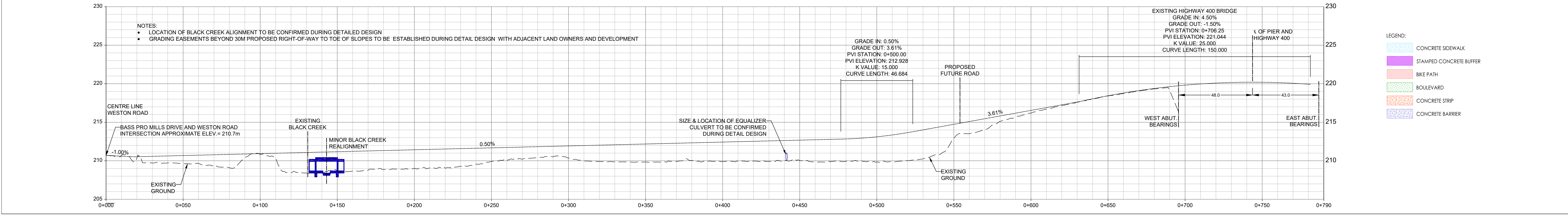
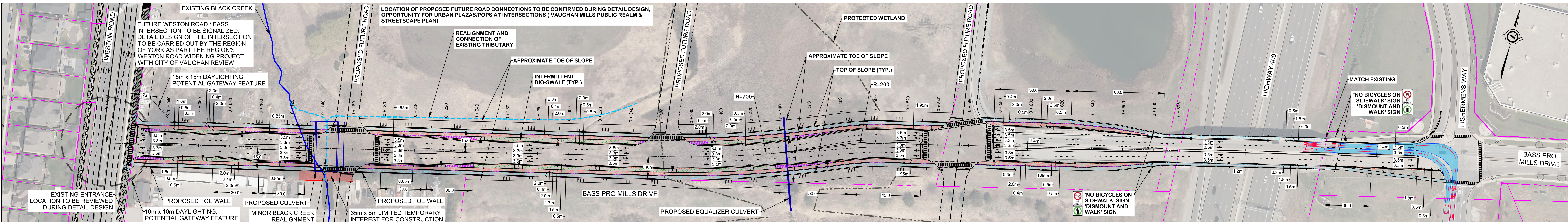


**BASS PRO MILLS DRIVE, FROM HIGHWAY 400 TO WESTON ROAD MUNICIPAL CLASS
ENVIRONMENTAL ASSESSMENT**

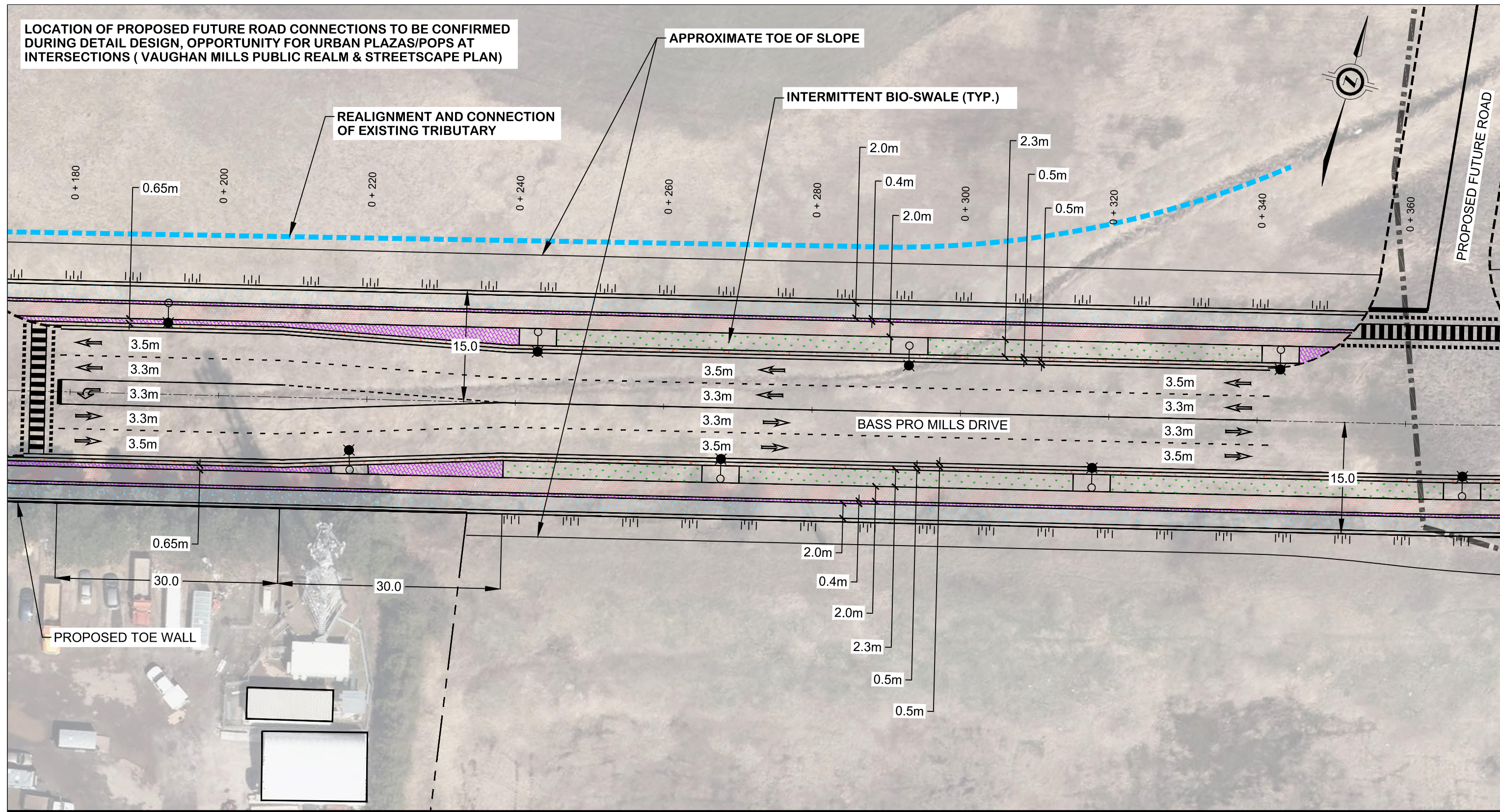
Appendix L Preliminary Design

Appendix L PRELIMINARY DESIGN





LOCATION OF PROPOSED FUTURE ROAD CONNECTIONS TO BE CONFIRMED DURING DETAIL DESIGN, OPPORTUNITY FOR URBAN PLAZAS/POPS AT INTERSECTIONS (VAUGHAN MILLS PUBLIC REALM & STREETSCAPE PLAN)



300-675 Cochrane Drive, West Tower
Markham ON
www.stantec.com

LEGEND:

