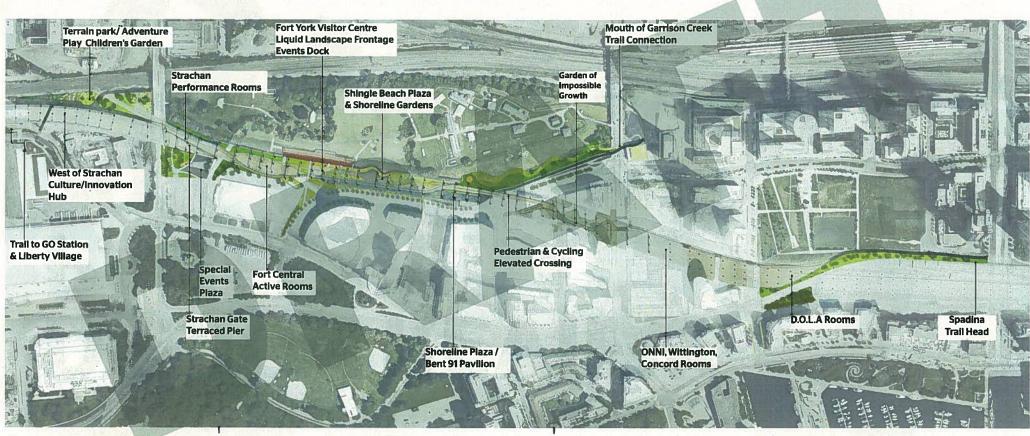
PROJECT: UNDER GARDINER

DESIGNREVIEW PANEL UPDATE 2016,05.10 Advance Materials

Greenberg Consultants Inc.

PUBLIC WORK

MASTER PLAN VISION - All Phases



Bents 38-52

West Edge Creative Action Hub Bents 53-97

Fort Central Programmed Landscape

Bents 98-118

East Community

Community Link and Amenities

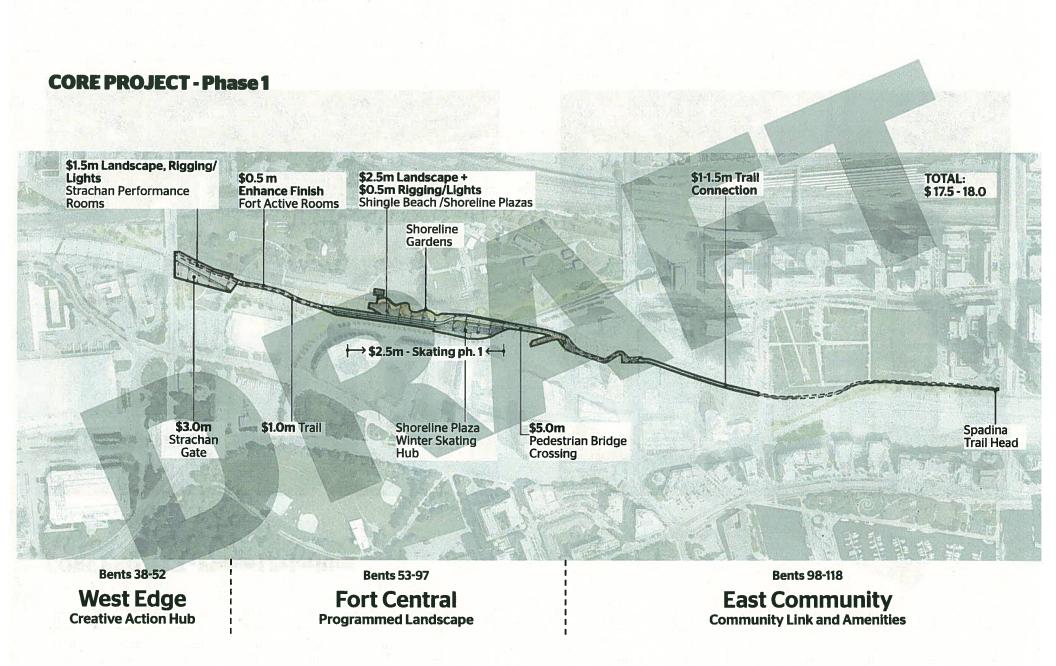
CORE PROJECT - Phase 1 Priorities





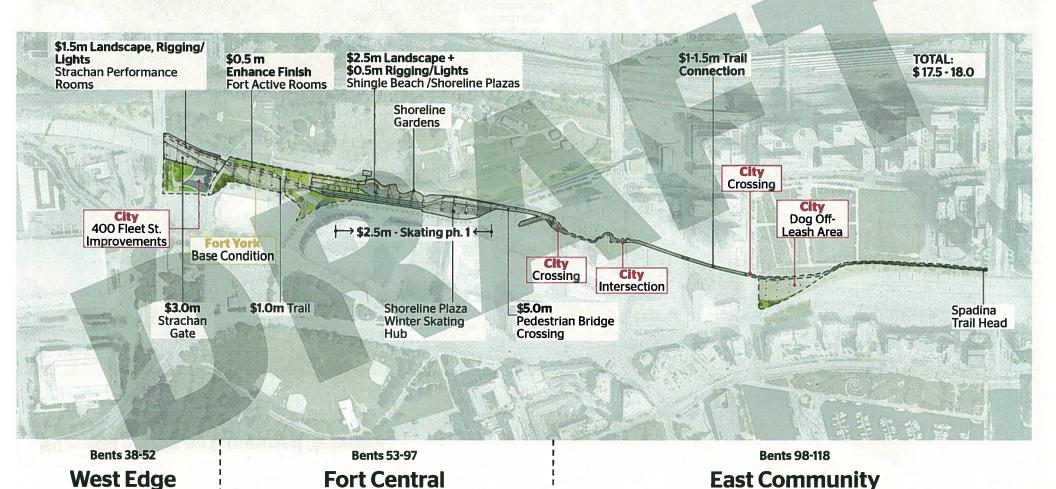






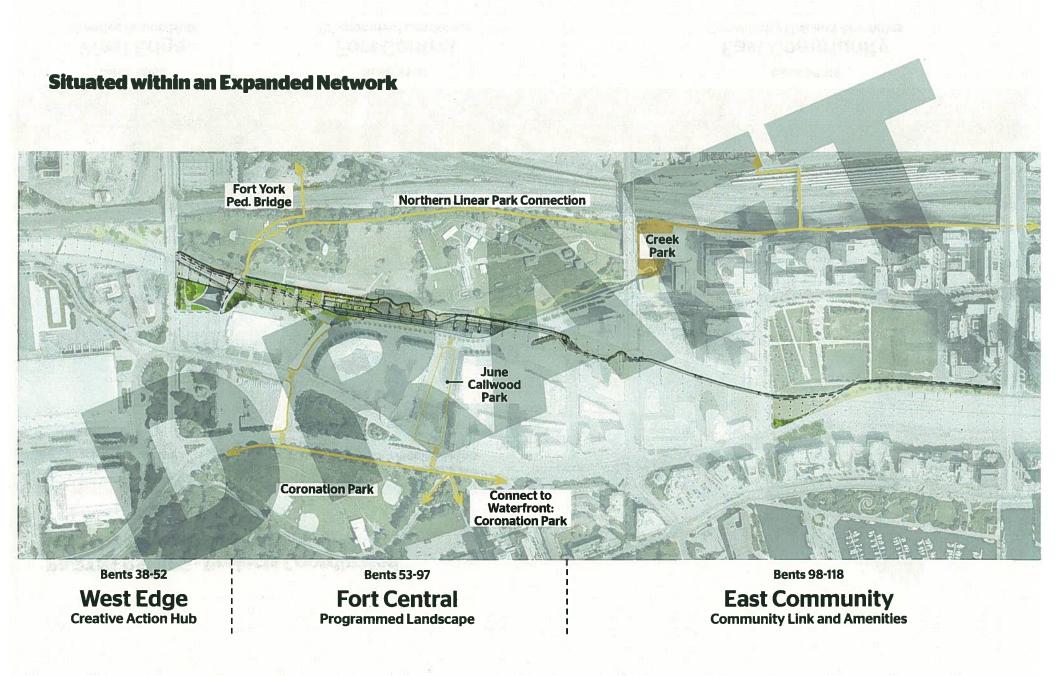
PARTNERSHIPS - Projects Coordinated with the City and Fort York

