

Appendix A
B-Line LRT Design Plates

Hamilton Rapid Transit Preliminary Design and Feasibility Study

B-LINE

ENVIRONMENTAL PROJECT REPORT v1.0





Hamilton Rapid Transit Preliminary Design and Feasibility Study

B-LINE

ENVIRONMENTAL PROJECT REPORT

v1.0

October 2011



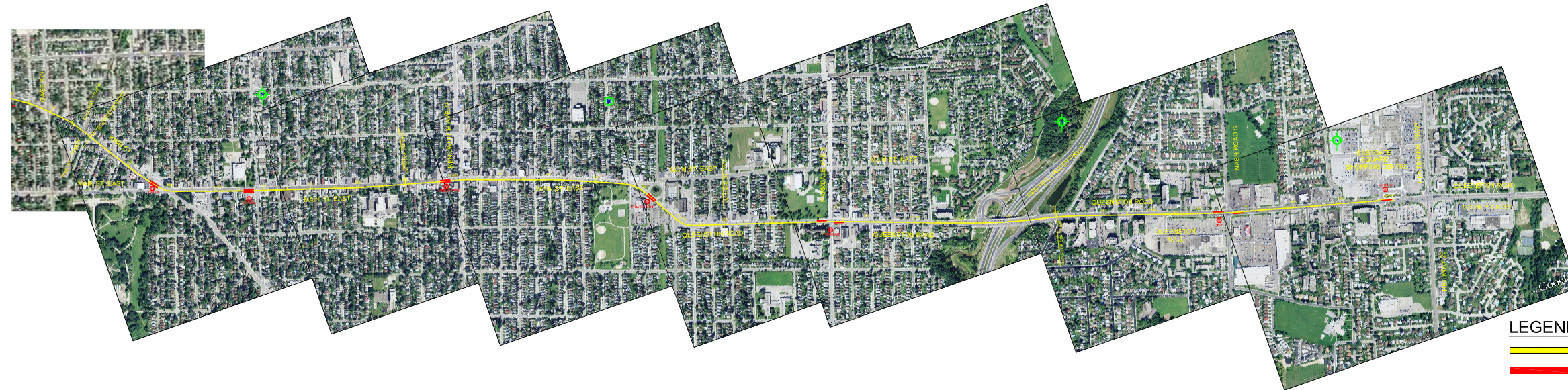
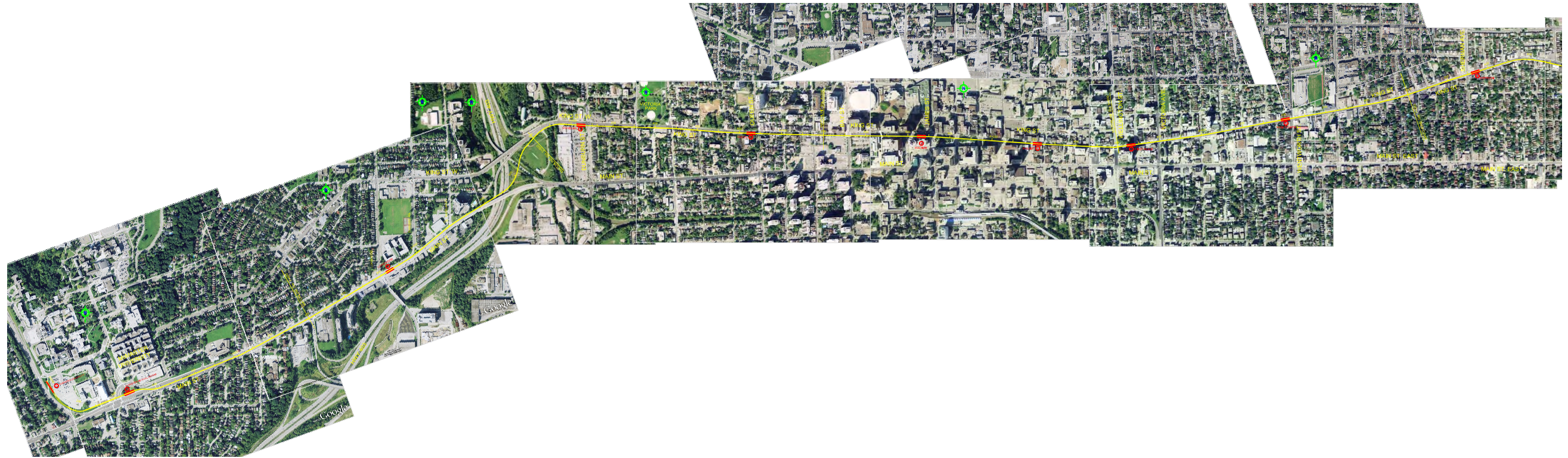
Appendix A

B-Line LRT Design Plates

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- A.3 Typical Cross-Sections
- A.4 Typical Stop Configuraion
- A.5 Traction Power Substation Locations

Appendix A.1
Key Plan



LEGEND:
 PROPOSED LINE "B"
 STOP LOCATION

PROPOSED HAMILTON LRT B-LINE STA. 0+000 TO 14+000

Appendix A.2
Plan and Profile

COOTES DRIVE

WESTBOUND

EASTBOUND

NO BACKGROUND INFORMATION AVAILABLE ON SURVEY PLAN

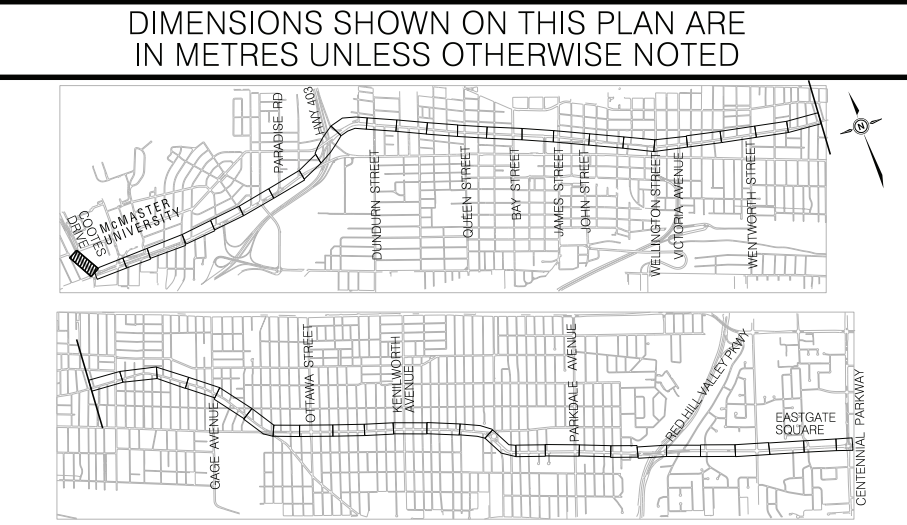
NOTES:

- ① OPPORTUNITIES FOR WIDENING SIDEWALKS BEYOND 2.5m TO BE EVALUATED IN NEXT DESIGN PHASE TO ACCOMMODATE URBAN REALM ENHANCEMENTS
- ② INCLUSION OF HARD AND SOFT LANDSCAPING TO BE EVALUATED IN NEXT DESIGN PHASE
- ③ EXACT DETAIL AND EXTENT OF BUMPOUTS TO ACCOMMODATE URBAN REALM ENHANCEMENTS TO BE DETERMINED IN NEXT DESIGN PHASE

LEGEND

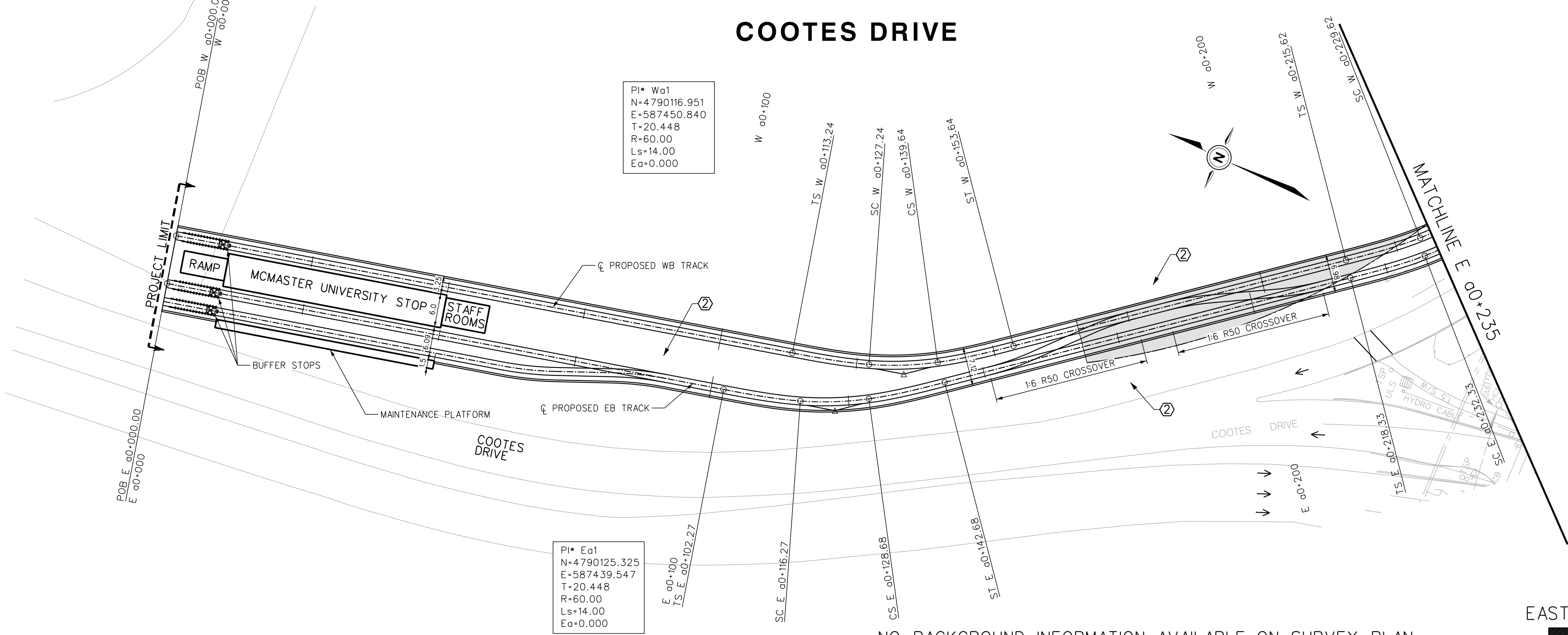
- LRT TRACK CENTRELINE
- - - - - EXISTING PROPERTY LINE
- - - - - PROPOSED TOP OF RAIL (PROFILE)
- - - - - EXISTING GROUND LINE
- - - - - EAST BOUND TRACK USED AS REFERENCE LINE
E0+000.00 STATIONING ON EB TRACK
W0+000.00 STATIONING ON WB TRACK
PROPERTY REQUIRED
MATCH EXISTING
EXISTING DRIVEWAY
DESIGN VEHICLE
WB-20
XX:1
TAPER RATE
TOP OF SLOPE
BOTTOM OF SLOPE
DITCH FLOW DIRECTION

NOT FOR CONSTRUCTION



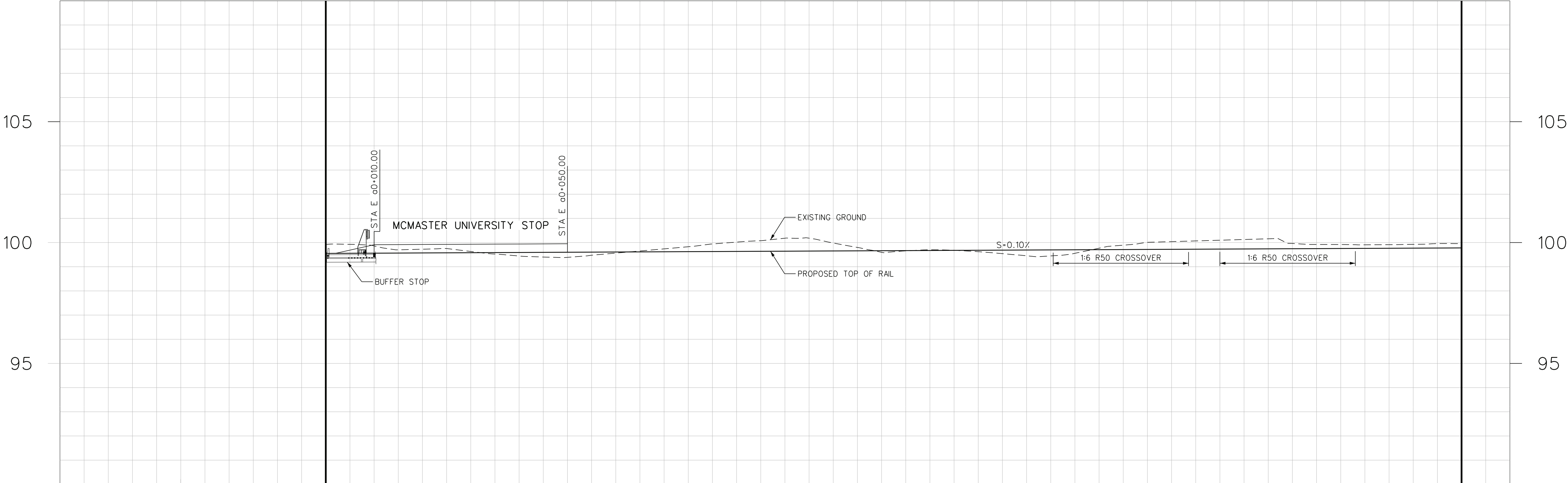
FILE No.	CONTRACT No. C11-12-10	SHEET No. 1 OF 50
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DIMENSIONS SHOWN ON THIS PLAN ARE IN METRES UNLESS OTHERWISE NOTED



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E=587450.840
T=20.448
R=60.00
Ls=14.00
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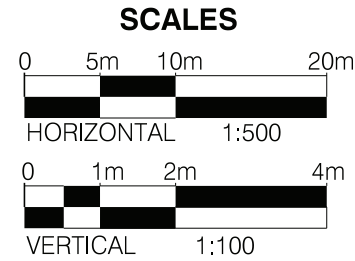
PROPOSED TOP OF RAIL PROFILE

EXISTING GROUND ELEVATION

DESIGN ϕ CHAINAGE
EASTBOUND TRACK

No.	REVISIONS	INITIAL	DATE

REFERENCE MATERIAL:
Survey Plan : COMPILED FBS AND SURVEY LRT.dgn (MAY 19, 2011)
0937HAM0002_ALL_v8.dgn (OCTOBER 7, 2010)
basemap2.dwg (MAY 19, 2011)
Sewer Plans :
Water Plans :
Geodetic Bench Mark Index
Borehole Report -



Project Manager
NAME
Manager of Design
NAME

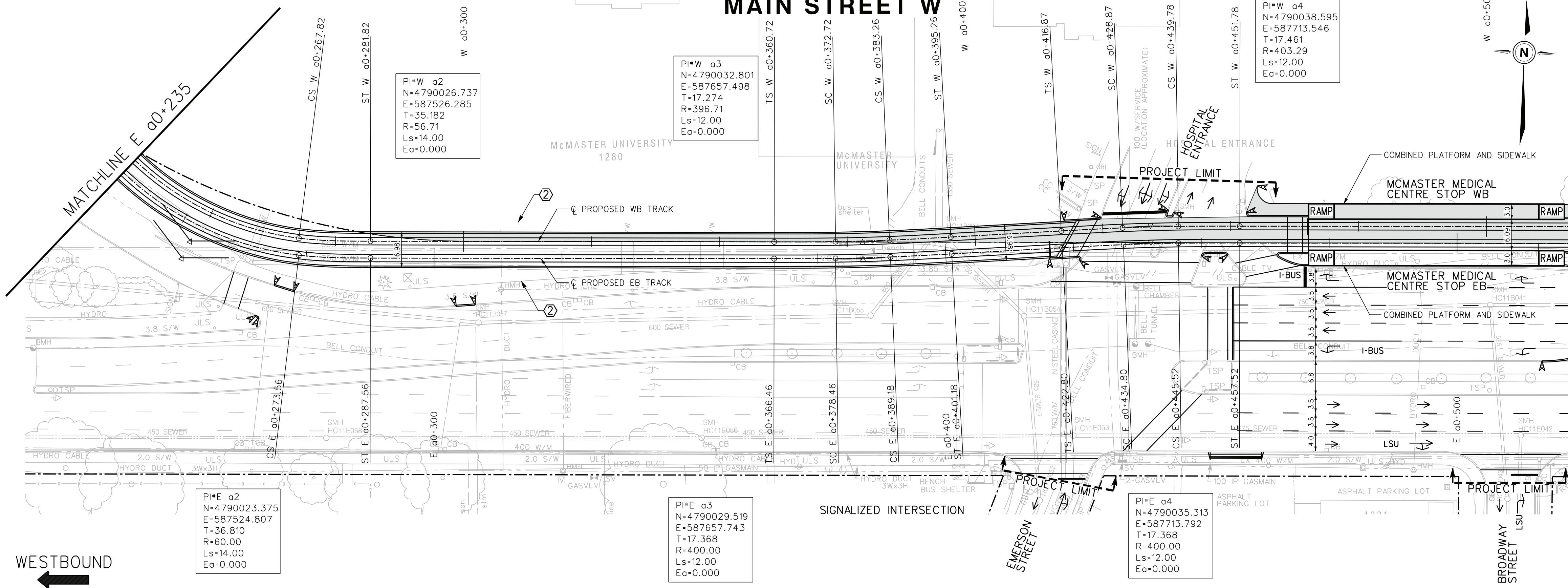


DRAWN BELDEN KUNG / BRIAN KIM
CHECKED JUAN UMANA
APPROVED STEPHAN MEHR
DATE 2011/09/22



HAMILTON LRT 'B' LINE
CONCEPTUAL DESIGN
PLAN AND PROFILE
WEST END TO STA E a0+235

MAIN STREET W



WESTBOUND

EASTBOUND

FILE No.

CONTRACT No. C11-12-10

SHEET No.
2 OF 50

DIMENSIONS SHOWN ON THIS PLAN ARE
IN METRES UNLESS OTHERWISE NOTED

LEGEND

LRT TRACK CENTRELINE

EXISTING PROPERTY LINE

PROPOSED TOP OF RAIL (PROFILE)

EXISTING GROUND LINE

EAST BOUND TRACK USED AS REFERENCE LINE

STATIONING ON EB TRACK

STATIONING ON WB TRACK

PROPERTY REQUIRED

MATCH EXISTING

EXISTING DRIVEWAY

DESIGN VEHICLE

TAPER RATE

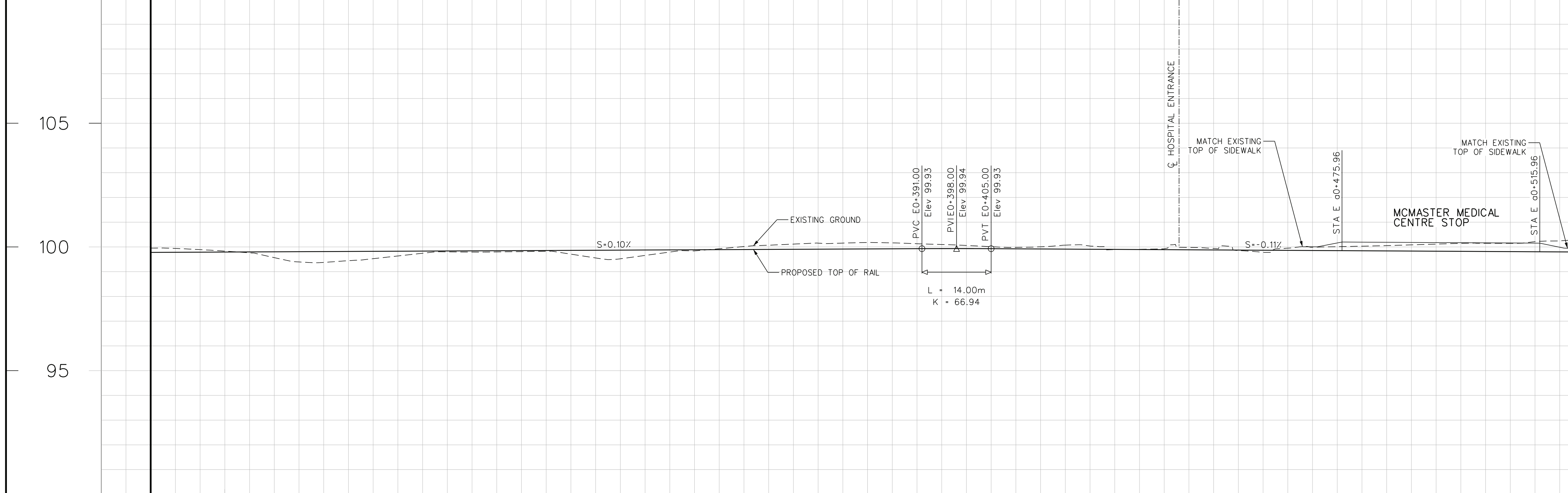
TOP OF SLOPE

BOTTOM OF SLOPE

DITCH FLOW DIRECTION

NOT FOR CONSTRUCTION

- NOTES:
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		99.832		99.444		99.792		99.555		99.928		100.156		100.060		100.137		99.939		100.010		100.144	PROPOSED TOP OF RAIL PROFILE
		99.793		99.818		99.842		99.866		99.890		99.914		99.932		99.906		99.878		99.850		99.822	EXISTING GROUND ELEVATION
		E a0+250		E a0+275		E a0+300		E a0+325		E a0+350		E a0+375		E a0+400		E a0+425		E a0+450		E a0+475		E a0+500	DESIGN C CHAINAGE EASTBOUND TRACK

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Borehole Report -

SCALES

Project Manager

NAME

Manager of Design

NAME

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CHECKED JUAN UMANA

APPROVED STEPHAN MEHR

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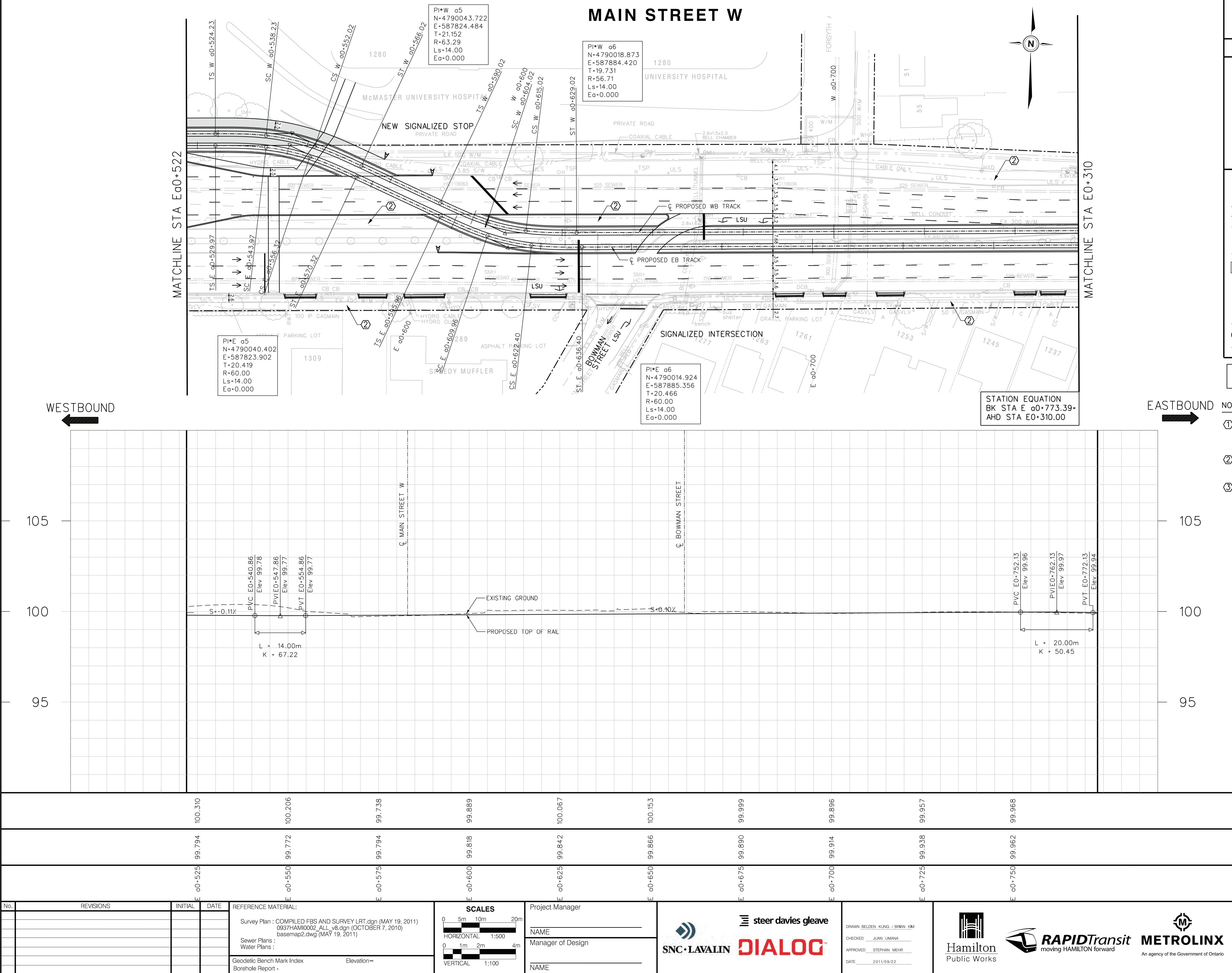
HAMILTON LRT 'B' LINE

PRELIMINARY DESIGN

PLAN AND PROFILE

STA E a0+235 TO STA E a0+522

P:\503795\Trans\500-Plates\NC-ROAD\LRT-RD-NC03.dgn
2011-10-07 8:44:36 AM
KIMBR



FILE No.

CONTRACT No. C11-12-10

SHEET No.
3 OF 50

DIMENSIONS SHOWN ON THIS PLAN ARE
IN METRES UNLESS OTHERWISE NOTED

LEGEND

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EXISTING GROUND LINE

EAST BOUND TRACK USED AS REFERENCE LINE

E0+000.00

STATIONING ON EB TRACK

W0+000.00

STATIONING ON WB TRACK

PROPERTY REQUIRED

MATCH EXISTING

EXISTING DRIVEWAY

DESIGN VEHICLE

XX:1

TAPER RATE

TOP OF SLOPE

BOTTOM OF SLOPE

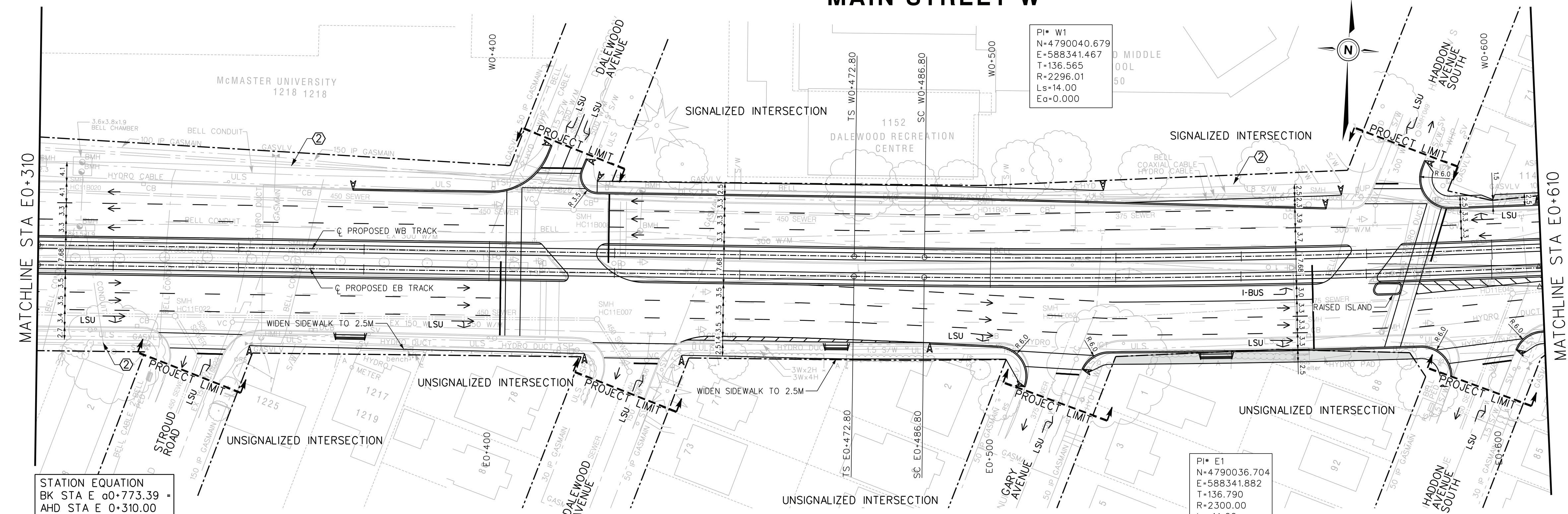
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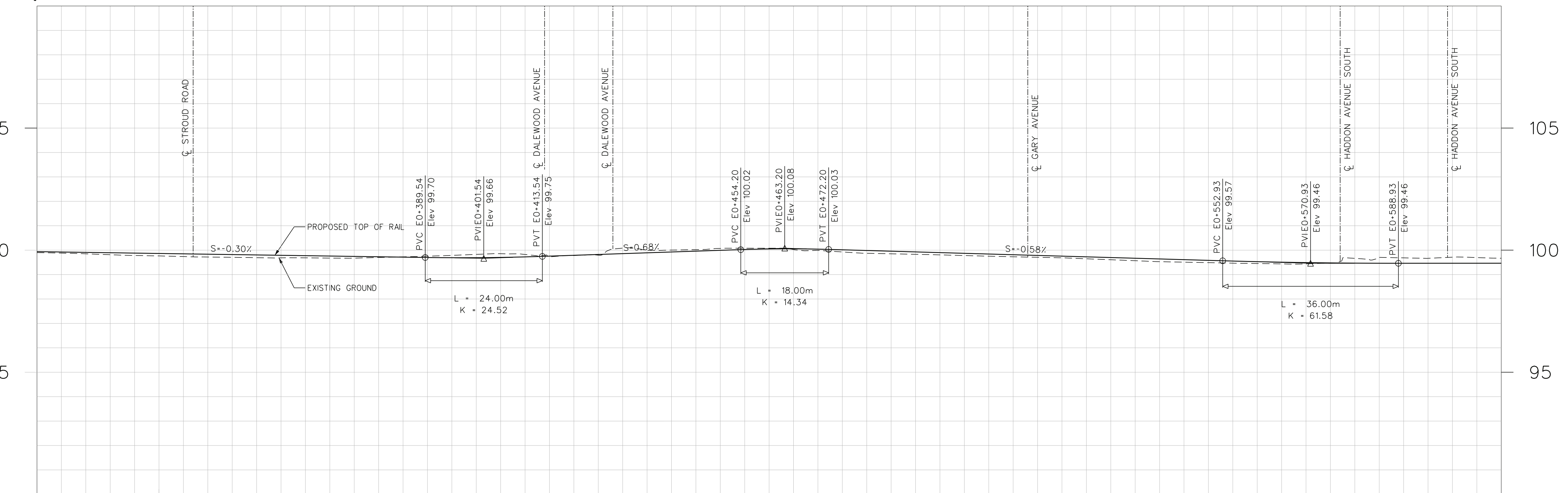
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<div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div>RAPIDTransit</div><div>moving HAMILTON forward</div></div></div> <div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div>METROLINX</div><div>An agency of the Government of Ontario</div></div></div>										HAMILTON LRT 'B' 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MAIN STREET W



WESTBOUND

EASTBOUND



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LEGEND

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- E0+000.00 STATIONING ON EB TRACK
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- EXISTING DRIVEWAY
- DESIGN VEHICLE
- TAPER RATE
- TOP OF SLOPE
- BOTTOM OF SLOPE
- DITCH FLOW DIRECTION

NOT FOR CONSTRUCTION

E0-310				99.814	99.814	PROPOSED TOP OF RAIL PROFILE
E0-325				99.895	99.895	
E0-350				99.820	99.820	
E0-375				99.745	99.745	
E0-400				99.675	99.675	EXISTING GROUND ELEVATION
E0-425				99.828	99.828	
E0-450				99.824	99.824	
E0-475				99.795	99.795	
E0-500				100.073	100.073	DESIGN & CHAINAGE EASTBOUND TRACK
E0-525				99.994	99.994	
E0-550				100.015	100.015	
E0-575				99.928	99.928	
E0-600				99.781	99.781	HAMILTON LRT 'B' LINE
E0-610				99.647	99.647	
E0-625				99.490	99.490	
E0-640				99.462	99.462	
E0-655				99.712	99.712	
E0-670				99.464	99.464	

Revisions:

No.	REVISIONS	INITIAL	DATE
1	Modified sw, taper rate & curb radii	JU	09/26/11

REFERENCE MATERIAL:

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Elevation=

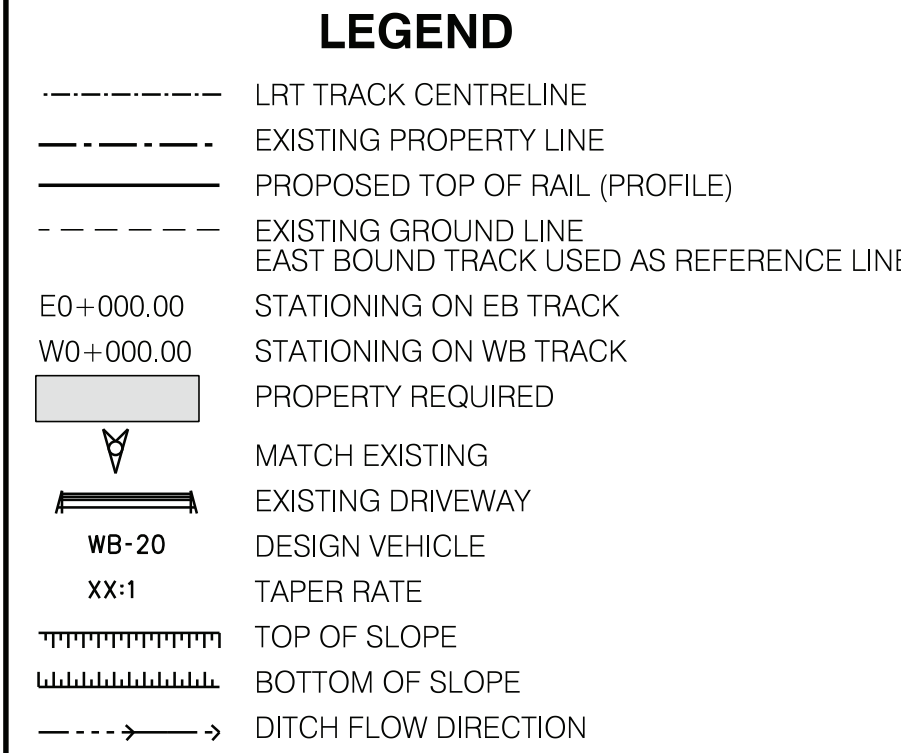
Project Manager
NAME
Manager of Design
NAME

SCALES
HORIZONTAL 1:500
VERTICAL 1:100

steer daves gleave
SNC-LAVALIN DIALOG

DRAWN BELDEN KUNG / BRIAN KIM
CHECKED JUAN UMANA
APPROVED STEPHAN MEHR
DATE 2011/09/06

HAMILTON Public Works
RAPIDTransit moving HAMILTON forward
METROLINX An agency of the Government of Ontario



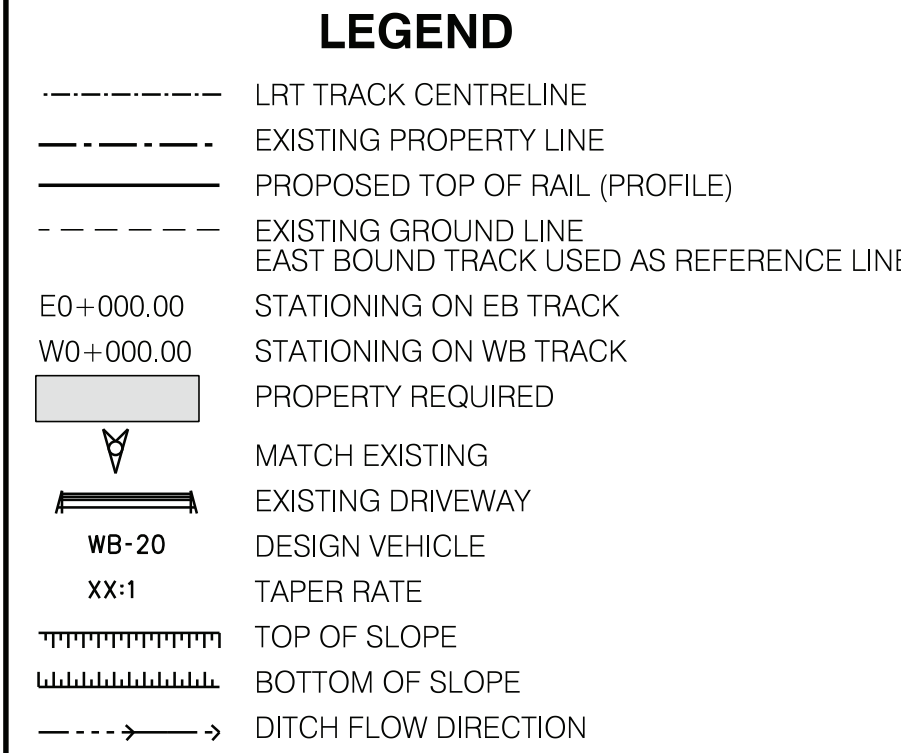
NOT FOR CONSTRUCTION

WESTBOUND
←



E0+625	99.466	99.470	PROPOSED TOP OF RAIL PROFILE
E0+650	99.468	99.453	
E0+675	99.470	99.484	
E0+700	99.472	99.492	
E0+725	99.505	99.399	
E0+750	99.555	99.421	
E0+775	99.606	99.462	
E0+800	99.639	99.516	
E0+825	99.625	99.475	
E0+850	99.612	99.520	
E0+875	99.599	99.462	
E0+900	99.586	99.387	
			EXISTING GROUND ELEVATION
			DESIGN C CHAINAGE EASTBOUND TRACK

[illegible]



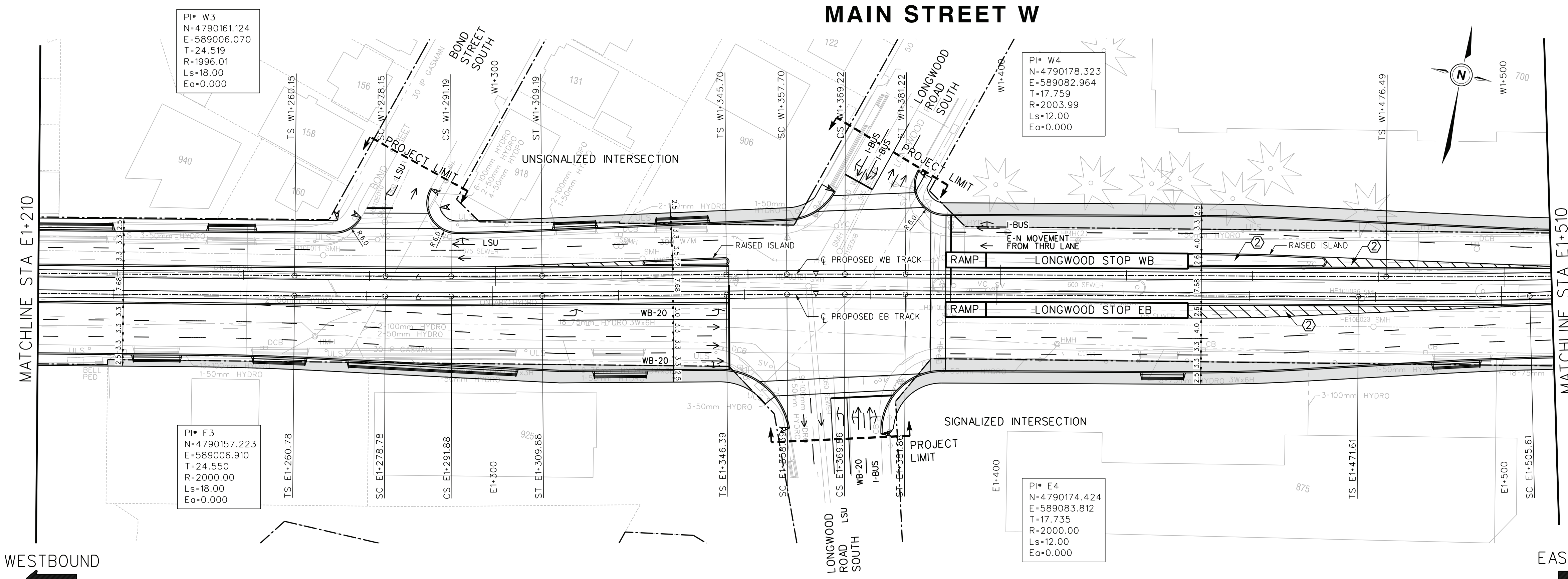
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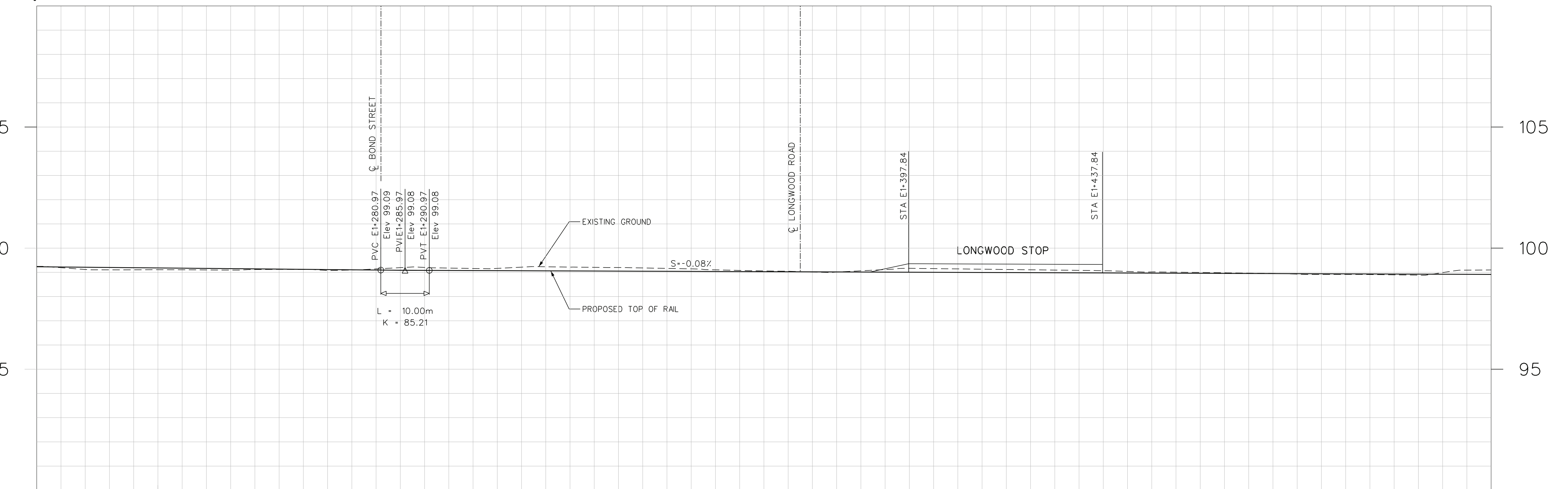


MAIN STREET W



WESTBOUND

EASTBOUND



FILE No.

