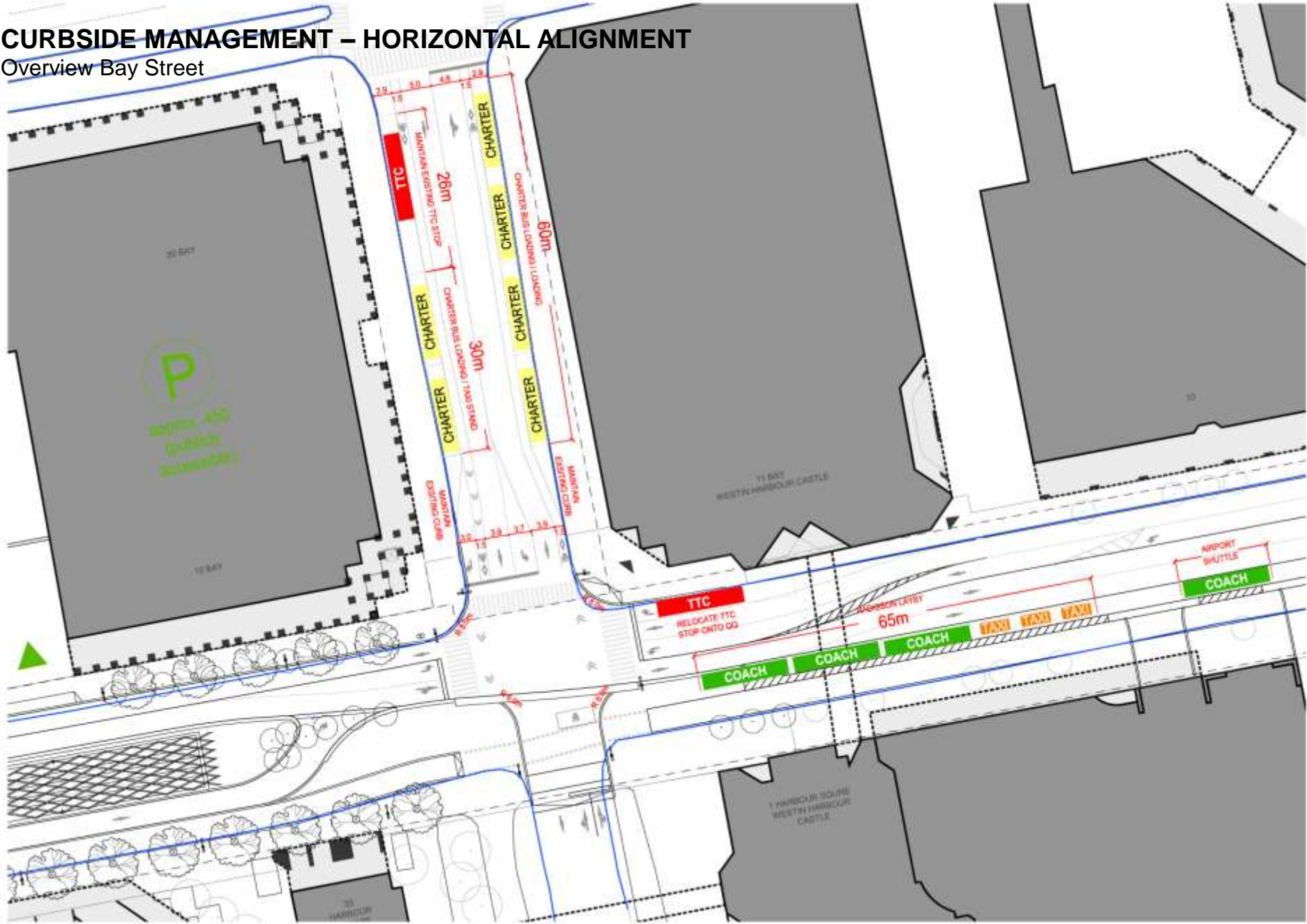
CURBSIDE MANAGEMENT – HORIZONTAL ALIGNMENT