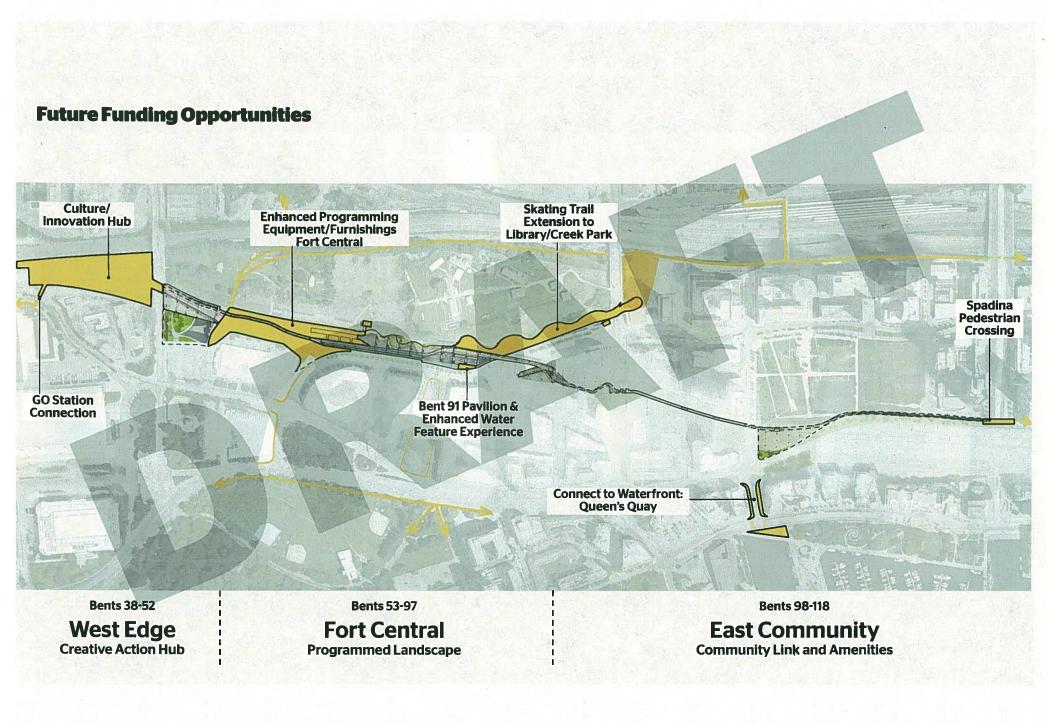
Creative Action Hub



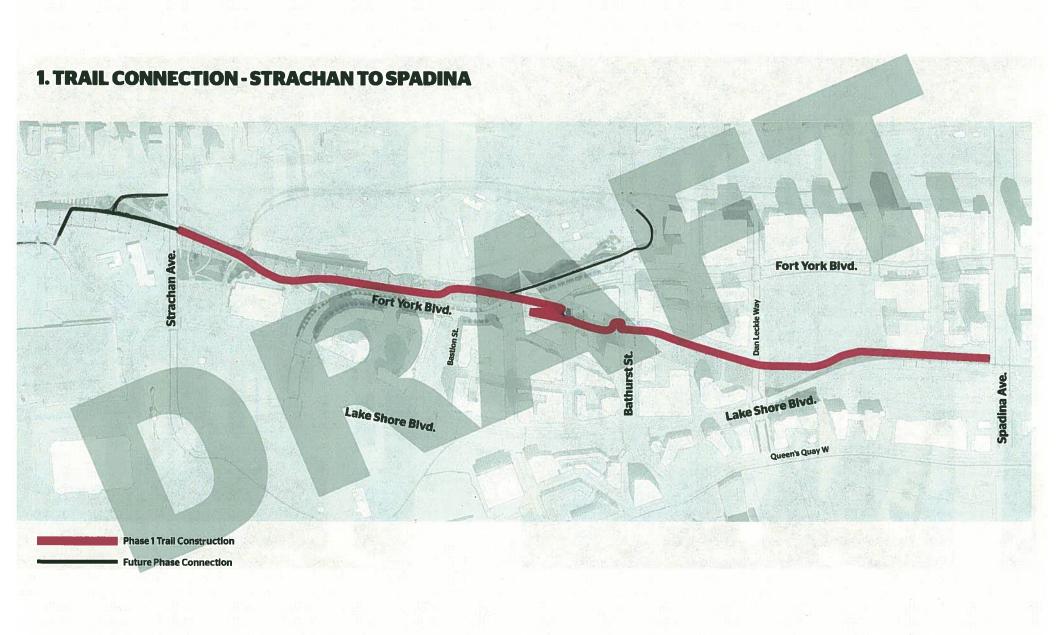
Community Link and Amenities

Programmed Landscape



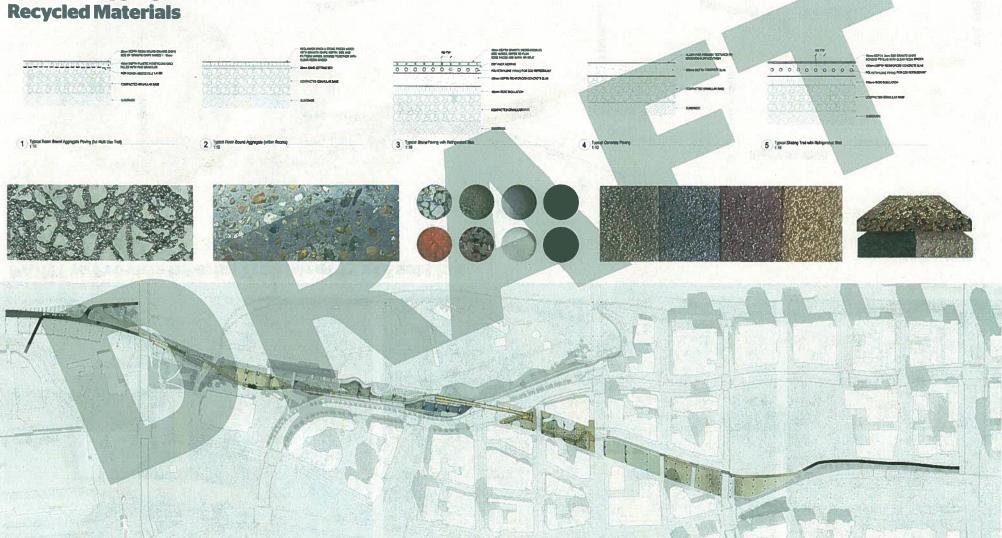


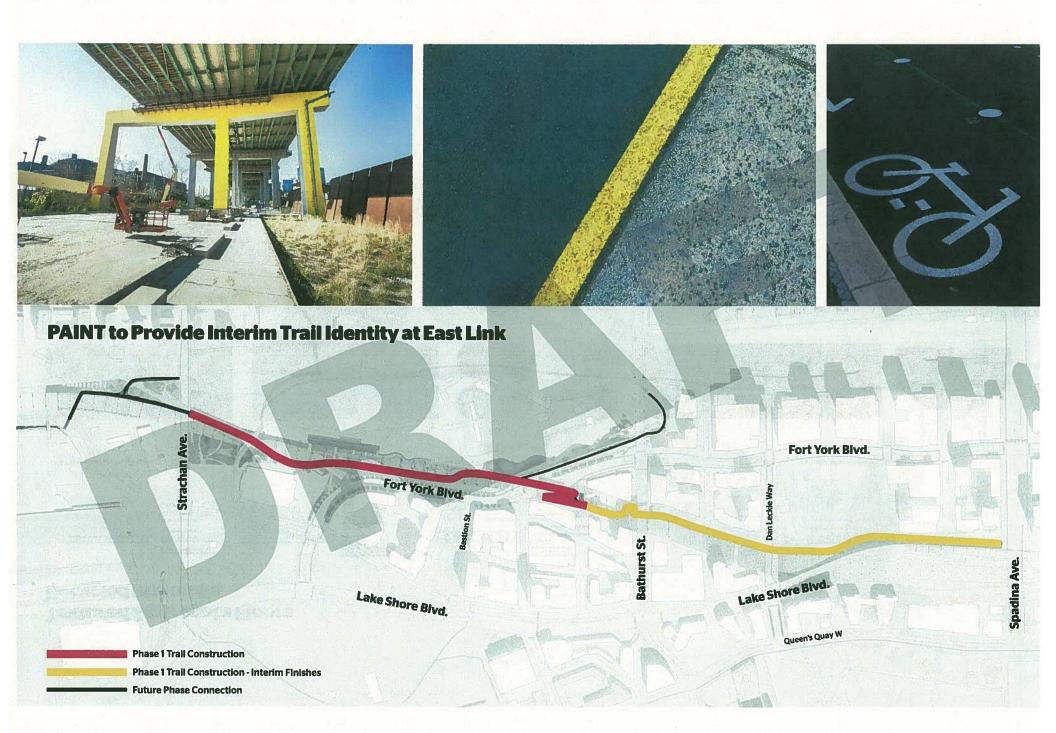




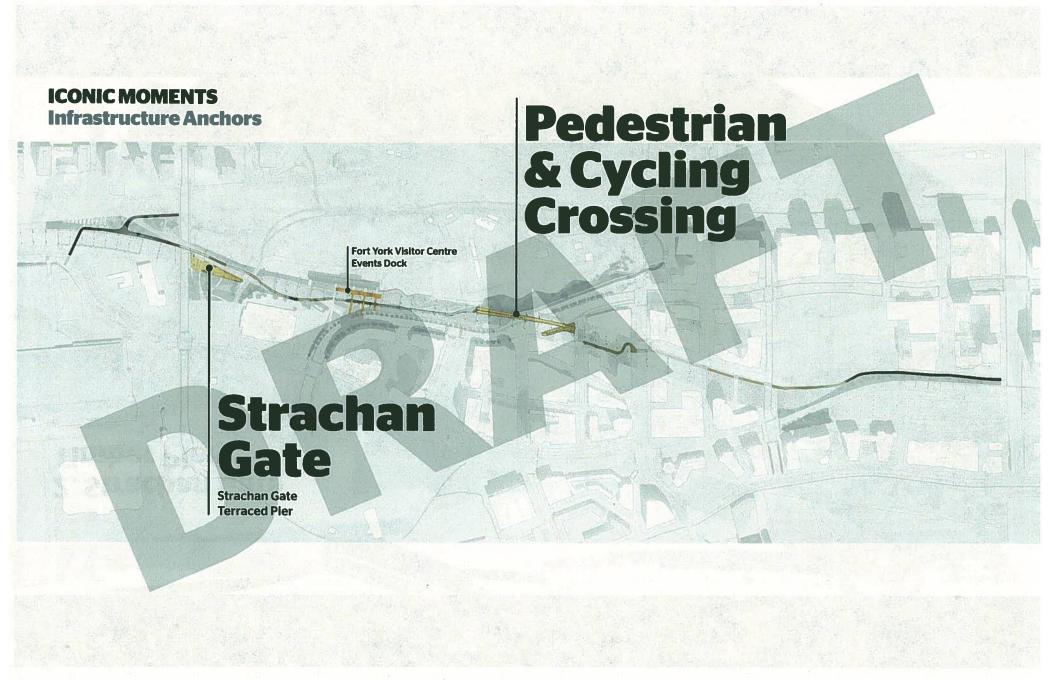


Textured Aggregate Floors Recycled Materials