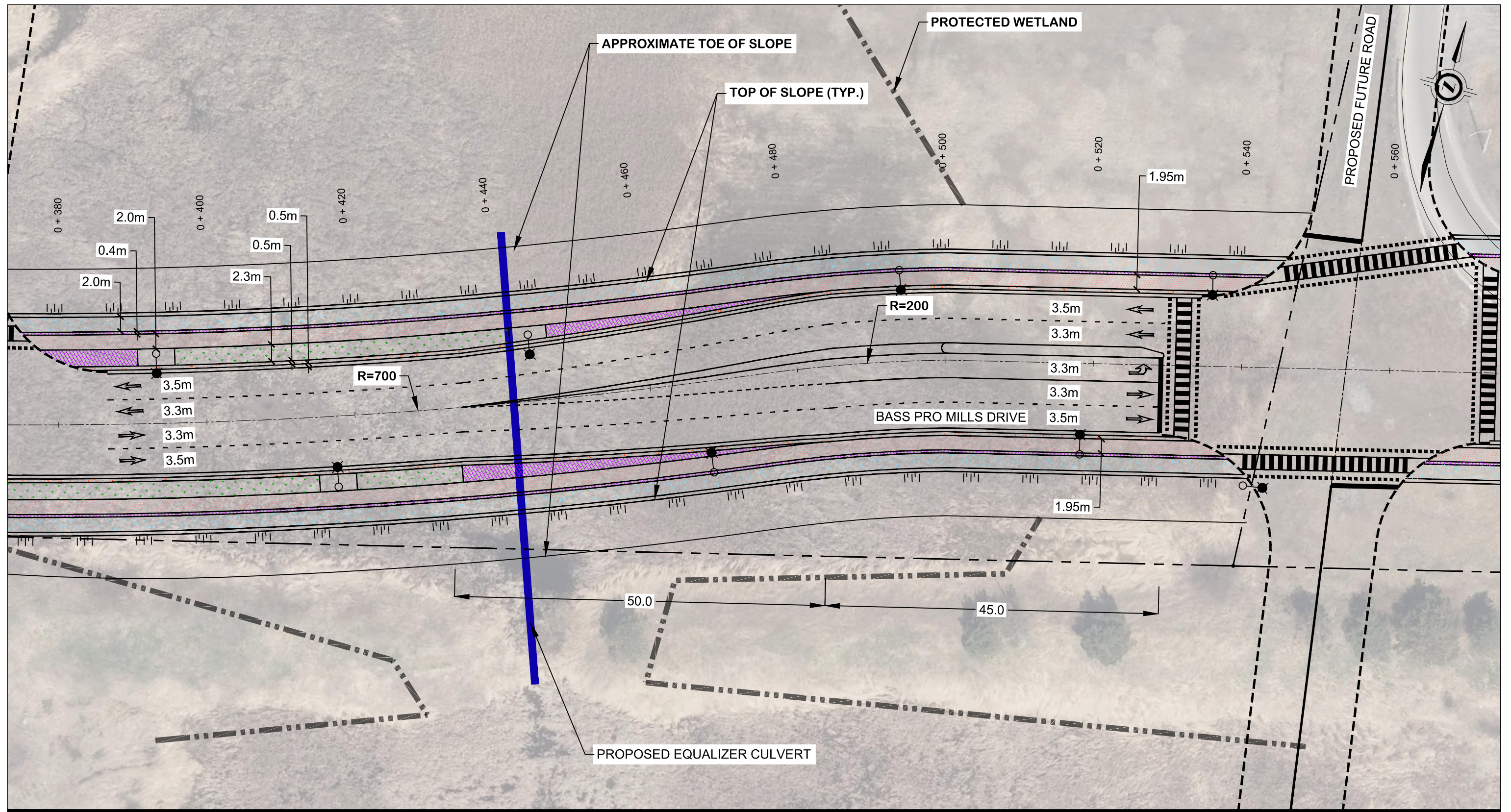
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| | CONCRETE SIDEWALK | | CONCRETE STRIP |
| | STAMPED CONCRETE BUFFER | | CONCRETE BARRIER |
| | BIKE PATH | | |
| | BOULEVARD | | |

Client/Project
CITY OF VUAGHAN

Figure No.
PLAN - 2



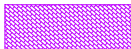


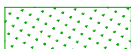
Title
ENVIRONMENTAL ASSESSMENT

Scale
1:500



300-675 Cochrane Drive, West Tower
 Markham ON
 www.stantec.com

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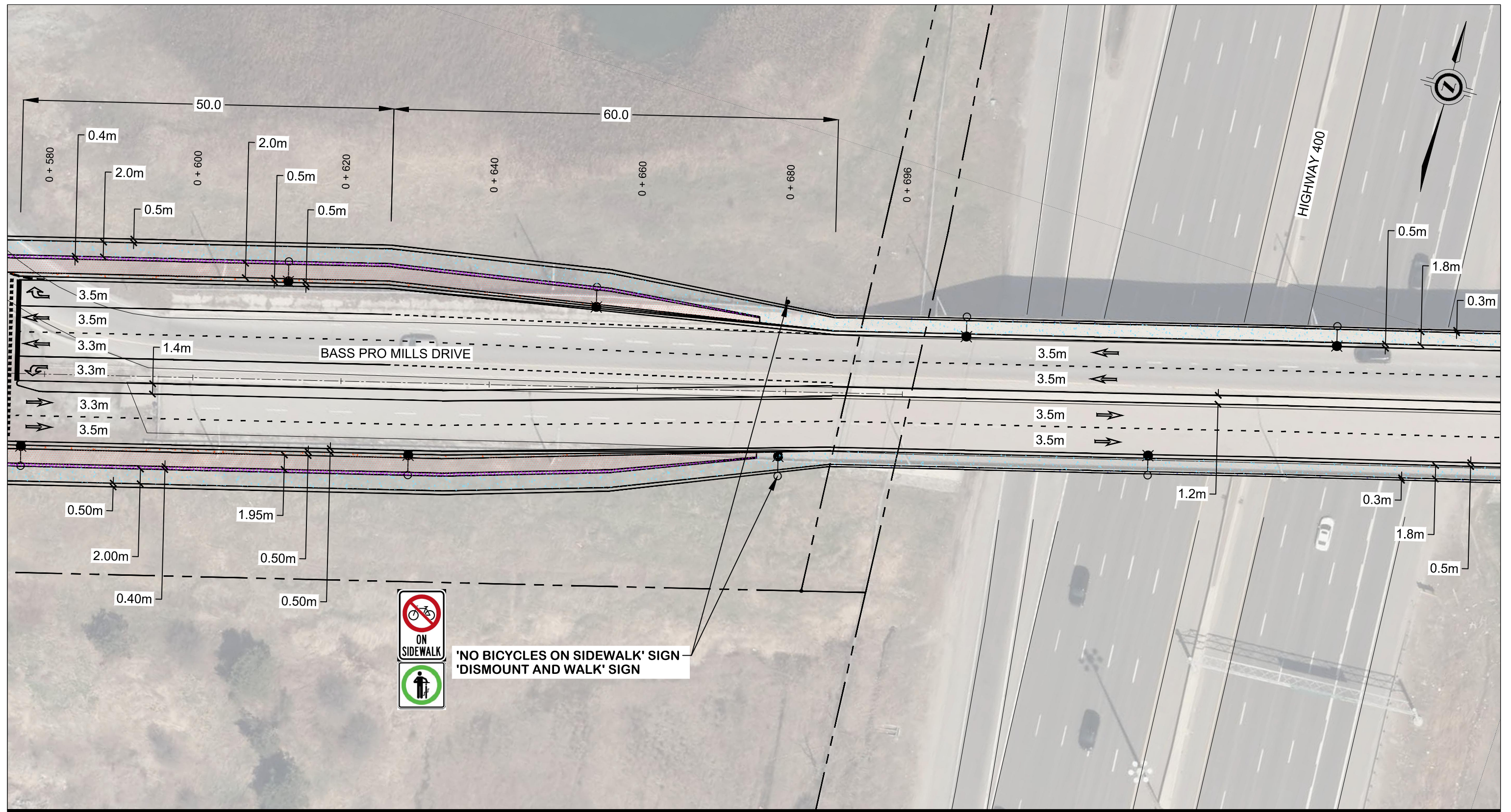
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|  | STAMPED CONCRETE BUFFER |  | CONCRETE BARRIER |
|  | BIKE PATH | | |
|  | BOULEVARD | | |

