

Adverse Soils Conditions

Address(&lot):paakanaak, esban, ginebik, kijik, atop	
Subdivision, Phase, Builder: Pathways South Phase 2, 4840 Bank St, SRR-20-000006	
Geotechnical Memo (s) & Report (s): Golder Report 13-1121-0083 (1046) January 2017 Memo 20142688(2147)-Rev1August 9, 2021	
Notes: Maximum 2.5 m grade raise. Site class D, pools/hottubs typical construction, additions require geotech per main report	

September 20, 2021

Permit Approvals - requirements at permit application		
Site Class	A,B,C,D,E or F	A, B, C, D - Standard Procedure unless dictated by other factors
Bearing Capacity	Kpa	75 kPa or greater, part 9 fdtm - Standard Procedure unless dictated by other factors
	Part 4/9	Part 9 & 4 Foundation Requirements Geotechnical Engineer • Confirmation of part 9/4 foundation • Part 9 only - Lot specific bearing capacity values at the USF as a function of founding elevation, including footing restrictions • Part 4 only - Soil design bearing capacity, SLS and ULS at USF as a function of founding elevation, including footing restrictions • Footing sizes and the effects of long term groundwater lowering accounted for • Existing grade elevation, proposed finished grade elevation, maximum allowable grade raise, actual grade raise, proposed USF elevation • Calculated post construction settlements (include special requirements for foundation construction where calculated settlements are more than 25mm total and 20mm differential)
	Maximum Permissible Grade Raise Identified	Additional for part 4 N/A
Light Weight Fill Required		N/A

REVIEWED
By Terri Hunt at 3:27 pm, Sep 20, 2021



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September 20, 2021

Building Inspection - requirements at key inspection stages	
Site Class A,B,C,D,E or F	A, B, C, D - Standard Procedure unless dictated by other factors
Bearing Capacity Kpa	75 kPa or greater, part 9 fdtm - Standard Procedure unless dictated by other factors
Maximum Permissible Grade Raise Identified Part 4/9	Part 9 or 4 fdtm Excavation Inspection - Geotechnical Engineer Confirm bearing capacity at USF meets/exceeds minimum design requirements. Final Inspection - Geotechnical Engineer • Lot specific letter signed under professional seal confirming that the grade raise, is as recommended (reference all geotechnical reports) • Expected post construction settlement limits of 25 mm total and 20 mm differential will not be exceeded.
Additional for part 4	N/A
Light Weight Fill Required	N/A

REVIEWED
By Terri Hunt at 3:27 pm, Sep 20, 2021



TECHNICAL MEMORANDUM

DATE August 9, 2021

Project No.
20142688(2147)-
Rev.1

TO Erin O'Connor, MCIP, RPP
Pathways South Regional Inc.

FROM Ali Ghirian, P.Eng.; Bill Cavers, P.Eng.

EMAIL Ali_Ghirian@golder.com;
William_Cavers@golder.com

GRADE RAISE REVIEW PATHWAYS SOUTH – PHASE 2 4840 BANK STREET, OTTAWA, ONTARIO

This technical memorandum provides a detailed geotechnical review of the proposed site grading including a summary table for each individual lot/block, for Phase 2 of the Pathways South – Phase 2 development located at 4840 Bank Street in Ottawa, Ontario

The attached Summary of Design Details table, as well as the following sections provides our geotechnical recommendations pertaining to the grading of the site.

Subsurface Conditions

Golder Associates previously carried out a geotechnical investigation for the proposed development, including Pathways South - Phase 2, and the results of that investigation were provided in the following report:

- *Golder report titled "Geotechnical Investigation, Proposed Residential Development, Remer and Idone Lands, Ottawa, Ontario", dated January 2017 (report number 13-1121-0083 (1046)).*

Based on the results of the geotechnical investigation, in general, the subsurface conditions on this site consist of topsoil or peat (at the western portion of the site) overlying sands, silts, and followed by bouldery glacial till, which is in turn underlain by bedrock. Localized thin layers of silty clay were encountered below the peat or topsoil within the extreme southwest portion of the site.