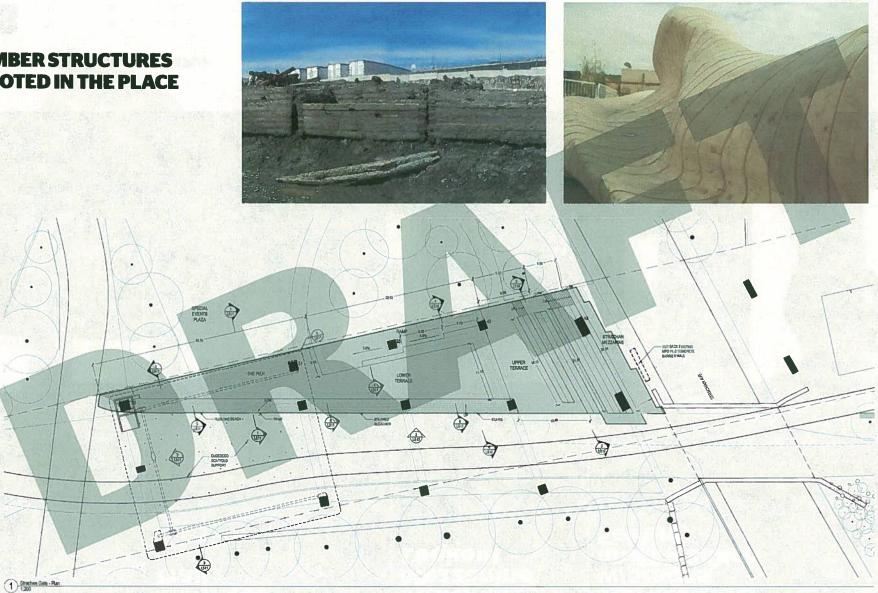


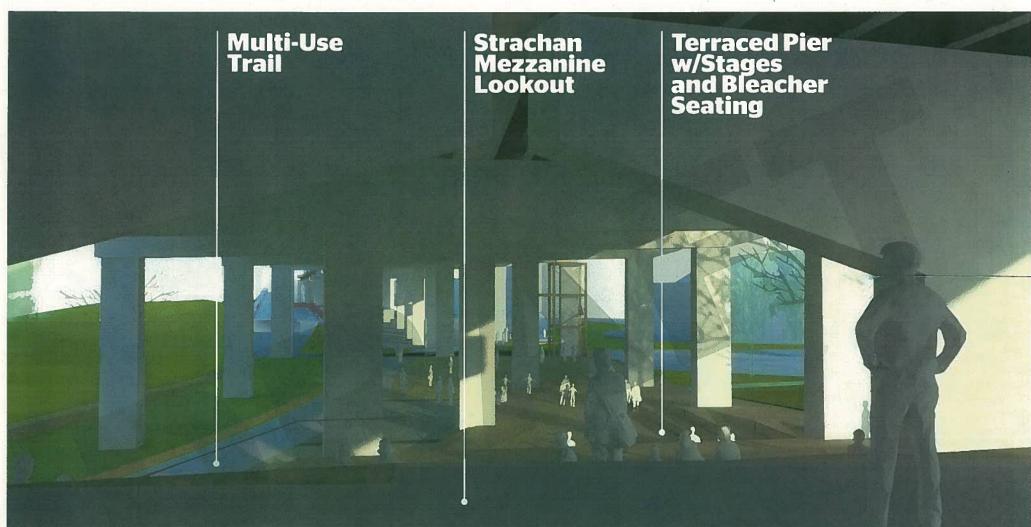






TIMBER STRUCTURES **ROOTED IN THE PLACE**

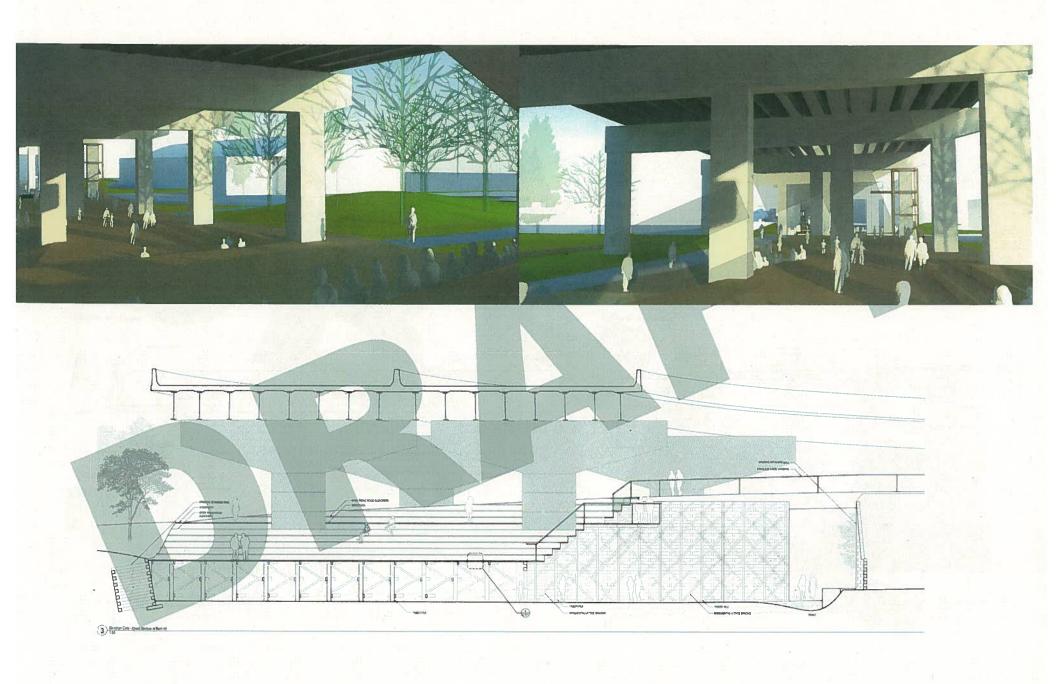


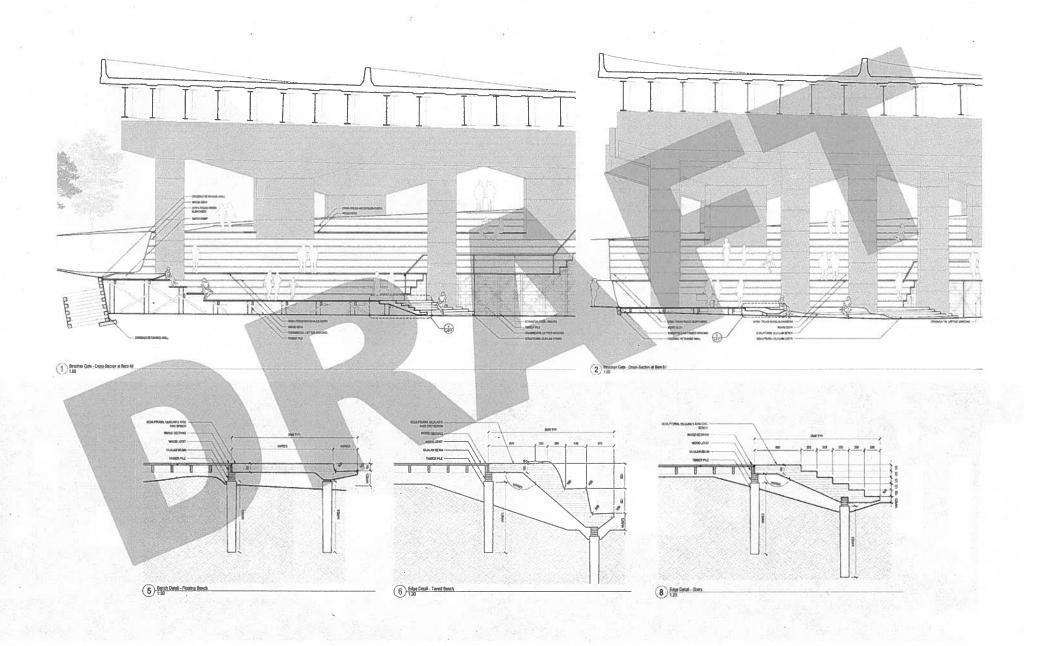


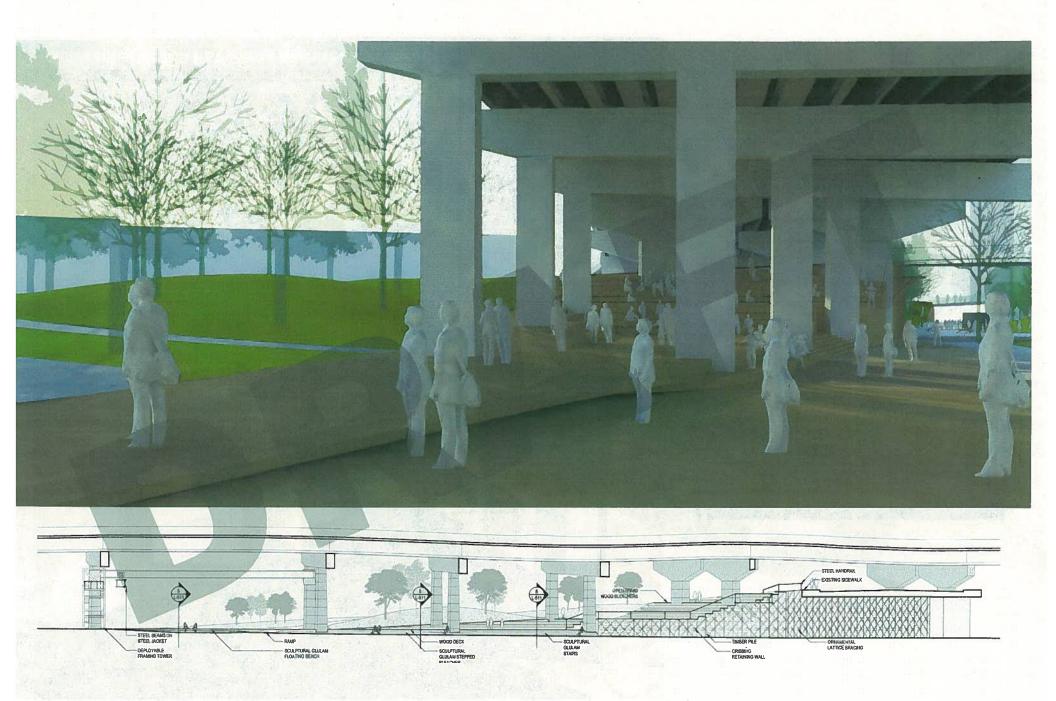
View East - Strachan Gate Terraced Pier Bent