Client/Project
 CITY OF VUAGHAN

Figure No.
 PLAN - 3




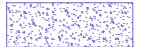


Title
 ENVIRONMENTAL ASSESSMENT

Scale
 1:500



300-675 Cochrane Drive, West Tower
Markham ON
www.stantec.com

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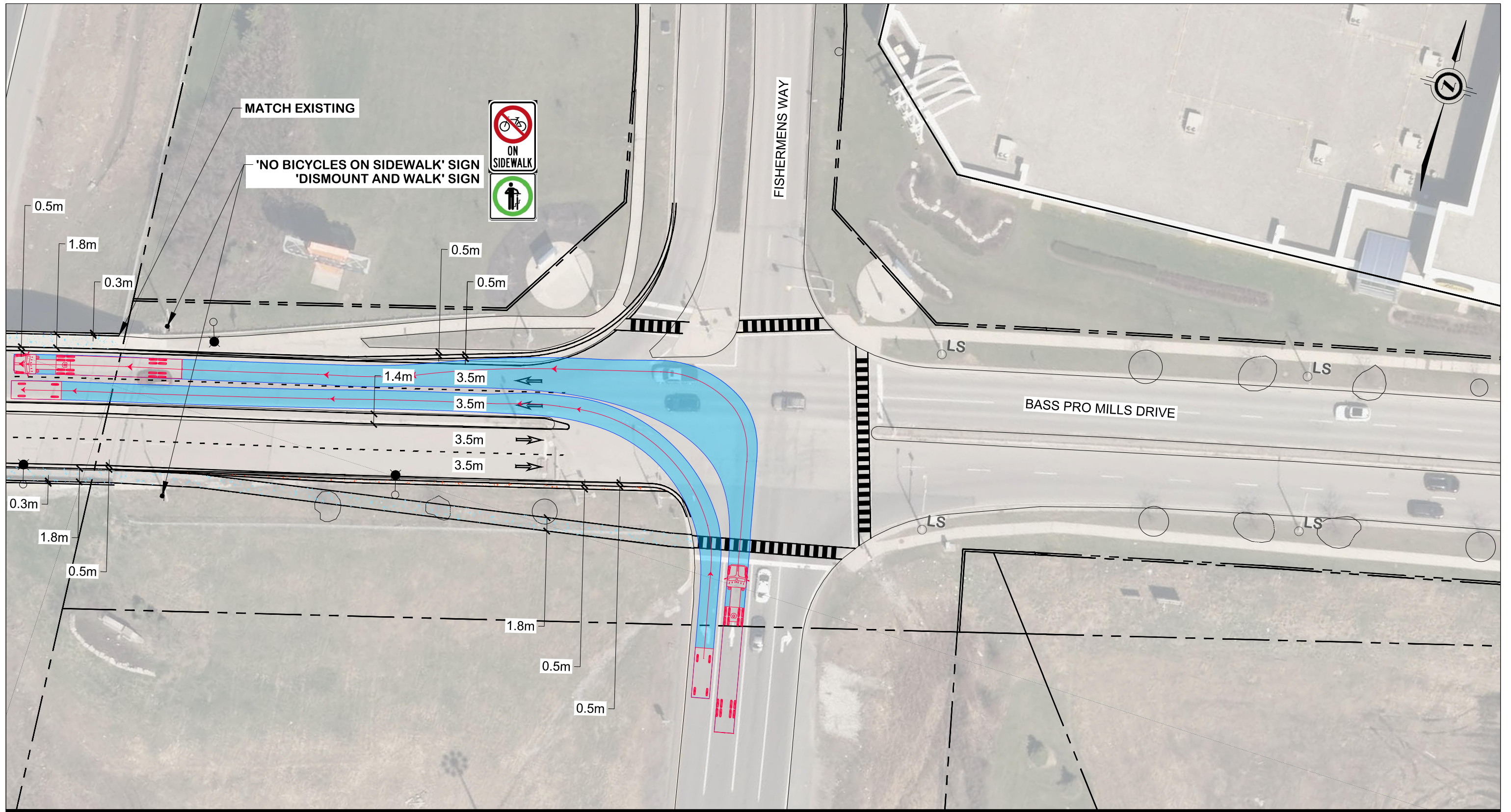
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|  | STAMPED CONCRETE BUFFER |  | CONCRETE BARRIER |
|  | BIKE PATH | | |
|  | BOULEVARD | | |

Client/Project
CITY OF VUAGHAN

Figure No.
PLAN - 4



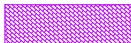



Title
ENVIRONMENTAL ASSESSMENT

Scale
1:500



300-675 Cochrane Drive, West Tower
Markham ON
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LEGEND:

