## MSF Site Selection

Thorncliffe Park Community Table

May 27, 2021





## Site Selection





### **Decision History** | Summary

July 2019	• Identify 'representative MSF site location' to assess potential cost, impacts, deliverability, and operations.*			
August 2019 to February 2020	<ul> <li>Site selection process: long list of sites (9 sites) ⇒ shortlist of sites (2 sites) ⇒ preferred site</li> <li>Evaluate alternative Thorncliffe alignments in parallel</li> </ul>			
February 2020	<ul> <li>Evaluation confirms decision to place the MSF at Wicksteed and Beth Nealson (Site 1)</li> <li>Alignment shifted north to follow the hydro corridor; Thorncliffe Station moved to west leg of Thorncliffe Park Drive and Overlea Blvd</li> </ul>			
Winter/Spring 2020	Advance design for preferred MSF site			
Spring/Summer 2020	<ul> <li>Following consultation with the City and with large employers in the area, Metrolinx/City/Province agreed that job losses would be too severe if Wicksteed site is used. Reached agreement to re-assess former long list of sites with a greater focus on potential impact on existing/planned employment</li> </ul>			
August 2020	• Review site selection process for sites on long list, developing cost, and selecting a new shortlist of sites			
September 2020	• Further refine shortlist to options 1 and 2, including hybrids of the two options			
Winter 2020/2021	Select a hybrid option consisting of sites 1 and 2			
April 2021	Present MSF location to the public			

<sup>\*</sup>Representative site considers the proposed site boundary, immediate surroundings and orientation, site access, proposed development, use and heigh of buildings, landscape, and site character.



### **Determining the MSF Study Area**

- Size and shape a single site that can accommodate train storage requirements now and into the future
- Track connection constructability, length, and cost of non-revenue access track
- Land use\* compatibility with existing and planned land uses (i.e., avoids impacts to planned residential use or large employment centres)
- Future transit riders avoid areas targeted for significant growth
- Community impacts/benefits
- Environmental impacts
- Property costs

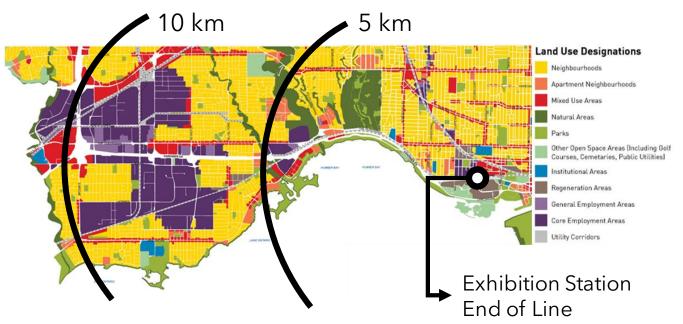


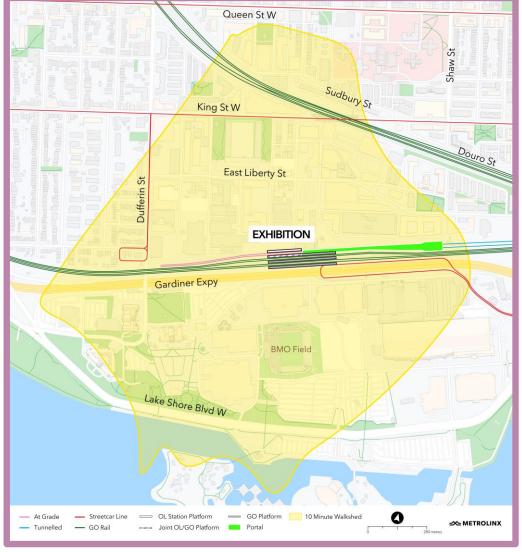
\*The Don Mills Crossing Secondary Plan, adopted by City Council in April 2019 - examine ways to focus and shape anticipated growth around the intersection of Don Mills Road and Eglinton Avenue East; the Laird in Focus Site and Area Specific Policy.