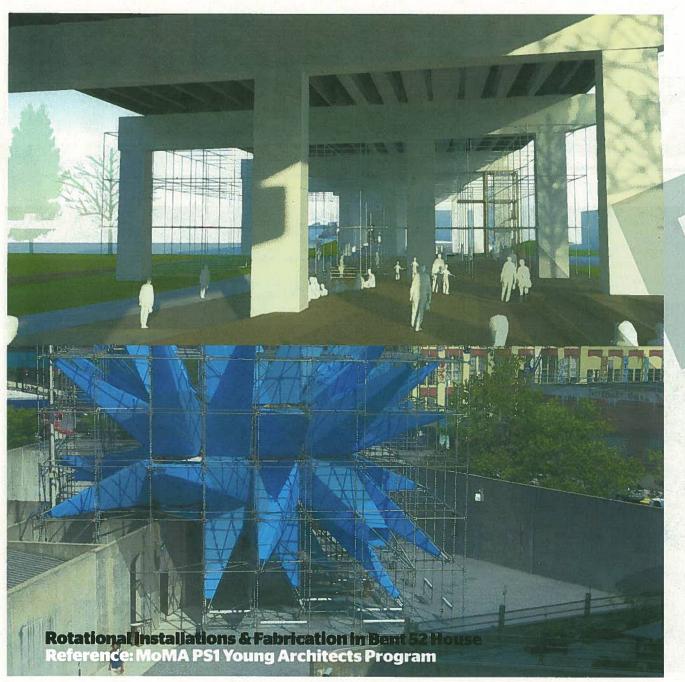
48

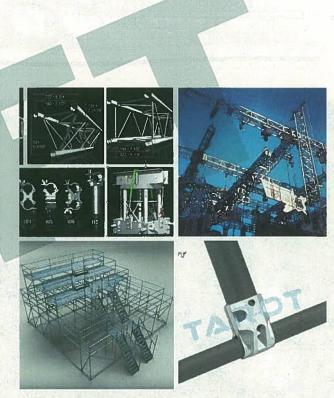




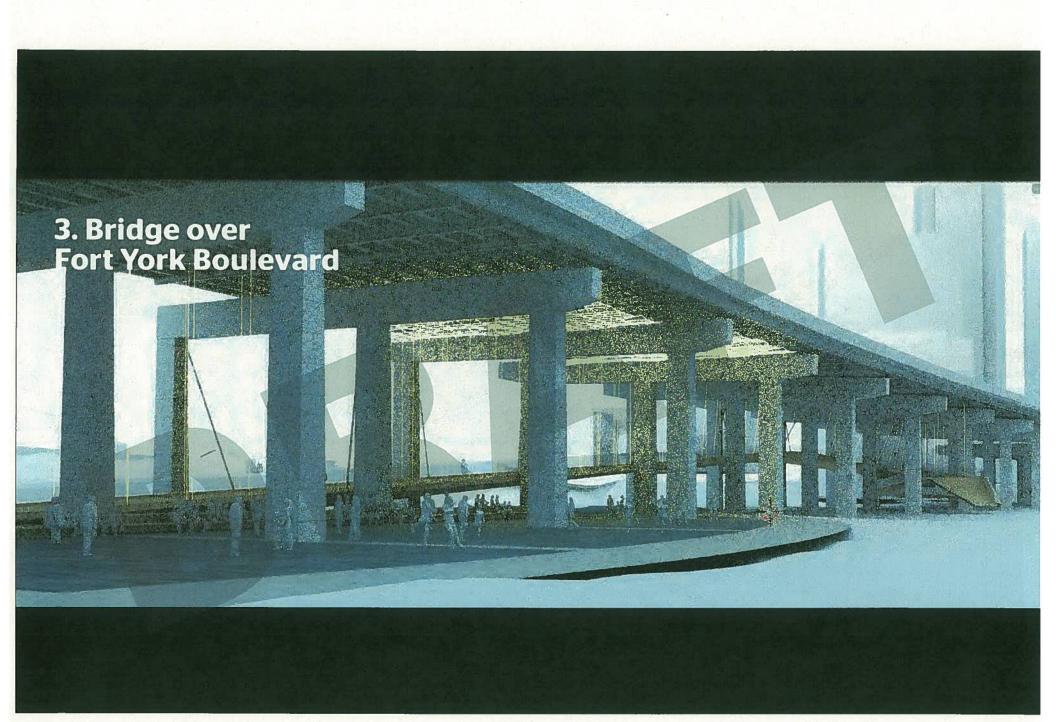


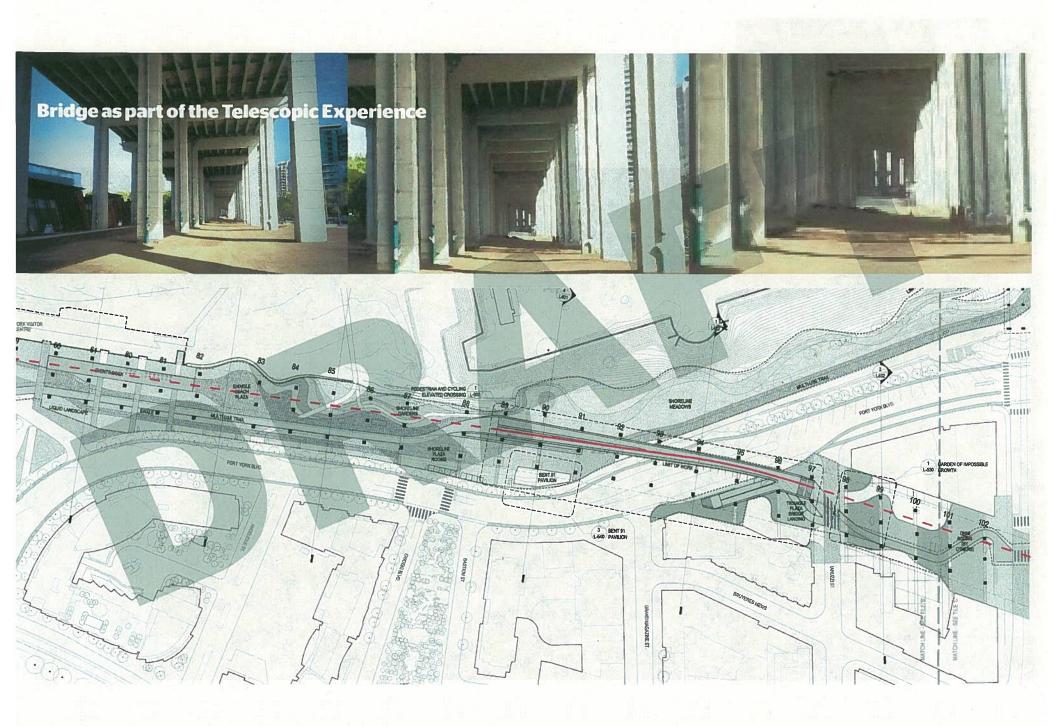