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SHEET No.
7 OF 50

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 - EXACT DETAIL AND EXTENT OF BUMPOUTS TO ACCOMMODATE URBAN REALM ENHANCEMENTS TO BE DETERMINED IN NEXT DESIGN PHASE

99.103	99.095	99.097	99.160	99.206	99.104	99.012	99.142	99.082	98.995	98.913	98.990	PROPOSED TOP OF RAIL PROFILE
99.202	99.153	99.105	99.074	99.055	99.036	99.017	98.998	98.979	98.960	98.942	98.923	EXISTING GROUND ELEVATION
E1+225	E1+250	E1+275	E1+300	E1+325	E1+350	E1+375	E1+400	E1+425	E1+450	E1+475	E1+500	DESIGN C CHAINAGE EASTBOUND TRACK

No.

REVISIONS

INITIAL

DATE

1

Modified taper rate, added raised islands, relocated stop bar

JU

09/26/11

REFERENCE MATERIAL:

Survey Plan : COMPILED FBS AND SURVEY LRT.dgn (MAY 19, 2011)
0937HAMI0002_ALL_v8.dgn (OCTOBER 7, 2010)
basemap2.dwg (MAY 19, 2011)

Sewer Plans :
Water Plans :

Geodetic Bench Mark Index
Borehole Report -

Elevation=

SCALES

0 5m 10m 20m

HORIZONTAL 1:500

0 1m 2m 4m

VERTICAL 1:100

Project Manager

NAME

Manager of Design

NAME

DRAWN BELDEN KLING / BRIAN KIM

CHECKED JUAN UMANA

APPROVED STEPHAN MEHR

DATE 2011/09/06

An agency of the Government of Ontario

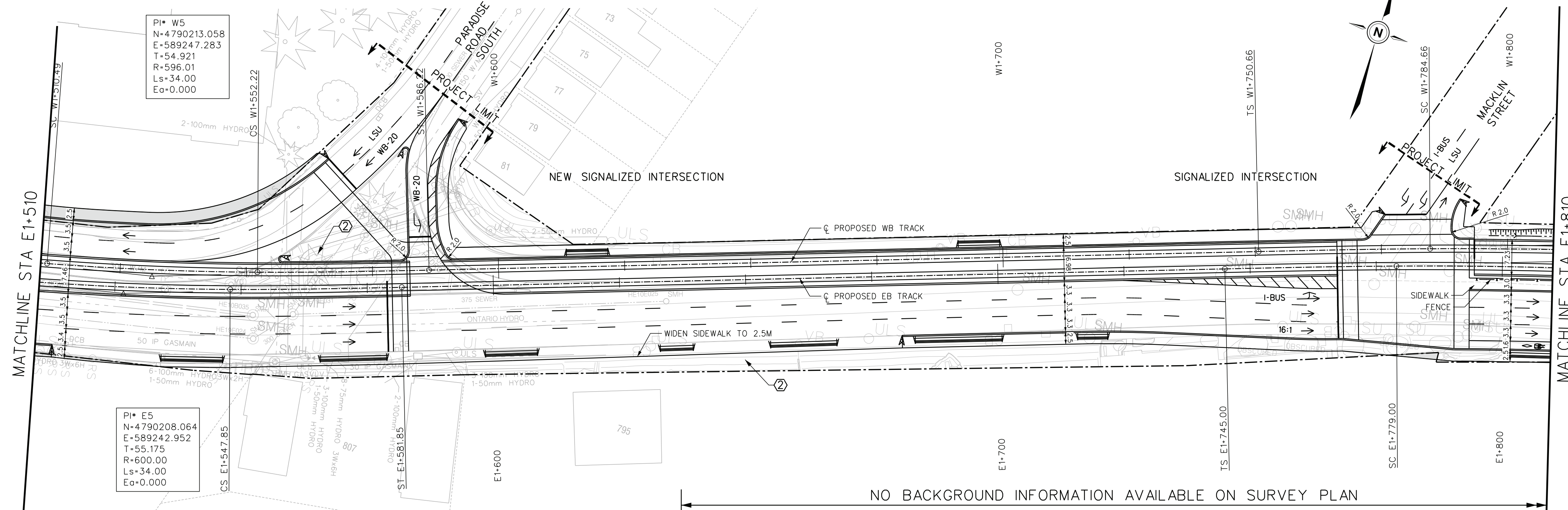
HAMILTON LRT 'B' LINE

PRELIMINARY DESIGN

PLAN AND PROFILE

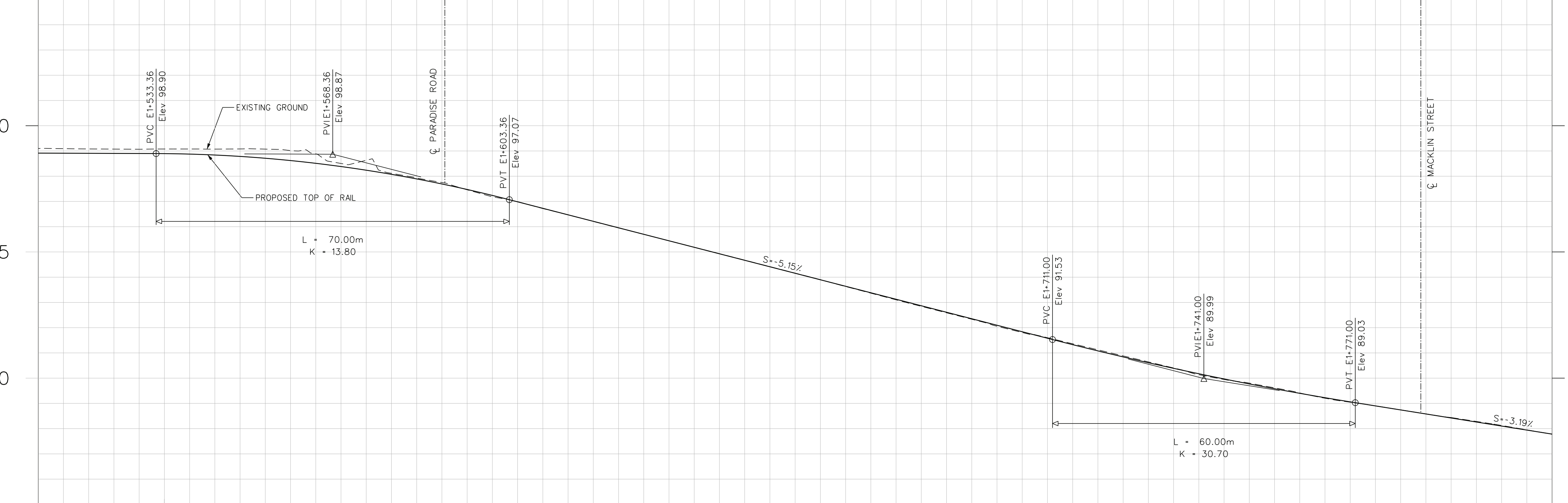
STA E1+210 TO STA E1+510

MAIN STREET W



WESTBOUND

EASTBOUND



99.074	99.081	98.631	97.182	95.952	94.676	93.367	92.056	90.883	89.804	88.903	88.127	PROPOSED TOP OF RAIL PROFILE
98.904	98.785	98.238	97.239	95.956	94.670	93.383	92.096	90.842	89.771	88.901	88.103	EXISTING GROUND ELEVATION
E1+525	E1+550	E1+575	E1+600	E1+625	E1+650	E1+675	E1+700	E1+725	E1+750	E1+775	E1+800	DESIGN ϕ CHAINAGE EASTBOUND TRACK

DIMENSIONS SHOWN ON THIS PLAN ARE
IN METRES UNLESS OTHERWISE NOTED

LEGEND

--- LRT TRACK CENTRELINE

- - - EXISTING PROPERTY LINE

--- PROPOSED TOP OF RAIL (PROFILE)

--- EXISTING GROUND LINE

--- EAST BOUND TRACK USED AS REFERENCE LINE

E0+000.00 STATIONING ON EB TRACK

W0+000.00 STATIONING ON WB TRACK

PROPERTY REQUIRED

MATCH EXISTING

EXISTING DRIVEWAY

DESIGN VEHICLE

TAPER RATE

TOP OF SLOPE

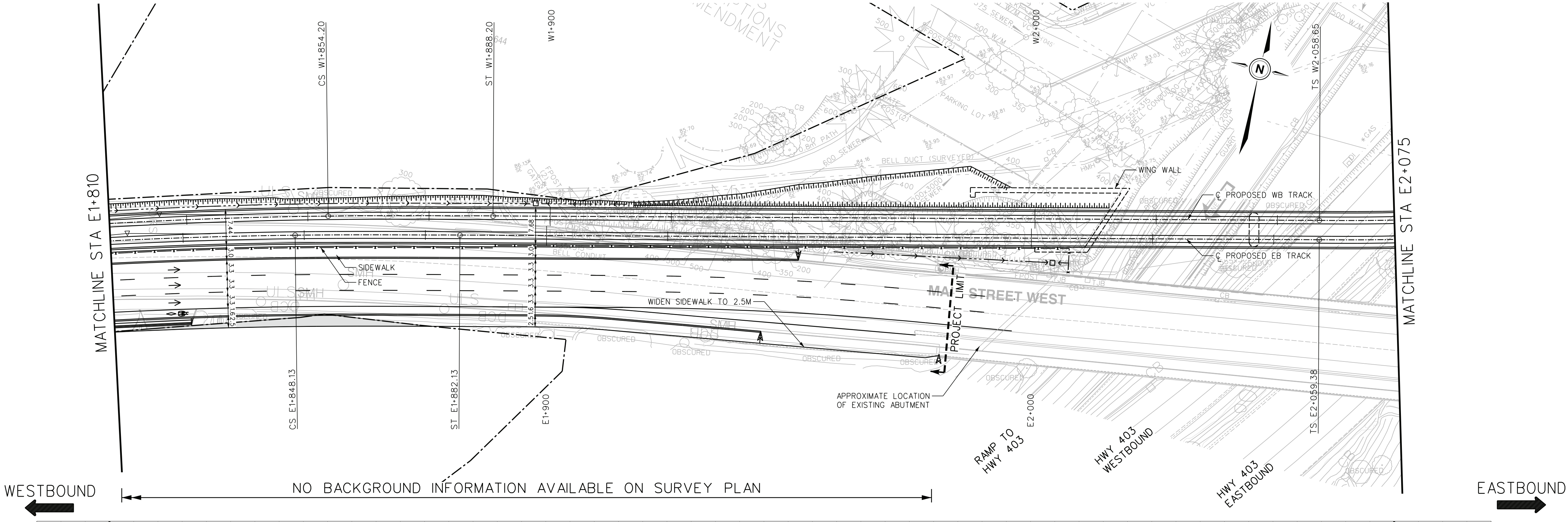
BOTTOM OF SLOPE

DITCH FLOW DIRECTION

NOT FOR CONSTRUCTION

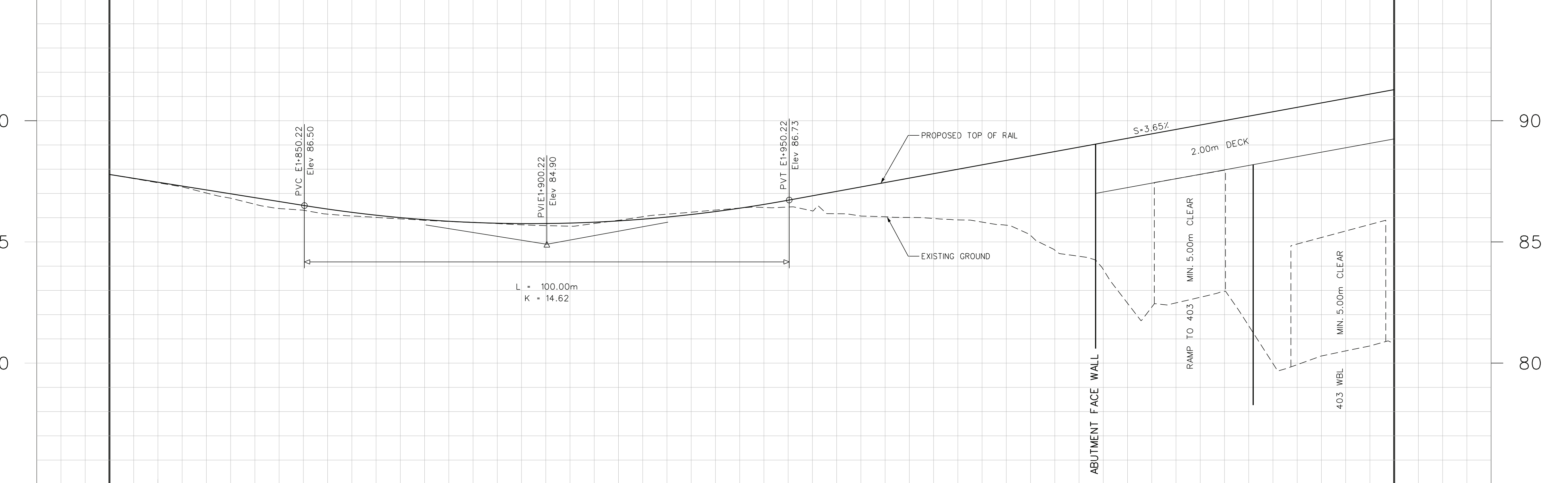
- NOTES:
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MAIN STREET W



WESTBOUND

EASTBOUND



87.268	86.309	85.891	85.674	86.144	86.440	86.009	85.271	82.311	79.983	80.803
87.305	86.507	85.919	85.758	86.026	86.721	87.633	88.545	89.458	90.370	91.282
E1+825	E1+850	E1+875	E1+900	E1+925	E1+950	E1+975	E2+000	E2+025	E2+050	E2+075

PROPOSED TOP OF RAIL PROFILE

EXISTING GROUND ELEVATION

DESIGN C CHAINAGE
EASTBOUND TRACK

LEGEND

- LRT TRACK CENTRELINE
- - - - - EXISTING PROPERTY LINE
- PROPOSED TOP OF RAIL (PROFILE)
- EXISTING GROUND LINE
- EAST BOUND TRACK USED AS REFERENCE LINE
- E0+000.00 STATIONING ON EB TRACK
- W0+000.00 STATIONING ON WB TRACK
- PROPERTY REQUIRED
- MATCH EXISTING
- EXISTING DRIVEWAY
- DESIGN VEHICLE
- TAPER RATE
- TOP OF SLOPE
- BOTTOM OF SLOPE
- DITCH FLOW DIRECTION

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No.	REVISIONS	INITIAL	DATE	REFERENCE MATERIAL:	Project Manager					HAMILTON LRT 'B' LINE PRELIMINARY DESIGN PLAN AND PROFILE STA E1+810 TO STA E2+075
				Survey Plan : COMPILED FBS AND SURVEY LRT.dgn (MAY 19, 2011) 0937HAMI0002_ALL_v8.dgn (OCTOBER 7, 2010) basemap2.dwg (MAY 19, 2011)	NAME					
				Sewer Plans : Geodetic Bench Mark Index Borehole Report -	Manager of Design NAME					

SCALES

0 5m 10m 20m

HORIZONTAL 1:500

0 1m 2m 4m

VERTICAL 1:100

DRAWN BELDEN KUNG / BRIAN KIM

CHECKED JUAN UMANA

APPROVED STEPHAN MEHR

DATE 2011/09/06

FILE No.

CONTRACT No. C11-12-10

SHEET No.
10 OF 50

DIMENSIONS SHOWN ON THIS PLAN ARE
IN METRES UNLESS OTHERWISE NOTED

LEGEND

LRT TRACK CENTRELINE

EXISTING PROPERTY LINE

PROPOSED TOP OF RAIL (PROFILE)

EXISTING GROUND LINE

EAST BOUND TRACK USED AS REFERENCE LINE

E0+000.00 STATIONING ON EB TRACK

W0+000.00 STATIONING ON WB TRACK

PROPERTY REQUIRED

MATCH EXISTING

EXISTING DRIVEWAY

DESIGN VEHICLE

TAPER RATE

TOP OF SLOPE

BOTTOM OF SLOPE

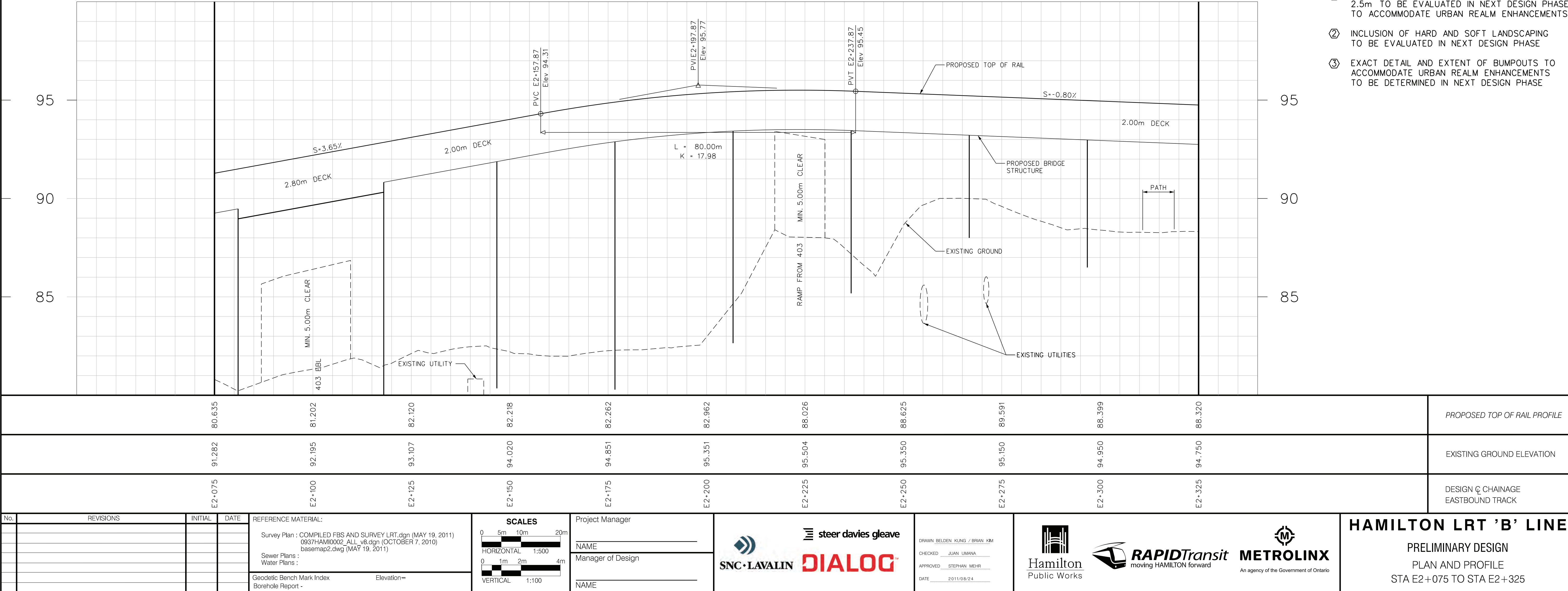
DITCH FLOW DIRECTION

NOT FOR CONSTRUCTION

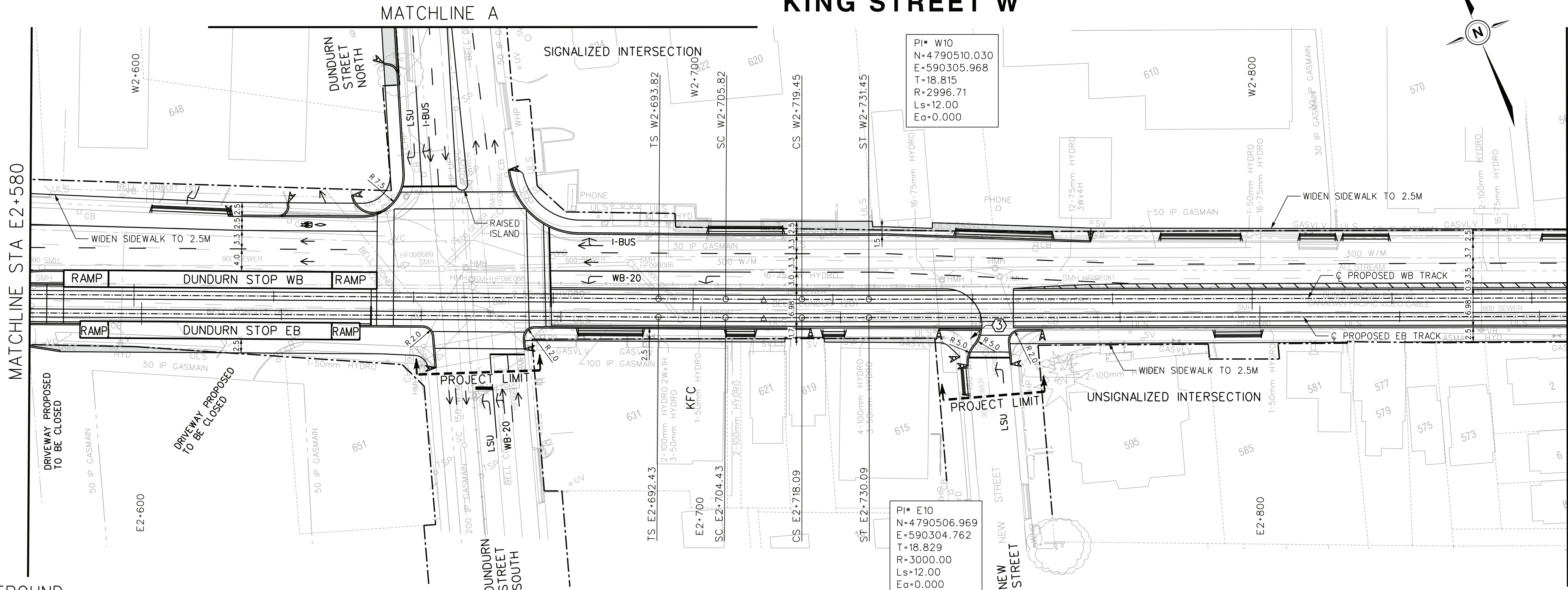
WESTBOUND

EASTBOUND

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KING STREET W

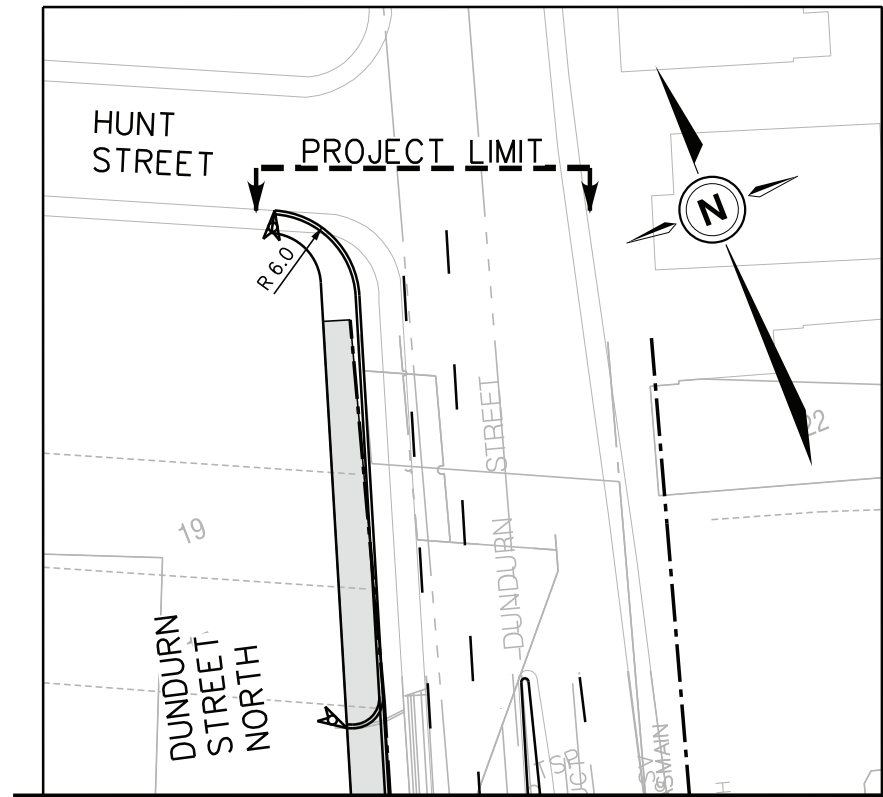


WESTBOUND

EASTBOUND

NOTES:

- ① OPPORTUNITIES FOR WIDENING SIDEWALKS BEYOND 2.5m TO BE EVALUATED IN NEXT DESIGN PHASE TO ACCOMMODATE URBAN REALM ENHANCEMENTS
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MATCHLINE A

				98.699	99.024	99.437	99.760	100.030	100.417	100.790	101.423	102.093	102.798	103.479	PROPOSED TOP OF RAIL PROFILE		
				98.747	99.086	99.425	99.764	100.103	100.442	100.808	101.398	102.094	102.789	103.485	EXISTING GROUND ELEVATION		
				E2+600	E2+625	E2+650	E2+675	E2+700	E2+725	E2+750	E2+775	E2+800	E2+825	E2+850	DESIGN C CHAINAGE EASTBOUND TRACK		
No.	REVISIONS			INITIAL	DATE	REFERENCE MATERIAL:			Project Manager			<div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div>steer davis gleave</div></div></div><div><div><div>SNC•LAVALIN</div><div>DIALOG™</div></div></div></div> <div><div><div>DRAWN: BELDEN, KUNG / BRIN, KIM</div><div>CHECKED: JUAN, UMANA</div><div>APPROVED: STEPHAN, MEHR</div><div>DATE: 2011/08/24</div></div></div> <div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div>Hamilton</div><div>Public Works</div></div></div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div>RAPIDTransit</div><div>moving HAMILTON forward</div></div></div><div><div><div>M</div></div><div><div>METROLINX</div><div>An agency of the Government of Ontario</div></div></div></div> <td colspan="3">HAMILTON LRT 'B' LINE</td>			HAMILTON LRT 'B' LINE		
															PRELIMINARY DESIGN		
															PLAN AND PROFILE		
															STA E2+580 TO STA E2+855		

FILE No.

CONTRACT No. C11-12-10

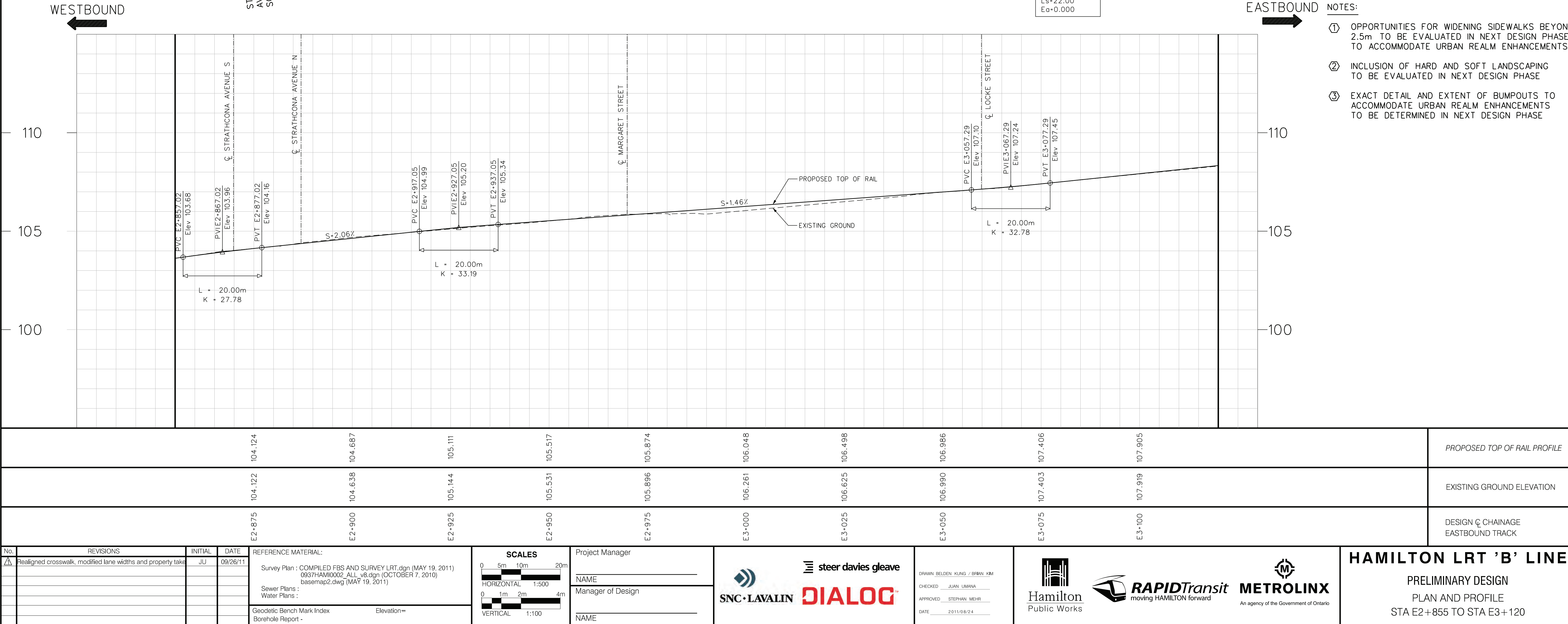
SHEET No.
13 OF 50

DIMENSIONS SHOWN ON THIS PLAN ARE
IN METRES UNLESS OTHERWISE NOTED

LEGEND

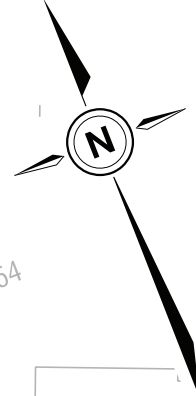
- LRT TRACK CENTRELINE
- - - - - EXISTING PROPERTY LINE
- PROPOSED TOP OF RAIL (PROFILE)
- EXISTING GROUND LINE
- EAST BOUND TRACK USED AS REFERENCE LINE
- E0+000.00 STATIONING ON EB TRACK
- W0+000.00 STATIONING ON WB TRACK
- PROPERTY REQUIRED
- MATCH EXISTING
- EXISTING DRIVEWAY
- DESIGN VEHICLE
- TAPER RATE
- TOP OF SLOPE
- BOTTOM OF SLOPE
- DITCH FLOW DIRECTION

NOT FOR CONSTRUCTION



KING STREET W

PI• W12
N=4790286.523
E=590857.889
T=24.989
R=1996.71
Ls=18.00
Ea=0.000



FILE No.