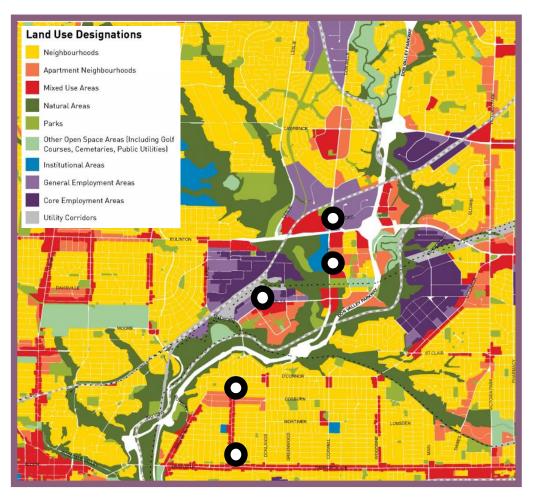
### Why not the West End?

- Exhibition Grounds was not advanced Canada's largest event and business destination
- Nearest suitable site is 5-10 km away, west of the Humber River - would require a connection track that is an extra 30% to 60% of mainline length; significant costs and construction challenges
- Already densely developed area



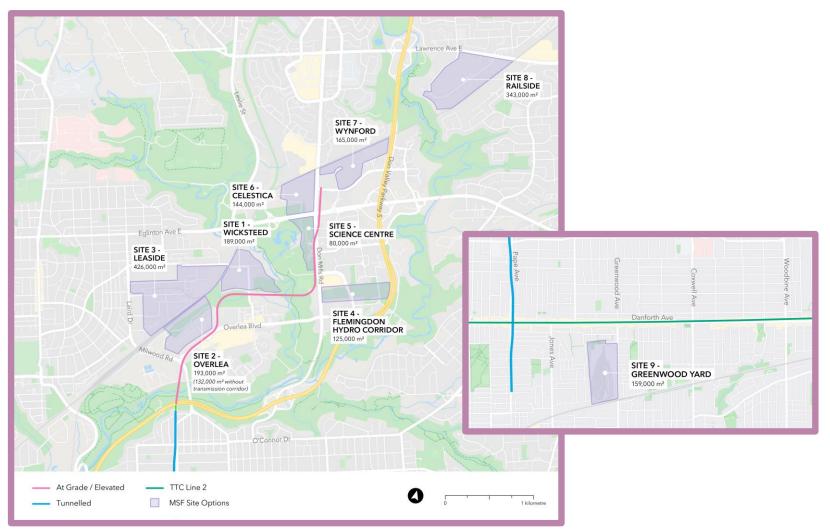


### Why the North End?



- Large tracts of land near the mainline zoned for employment and compatible with MSF
- Existing use is low density
- Adjacent large properties that can be easily assembled
- Opportunity to construct connection track on the surface or elevated, reducing costs

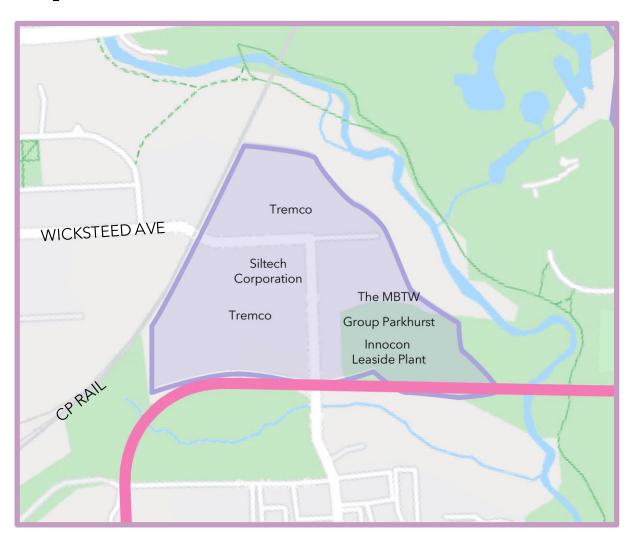
### Sites assessed for size and nearness to new subway line



#### Assumptions:

- MSF will require storage capacity for **44 trains** (4 - 5 train cars per train) to achieve a 90-second service frequency
- Projection for up to
   10 additional trains for future growth

### **Option 1 - Wicksteed**



Land Use Industrial / manufacturing
Employment 800 - 900 \*

#### **Pros**

- Near to Ontario Line alignment reduces construction, operating and maintenance costs
- Large enough for immediate and future train storage needs
- Site isolated and does not directly impact adjacent neighbourhoods, except for removal of road connection between Thorncliffe and Leaside