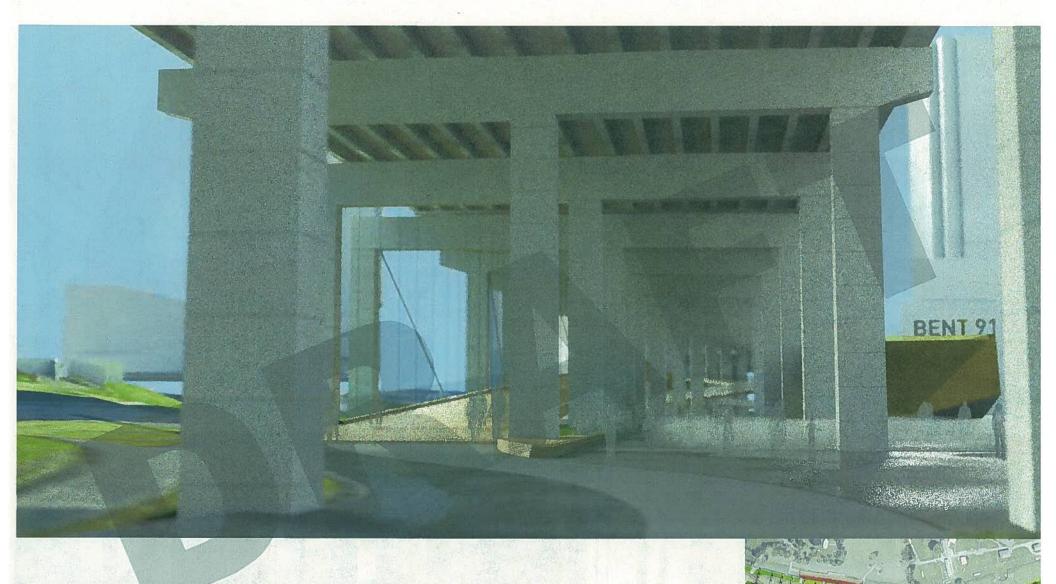




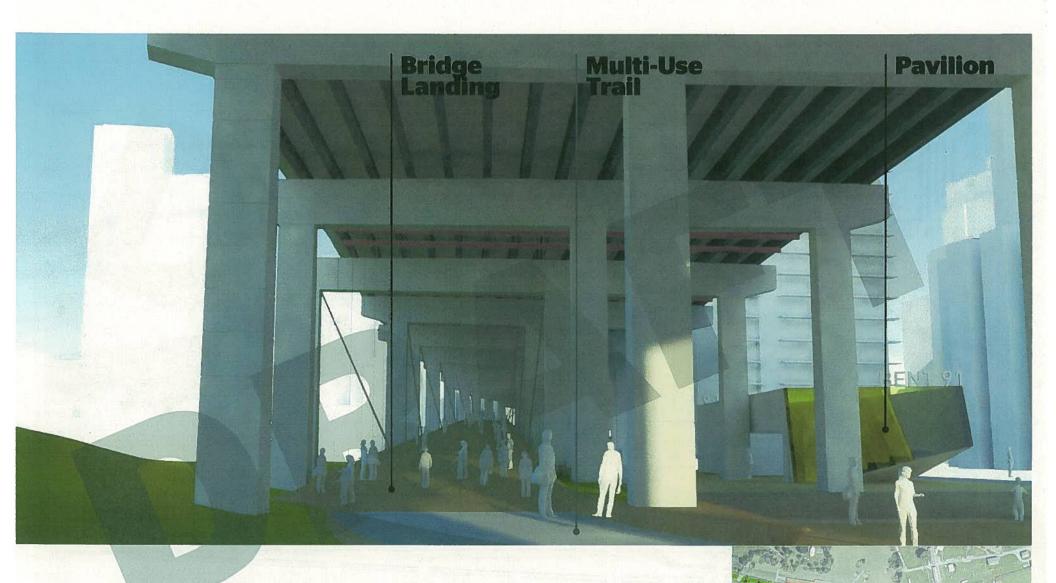




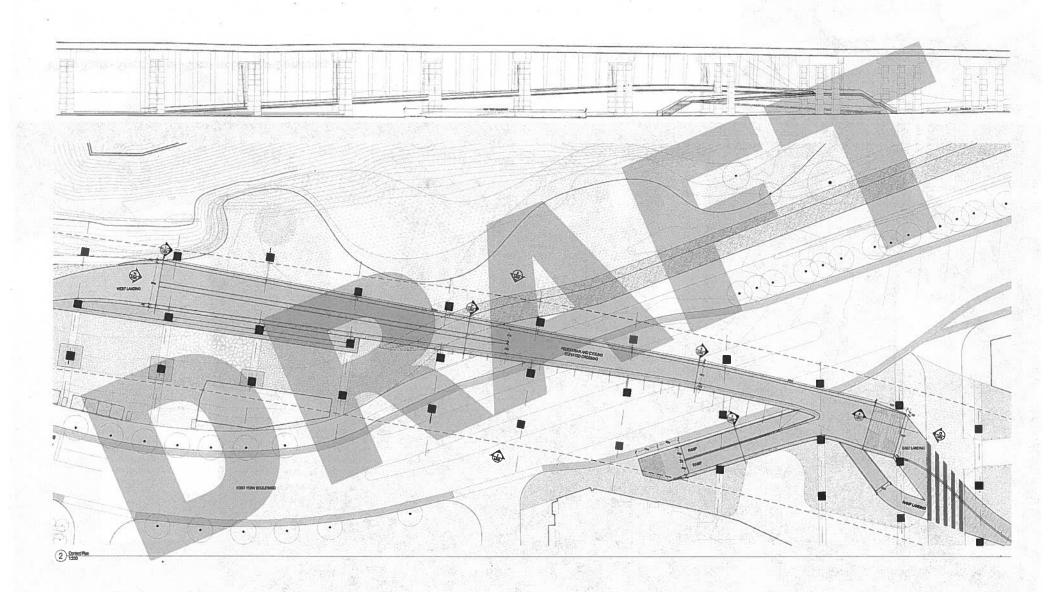


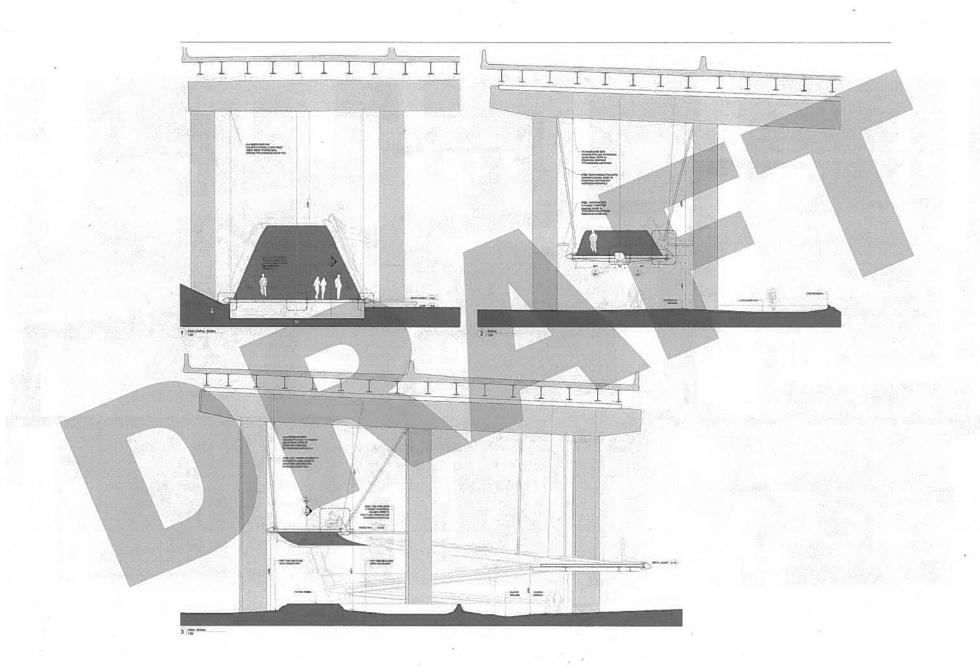


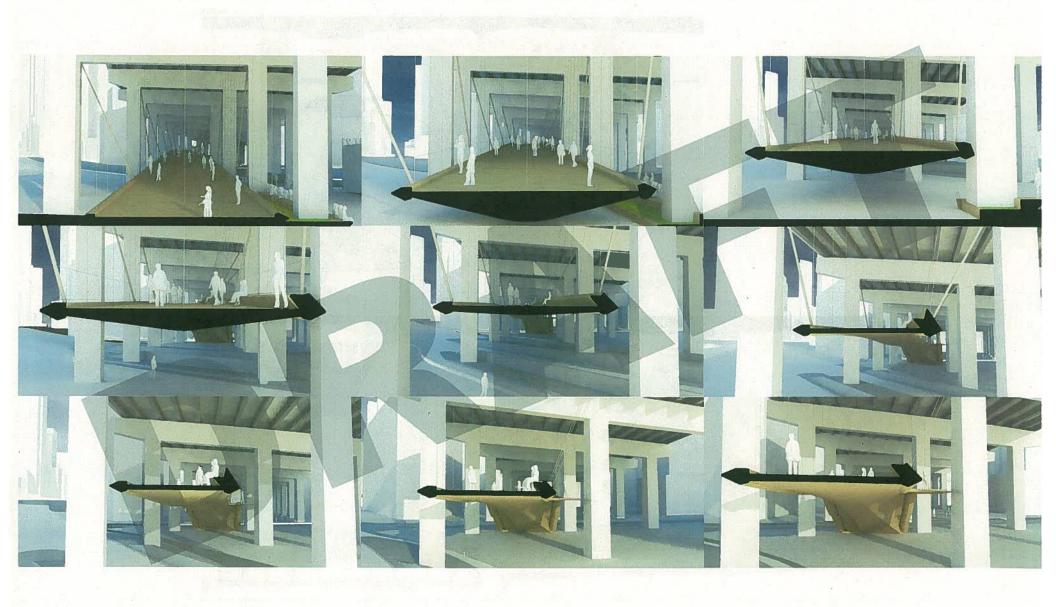