CONTRACT No. C11-12-10

SHEET No.
14 OF 50

DIMENSIONS SHOWN ON THIS PLAN ARE
IN METRES UNLESS OTHERWISE NOTED

LEGEND

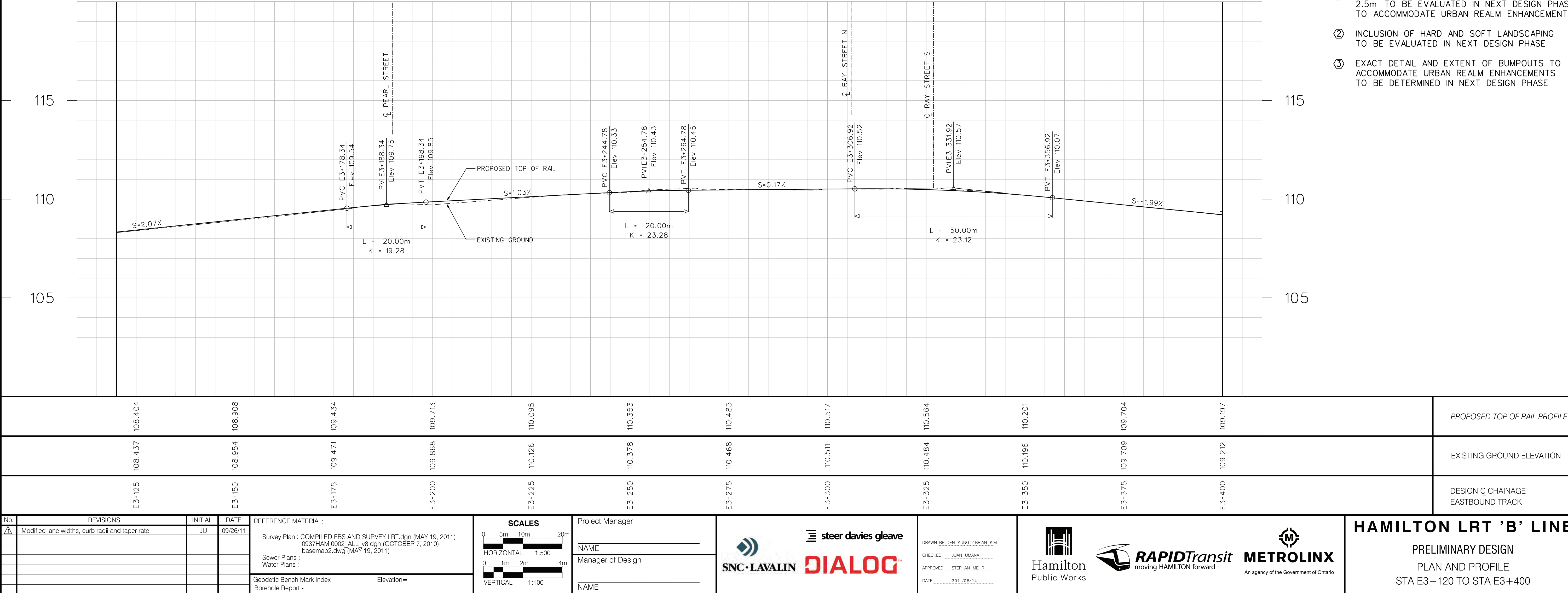
- LRT TRACK CENTRELINE
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- PROPOSED TOP OF RAIL (PROFILE)
- - - EXISTING GROUND LINE
- - - EAST BOUND TRACK USED AS REFERENCE LINE
- E0+000.00 STATIONING ON EB TRACK
- W0+000.00 STATIONING ON WB TRACK
- ▭ PROPERTY REQUIRED
- ▽ MATCH EXISTING
- ▭ EXISTING DRIVEWAY
- ▭ DESIGN VEHICLE
- XX:1 TAPER RATE
- ▭ TOP OF SLOPE
- ▭ BOTTOM OF SLOPE
- > DITCH FLOW DIRECTION

NOT FOR CONSTRUCTION

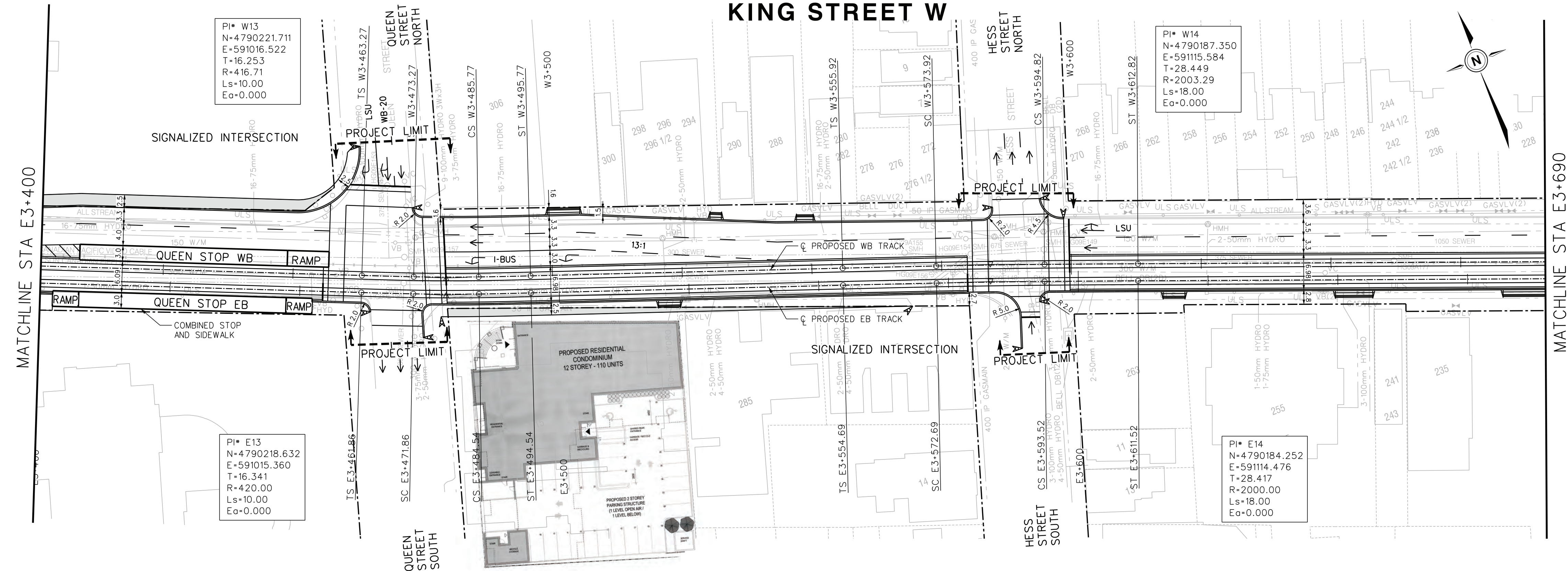
WESTBOUND

EASTBOUND

- NOTES:
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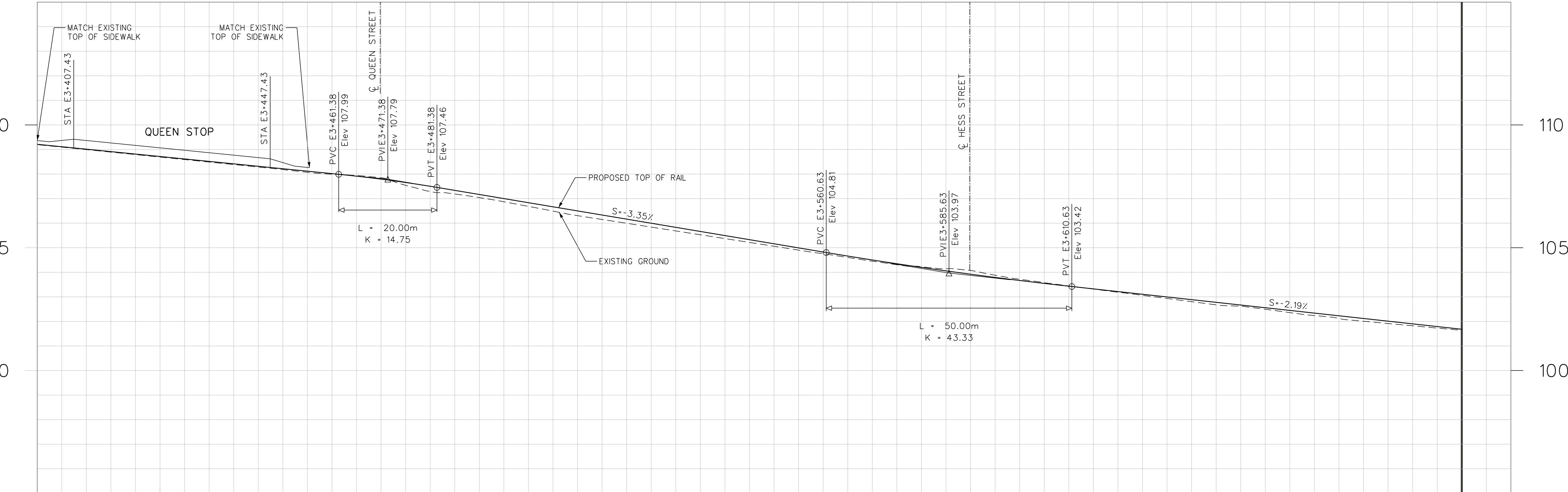


KING STREET W



WESTBOUND
←

→
EASTBOUND



E3+400	109.197	109.212	109.197	PROPOSED TOP OF RAIL PROFILE
E3+425	108.691	108.714	108.691	EXISTING GROUND ELEVATION
E3+450	108.185	108.217	108.185	DESIGN & CHAINAGE EASTBOUND TRACK
E3+475	107.541	107.656	107.541	
E3+500	106.689	106.834	106.689	
E3+525	105.841	105.997	105.841	
E3+550	105.061	105.161	105.061	
E3+575	104.308	104.348	104.308	
E3+600	103.717	103.667	103.717	
E3+625	103.063	103.106	103.063	
E3+650	102.495	102.558	102.495	
E3+675	101.913	102.010	101.913	

LEGEND

- LRT TRACK CENTRELINE
- - - EXISTING PROPERTY LINE
- - - PROPOSED TOP OF RAIL (PROFILE)
- - - EXISTING GROUND LINE
- - - EAST BOUND TRACK USED AS REFERENCE LINE
- E0+000.00 STATIONING ON EB TRACK
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<table><tr><th>No.</th><th>REVISIONS</th><th>INITIAL</th><th>DATE</th></tr><tr><td>1</td><td>Realigned crosswalk, modified curb radii</td><td>JU</td><td>09/26/11</td></tr></table>	No.	REVISIONS	INITIAL	DATE	1	Realigned crosswalk, modified curb radii	JU	09/26/11	<p>REFERENCE MATERIAL:</p> <p>Survey Plan : COMPILED FBS AND SURVEY LRT.dgn (MAY 19, 2011) 0937HAM0002_ALL_v8.dgn (OCTOBER 7, 2010) basemap2.dwg (MAY 19, 2011)</p> <p>Sewer Plans : Water Plans :</p> <p>Geodetic Bench Mark Index Borehole Report -</p>	<p>SCALES</p> <p>0 5m 10m 20m</p> <p>HORIZONTAL 1:500</p> <p>0 1m 2m 4m</p> <p>VERTICAL 1:100</p>	<p>Project Manager</p> <p>NAME</p> <p>Manager of Design</p> <p>NAME</p>	<p>SNC-LAVALIN</p> <p>DIALOG</p>	<p>DRAWN BELDEN KUNG / BRIAN KIM</p> <p>CHECKED JUAN UMANA</p> <p>APPROVED STEPHAN MEHR</p> <p>DATE 2011/08/24</p>	<p>HAMILTON Public Works</p> <p>RAPIDTransit moving HAMILTON forward</p> <p>METROLINX An agency of the Government of Ontario</p>	<p>HAMILTON LRT 'B' LINE</p> <p>PRELIMINARY DESIGN</p> <p>PLAN AND PROFILE</p> <p>STA E3+400 TO STA E3+690</p>
No.	REVISIONS	INITIAL	DATE												
1	Realigned crosswalk, modified curb radii	JU	09/26/11												


KING STREET W

FILE No.

CONTRACT No. C11-12-10

SHEET No.
16 OF 50

DIMENSIONS SHOWN ON THIS PLAN ARE
IN METRES UNLESS OTHERWISE NOTED



LEGEND

LRT TRACK CENTRELINE

EXISTING PROPERTY LINE

PROPOSED TOP OF RAIL (PROFILE)

EXISTING GROUND LINE

EAST BOUND TRACK USED AS REFERENCE LINE

STATIONING ON EB TRACK

STATIONING ON WB TRACK

PROPERTY REQUIRED

MATCH EXISTING

EXISTING DRIVEWAY

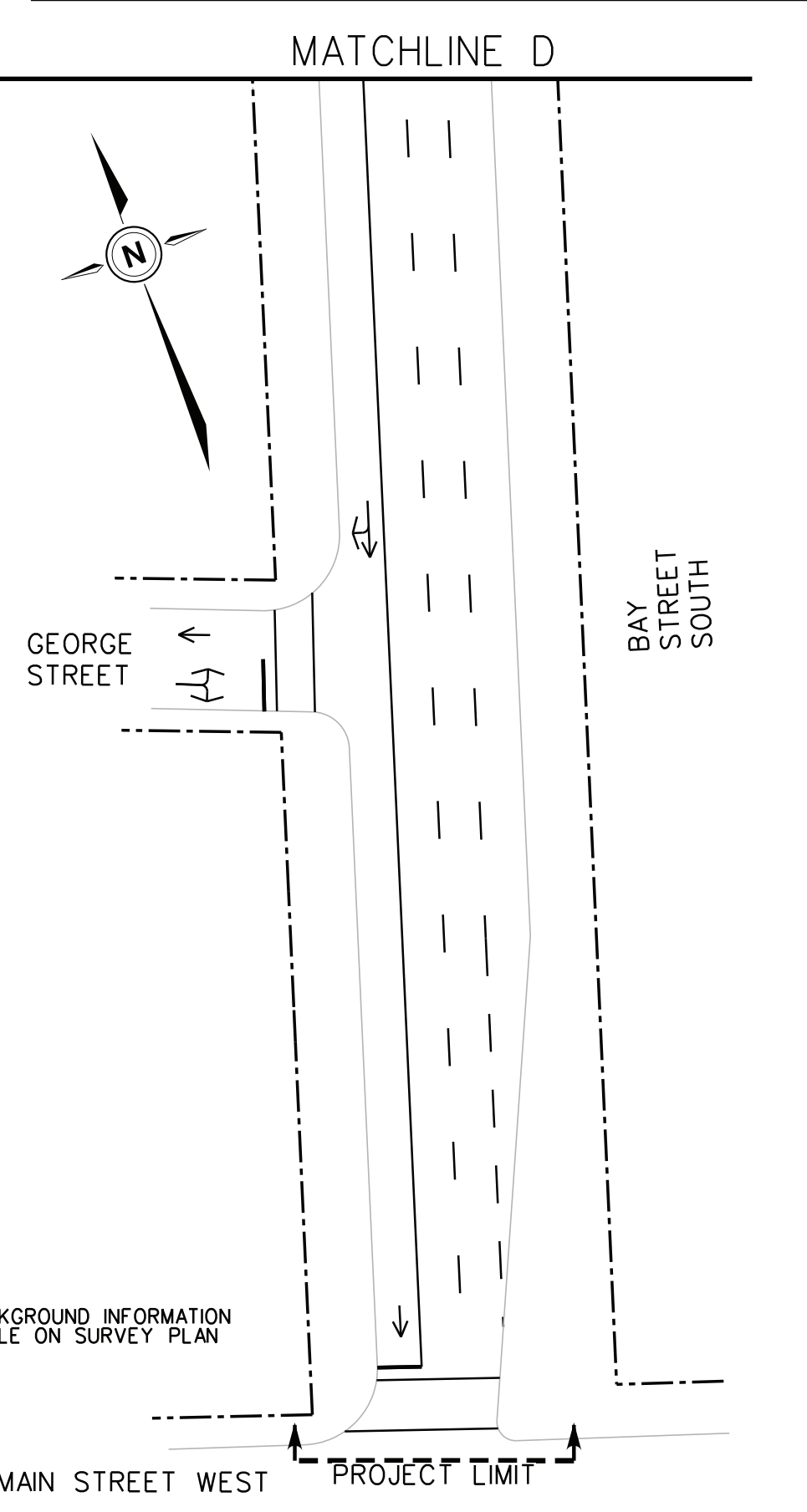
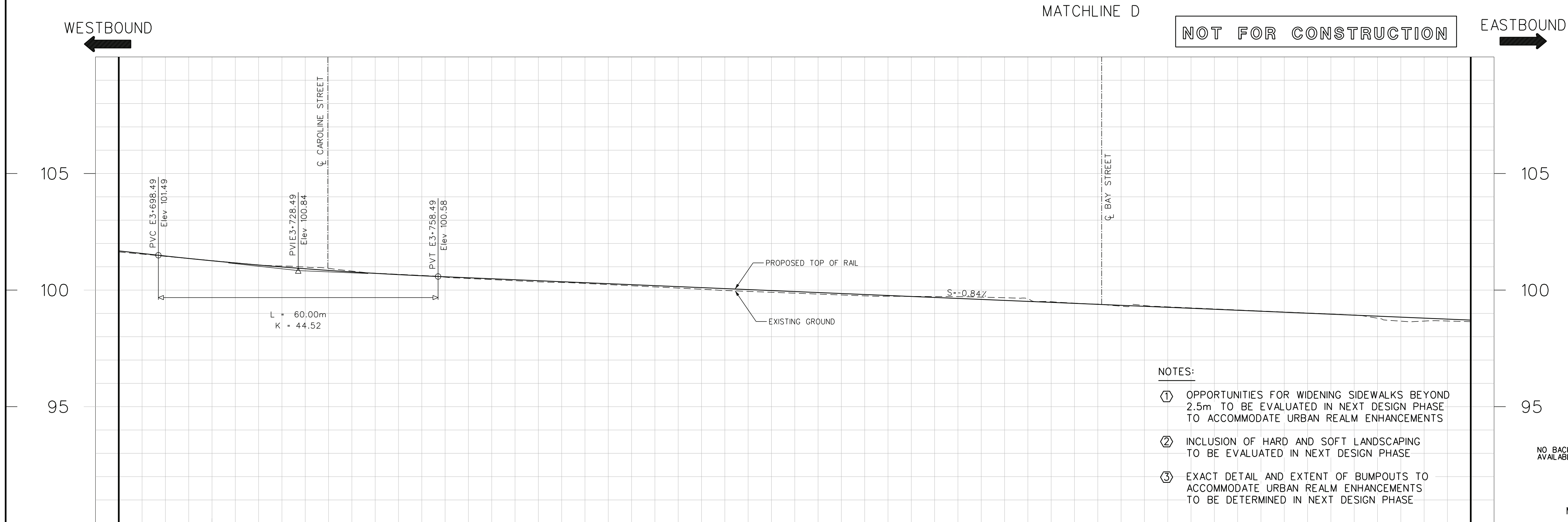
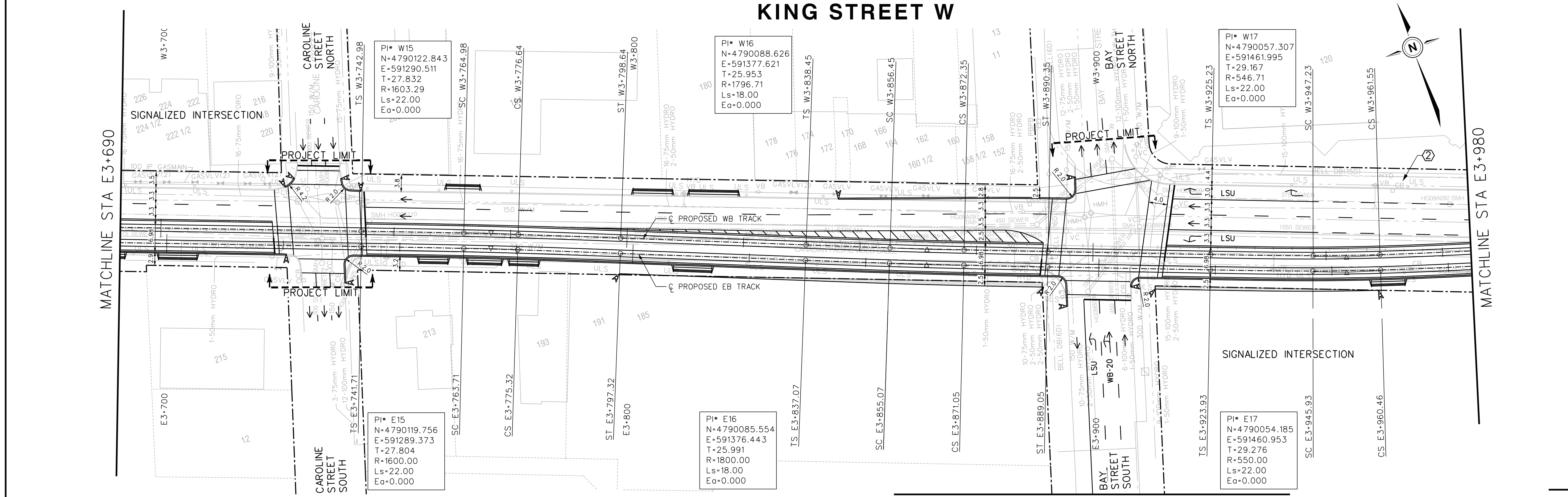
DESIGN VEHICLE

TAPER RATE

TOP OF SLOPE

BOTTOM OF SLOPE

DITCH FLOW DIRECTION



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E3+700				101.448	101.462	100.448	100.402	100.187	99.945	99.754	99.701	99.402	99.193	98.975	98.675	PROPOSED TOP OF RAIL PROFILE
E3+725				100.993	100.993	100.664	100.445	100.234	100.023	99.811	99.600	99.389	99.178	98.967	98.756	EXISTING GROUND ELEVATION
E3+750				100.677	100.664	100.664	100.445	100.234	100.023	99.811	99.600	99.389	99.178	98.967	98.756	DESIGN Q CHAINAGE EASTBOUND TRACK
E3+775				100.402	100.445	100.664	100.445	100.234	100.023	99.811	99.600	99.389	99.178	98.967	98.756	
E3+800				100.187	100.234	100.664	100.445	100.234	100.023	99.811	99.600	99.389	99.178	98.967	98.756	
E3+825				99.945	100.023	100.664	100.445	100.234	100.023	99.811	99.600	99.389	99.178	98.967	98.756	
E3+850				99.754	99.811	100.664	100.445	100.234	100.023	99.811	99.600	99.389	99.178	98.967	98.756	
E3+875				99.701	99.600	100.664	100.445	100.234	100.023	99.811	99.600	99.389	99.178	98.967	98.756	
E3+900				99.402	99.389	100.664	100.445	100.234	100.023	99.811	99.600	99.389	99.178	98.967	98.756	
E3+925				99.193	99.178	100.664	100.445	100.234	100.023	99.811	99.600	99.389	99.178	98.967	98.756	
E3+950				98.975	98.967	100.664	100.445	100.234	100.023	99.811	99.600	99.389	99.178	98.967	98.756	
E3+975				98.675	98.756	100.664	100.445	100.234	100.023	99.811	99.600	99.389	99.178	98.967	98.756	

No.

REVISIONS

INITIAL

DATE

1

Modified curb radii, design vehicle

JU

09/26/11

REFERENCE MATERIAL:
Survey Plan : COMPILED FBS AND SURVEY LRT.dgn (MAY 19, 2011)
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Sewer Plans :
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Borehole Report -

SCALES

0 5m 10m 20m

HORIZONTAL 1:500

0 1m 2m 4m

VERTICAL 1:100

Project Manager

NAME

Manager of Design

NAME

DRAWN BELDEN KUNG / BRIAN KIM

CHECKED JUAN UMANA

APPROVED STEPHAN MEHR

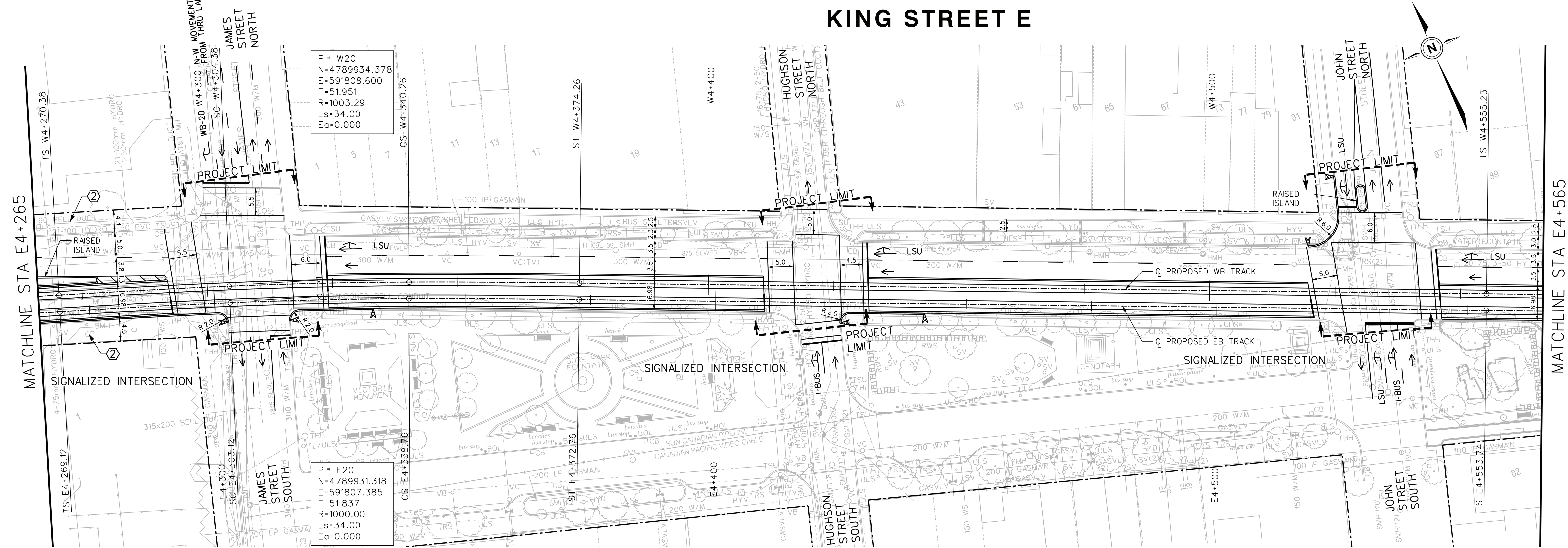
DATE 2011/08/24

HAMILTON LRT 'B' LINE

PRELIMINARY DESIGN

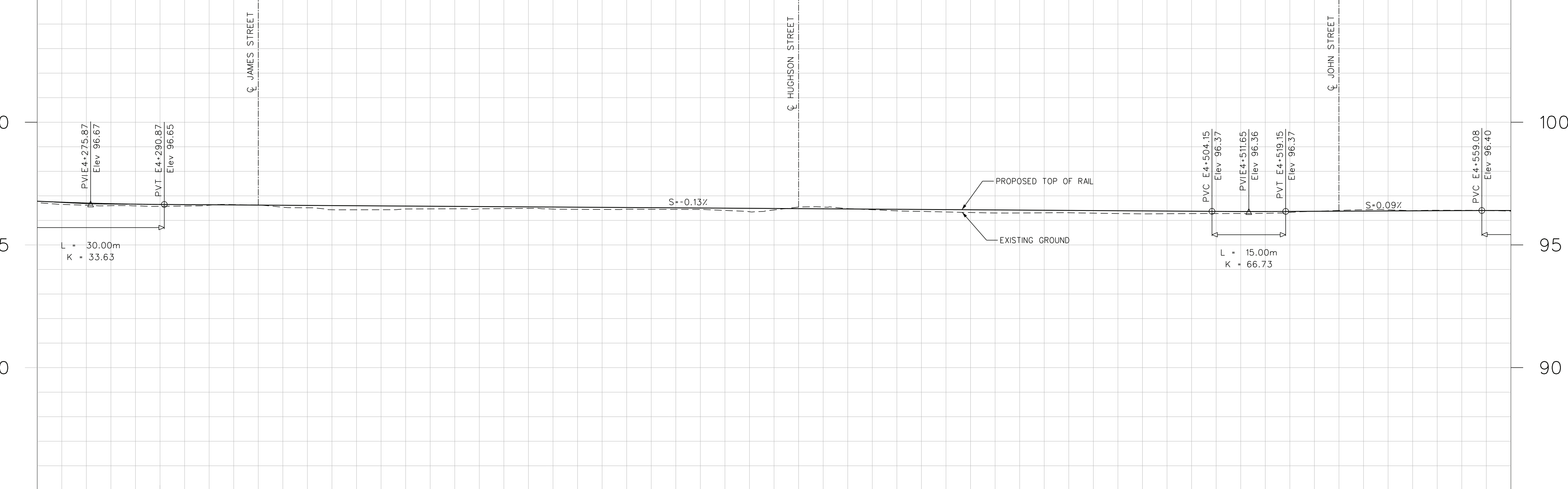
PLAN AND PROFILE

STA E3+690 TO STA E3+980



WESTBOUND

EASTBOUND



96.617	96.619	96.433	96.473	96.452	96.445	96.544	96.344	96.311	96.278	96.369	96.413	PROPOSED TOP OF RAIL PROFILE
96.707	96.637	96.604	96.571	96.538	96.505	96.472	96.440	96.407	96.374	96.374	96.402	EXISTING GROUND ELEVATION
E4+275	E4+300	E4+325	E4+350	E4+375	E4+400	E4+425	E4+450	E4+475	E4+500	E4+525	E4+550	DESIGN C CHAINAGE EASTBOUND TRACK

LEGEND

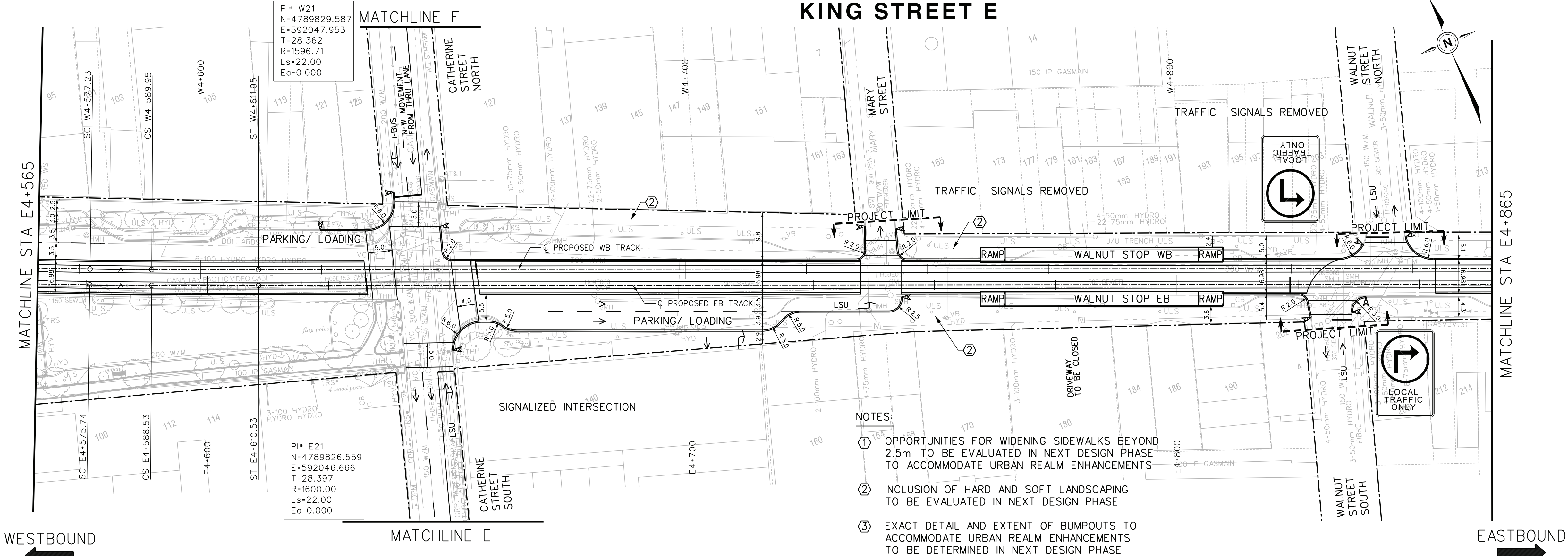
- LRT TRACK CENTRELINE
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- TAPER RATE
- TOP OF SLOPE
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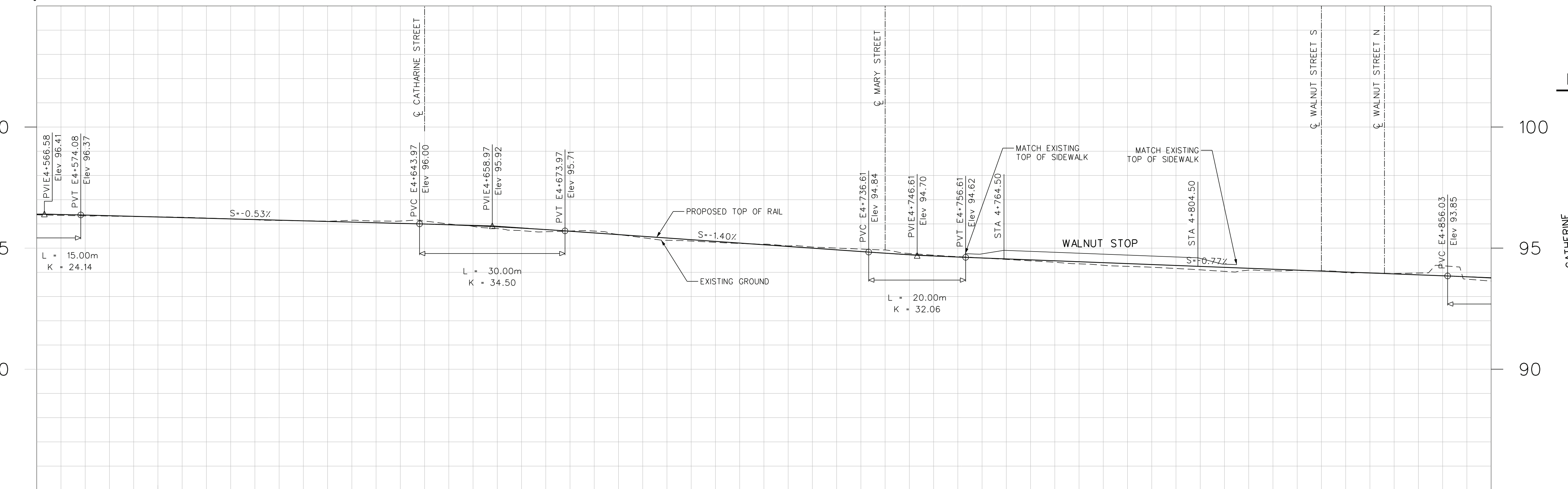
<table><tr><td>No.</td><td>REVISIONS</td><td>INITIAL</td><td>DATE</td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>	No.	REVISIONS	INITIAL	DATE													<p>REFERENCE MATERIAL:</p> <p>Survey Plan : COMPILED FBS AND SURVEY LRT.dgn (MAY 19, 2011) 0937HAMI0002_ALL_v8.dgn (OCTOBER 7, 2010) basemap2.dwg (MAY 19, 2011)</p> <p>Sewer Plans : Water Plans :</p> <p>Geodetic Bench Mark Index Borehole Report -</p>	<p>SCALES</p> <p>0 5m 10m 20m</p> <p>HORIZONTAL 1:500</p> <p>0 1m 2m 4m</p> <p>VERTICAL 1:100</p>	<p>Project Manager</p> <p>NAME</p> <p>Manager of Design</p> <p>NAME</p>	<p>SNC-LAVALIN</p> <p>steer daves gleave</p> <p>DIALOG</p>	<p>DRAWN BELDEN KLING / BRIAN KIM</p> <p>CHECKED JUAN UMANA</p> <p>APPROVED STEPHAN MEHR</p> <p>DATE 2011/08/24</p>	<p>Hamilton Public Works</p> <p>RAPIDTransit moving HAMILTON forward</p> <p>METROLINX An agency of the Government of Ontario</p>	<p>HAMILTON LRT 'B' LINE</p> <p>PRELIMINARY DESIGN</p> <p>PLAN AND PROFILE</p> <p>STA E4+265 TO STA E4+565</p>
No.	REVISIONS	INITIAL	DATE																				

KING STREET E



WESTBOUND

EASTBOUND

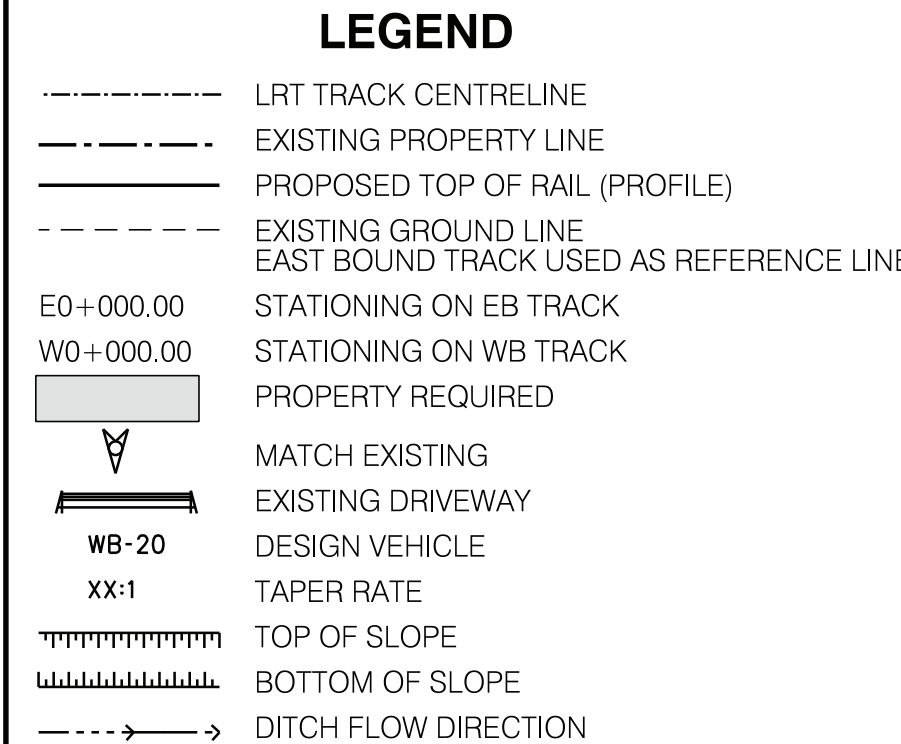


LEGEND

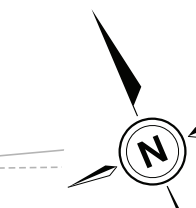
- LRT TRACK CENTRELINE
- - - EXISTING PROPERTY LINE
- - - PROPOSED TOP OF RAIL (PROFILE)
- - - EXISTING GROUND LINE
- - - EAST BOUND TRACK USED AS REFERENCE LINE
- E0+000.00 STATIONING ON EB TRACK
- W0+000.00 STATIONING ON WB TRACK
- PROPERTY REQUIRED
- MATCH EXISTING
- EXISTING DRIVEWAY
- DESIGN VEHICLE
- TAPER RATE
- TOP OF SLOPE
- BOTTOM OF SLOPE
- DITCH FLOW DIRECTION