The depth to the bedrock surface varies from about 2 m to greater than 7 m below the ground surface, generally increasing in depth from east to west.

Grading Plan Review

The street, block, lot or part numbering used in the attached Summary of Design Details tables was obtained from the following grading plans prepared by IBI Group for this site:

- Grading Plan, Project No. 105968, Drawing Nos. 201 (Rev. 17) and 202 (Rev. 15), dated May 2019

The existing and finished grades as well as the Underside of Footing (USF) elevations for the proposed development are provided on the grading plan drawings referenced above.

Based on recommendations provided in our geotechnical report, the maximum permissible grade is 2.5 m for the proposed development.

The finished grades were reviewed for each individual block/lot in comparison to the permissible grade raises and the proposed grading plan for the proposed Phase 2 development was found to be in accordance with the guidelines and recommendations provided in the geotechnical report prepared for this site and, as such, are considered acceptable from a geotechnical point of view.

Frost Protection

The soils at this site are considered to be highly frost susceptible. All exterior perimeter foundation elements or foundation elements in unheated areas should therefore be provided with a minimum of 1.5 m of earth cover for frost protection purposes. Isolated, unheated exterior footings adjacent to surfaces which are cleared of snow cover during winter months should be provided with a minimum of 1.8 m of earth cover.

Based on the review of the proposed finished grades and the USF elevation, there are several units that do not meet the minimum frost cover requirements. Equivalent insulation needs to be provided at the front or rear of those houses. The units with insufficient earth cover are highlighted (in red) on the attached Summary of Design Details table.

Closure

We trust that this memo provides sufficient information for your present requirements. If you have any questions concerning this memo, please do not hesitate to contact the undersigned.

Yours truly,

Golder Associates Ltd.



A. Ghirian

Ali Ghirian, P.Eng
Geotechnical Engineer

Bill Cavers

Bill Cavers, P.Eng.
Associate, Senior Geotechnical Engineer

REVIEWED

By Terri Hunt at 3:27 pm, Sep 20, 2021

AGWC/hdw

[https://goldeassociates.sharepoint.com/sites/126333/project files/6 deliverables/grading plan review tech memos/pathways phase 2 grade raise review \(new lots\) july 2021/rev.1/20142688\(2147\)-001-tm-rev1- pathways south - phase 2 - grading plan review - aug 9 2021.docx](https://goldeassociates.sharepoint.com/sites/126333/project%20files/6%20deliverables/grading%20plan%20review%20tech%20memos/pathways%20phase%20grade%20raise%20review%20(new%20lots)%20july%202021/rev%201/20142688(2147)-001-tm-rev1-pathways%20south-phase%20grading%20plan%20review-aug%209%202021.docx)

Attachments: Table 1 – Summary of Design Details

Grading Plan by IBI Group, Drawing Nos. 201 (Rev. 17) and 202 (Rev. 15), dated May 2019



SUMMARY OF DESIGN DETAILS

Grading Plan Summary for
Pathways South Phase 2JOB #: 20142688-1147
DATE: Aug 4, 2021**REVIEWED**

