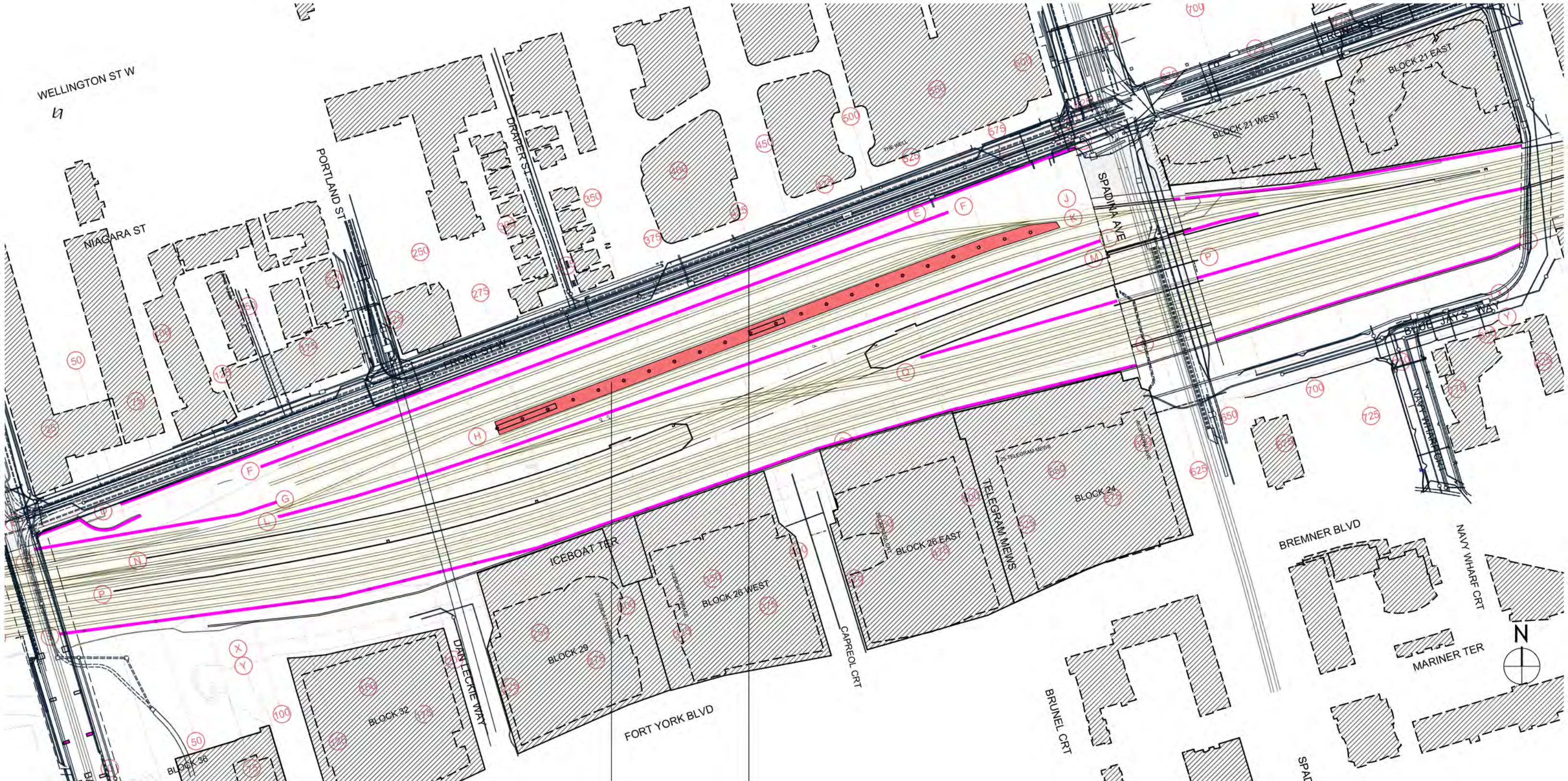




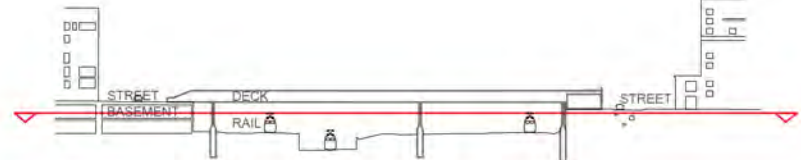
APPENDIX A

Analytical Plans

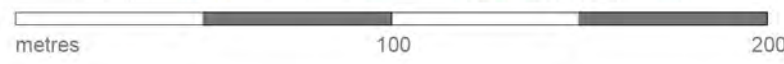
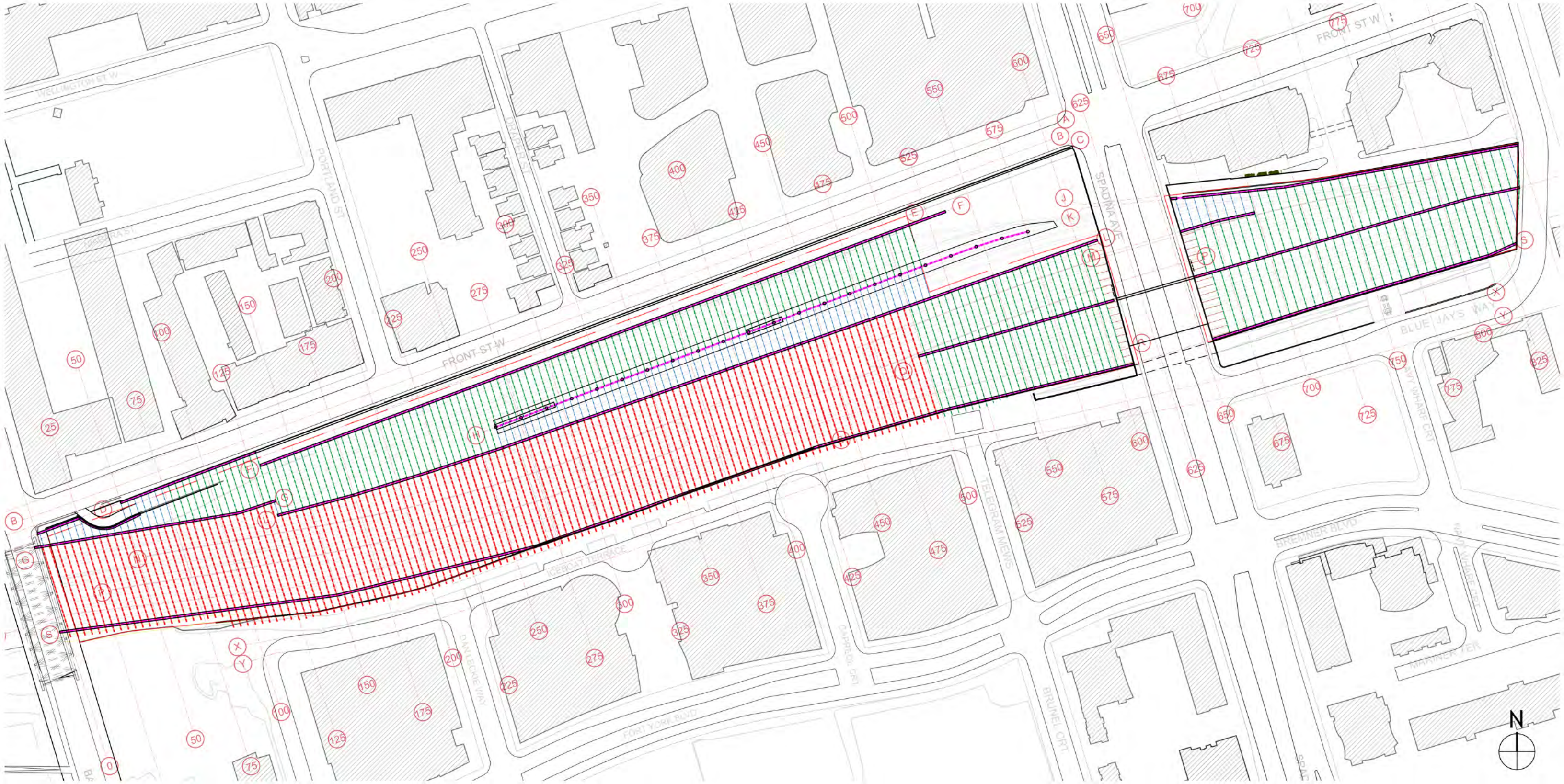
- Track Level Proposed Plan 1:2000
- Street Level Framing Plan 1:2000
- Park Level Grading Plan 1:2000
- Decking Over Rail Area Plan 1:2000
- Boundary Areas Plan 1:2000
- RDP Overall Area Plan 1:2000



- KEY**
- EXISTING STRUCTURE
 - PROPOSED WALL STRUCTURE
 - EXISTING RAIL TRACKS



**TRACK LEVEL
PROPOSED PLAN**
 SCALE 1:1000 @ 34"x22" 1:2000 @ 17"x11" 05 JULY 2017
 DRAWING NUMBER: RDP-APP-A-01
McMILLAN ASSOCIATES ARCHITECTS



- SITE BOUNDARY
- PRIMARY BEAM
- SECONDARY BEAM (1 - 20m STRUCTURAL SPAN)
- SECONDARY BEAM (20-40m STRUCTURAL SPAN)
- - - SECONDARY BEAM (40-60m STRUCTURAL SPAN)
- I BEAM



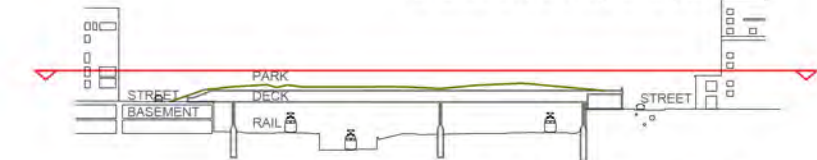


KEY

- STEPPED ACCESS
- RAMPED ACCESS
- LIFT ACCESS
- ENTRANCE TO RAIL DECK PARK

- +89.1 PROPOSED LEVEL
- +89.1 EXISTING LEVEL

- existing Metrolinx service ramp
- new lay-by area
- station / kiosk
- station
- new building / station
- new road width / layout to Front St
- Spadina underpass
- new pedestrian ramp to extend connection to Blue Jays Way and park

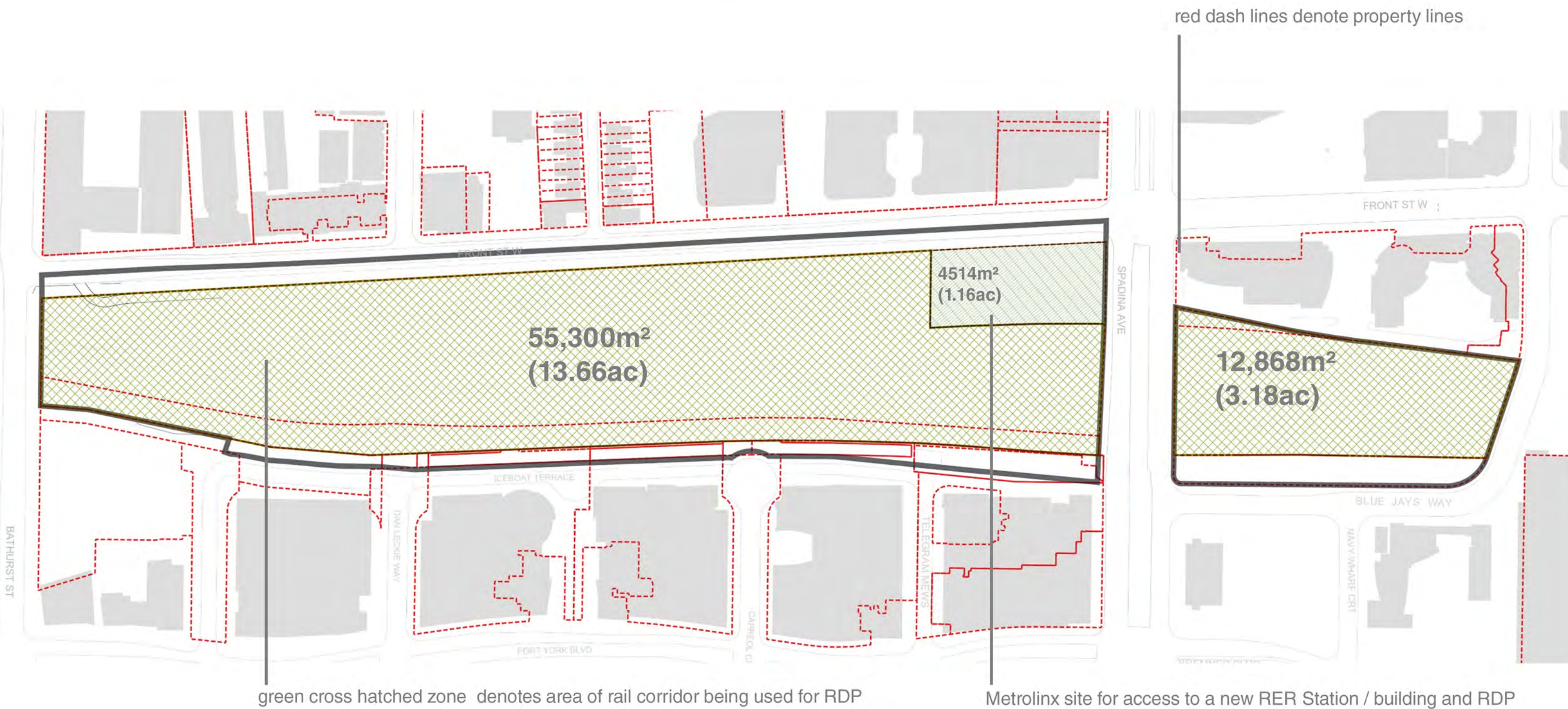


**PARK LEVEL
PROPOSED PLAN**

SCALE 1:1000 @ 34"x22" 1:2000 @ 17"x11" 26 JULY 2017

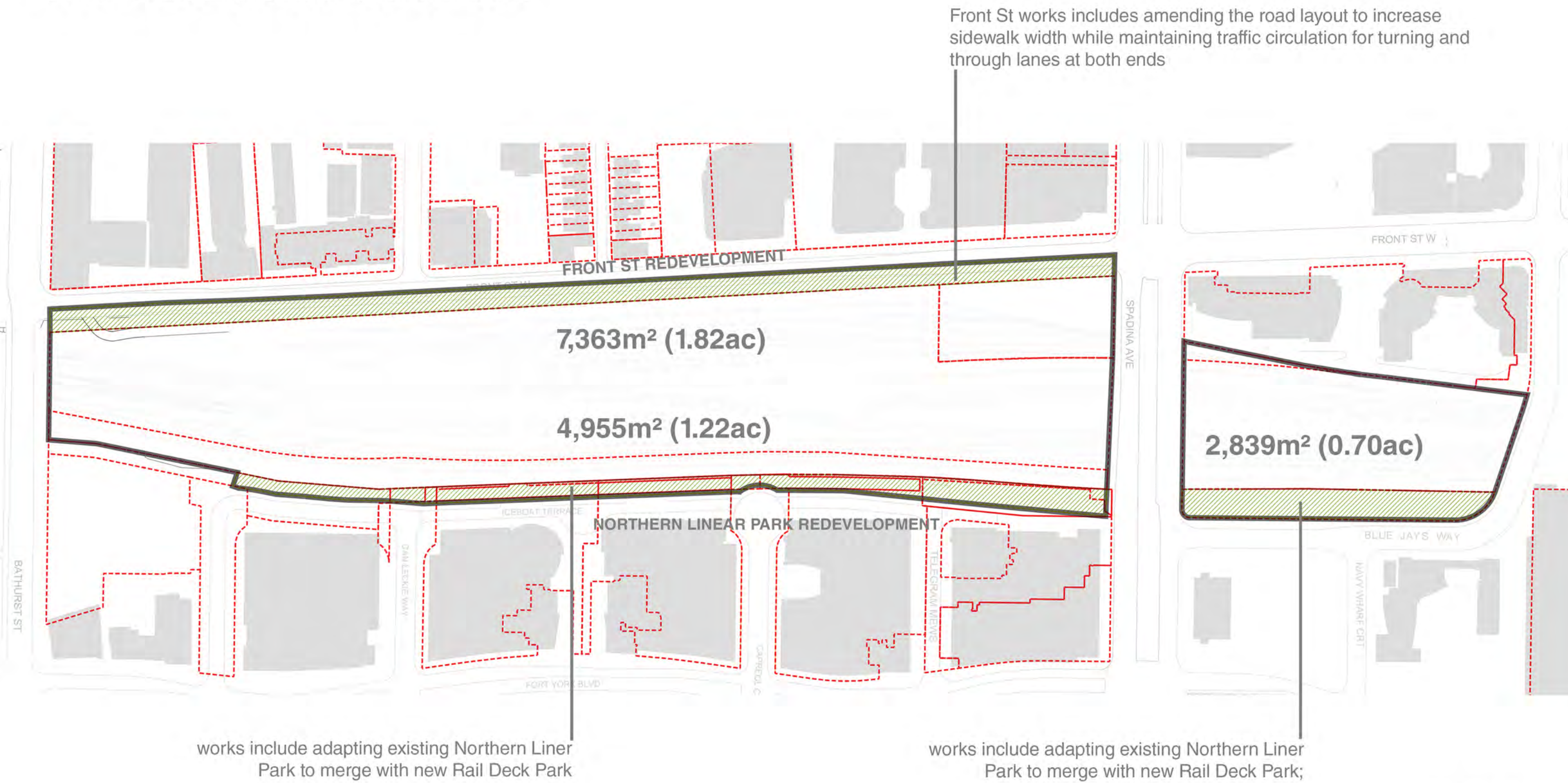
DRAWING NUMBER: RDP-APP-A-03

DECKING AREA OVER RAIL



TOTAL : 68,168m² (16.84ac) + 4,514 m² (1.16)= **72,682m² (18.0ac)**

BOUNDARY AREAS

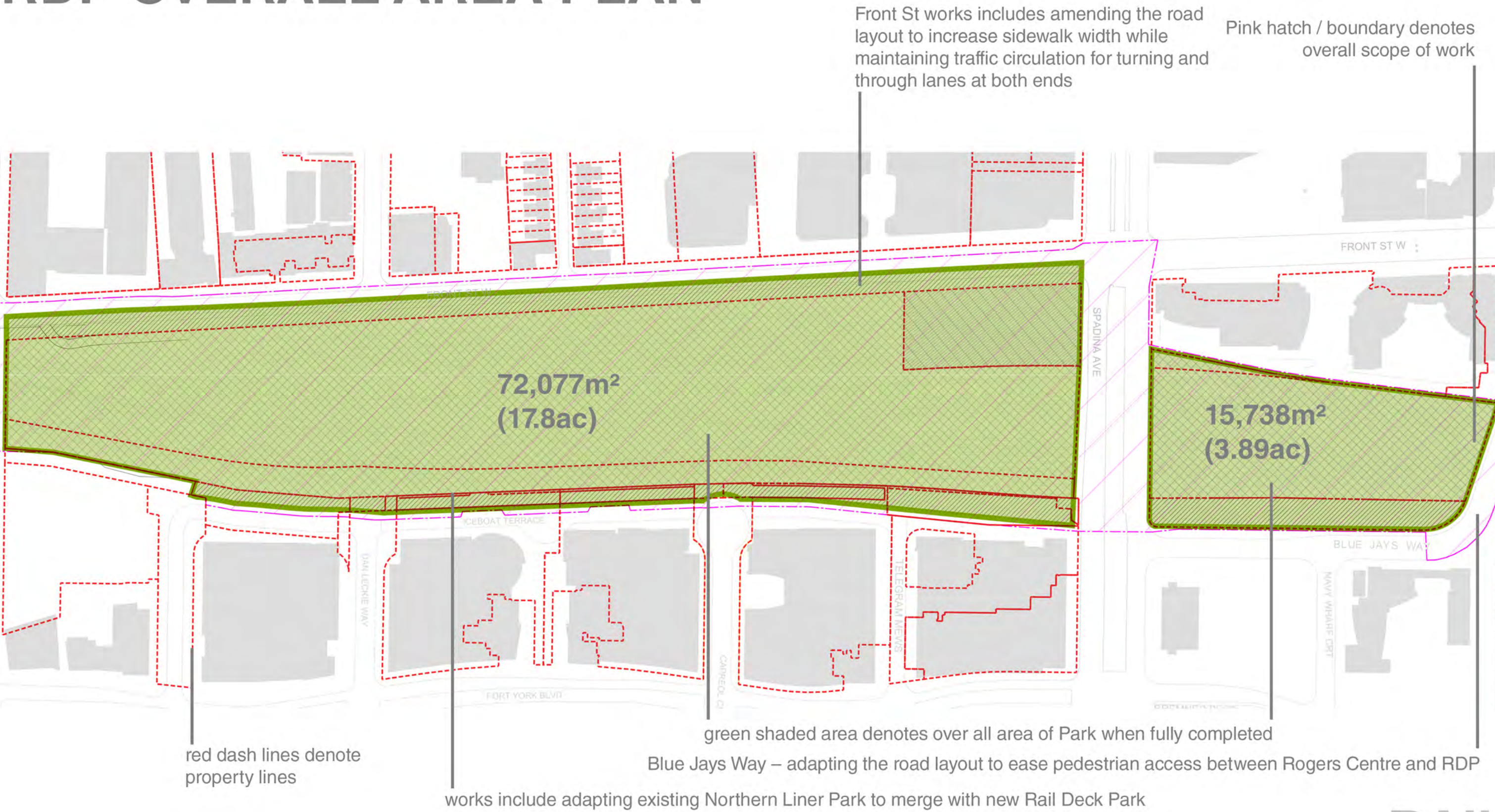


TOTAL: 7,363m² (1.82ac) + 4,955m² (1.22ac)+ 2,839m² (0.70ac) = **15,157m² (3.74ac)**