NOT FOR CONSTRUCTION

										96.331										96.242										96.114										95.997										95.707										95.293										95.045										94.709										94.417										94.160										94.087										93.971										PROPOSED TOP OF RAIL PROFILE									
										96.347										96.221										96.094										95.962										95.698										95.349										94.999										94.678										94.478										94.284										94.091										93.897										EXISTING GROUND ELEVATION									
										E4+575										E4+600										E4+625										E4+650										E4+675										E4+700										E4+725										E4+750										E4+775										E4+800										E4+825										E4+850										DESIGN C/C CHAINAGE EASTBOUND TRACK									
No.	REVISIONS									INITIAL	DATE	REFERENCE MATERIAL:	SCALES	Project Manager	<div><div><div><div><div></div><div>steer davis gleave</div></div><div><div>SNC • LAVALIN</div><div>DIALOG</div></div></div><div><div><div><div></div><div>DRAWN BELDEN KUNG / BRIAN KIM</div></div><div><div>CHECKED JUAN UMANA</div></div><div><div>APPROVED STEPHAN MEHR</div></div><div><div>DATE 2011/08/24</div></div></div><div><div><div><div></div><div>Hamilton</div><div>Public Works</div></div><div><div><div><div></div><div>RAPIDTransit</div><div>moving HAMILTON forward</div></div><div><div><div><div></div><div>METROLINX</div><div>An agency of the Government of Ontario</div></div></div></div></div></div><div><div><div><div></div><div>HAMILTON LRT 'B' LINE</div></div><div><div><div><div></div><div>PRELIMINARY DESIGN</div><div>PLAN AND PROFILE</div><div>STA E4+565 TO STA E4+865</div></div></div></div></div></div></div></div></div></div></div>																																																																																																																												
<div></div>	Modified throat, ramp length									JU	09/26/11	Survey Plan : COMPILED FBS AND SURVEY LRT.dgn (MAY 19, 2011) 0937HAM0002_ALL_v8.dgn (OCTOBER 7, 2010) basemap2.dwg (MAY 19, 2011)	<div><div><div><div></div><div>0</div><div>5m</div><div>10m</div><div>20m</div></div><div><div>HORIZONTAL</div><div>1:500</div></div><div><div><div><div></div><div>0</div><div>1m</div><div>2m</div><div>4m</div></div><div><div>VERTICAL</div><div>1:100</div></div></div></div></div></div>	NAME																																																																																																																													
												Manager of Design	NAME																																																																																																																														



MATCHLINE STA E4+865



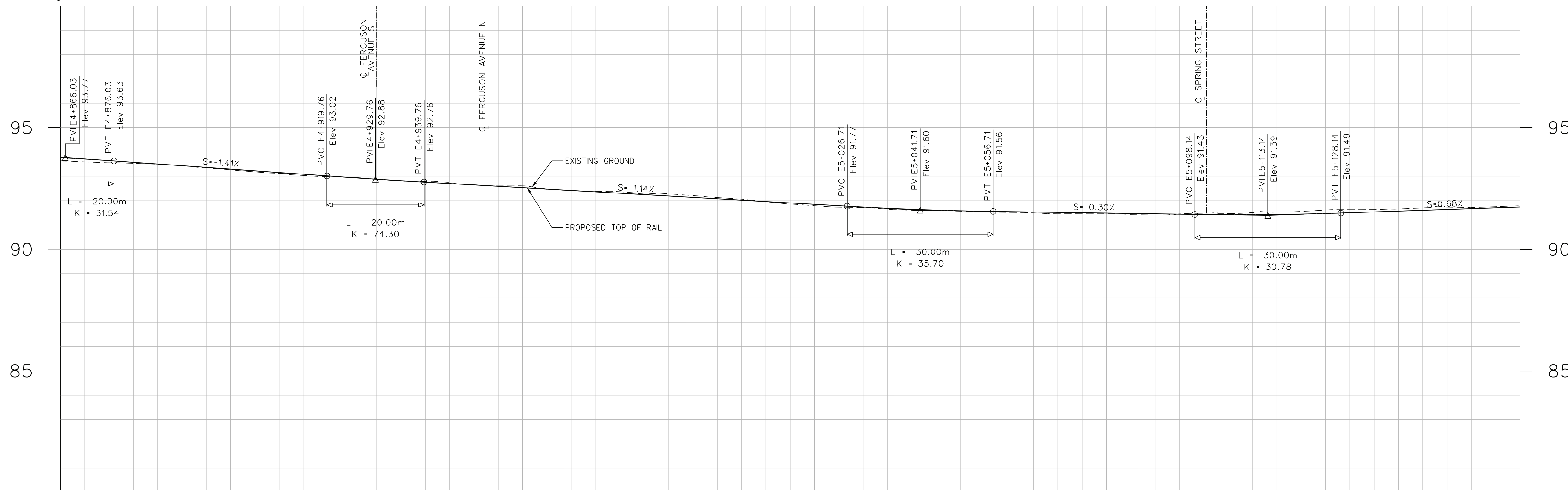
MATCHLINE STA E5+165

WESTBOUND

EASTBOUND

NOTES:


- ① OPPORTUNITIES FOR WIDENING SIDEWALKS BEYOND 2.5m TO BE EVALUATED IN NEXT DESIGN PHASE TO ACCOMMODATE URBAN REALM ENHANCEMENT
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PROPOSED TOP OF RAIL PROFILE

EXISTING GROUND ELEVATION

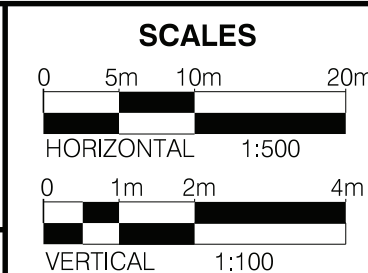
DESIGN & CHAINAGE
EASTBOUND TRACK

No.	REVISIONS	INITIAL	DATE
	Removed pedestrian crossing	JU	09/26/1

REFERENCE MATERIAL:

Survey Plan : COMPILED FBS AND SURVEY LRT.dgn (MAY 19, 2011)
0937HAMI0002_ALL_v8.dgn (OCTOBER 7, 2010)
basemap2.dwg (MAY 19, 2011)

Geodetic Bench Mark Index	Elevation
Borehole Report -	



Project Manager

NAME _____

Manager of Design

NAME _____



DRAWN BELDEN KUNG / BRIAN
CHECKED JUAN UMANA
APPROVED STEPHAN MEHR
DATE 2011/08/24



METROLINX
An agency of the Government of Ontario

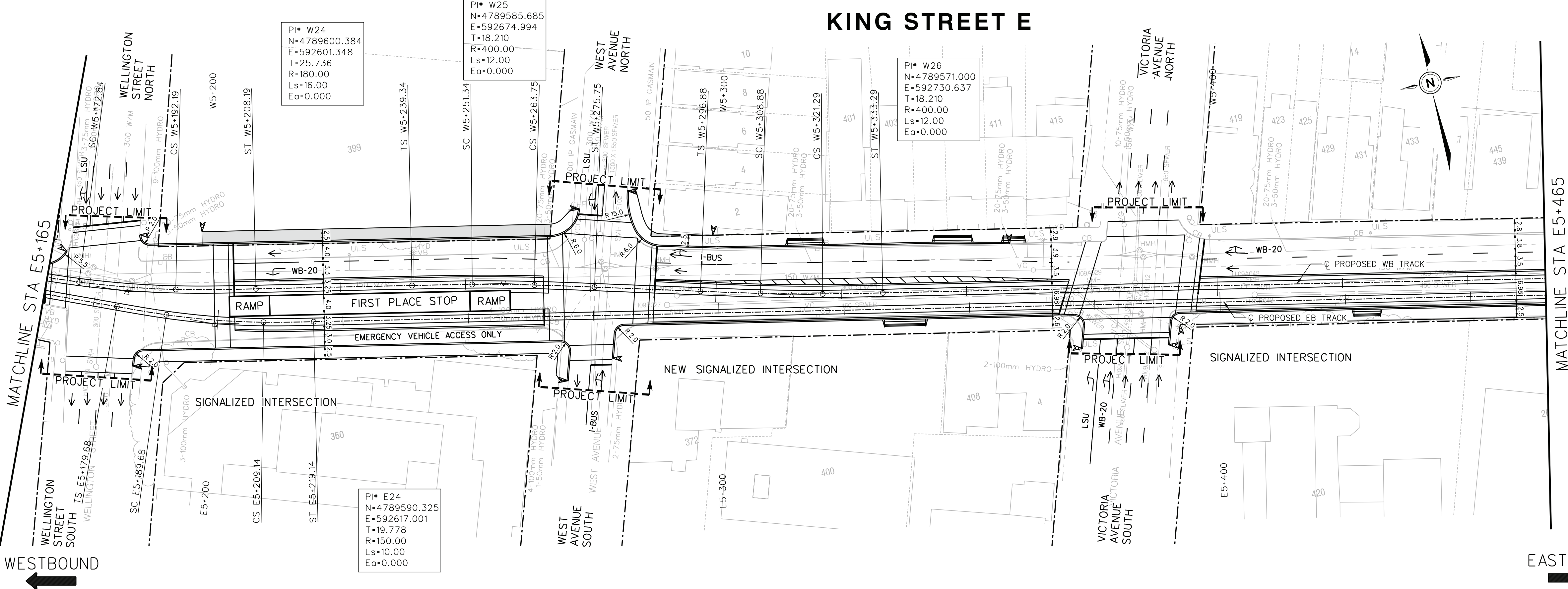
HAMILTON LRT 'B' LINE

PRELIMINARY DESIGN

PLAN AND PROFILE

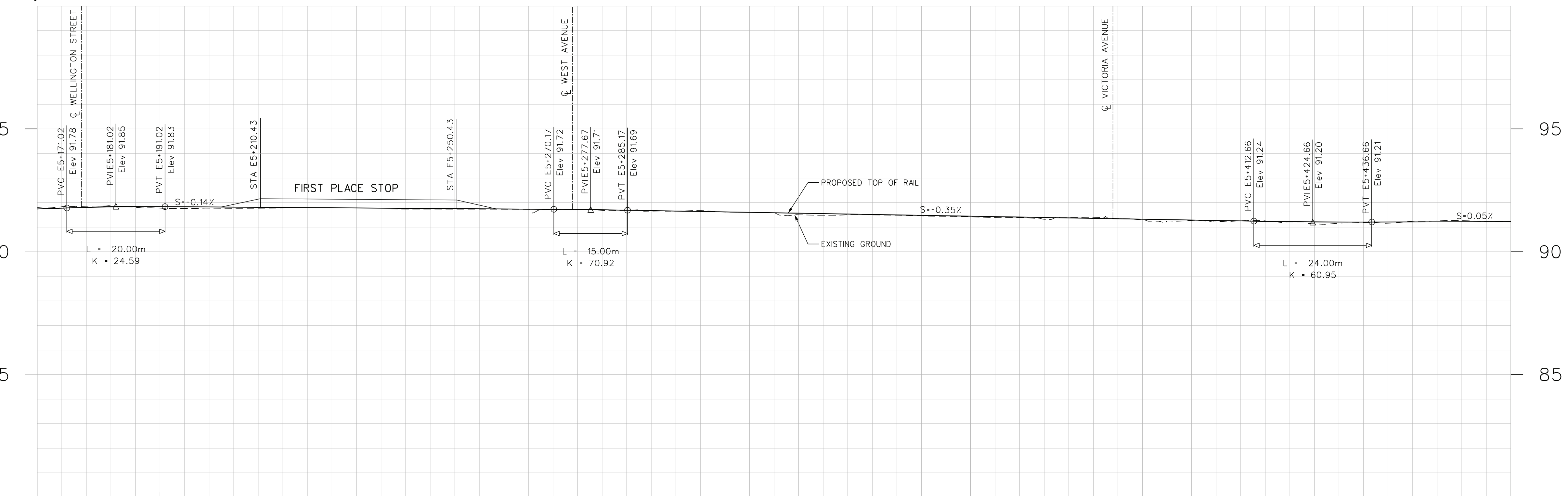
STA E4+865 TO STA E5+165

KING STREET E



WESTBOUND

EASTBOUND



91.848	91.743	91.736	91.730	91.719	91.671	91.483	91.438	91.390	91.272	91.136	91.253
91.803	91.821	91.787	91.752	91.716	91.636	91.549	91.462	91.375	91.288	91.213	91.213
E5+175	E5+200	E5+225	E5+250	E5+275	E5+300	E5+325	E5+350	E5+375	E5+400	E5+425	E5+450

LEGEND

- LRT TRACK CENTRELINE
- - - EXISTING PROPERTY LINE
- PROPOSED TOP OF RAIL (PROFILE)
- - - EXISTING GROUND LINE
- - - EAST BOUND TRACK USED AS REFERENCE LINE
- E0+000.00 STATIONING ON EB TRACK
- W0+000.00 STATIONING ON WB TRACK
- PROPERTY REQUIRED
- MATCH EXISTING
- EXISTING DRIVEWAY
- DESIGN VEHICLE
- XX:1 TAPER RATE
- TOP OF SLOPE
- BOTTOM OF SLOPE
- DITCH FLOW DIRECTION

NOT FOR CONSTRUCTION

- NOTES:
- OPPORTUNITIES FOR WIDENING SIDEWALKS BEYOND 2.5m TO BE EVALUATED IN NEXT DESIGN PHASE TO ACCOMMODATE URBAN REALM ENHANCEMENTS
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<table><tr><td>No.</td><td>REVISIONS</td><td>INITIAL</td><td>DATE</td></tr><tr><td>1</td><td>Modified taper rate, lane widths</td><td>JU</td><td>08/26/11</td></tr></table>	No.	REVISIONS	INITIAL	DATE	1	Modified taper rate, lane widths	JU	08/26/11	REFERENCE MATERIAL: Survey Plan : COMPILED FBS AND SURVEY LRT.dgn (MAY 19, 2011) 0937HAM0002_ALL_v8.dgn (OCTOBER 7, 2010) basemap2.dwg (MAY 19, 2011) Sewer Plans : Water Plans : Geodetic Bench Mark Index Borehole Report -	SCALES 0 5m 10m 20m HORIZONTAL 1:500 0 1m 2m 4m VERTICAL 1:100	Project Manager NAME Manager of Design NAME		<table><tr><td>DRAWN</td><td>BELDEN KUNG / BRIAN KIM</td></tr><tr><td>CHECKED</td><td>JUAN UMANA</td></tr><tr><td>APPROVED</td><td>STEPHAN MEHR</td></tr><tr><td>DATE</td><td>2011/08/24</td></tr></table>	DRAWN	BELDEN KUNG / BRIAN KIM	CHECKED	JUAN UMANA	APPROVED	STEPHAN MEHR	DATE	2011/08/24		HAMILTON LRT 'B' LINE PRELIMINARY DESIGN PLAN AND PROFILE STA E5+165 TO STA E5+465
No.	REVISIONS	INITIAL	DATE																				
1	Modified taper rate, lane widths	JU	08/26/11																				
DRAWN	BELDEN KUNG / BRIAN KIM																						
CHECKED	JUAN UMANA																						
APPROVED	STEPHAN MEHR																						
DATE	2011/08/24																						

FILE No.

CONTRACT No. C11-12-10

SHEET No.
22 OF 50

DIMENSIONS SHOWN ON THIS PLAN ARE
IN METRES UNLESS OTHERWISE NOTED

LEGEND

LRT TRACK CENTRELINE

EXISTING PROPERTY LINE

PROPOSED TOP OF RAIL (PROFILE)

EXISTING GROUND LINE

EAST BOUND TRACK USED AS REFERENCE LINE

STATIONING ON EB TRACK

STATIONING ON WB TRACK

PROPERTY REQUIRED

MATCH EXISTING

EXISTING DRIVEWAY

DESIGN VEHICLE

TAPER RATE

TOP OF SLOPE

BOTTOM OF SLOPE

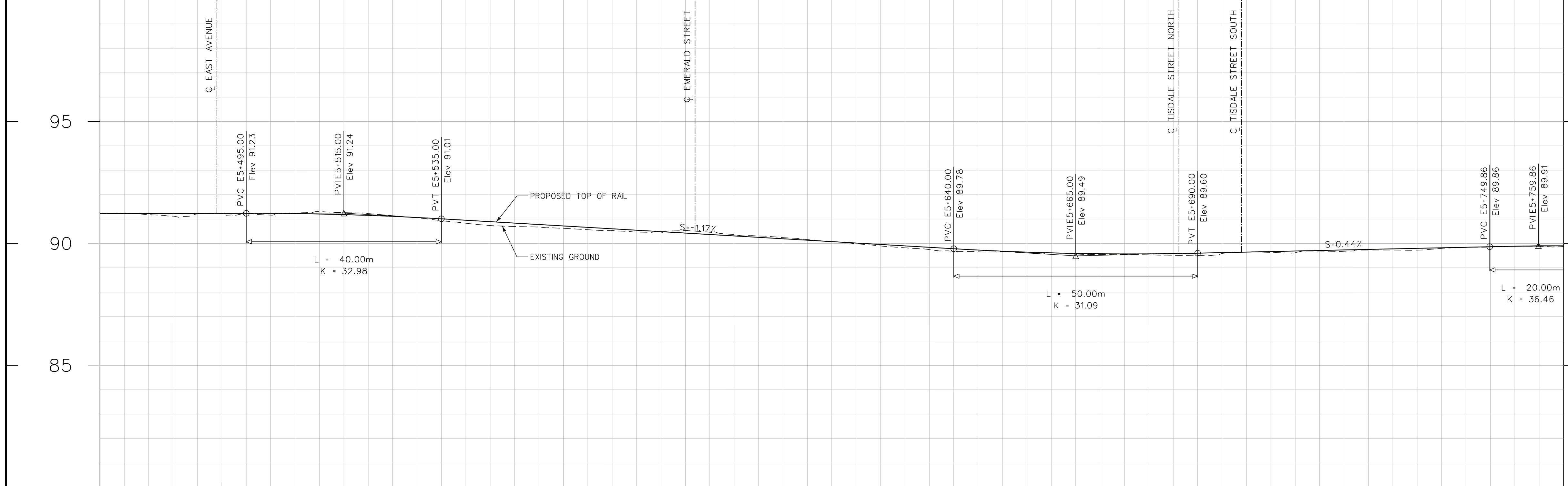
DITCH FLOW DIRECTION

NOT FOR CONSTRUCTION

WESTBOUND

EASTBOUND

- NOTES:
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	91.180	91.160	91.136	90.694	90.465	90.304	89.896	89.667	89.551	89.650	89.728	89.854	PROPOSED TOP OF RAIL PROFILE
	91.224	91.232	91.111	90.834	90.542	90.250	89.958	89.682	89.571	89.645	89.755	89.865	EXISTING GROUND ELEVATION
	E5+475	E5+500	E5+525	E5+550	E5+575	E5+600	E5+625	E5+650	E5+675	E5+700	E5+725	E5+750	DESIGN Q CHAINAGE EASTBOUND TRACK

No.

REVISIONS

INITIAL

DATE

REFERENCE MATERIAL:

Survey Plan : COMPILED FBS AND SURVEY LRT.dgn (MAY 19, 2011)
0937HAMI0002_ALL_v8.dgn (OCTOBER 7, 2010)
basemap2.dwg (MAY 19, 2011)

Sewer Plans :
Water Plans :

Geodetic Bench Mark Index
Borehole Report -

SCALES

0 5m 10m 20m

HORIZONTAL 1:500

0 1m 2m 4m

VERTICAL 1:100

Project Manager

NAME

Manager of Design

NAME

DRAWN BELDEN KUNG / BRIAN KIM
CHECKED JUAN UMANA
APPROVED STEPHAN MEHR
DATE 2011/08/24

HAMILTON LRT 'B' LINE

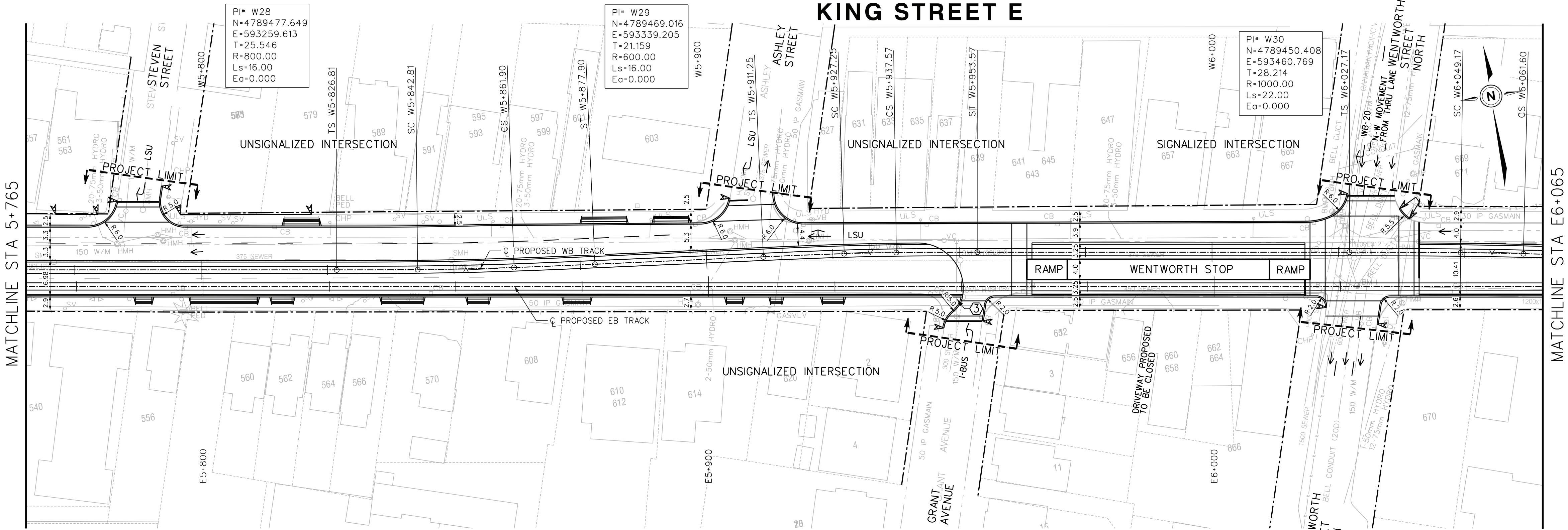
PRELIMINARY DESIGN

PLAN AND PROFILE

STA E5+465 TO STA E5+765

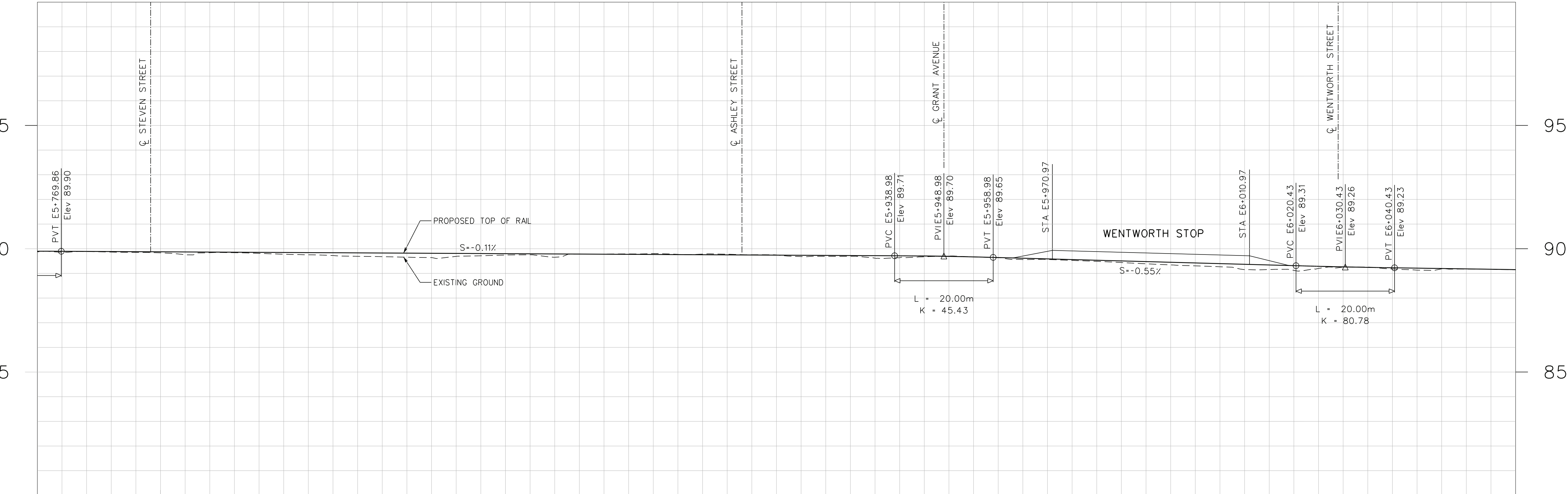
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KIMBR 2011-10-06 12:38:26 PM

KING STREET E



WESTBOUND

EASTBOUND



NOTES:

- ① OPPORTUNITIES FOR WIDENING SIDEWALKS BEYOND 2.5m TO BE EVALUATED IN NEXT DESIGN PHASE TO ACCOMMODATE URBAN REALM ENHANCEMENTS
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No.	REVISIONS	INITIAL	DATE
1	Modified curb line, curb radii	JU	09/26/11

REFERENCE MATERIAL:

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0937HAM0002_ALL_v8.dgn (OCTOBER 7, 2010)
basemap2.dwg (MAY 19, 2011)

Sewer Plans :

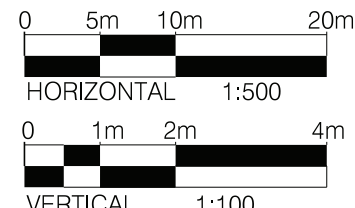
Water Plans :

Geodetic Bench Mark Index

Borehole Report -

Elevation=

SCALES



Project Manager

NAME

Manager of Design

NAME



DRAWN BELDEN KUNG / BRIAN KIM
CHECKED JUAN UMANA
APPROVED STEPHAN MEHR
DATE 2011/08/24



HAMILTON LRT 'B' LINE

PRELIMINARY DESIGN

PLAN AND PROFILE

STA E5+765 TO STA E6+065

FILE No.

CONTRACT No. C11-12-10

SHEET No.
24 OF 50

DIMENSIONS SHOWN ON THIS PLAN ARE
IN METRES UNLESS OTHERWISE NOTED

LEGEND

LRT TRACK CENTRELINE

- - - -

EXISTING PROPERTY LINE

PROPOSED TOP OF RAIL (PROFILE)

EXISTING GROUND LINE

EAST BOUND TRACK USED AS REFERENCE LINE

E0+000.00

STATIONING ON EB TRACK

W0+000.00

STATIONING ON WB TRACK

PROPERTY REQUIRED

MATCH EXISTING

EXISTING DRIVEWAY

WB-20

DESIGN VEHICLE

XX:1

TAPER RATE

TOP OF SLOPE

BOTTOM OF SLOPE

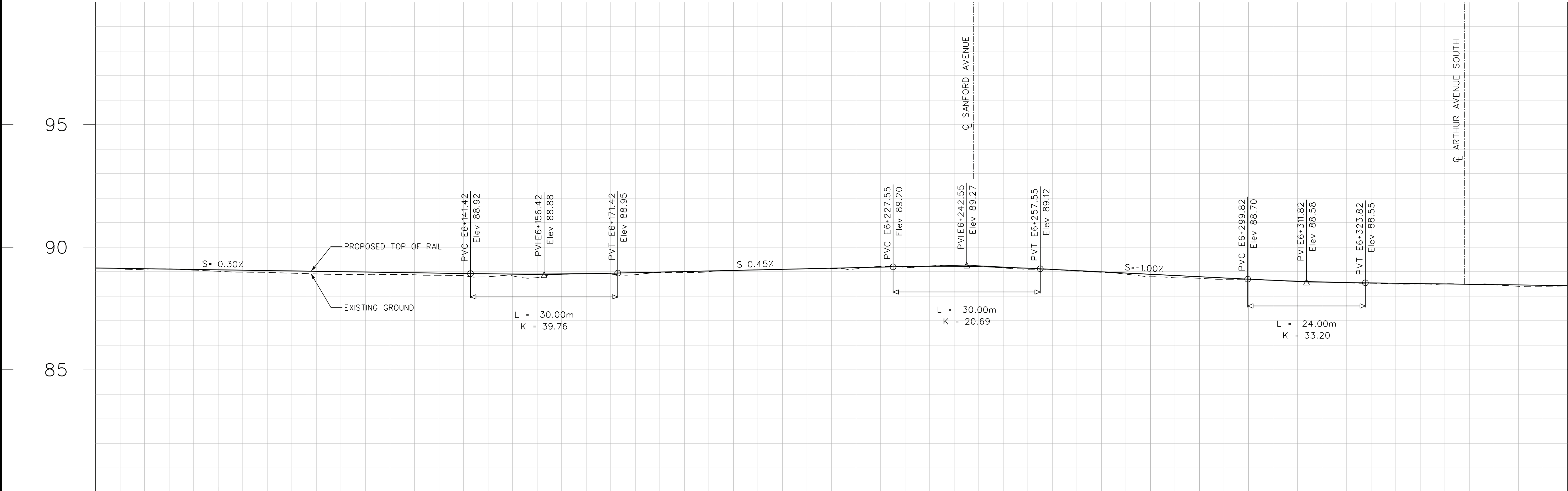
DITCH FLOW DIRECTION

NOT FOR CONSTRUCTION

WESTBOUND
←

→
EASTBOUND

- NOTES:
- ① OPPORTUNITIES FOR WIDENING SIDEWALKS BEYOND 2.5m TO BE EVALUATED IN NEXT DESIGN PHASE TO ACCOMMODATE URBAN REALM ENHANCEMENTS
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89.103	88.971	88.887	88.830	88.878	89.079	89.213	89.156	88.900	88.694	88.530	88.479	PROPOSED TOP OF RAIL PROFILE
89.123	89.048	88.973	88.907	88.963	89.076	89.190	89.181	88.946	88.697	88.543	88.475	EXISTING GROUND ELEVATION
E6+075	E6+100	E6+125	E6+150	E6+175	E6+200	E6+225	E6+250	E6+275	E6+300	E6+325	E6+350	DESIGN ϕ CHAINAGE EASTBOUND TRACK

No.

REVISIONS

INITIAL

DATE

REFERENCE MATERIAL:

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0937HAMI0002_ALL_v8.dgn (OCTOBER 7, 2010)
basemap2.dwg (MAY 19, 2011)

Sewer Plans :
Water Plans :

Geodetic Bench Mark Index
Borehole Report -

SCALES

0 5m 10m 20m

HORIZONTAL 1:500

0 1m 2m 4m

VERTICAL 1:100

Project Manager

NAME

Manager of Design

NAME

DRAWN BELDEN KLING / BRIAN KIM
CHECKED JUAN UMANA
APPROVED STEPHAN MEHR
DATE 2011/08/24

HAMILTON LRT 'B' LINE

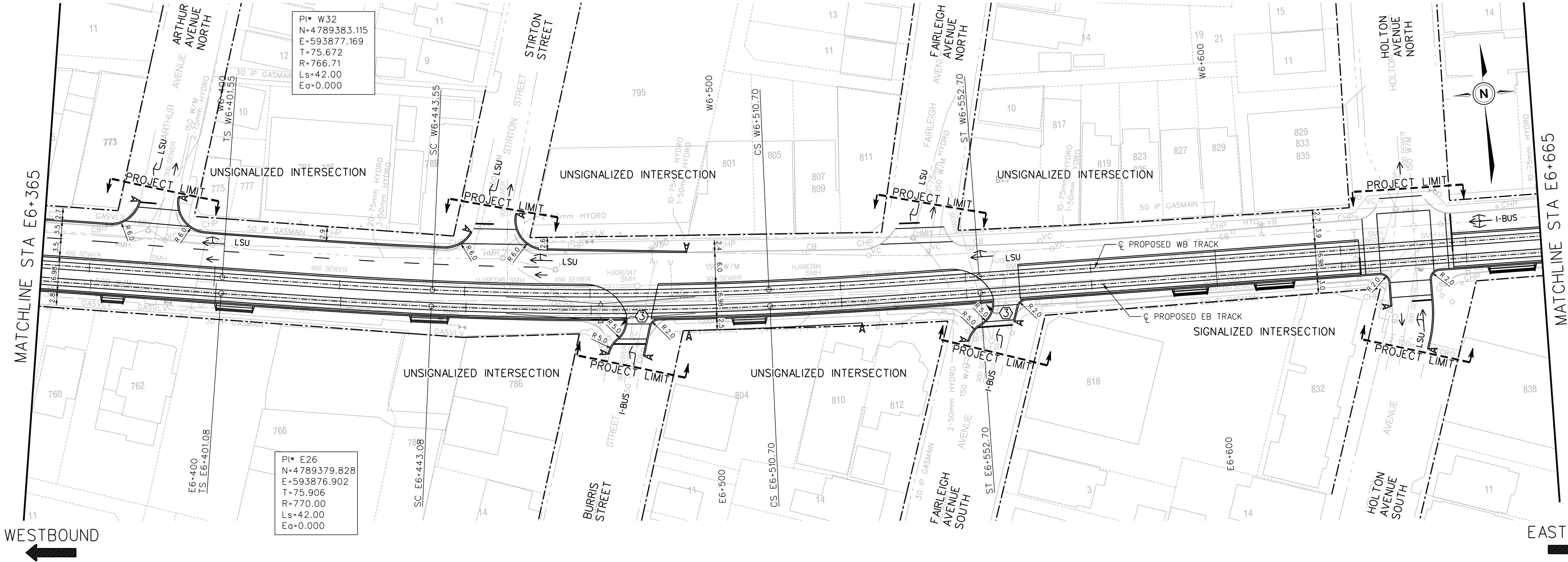
PRELIMINARY DESIGN

PLAN AND PROFILE

STA E6+065 TO STA E6+365

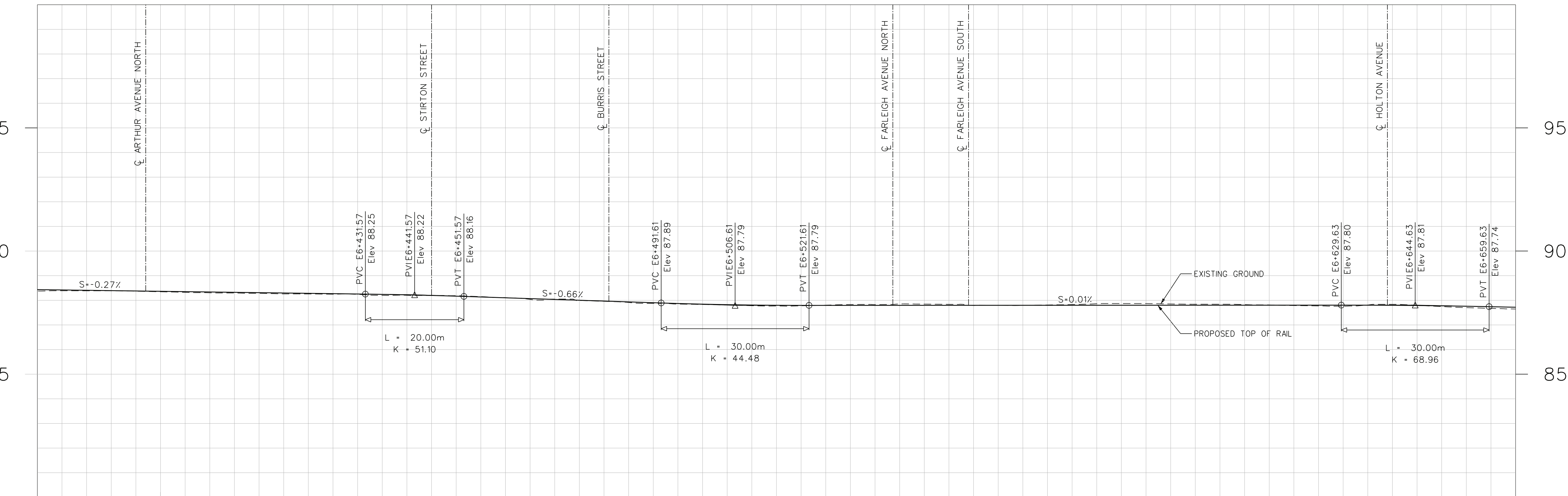
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KIMBR 2011-10-06 12:40:26 PM

KING STREET E



WESTBOUND

EASTBOUND



88.384	88.303	88.246	88.187	87.984	87.829	87.802	87.837	87.828	87.840	87.771	87.744	PROPOSED TOP OF RAIL PROFILE
88.406	88.338	88.270	88.168	88.002	87.844	87.794	87.796	87.799	87.801	87.803	87.776	EXISTING GROUND ELEVATION
E6+375	E6+400	E6+425	E6+450	E6+475	E6+500	E6+525	E6+550	E6+575	E6+600	E6+625	E6+650	DESIGN C CHAINAGE EASTBOUND TRACK

NOTES:

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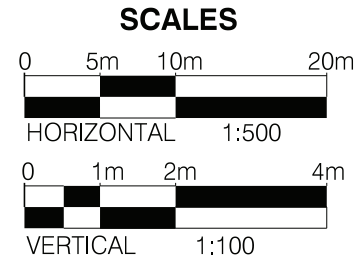
LEGEND

- LRT TRACK CENTRELINE
- EXISTING PROPERTY LINE
- PROPOSED TOP OF RAIL (PROFILE)
- EXISTING GROUND LINE
- EAST BOUND TRACK USED AS REFERENCE LINE
- STATIONING ON EB TRACK
- STATIONING ON WB TRACK
- PROPERTY REQUIRED
- MATCH EXISTING
- EXISTING DRIVEWAY
- DESIGN VEHICLE
- TAPER RATE
- TOP OF SLOPE
- BOTTOM OF SLOPE
- DITCH FLOW DIRECTION

NOT FOR CONSTRUCTION

No.	REVISIONS	INITIAL	DATE

REFERENCE MATERIAL:
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0937HAMI0002_ALL_v8.dgn (OCTOBER 7, 2010)
basemap2.dwg (MAY 19, 2011)
Sewer Plans :
Water Plans :
Geodetic Bench Mark Index
Borehole Report -



Project Manager
NAME
Manager of Design
NAME



DRAWN BELDEN KUNG / BRIAN KIM
CHECKED JUAN UMANA
APPROVED STEPHAN MEHR
DATE 2011/08/24



HAMILTON LRT 'B' LINE
PRELIMINARY DESIGN
PLAN AND PROFILE
STA E6+365 TO STA E6+665

KING STREET E

FILE No.