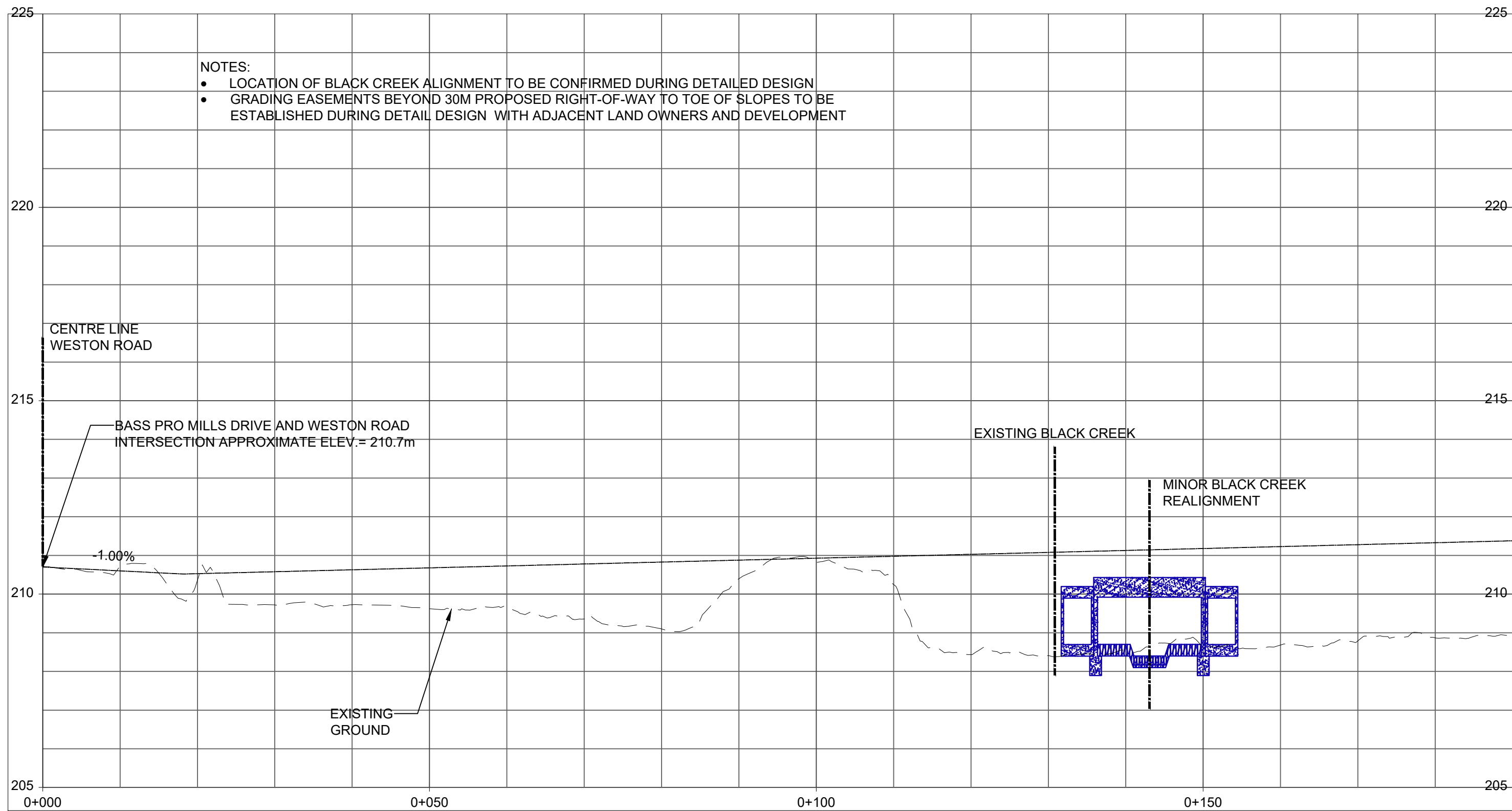
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|  | STAMPED CONCRETE BUFFER |  | CONCRETE BARRIER |
|  | BIKE PATH | | |
|  | BOULEVARD | | |

Client/Project
CITY OF VUAGHAN

Figure No.
PLAN - 5

Title
ENVIRONMENTAL ASSESSMENT

Scale
1:500



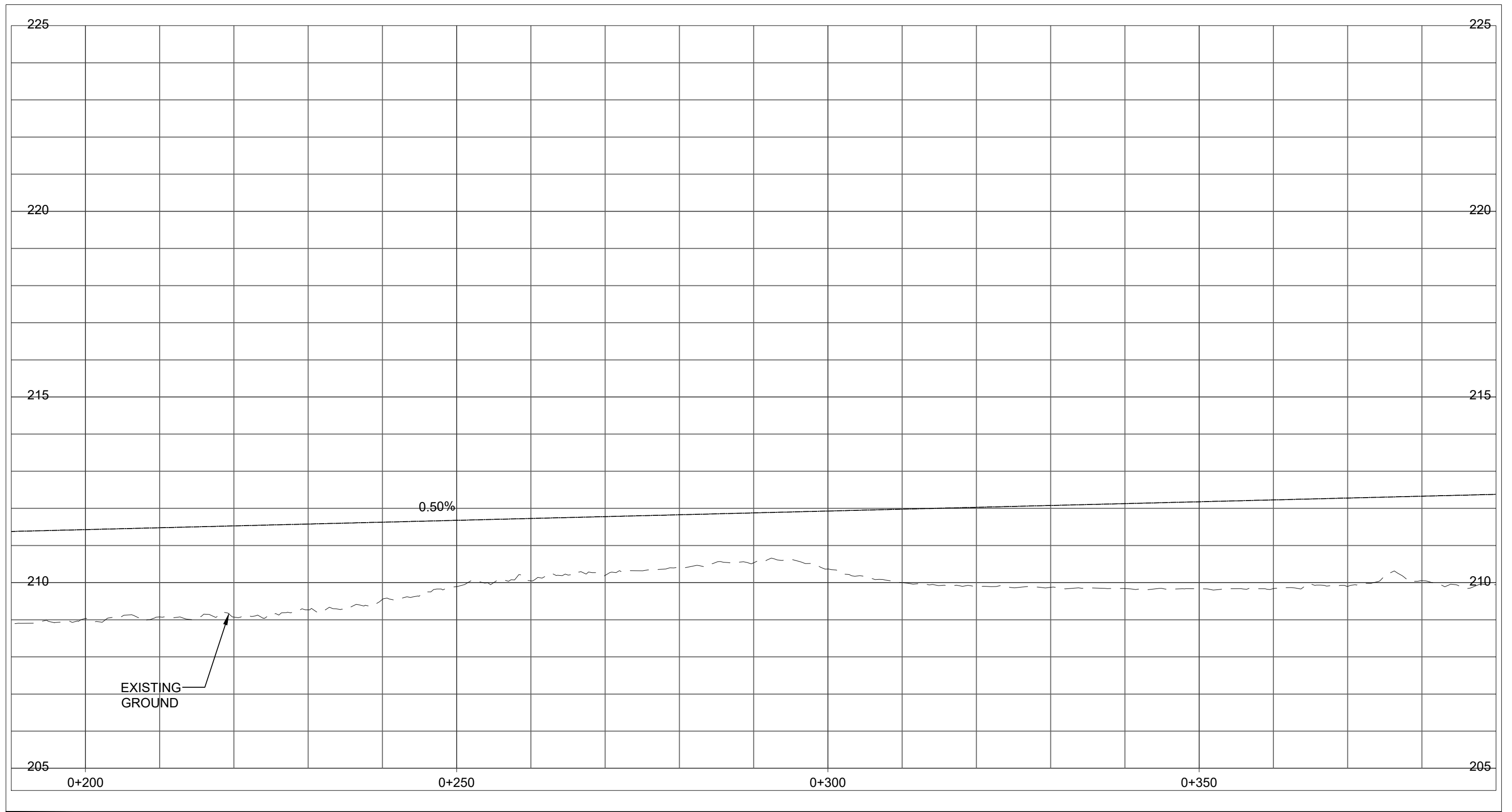
300-675 Cochrane Drive, West Tower
 Markham ON
 www.stantec.com