DRAWING NUMBER
RDP-APP-A-05

**RAIL
DECK
PARK**

RDP OVERALL AREA PLAN



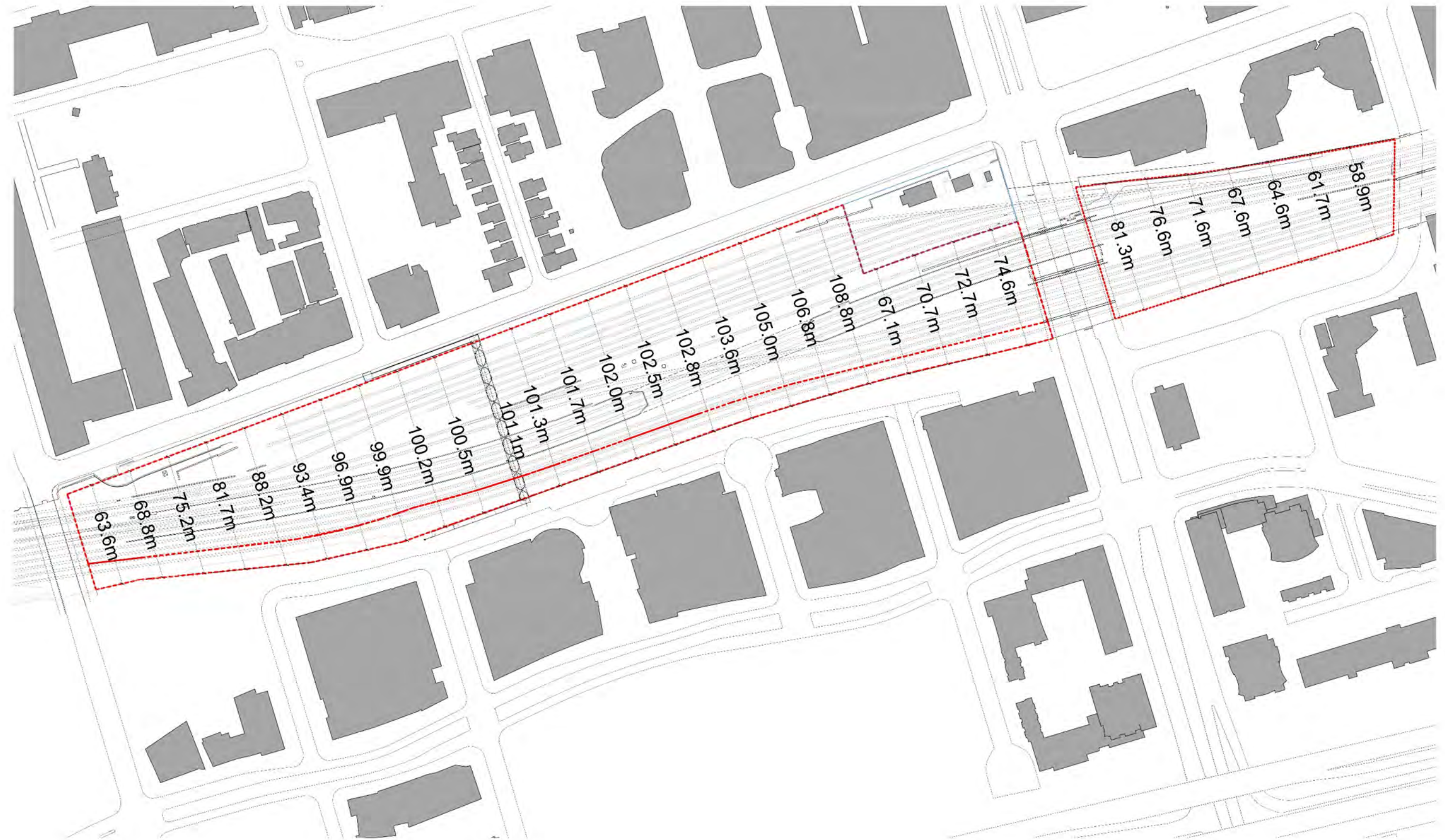
TOTAL AREA AS PART OF COMPLETED PARK : 87,815m² (21.7 ac)

INLCUDES 4514m² (1.16ac) from Metrolinx site

DRAWING NUMBER
RDP-APP-A-06

RAIL
DECK
PARK

Site Span Dimensions

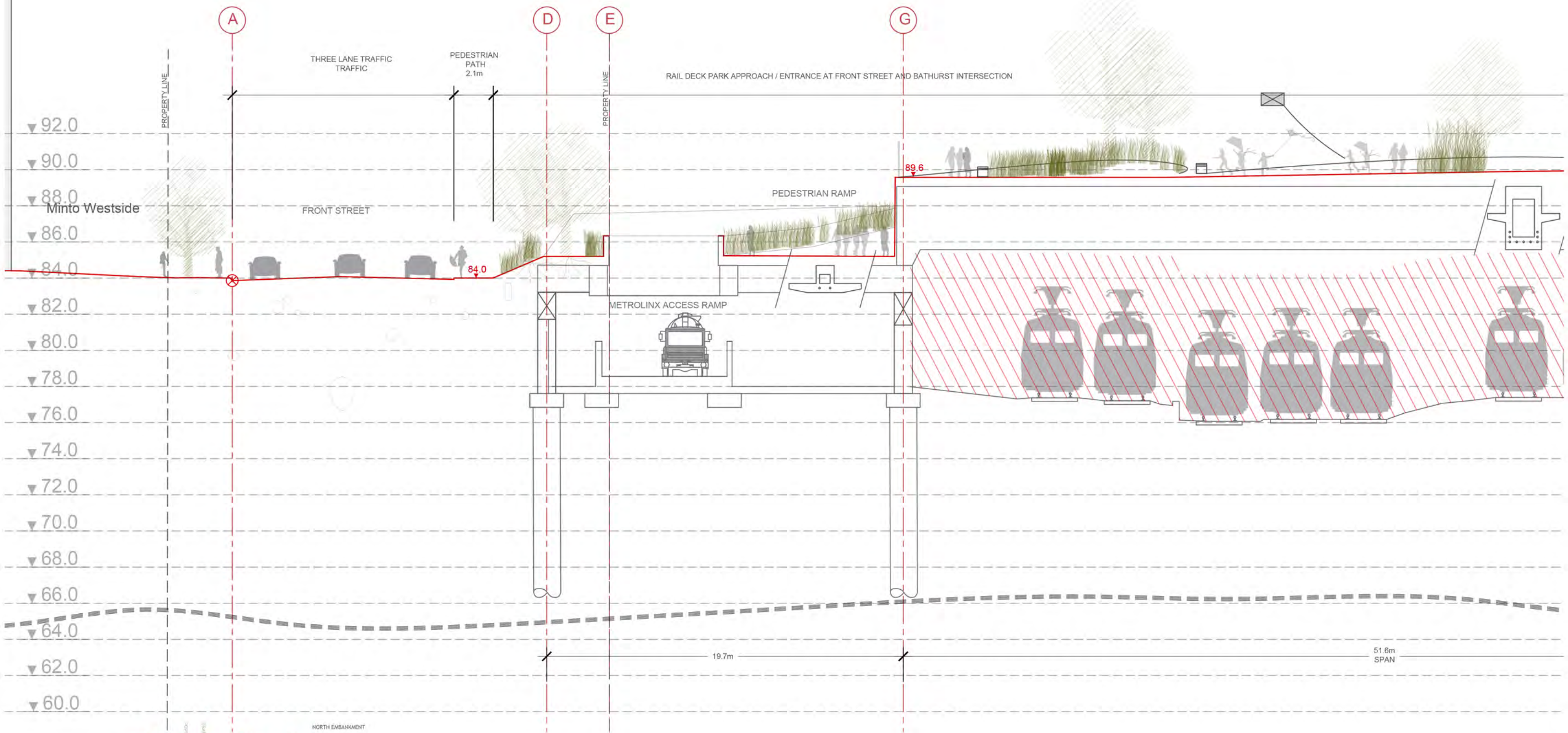




APPENDIX B

Analytical Edge Condition Sections

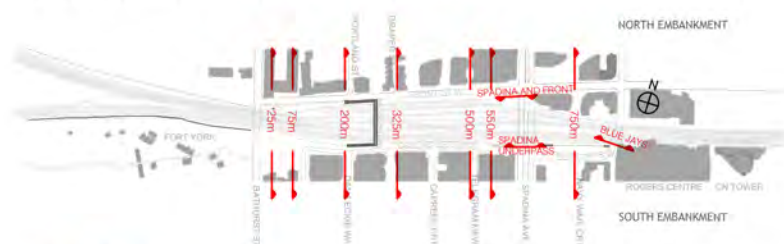
- North Edge @75m Looking East 1:200
- North Edge @200m Looking East 1:200
- North Edge @325m Looking East 1:200
- North Edge @500m Looking East 1:200
- North Edge @550m Looking East 1:200
- South Edge @25M Looking East 1:200
- South Edge @200m Looking East 1:200
- South Edge @325m Looking East 1:200
- South Edge @500m Looking East 1:200
- South Edge @550m Looking East 1:200
- South Edge @750m Looking East 1:200
- Spadina @ line S Looking North 1:200
- East Edge @ line Q Looking North 1:200
- Spadina @ line F Looking South 1:200
- Section Through Deck Build Up 1:100
- Overall Sections Exist / Proposed (8) 1:400



**NORTH EMBANKMENT SECTION
AT GRID LINE 75m LOOKING EAST**
SCALE 1:100 @ 34X22" 1:200 @ 17X11" 30 JUNE 2017

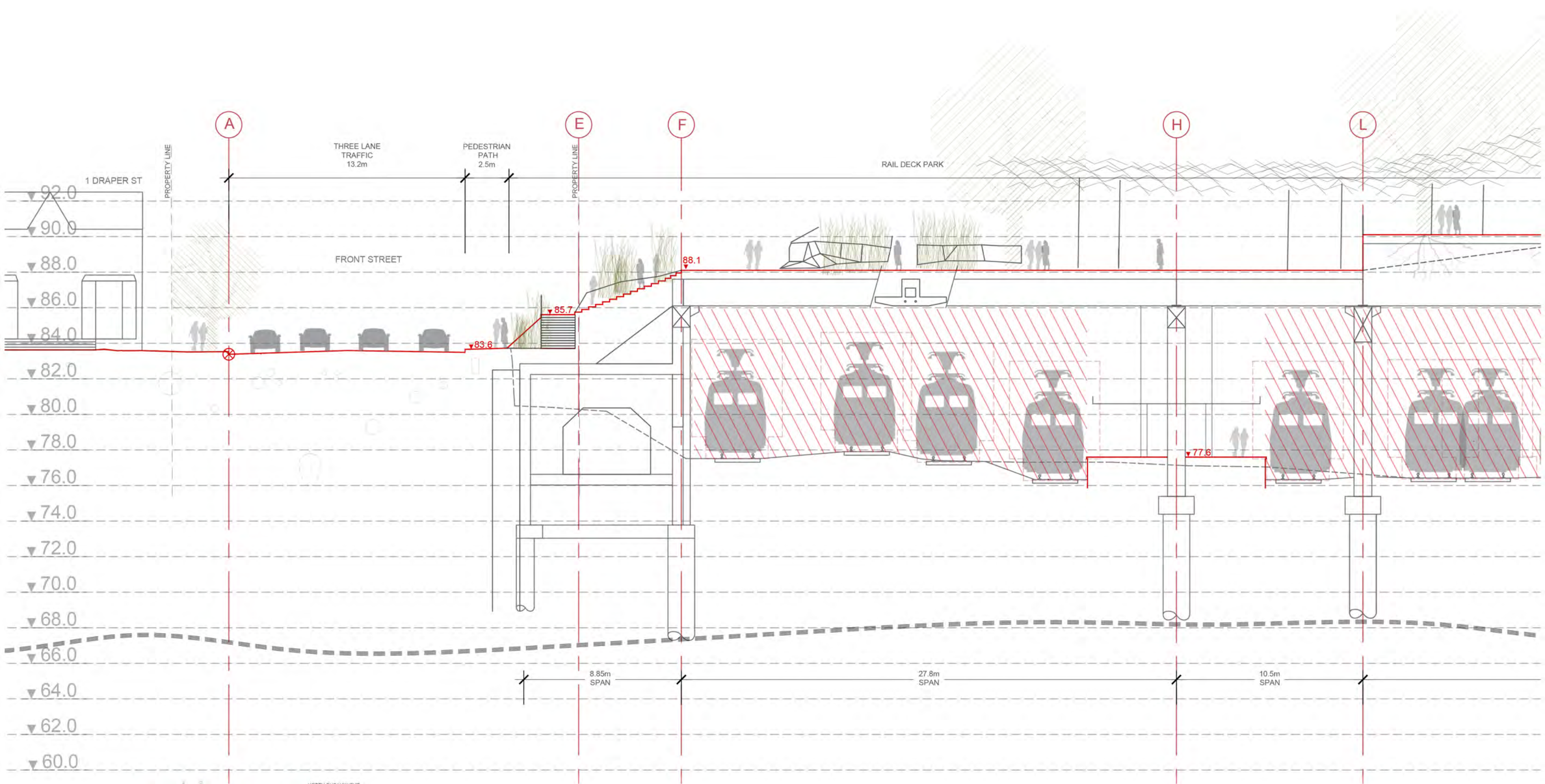
**RAIL
DECK
PARK**

DRAWING NUMBER: RDP-APP-B-09



RAIL DECK PARK

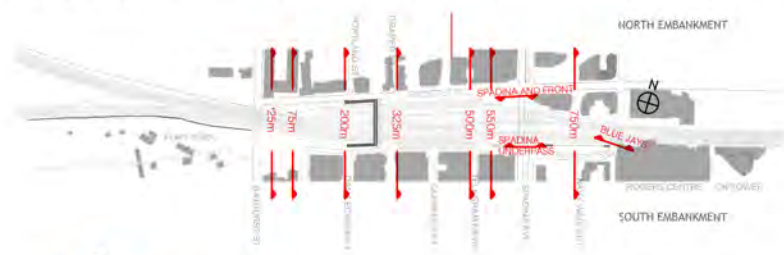
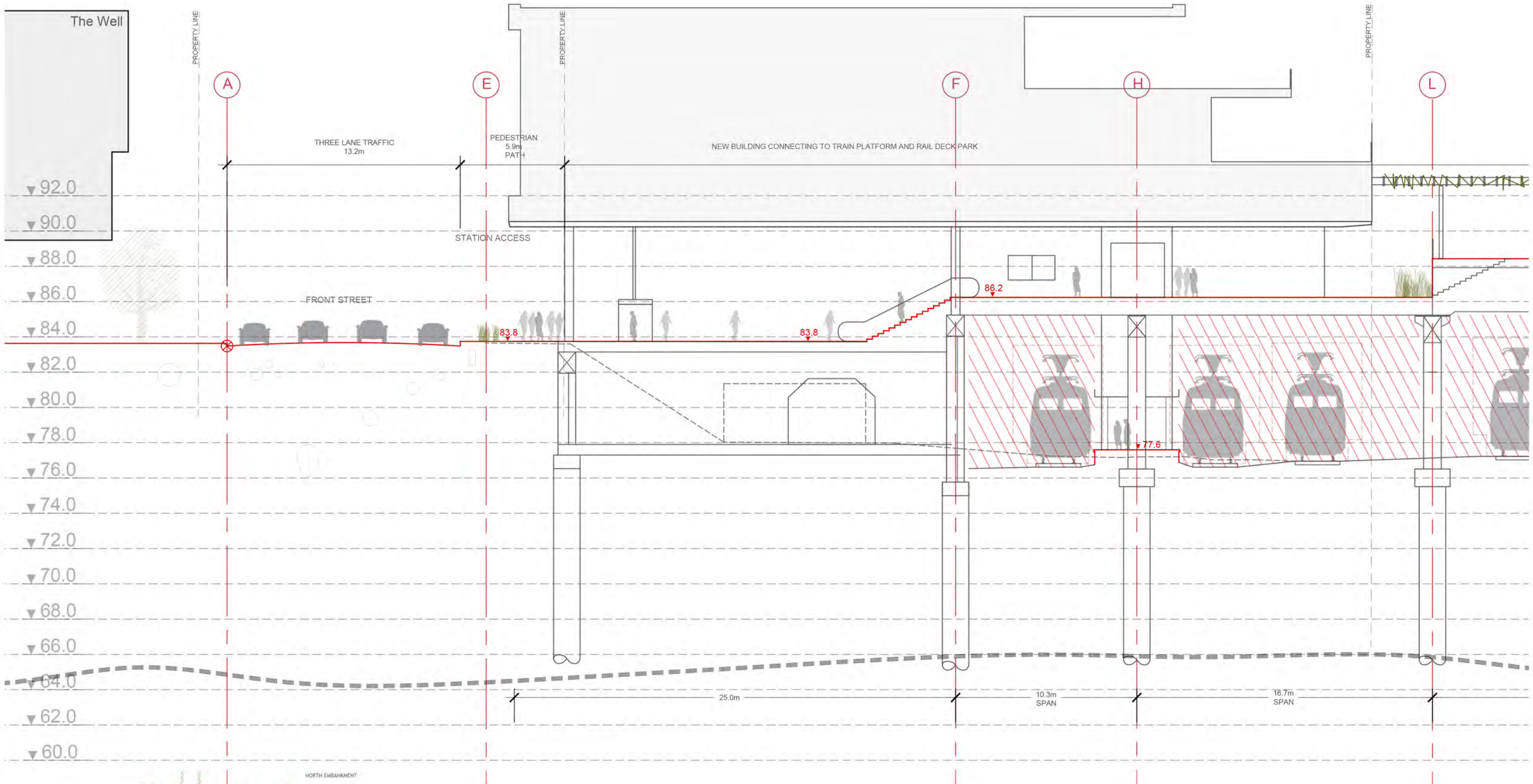
McMILLAN ASSOCIATES ARCHITECTS