CONTRACT No. C11-12-10

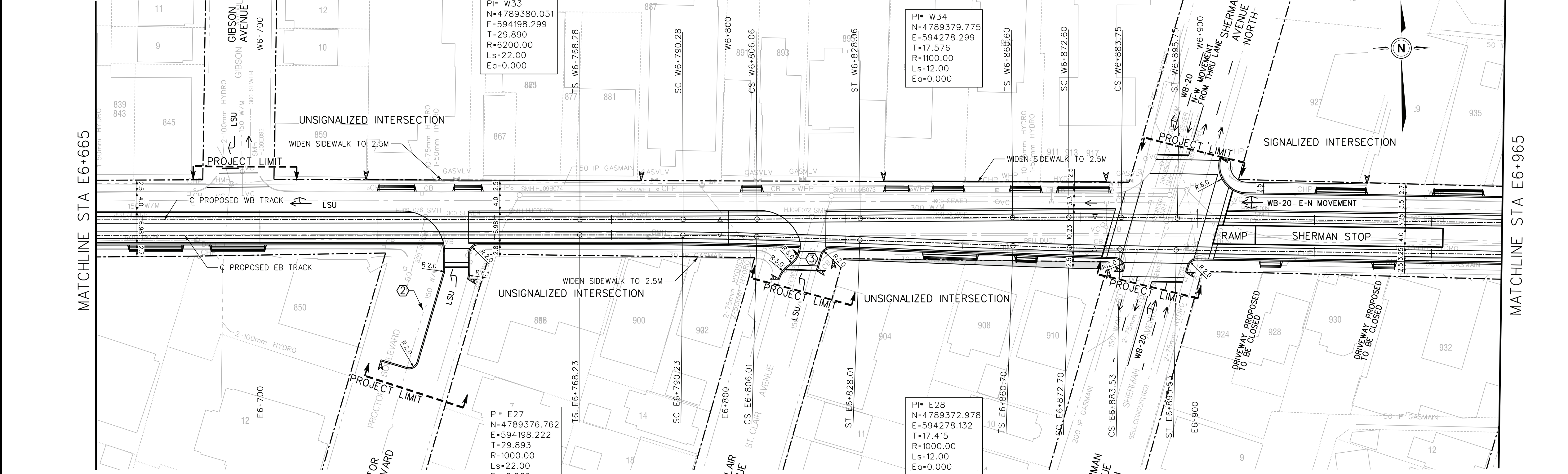
SHEET No.
26 OF 50

DIMENSIONS SHOWN ON THIS PLAN ARE
IN METRES UNLESS OTHERWISE NOTED

LEGEND

- LRT TRACK CENTRELINE
- - - EXISTING PROPERTY LINE
- PROPOSED TOP OF RAIL (PROFILE)
- - - EXISTING GROUND LINE
- - - EAST BOUND TRACK USED AS REFERENCE LINE
- E0+000.00 STATIONING ON EB TRACK
- W0+000.00 STATIONING ON WB TRACK
- PROPERTY REQUIRED
- ▲ MATCH EXISTING
- ▬ EXISTING DRIVEWAY
- ▬ DESIGN VEHICLE
- XX:1 TAPER RATE
- ▬ TOP OF SLOPE
- ▬ BOTTOM OF SLOPE
- ▬ DITCH FLOW DIRECTION

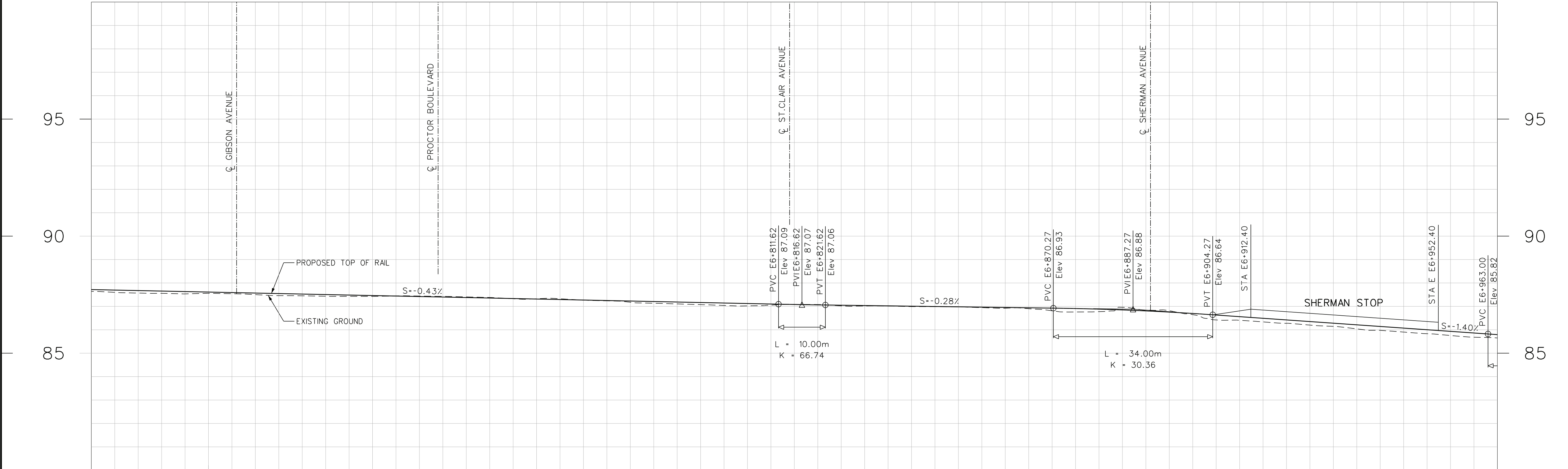
NOT FOR CONSTRUCTION



WESTBOUND

EASTBOUND

- NOTES:
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87.568	87.502	87.427	87.380	87.237	87.040	87.022	86.980	86.760	86.647	86.201	85.832	PROPOSED TOP OF RAIL PROFILE
87.676	87.570	87.463	87.357	87.251	87.144	87.050	86.981	86.909	86.698	86.352	86.003	EXISTING GROUND ELEVATION
E6+675	E6+700	E6+725	E6+750	E6+775	E6+800	E6+825	E6+850	E6+875	E6+900	E6+925	E6+950	DESIGN C CHAINAGE EASTBOUND TRACK

No.

REVISIONS

INITIAL

DATE

▲

Modified crosswalk, curb radii

JU

09/26/11

REFERENCE MATERIAL:
Survey Plan : COMPILED FBS AND SURVEY LRT.dgn (MAY 19, 2011)
0937HAM0002_ALL_v8.dgn (OCTOBER 7, 2010)
basemap2.dwg (MAY 19, 2011)
Sewer Plans :
Water Plans :
Geodetic Bench Mark Index
Borehole Report -

SCALES

0 5m 10m 20m

HORIZONTAL 1:500

0 1m 2m 4m

VERTICAL 1:100

Project Manager

NAME

Manager of Design

NAME

steer daves gleave

DIALOG

DRAWN BELDEN KUNG / BRIAN KIM

CHECKED JUAN UMANA

APPROVED STEPHAN MEHR

DATE 2011/08/24

Hamilton
Public Works

RAPID Transit
moving HAMILTON forward

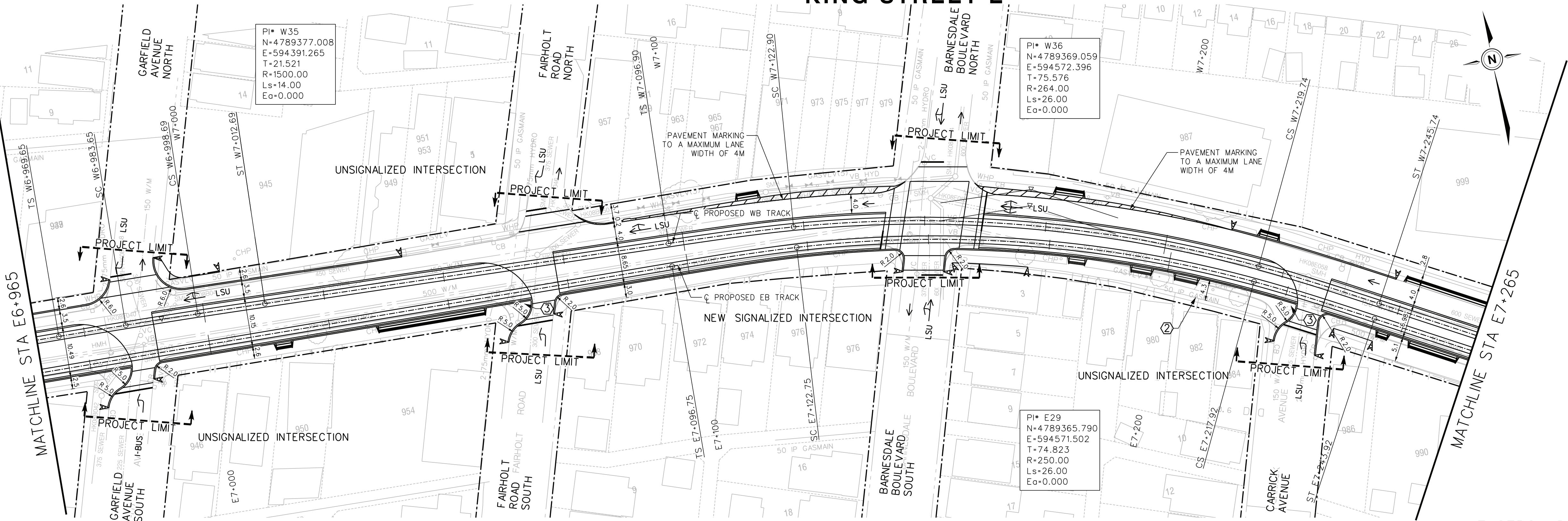
METROLINX
An agency of the Government of Ontario

HAMILTON LRT 'B' LINE

PRELIMINARY DESIGN

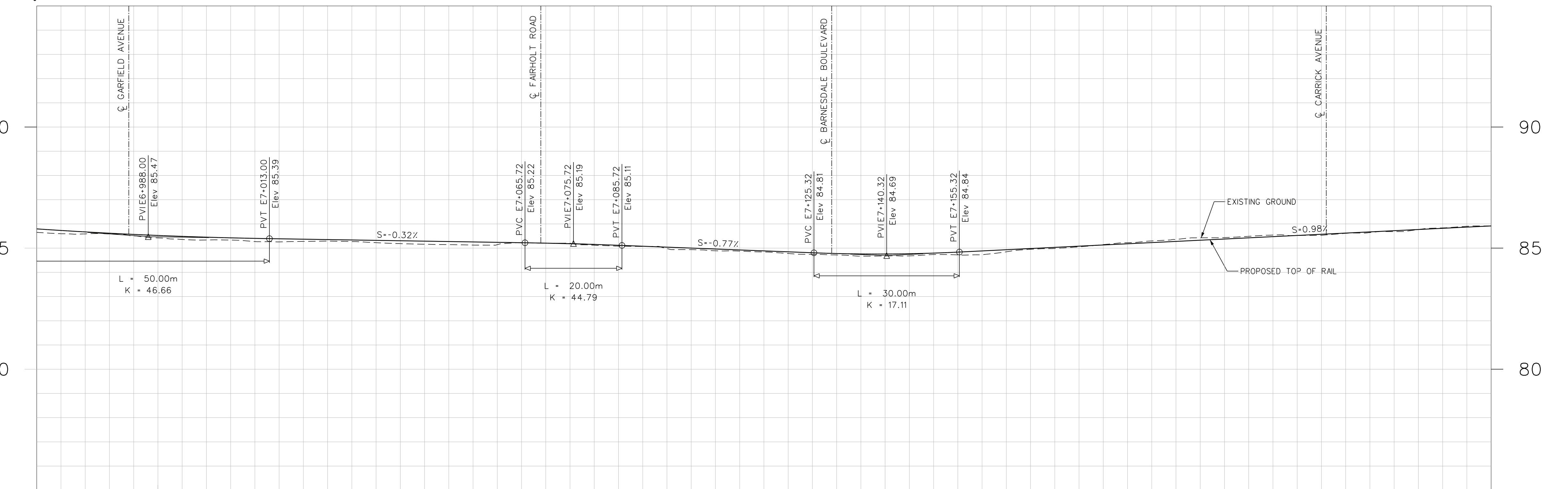
PLAN AND PROFILE

STA E6+665 TO STA E6+965



WESTBOUND

EASTBOUND



E6+975	85.670	85.586
E7+000	85.452	85.336
E7+025	85.353	85.291
E7+050	85.272	85.145
E7+075	85.182	85.202
E7+100	85.002	84.938
E7+125	84.809	84.743
E7+150	84.795	84.736
E7+175	85.032	84.987
E7+200	85.278	85.359
E7+225	85.523	85.524
E7+250	85.769	85.768

PROPOSED TOP OF RAIL PROFILE
EXISTING GROUND ELEVATION
DESIGN C CHAINAGE EASTBOUND TRACK

FILE No. CONTRACT No. C11-12-10 SHEET No. 27 OF 50

DIMENSIONS SHOWN ON THIS PLAN ARE IN METRES UNLESS OTHERWISE NOTED

LEGEND

NOT FOR CONSTRUCTION

- NOTES:
- OPPORTUNITIES FOR WIDENING SIDEWALKS BEYOND 2.5m TO BE EVALUATED IN NEXT DESIGN PHASE TO ACCOMMODATE URBAN REALM ENHANCEMENTS
 - INCLUSION OF HARD AND SOFT LANDSCAPING TO BE EVALUATED IN NEXT DESIGN PHASE
 - EXACT DETAIL AND EXTENT OF BUMPOUTS TO ACCOMMODATE URBAN REALM ENHANCEMENTS TO BE DETERMINED IN NEXT DESIGN PHASE

No.	REVISIONS	INITIAL	DATE
1	Modified curb radii	JU	09/26/11

REFERENCE MATERIAL:
Survey Plan : COMPILED FBS AND SURVEY LRT.dgn (MAY 19, 2011)
0937HAMI0002_ALL_v8.dgn (OCTOBER 7, 2010)
basemap2.dwg (MAY 19, 2011)
Sewer Plans :
Water Plans :
Geodetic Bench Mark Index
Borehole Report -

Project Manager
NAME
Manager of Design
NAME

SCALES

HORIZONTAL 1:500

VERTICAL 1:100

steer daves gleave

SNC-LAVALIN DIALOG

DRAWN BELDEN KUNG / BRIAN KIM

CHECKED JUAN UMANA

APPROVED STEPHAN MEHR

DATE 2011/08/24

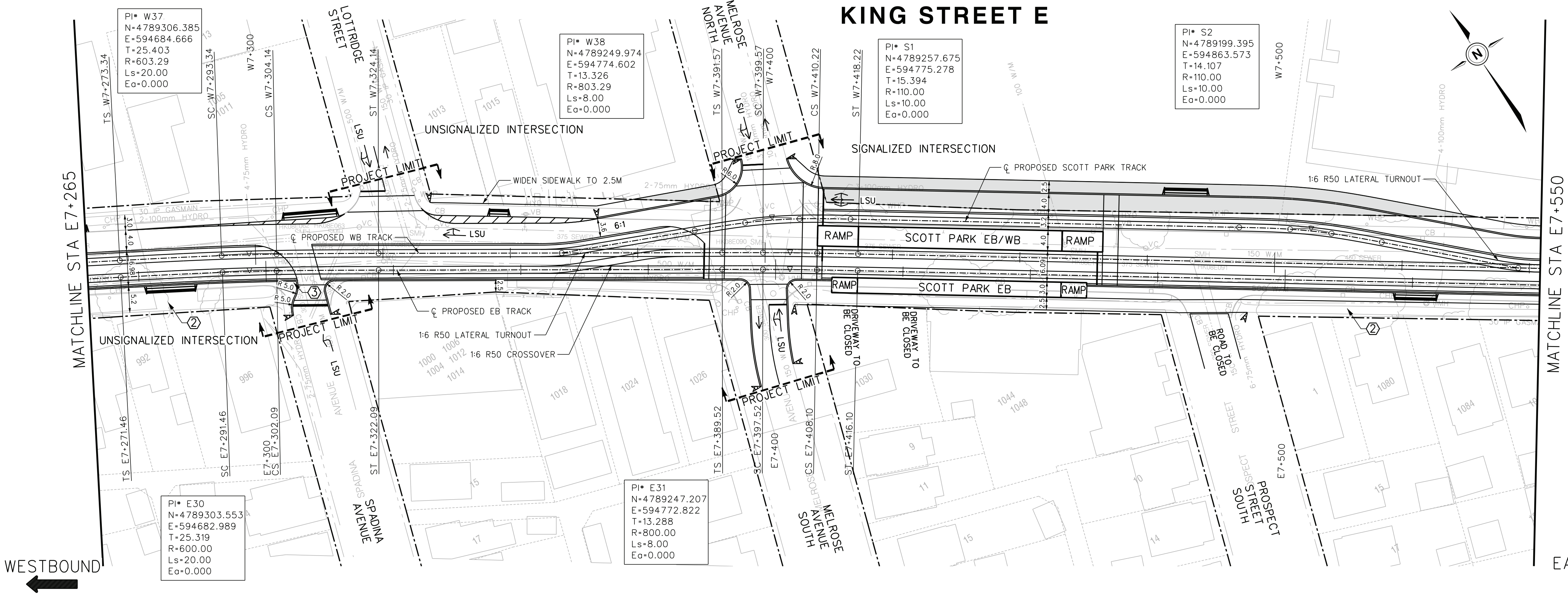
HAMILTON Public Works

RAPIDTransit moving HAMILTON forward

METROLINX An agency of the Government of Ontario

HAMILTON LRT 'B' LINE
PRELIMINARY DESIGN
PLAN AND PROFILE
STA E6+965 TO STA E7+265

KING STREET E



WESTBOUND

EASTBOUND



86.011	86.299	86.443	86.577	86.649	86.562	86.453	86.381	86.318	86.394	86.420	86.425	PROPOSED TOP OF RAIL PROFILE
86.015	86.261	86.506	86.638	86.600	86.561	86.523	86.484	86.445	86.407	86.368	86.330	EXISTING GROUND ELEVATION
E7+275	E7+300	E7+325	E7+350	E7+375	E7+400	E7+425	E7+450	E7+475	E7+500	E7+525	E7+550	DESIGN ϕ CHAINAGE EASTBOUND TRACK

NOTES:

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- ③ EXACT DETAIL AND EXTENT OF BUMPOUTS TO ACCOMMODATE URBAN REALM ENHANCEMENTS TO BE DETERMINED IN NEXT DESIGN PHASE

LEGEND

- LRT TRACK CENTRELINE
- - - EXISTING PROPERTY LINE
- PROPOSED TOP OF RAIL (PROFILE)
- EXISTING GROUND LINE
- EAST BOUND TRACK USED AS REFERENCE LINE
- E0+000.00 STATIONING ON EB TRACK
- W0+000.00 STATIONING ON WB TRACK
- PROPERTY REQUIRED
- MATCH EXISTING
- EXISTING DRIVEWAY
- DESIGN VEHICLE
- TAPER RATE
- TOP OF SLOPE
- BOTTOM OF SLOPE
- DITCH FLOW DIRECTION

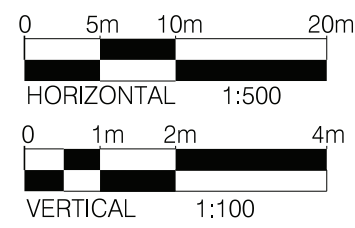
NOT FOR CONSTRUCTION

No.	REVISIONS	INITIAL	DATE

REFERENCE MATERIAL:

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Sewer Plans :
Water Plans :
Geodetic Bench Mark Index
Borehole Report -

SCALES



Project Manager

NAME
Manager of Design
NAME



DRAWN BELDEN KUNG / BRIAN KIM
CHECKED JUAN UMANA
APPROVED STEPHAN MEHR
DATE 2011/09/07

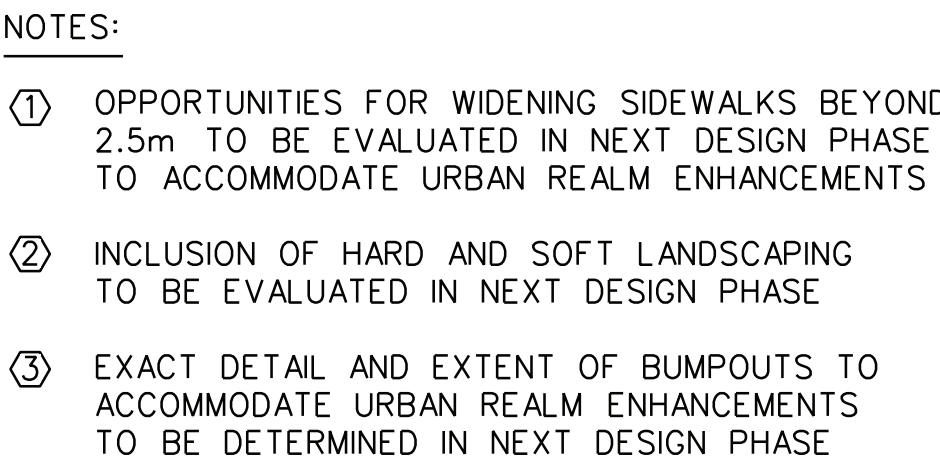
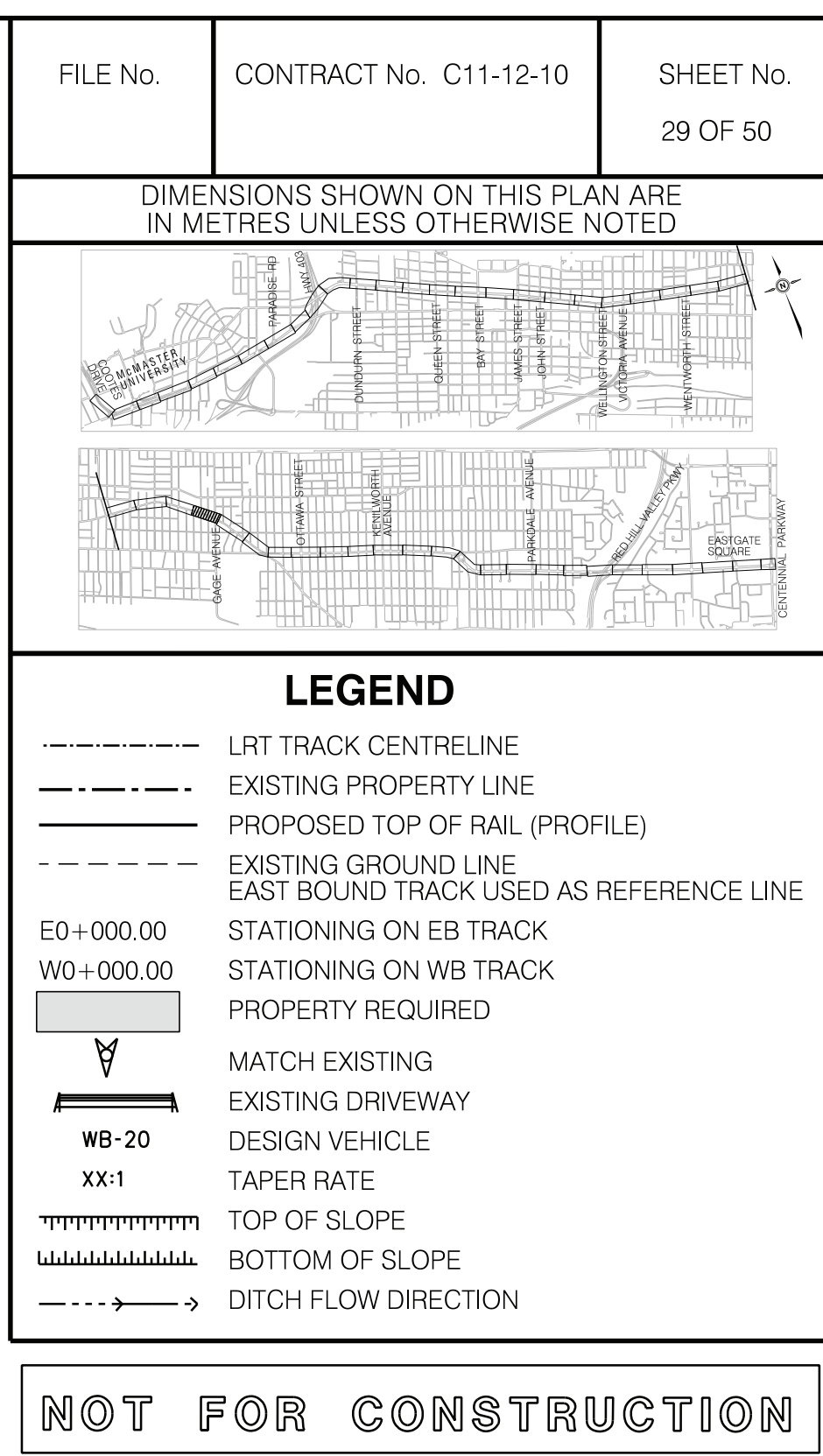


HAMILTON LRT 'B' LINE

PRELIMINARY DESIGN

PLAN AND PROFILE

STA E7+265 TO STA E7+550



KING STREET E

FILE No.

CONTRACT No. C11-12-10

SHEET No.
30 OF 50

DIMENSIONS SHOWN ON THIS PLAN ARE
IN METRES UNLESS OTHERWISE NOTED

LEGEND

LRT TRACK CENTRELINE

EXISTING PROPERTY LINE

PROPOSED TOP OF RAIL (PROFILE)

EXISTING GROUND LINE

EAST BOUND TRACK USED AS REFERENCE LINE

E0+000.00

STATIONING ON EB TRACK

W0+000.00

STATIONING ON WB TRACK

PROPERTY REQUIRED

MATCH EXISTING

EXISTING DRIVEWAY

DESIGN VEHICLE

XX:1

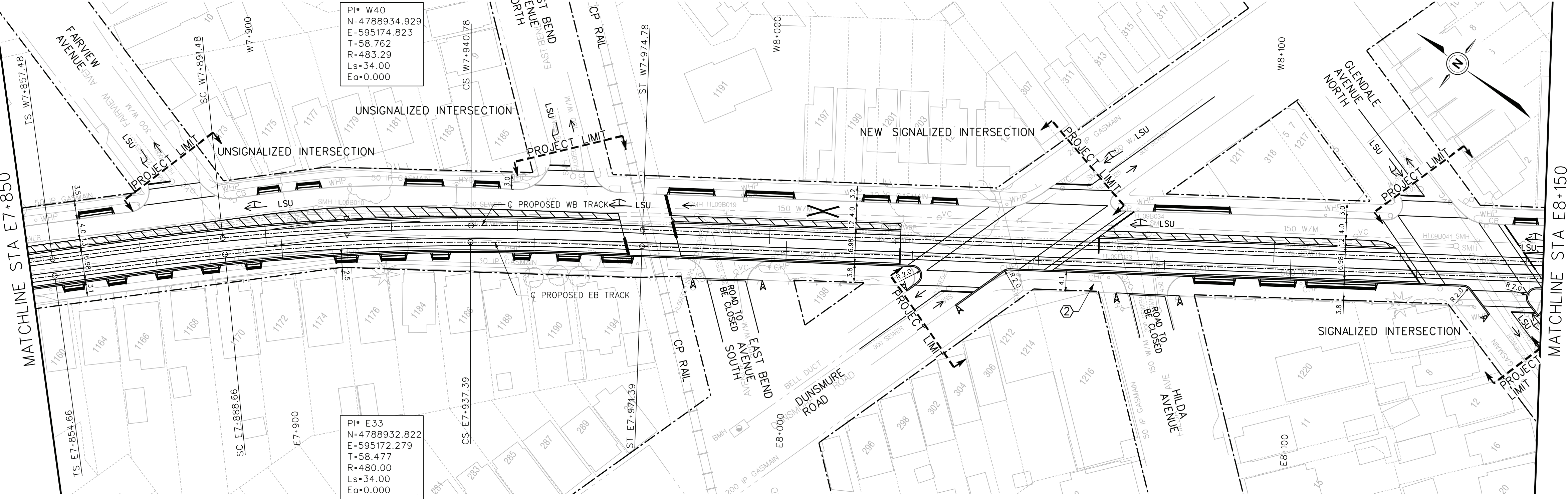
TAPER RATE

TOP OF SLOPE

BOTTOM OF SLOPE

DITCH FLOW DIRECTION

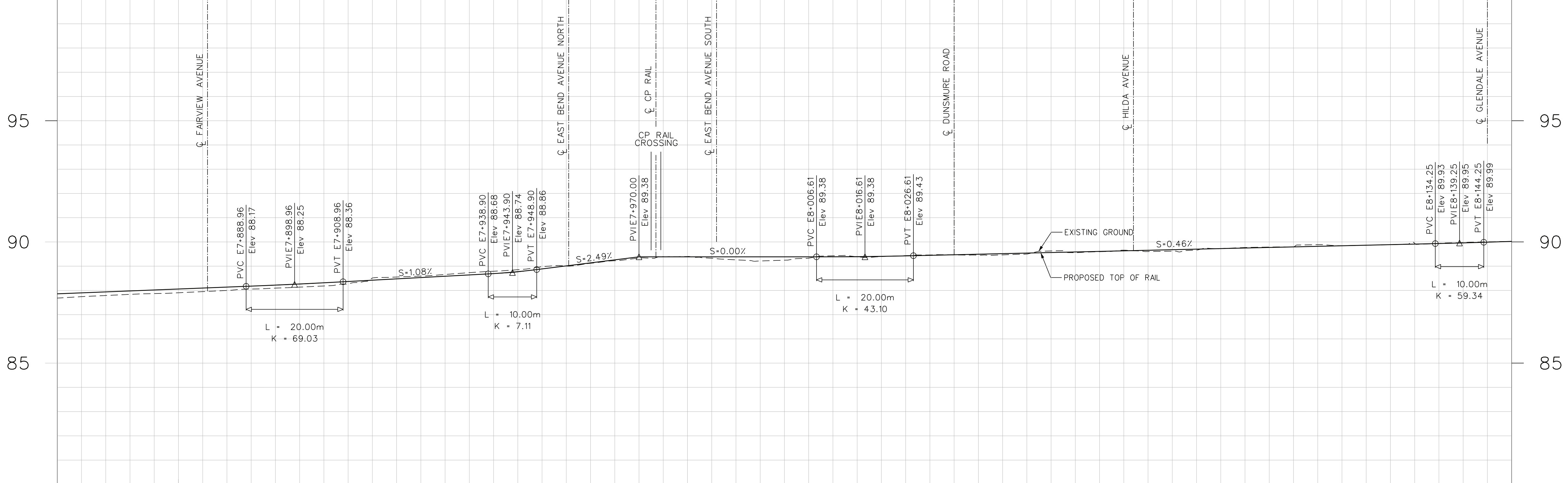
NOT FOR CONSTRUCTION



WESTBOUND
←

→
EASTBOUND

- NOTES:
- ① OPPORTUNITIES FOR WIDENING SIDEWALKS BEYOND 2.5m TO BE EVALUATED IN NEXT DESIGN PHASE TO ACCOMMODATE URBAN REALM ENHANCEMENTS
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 - ③ EXACT DETAIL AND EXTENT OF BUMPOUTS TO ACCOMMODATE URBAN REALM ENHANCEMENTS TO BE DETERMINED IN NEXT DESIGN PHASE



87.683	87.902	88.135	88.590	88.979	89.454	89.245	89.433	89.496	89.602	89.788	89.886	90.024	PROPOSED TOP OF RAIL PROFILE
87.859	88.058	88.265	88.530	88.887	89.385	89.385	89.424	89.540	89.656	89.772	89.888	90.022	EXISTING GROUND ELEVATION
E7+850	E7+875	E7+900	E7+925	E7+950	E7+975	E8+000	E8+025	E8+050	E8+075	E8+100	E8+125	E8+150	DESIGN Q CHAINAGE EASTBOUND TRACK

No.

REVISIONS

INITIAL

DATE

REFERENCE MATERIAL:

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Sewer Plans :
Water Plans :

Geodetic Bench Mark Index
Borehole Report -

SCALES

0 5m 10m 20m

HORIZONTAL 1:500

0 1m 2m 4m

VERTICAL 1:100

Project Manager

NAME

Manager of Design

NAME

steer daves gleave

DRAWN BELDEN KUNG / BRIAN KIM

CHECKED JUAN UMANA

APPROVED STEPHAN MEHR

DATE 2011/09/07

moving HAMILTON forward

An agency of the Government of Ontario

HAMILTON LRT 'B' LINE

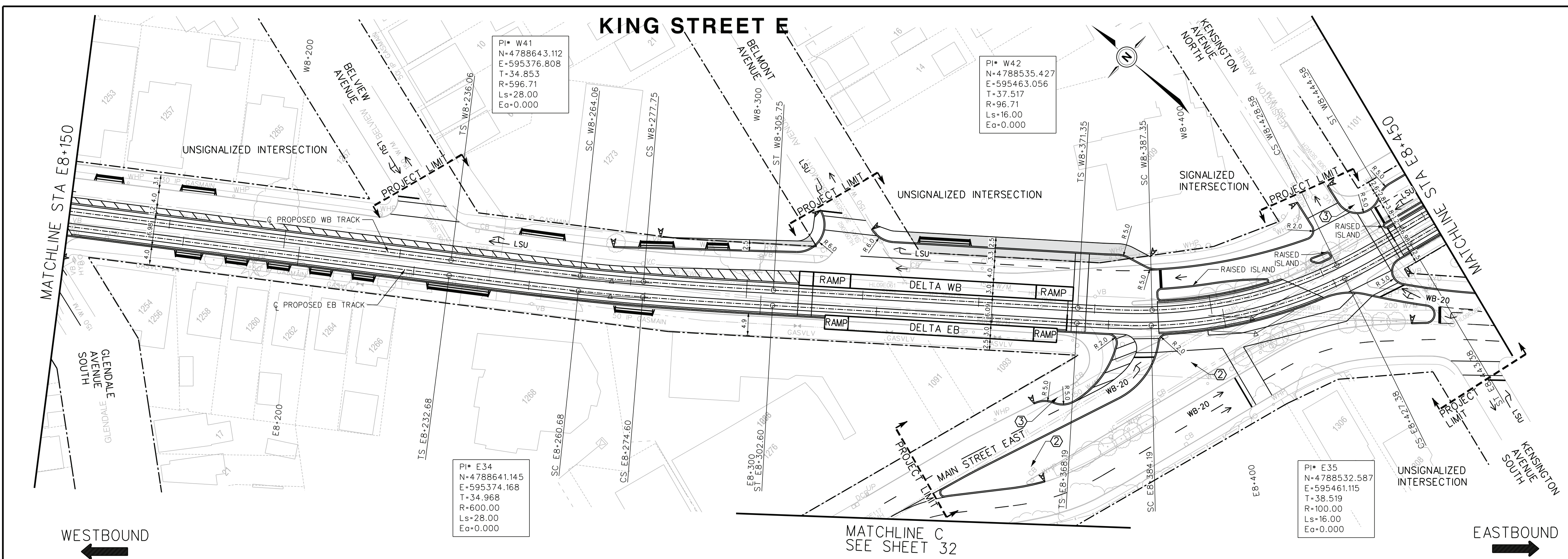
PRELIMINARY DESIGN

PLAN AND PROFILE

STA E7+850 TO STA E8+150

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KIMBR 2011-10-07 9:07:45 AM



FILE No.