Client/Project
 CITY OF VUAGHAN

Figure No.
 PROFILE - 1

Title
 ENVIRONMENTAL ASSESSMENT

Scale
 1:500



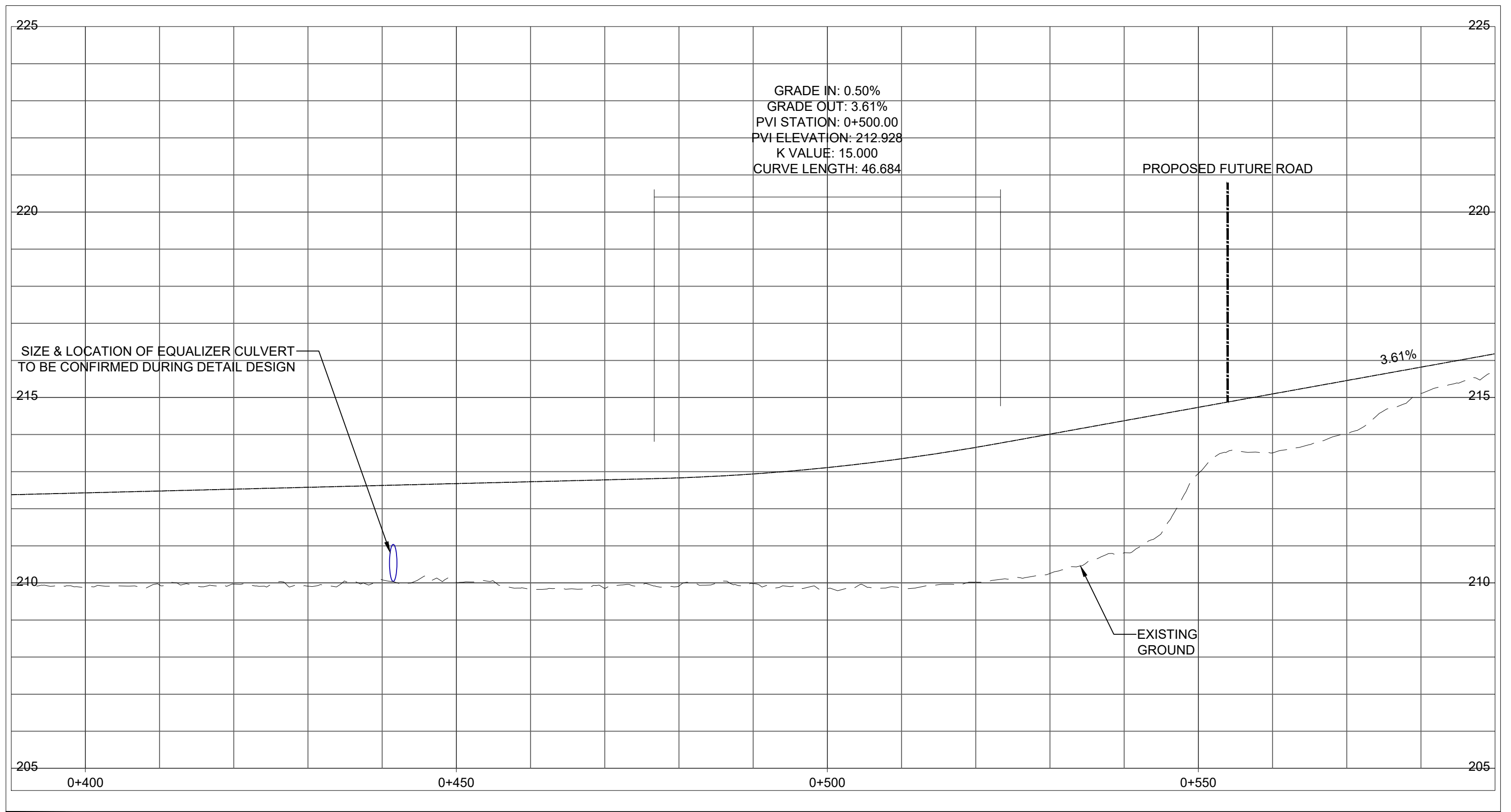
300-675 Cochrane Drive, West Tower
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Client/Project
 CITY OF VUAGHAN

Figure No.
 PROFILE - 2

Title
 ENVIRONMENTAL ASSESSMENT

Scale
 1:500



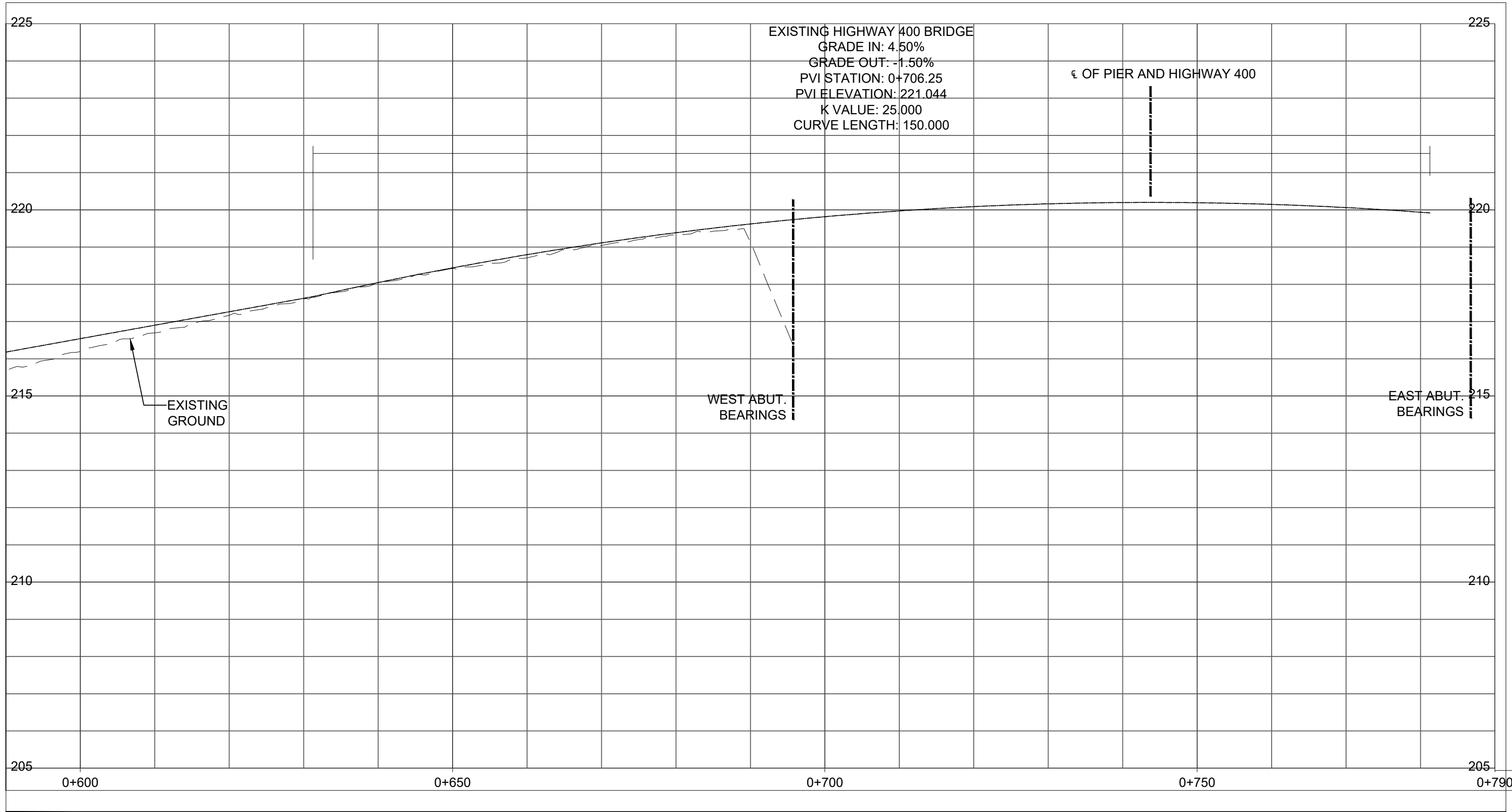
300-675 Cochrane Drive, West Tower
 Markham ON
 www.stantec.com