By Terri Hunt at 3:27 pm, Sep 20, 2021

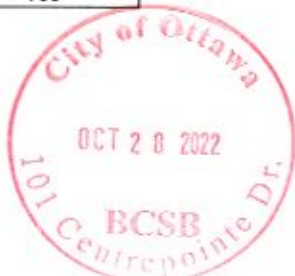
**GOLDER**
MEMBER OF WSP

Street #	Block	Unit #	Existing Grades					Rear USF (for Walkout Units)	USF	Proposed Finished Grades					Grade Raise Limit	Calculated Grade Raises				Exceeding Front Grade Raise Limit?	Exceeding Rear Grade Raise Limit?	USF From Lowest Proposed Front Grade	USF From Lowest Proposed Rear Grade	Front Frost Protection Sufficient (USF > 1.8 m Below Finished Grade)	Rear Frost Protection Sufficient (USF > 1.5 m Below Finished Grade)
			FL	FR	RL	RR	AVE			FL	FR	RL	RR	AVE		FL	FR	RL	RR						
508 Paakanaak Avenue		108	106.13	106.47	104.87	105.23	105.68	104.79	105.99	108.19	108.19	106.12	106.12	107.16	2.50	2.06	1.72	1.25	0.89	No	No	2.2	1.3	Yes	No
506 Paakanaak Avenue		109	106.47	106.73	105.23	105.60	106.01	105.10	106.30	108.50	108.50	106.36	106.36	107.43	2.50	2.03	1.77	1.13	0.76	No	No	2.2	1.3	Yes	No
504 Paakanaak Avenue		110	106.73	107.17	105.60	106.19	106.42	105.35	106.55	108.75	108.75	106.37	106.37	107.56	2.50	2.02	1.58	0.77	0.18	No	No	2.2	1.0	Yes	No
502 Paakanaak Avenue		111	107.17	107.82	106.19	106.89	107.02	105.60	106.80	109.00	109.00	106.62	106.62	107.81	2.50	1.83	1.18	0.43	-0.27	No	No	2.2	1.0	Yes	No
500 Paakanaak Avenue		112	107.82	108.38	106.97	107.28	107.61	105.66	106.86	109.06	109.06	106.92	106.92	107.99	2.50	1.24	0.68	-0.05	-0.36	No	No	2.2	1.3	Yes	No
501 Paakanaak Avenue		143	108.15	108.25	108.77	108.89	108.52		107.15	109.35	109.35	109.30	109.30	109.33	2.50	1.20	1.10	0.53	0.41	No	No	2.2	2.1	Yes	Yes
503 Paakanaak Avenue		144	108.25	107.48	108.77	108.99	108.37		107.10	109.30	109.30	109.15	109.15	109.23	2.50	1.05	1.82	0.38	0.16	No	No	2.2	2.1	Yes	Yes
505 Paakanaak Avenue		145	107.48	107.51	108.31	108.52	107.96		106.94	109.14	109.14	108.85	108.85	109.00	2.50	1.66	1.63	0.54	0.33	No	No	2.2	1.9	Yes	Yes
507 Paakanaak Avenue		146	107.51	107.18	108.33	108.33	107.84		106.80	109.00	109.00	108.55	108.55	108.78	2.50	1.49	1.82	0.22	0.22	No	No	2.2	1.8	Yes	Yes
509 Paakanaak Avenue		147	107.18	106.90	107.56	107.56	107.30		106.35	108.55	108.55	108.18	108.18	108.37	2.50	1.37	1.65	0.62	0.62	No	No	2.2	1.8	Yes	Yes
511 Paakanaak Avenue		148	106.90	106.54	107.56	107.56	107.14		106.00	108.20	108.20	107.75	107.75	107.98	2.50	1.30	1.66	0.19	0.19	No	No	2.2	1.8	Yes	Yes
513 Paakanaak Avenue		149	106.54	106.17	107.23	107.23	106.79		105.34	107.54	107.54	107.38	107.38	107.46	2.50	1.00	1.37	0.15	0.15	No	No	2.2	2.0	Yes	Yes
515 Paakanaak Avenue		150	106.17	105.98	106.50	106.50	106.29		105.00	107.20	107.20	107.10	107.10	107.15	2.50	1.03	1.22	0.60	0.60	No	No	2.2	2.1	Yes	Yes
517 Paakanaak Avenue		151	105.98	105.88	106.38	106.38	106.16		104.70	106.90	106.90	106.93	106.93	106.92	2.50	0.92	1.02	0.55	0.55	No	No	2.2	2.2	Yes	Yes
519 Paakanaak Avenue		152	105.88	105.60	106.50	106.50	106.12		104.50	106.70	106.70	106.75	106.75	106.73	2.50	0.82	1.10	0.25	0.25	No	No	2.2	2.3	Yes	Yes
521 Paakanaak Avenue		153	105.60	105.46	106.50	106.50	106.02		104.20	106.40	106.40	106.60	106.60	106.50	2.50	0.80	0.94	0.10	0.10	No	No	2.2	2.4	Yes	Yes