#### Cons

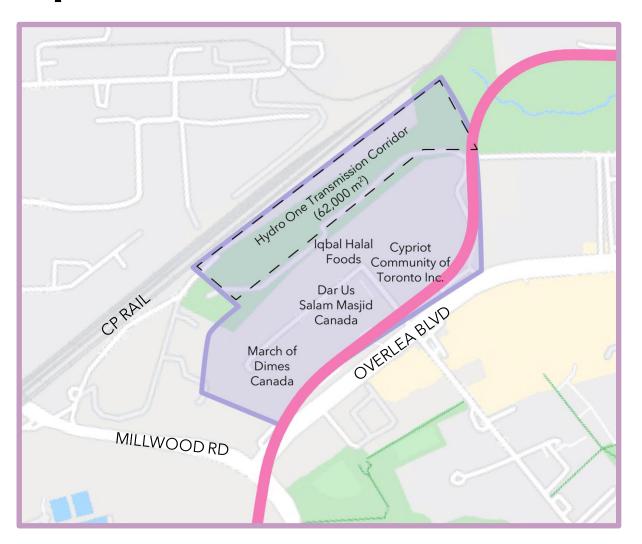
- Impacts several large industrial employers and conflicts with City's goal to establish area as a core employment area as identified in the City's Official Plan and Laird in Focus Site and Area Specific Policy
- Impact on TRCA environmentally sensitive areas
- Impact to goods movement corridor and rail crossing, as well as active transportation connection, Eglinton traffic

#### Result

Carried forward



### **Option 2 - Overlea Blvd.**



Land Use Commercial, light industrial, religious/institutional

Employment **700 - 1100 \*** 

#### **Pros**

- Large enough for immediate and future train storage needs
- Near to Ontario Line alignment reduces construction, operating and maintenance costs

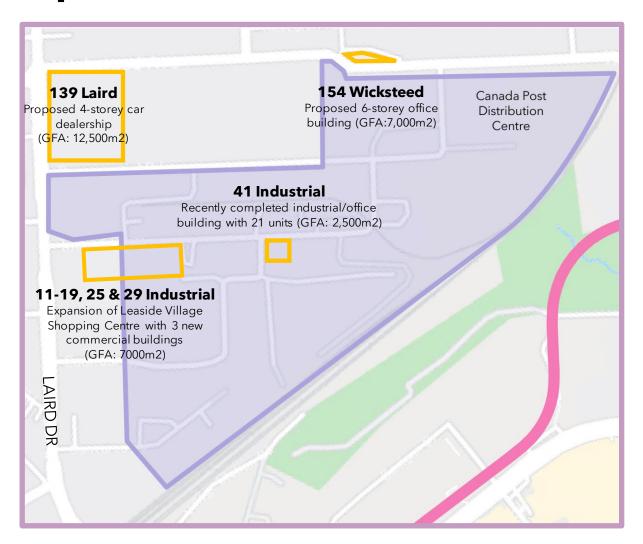
#### **Cons**

- Neighbourhood, commercial, institutional and industrial impacts
- Expansion opportunities may be limited by restrictions on Hydro Corridor lands
- May neutralize north side of Overlea Blvd for future commercial/residential development

#### Result

Carried forward

### **Option 3 - Leaside**



Land Use	Commercial, employment, adjacent to residential
Employment	400 - 1,850 *

#### **Pros**

- Large enough for immediate and future train storage needs
- Limited impact to adjacent neighbourhoods

#### Cons

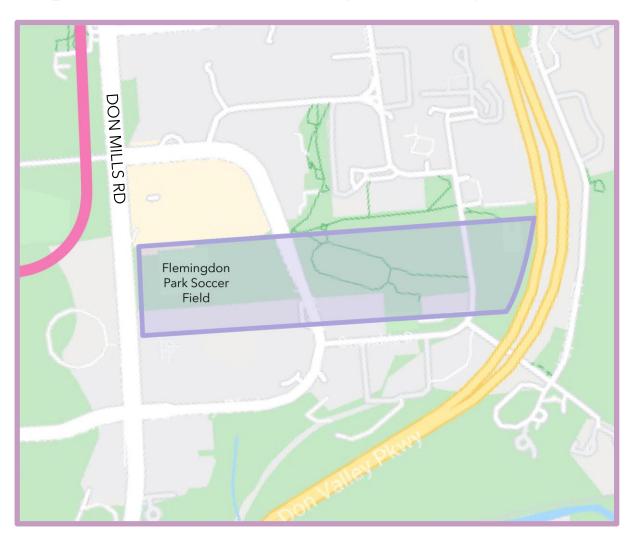
- Displaces existing commercial and employment uses and conflicts with City vision for area (*Laird in Focus*)
- Feasibility challenges crossing the CP rail corridor
- May impact City vision for future multi-use trail crossing
- Irregular shaped parcels may lead to less ideal layout for train operations
- Potential impacts to Canada Post distribution site