Queens Quay – Bay Street



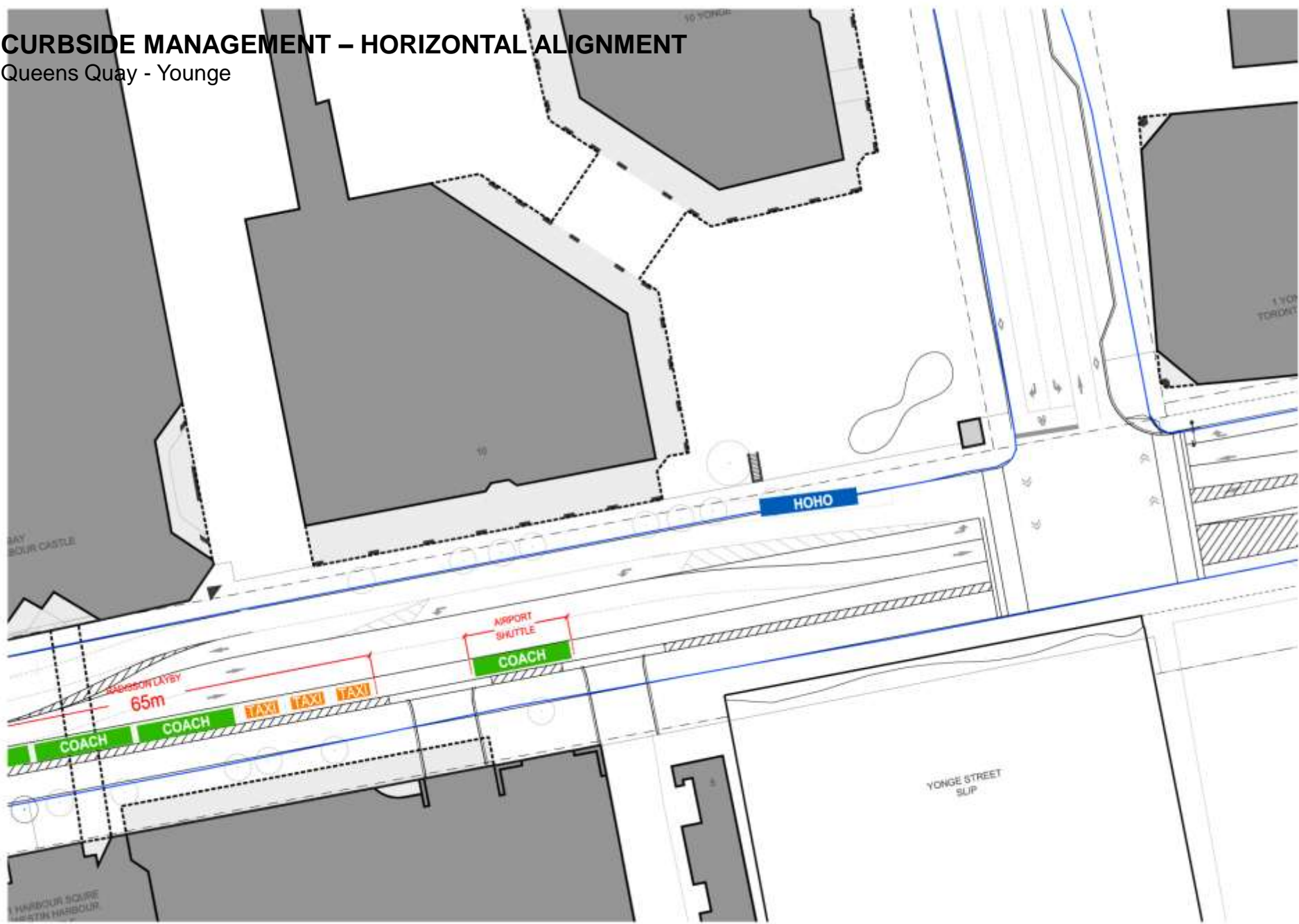
CURBSIDE MANAGEMENT – HORIZONTAL ALIGNMENT

Overview Bay Street



CURBSIDE MANAGEMENT – HORIZONTAL ALIGNMENT

Queens Quay - Yonge



TESTING THE DESIGN ELEMENTS

Test mock up 2010.08.24