CONTRACT No. C11-12-10

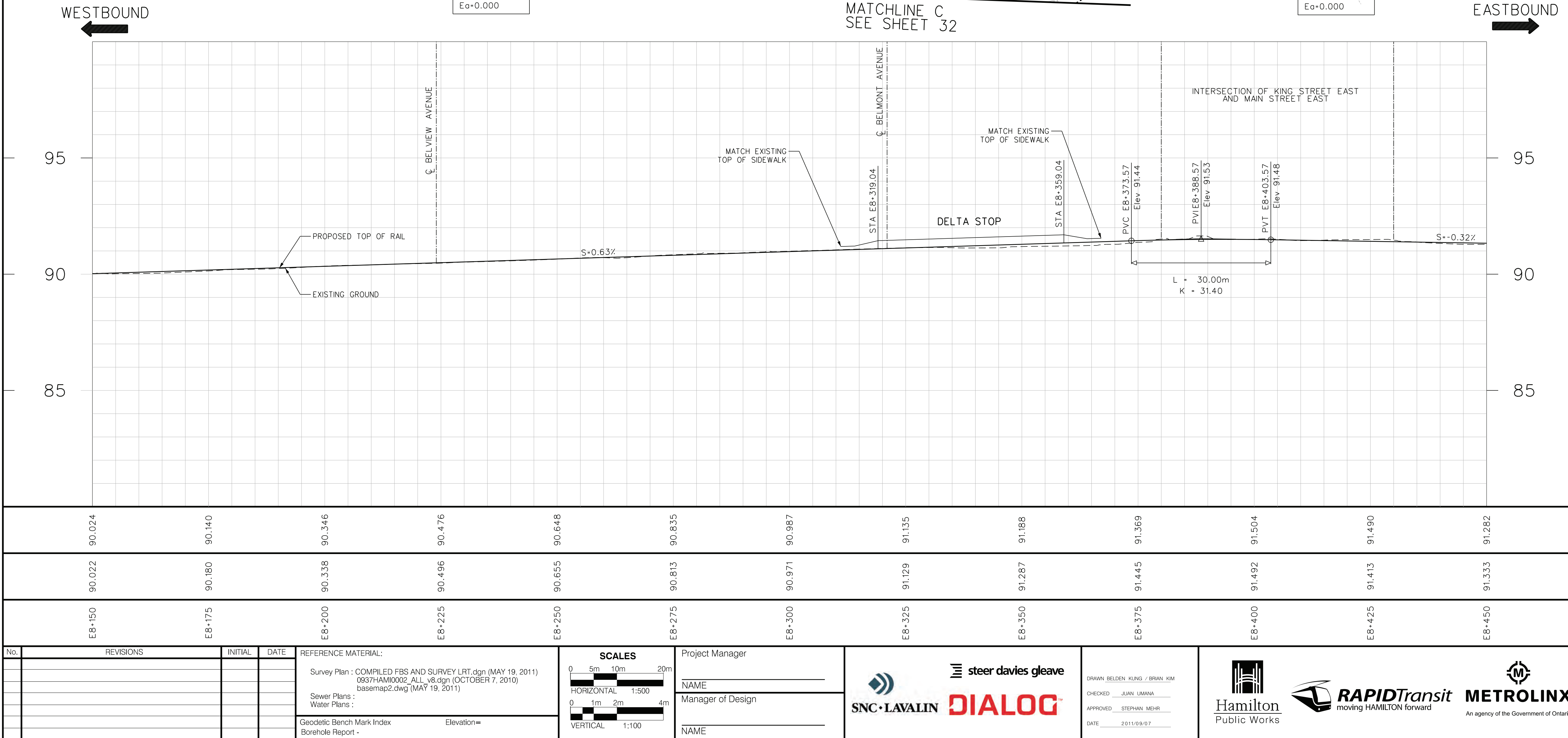
SHEET No.
31 OF 50

DIMENSIONS SHOWN ON THIS PLAN ARE
IN METRES UNLESS OTHERWISE NOTED

LEGEND

- LRT TRACK CENTRELINE
- - - EXISTING PROPERTY LINE
- PROPOSED TOP OF RAIL (PROFILE)
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- DESIGN VEHICLE
- TAPER RATE
- TOP OF SLOPE
- BOTTOM OF SLOPE
- DITCH FLOW DIRECTION

NOT FOR CONSTRUCTION





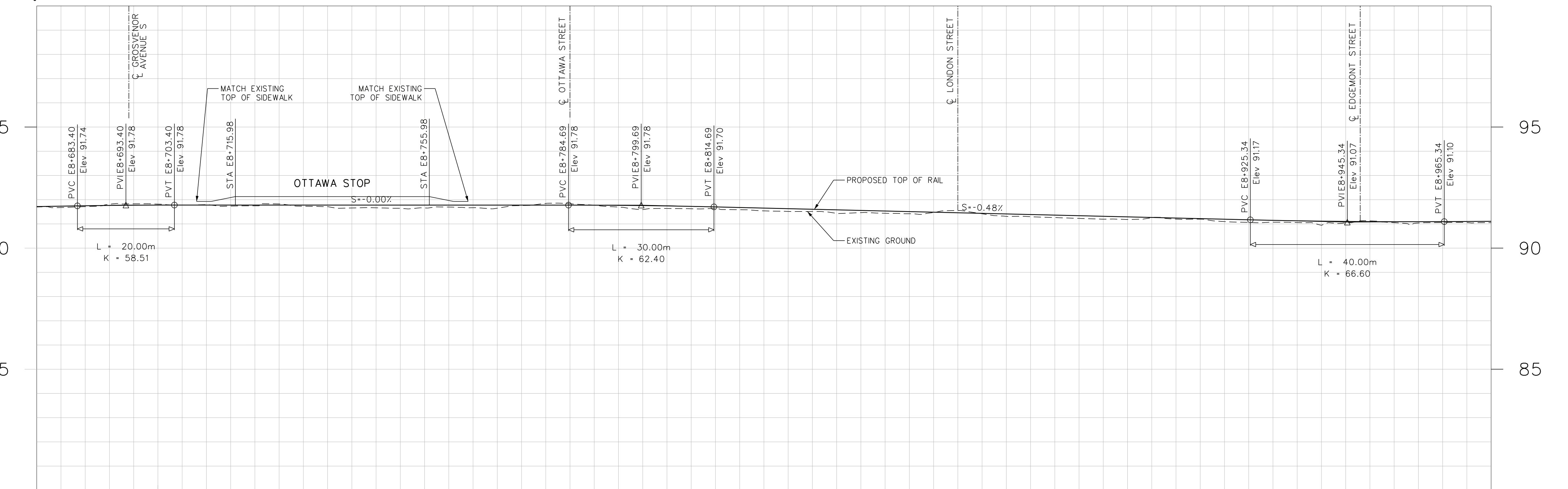
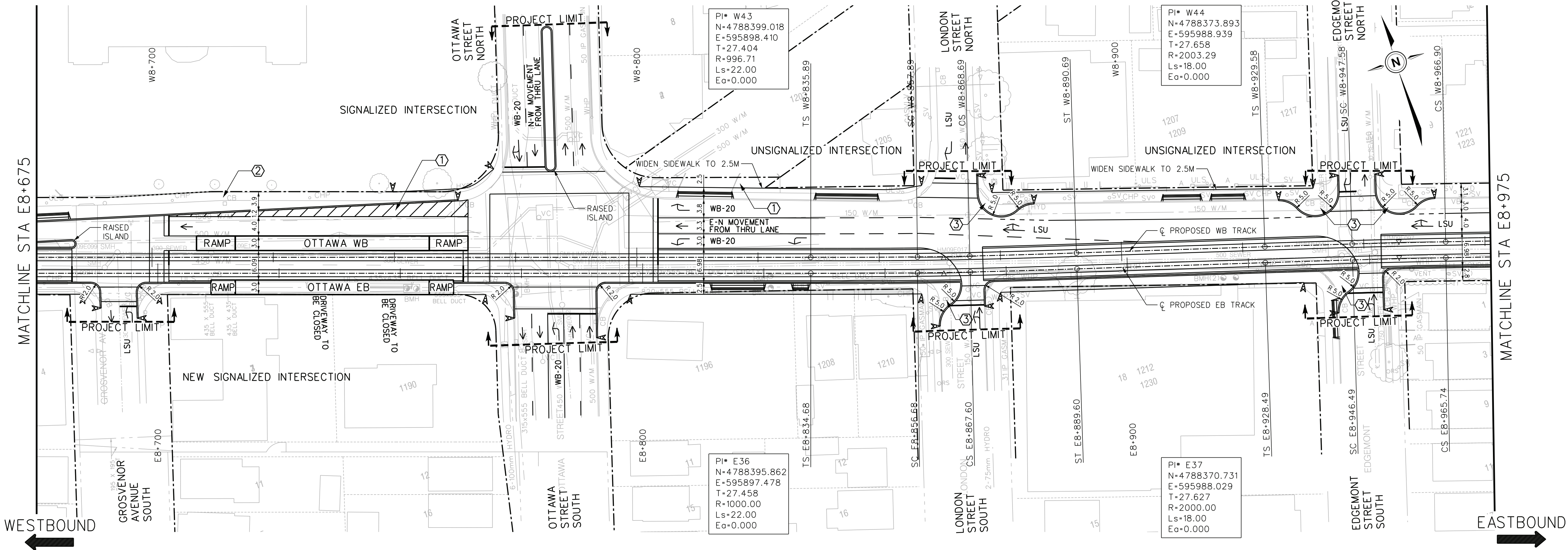
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	91.282																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			</
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MAIN STREET E



FILE No.

CONTRACT No. C11-12-10

SHEET No.
33 OF 50

DIMENSIONS SHOWN ON THIS PLAN ARE
IN METRES UNLESS OTHERWISE NOTED

LEGEND

LRT TRACK CENTRELINE

EXISTING PROPERTY LINE

PROPOSED TOP OF RAIL (PROFILE)

EXISTING GROUND LINE

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E0+000.00

STATIONING ON EB TRACK

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STATIONING ON WB TRACK

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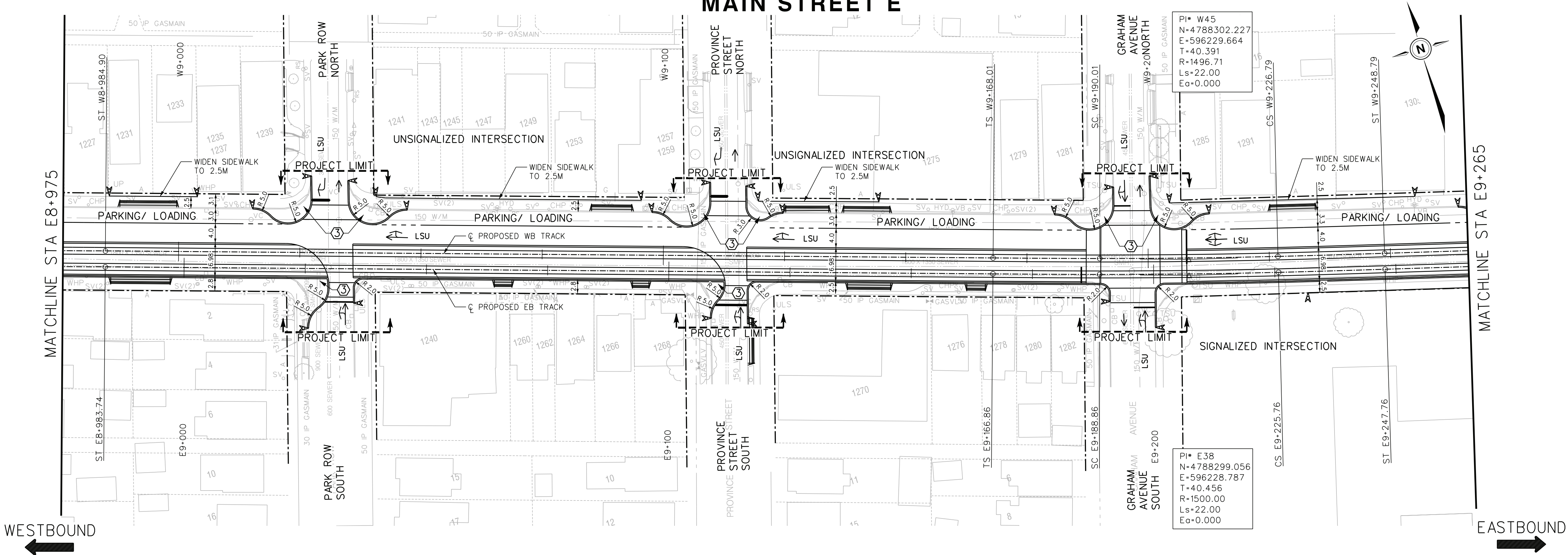
DITCH FLOW DIRECTION

NOT FOR CONSTRUCTION

- NOTES:
- OPPORTUNITIES FOR WIDENING SIDEWALKS BEYOND 2.5m TO BE EVALUATED IN NEXT DESIGN PHASE TO ACCOMMODATE URBAN REALM ENHANCEMENTS
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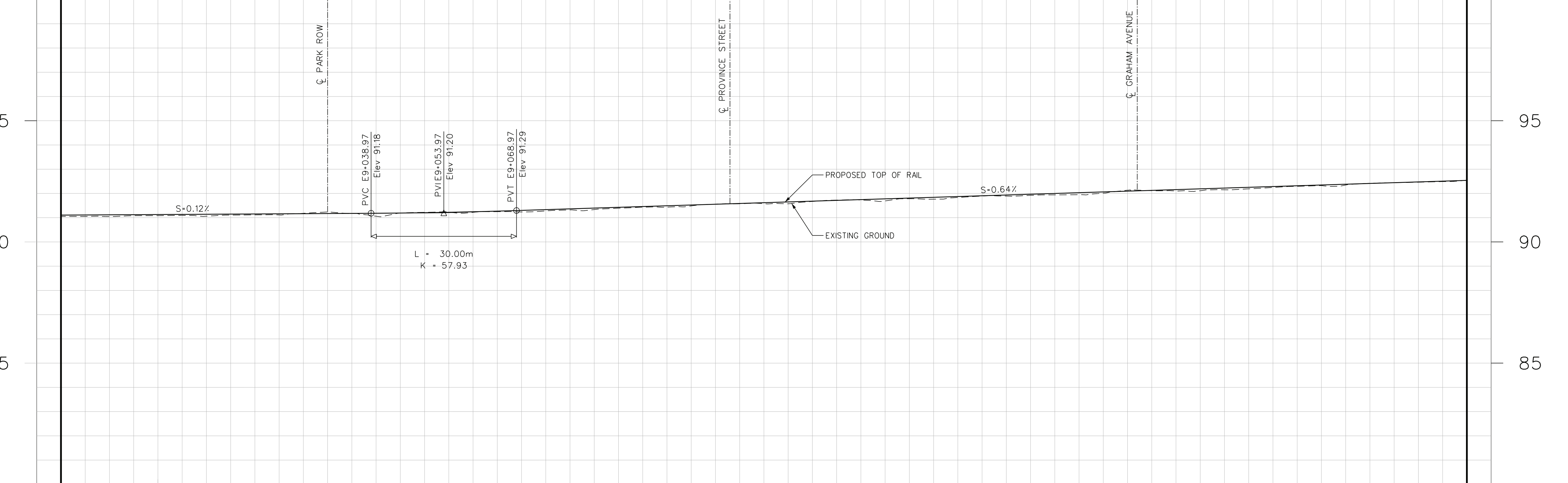
				91.698		91.716		91.675	E8+675	E8+700	E8+725	E8+750	E8+775	E8+800	E8+825	E8+850	E8+875	E8+900	E8+925	E8+950	E8+975	PROPOSED TOP OF RAIL PROFILE																
																						EXISTING GROUND ELEVATION																
																						DESIGN C CHAINAGE EASTBOUND TRACK																
No.	REVISIONS			INITIAL	DATE	REFERENCE MATERIAL:																	HAMILTON LRT 'B' LINE PRELIMINARY DESIGN PLAN AND PROFILE STA E8+675 TO STA E8+975															
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				SCALES		Project Manager																																
				0 5m 10m 20m		NAME																																
				HORIZONTAL 1:500		Manager of Design																																
				0 1m 2m 4m		NAME																																
				VERTICAL 1:100																																		

MAIN STREET E



WESTBOUND

EASTBOUND



91.054	91.094	91.180	91.221	91.279	91.435	91.573	91.783	91.920	92.114	92.246	92.444	PROPOSED TOP OF RAIL PROFILE
91.107	91.136	91.165	91.205	91.333	91.492	91.651	91.809	91.968	92.127	92.286	92.444	EXISTING GROUND ELEVATION
E8-975	E9-000	E9-025	E9-050	E9-075	E9-100	E9-125	E9-150	E9-175	E9-200	E9-225	E9-250	DESIGN C CHAINAGE EASTBOUND TRACK

LEGEND

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- NOTES:
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No.	REVISIONS	INITIAL	DATE

REFERENCE MATERIAL:
Survey Plan : COMPILED FBS AND SURVEY LRT.dgn (MAY 19, 2011)
0937HAMI0002_ALL_v8.dgn (OCTOBER 7, 2010)
basemap2.dwg (MAY 19, 2011)
Sewer Plans :
Water Plans :
Geodetic Bench Mark Index
Borehole Report -

SCALES

0 5m 10m 20m
HORIZONTAL 1:500
0 1m 2m 4m
VERTICAL 1:100

Project Manager
NAME
Manager of Design
NAME

SNC-LAVALIN **DIALOG**

steer daves gleave

DRAWN BELDEN KUNG / BRIAN KIM
CHECKED JUAN UMANA
APPROVED STEPHAN MEHR
DATE 2011/09/07

Hamilton Public Works

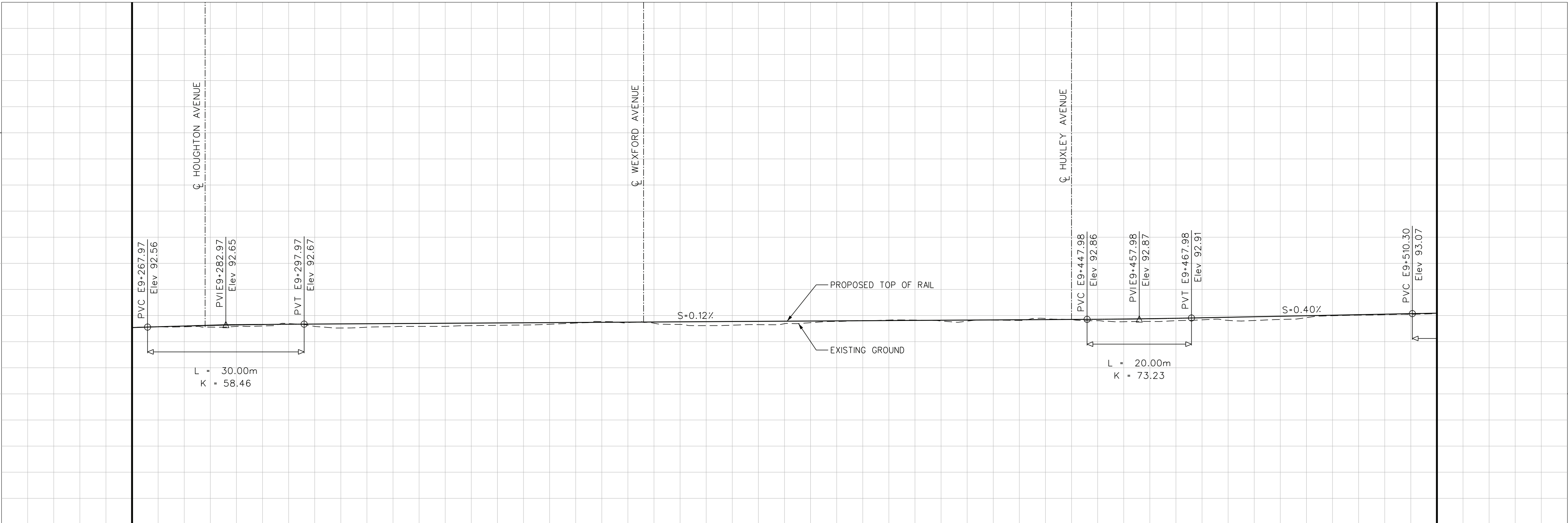
RAPIDTransit moving HAMILTON forward

METROLINX
An agency of the Government of Ontario

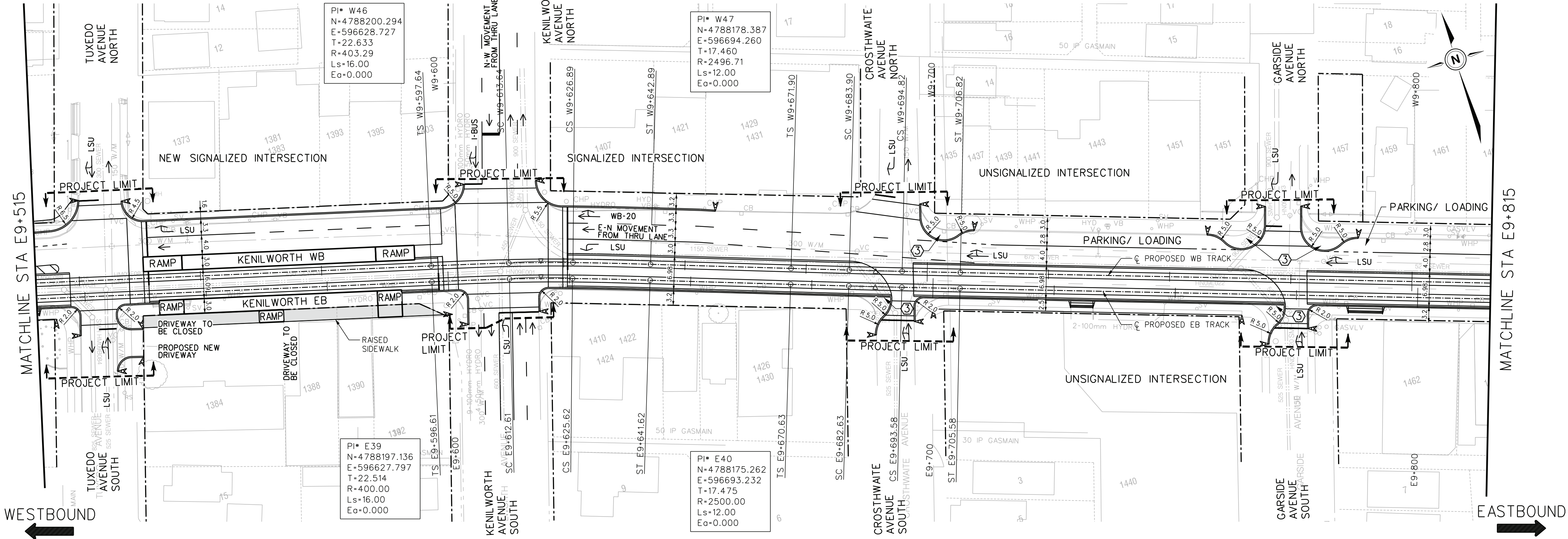
HAMILTON LRT 'B' LINE

PRELIMINARY DESIGN
PLAN AND PROFILE
STA E8+975 TO STA E9+265

FILE No.	CONTRACT No. C11-12-10	SHEET No. 35 OF 50																														
<p align="center">DIMENSIONS SHOWN ON THIS PLAN ARE IN METRES UNLESS OTHERWISE NOTED</p>																																
<p align="center">LEGEND</p> <table border="0"> <tr> <td>-----</td> <td>LRT TRACK CENTRELINE</td> </tr> <tr> <td>---</td> <td>EXISTING PROPERTY LINE</td> </tr> <tr> <td>=====</td> <td>PROPOSED TOP OF RAIL (PROFILE)</td> </tr> <tr> <td>-----</td> <td>EXISTING GROUND LINE</td> </tr> <tr> <td>-----</td> <td>EAST BOUND TRACK USED AS REFERENCE LINE</td> </tr> <tr> <td>E0+000.00</td> <td>STATIONING ON EB TRACK</td> </tr> <tr> <td>W0+000.00</td> <td>STATIONING ON WB TRACK</td> </tr> <tr> <td></td> <td>PROPERTY REQUIRED</td> </tr> <tr> <td></td> <td>MATCH EXISTING</td> </tr> <tr> <td></td> <td>EXISTING DRIVEWAY</td> </tr> <tr> <td>WB-20</td> <td>DESIGN VEHICLE</td> </tr> <tr> <td>XX:1</td> <td>TAPER RATE</td> </tr> <tr> <td></td> <td>TOP OF SLOPE</td> </tr> <tr> <td></td> <td>BOTTOM OF SLOPE</td> </tr> <tr> <td></td> <td>DITCH FLOW DIRECTION</td> </tr> </table>			-----	LRT TRACK CENTRELINE	---	EXISTING PROPERTY LINE	=====	PROPOSED TOP OF RAIL (PROFILE)	-----	EXISTING GROUND LINE	-----	EAST BOUND TRACK USED AS REFERENCE LINE	E0+000.00	STATIONING ON EB TRACK	W0+000.00	STATIONING ON WB TRACK		PROPERTY REQUIRED		MATCH EXISTING		EXISTING DRIVEWAY	WB-20	DESIGN VEHICLE	XX:1	TAPER RATE		TOP OF SLOPE		BOTTOM OF SLOPE		DITCH FLOW DIRECTION
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	DITCH FLOW DIRECTION																															
<p align="center">NOT FOR CONSTRUCTION</p>																																

[illegible]

MAIN STREET E



WESTBOUND

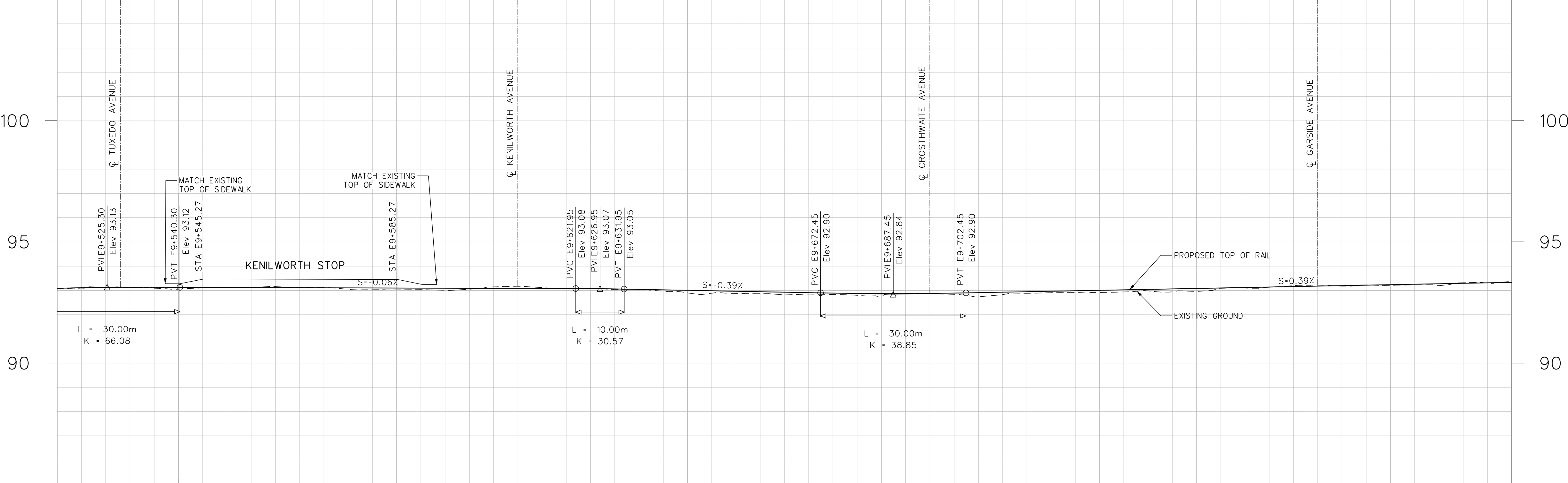
EASTBOUND

LEGEND

- LRT TRACK CENTRELINE
- - - EXISTING PROPERTY LINE
- PROPOSED TOP OF RAIL (PROFILE)
- - - EXISTING GROUND LINE
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- DITCH FLOW DIRECTION

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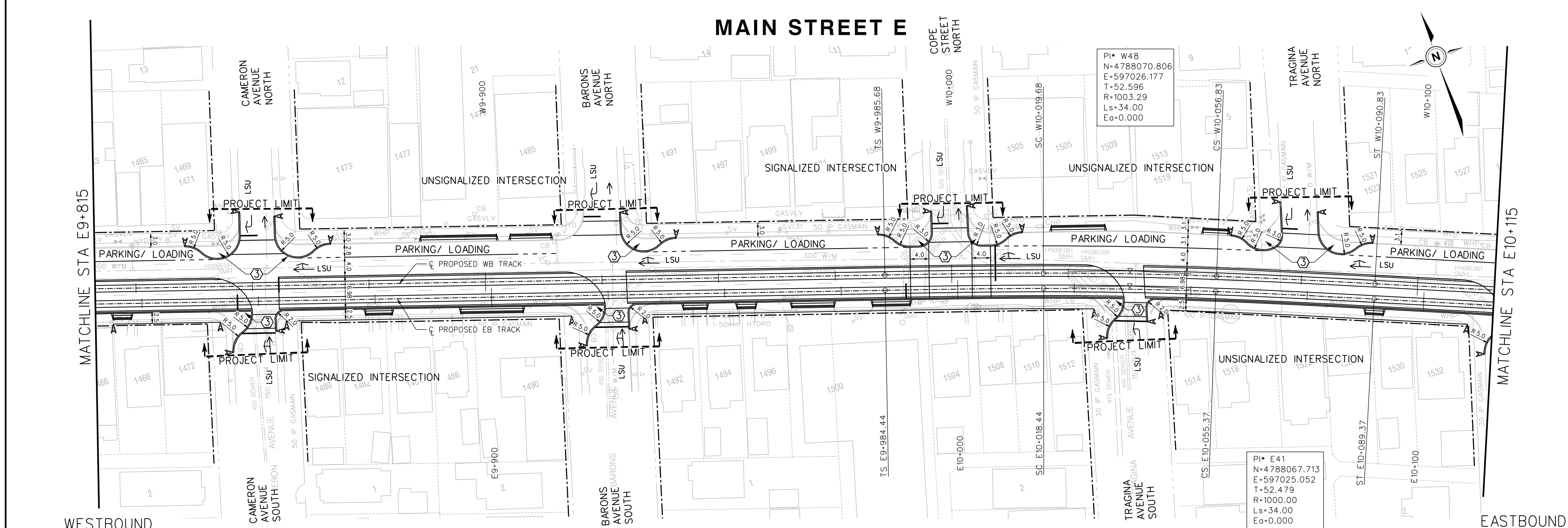
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93.129	93.122	93.045	93.047	93.068	92.883	92.830	92.836	92.909	92.959	93.213	93.205	PROPOSED TOP OF RAIL PROFILE
93.116	93.119	93.104	93.089	93.073	92.984	92.889	92.889	92.985	93.081	93.178	93.274	EXISTING GROUND ELEVATION
E9+525	E9+550	E9+575	E9+600	E9+625	E9+650	E9+675	E9+700	E9+725	E9+750	E9+775	E9+800	DESIGN C CHAINAGE EASTBOUND TRACK

No.	REVISIONS	INITIAL	DATE	REFERENCE MATERIAL: Survey Plan : COMPILED FBS AND SURVEY LRT.dgn (MAY 19, 2011) 0937HAMI0002_ALL_v8.dgn (OCTOBER 7, 2010) basemap2.dwg (MAY 19, 2011) Sewer Plans : Water Plans : Geodetic Bench Mark Index Borehole Report -	SCALES 0 5m 10m 20m HORIZONTAL 1:500 0 1m 2m 4m VERTICAL 1:100	Project Manager NAME Manager of Design NAME		DRAWN BELDEN KUNG / BRIAN KIM CHECKED JUAN UMANA APPROVED STEPHAN MEHR DATE 2011/09/07		HAMILTON LRT 'B' LINE PRELIMINARY DESIGN PLAN AND PROFILE STA E9+515 TO STA E9+815
-----	-----------	---------	------	---	---	--	--	---	--	--

MAIN STREET E



WESTBOUND

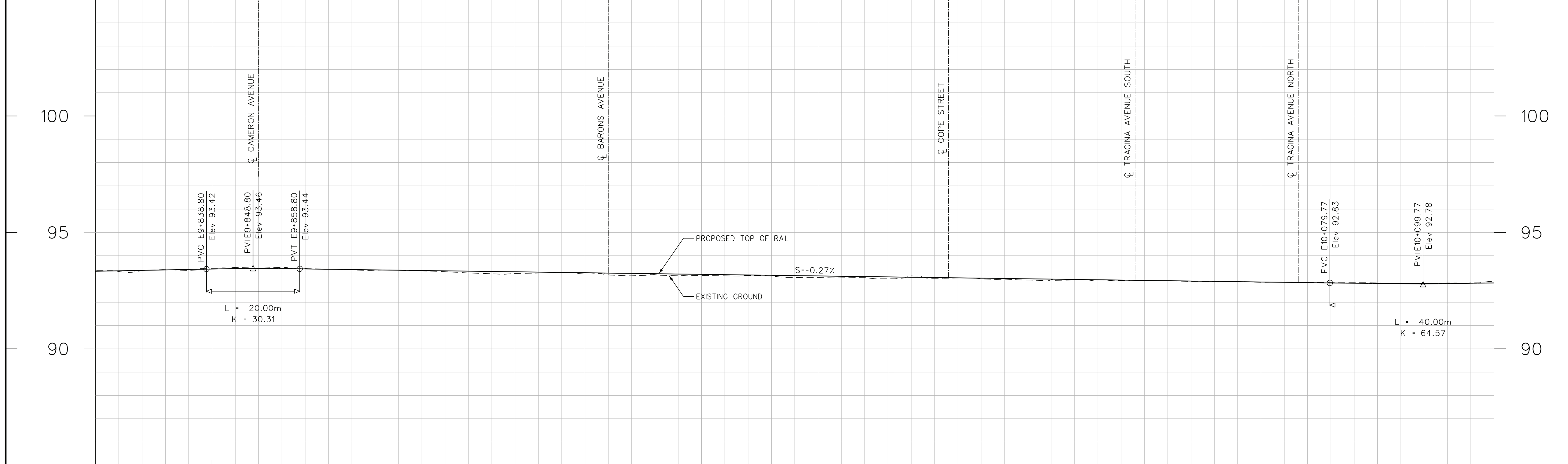
EASTBOUND

LEGEND

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93.361					93.371					93.374					93.224					93.180					93.136					93.050					93.042					92.915					92.894					92.854					92.794					PROPOSED TOP OF RAIL PROFILE				
93.371					93.447					93.391					93.322					93.254					93.186					93.117					93.049					92.980					92.912					92.843					92.806					EXISTING GROUND ELEVATION				
E9+825					E9+850					E9+875					E9+900					E9+925					E9+950					E9+975					E10+000					E10+025					E10+050					E10+075					E10+100					DESIGN C CHAINAGE EASTBOUND TRACK				

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Water Plans :

Geodetic Bench Mark Index
Borehole Report -

SCALES

0 5m 10m 20m

HORIZONTAL 1:500

0 1m 2m 4m

VERTICAL 1:100

Project Manager

NAME

Manager of Design

NAME

steer daves gleave

SNC-LAVALIN

DIALOG

DRAWN BELDEN KUNG / BRIAN KIM

CHECKED JUAN UMANA

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Hamilton
Public Works

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moving HAMILTON forward

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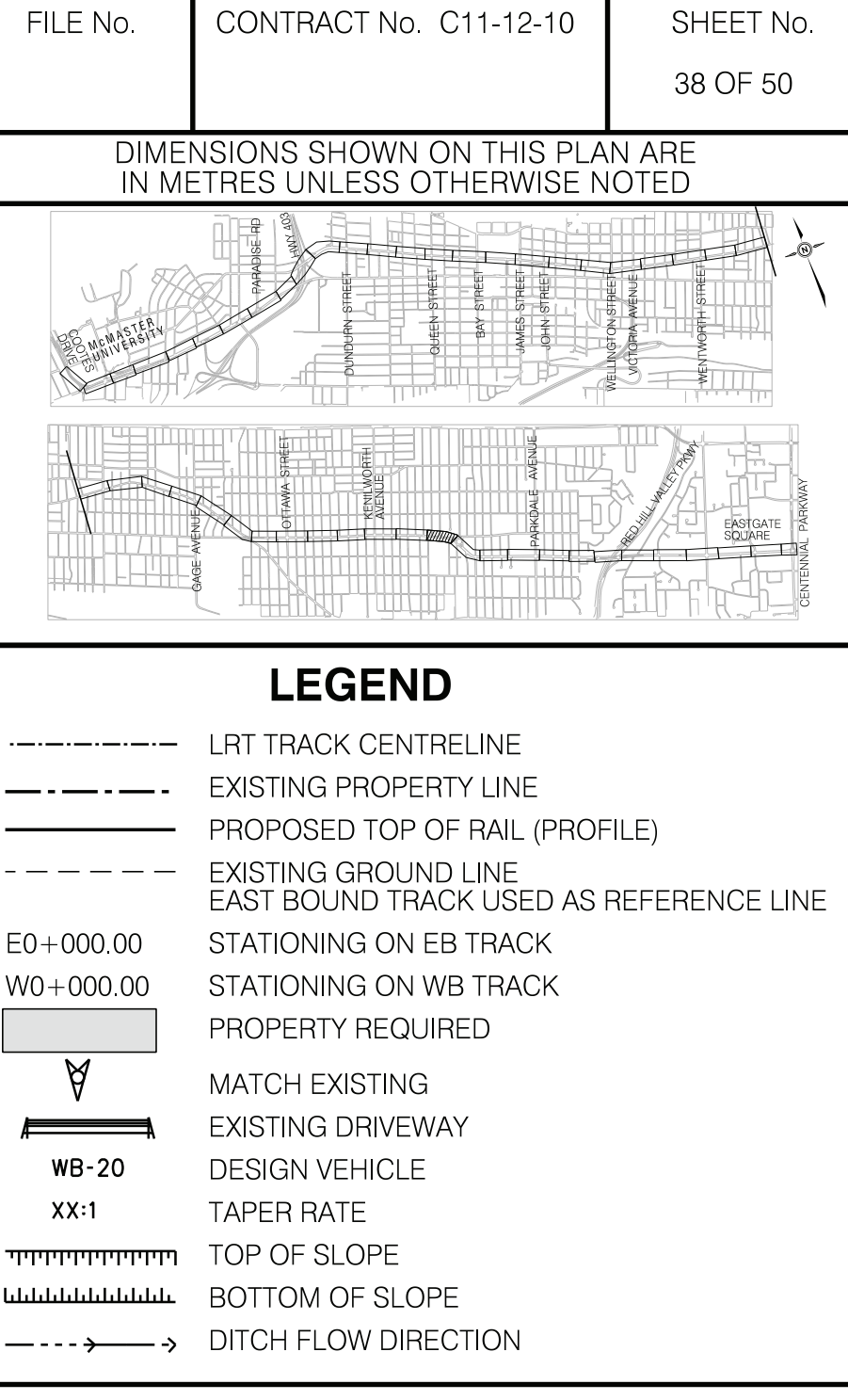
HAMILTON LRT 'B' LINE