#### Result

Carried forward



### **Option 4 - Flemingdon Hydro Corridor**



Land Use	Parks / Hydro-One corridor
Employment	0

#### **Pros**

- Near to Ontario Line alignment reduces construction, operating and maintenance costs
- Publicly owned lands

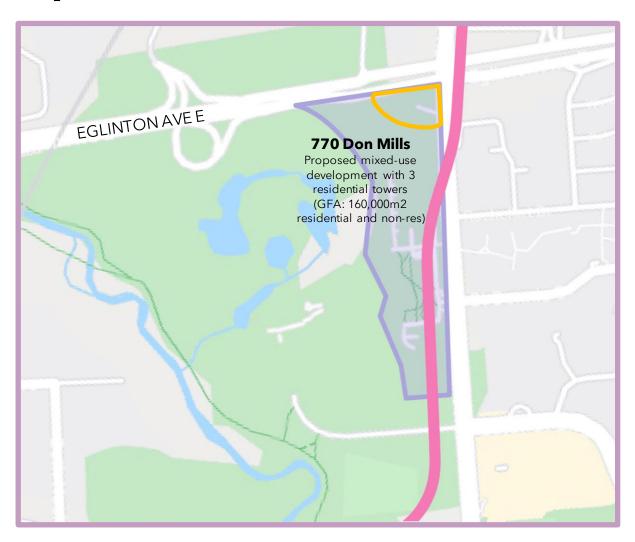
#### Cons

- Not large enough
- Removal of existing greenspace and parkland
- Significant impacts on Flemingdon Park community
- Would require extensive negotiation and potential relocation of Hydro One infrastructure

#### Result

Screened out

### **Option 5 - Science Centre**



Land Use	Institutional
Employment	350*

#### **Pros**

- Near to Ontario Line alignment reduces construction, operating and maintenance costs
- Publicly owned lands

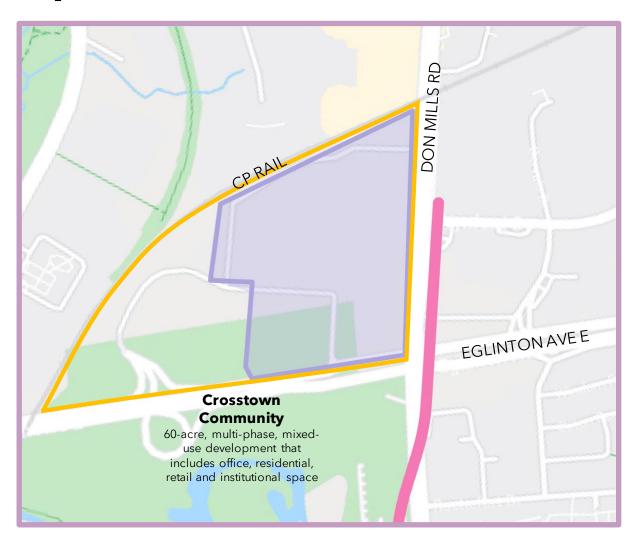
#### Cons

- Not large enough
- Impact to Science Centre
- Impacts to West Don Rivervalley
- May conflict with plans for affordable housing and school

#### Result

Screenedout

### **Option 6 - Celestica**



Land Use Large scale mixed-use development

Employment n/a (proposed development)

#### **Pros**

 Near to Ontario Line alignment - reduces construction, operating and maintenance costs

#### Cons

- Not large enough for future train storage needs
- Impact to area already approved for *Celestica/Crosstown Community* residential project (4,982 units, including a seniors facility), municipal community centre, and *Don Mills Crossing Secondary Plan*
- Neutralizes Don Mills-Eglinton development potential