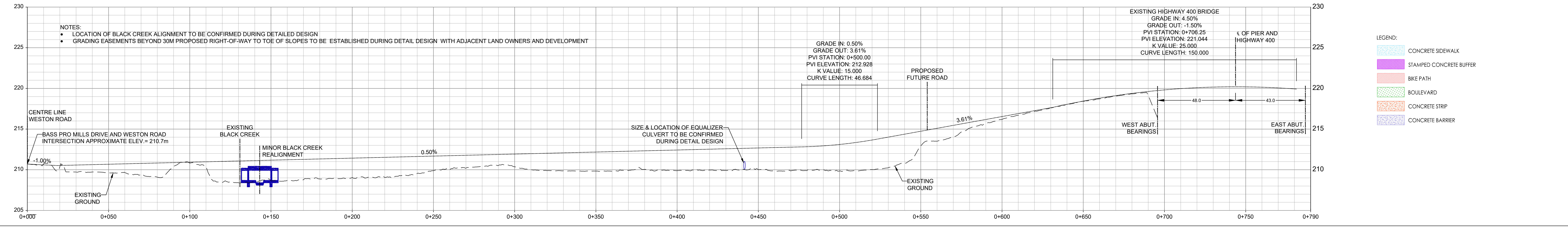
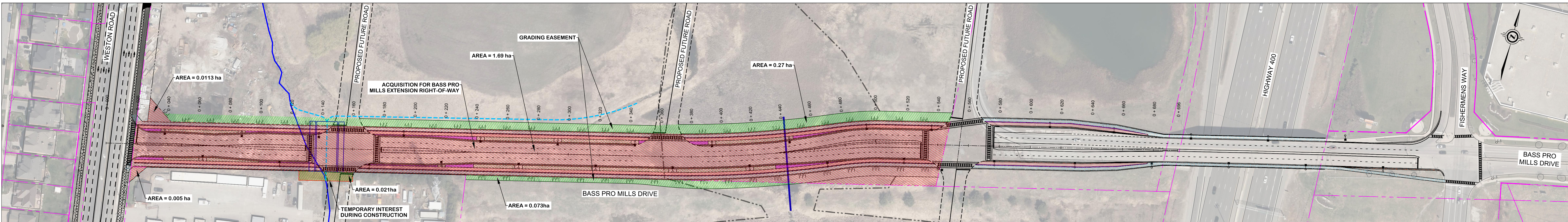
Client/Project
 CITY OF VUAGHAN

Figure No.
 PROFILE - 3

Title
 ENVIRONMENTAL ASSESSMENT

Scale
 1:500





PRELIMINARY CAPITAL COST ESTIMATES
BASS PRO MILLS DRIVE EXTENSION MCEA - Weston Road to east of Highway 400 (Fishermans Way)
May 12, 2022