**NORTH EMBANKMENT SECTION
AT GRID LINE 325m LOOKING EAST**
SCALE 1:100 @ 34X22" 1:200 @ 17X11" 04 JULY 2017

**RAIL
DECK
PARK**

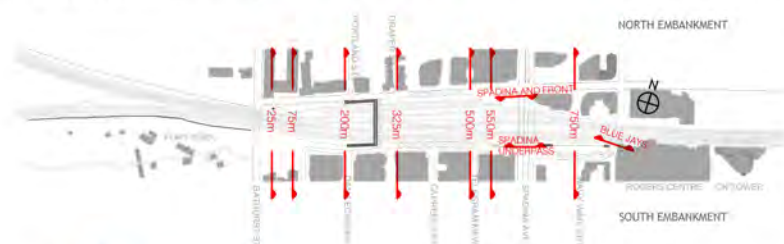
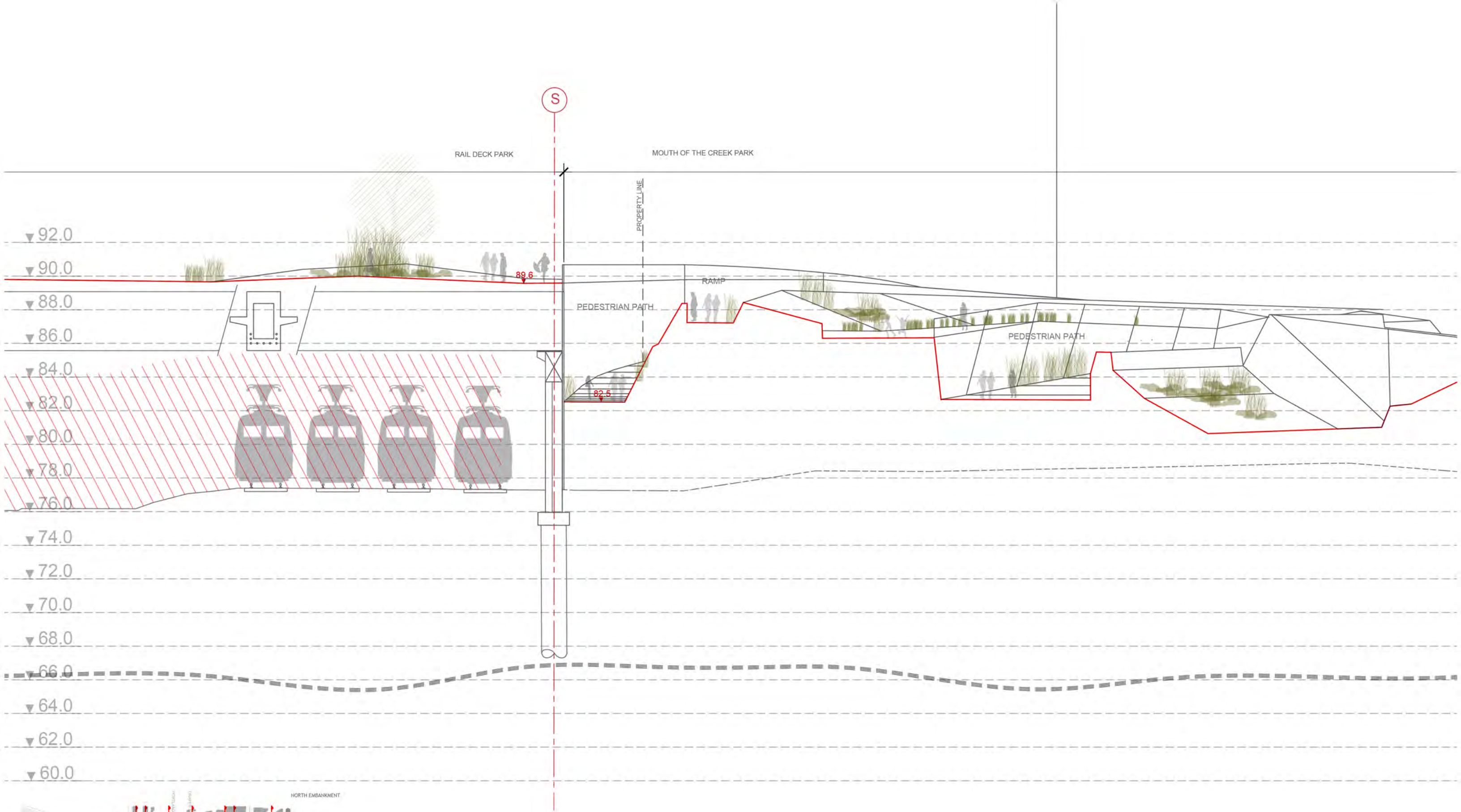
DRAWING NUMBER: RDP-APP-B-11



**NORTH EMBANKMENT SECTION
AT GRID LINE 550m LOOKING EAST**
SCALE 1:100 @ 34"x22" 1:200 @ 17X11" 14 JUNE 2017

**RAIL
DECK
PARK**

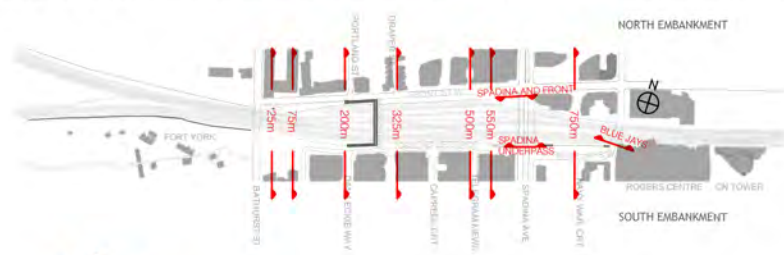
DRAWING NUMBER: RDP-APP-B-13



**SOUTH EMBANKMENT SECTION
AT GRID LINE 25m LOOKING EAST**
SCALE 1:100 @ 34X22" 1:200 @ 17X11" 26 OCTOBER 2017

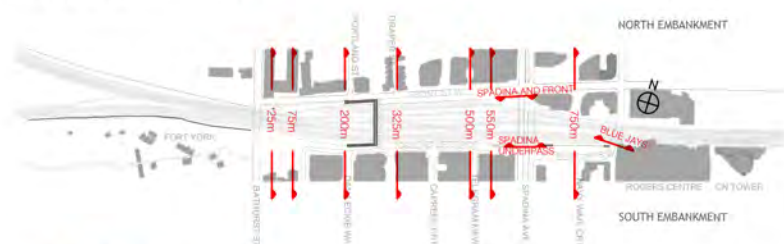
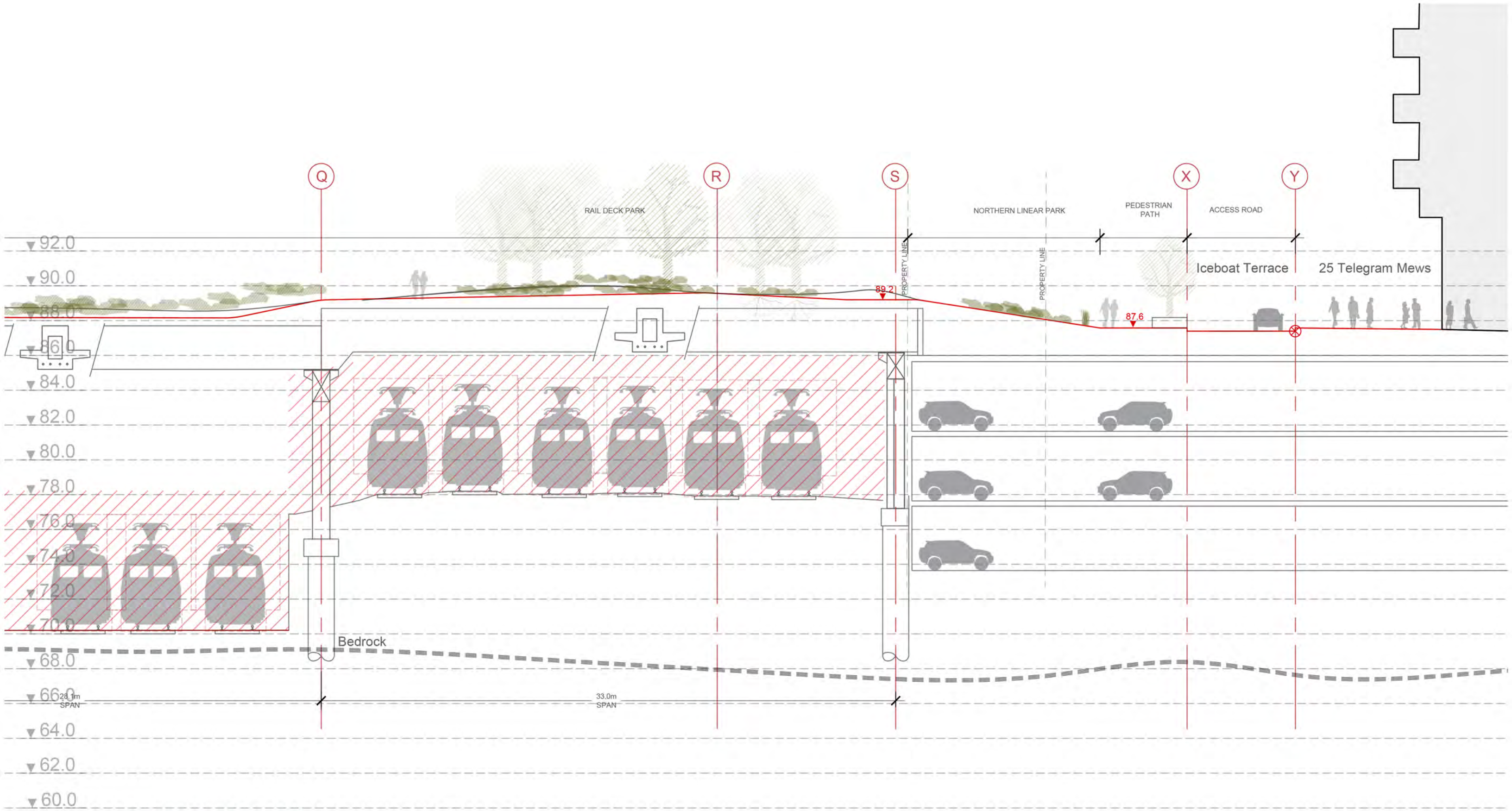
**RAIL
DECK
PARK**

DRAWING NUMBER: RDP-APP-B-22



RAIL DECK PARK

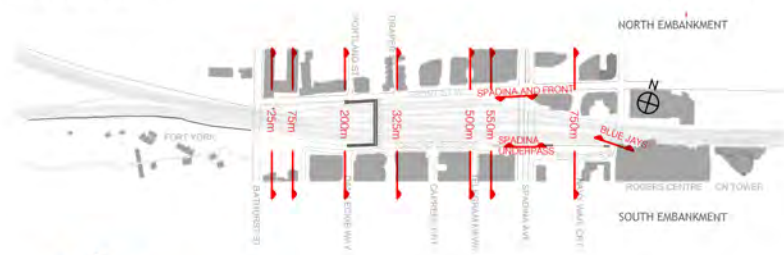
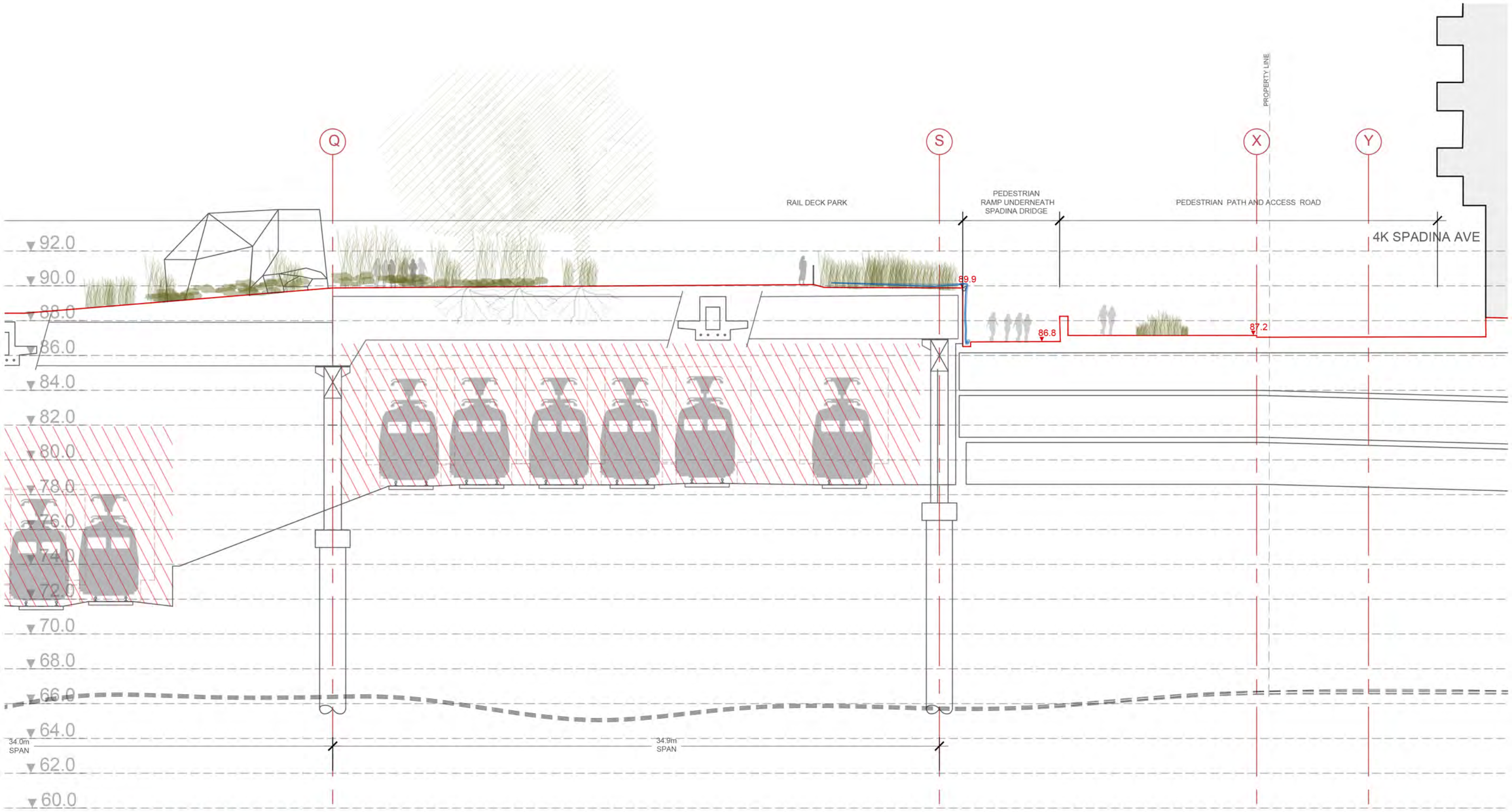
McMILLAN ASSOCIATES ARCHITECTS



**SOUTH EMBANKMENT SECTION
AT GRID LINE 500m LOOKING EAST**
SCALE 1:100 @ 34X22" 1:200 @ 17X11" 14 JUNE 2017

**RAIL
DECK
PARK**

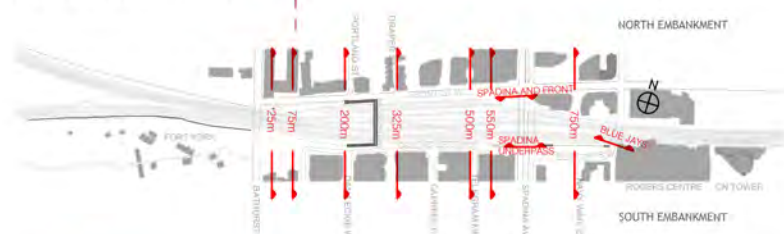
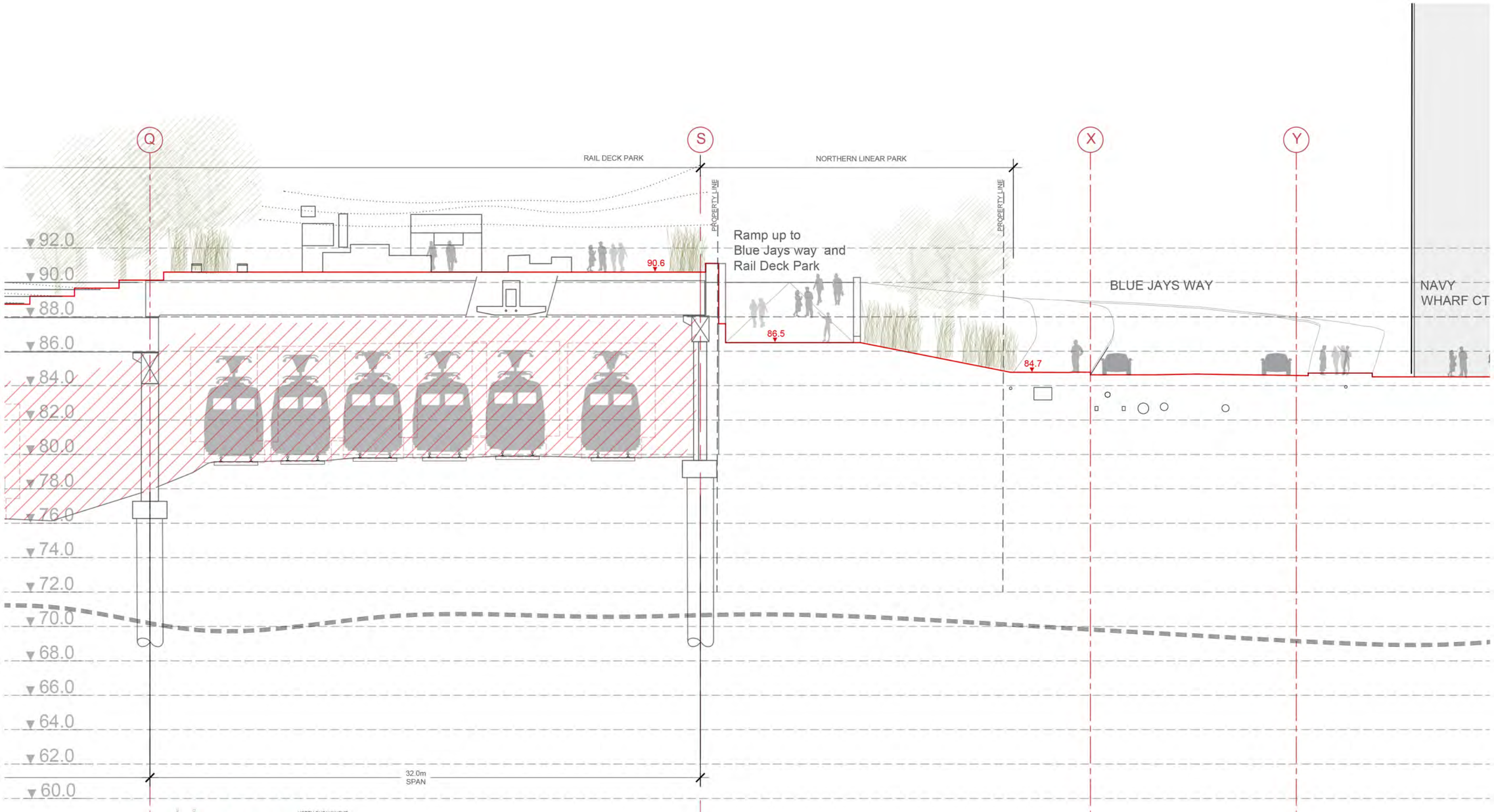
DRAWING NUMBER: RDP-APP-B-16