#### **Result**

Screened out

### **Option 7 - Wynford**



Land Use	Low-density (under 3 storeys) commercial, institutional, office		
Employment	2,100*		

#### **Pros**

- Compatible with land use designation (employment)
- Separated from residential uses by CP rail and the DVP
- Near to Ontario Line

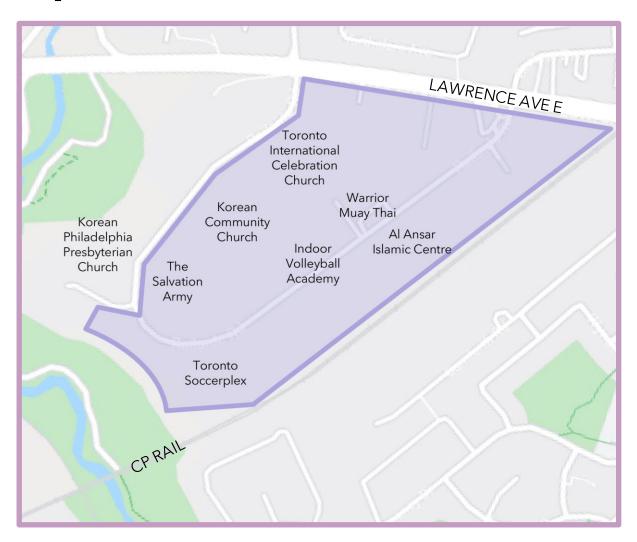
#### Cons

- Not large enough for train storage needs
- Impacts to cultural, educational, and heath care destinations
- Impacts to Canada Post distribution site requiring negotiation with Federal Government

#### Result

Screened out

### **Option 8 - Railside**



Land Use	Low-density manufacturing / industrial (distribution centres), institutional, recreational
Employment	1,600*

#### Pros

Large enough for immediate and future train storage needs

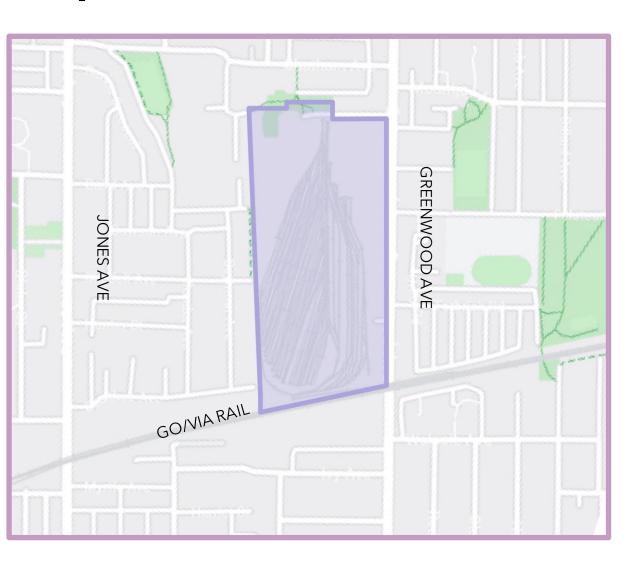
#### Cons

- Far from mainline (approx. 2 km) resulting in higher construction and operating costs
- Additional river crossing and impact to valleys
- Impact to commercial, industrial, institutional, and recreational uses, including non-profit and religious uses
- Neutralizes development potential along Lawrence Avenue and "core employment" area

#### Result

Carried forward

### **Option 9 - Greenwood Yard**



Land Use Existing TTC yard
Employment Estimated 300-400 TTC employees

#### **Pros**

- Existing TTC yard, no change in land use
- Adjacent community adapted to living beside a rail yard

#### **Cons**

- High cost and schedule uncertainty/risk moving TTC subway yard
- Challenging and costly track connection underground or via GO corridor
- Constrained for future expansion