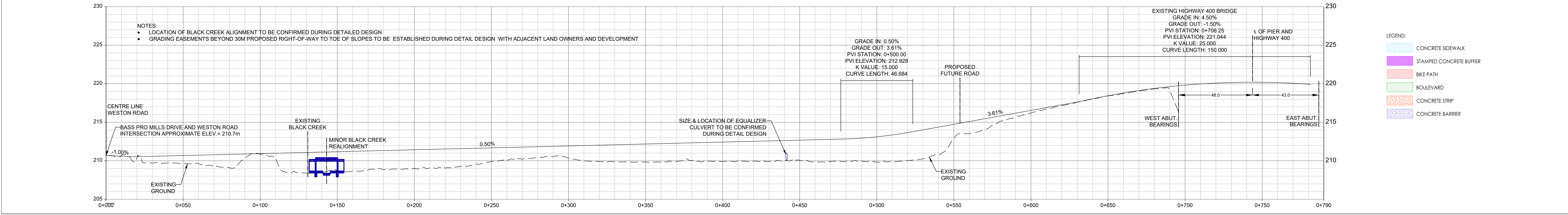
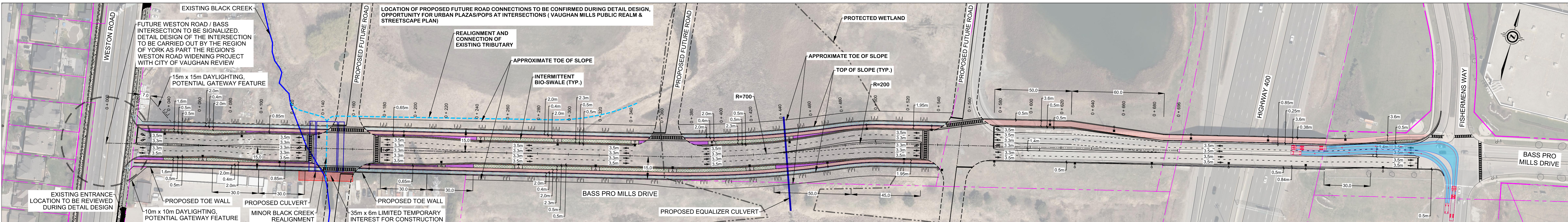
				Alignment A								Alignment B								
				Option 1		Option 2		Option 3		Option 4		Option 1		Option 2		Option 3		Option 4		
Component/Category	Item Description	Units	Unit Price	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total	
Utility Relocation	Utility Relocations	LS	\$250,000	1	\$250,000	1	\$250,000	1	\$250,000	1	\$250,000	1	\$250,000	1	\$250,000	1	\$250,000	1	\$250,000	
	Sub-Total				\$250,000		\$250,000		\$250,000	0	\$250,000		\$250,000		\$250,000	0	\$250,000	0	\$250,000	
Roadworks (excluding grading)	Storm Sewers (450-600 dia)	m	\$550	780	\$429,000	780	\$429,000	780	\$429,000	780	\$429,000	845	\$464,750	845	\$464,750	845	\$464,750	845	\$464,750	
	Subdrains	m	\$35	1,560	\$54,600	1,560	\$54,600	1,560	\$54,600	1,560	\$54,600	1,690	\$59,150	1,690	\$59,150	1,690	\$59,150	1,690	\$59,150	
	Retaining Walls (1.2m high)	m2	\$450	280	\$126,000	280	\$126,000	280	\$126,000	280	\$126,000									
	Catch-basin	each	\$3,500	26	\$91,000	26	\$91,000	13	\$45,500	26	\$91,000	30	\$105,000	30	\$105,000	30	\$105,000	30	\$105,000	
	Storm Manholes	each	\$20,000	5	\$100,000	5	\$100,000	5	\$100,000	5	\$100,000	6	\$120,000	6	\$120,000	6	\$120,000	6	\$120,000	
	Oil/Grit Separators	each	\$80,000	2	\$160,000	2	\$160,000	2	\$160,000	2	\$160,000	2	\$160,000	2	\$160,000	2	\$160,000	2	\$160,000	
	150mm Granular 'A' (Roadway)	cu.m.	\$65	1,600	\$104,000	1,600	\$104,000	1,600	\$104,000	1,600	\$104,000	1,725	\$112,125	1,725	\$112,125	1,725	\$112,125	1,725	\$112,125	
	450mm Granular 'B' (Roadway)	cu.m.	\$50	4,800	\$240,000	4,800	\$240,000	4,800	\$240,000	4,800	\$240,000	5,180	\$259,000	5,180	\$259,000	5,180	\$259,000	5,180	\$259,000	
	Asphalt Base (90mm)	tonne	\$100	2,500	\$250,000	2,500	\$250,000	2,500	\$250,000	2,500	\$250,000	2,700	\$270,000	2,700	\$270,000	2,700	\$270,000	2,700	\$270,000	
	Asphalt Top (40mm)	tonne	\$115	1,100	\$126,500	1,100	\$126,500	1,100	\$126,500	1,100	\$126,500	1,200	\$138,000	1,200	\$138,000	1,200	\$138,000	1,200	\$138,000	
	Curb and Gutter	m	\$75	1,560	\$117,000	1,560	\$117,000	1,560	\$117,000	1,560	\$117,000	1,690	\$126,750	1,690	\$126,750	1,690	\$126,750	1,690	\$126,750	
	Traffic Medians	m2	\$150	220	\$33,000	220	\$33,000	220	\$33,000	220	\$33,000	220	\$33,000	220	\$33,000	220	\$33,000	220	\$33,000	
	Raised Cycling Buffer	m2	\$150								1,400	\$210,000							1,520	\$228,000
	150mm Granular 'A' (Cycling Lane)	cu.m.	\$65								470	\$30,550							510	\$33,150
	450mm Granular 'B' (Cycling Lane)	cu.m.	\$50								1,400	\$70,000							1,520	\$76,000
Asphalt Base (90mm - Cycling Lane)	tonne	\$100								730	\$73,000							790	\$79,000	
Asphalt Top (40mm - Cycling Lane)	tonne	\$115								325	\$37,375							350	\$40,250	
	Sub Total				\$1,831,100		\$1,831,100		\$1,785,600		\$2,252,025		\$1,847,775		\$1,847,775		\$1,847,775		\$2,304,175	
Intersections Tie Ins	Weston Road 'T' Intersection	LS	\$150,000	1	\$150,000	1	\$150,000	1	\$150,000	1	\$150,000									
	Westcreek Drive Extension	LS	\$100,000	1	\$100,000	1	\$100,000	1	\$100,000	1	\$100,000	1	\$100,000	1	\$100,000	1	\$100,000	1	\$100,000	
	Creditview Road Extension	LS	\$100,000	1	\$100,000	1	\$100,000	1	\$100,000	1	\$100,000	1	\$100,000	1	\$100,000	1	\$100,000	1	\$100,000	
	Fishermans Way	LS	\$125,000	1	\$125,000	1	\$125,000	1	\$125,000	1	\$125,000	1	\$125,000	1	\$125,000	1	\$125,000	1	\$125,000	
	Highway 400 Ramp	LS	\$300,000	1	\$300,000	1	\$300,000	1	\$300,000	1	\$300,000	1	\$300,000	1	\$300,000	1	\$300,000	1	\$300,000	
	Astona Boulevard	LS	\$250,000									1	\$250,000	1	\$250,000	1	\$250,000	1	\$250,000	
	Sub Total				\$775,000		\$775,000		\$775,000		\$775,000		\$875,000		\$875,000		\$875,000		\$875,000	
Streetlighting	Both Sides	each	\$6,500	35	\$227,500	35	\$227,500	35	\$227,500	35	\$227,500	40	\$260,000	40	\$260,000	40	\$260,000	40	\$260,000	
	Sub Total				\$227,500		\$227,500		\$227,500		\$227,500		\$260,000		\$260,000		\$260,000		\$260,000	
Traffic Signals	Weston Road 'T' Intersection	each	\$200,000	1	\$200,000	1	\$200,000	1	\$200,000	1	\$200,000									
	Westcreek Drive Extension	each	\$200,000	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	
	Creditview Road Extension	each	\$200,000	1	\$200,000	1	\$200,000	1	\$200,000	1	\$200,000	1	\$200,000	1	\$200,000	1	\$200,000	1	\$200,000	
	Fishermans Way (Temporary)	each	\$175,000	1	\$175,000	1	\$175,000	1	\$175,000	1	\$175,000	1	\$175,000	1	\$175,000	1	\$175,000	1	\$175,000	
	Fishermans Way (Permanent)	each	\$200,000	1	\$200,000	1	\$200,000	1	\$200,000	1	\$200,000	1	\$200,000	1	\$200,000	1	\$200,000	1	\$200,000	
	Astona Boulevard (Temporary)	each	\$175,000									1	\$175,000	1	\$175,000	1	\$175,000	1	\$175,000	
	Astona Boulevard (Permanent)	each	\$200,000									1	\$200,000	1	\$200,000	1	\$200,000	1	\$200,000	
	Sub Total				\$775,000		\$775,000		\$775,000		\$775,000		\$950,000		\$950,000		\$950,000		\$950,000	
Black Creek Culvert(s) & Highway 400 Bridge	Black Creek Crossing (Interim)	LS	\$300,000	1	\$300,000	1	\$300,000	1	\$300,000	1	\$300,000	1	\$300,000	1	\$300,000	1	\$300,000	1	\$300,000	
	Black Creek Crossing (Ultimate)	LS	\$1,000,000	1	\$1,000,000	1	\$1,000,000	1	\$1,000,000	1	\$1,000,000	1	\$1,000,000	1	\$1,000,000	1	\$1,000,000	1	\$1,000,000	
	Highway 400 Bridge Deck Modifications	LS	\$2,000,000	1	\$2,000,000	1	\$2,000,000	1	\$2,000,000	1	\$2,000,000	1	\$2,000,000	1	\$2,000,000	1	\$2,000,000	1	\$2,000,000	
	Sub Total				\$3,300,000		\$3,300,000		\$3,300,000		\$3,300,000		\$3,300,000		\$3,300,000		\$3,300,000		\$3,300,000	
Boulevard Landscaping/ Sidewalks/Cycling	Concrete Sidewalk	m2	\$75	2,900	\$217,500	2,900	\$217,500	2,900	\$217,500	2,900	\$217,500	3,380	\$253,500	3,380	\$253,500	3,380	\$253,500	3,380	\$253,500	
	Concrete Boulevard Strip	m2	\$90	780	\$70,200	780	\$70,200	780	\$70,200	450	\$40,500	845	\$76,050	845	\$76,050	845	\$76,050	845	\$76,050	
	Edge Zone	m	\$55							260	\$14,300							300	\$16,500	
	Asphalt Cycling Lane	m2	\$40	3,120	\$124,800	3,120	\$124,800	3,120	\$124,800	3,120	\$124,800	3,380	\$135,200	3,380	\$135,200	3,380	\$135,200	3,380	\$135,200	
	Tree planting	each	\$500	120	\$60,000	120	\$60,000	120	\$60,000	60	\$30,000	130	\$65,000	130	\$65,000	130	\$65,000	65	\$32,500	
	Top Soil & Sod	m2	\$8	4,000	\$32,000	3,200	\$25,600	200	\$1,600	3,200	\$25,600	4,500	\$36,000	3,500	\$28,000	250	\$2,000	3,500	\$28,000	
	Retention Swale Feature	m	\$500							1,560	\$780,000							1,690	\$845,000	
	Sidewalk/Cycling Buffer	m2	\$130	300	\$39,000	1,700	\$221,000	290	\$37,700			350	\$45,500	1,850	\$240,500	400	\$52,000			
		Sub Total				\$543,500		\$719,100		\$1,291,800		\$717,900		\$611,250		\$798,250		\$1,428,750		\$829,050
Property	Basic Right-of-Way	m2	\$750	16,500	\$12,375,000	17,050	\$12,787,500	16,500	\$12,375,000	16,500	\$12,375,000	18,150	\$13,612,500	18,755	\$14,066,250	18,150	\$13,612,500	18,150	\$13,612,500	
	Sub Total				\$12,375,000		\$12,787,500		\$12,375,000		\$12,375,000		\$13,612,500		\$14,066,250		\$13,612,500		\$13,612,500	
Contingency allocation for mobilization, ESC measures, removals (Creditview Ext to Fishermans Way), SBGR, pavement markings and signage and misc. adjustment				Total	\$20,077,100	\$20,665,200	\$20,779,900	\$20,672,425	\$21,706,525	\$22,347,275	\$22,524,025	\$22,380,725								
				25% Contingency	\$5,019,275	\$5,166,300	\$5,194,975	\$5,168,106	\$5,426,631	\$5,586,819	\$5,631,006	\$5,595,181								
				Total Estimate	\$25,096,375	\$25,831,500	\$25,974,875	\$25,840,531	\$27,133,156	\$27,934,094	\$28,155,031	\$27,975,906								