View East - Shoreline Plaza approaching Bridge Landing

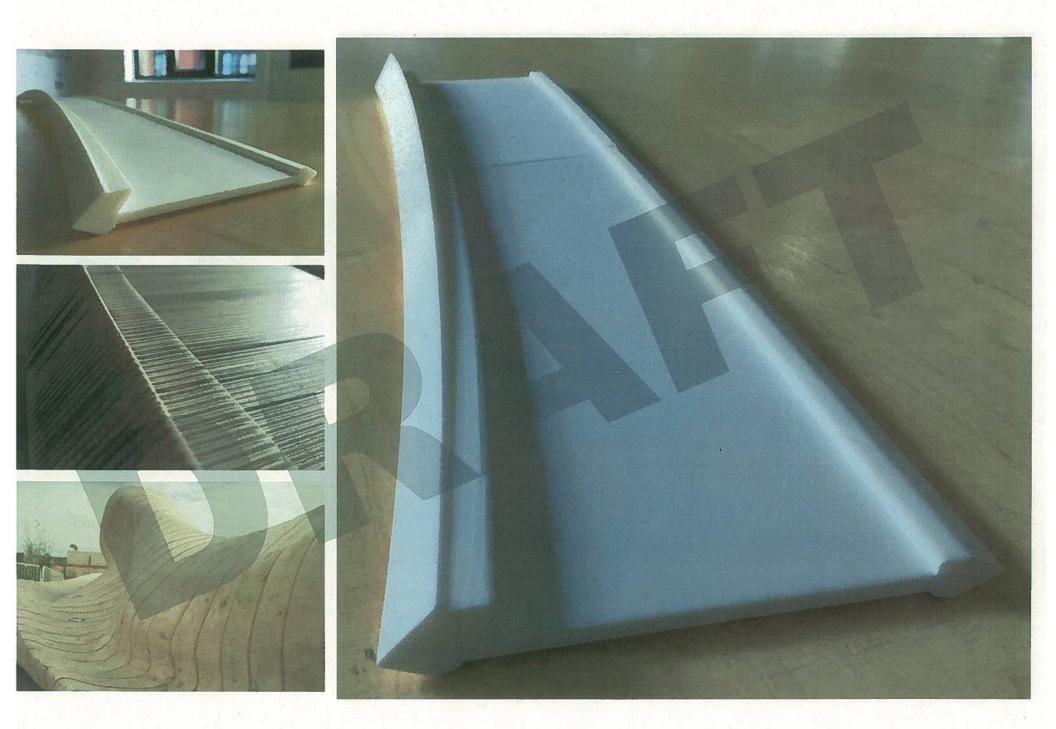


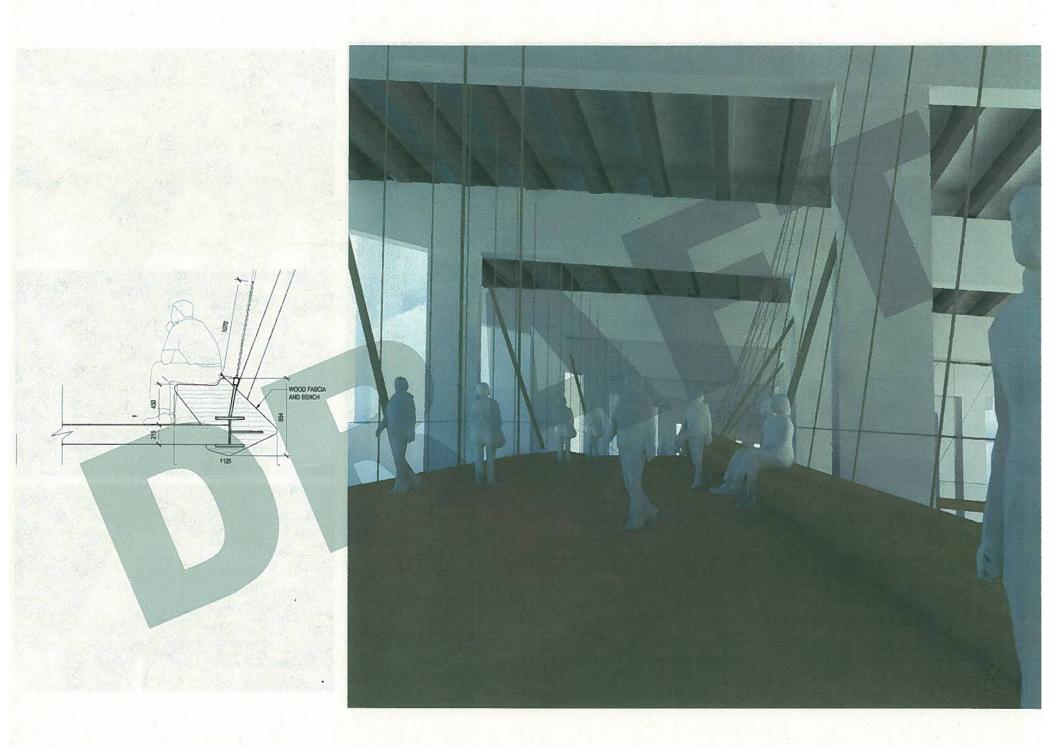
View East - Shoreline Plaza at Bridge Landing

