## TORONTO'S GREAT STREET THE LAKE SHORE BOULEVARD CORRIDOR

Competition to Develop Innovative Design Options for the Gardiner Expressway and Lake Shore Boulevard Reconfiguration Environmental Assessment

Waterfront Toronto + The City of Toronto
prepared by james Corner field operations


## THE EXISTING STTUATION



## THREE PRIMARY CHALLENGES

Based on our understanding the existing context of the Gardiner Expressway/Lakeshore
Boulevard Corridor, we see three primay challenges that must be resolved for the City of Toronto to take full advantage of its waterfront:

## TRAFFIC VOLUME

The single, biggest hurdle to bringing the Gardiner Expressway down is the question of what to do with the volume of traffic that currently fills its lanes and those of Lake Shore Boulevard. While we can suggest the possible redistribution of some traffic volume locally, ultimately the critical mass of reduction in vehicular movements in this corridor must be the result of a regional approach to transportation and transit that discourages private vehicle usage in the downtown core and privileges alternative means of transportation.

## NORTH-SOUTH CROSSINGS

Everyone knows that Toronto has an amazing amenity in its waterfront. The problem is actually accessing it from the city's existing neighborhoods. At present, it is unclear how one should properly - and safely - navigate from areas like St. Lawrence, the Distillery District, Corktown, or Leslieville down to the waterfront. Clarifying these connections and demarcating them in such a way that this movement is intuitive is essential to fully capitalizing the waterfront

## FROM BARRIER TO THRESHOLD

The Gardiner Expressway / Lake Shore Boulevard Corridor is not ever going to fully disappear. We can modify it and mitigate it, but ultimately this line will always be present disappear. We can modify it and mitigate it, but ultimately this line will always be present within the fabric of downtown Toronto. We believe the key is transforming the transect of the
roadway from that of a barrier that dissuades movement and occupancy of the waterfront, to an urban threshold that announces the gateway to the overall waterfront district.


TRAFFIC VOLUME


## TORONTO'S GREAT STREET

The removal of the Gardiner Expressway is major step toward re-connecting the city and neighborhoods of Toronto to the Lakefront. It is a major step toward returning the city to people, to the pedestrian and to civic spaces that citizens are proud of and can relate to in a positive way.

We propose a simple, grand, tree-lined street to replace the Gardiner. Generously sized allees of Oak, Maple, Gingko and Linden line the new 2.5 -mile long street, running from Yonge to Leslie Street. Welcoming and safe pedestrian intersections encourage linkage from the neighborhoods to the Lakefront.

THE TRAFFIC EQUATION: "EXPRESSWAY TO STREET"
Reducing the number of traffic lanes from the existing situation (8 on the Gardiner, plus 6 on Lake Shore Blvd, for a sum of 14, or even 16 with turning and exit lanes) to a sum of 8 street-lanes requires a radical shift in mindset. The new Grand Street is no longer a massive, free-flowing mobility corridor oriented solely to the automobile, but is now a humanized civic street where pedestrians and traffic both work together. The reduction in vehicular capacity is between $35 \%$ and $45 \%$, and will obviously need to be accommodated for regionally. This can be achieved by 1) increasing flow off the Don River Parkway at the Bloor Street and Eastern/Richmond exits; 2) improving alternative public transit systems; and 3) spreading the "peak" times. Taking down the Gardine must be understood as just one movement in the larger symphony of shifting the transportation paradigm of Greater Toronto. Reduced capacity and travel times will be compensated for through the creation of a more pedestrian-friendly, inter-connective, urban civic street that improves the quality of life for residents, enhances property values and allows the city to leverage its biggest asset - the lakefront.

 IMPROVED DEV F O RJJF FRONTAGES

## THE EXPERIENCE OF THE SITUATION TODA

Mr. Chakrabarti, Daily Commuter (personal car)
"Driving south along the Don Valley in the morning is frustrating; travel speeds are slow and I feel like all the congestion leads people to drive super aggressively and unsafely."

Ms. Walker, Cyclist
"The corridor is definitely more of a barrier than it is an amenity for cyclists. The high levels of congestion and frequent ramps connecting to Lake Shore from the Gardiner and Don Valley make this a place I go out of my way to avoid."