**SOUTH EMBANKMENT SECTION
AT GRID LINE 550m LOOKING EAST**
SCALE 1:100 @ 34X22" 1:200 @ 17X11" 04 JULY 2017

**RAIL
DECK
PARK**

DRAWING NUMBER: RDP-APP-B-17



**SOUTH EMBANKMENT SECTION
AT GRID LINE 750 LOOKING EAST**
 SCALE 1:100 @ 34X22" 1:200 @ 17X11" 04 JULY 2017

**RAIL
DECK
PARK**

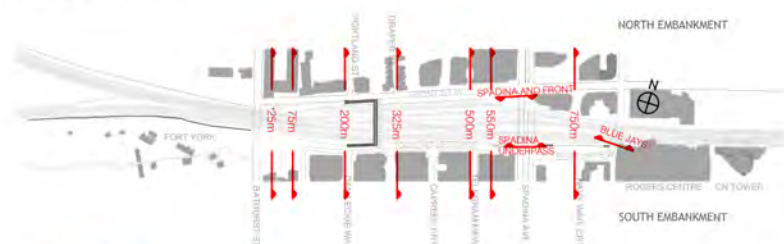
DRAWING NUMBER: RDP-APP-B-18



SCALE 1:100 @ 34X22" 1:200 @ 17X11" 30 JUNE 2017

DRAWING NUMBER: RDP-APP-B-19

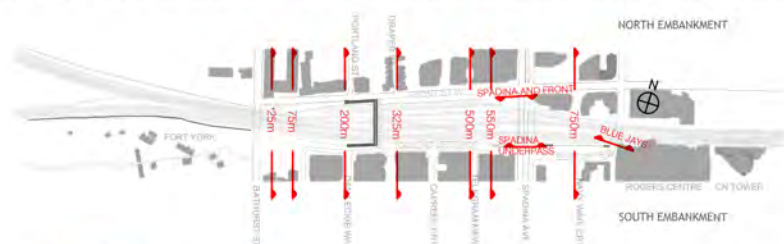
RAIL DECK PARK



SCALE 1:100 @ 34X22" 1:200 @ 17x11" 04 JULY 2017

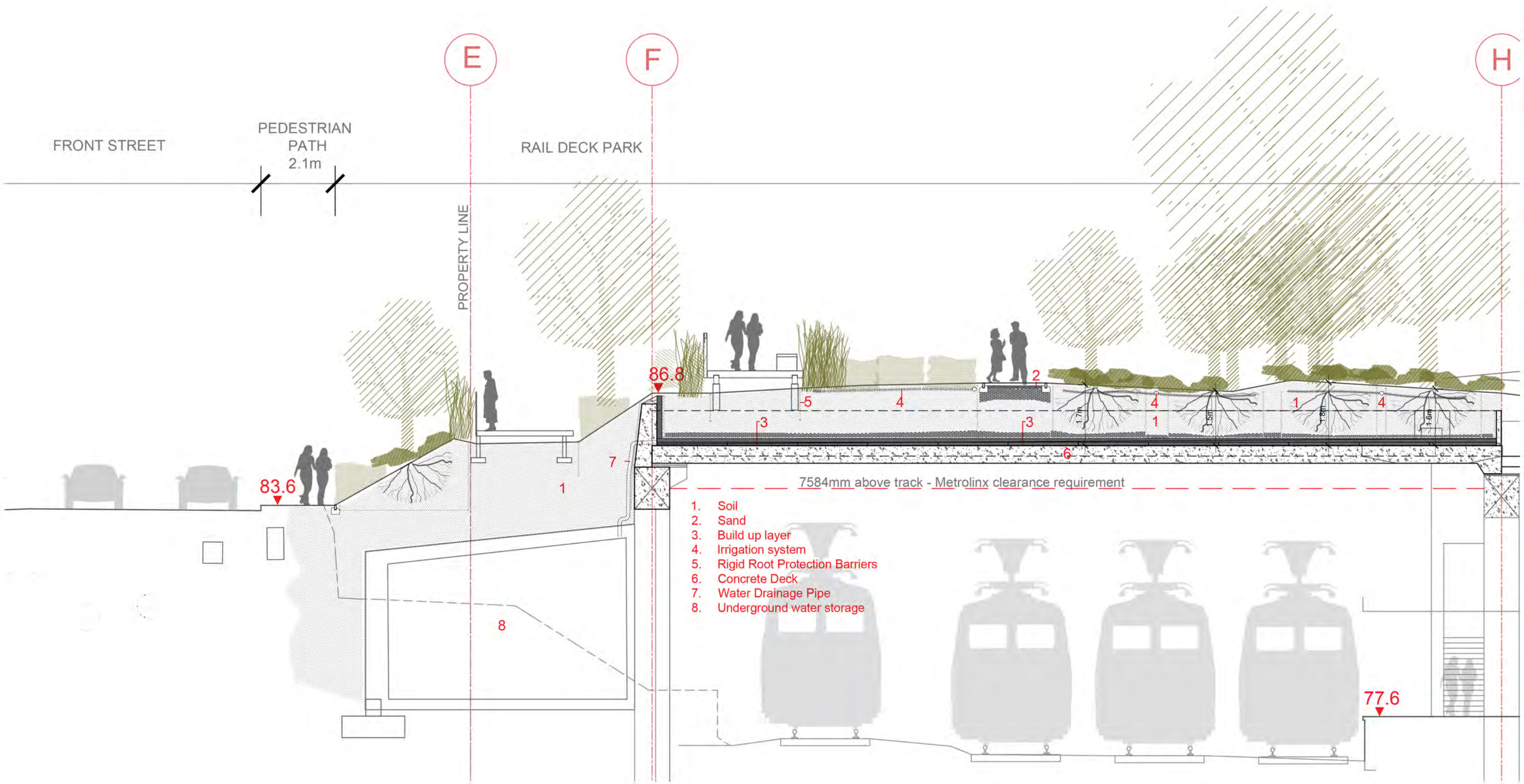
DRAWING NUMBER: RDP-APP-B-20

RAIL DECK PARK



RAIL DECK PARK

McMILLAN ASSOCIATES ARCHITECTS

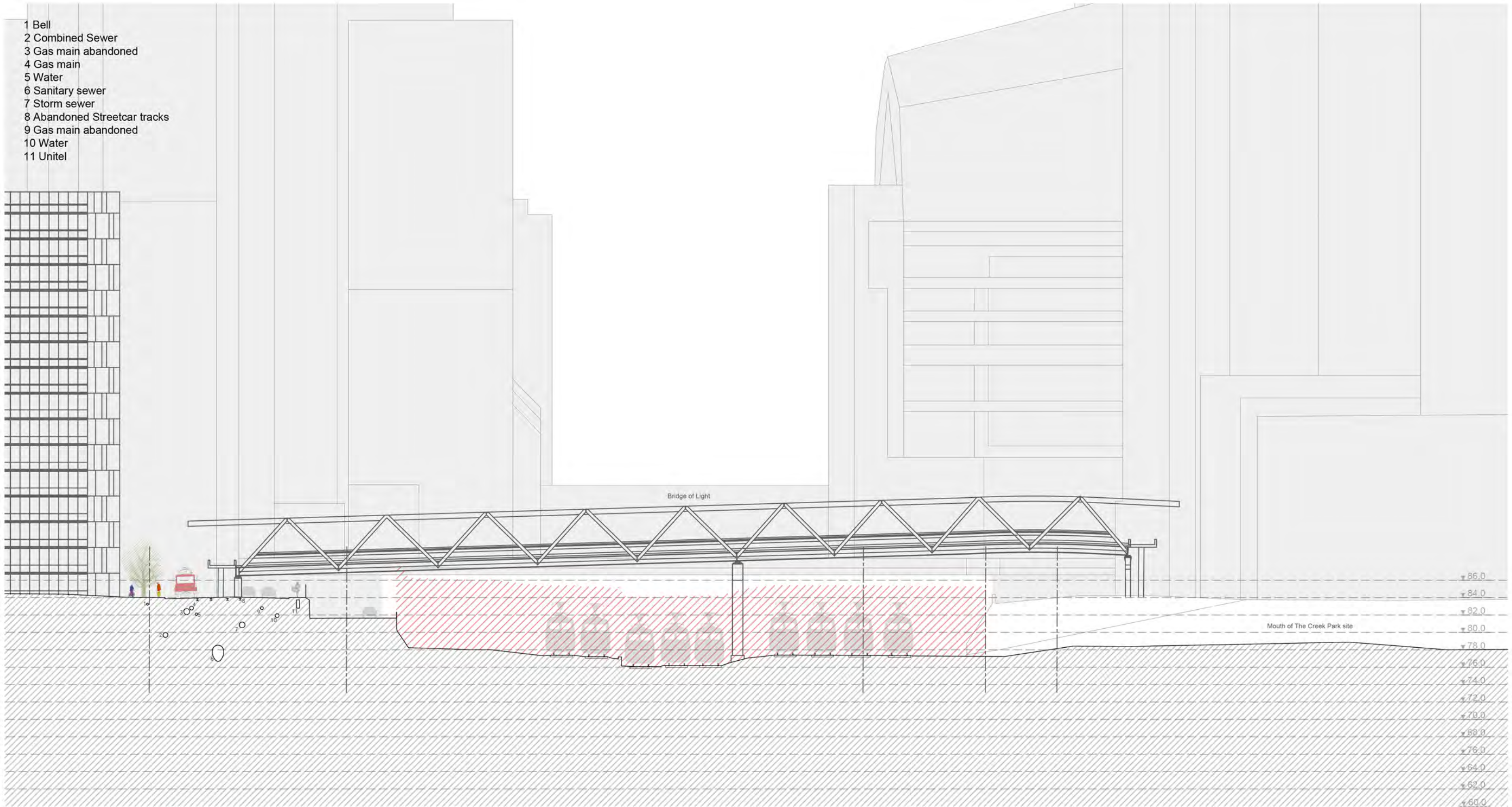


SECTION THROUGH DECK BUILD UP
SCALE 1:50 @ 34X22" 1:100 @ 17X11" 26 OCTOBER 2017

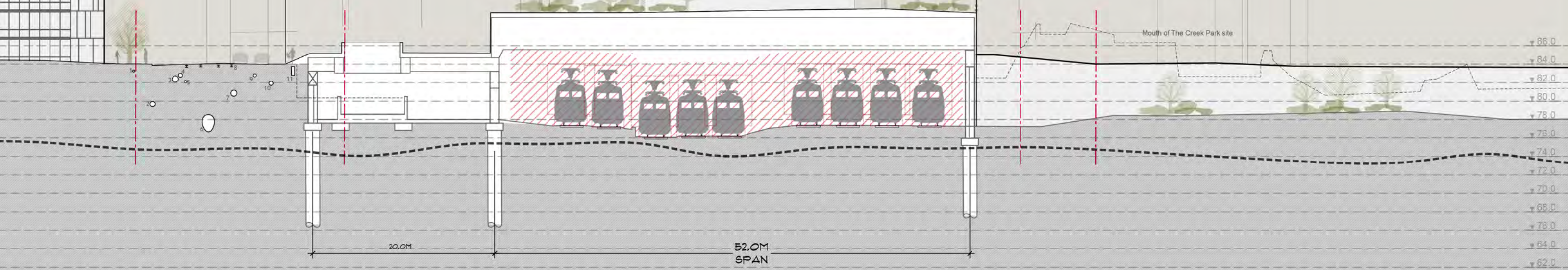
RAIL
DECK
PARK

DRAWING NUMBER: RDP-APP-B-22

- 1 Bell
- 2 Combined Sewer
- 3 Gas main abandoned
- 4 Gas main
- 5 Water
- 6 Sanitary sewer
- 7 Storm sewer
- 8 Abandoned Streetcar tracks
- 9 Gas main abandoned
- 10 Water
- 11 Unitel



- [illegible]



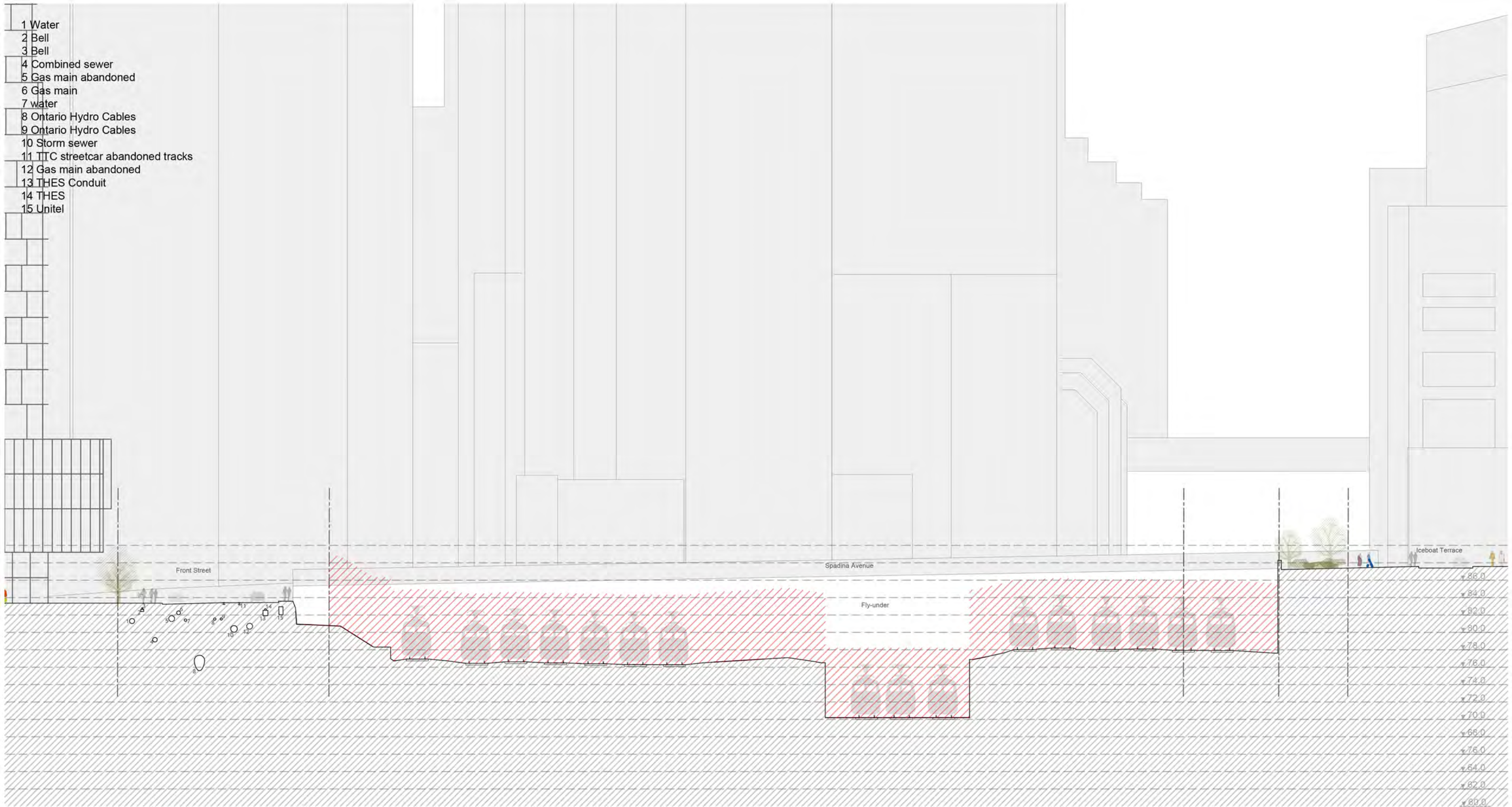
The map illustrates the Fort Word Historic District, showing the layout of the historic buildings and the proposed sections for the new development. The map includes labels for 'NORTH EMBANKMENT', 'SOUTH EMBANKMENT', 'FORT WORD', 'ROGER CENTER', 'CONTOUR', and 'SECTION A', 'SECTION B', 'SECTION C'. A north arrow is also present.

SCALE 1:200 @ 34X22" 1:400 @ 17X11" 17 MAY 2017



DRAWING NUMBER: RDP-APP-B-30

McMILLAN ASSOCIATES ARCHITECTS



EXISTING SECTION B-B
SCALE 1:200 @ 34X22" 1:400 @ 17X11" 11 APRIL 2017



DRAWING NUMBER: RDP-APP-B-27

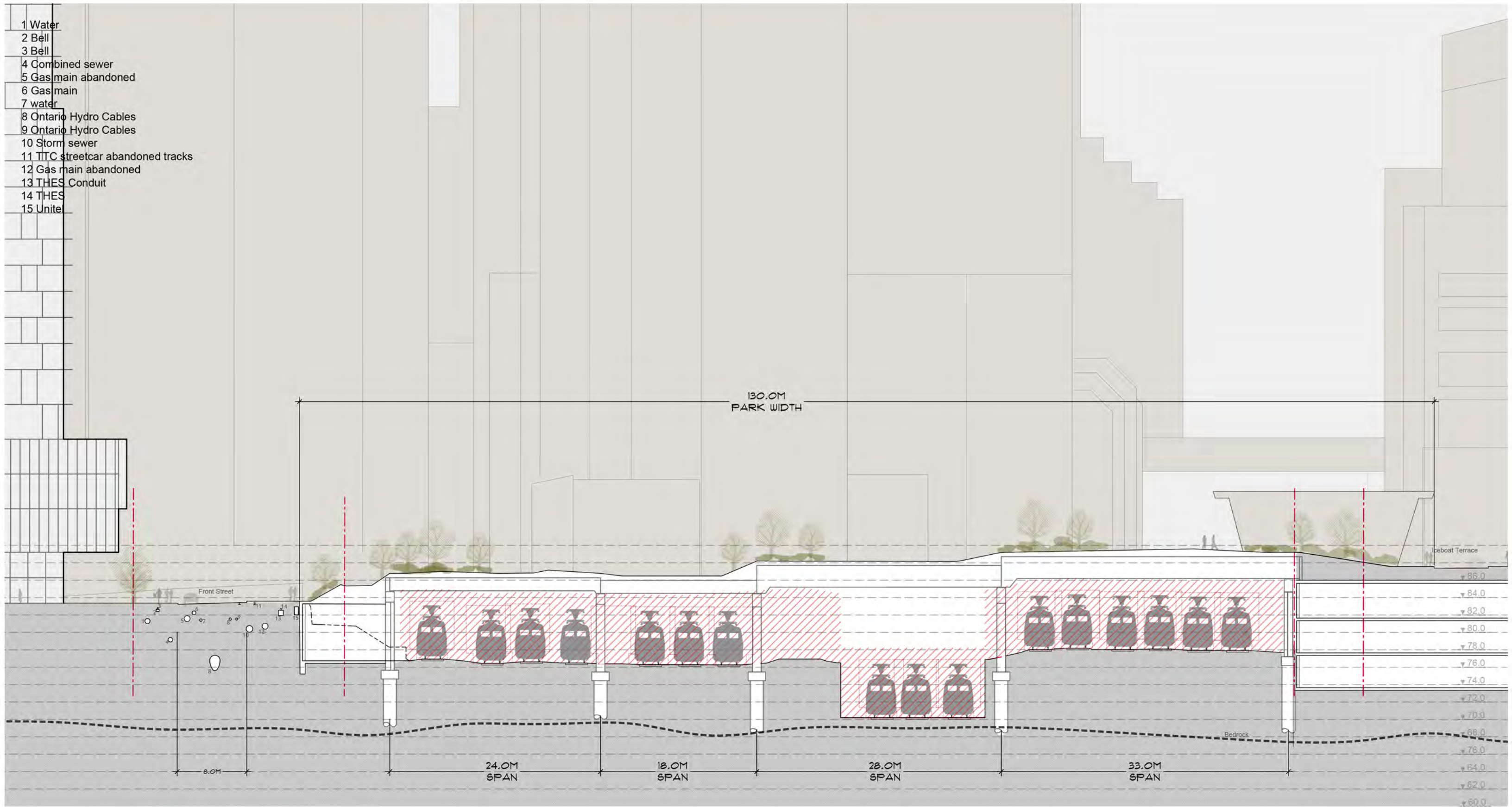


BUILD
TORONTO

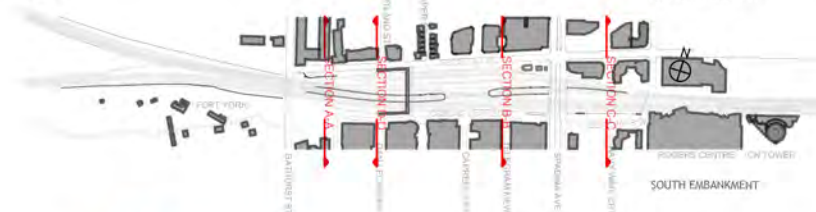


McMILLAN ASSOCIATES ARCHITECTS

RAIL
DECK
PARK



KEY



PRELIMINARY SECTION B-B
SCALE 1:200 @ 34X22" 1:400 @ 17X11" 17 MAY 2017



DRAWING NUMBER: RDP-APP-B-31



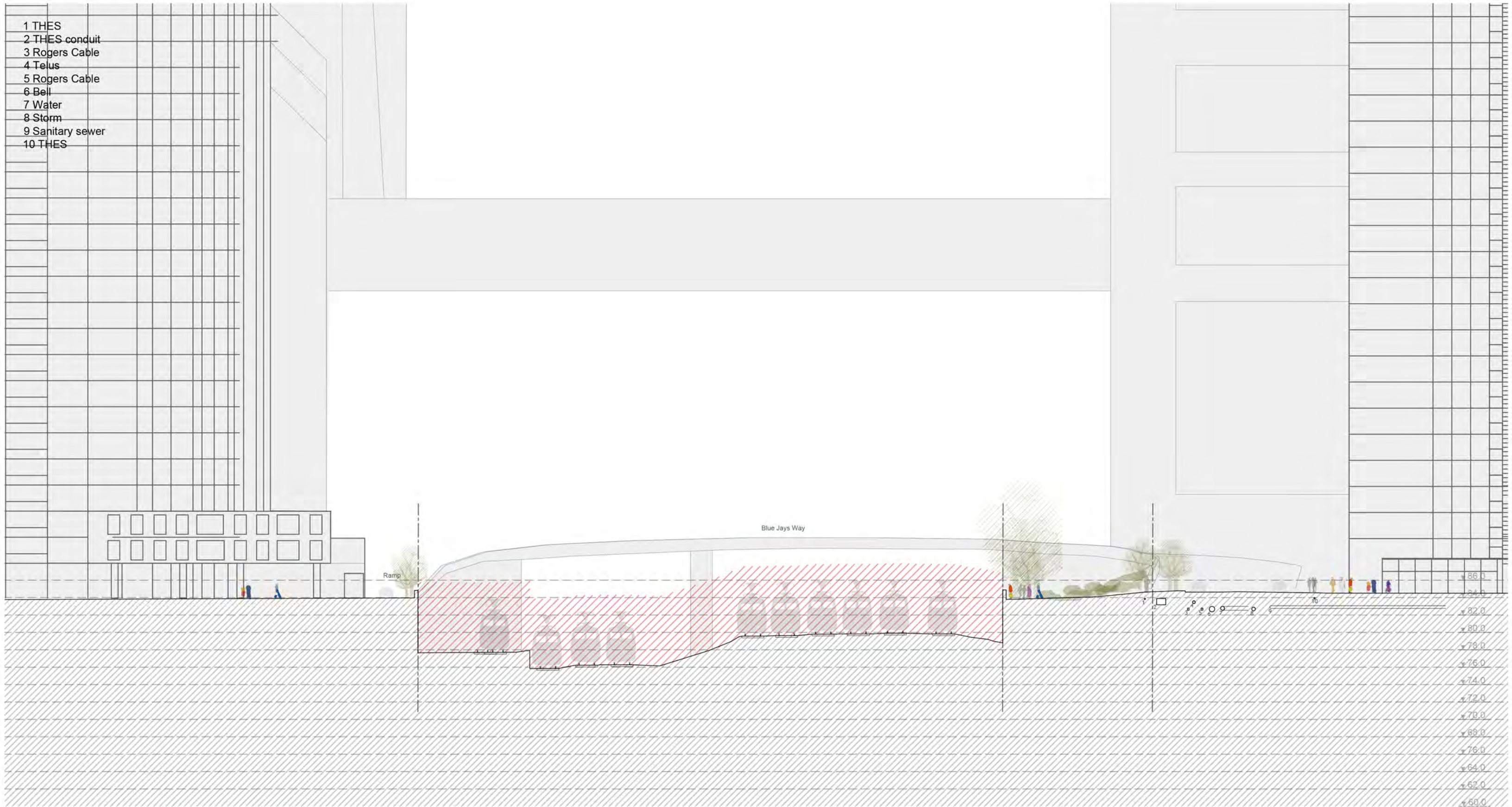
BUILD
TORONTO



McMILLAN ASSOCIATES ARCHITECTS

RAIL
DECK
PARK

- 1 THES
- 2 THES conduit
- 3 Rogers Cable
- 4 Telus
- 5 Rogers Cable
- 6 Bell
- 7 Water
- 8 Storm
- 9 Sanitary sewer
- 10 THES