**BASS PRO MILLS DRIVE, FROM HIGHWAY 400 TO WESTON ROAD MUNICIPAL CLASS
ENVIRONMENTAL ASSESSMENT**

Appendix L Preliminary Design

Appendix L.1 Modified Preliminary Design



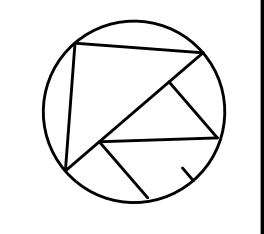


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 REVISED BY:

MINISTRY OF TRANSPORTATION, ONTARIO
 PR-0-707
 BR-25

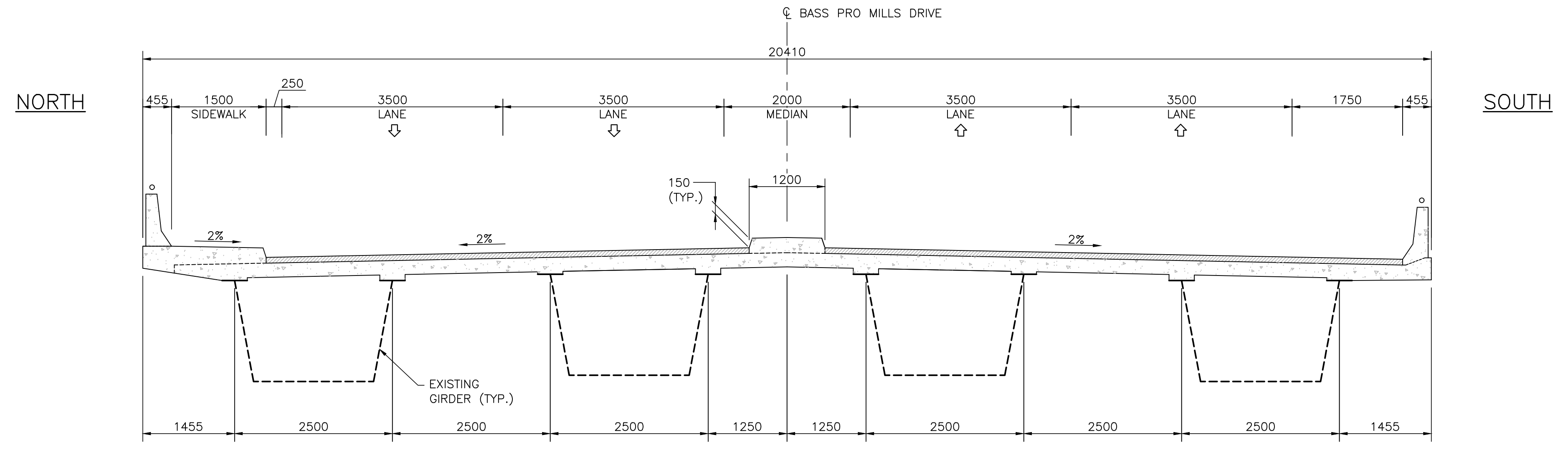
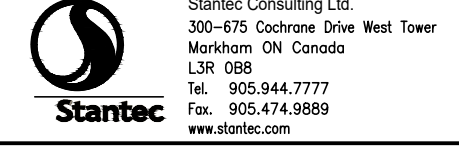
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 DIMENSIONS ARE IN METRES
 AND/OR MILLIMETRES UNLESS
 OTHERWISE SHOWN

DIST. No.
 CONT No xxx-xx-xx
 WP No WP_NUM

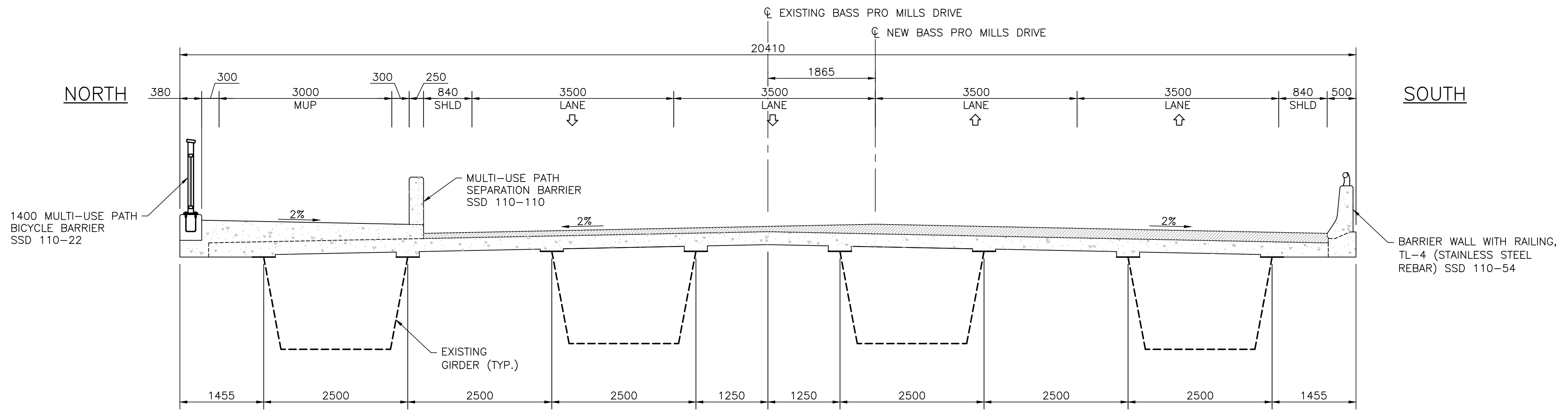


CITY OF VAUGHAN
 HIGHWAY 400
 BASS PRO MILLS DRIVE
 DECK CROSS SECTION

SHEET



EXISTING DECK SECTION
 SCALE: 1 : 50



PROPOSED SECTION
 SCALE: 1 : 50

DRAWING NOT TO BE SCALED
 100 mm ON ORIGINAL DRAWING

REVISIONS		DATE	BY	DESCRIPTION

DESIGN	CHK	CODE	LOAD	DATE
DESIGN K.L.	CHK	SITE	STRUCT	SCHEME
DRAWN A.K.L.	CHK			DWG