#### Result

Carried forward

### **Long-list Screening** | Summary

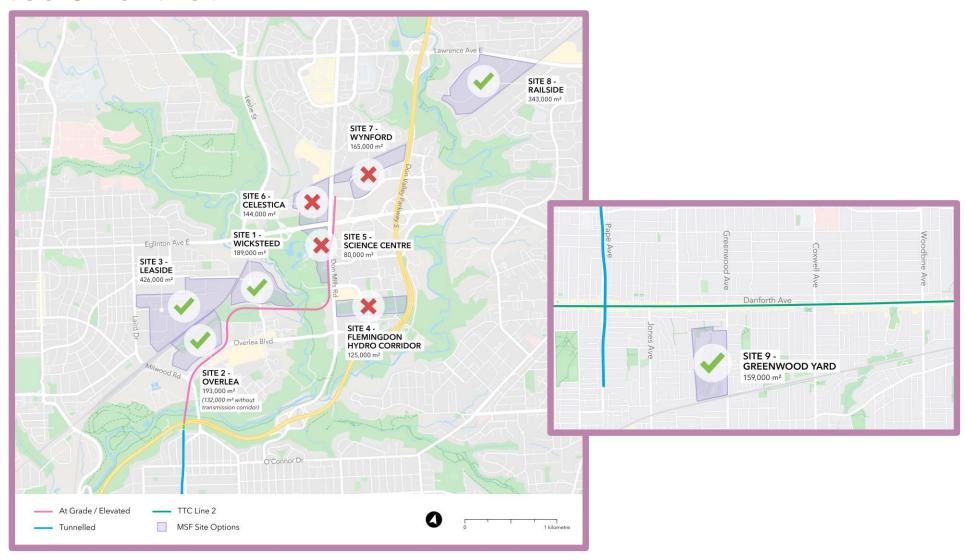
Site	Name	Distance from Mainline <i>m</i>	Space for 44 trains	Space for 10 trains	SHORT LIST
1	Wicksteed	190	Yes	Yes	Yes
2	Overlea	Adjacent	Yes	Yes	Yes
3	Leaside	410	Yes	Yes	Yes
4	Flemingdon Hydro Corridor	Adjacent	No	No	No
5	Science Centre	Adjacent	No	No	No
6	Celestica	Adjacent	Yes	No	No
7	Wynford	290	Yes	No	No
8	Railside	1,900	Yes	Yes	Yes
9	Greenwood Yard	830	Yes	No	Yes

# Shortlist





### **MSF Sites Shortlist**



### **Shortlist Evaluation** | Summary

Case	Measure	Site 1 - Wicksteed	Site 2 - Overlea	Site 3 - Leaside	Site 8 - Railside	Site 9 - Greenwood
Strategic	Surface Transportation Impacts	Closure of Wicksteed and Beth Nealson				
	Business Impacts <sup>1</sup>	up to 900 direct jobs impacted plus up to 8 fold indirect jobs	up to 1100 direct jobs impacted	up to 1900 direct jobs impacted plus up to 8 fold indirect jobs	1600 direct jobs	-
	Community Impacts		Major impacts		Major impacts to community services	Connection track impacts
	Environmental Impacts				300 m Don Valley crossing	Former landfill site, extensive remediation
Economic	Passenger Benefits	Comparable				
Financial	Cost <sup>2</sup>			<b>A</b>	<b>A</b>	<b>A A A</b> <sup>3</sup>
Deliverability	Constructability		Additional hydro corridor crossings	Risks crossing under CP and hydro corridor	Don Valley, DVP and CP crossings	Risk with connection tunnel and yard retrofit
& Operations	Schedule		Сотр	arable -		TTC relocation and connection track
		Prefe	erred			

<sup>&</sup>lt;sup>1</sup> Toronto Employment Survey (2019); Transportation Tomorrow Survey (2016); assumed TTC employment based on yard capacity and use

NB: Evaluation based on preliminary desktop analysis of alternatives. Further design and site investigations required to confirm impacts, mitigation, cost and schedule risk.

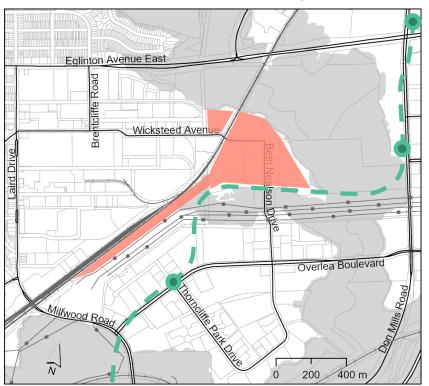


 $<sup>^2</sup>$  Relative capital costs include construction, property and O&M costs based on 0-2% design - for high level comparison only