KEY



EXISTING SECTION C-C
 SCALE 1:200 @ 34X22" 1:400 @ 17X11" 11 APRIL 2017



DRAWING NUMBER: RDP-APP-B-28



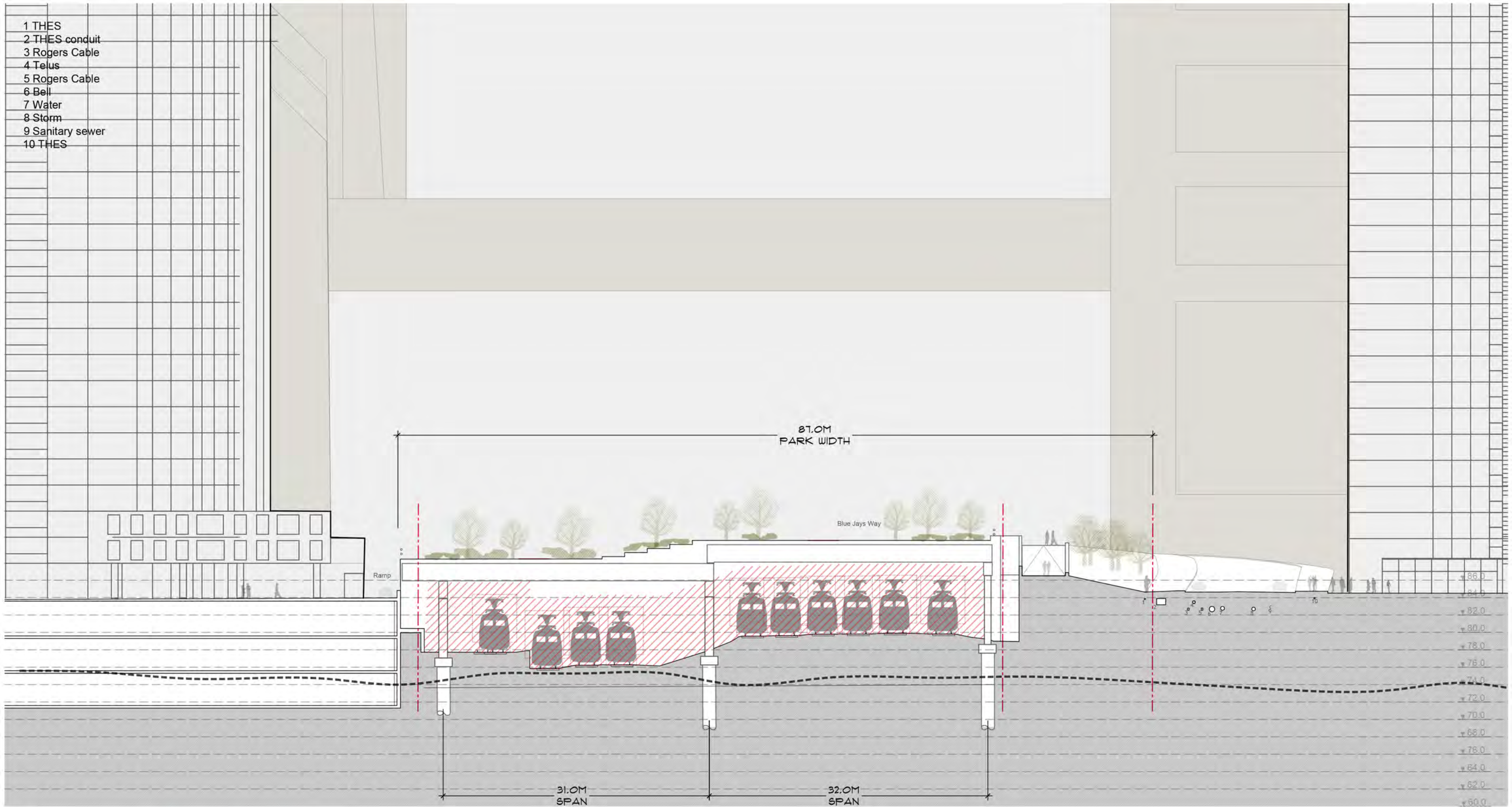
BUILD
TORONTO



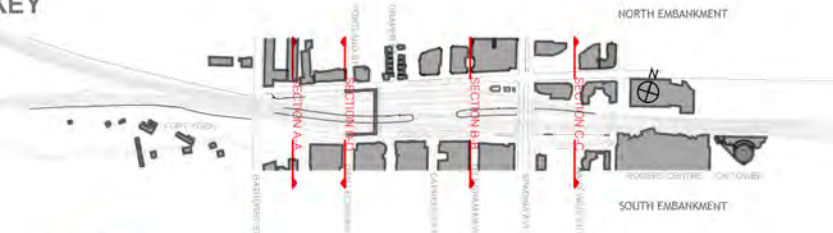
McMILLAN ASSOCIATES ARCHITECTS

RAIL
DECK
PARK

- 1 THES
- 2 THES conduit
- 3 Rogers Cable
- 4 Telus
- 5 Rogers Cable
- 6 Bell
- 7 Water
- 8 Storm
- 9 Sanitary sewer
- 10 THES



KEY



PRELIMINARY SECTION C-C
SCALE 1:200 @ 34X22" 1:400 @ 17X11" 17 MAY 2017



DRAWING NUMBER: RDP-APP-B-32

RAIL
DECK
PARK

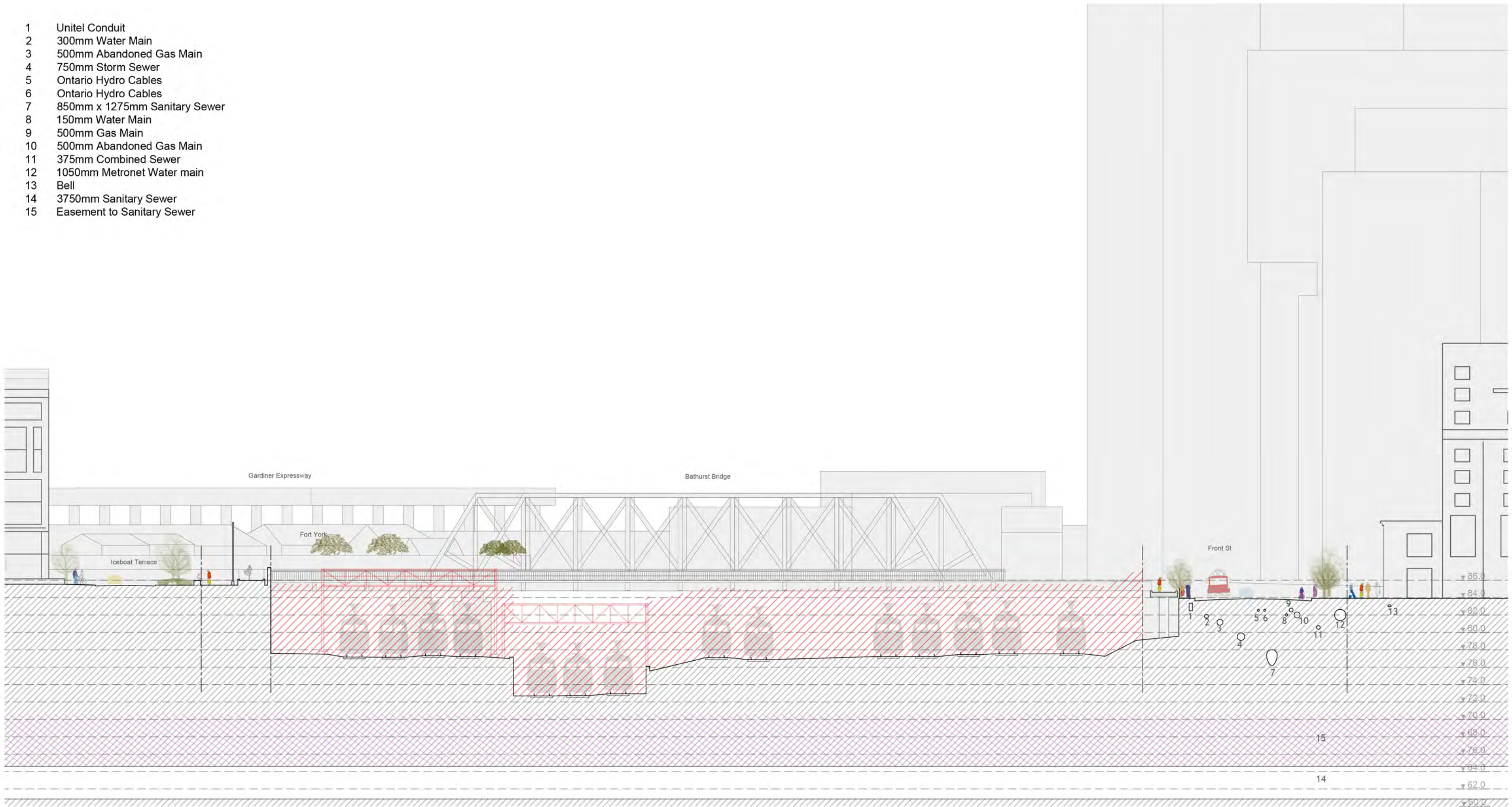


BUILD
TORONTO

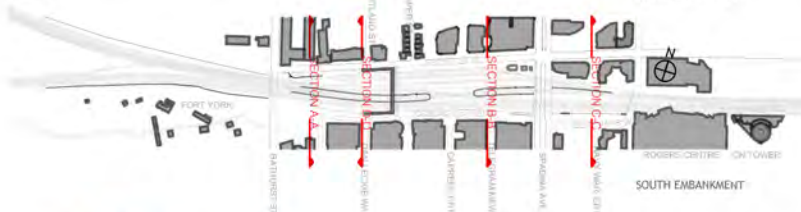


McMILLAN ASSOCIATES ARCHITECTS

- 1 Unitel Conduit
- 2 300mm Water Main
- 3 500mm Abandoned Gas Main
- 4 750mm Storm Sewer
- 5 Ontario Hydro Cables
- 6 Ontario Hydro Cables
- 7 850mm x 1275mm Sanitary Sewer
- 8 150mm Water Main
- 9 500mm Gas Main
- 10 500mm Abandoned Gas Main
- 11 375mm Combined Sewer
- 12 1050mm Metronet Water main
- 13 Bell
- 14 3750mm Sanitary Sewer
- 15 Easement to Sanitary Sewer



KEY



EXISTING SECTION D-D
SCALE 1:200 @ 34X22" 1:400 @ 17X11" 11 APRIL 2017



DRAWING NUMBER: RDP-APP-B-29



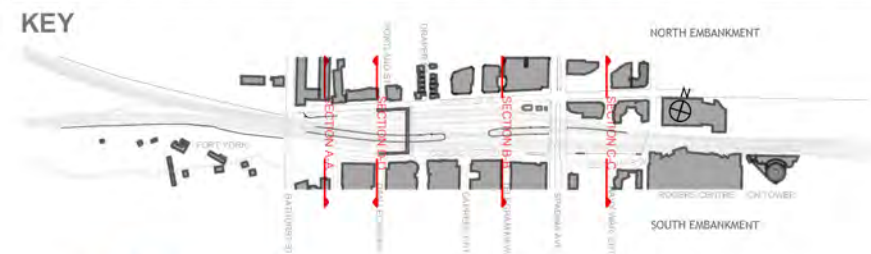
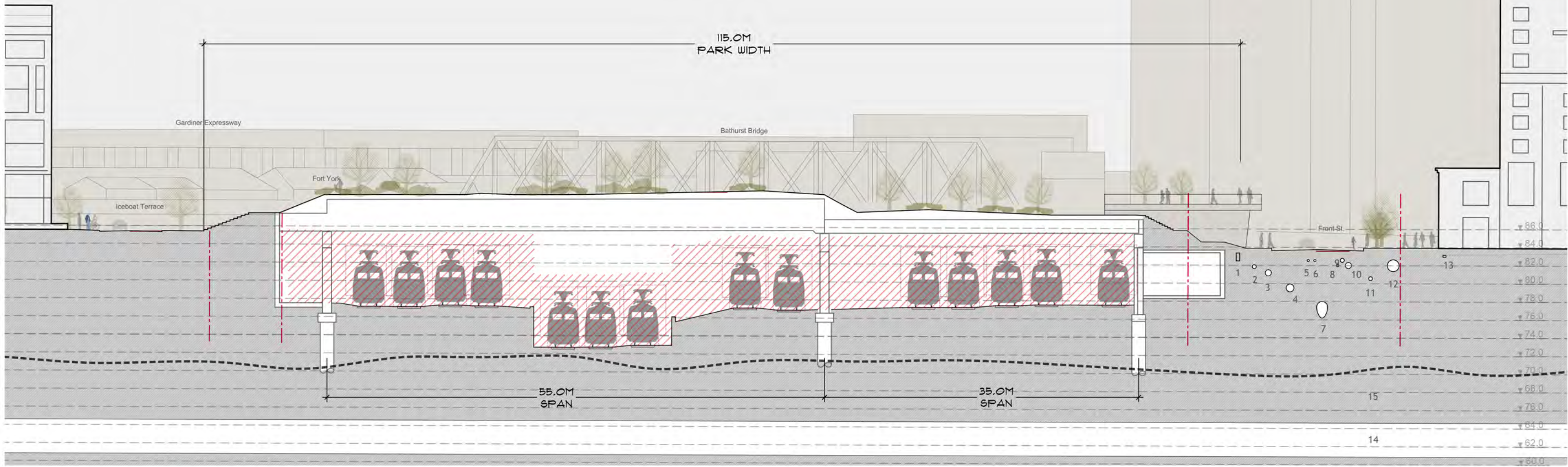
BUILD
TORONTO



McMILLAN ASSOCIATES ARCHITECTS

RAIL
DECK
PARK

- | | |
|----|-------------------------------|
| 1 | Unitel Conduit |
| 2 | 300mm Water Main |
| 3 | 500mm Abandoned Gas Main |
| 4 | 750mm Storm Sewer |
| 5 | Ontario Hydro Cables |
| 6 | Ontario Hydro Cables |
| 7 | 850mm x 1275mm Sanitary Sewer |
| 8 | 150mm Water Main |
| 9 | 500mm Gas Main |
| 10 | 500mm Abandoned Gas Main |
| 11 | 375mm Combined Sewer |
| 12 | 1050mm Metronet Water main |
| 13 | Bell |
| 14 | 3750mm Sanitary Sewer |
| 15 | Easement to Sanitary Sewer |



**BUILD
TORONTO**



PRELIMINARY SECTION D-D
SCALE 1:200 @ 34X22" 1:400 @ 17X11" 17 MAY 2017

metres 4 8 12 16 20

DRAWING NUMBER: RDP-APP-B-33

McMILLAN ASSOCIATES ARCHITECTS

RAIL DECK PARK



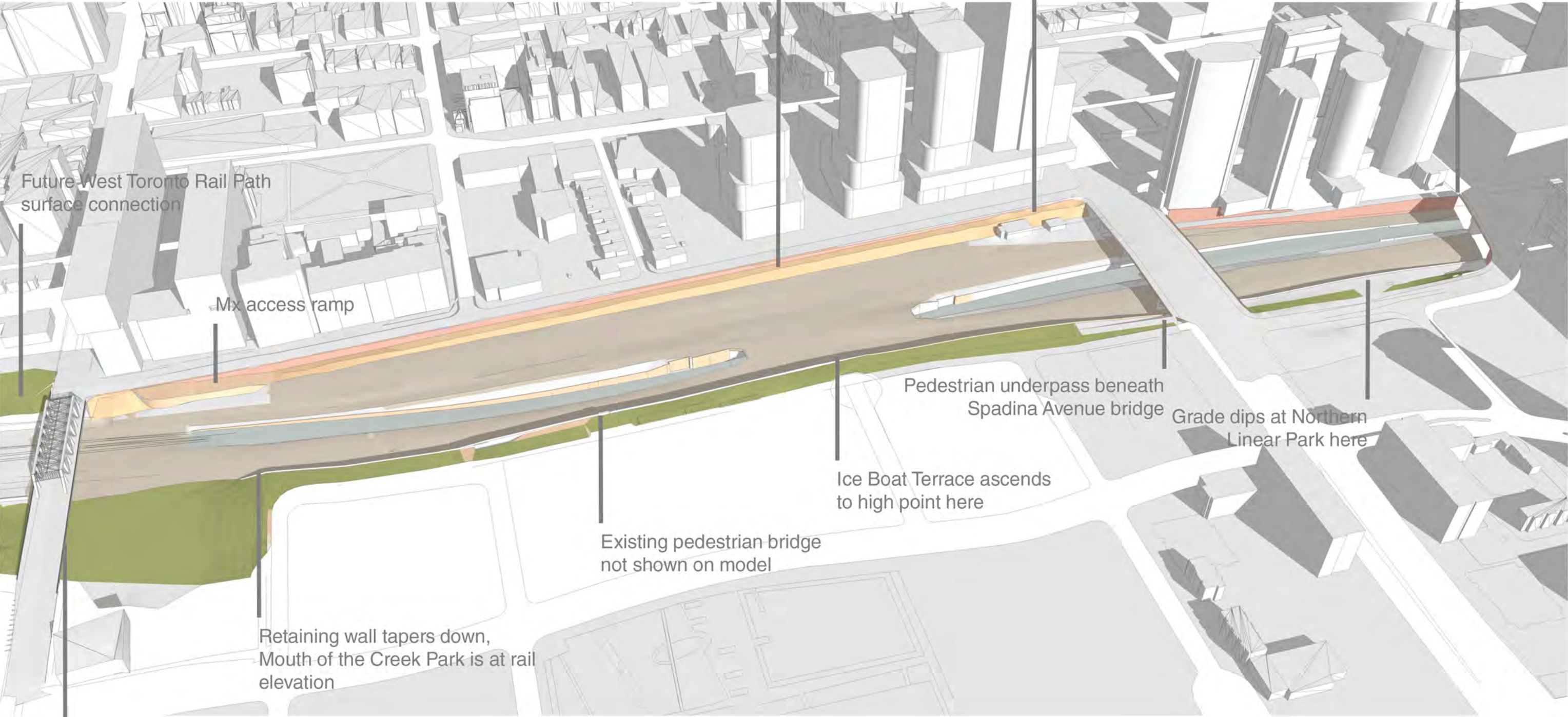
APPENDIX C

3-Dimensional Model Views

- Reference Concept ~ Existing Condition
- Reference Concept ~ Foundations & Structure
- Reference Concept ~ Deck & Park
- Construction Sequencing ~ View from Bathurst
- Construction Sequencing ~ View from CN Tower