Mr and Mrs. Hu, Residents:
"The area feels like it has potential to be a great waterfront; the only problems being everything except for the water. We've lived here for 15 years and still have a hard time figuring out how to get down to the Lake safely."

THE EXPERIENCE OF THE PROPOSED NEW GRAND STREET
Ms. Moddrell, Daily Commuter (personal car)
"The trip along Lake Shore Boulevard has certainly become much more enjoyable My travel time may be a few minutes longer, but the reduced congestion and improved clarity of circulation have made a world of difference."

Mr. and Mrs. Massoud, Cyclists.
We don't fear for our lives anymore! The super-wide median with a fully protected bicycle path is a great amenity for cyclists."

Mr. and Mrs. Lee, Residents:
"The new Lake Shore Boulevard creates a real sense of place. I could never have imagined living around here 10 years ago. The newly designed gateways along the north-south streets make getting down to the water completely intuitive"



## 1) THE GREAT STREET

Presently, a typical cross section of the Gardiner Expressway/Lake Shore Boulevard corridor is more than $80 \%$ asphalt or concrete surfacing and structure for cars, trucks, and buses, with less than $20 \%$ devoted to planting, sidewalks and/or the public realm.

The design of the new Great Street revises this ratio, devoting nearly $60 \%$ of the corridor to the public realm and/or planting and green-space. Sidewalks are widened from their typical existing $2-4 \mathrm{~m}$ dimension to a minimum of 6 m , allowing for generous shade tree planting, furnishing and signage. Local traffic is separated to the outside from thru traffic at the center, reducing vehicular speeds adjacent to pedestrian zones. An additional buffer between the public realm on the southern edge adjacent to development and the vehicular corridor is established by the 10 m wide "Lake Shore Boulevard Promenade" comprising devoted lanes for bicycles and pedestrians, as well as generous areas for planting and furnishing.

The area adjacent to the rail berm on the northern edge of the Boulevard varies in dimension over the length of the corridor. However, where feasible the berm is retrofitted with a sculptural, modular planting system that creates an iconic green wall running from the Don River, west to Yonge Street. This Green Wall is envisaged as a tall constructed escarpment, with woodland lantings, stormwater terraces and vertical gardens. This strip, in combination with the promenade and the tree-planted median further enhances the overall greening of the Lake Shore Boulevard corridor.

## CONCRETE BARRIER (6OM)

VEGETATED RIBBON (6OM)

proposed corridor configuration



Today, Lake Shore Boulevard is a confusing ensemble of vehicular signage and over-scaled highway elements with few places to stop, sit and rest. The widening of the public realm and introduction of regularized pedestrian crossings will begin to alleviate much of this cacophony. Importantly, the use of bold paving, iconic tree planting, bespoke furnishing, transit shelters, bicycle racks, trash cans, bollards, lighting fixtures and signage will enhance the legibility and amenity of the corridor for social pedestrian uses.



## ILLUSTRATIVE PLAN (WEST)



## ILLUSTRATIVE PLAN (EAST)






PARLIAMENT STREET INTERSECTION AND CROSSING



## 2) N-S NEIGHBOURHOOD CONNECTIONS

The Gardiner is not the only barrier to pedestrian movement from the north, south to the waterfront; the GO Transit rail berm is an equally significant obstacle to waterfront access because of its limited number of crossings and their diminutive scale. In order to overcome these barriers to movement - both physical and perceptual - clear articulation of existing crossing points is necessary, as well as the introduction of new typologies of crossing.

We propose that each of the underpasses at Jarvis, Sherbourne, Parliament and Cherry are retrofitted with an architectural sleeve that announces the presence of the public access point; illuminates its volume; and demarcates that particular entry to the Waterfront District. These media sleeves are part of a larger streetscape strategy that extends the paving and furnishing of the Lake Shore Boulevard north into the existing neighborhoods of the City. Paired with a distinct planting regime and a unique urban floor, these north-south thoroughfares are recognized as the gateways from the neighborhoods to the Waterfront.