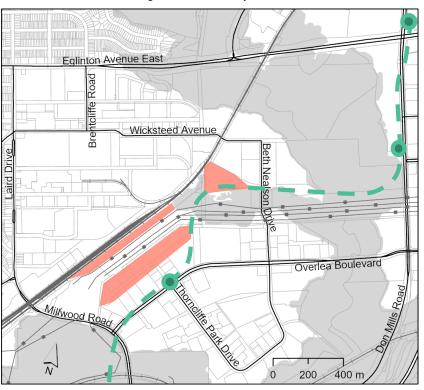
<sup>&</sup>lt;sup>3</sup> Accounts for cost new TTC yard, per TTC 15-year Capital Investment Plan & 2020 - 2029 Capital Budget & Plan - unfunded

### **Refined Shortlist Options**

#### Revised Wicksteed Option



#### "Hybrid" Option



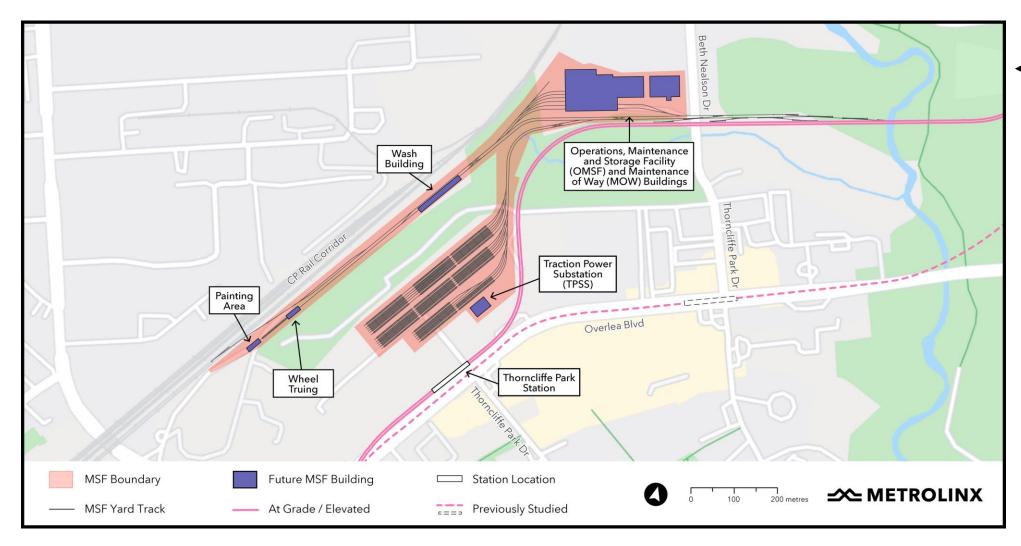
Additional design work was undertaken on the two preferred areas to minimize community and environmental impacts and confirm feasibility of layout

### **Options Evaluation** | Summary

	Revised Wicksteed Option	Hybrid Option		
Transportation Impacts	Permanent closure of Beth Nealson and Wicksteed	No major road closures; Beth Nealson underpass required		
Business Impacts	More jobs impacted (1050 jobs & 16 businesses)	Fewer jobs impacted (700 jobs & 57 businesses)		
Business Relocation Risks	Risk of permanent job losses during relocation of primarily manufacturing uses: Tremco, Siltech, Innocon, Lincoln Electric, & Parkhurst	Majority of Wicksteed manufacturing remains; smaller Thorncliffe businesses can be relocated to avoid job losses		
Community Impacts	Isolated site with limited impacts	Manageable disruption to local business/employment/community support as they can be relocated within Thorncliffe		
Noise & Vibration	Separated from residential	Closer to residential, additional mitigations required		
Natural Environment	Direct loss to natural areas within the Don Valley West Branch and Walmsley riparian area	Additional crossings of natural area and valley slope		
Cost	Comparable			
Constructability	Comparable			
Schedule Risks	Agreement on acceptable solutions to Beth Nealson and Wicksteed road closures	Complex property acquisition given number of property owners and tenants		
Operational Efficiency	Combined site, most efficient	Split site, less efficient		
		Preferred		



### **Current MSF Design**



■ Following the selection of the preferred hybrid layout, further design work was undertaken to optimize the area to limit impact to commercial area

## → METROLINX