REFERENCE CONCEPT

EXISTING CONDITION



Future West Toronto Rail Path
surface connection

Mx access ramp

Embankment along Front Street

Mx transformer and
maintenance area

maintain Mx access ramp

Pedestrian underpass beneath
Spadina Avenue bridge

Grade dips at Northern
Linear Park here

Ice Boat Terrace ascends
to high point here

Existing pedestrian bridge
not shown on model

Retaining wall tapers down,
Mouth of the Creek Park is at rail
elevation

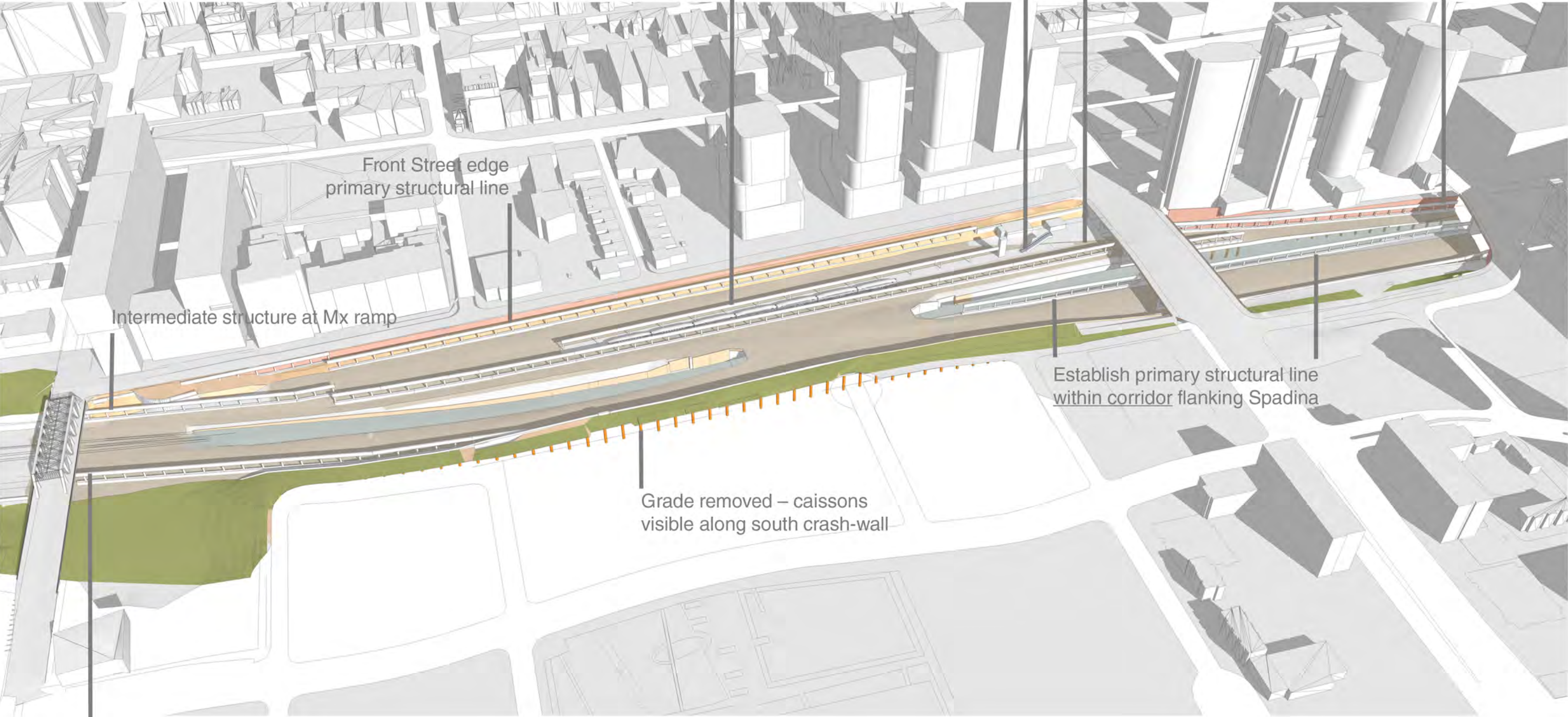
Connection between Fort York
and Mouth of the Creek Park
beneath Bathurst Street bridge

DRAWING NUMBER
RDP-APP-C-01

RAIL
DECK
PARK

REFERENCE CONCEPT

FOUNDATIONS + STRUCTURE



Mx RER platform(s) provide opportunity for added support

RER access from above

Primary structural line between Yard + Corridor

Establish primary structural line parallel to Mx access ramp

Front Street edge primary structural line

Intermediate structure at Mx ramp

Establish primary structural line within corridor flanking Spadina

Grade removed – caissons visible along south crash-wall

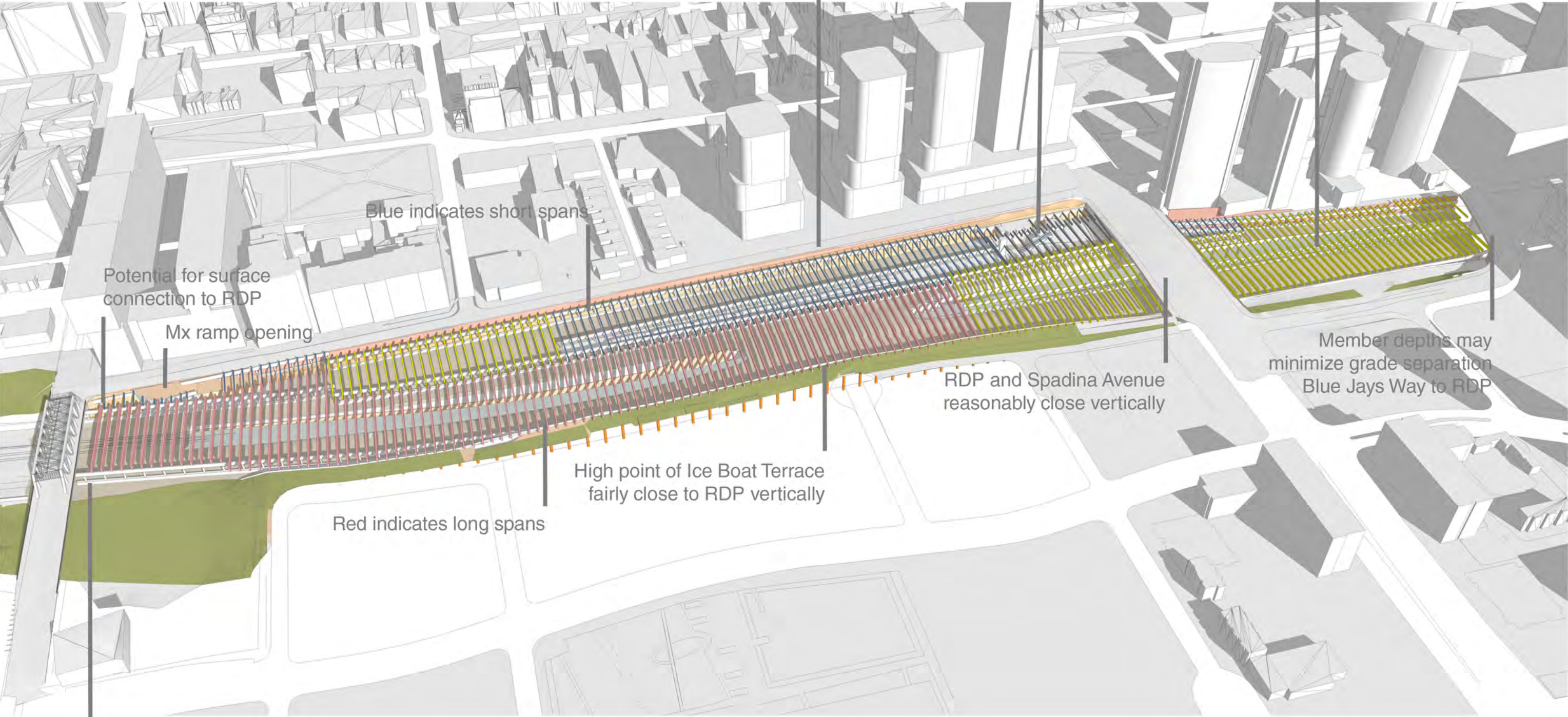
Caissons + primary structure continue to or near Bathurst

DRAWING NUMBER
RDP-APP-C-02

RAIL
DECK
PARK

REFERENCE CONCEPT

DECK + PARK



Opportunity for reasonably close grades and gradual transitions along much of Front Street

Mx property in context of O/A RDP provides opportunity for RER and RDP access from grade

Yellow indicates intermediate spans

Blue indicates short spans

Potential for surface connection to RDP

Mx ramp opening

RDP and Spadina Avenue reasonably close vertically

Member depths may minimize grade separation Blue Jays Way to RDP

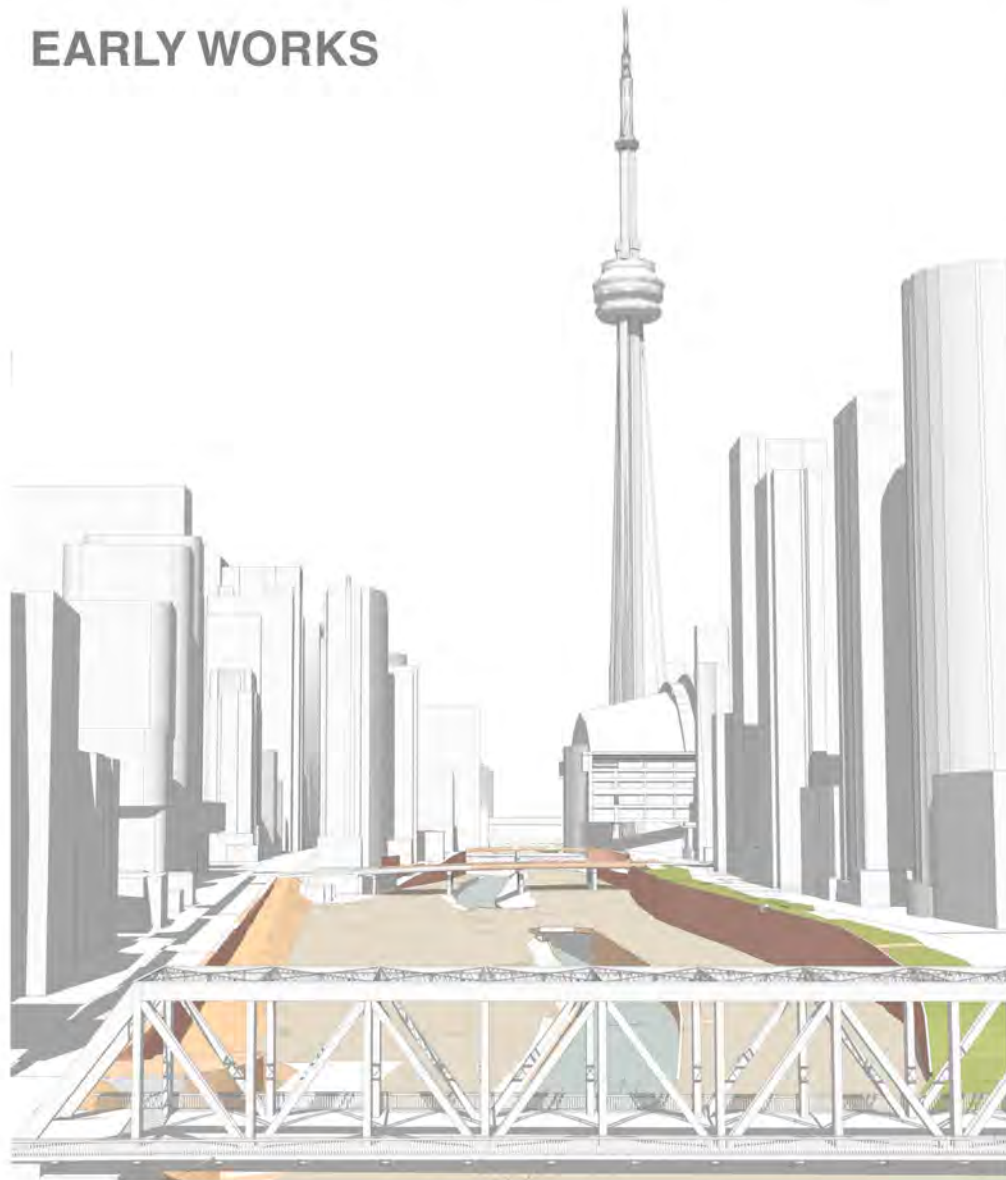
High point of Ice Boat Terrace fairly close to RDP vertically

Red indicates long spans

Grade separation between MotCP + RDP is extreme

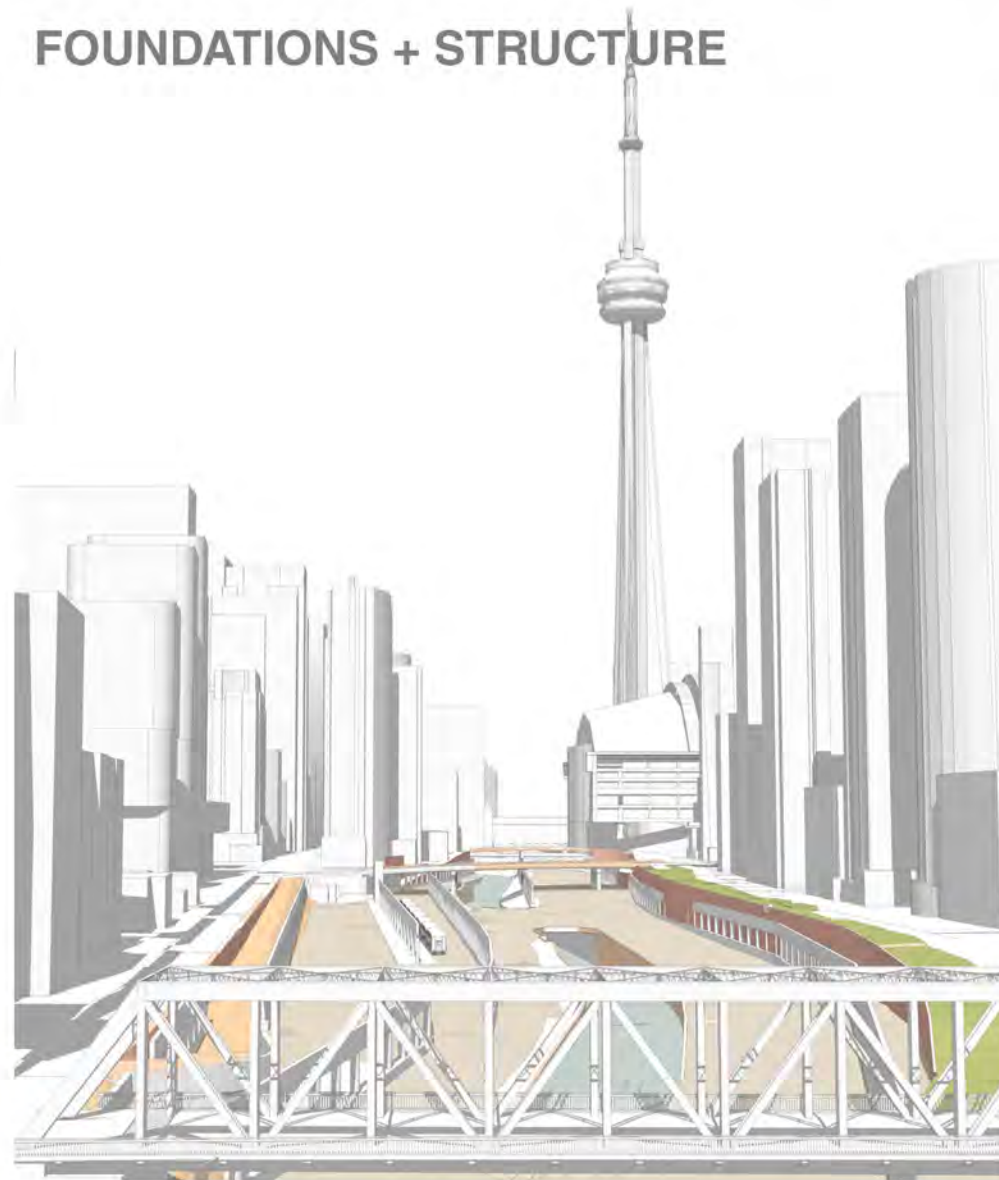
CONSTRUCTION SEQUENCE

EARLY WORKS



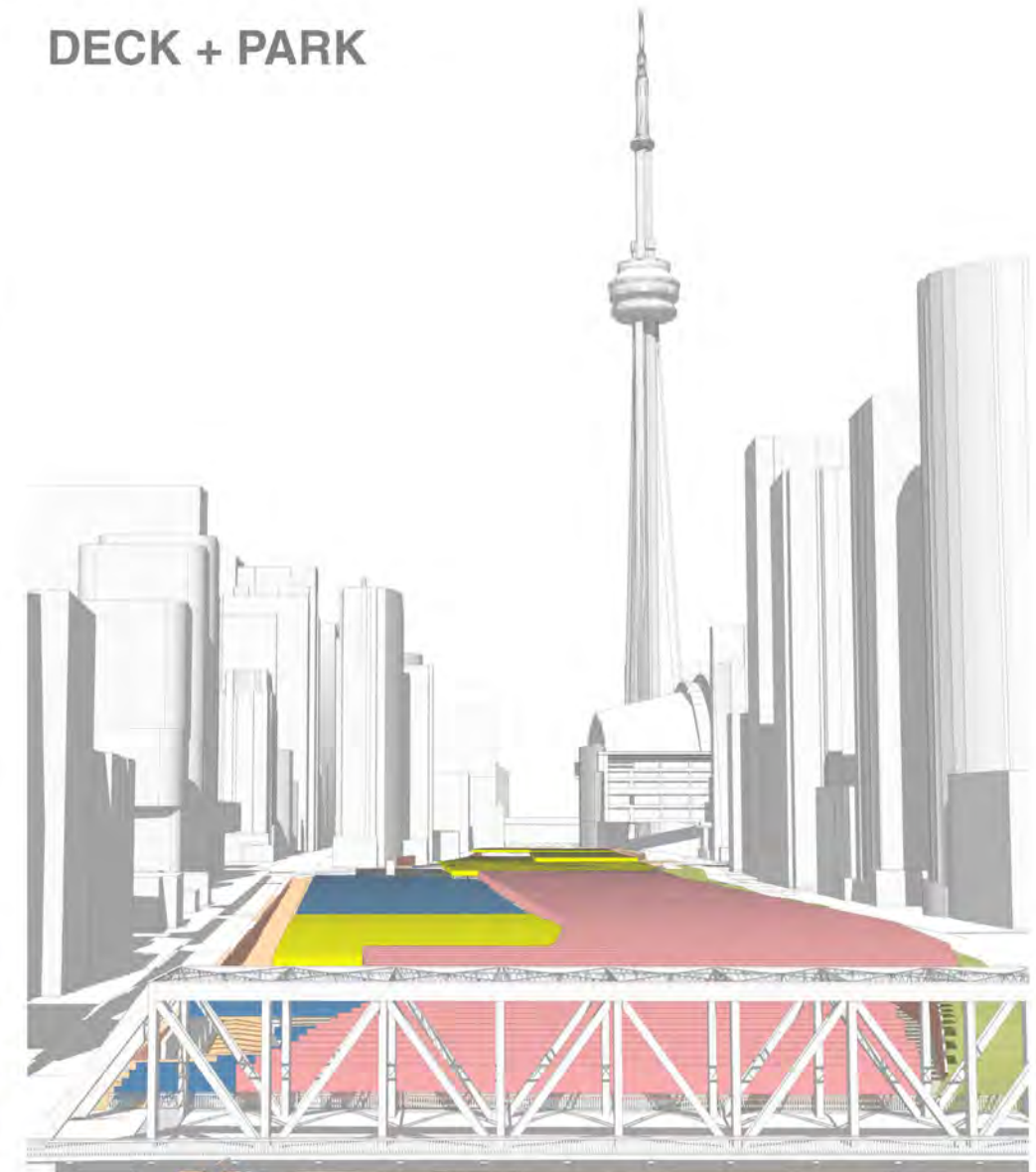
- Utility Relocates
Track Relocates
Demolition
Site Remediation
Temporary Works
- Temporary services or relocates
 - Overhead protection for trains and rail personnel
 - Creation of Laydown Areas for construction
 - Creation of construction access points
 - Temporary work for Phasing purposes

FOUNDATIONS + STRUCTURE



- Substructure:
- Foundations
 - Bulk Excavation
 - Special Conditions
- Site Development:
- Mechanical Site Services
 - Electrical Site Services
 - Ancillary Work
- Demolition & Alterations
- Sitework:
- Site Development
 - Mechanical Site Services
 - Electrical Site Services
 - Ancillary Work
 - Demolition & Alterations