523 Paakanaak Avenue		154	105.46	105.34	106.22	106.22	105.81		104.03	106.23	106.23	106.30	106.30	106.27	2.50	0.77	0.89	0.08	0.08	No	No	2.2	2.3	Yes	Yes
525 Paakanaak Avenue		155	105.34	105.26	105.78	105.78	105.54		103.85	106.05	106.05	105.98	105.98	106.02	2.50	0.71	0.79	0.20	0.20	No	No	2.2	2.1	Yes	Yes
527 Paakanaak Avenue		156	105.26	105.07	105.15	105.15	105.16		103.70	105.90	105.90	105.65	105.65	105.78	2.50	0.64	0.83	0.50	0.50	No	No	2.2	2.0	Yes	Yes
529 Paakanaak Avenue		157	105.07	104.78	105.17	105.17	105.05		103.60	105.80	105.80	105.35	105.35	105.58	2.50	0.73	1.02	0.18	0.18	No	No	2.2	1.8	Yes	Yes
531 Paakanaak Avenue		158	104.78	104.40	104.74	104.74	104.67		103.55	105.75	105.75	105.16	105.16	105.46	2.50	0.97	1.35	0.42	0.42	No	No	2.2	1.6	Yes	Yes
533 Paakanaak Avenue		159	104.40	104.08	104.62	104.62	104.43		103.30	105.50	105.50	105.00	105.00	105.25	2.50	1.10	1.42	0.38	0.38	No	No	2.2	1.7	Yes	Yes
535 Paakanaak Avenue		160	104.08	103.67	104.14	104.14	104.01		103.00	105.20	105.20	104.85	104.85	105.03	2.50	1.12	1.53	0.71	0.71	No	No	2.2	1.8	Yes	Yes
537 Paakanaak Avenue		161	103.67	103.41	104.14	104.14	103.84		102.45	104.65	104.65	104.60	104.60	104.63	2.50	0.98	1.24	0.46	0.46	No	No	2.2	2.1	Yes	Yes
539 Paakanaak Avenue		162	103.41	103.33	104.15	104.15	103.76		102.20	104.40	104.40	104.40	104.40	104.40	2.50	0.99	1.07	0.25	0.25	No	No	2.2	2.2	Yes	Yes
541 Paakanaak Avenue		163	103.33	103.10	103.96	103.96	103.59		101.95	104.15	104.15	104.10	104.10	104.13	2.50	0.82	1.05	0.14	0.14	No	No	2.2	2.1	Yes	Yes
543 Paakanaak Avenue		164	103.10	102.85	102.86	102.86	102.92		101.70	103.90	103.90	103.85	103.85	103.88	2.50	0.80	1.05	0.99	0.99	No	No	2.2	2.1	Yes	Yes
545 Paakanaak Avenue		165	102.85	102.62	102.47	102.47	102.60		101.60	103.80	103.80	103.44	103.44	103.62	2.50	0.95	1.18	0.97	0.97	No	No	2.2	1.8	Yes	Yes
549 Paakanaak Avenue		166	102.56	101.80	102.17	102.17	102.18		101.05	103.25	103.25	102.60	102.60	102.93	2.50	0.69	1.45	0.43	0.43	No	No	2.2	1.6	Yes	Yes
551 Paakanaak Avenue		167	101.80	101.33	102.06	102.06	101.81		100.85	103.05	103.05	102.37	102.37	102.71	2.50	1.25	1.72	0.31	0.31	No	No	2.2	1.5	Yes	Yes
553 Paakanaak Avenue		168	101.33	101.61	102.21	102.21	101.84		100.59	102.79	102.79	102.40	102.40	102.60	2.50	1.46	1.18	0.19	0.19	No	No	2.2	1.8	Yes	Yes
555 Paakanaak Avenue		169	101.61	101.20	102.21	102.21	101.81		100.50	102.70	102.70	102.40	102.40	102.55	2.50	1.09	1.50	0.19	0.19	No	No	2.2	1.9	Yes	Yes
557 Paakanaak Avenue		170	101.20	101.14	101.57	102.01	101.48		100.40	102.60	102.60	102.35	102.35	102.48	2.50	1.40	1.46	0.78	0.34	No	No	2.2	1.9	Yes	Yes
559 Paakanaak Avenue		171	101.14	101.38	102.01	102.02	101.64		100.40	102.60	102.60	102.30	102.30	102.45	2.50	1.46	1.22	0.29	0.28	No	No	2.2	1.9	Yes	Yes
561 Paakanaak Avenue		172	101.38	101.45	102.02	102.04	101.72		100.45	102.65	102.65	102.30	102.30	102.48	2.50	1.27	1.20	0.28	0.26	No	No	2.2	1.8	Yes	Yes
563 Paakanaak Avenue																									