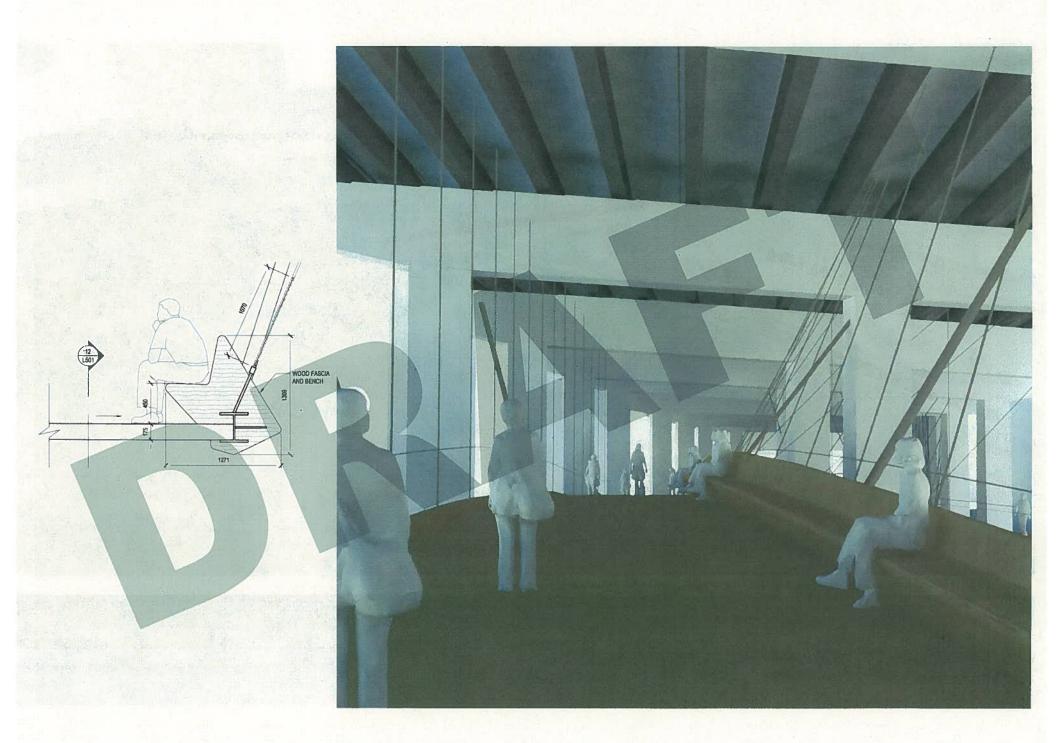


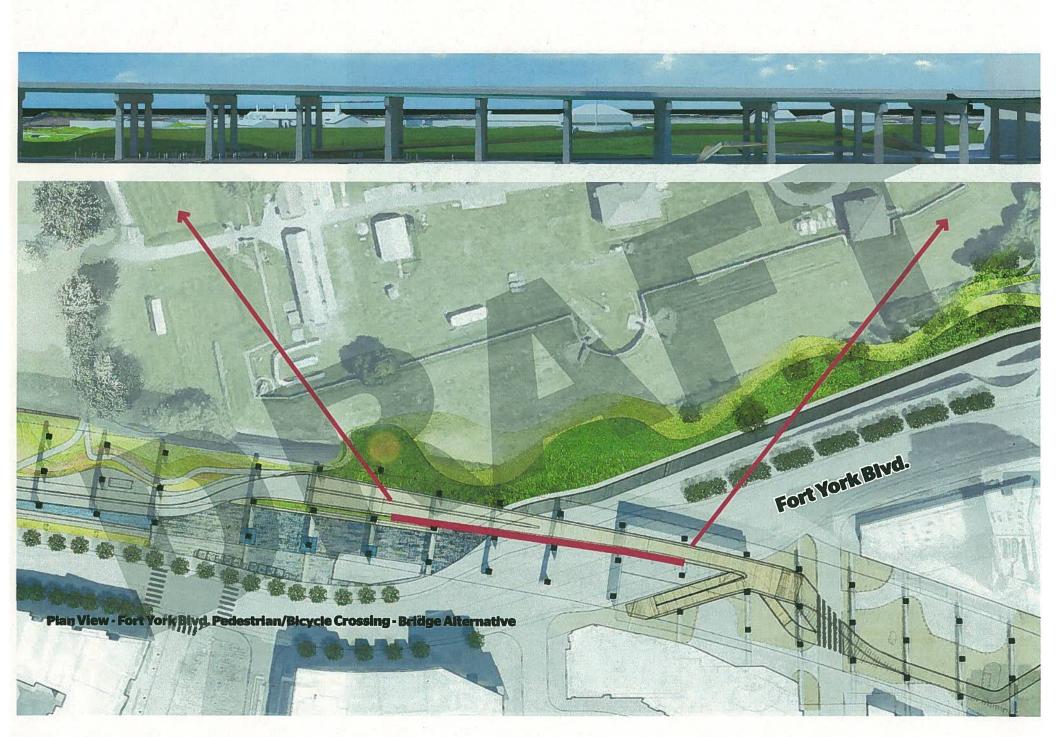






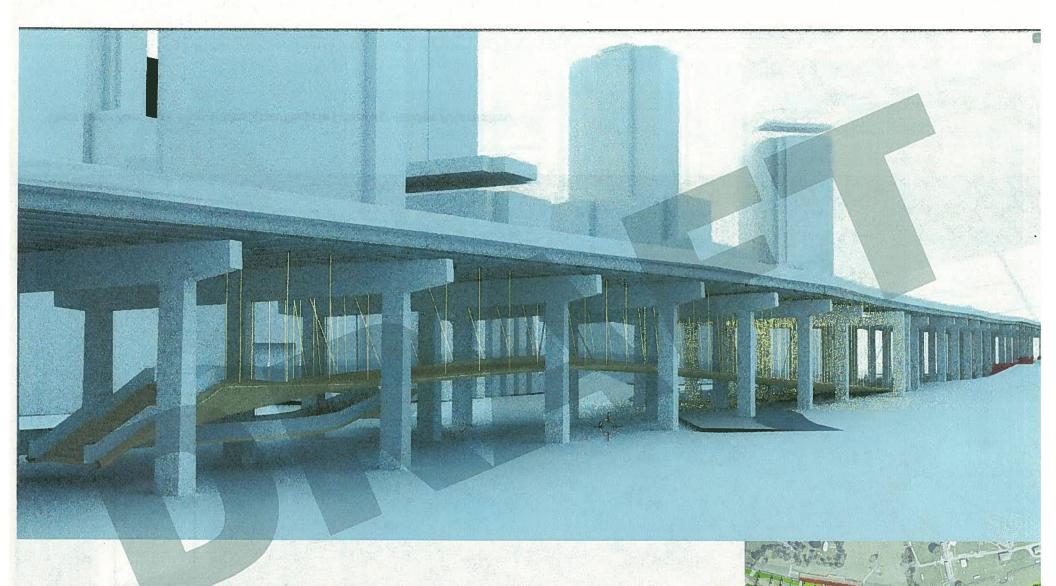








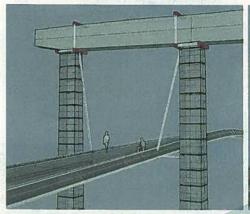
View East - Fort York Blvd. Pedestrian/Bicycle Crossing - Bridge Alternative



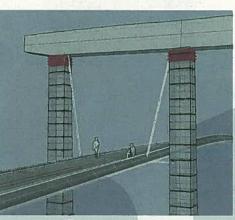
View East - Shoreline Plaza approaching Bridge Landing

Structural Explorations

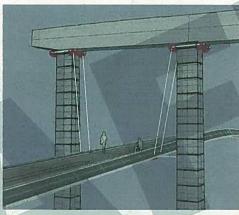
Harnessing the Excess Structural Capacity (45%) of the Bents



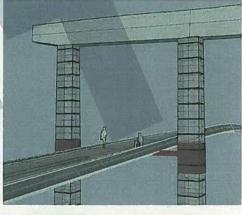
HSS Brace Frame System



Friction Jacket and HSS Brace Frame System



Friction Hanger System



Friction Jacket and Cross Beam System

2.DESIGN STRATEGIES

Retain a reasonable reserve of excess capacity in the existing structure.

I.Retain 5% in excess live load capacity (to allow for an increase in truck loads).

ii. Retain 10% in excess live load capacity when the Bent 52 Gantry and metropolitan rigging functions are reduced to their core functions only. b. Retain reasonable access for maintenance and inspection of the existing structure.

i.Any new connections to the existing structure are detachable.
ii.The elevated walkway is designed to clear span between bents where necessary for deck replacement work. The elevated walkway;

1 does not depend on the Gardiner bridge deck for support of selfweight, light duty construction loads per Table 2 of ASCE 37, or wind loads.