DECK + PARK



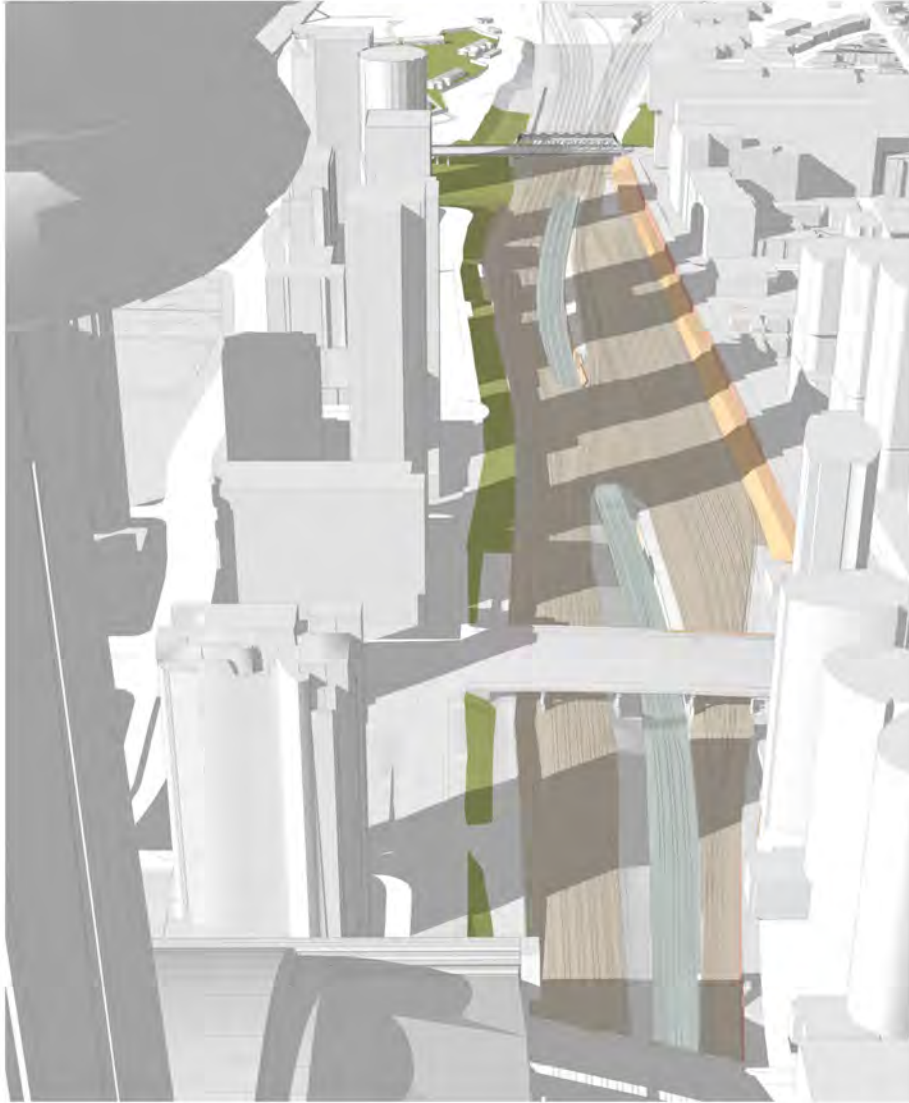
- Structure:
- Suspended Deck Construction
 - Roof Construction
- Mechanical:
- Plumbing & Drainage (Track Level and Deck Level)
 - Fire Protection (Track Level)
 - HVAC (Ventilation of track level)
 - Controls
- Electrical:
- Service & Distribution
 - Lighting Devices & Heating
 - Systems & Ancillaries
- Park Installation (not yet shown)

DRAWING NUMBER
RDP-APP-C-04

RAIL
DECK
PARK

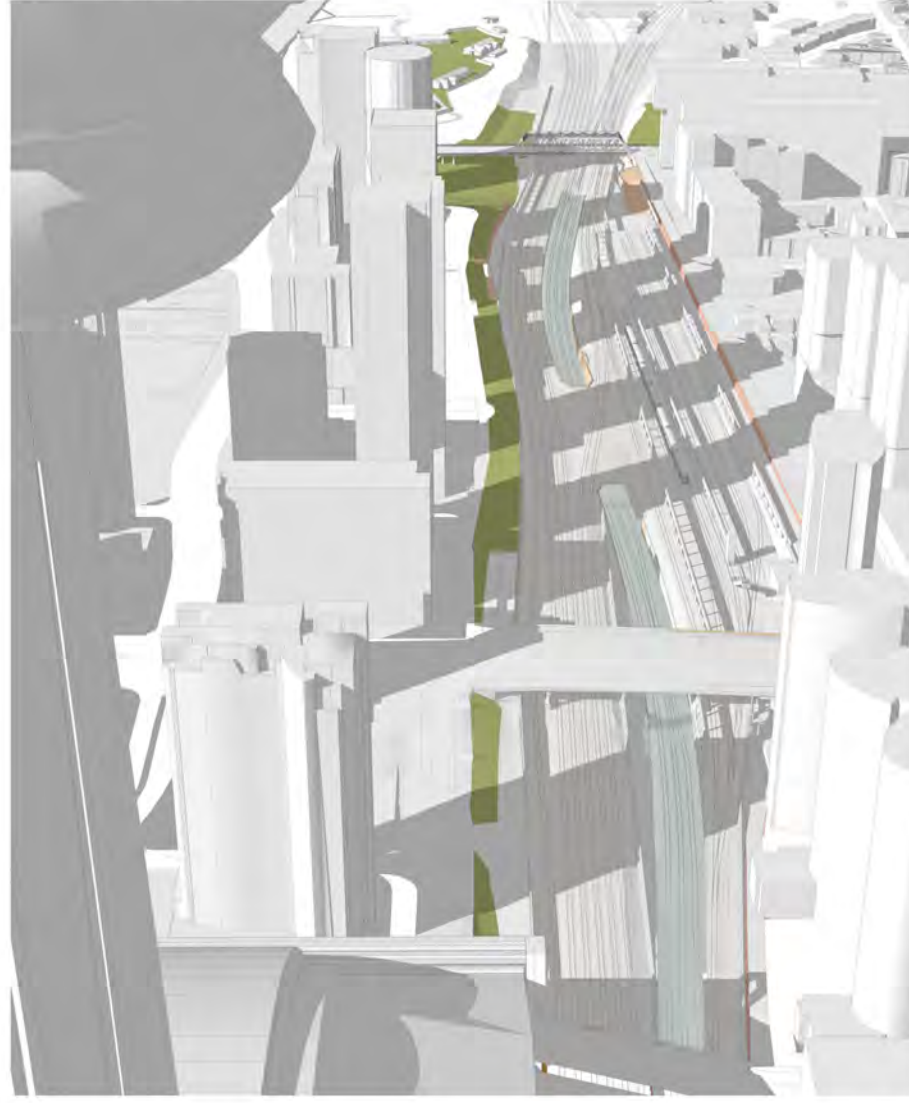
CONSTRUCTION SEQUENCE

EARLY WORKS



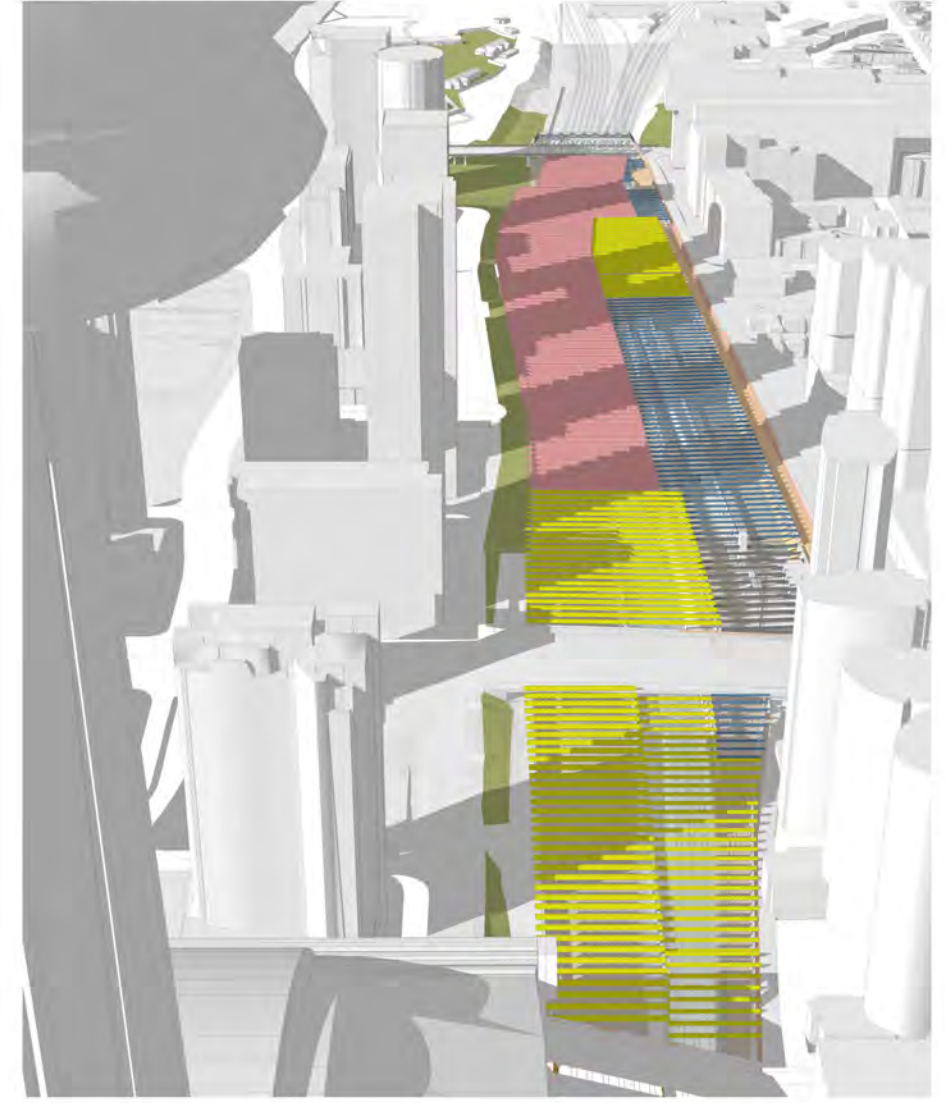
- Utility Relocates
Track Relocates
Demolition
Site Remediation
Temporary Works
- Temporary services or relocates
 - Overhead protection for trains and rail personnel
 - Creation of Laydown Areas for construction
 - Creation of construction access points
 - Temporary work for Phasing purposes

FOUNDATIONS + STRUCTURE



- Substructure:
- Foundations
 - Bulk Excavation
 - Special Conditions
- Site Development:
- Mechanical Site Services
 - Electrical Site Services
 - Ancillary Work
- Demolition & Alterations
- Sitework:
- Site Development
 - Mechanical Site Services
 - Electrical Site Services
 - Ancillary Work
 - Demolition & Alterations

DECK + PARK



- Structure:
- Suspended Deck Construction
 - Roof Construction
- Mechanical:
- Plumbing & Drainage (Track Level and Deck Level)
 - Fire Protection (Track Level)
 - HVAC (Ventilation of track level)
 - Controls
- Electrical:
- Service & Distribution
 - Lighting Devices & Heating
 - Systems & Ancillaries
- Park Installation (not yet shown)

DRAWING NUMBER
RDP-APP-C-05

RAIL
DECK
PARK



APPENDIX D

Cost Estimate Summary

- Cost Estimate Summary by Phase

COST SUMMARY

	PHASE 0 & 1	PHASE 2	PHASE 3	PHASE 4	TOTAL
area (\$M)	37,972	10,600	17,199	15,738	81,509
Early Works Packages	155,000,000	7,000,000	9,000,000	9,000,000	180,000,000
Deck Construction	255,000,000	73,000,000	99,000,000	103,000,000	530,000,000
Park Construction (On Top of Deck)	39,000,000	13,000,000	16,000,000	14,000,000	82,000,000
sub-total	294,000,000	86,000,000	115,000,000	117,000,000	612,000,000
General Requirements	42,000,000	12,000,000	16,000,000	17,000,000	87,000,000
Construction Management Fee	29,000,000	8,000,000	11,000,000	12,000,000	60,000,000
Work Restrictions	146,000,000	42,000,000	57,000,000	59,000,000	304,000,000
sub-total	511,000,000	148,000,000	199,000,000	205,000,000	1,063,000,000
Design and Pricing Contingency					
Construction (C/O) Contingency	156,000,000	44,000,000	63,000,000	64,000,000	327,000,000
Other Allowances					
HST - Excluded	0	0	0	0	0
Total Construction Cost (Excluding EW)	667,000,000	192,000,000	262,000,000	269,000,000	1,390,000,000
Total Construction Cost (Including EW)	822,000,000	199,000,000	271,000,000	278,000,000	1,570,000,000
Total Design Fees (Including Contingency)	50,000,000	12,000,000	16,000,000	17,000,000	95,000,000
Total Construction Costs + Design Fees	872,000,000	211,000,000	287,000,000	295,000,000	1,665,000,000
Cumulative Total (Excluding Escalation)	872,000,000	1,083,000,000	1,370,000,000	1,665,000,000	

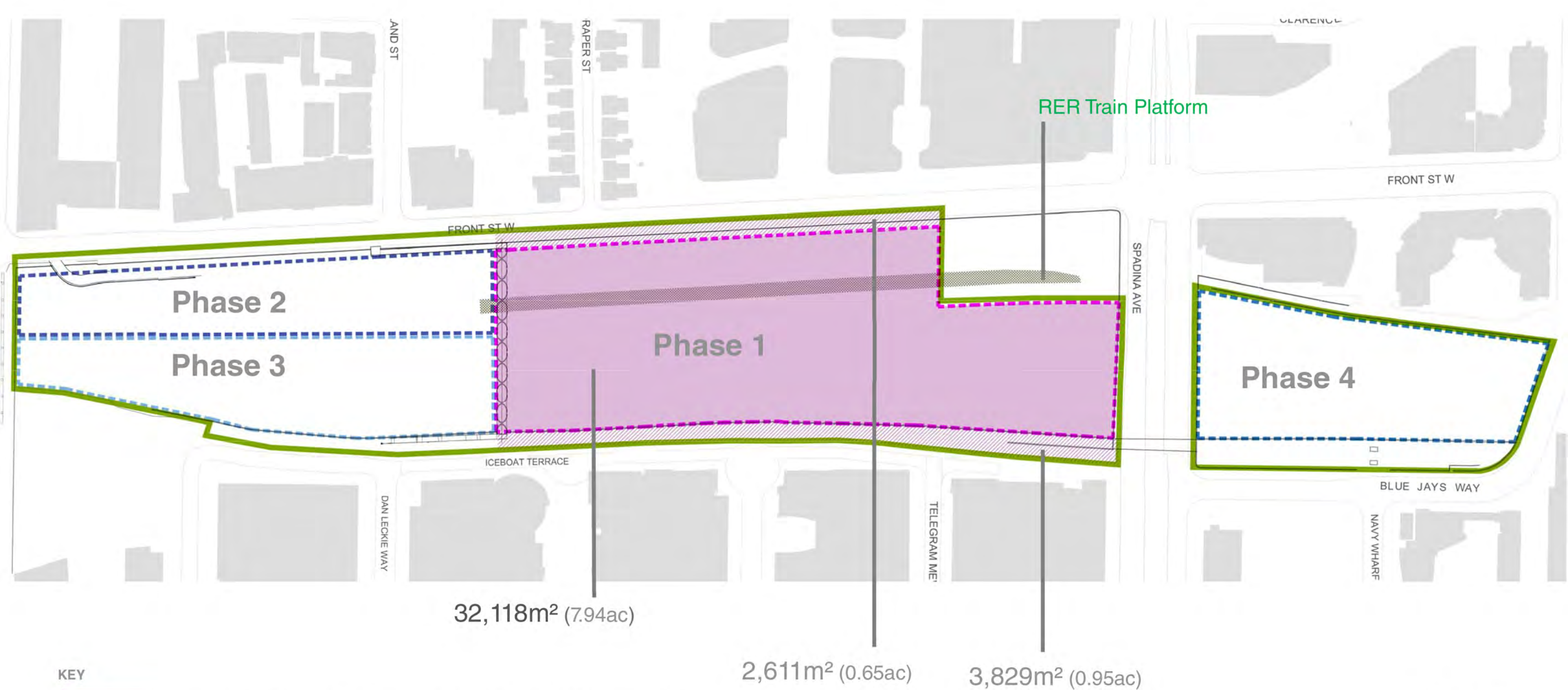


APPENDIX E

Phasing & Staging

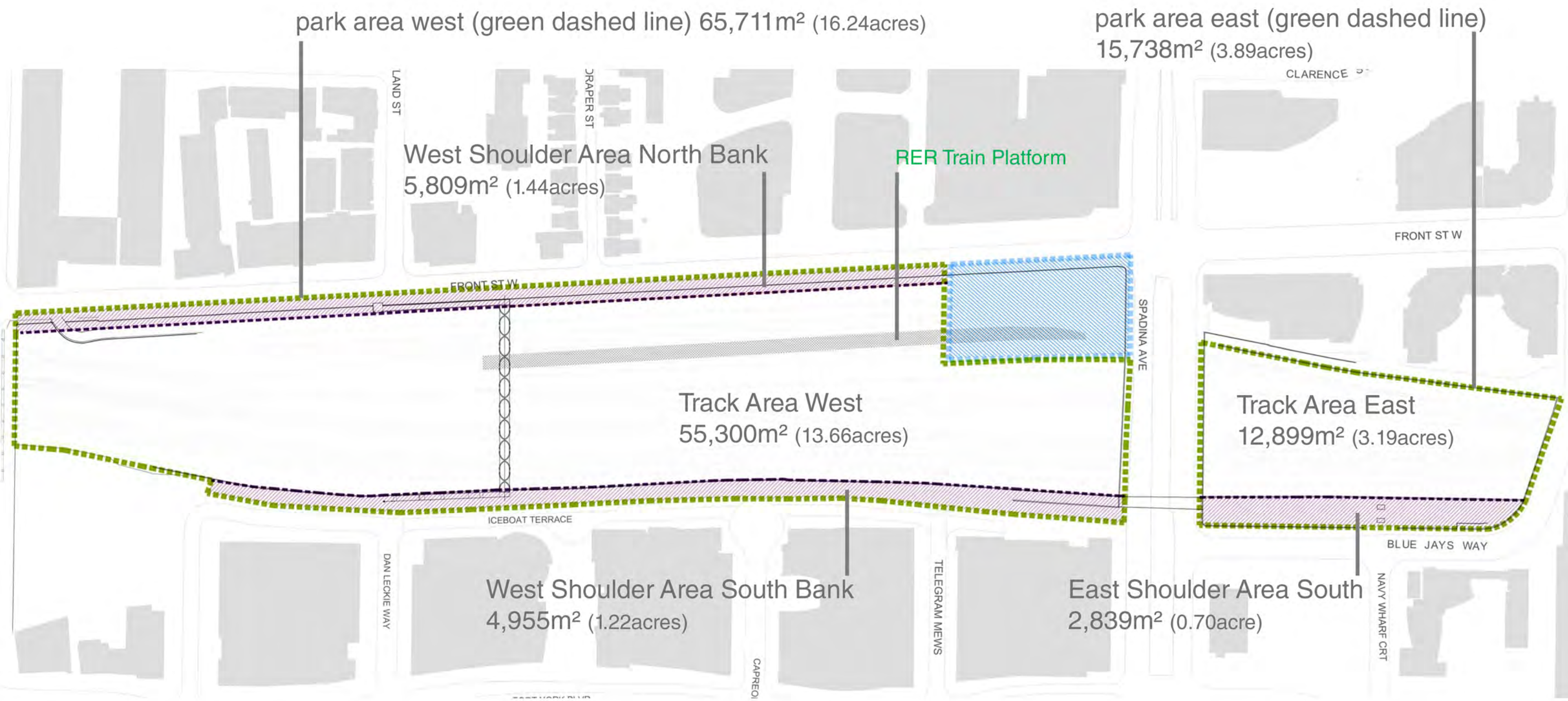
- Phasing
- Scope and Sequencing
- Stage 1A
- Stage 1B
- Stage 1C
- Stage 1D
- Construction Island Typologies

PHASING



- KEY
- DASHED PINK LINE AND SHADING DENOTING AREA OF CONSTRUCTION
 - DARK PINK HATCHING DENOTING EXISTING AREA TO BE INCLUDED AS PART OF DEVELOPMENT
 - GREEN LINE DENOTING EXTENT OF OVER ALL PARK DEVELOPMENT