SUMMARY OF DESIGN DETAILS

Grading Plan Summary for
Pathways South Phase 2JOB #: 20142688-1147
DATE: Aug 4, 2021**REVIEWED**
By Terri Hunt at 3:27 pm, Sep 20, 2021

Street #	Block	Unit #	Existing Grades					Rear USF (for Walkout Units)	USF	Proposed Finished Grades					Grade Raise Limit	Calculated Grade Raises				Exceeding Front Grade Raise Limit?	Exceeding Rear Grade Raise Limit?	USF From Lowest Proposed Front Grade	USF From Lowest Proposed Rear Grade	Front Frost Protection Sufficient (USF > 1.8 m Below Finished Grade)	Rear Frost Protection Sufficient (USF > 1.5 m Below Finished Grade)
			FL	FR	RL	RR	AVE			FL	FR	RL	RR	AVE		FL	FR	RL	RR						
591 Paakanaak Avenue		187	99.12	98.91	100.22	100.22	99.62		98.04	100.24	100.24	100.25	100.25	100.25	2.50	1.12	1.33	0.03	0.03	No	No	2.2	2.2	Yes	Yes
593 Paakanaak Avenue		188	98.91	98.83	100.22	99.03	99.25		97.80	100.00	100.00	99.85	99.85	99.93	2.50	1.09	1.17	-0.37	0.82	No	No	2.2	2.1	Yes	Yes
595 Paakanaak Avenue		5	98.83	98.32	99.03	99.12	98.83		97.65	99.85	99.85	99.60	99.60	99.73	2.50	1.02	1.53	0.57	0.48	No	No	2.2	1.9	Yes	Yes
597 Paakanaak Avenue		4	98.32	98.05	99.12	98.98	98.62		97.35	99.55	99.55	99.45	99.45	99.50	2.50	1.23	1.50	0.33	0.47	No	No	2.2	2.1	Yes	Yes
599 Paakanaak Avenue		3	98.05	97.77	98.98	99.08	98.47		97.25	99.45	99.45	99.25	99.25	99.35	2.50	1.40	1.68	0.27	0.17	No	No	2.2	2.0	Yes	Yes
601 Paakanaak Avenue		2	97.77	97.56	99.08	98.91	98.33		96.13	99.35	99.35	99.00	99.00	99.18	2.50	1.58	1.79	-0.08	0.09	No	No	3.2	2.9	Yes	Yes
603 Paakanaak Avenue		1	97.56	97.30	98.91	98.30	98.02		97.10	99.30	99.30	98.85	98.85	99.08	2.50	1.74	2.00	-0.06	0.55	No	No	2.2	1.8	Yes	Yes
Paakanaak Avenue		56	97.30	97.28	98.30	97.87	97.69		97.00	99.20	99.20	98.80	98.80	99.00	2.50	1.90	1.92	0.50	0.93	No	No	2.2	1.8	Yes	Yes
Paakanaak Avenue		55	97.28	97.43	97.87	97.50	97.52		96.95	99.15	99.15	98.95	98.95	99.05	2.50	1.87	1.72	1.08	1.45	No	No	2.2	2.0	Yes	Yes
Paakanaak Avenue		10	97.00	97.46	96.93	96.70	97.02		96.65	98.85	98.85	98.30	98.30	98.58	2.50	1.85	1.39	1.37	1.60	No	No	2.2	1.6	Yes	Yes
578 Paakanaak Avenue		11	97.46	96.88	96.70	96.86	96.98		96.90	99.10	99.10	98.60	98.60	98.85	2.50	1.64	2.22	1.90	1.74	No	No	2.2	1.7	Yes	Yes