Is allowed to exceed common serviceability limits when detached from the bridge deck and not occupied by pedestrians.
 3.depends on the Gardiner bridge deck for support of occupancy leads.

iii. Negotiate mechanism for routine inspection of the underside of the bridge deck with City authorities.

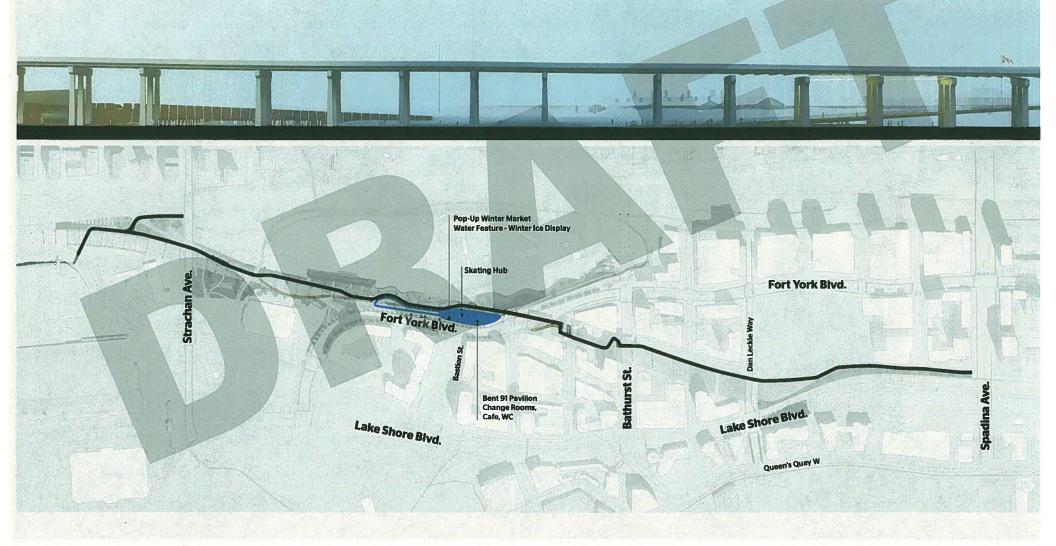
Element	Capacity Used by Current Design Loads	Excess Capacity Available for New Superimposed Loads
Steel Composite Deck Beams	90%	10%
Concrete Bent Girder	90%	10%
Concrete Bent Columns	55%	45%





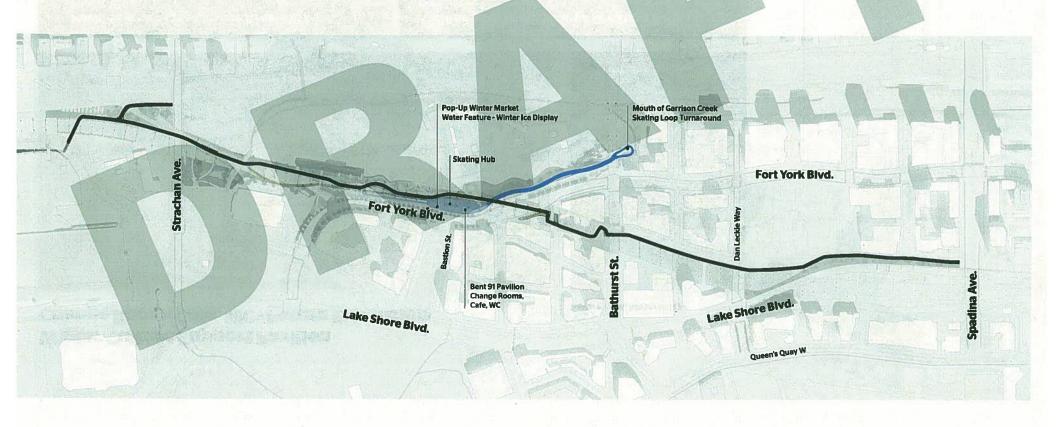
Trails & Connections Skating Trail Phase 1

AMBITION: TO CREATE TORONTO'S ULTIMATE SKATING TRAIL!



Trails & Connections Skating Trail - Future Expansion

AMBITION: TO CREATE TORONTO'S ULTIMATE SKATING TRAIL!



Winter Culture Support Pavilion Change Room, Cafe, WC - Future Expansion



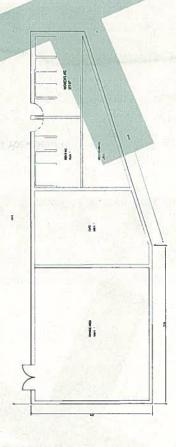








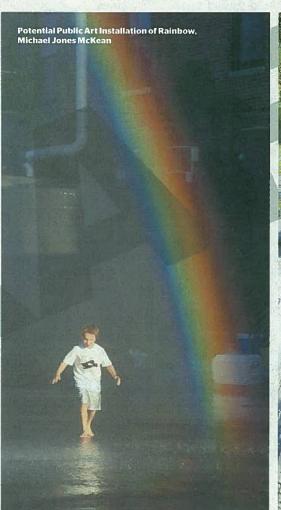
Pavilion with Skate Change Area and Café Day View

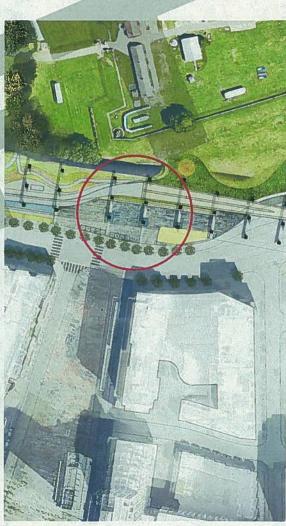


Winter Culture Support Pavilion Change Room, Cafe, WC - Future Expansion



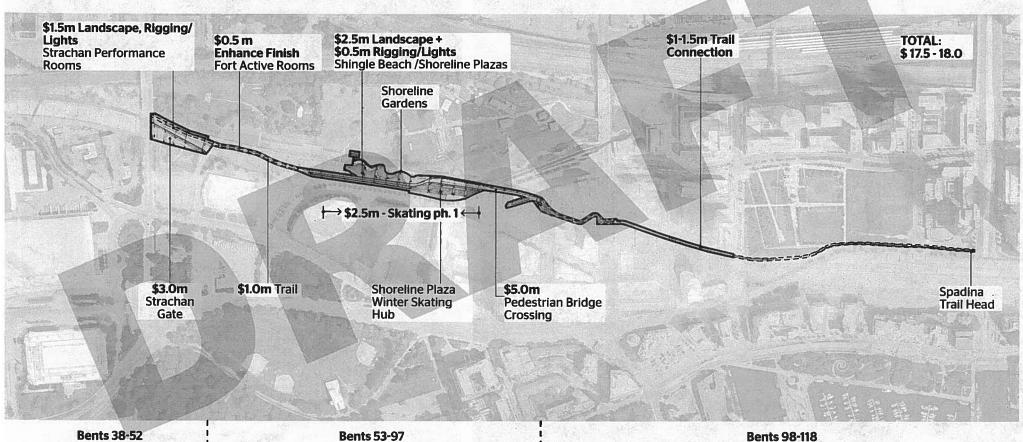








5. Strategic Enabling Programming Infrastructure



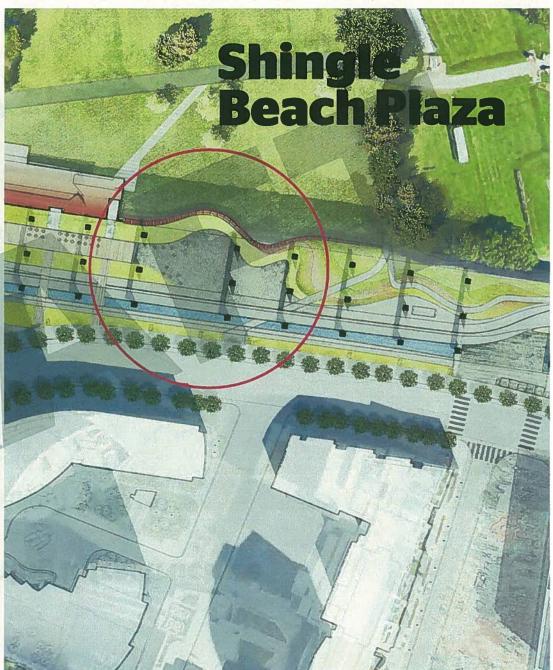
West Edge Creative Action Hub

Fort Central Programmed Landscape

East Community Community Link and Amenities











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