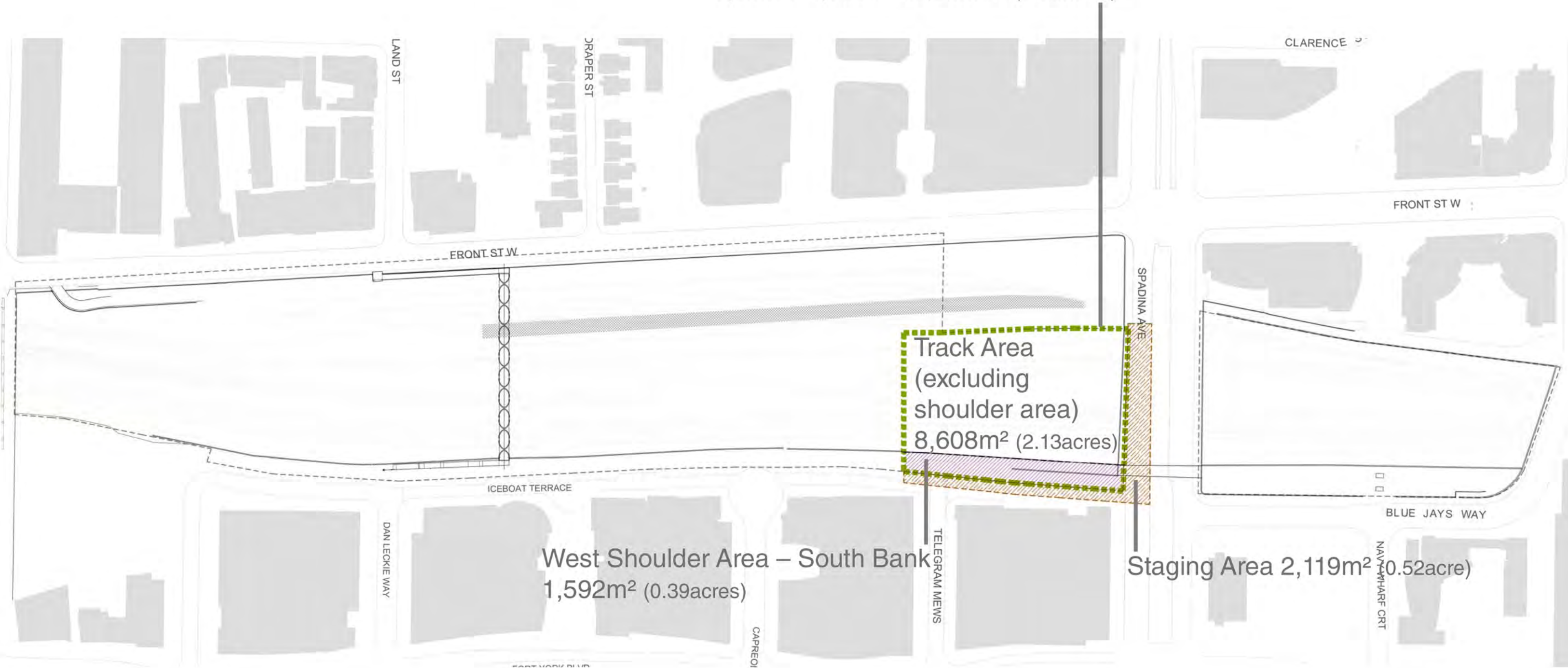
SCOPE AND SEQUENCING



Total Areas of Park within the 'green dashed lines' only: 65,711+15,738 = **81,509m² (20.14 acres)**

STAGE 1A

extent of work at stage 1A (denoted by green dashed line)
 $8,608 + 1,592 = 10,200\text{m}^2$ (2.52acres)



Extent of work at stage 1A: $8,608 + 1,592 = 10,200\text{m}^2$ (2.52acres)

STAGE 1B

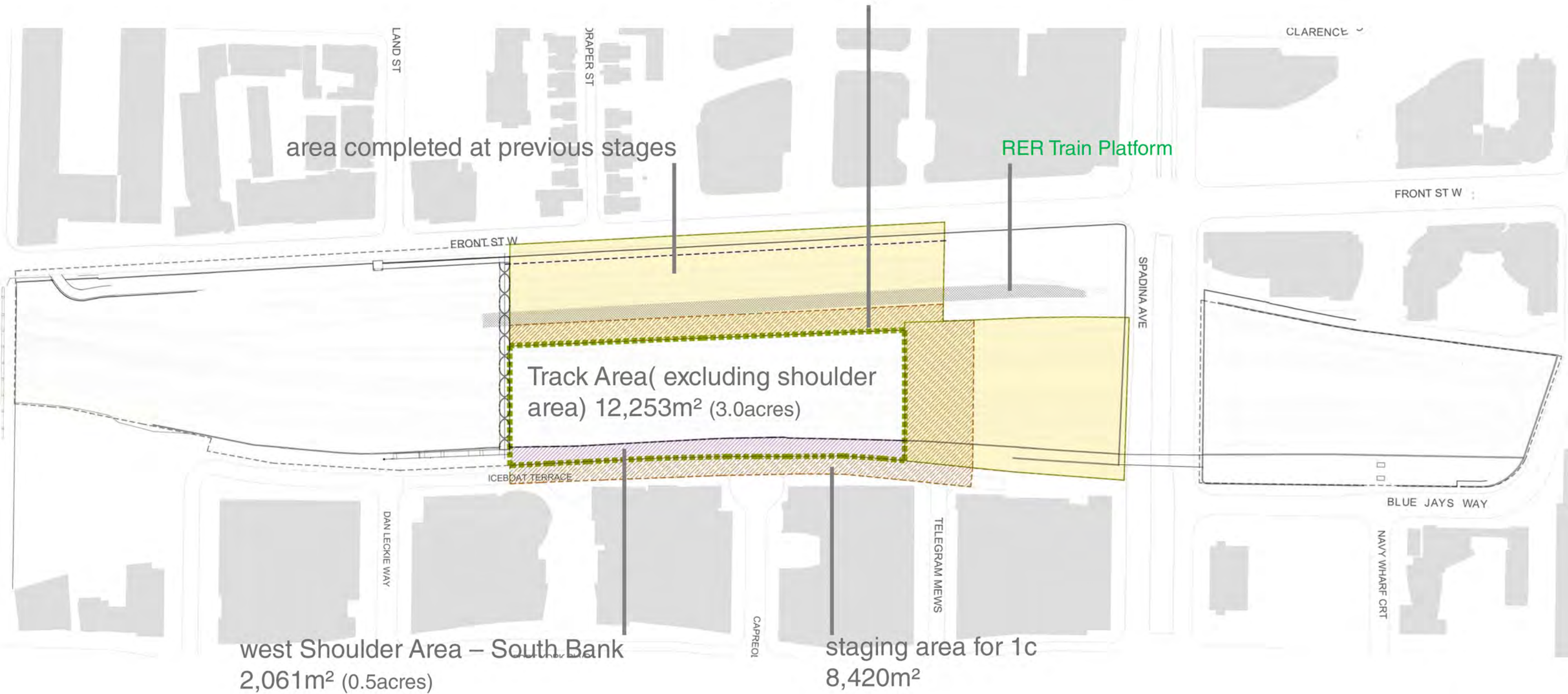
extent of work at stage 1B (denoted by green dashed line)
 $10,972 + 2,486 = 13,458\text{m}^2$ (3.33acres)



Extent of work at stage 1B: $10,972 + 2,486 = 13,458\text{m}^2$ (3.33acres)

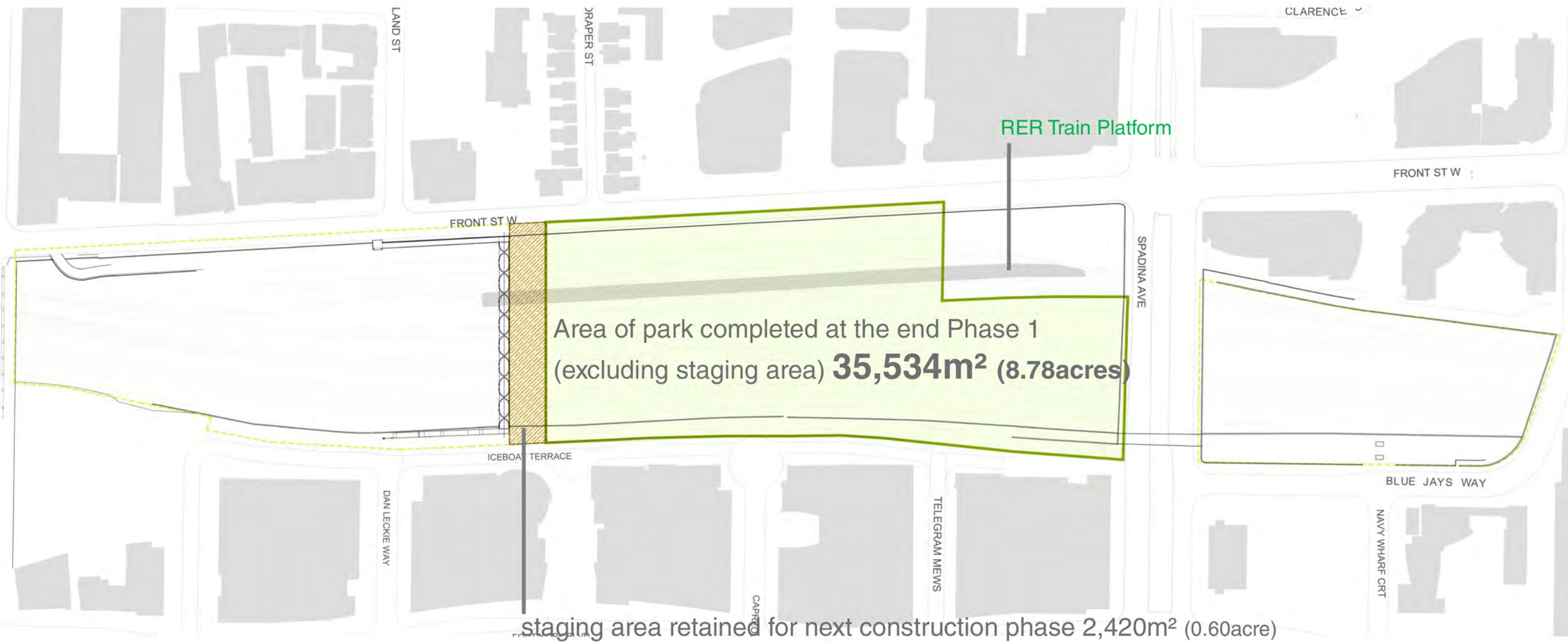
STAGE 1C

extent of work at stage 1C (denoted by green dashed line)
 $2,061 + 12,253 = 14,314\text{m}^2$ (3.5acres)



Extent of work at stage 1C: $2,061 + 12,253 = 14,314\text{m}^2$ (3.5acres)

STAGE 1D



Area of decking completed at the end stage 1D: $35,534 + 2,438 = 37,972\text{m}^2$ (9.38acres)

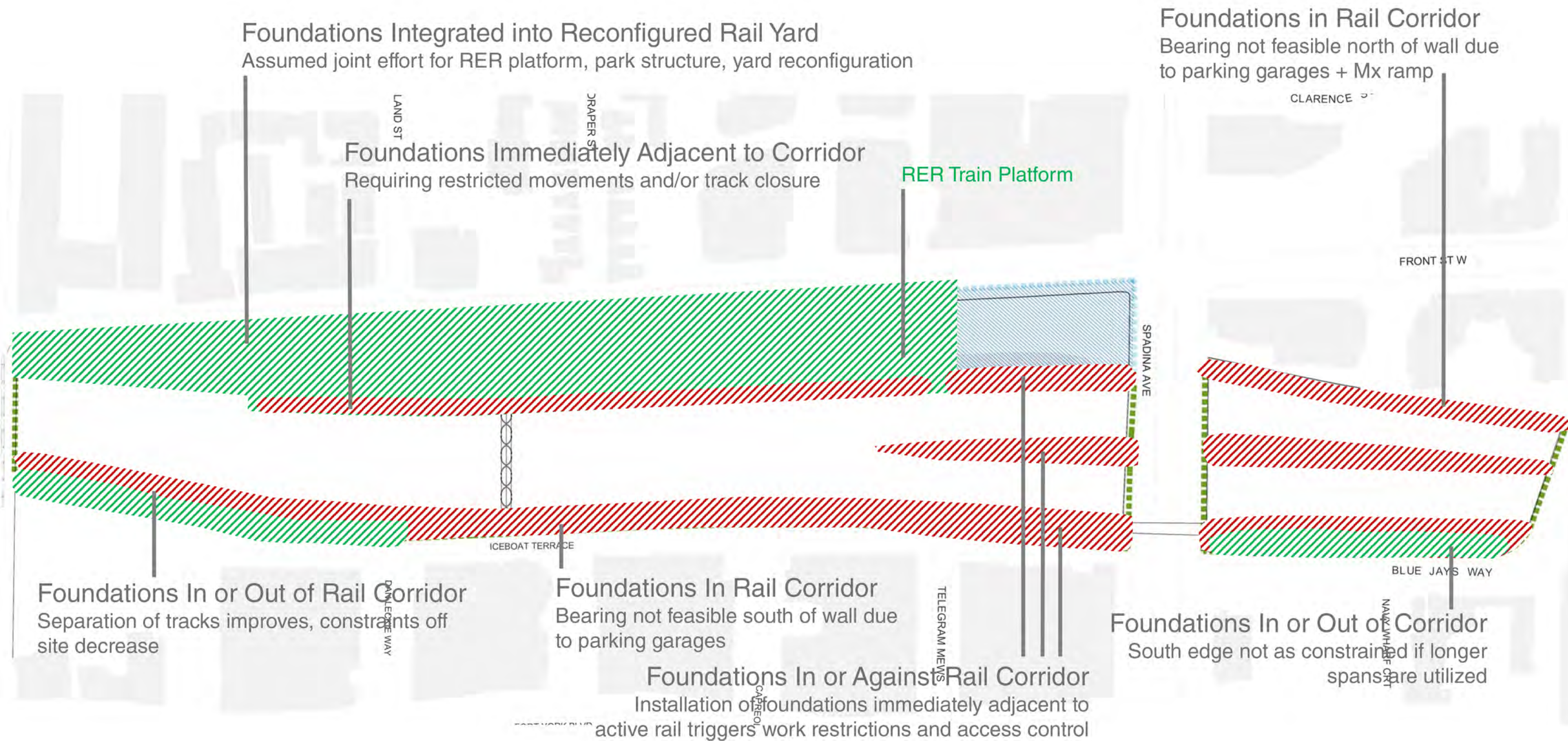


APPENDIX F

Precedents

- Global Precedents Map + Links
- Area Comparison

CONSTRUCTION ISLAND TYPOLOGIES



Deck Construction: Foundation Stage(s) At Track Level

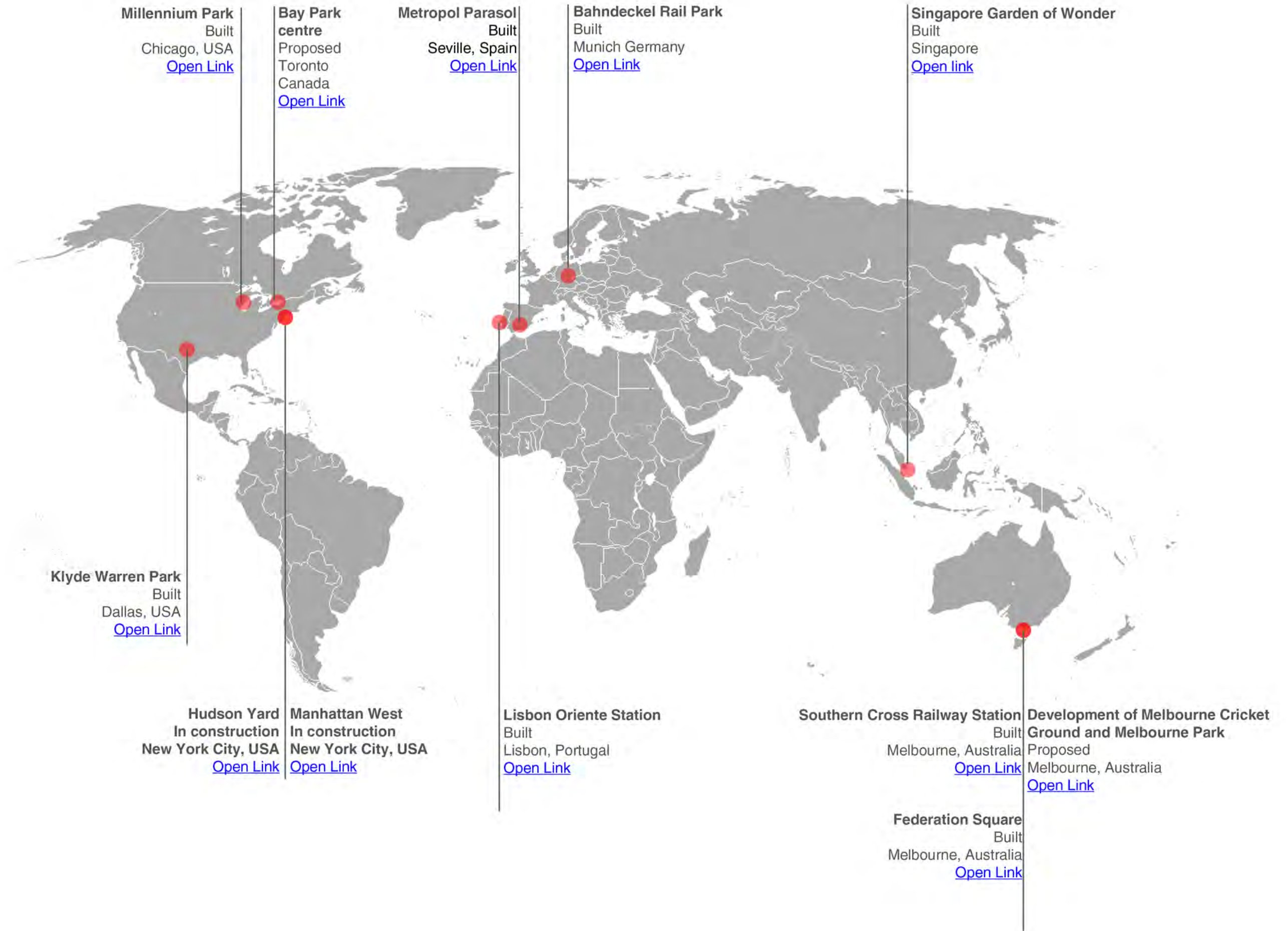
Park Constructor Controlled Areas and/or Mx Track Relocation Collaboration within **Green** Areas

Mx Work Restrictions Apply in **Red** Areas

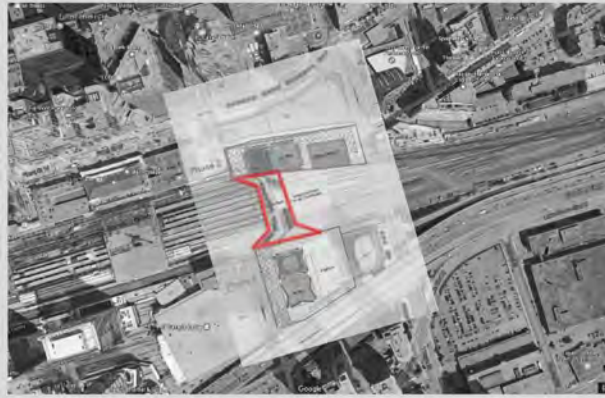
DRAWING NUMBER
RDP-APP-E-07

RAIL
DECK
PARK

Precedents Structure ‘spanning over’



Aerial Maps of Precedents



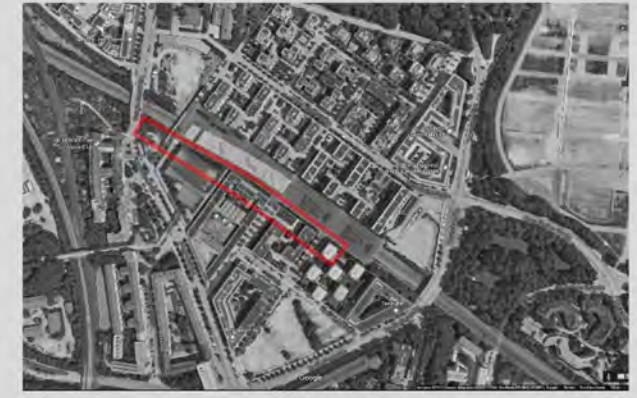
Toronto Bay Park



Lisbon Oriente Station



Development of Melbourne Cricket Ground and Melbourne Park



Bahndeckel Rail Park



Southern Cross Railway Station



Klyde Warren Park



Millennium Park



Manhattan West



Federation Square



Hudson Yard Development



Rail Deck Park - Toronto