574 Paakanaak Avenue		12	97.02	97.13	97.00	97.06	97.05		96.90	99.10	99.10	98.75	98.75	98.93	2.50	2.08	1.97	1.75	1.69	No	No	2.2	1.8	Yes	Yes
572 Paakanaak Avenue		13	97.13	97.51	97.06	97.19	97.22		96.95	99.15	99.15	98.75	98.75	98.95	2.50	2.02	1.64	1.69	1.56	No	No	2.2	1.8	Yes	Yes
570 Paakanaak Avenue		14	97.51	97.60	97.19	97.34	97.41		97.10	99.30	99.30	98.90	98.90	99.10	2.50	1.79	1.70	1.71	1.56	No	No	2.2	1.8	Yes	Yes
568 Paakanaak Avenue		15	97.60	97.90	97.34	97.84	97.67		97.20	99.40	99.40	99.00	99.00	99.20	2.50	1.80	1.50	1.66	1.16	No	No	2.2	1.8	Yes	Yes
566 Paakanaak Avenue		16	97.90	98.30	97.84	97.85	97.97		97.30	99.50	99.50	98.75	98.75	99.13	2.50	1.60	1.20	0.91	0.90	No	No	2.2	1.5	Yes	Yes
564 Paakanaak Avenue		17	98.30	98.47	97.85	97.85	98.12		97.55	99.75	99.75	99.05	99.05	99.40	2.50	1.45	1.28	1.20	1.20	No	No	2.2	1.5	Yes	Yes
562 Paakanaak Avenue		18	98.47	98.66	97.85	98.83	98.45		97.90	100.10	100.10	99.40	99.40	99.75	2.50	1.63	1.44	1.55	0.57	No	No	2.2	1.5	Yes	Yes
560 Paakanaak Avenue		19	98.66	98.98	98.83	98.84	98.83		98.25	100.45	100.45	99.75	99.75	100.10	2.50	1.79	1.47	0.92	0.91	No	No	2.2	1.5	Yes	Yes
558 Paakanaak Avenue		20	98.98	99.06	98.84	98.91	98.95		98.50	100.70	100.70	100.10	100.10	100.40	2.50	1.72	1.64	1.26	1.19	No	No	2.2	1.6	Yes	Yes
556 Paakanaak Avenue		21	99.06	99.11	98.91	99.01	99.02		98.70	100.90	100.90	100.45	100.45	100.68	2.50	1.84	1.79	1.54	1.44	No	No	2.2	1.8	Yes	Yes
554 Paakanaak Avenue		22	99.11	99.30	99.01	99.26	99.17		99.00	101.20	101.20	100.95	100.95	101.08	2.50	2.09	1.90	1.94	1.69	No	No	2.2	2.0	Yes	Yes
552 Paakanaak Avenue		23	99.30	99.72	99.26	99.51	99.45		99.35	101.55	101.55	101.35	101.35	101.45	2.50	2.25	1.83	2.09	1.84	No	No	2.2	2.0	Yes	Yes
550 Paakanaak Avenue		24	99.72	100.04	99.51	99.51	99.70		99.55	101.75	101.75	101.80	101.80	101.78	2.50	2.03	1.71	2.29	2.29	No	No	2.2	2.3	Yes	Yes
61 Esban Drive	189	1	100.80	100.80	100.98	100.98	100.89		100.07	102.07	102.07	102.49	102.49	102.28	2.50	1.27	1.27	1.51	1.51	No	No	2.0	2.4	Yes	Yes
63 Esban Drive	189	2	100.80	100.80	100.98	100.98	100.89		100.07	102.07	102.07	102.49	102.49	102.28	2.50	1.27	1.27	1.51	1.51	No	No	2.0	2.4	Yes	Yes
65 Esban Drive	189	3	100.80	100.80	100.98	100.98	100.89		100.07	102.07	102.07	102.25	102.25	102.16	2.50	1.27	1.27	1.27	1.27	No	No	2.0	2.2	Yes	Yes