PRELIMINARY DESIGN

PLAN AND PROFILE

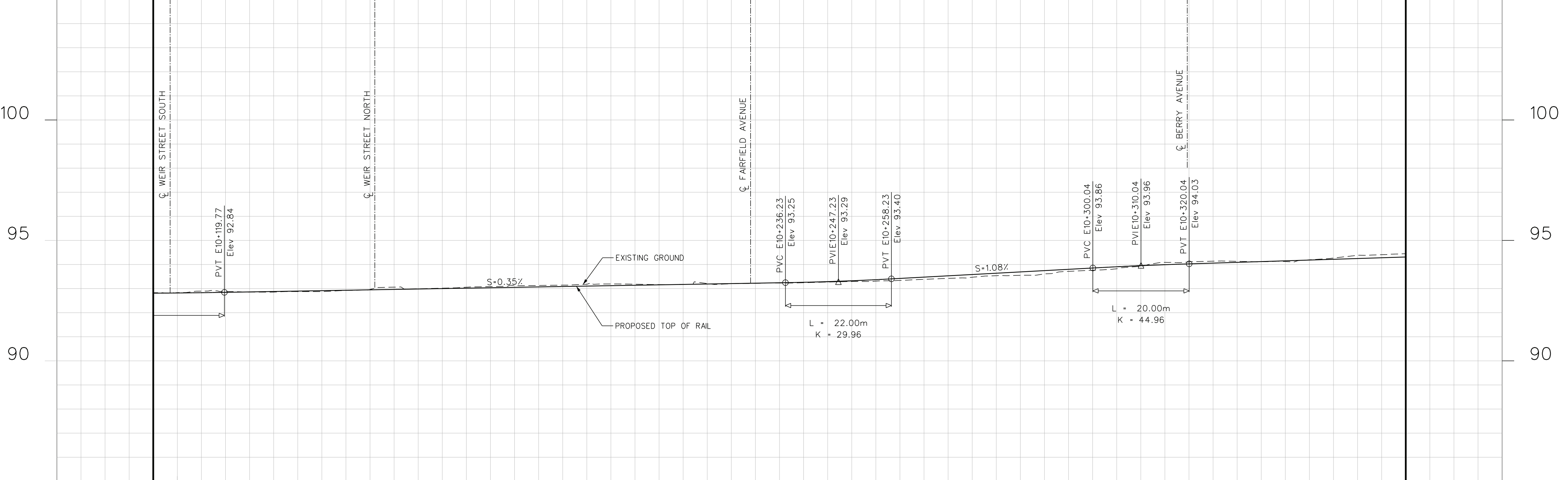
STA E9+815 TO STA E10+115

steer davis gleave
DIALOG™



NOT FOR CONSTRUCTION

EASTBOUND
→



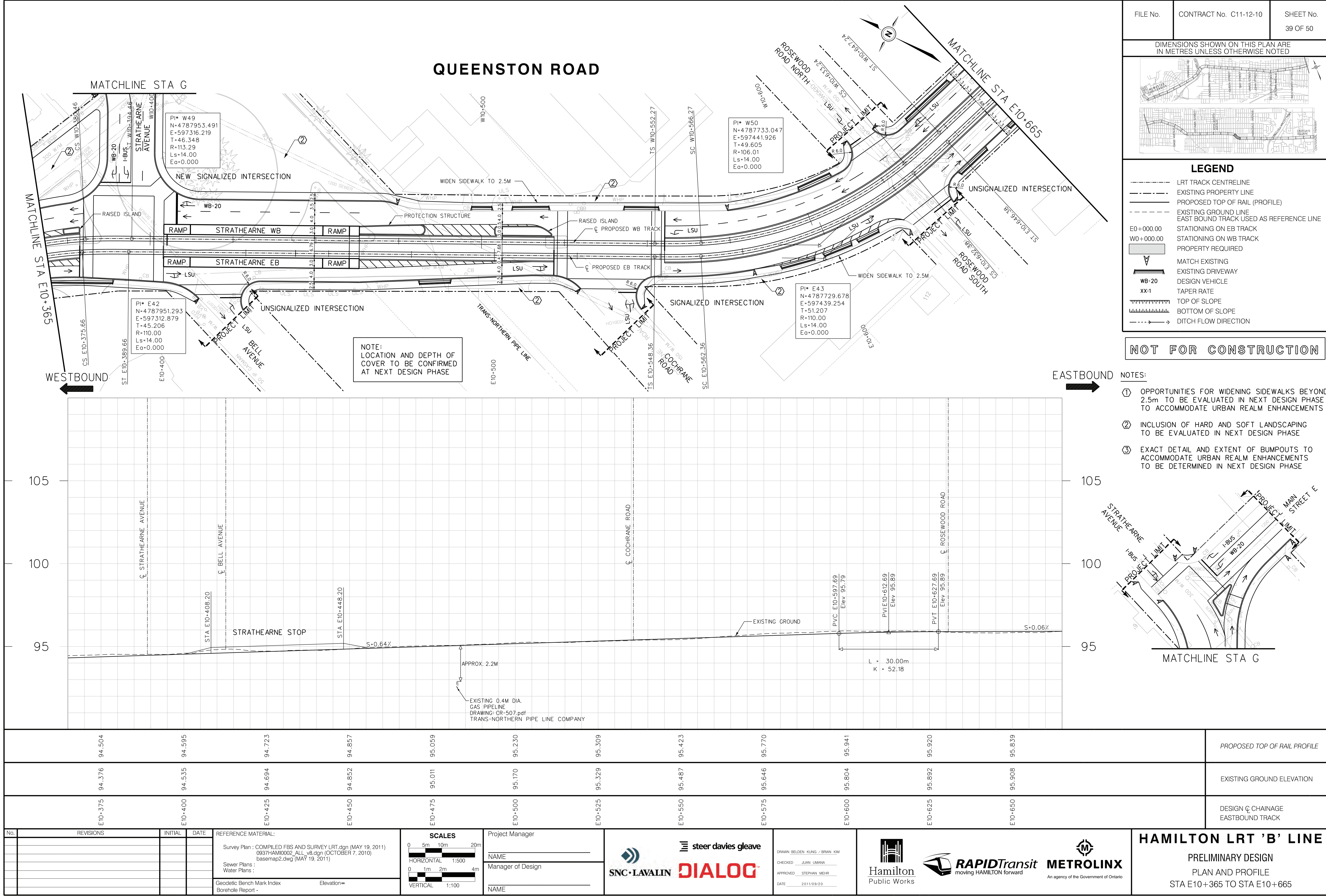
E10+125	92.863	92.853	PROPOSED TOP OF RAIL PROFILE
E10+150	92.949	92.965	EXISTING GROUND ELEVATION
E10+175	93.035	93.084	
E10+200	93.122	93.191	
E10+225	93.208	93.201	
E10+250	93.326	93.293	
E10+275	93.585	93.471	
E10+300	93.855	93.760	
E10+325	94.058	94.138	
E10+350	94.217	94.268	

No.	REVISIONS	INITIAL	DATE	REFERENCE MATERIAL:	<div> <div> <p>HORIZONTAL 1:500</p> </div> <div> <p>VERTICAL 1:100</p> </div> </div>	<div> <div>Project Manager</div> <div>NAME</div> </div> <div> <div>Manager of Design</div> <div>NAME</div> </div>	<div> </div>	<div> <div> <div>DRAWN BELDEN KUNG / BRIAN KIM</div> <div>CHECKED JUAN UMANA</div> <div>APPROVED STEPHAN MEHR</div> <div>DATE 2011/09/20</div> </div> </div>	<div> </div>	<div> <div>HAMILTON LRT 'B' LINE</div> <div>PRELIMINARY DESIGN</div> <div>PLAN AND PROFILE</div> <div>STA E10+115 TO STA E10+365</div> </div>
				Survey Plan : COMPILE FBS AND SURVEY LRT.dgn (MAY 19, 2011) 09371-HAM1002_ALL_v8.dgn (OCTOBER 7, 2010) basemap2.dwg (MAY 19, 2011)						
				Sewer Plans : Water Plans :						
				Geodetic Bench Mark Index Borehole Report -	Elevation=					







HAMILTON LRT 'B' LINE

PRELIMINARY DESIGN
PLAN AND PROFILE
STA E10+115 TO STA E10+365

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				E10-375		E10-400		E10-425		E10-450		E10-475		E10-500		E10-525		E10-550		E10-575		E10-600		E10-625		E10-650				DESIGN C/C CHAINAGE EASTBOUND TRACK
				94.375		94.535		94.694		94.852		95.011		95.170		95.329		95.487		95.646		95.804		95.892		95.908				EXISTING GROUND ELEVATION
				94.504		94.595		94.723		94.857		95.059		95.230		95.309		95.423		95.770		95.941		95.920		95.839				PROPOSED TOP OF RAIL PROFILE

No.	REVISIONS		INITIAL	DATE	REFERENCE MATERIAL: Survey Plan : COMPILED FBS AND SURVEY LRT.dgn (MAY 19, 2011) 0937HAMI0002_ALL_v8.dgn (OCTOBER 7, 2010) basemap2.dwg (MAY 19, 2011) Sewer Plans : Water Plans : Geodetic Bench Mark Index Borehole Report -	<div>Project Manager</div> <div>NAME</div> <div>Manager of Design</div> <div>NAME</div>	<div> </div> <div></div>	<div><div>DRAWN: BELDEN KLING / BRIAN KIM</div><div>CHECKED: JUAN UMANA</div><div>APPROVED: STEPHAN MEHR</div><div>DATE: 2011/09/20</div></div>	<div>  </div>	<div>HAMILTON LRT 'B' LINE</div> <div>PRELIMINARY DESIGN</div> <div>PLAN AND PROFILE</div> <div>STA E10+365 TO STA E10+665</div>

QUEENSTON ROAD

WESTBOUND

EASTBOUND

FILE No.

CONTRACT No. C11-12-10

SHEET No.
40 OF 50

DIMENSIONS SHOWN ON THIS PLAN ARE
IN METRES UNLESS OTHERWISE NOTED

LEGEND

LRT TRACK CENTRELINE

- - - -

EXISTING PROPERTY LINE

PROPOSED TOP OF RAIL (PROFILE)

EXISTING GROUND LINE

EAST BOUND TRACK USED AS REFERENCE LINE

E0+000.00

STATIONING ON EB TRACK

W0+000.00

STATIONING ON WB TRACK

PROPERTY REQUIRED

MATCH EXISTING

EXISTING DRIVEWAY

DESIGN VEHICLE

XX:1

TAPER RATE

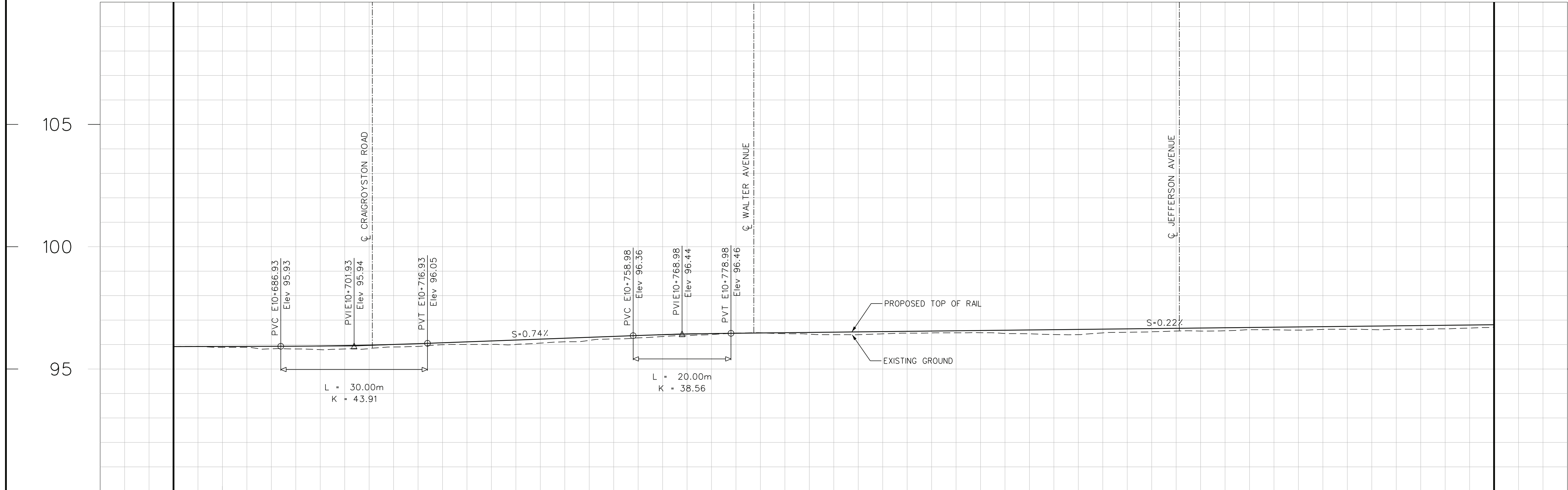
TOP OF SLOPE

BOTTOM OF SLOPE

DITCH FLOW DIRECTION

NOT FOR CONSTRUCTION

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	95.885	95.819	96.003	96.170	96.408	96.402	96.480	96.405	96.552	96.620	96.642	PROPOSED TOP OF RAIL PROFILE
	95.923	95.958	96.111	96.297	96.449	96.508	96.564	96.620	96.676	96.732	96.788	EXISTING GROUND ELEVATION
	E10+675	E10+700	E10+725	E10+750	E10+775	E10+800	E10+825	E10+850	E10+875	E10+900	E10+925	DESIGN C CHAINAGE EASTBOUND TRACK

No.

REVISIONS

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DATE

REFERENCE MATERIAL:

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0937HAMI0002_ALL_v8.dgn (OCTOBER 7, 2010)
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Sewer Plans :
Water Plans :

Geodetic Bench Mark Index
Borehole Report -

SCALES

0 5m 10m 20m

HORIZONTAL 1:500

0 1m 2m 4m

VERTICAL 1:100

Project Manager

NAME

Manager of Design

NAME

DRAWN BELDEN KUNG / BRIAN KIM

CHECKED JUAN UMANA

APPROVED STEPHAN MEHR

DATE 2011/09/20

HAMILTON LRT 'B' LINE

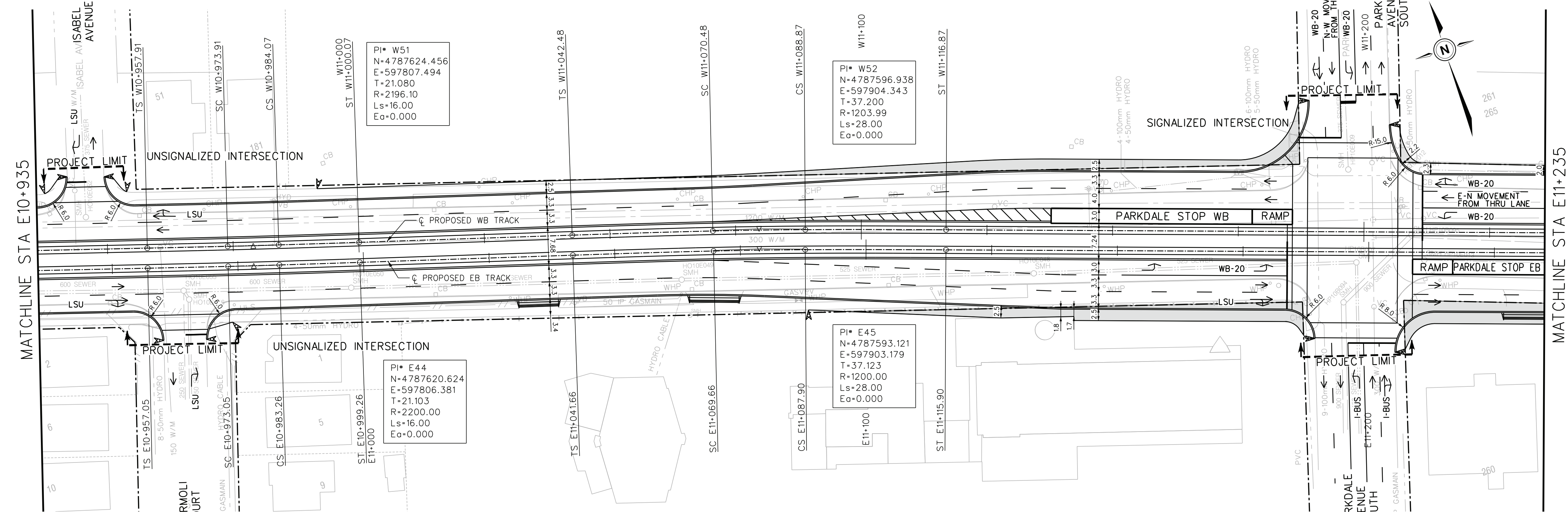
PRELIMINARY DESIGN

PLAN AND PROFILE

STA E10+665 TO STA 10+935

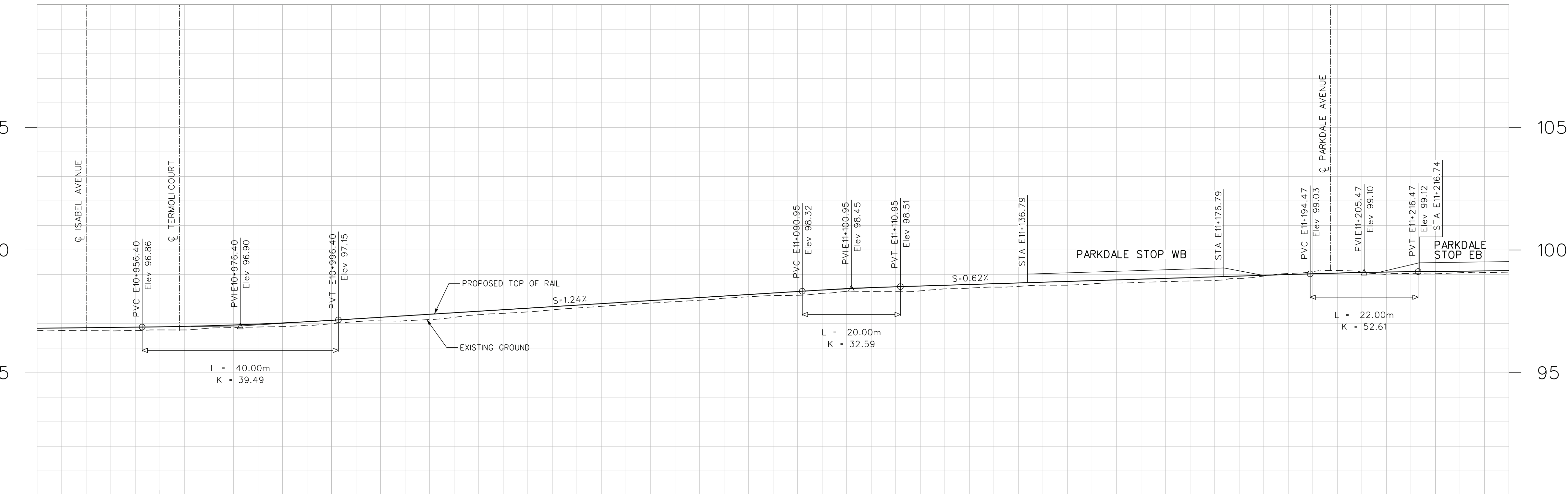
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QUEENSTON ROAD



WESTBOUND

EASTBOUND



96.705	96.845	96.841	97.081	97.362	97.705	98.036	98.316	98.448	98.618	98.756	99.161	99.075	PROPOSED TOP OF RAIL PROFILE
96.845	96.845	96.845	97.196	97.505	97.815	98.124	98.421	98.595	98.751	98.907	99.060	99.137	EXISTING GROUND ELEVATION
E10+950	E10+975	E11+000	E11+025	E11+050	E11+075	E11+100	E11+125	E11+150	E11+175	E11+200	E11+225		DESIGN C CHAINAGE EASTBOUND TRACK

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SCALES

0 5m 10m 20m
HORIZONTAL 1:500
0 1m 2m 4m
VERTICAL 1:100

Project Manager
NAME
Manager of Design
NAME

steer davis gleave

SNC-LAVALIN **DIALOG**

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HAMILTON LRT 'B' LINE

PRELIMINARY DESIGN

PLAN AND PROFILE

STA E10+935 TO STA E11+235

FILE No.

CONTRACT No. C11-12-10

SHEET No.
41 OF 50

DIMENSIONS SHOWN ON THIS PLAN ARE IN METRES UNLESS OTHERWISE NOTED

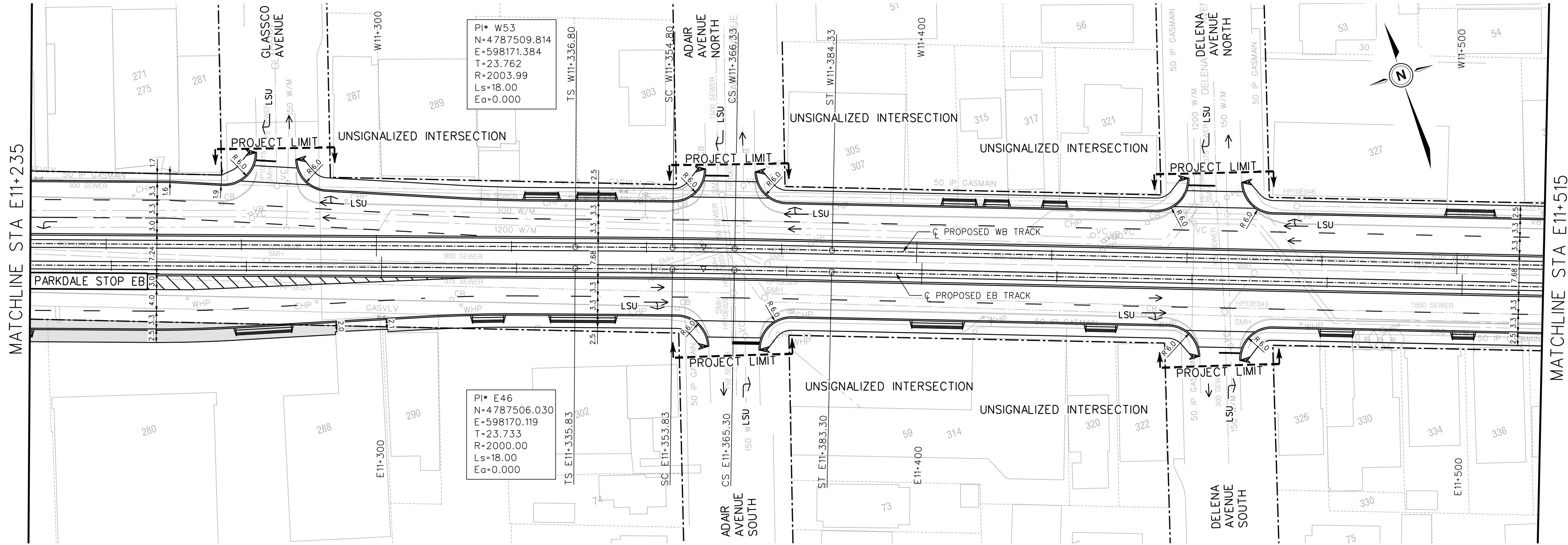
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QUEENSTON ROAD



WESTBOUND
←

→
EASTBOUND

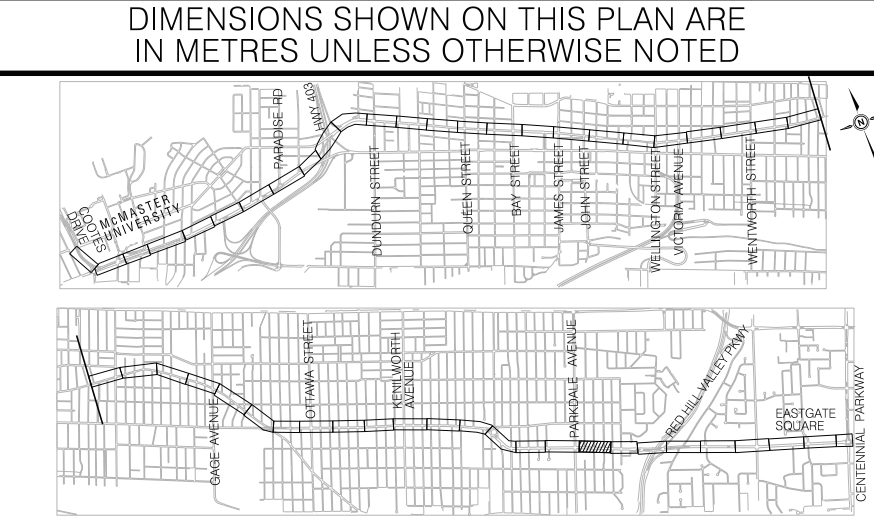
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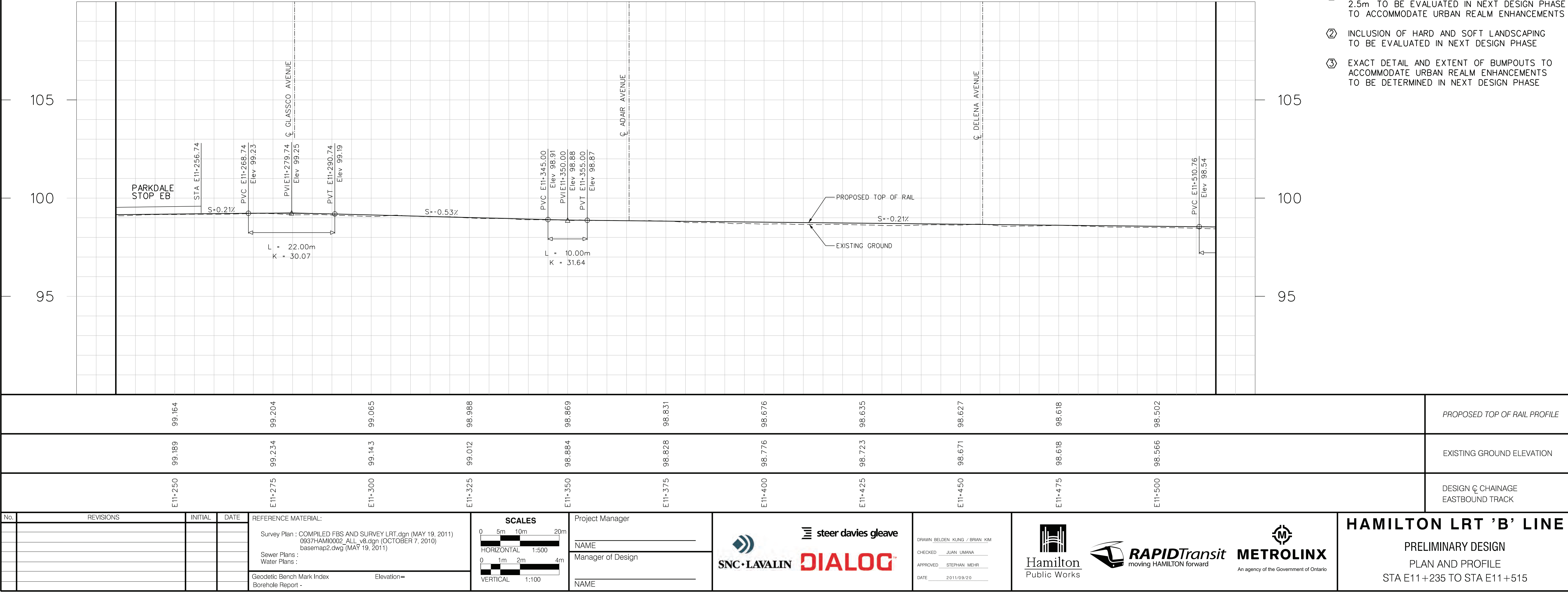
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Manager of Design

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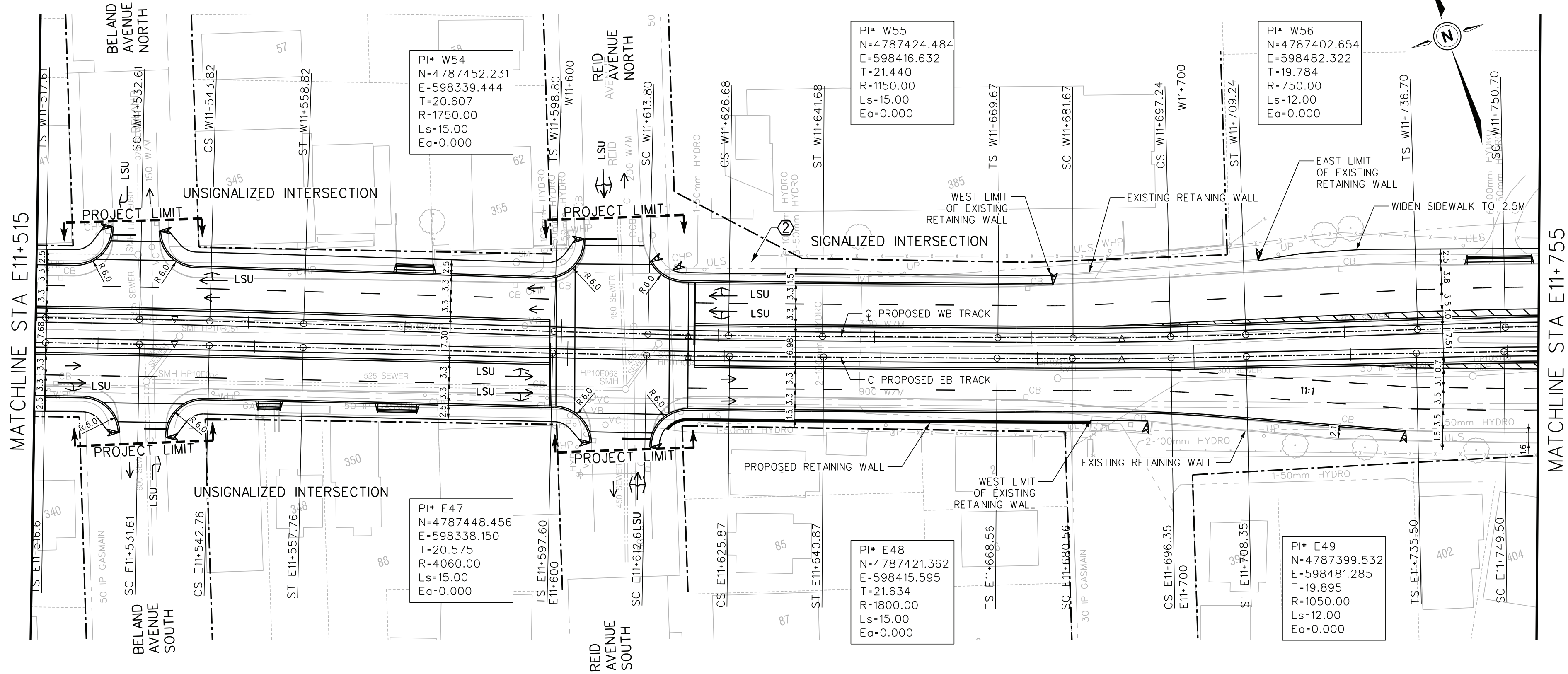
HAMILTON LRT 'B' LINE

PRELIMINARY DESIGN

PLAN AND PROFILE

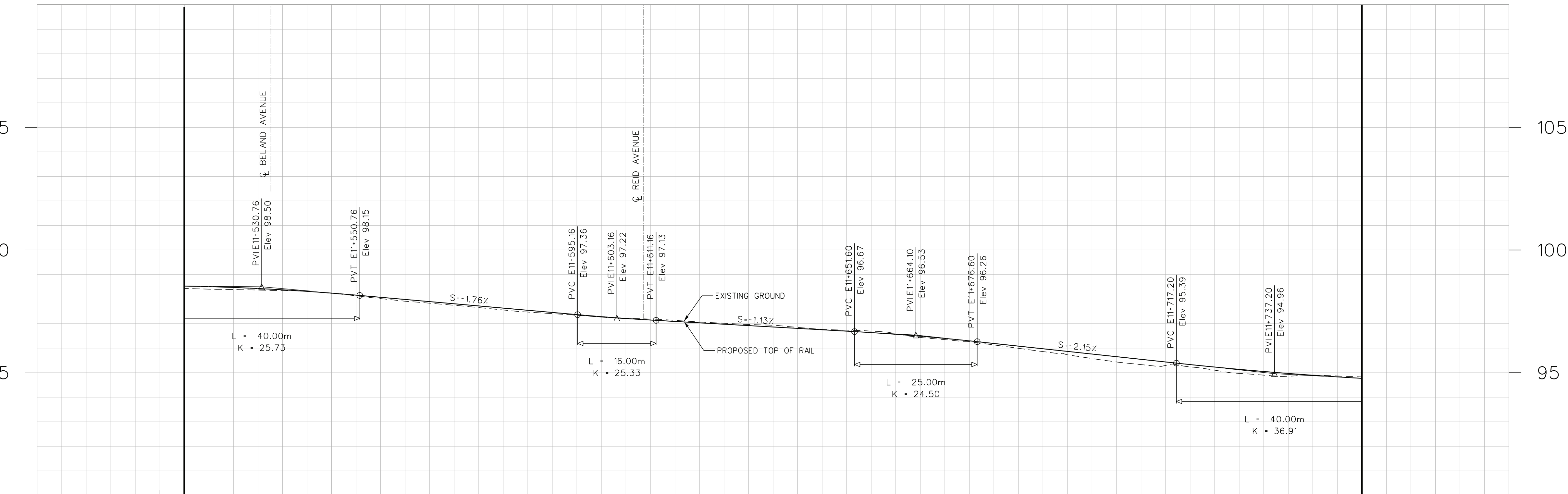
STA E11+235 TO STA E11+515

QUEENSTON ROAD



WESTBOUND
←

→
EASTBOUND



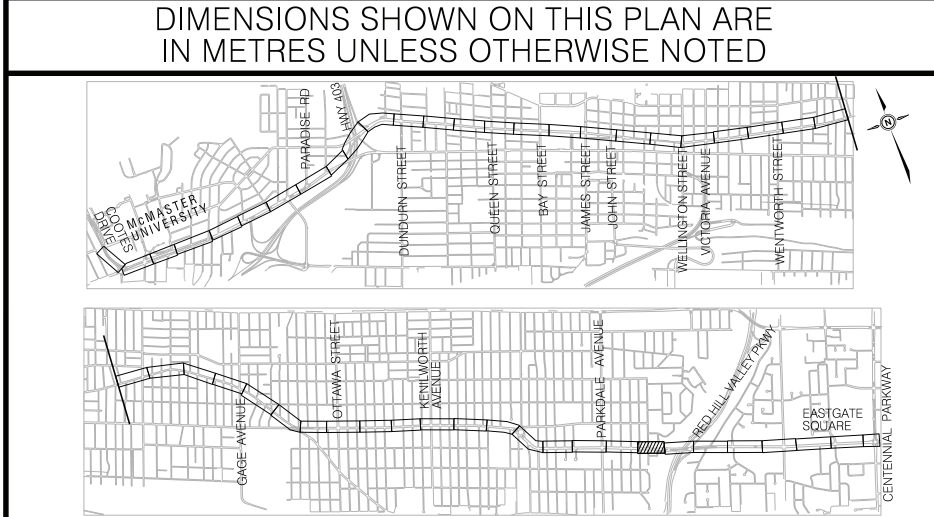
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NOT FOR CONSTRUCTION

LEGEND

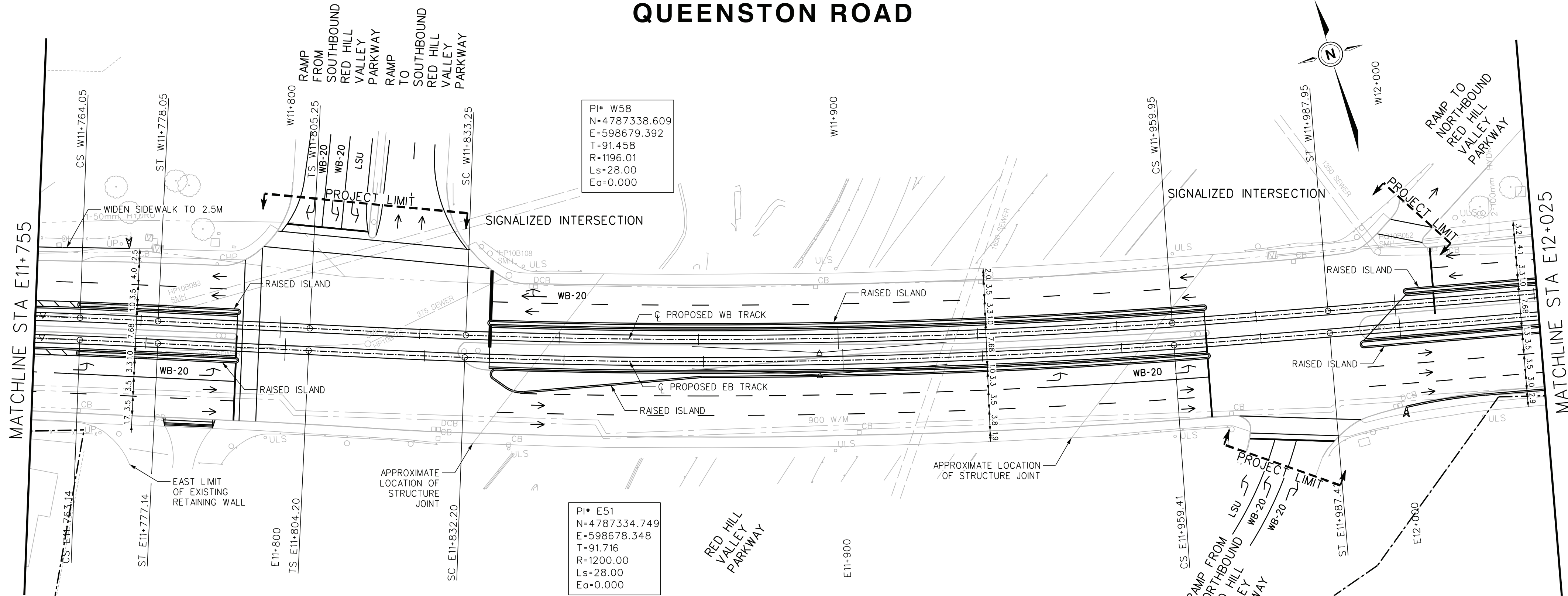
- LRT TRACK CENTRELINE
- - - - - EXISTING PROPERTY LINE
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- EAST BOUND TRACK USED AS REFERENCE LINE
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- DESIGN VEHICLE
- TAPER RATE
- TOP OF SLOPE
- BOTTOM OF SLOPE
- DITCH FLOW DIRECTION



DIMENSIONS SHOWN ON THIS PLAN ARE IN METRES UNLESS OTHERWISE NOTED

<table><tr><td>No.</td><td>REVISIONS</td><td>INITIAL</td><td>DATE</td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>				No.	REVISIONS	INITIAL	DATE													REFERENCE MATERIAL: Survey Plan : COMPILED FBS AND SURVEY LRT.dgn (MAY 19, 2011) 0937HAMI0002_ALL_v8.dgn (OCTOBER 7, 2010) basemap2.dwg (MAY 19, 2011) Sewer Plans : Water Plans : Geodetic Bench Mark Index Borehole Report -		<table><tr><td colspan="2">Elevation=</td></tr><tr><td>0</td><td>5m</td></tr><tr><td>10m</td><td>20m</td></tr><tr><td colspan="2">HORIZONTAL 1:500</td></tr><tr><td>0</td><td>1m</td></tr><tr><td>2m</td><td>4m</td></tr><tr><td colspan="2">VERTICAL 1:100</td></tr></table>		Elevation=		0	5m	10m	20m	HORIZONTAL 1:500		0	1m	2m	4m	VERTICAL 1:100		Project Manager NAME Manager of Design NAME		<div></div> <div></div> <div></div>		<div></div> <div></div> <div></div> <div></div>		<div></div> <div></div> <div></div>		HAMILTON LRT 'B' LINE PRELIMINARY DESIGN PLAN AND PROFILE STA E11+515 TO STA E11+755	
No.	REVISIONS	INITIAL	DATE																																												
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QUEENSTON ROAD