In addition to the existing crossing points, we also propose the introduction of three new typologies of crossing at strategic points along the length of the corridor. These crossings take the form of architectural objects and include large-scale signage; iconic pedestrian bridges; and at Cherry Street, a new 21st century Ponte Vecchio - a fully programmed mixed-use cultural building that links the Distillery District directly with the Lower Don Lands development.

gateway signage typology

"Ponte Vecchio" typology

underpass media sleeves




## 2) REALIGNMENT +

ENHANCED FRONTAGE

While generally the alignment of the proposed Lake Shore Boulevard follows that of the existing Gardiner Expressway, the one location where it has been modified significantly improves the overall development opportunity of the adjacent blocks. Rather than allowing the corridor to cut directly through the development of the Keating Channel Precinct - cutting off development from the water and isolating the portion adjacent to the rail yards - we shift the Lake Shore Boulevard corridor to the northern edge of the precinct adjacent to the line of the rail berm.

This move has two significant results: The first is that the two transportation corridors (rai and vehicular) are aligned and bundled, lessening their impact on adjacent development parcels. The second is that Keating Channel precinct is no longer cut in half by a major vehicular artery, and the entire length of the precinct has frontage on the Keating Channel ather than only $50 \%$ allowing for the 18 m minimum public right of way to be continued from Downtown all the way to mouth of the Don River. This move dramatically improves the overall development potential of the precinct, and consolidates the buildings into a coherent series of blocks.

eastern lake shore boulevard districts -
extend existing neighborhoods to the water




## SUBMISSION BOARDS



## MASTER PLAN SUMMARY



NOTE: This summary tablie only inclides detailed information for those blocks modified within the Keating Channel Precinct.
Base information for new blocks outside of the study area are included for reference only. Base information for new blocks outside of the
SUMMARY-AREA A (KEATING CHANNEL PRECINCT)

|  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{array}{\|l\|l\|} \hline \text { Block } \\ \text { Number } \end{array}$ | Block Destription | Block Type | ${ }^{\text {Site Area }}$ (Hectares) | Maximum Block Height (m) | Average <br> Block Height <br> (m) | Maximum <br> Buidining <br> Storevs | $\begin{aligned} & \text { (TGtal } \\ & \left(\text { TGA } \mathrm{m}^{2}\right) \end{aligned}$ | Office \% | $\begin{aligned} & \text { Office } \\ & \left(G F A \mathrm{~m}^{2}\right) \end{aligned}$ |
| a 1 | Mixed Use | Ds | 0.68 | 125 | 45 | 30 | 35,550 | 40\% | 14,220 |
| a2 | Mixed Use | Ds | 0.25 | 40 | 30 | 8 | 10.500 | 10\% | 1.050 |
| 23 | Mixed Use | Ds | 0.39 | 125 | 45 | 30 | 24,000 | 10\% | 2,400 |
| a4 | Mixed Use | Ds | 1.01 | 125 | 45 | 30 | 75,150 | 10\% | 7.515 |
| 25 | Mixed Use | Ds | 0.63 | 125 | 45 | 30 | 50,600 | 10\% | 5.060 |
| $a 6$ | Mixed Use | Ds | 0.51 | 125 | 45 | 30 | 42,000 | 10\% | 4.200 |
| a7 | Mixed Use | Ds | 0.85 | 125 | 45 | 30 | 40,300 | 40\% | 16,120 |
| a8 | Mixed Use | Ds | 0.71 | 40 | 30 | ${ }^{8}$ | 24,650 | 10\% | 2,465 |
| 29 | Mixed Use | Ds | 0.37 | 40 | 30 |  | 14,700 | 10\% | 1,470 |
| a10 | Mixed Use | Ds | 0.22 | 40 | 30 | 8 | 9,050 | 10\% | 905 |
| a11 | Mixed Use | Ds | 0.67 | 40 | 30 |  | 23,500 | 10\% | 2,350 |
| a12 | Mixed Use | Ds | 0.69 | 40 | 30 | 8 | 23,900 | 10\% | 2,390 |
| a13 | Mixed Use | Ds | 0.74 | 125 | 45 | 30 | 51,860 | 35\% | 18,151 |
| 214 | Interior Promenade | Pa | 0.10 |  |  |  |  |  |  |
| a15 | Interior Promenade | Pa | 0.28 |  |  |  |  |  |  |
| a16 | Interior Promenade | Pa | 0.30 |  |  |  |  |  |  |
| a17 | Waterfront Promenade | Pa | 0.57 |  |  |  |  |  |  |
| 118 | Waterfront Promenade | Pa | 0.58 |  |  |  |  |  |  |





SUMMARY - AREA E (EAST PORT LANDS)