WESTBOUND
←

→
EASTBOUND



NOTES:

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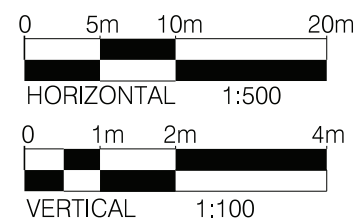
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Survey Plan : COMPILED FBS AND SURVEY LRT.dgn (MAY 19, 2011)
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basemap2.dwg (MAY 19, 2011)
Sewer Plans :
Water Plans :
Geodetic Bench Mark Index
Borehole Report -

SCALES



Project Manager

NAME
Manager of Design
NAME



DRAWN BELDEN KUNG / BRIAN KIM
CHECKED JUAN UMANA
APPROVED STEPHAN MEHR
DATE 2011/09/20



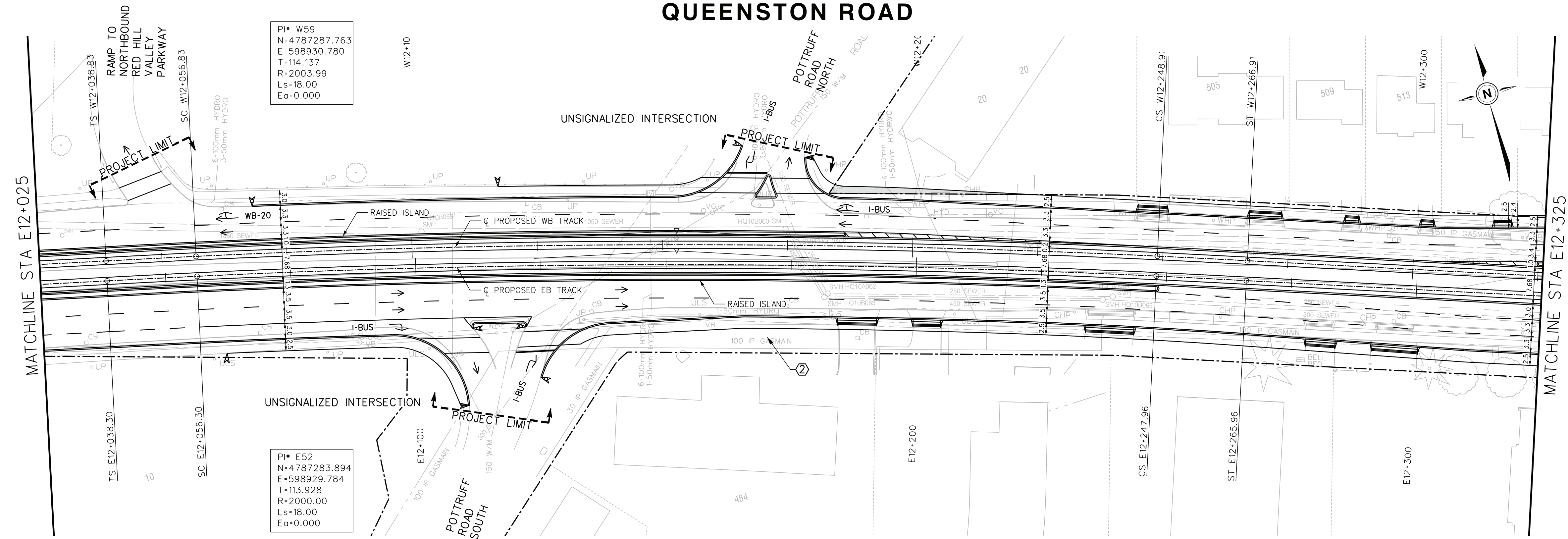
HAMILTON LRT 'B' LINE

PRELIMINARY DESIGN

PLAN AND PROFILE

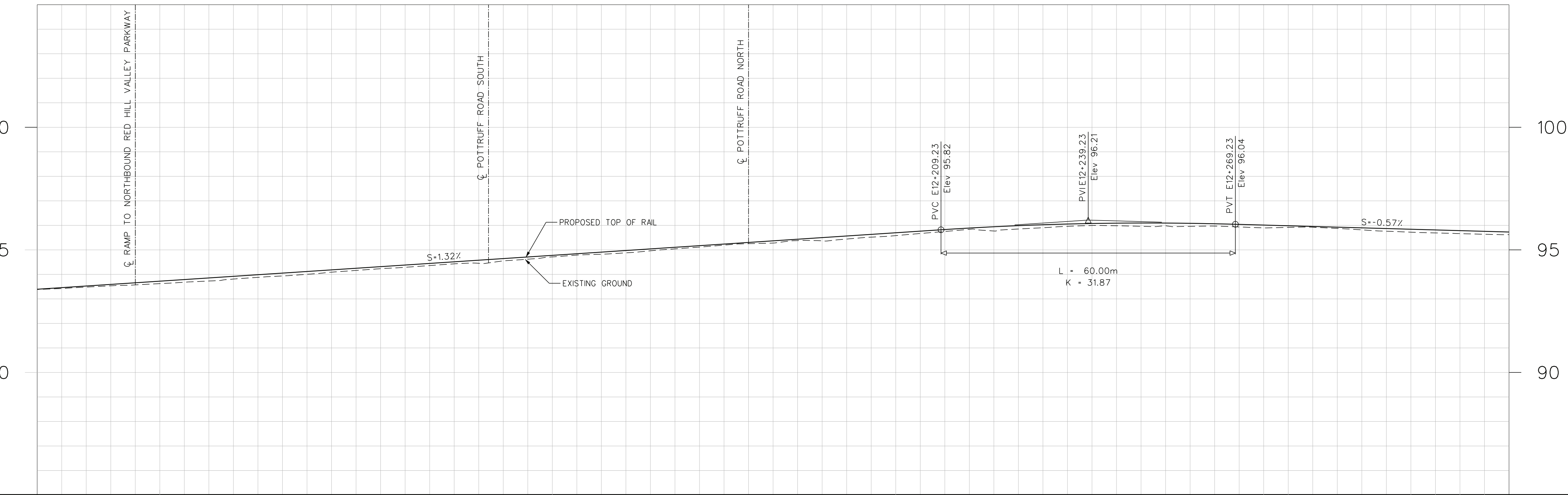
STA E11+755 TO STA E12+025

QUEENSTON ROAD



WESTBOUND
←

→
EASTBOUND



93.384	93.623	93.935	94.289	94.619	94.961	95.277	95.581	95.851	95.960	95.897	95.762	95.620	PROPOSED TOP OF RAIL PROFILE
93.395	93.724	94.053	94.382	94.711	95.040	95.369	95.698	95.988	96.095	96.012	95.870	95.729	EXISTING GROUND ELEVATION
E12+025	E12+050	E12+075	E12+100	E12+125	E12+150	E12+175	E12+200	E12+225	E12+250	E12+275	E12+300	E12+325	DESIGN Q CHAINAGE EASTBOUND TRACK

No.	REVISIONS	INITIAL	DATE

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Sewer Plans :	
Geodetic Bench Mark Index	Elevation=
Borehole Report -	

SCALES	
0 5m 10m 20m	
HORIZONTAL 1:500	
0 1m 2m 4m	
VERTICAL 1:100	

Project Manager	NAME
Manager of Design	NAME
NAME	

DRAWN BELDEN KUNG / BRIAN KIM
CHECKED JUAN UMANA
APPROVED STEPHAN MEHR
DATE 2011/09/20

HAMILTON LRT 'B' LINE

PRELIMINARY DESIGN

PLAN AND PROFILE

STA E12+025 TO STA E12+325

FILE No.

CONTRACT No. C11-12-10

SHEET No.
45 OF 50

DIMENSIONS SHOWN ON THIS PLAN ARE
IN METRES UNLESS OTHERWISE NOTED

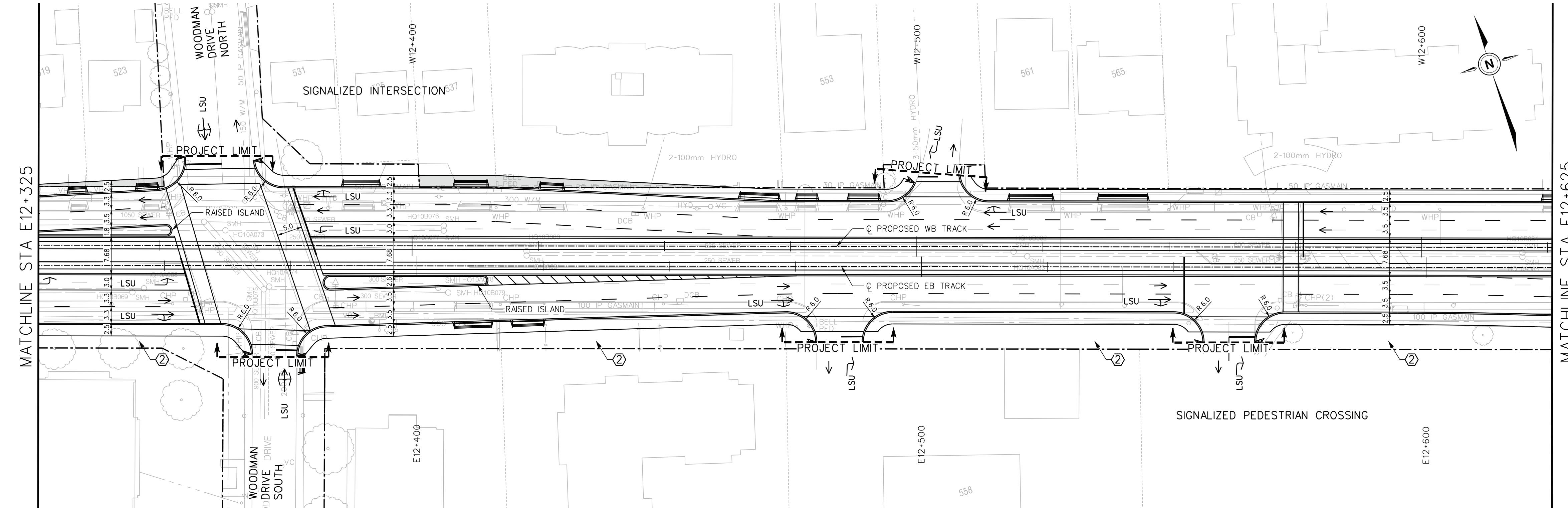
LEGEND

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- DESIGN VEHICLE
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- TOP OF SLOPE
- BOTTOM OF SLOPE
- DITCH FLOW DIRECTION

NOT FOR CONSTRUCTION

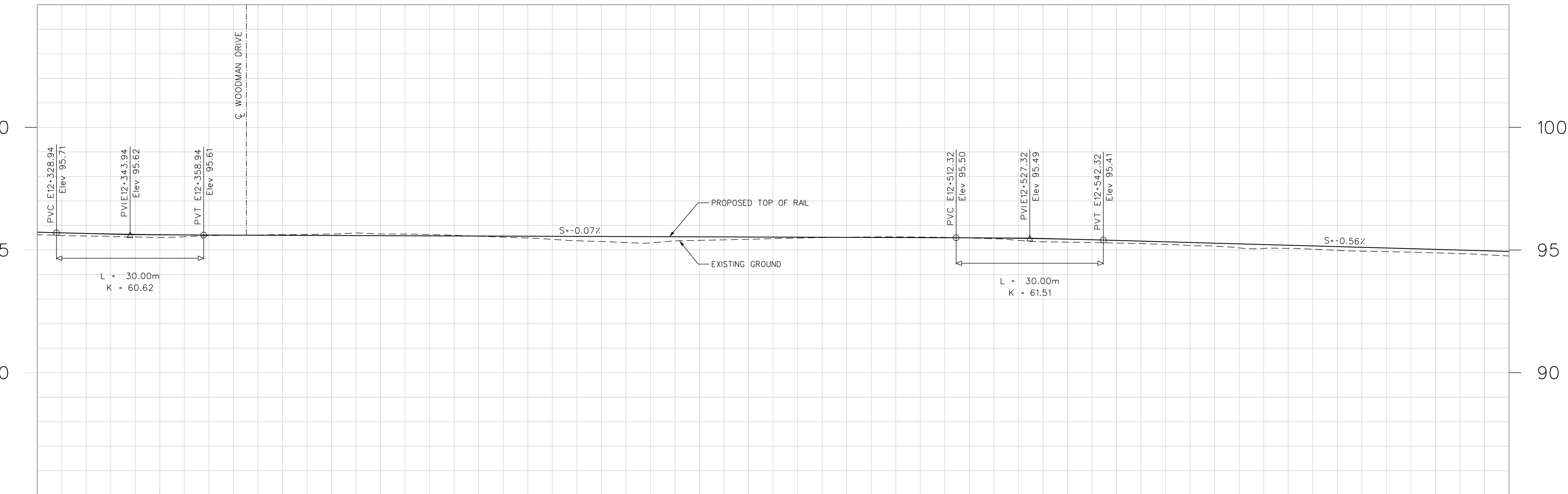
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QUEENSTON ROAD



WESTBOUND

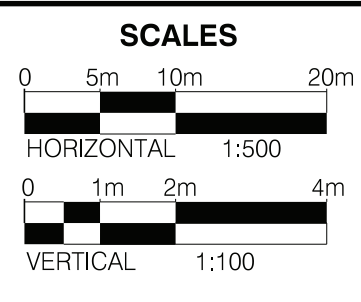
EASTBOUND



95.620	95.513	95.628	95.651	95.491	95.293	95.465	95.538	95.394	95.261	95.063	94.934	94.758	PROPOSED TOP OF RAIL PROFILE
95.729	95.624	95.599	95.581	95.563	95.545	95.527	95.510	95.479	95.363	95.223	95.083	94.944	EXISTING GROUND ELEVATION
E12+325	E12+350	E12+375	E12+400	E12+425	E12+450	E12+475	E12+500	E12+525	E12+550	E12+575	E12+600	E12+625	DESIGN \varnothing CHAINAGE EASTBOUND TRACK

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Borehole Report -



Project Manager
NAME
Manager of Design
NAME



DRAWN BELDEN KLING / BRIAN KIM
CHECKED JUAN UMANA
APPROVED STEPHAN MEHR
DATE 2011/09/20



HAMILTON LRT 'B' LINE
PRELIMINARY DESIGN
PLAN AND PROFILE
STA E12+325 TO STA E12+625

FILE No.

CONTRACT No. C11-12-10

SHEET No.
46 OF 50

DIMENSIONS SHOWN ON THIS PLAN ARE
IN METRES UNLESS OTHERWISE NOTED

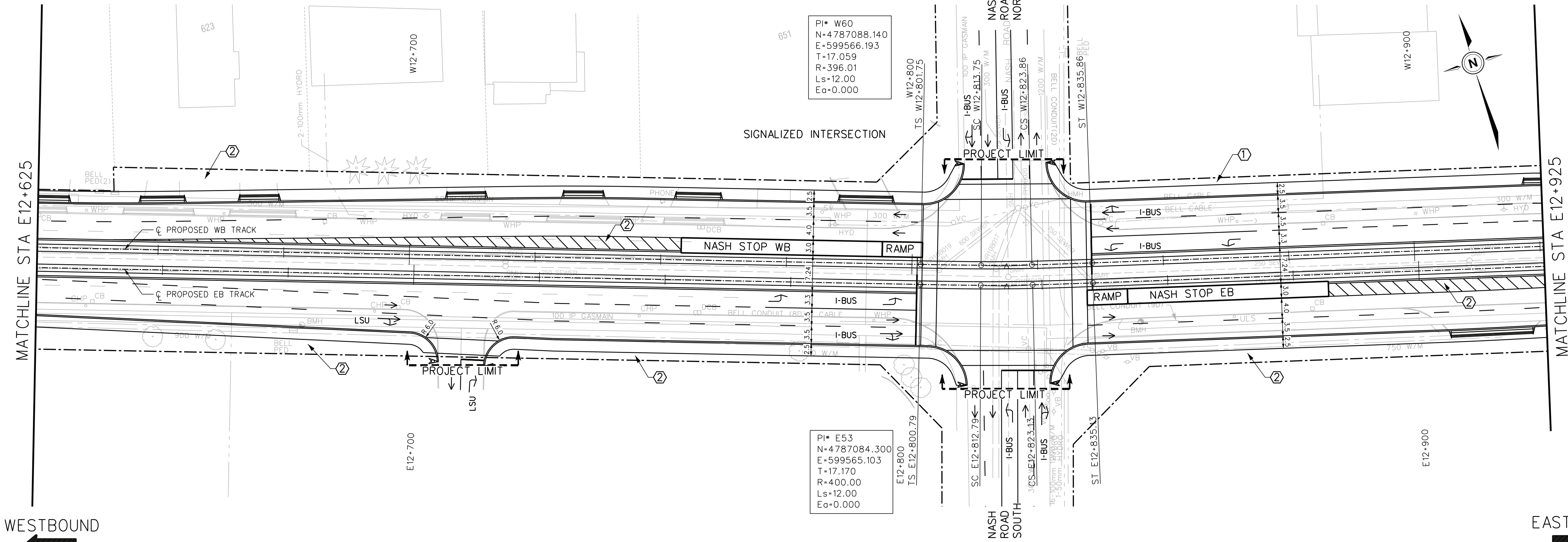
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NOT FOR CONSTRUCTION

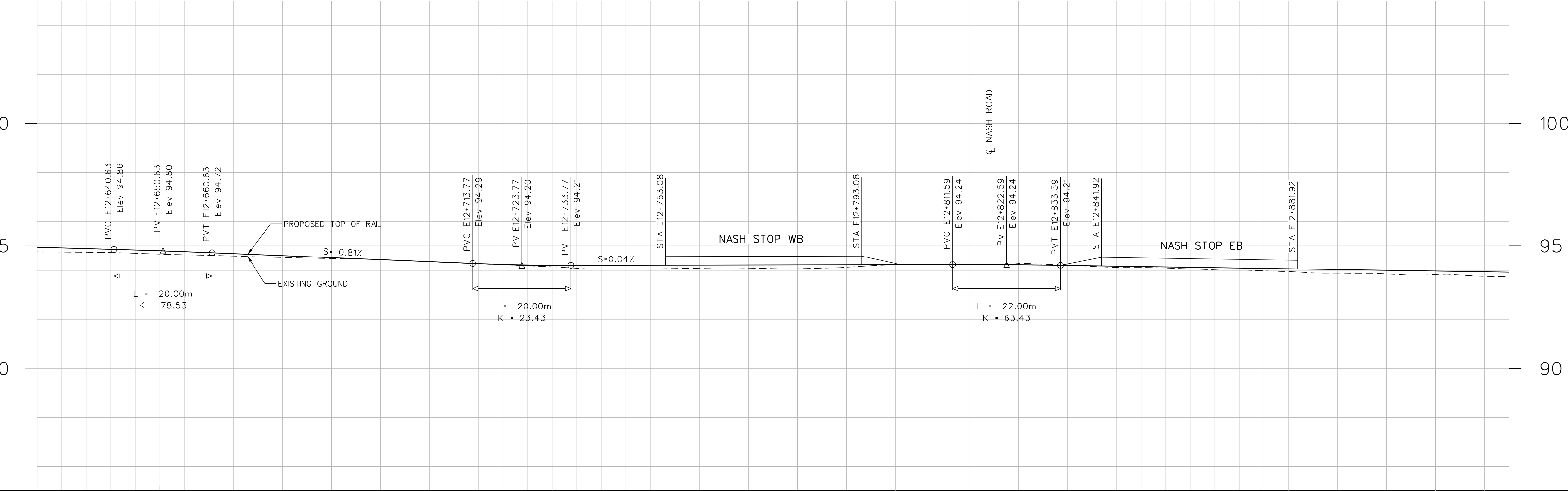
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QUEENSTON ROAD



WESTBOUND

EASTBOUND



94.758	94.664	94.528	94.400	94.191	94.060	94.073	94.234	94.278	94.118	93.984	93.858	93.754
94.944	94.798	94.602	94.398	94.222	94.215	94.225	94.235	94.231	94.160	94.083	94.006	93.929
E12+625	E12+650	E12+675	E12+700	E12+725	E12+750	E12+775	E12+800	E12+825	E12+850	E12+875	E12+900	E12+925

PROPOSED TOP OF RAIL PROFILE

EXISTING GROUND ELEVATION

DESIGN C/C CHAINAGE
EASTBOUND TRACK

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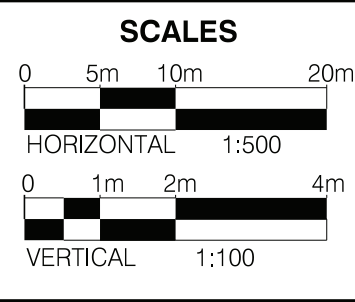
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Project Manager
NAME
Manager of Design
NAME

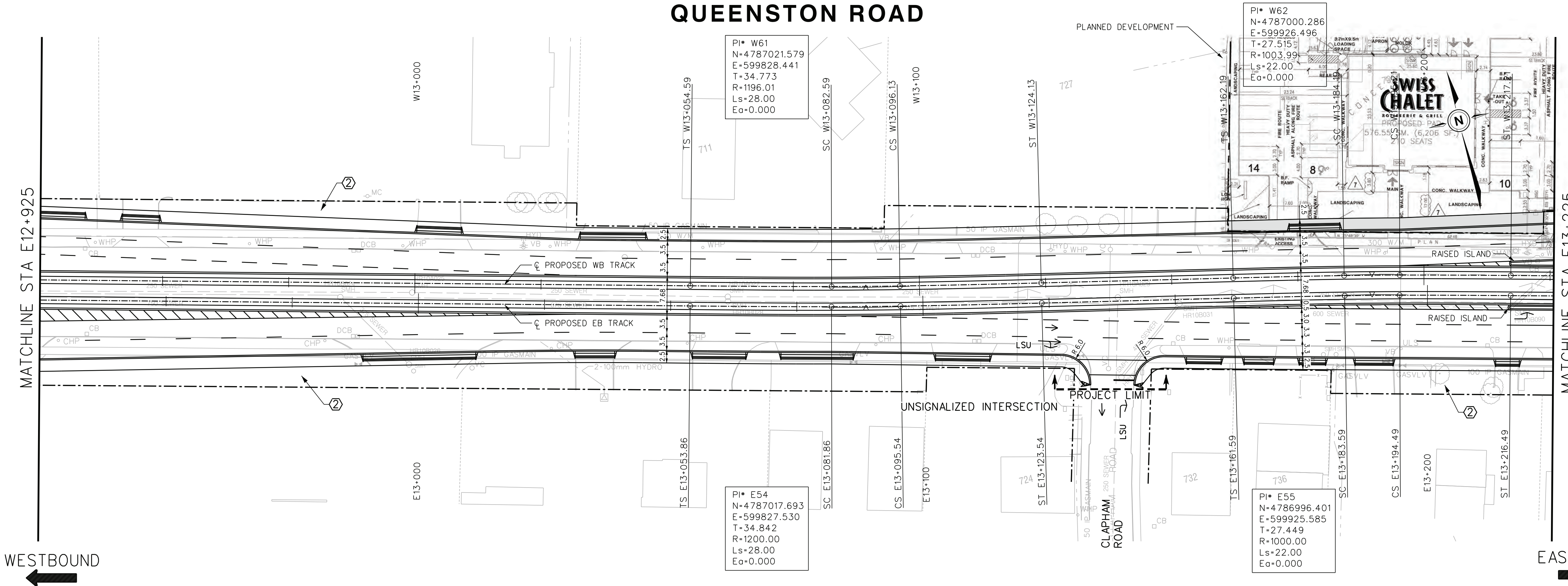


DRAWN BELDEN KUNG / BRIAN KIM
CHECKED JUAN UMANA
APPROVED STEPHAN MEHR
DATE 2011/09/20



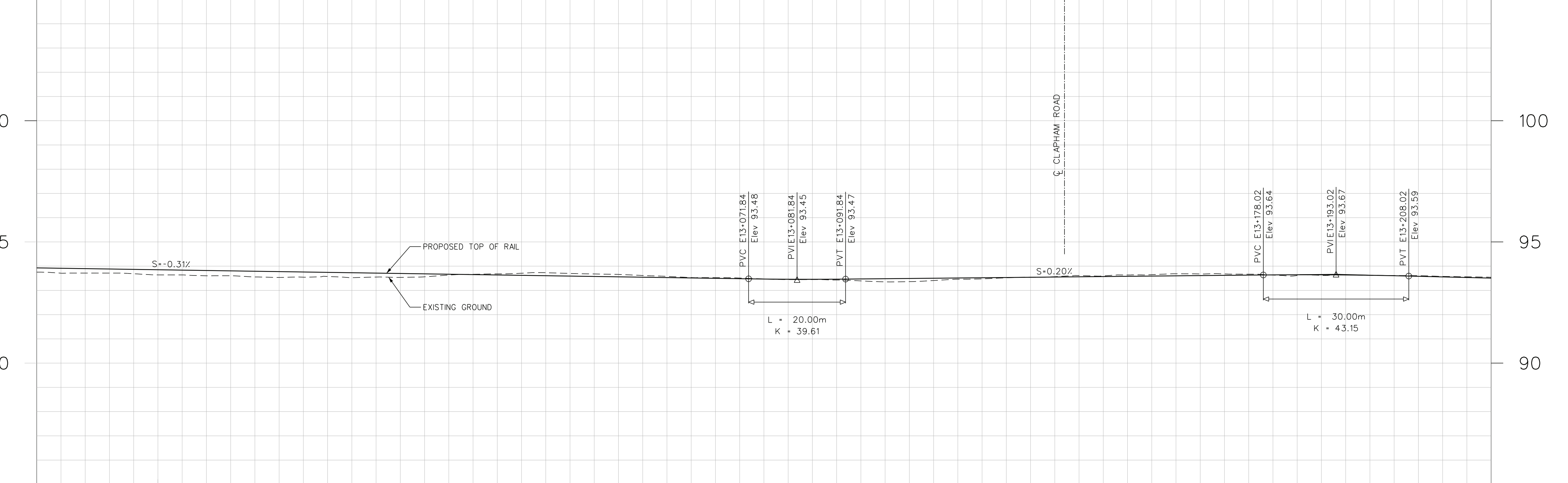
HAMILTON LRT 'B' LINE
PRELIMINARY DESIGN
PLAN AND PROFILE
STA E12+625 TO STA E12+925

QUEENSTON ROAD



WESTBOUND

EASTBOUND



93.754	93.639	93.534	93.537	93.709	93.616	93.472	93.354	93.519	93.636	93.670	93.623	93.542	PROPOSED TOP OF RAIL PROFILE
93.929	93.852	93.775	93.698	93.621	93.545	93.469	93.483	93.532	93.581	93.631	93.624	93.507	EXISTING GROUND ELEVATION
E12+925	E12+950	E12+975	E13+000	E13+025	E13+050	E13+075	E13+100	E13+125	E13+150	E13+175	E13+200	E13+225	DESIGN Q CHAINAGE EASTBOUND TRACK

FILE No.

CONTRACT No. C11-12-10

SHEET No.
48 OF 50

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LEGEND

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Sewer Plans :
Water Plans :

Geodetic Bench Mark Index
Borehole Report -

Elevation=

SCALES

- 0 5m 10m 20m
- HORIZONTAL 1:500
- 0 1m 2m 4m
- VERTICAL 1:100

Project Manager
NAME
Manager of Design
NAME

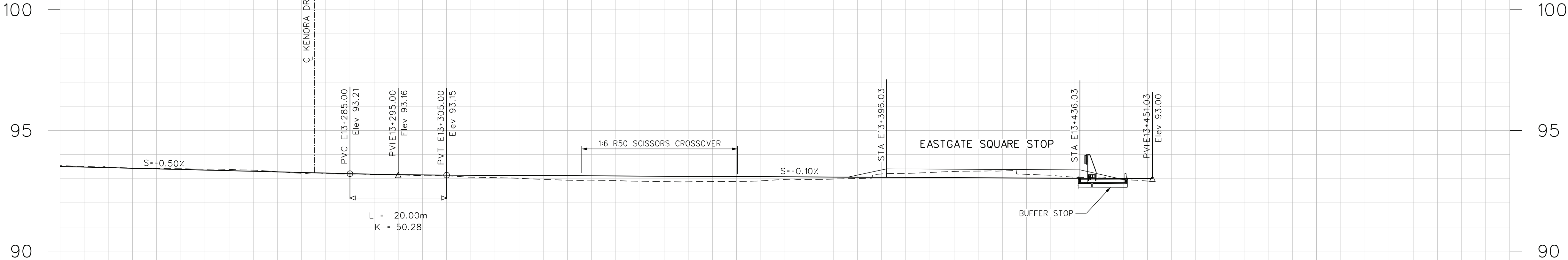
DRAWN BELDEN KUNG / BRIAN KIM
CHECKED JUAN UMANA
APPROVED STEPHAN MEHR
DATE 2011/09/20

HAMILTON LRT 'B' LINE
PRELIMINARY DESIGN
PLAN AND PROFILE
STA E12+925 TO STA E13+225

MATCHLINE H
SEE SHEET 50

NOTES:

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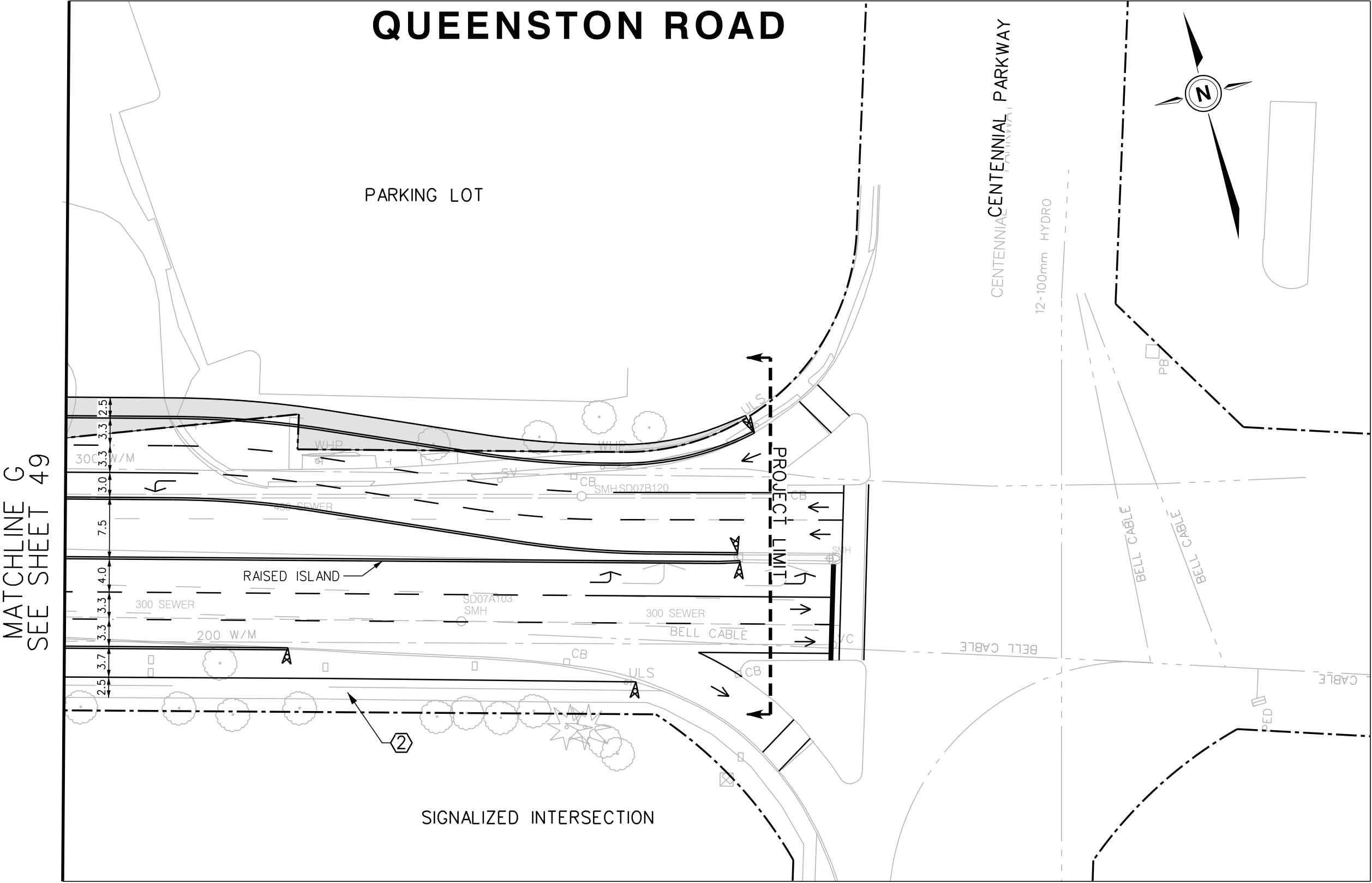


HAMILTON LRT 'B' LINE

PRELIMINARY DESIGN

PLAN AND PROFILE

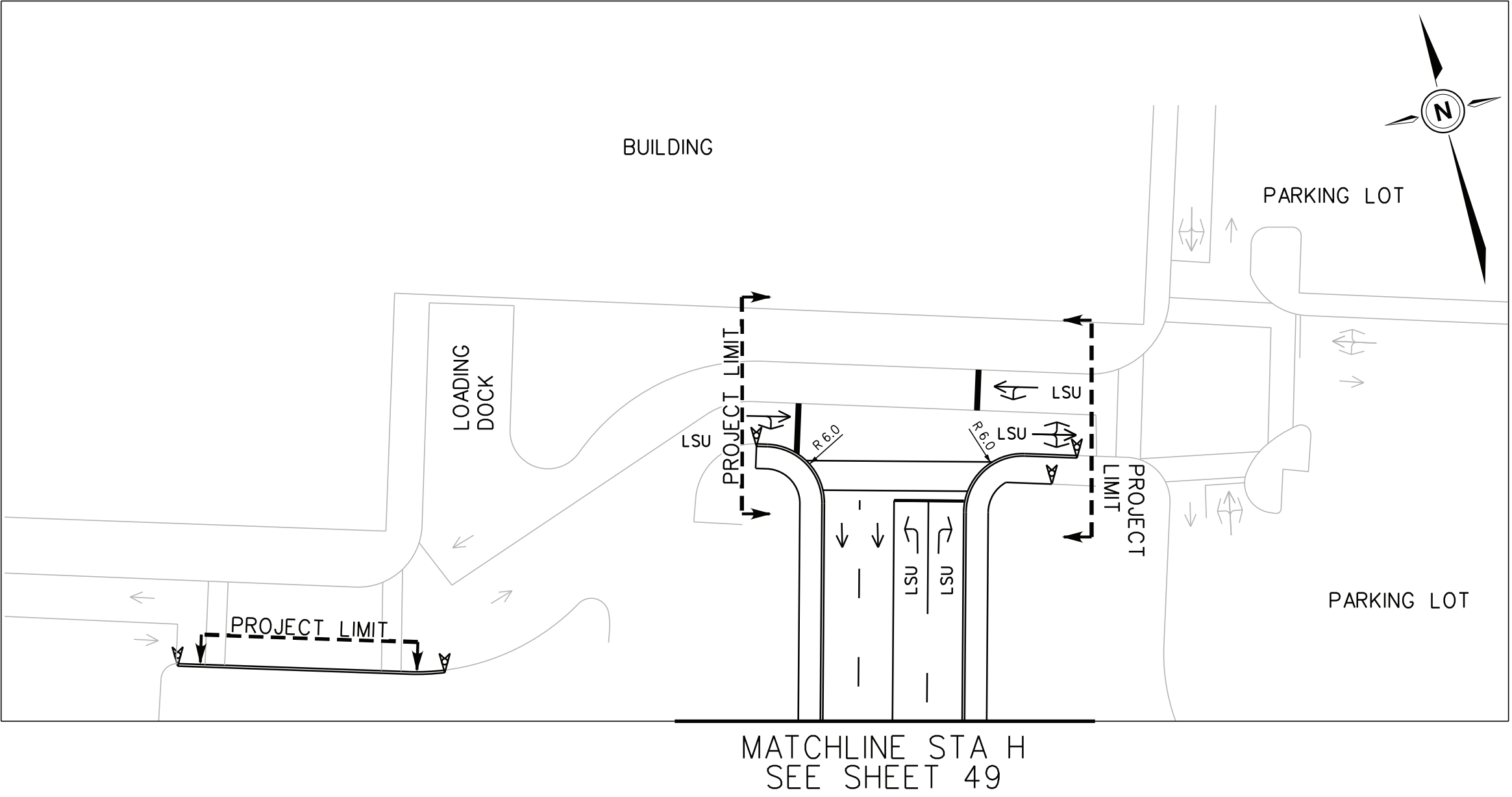
STA E13+225 TO STA E13+451.02



WESTBOUND
←

NO BACKGROUND INFORMATION AVAILABLE ON SURVEY PLAN

→ EASTBOUND



FILE No.

CONTRACT No. C11-12-10

SHEET No.
50 OF 50

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PROPOSED TOP OF RAIL PROFILE

EXISTING GROUND ELEVATION

DESIGN & CHAINAGE
EASTBOUND TRACK

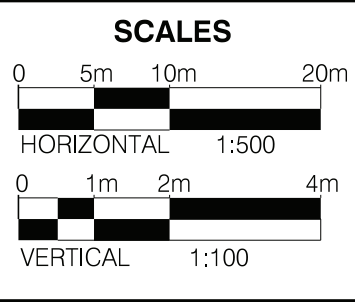
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Borehole Report -



Project Manager
NAME
Manager of Design
NAME



DRAWN BELDEN KUNG / BRIAN KIM
CHECKED JUAN UMANA
APPROVED STEPHAN MEHR
DATE 2011/09/22



HAMILTON LRT 'B' LINE
PRELIMINARY DESIGN
PLAN AND PROFILE
EAST END