67 Esban Drive	189	4	100.55	100.55	100.49	100.49	100.52		100.07	102.07	102.07	102.25	102.25	102.16	2.50	1.52	1.52	1.76	1.76	No	No	2.0	2.2	Yes	Yes
69 Esban Drive	189	5	100.55	100.55	100.49	100.49	100.52		100.07	102.07	102.07	101.85	101.85	101.96	2.50	1.52	1.52	1.36	1.36	No	No	2.0	1.8	Yes	Yes
71 Esban Drive	189	6	100.55	100.55	100.49	100.49	100.52		99.60	101.60	101.60	101.65	101.65	101.63	2.50	1.05	1.05	1.16	1.16	No	No	2.0	2.1	Yes	Yes
73 Esban Drive	189	7	100.55	100.55	100.49	100.49	100.52		99.60	101.60	101.60	101.50	101.50	101.55	2.50	1.05	1.05	1.01	1.01	No	No	2.0	1.9	Yes	Yes
75 Esban Drive	189	8	100.02	100.02	100.05	100.05	100.04		99.60	101.60	101.60	101.50	101.50	101.55	2.50	1.58	1.58	1.45	1.45	No	No	2.0	1.9	Yes	Yes
77 Esban Drive	189	9	100.02	100.02	100.05	100.05	100.04		99.60	101.60	101.60	101.40	101.40	101.50	2.50	1.58	1.58	1.35	1.35	No	No	2.0	1.8	Yes	Yes
76 Esban Drive	190	10	100.31	100.31	100.60	100.60	100.46		99.60	101.60	101.60	101.10	101.10	101.35	2.50	1.29	1.29	0.50	0.50	No	No	2.0	1.5	Yes	Yes
74 Esban Drive	190	11	100.31	100.31	100.60	100.60	100.46		99.60	101.60	101.60	101.10	101.10	101.35	2.50	1.29	1.29	0.50	0.50	No	No	2.0	1.5	Yes	Yes
72 Esban Drive	190	12	100.31	100.31	100.60	100.60	100.46		99.60	101.60	101.60	101.35	101.35	101.48	2.50	1.29	1.29	0.75	0.75	No	No	2.0	1.8	Yes	Yes
70 Esban Drive	190	13	100.31	100.31	100.60	100.60	100.46		99.60	101.60	101.60	101.60	101.60	101.60	2.50	1.29	1.29	1.00	1.00	No	No	2.0	2.0	Yes	Yes
68 Esban Drive	190	14	100.83	100.83	101.35	101.35	101.09		100.10	102.10	102.10	101.80	101.80	101.95	2.50	1.27	1.27	0.45	0.45	No	No	2.0	1.7	Yes	Yes
66 Esban Drive	190	15	100.83	100.83	101.35	101.35	101.09		100.10	102.10	102.10	101.80	101.80	101.95	2.50	1.27	1.27	0.45	0.45	No	No	2.0	1.7	Yes	Yes
64 Esban Drive	190	16	100.83	100.83	101.35	101.35	101.09		100.10	102.10	102.10	102.20	102.20	102.15	2.50	1.27	1.27	0.85	0.85	No	No	2.0	2.1	Yes	Yes
62 Esban Drive	190	17	100.83	100.83	101.35	101.35	101.09		100.10	102.10	102.10	102.20	102.20	102.15	2.50	1.27	1.27	0.85	0.85	No	No	2.0	2.1	Yes	Yes
60 Esban Drive	190	18	100.83	100.84	101.35	101.38	101.10		100.10	102.10	102.10	102.50	102.50	102.30	2.50	1.27	1.26	1.15	1.12	No	No	2.0	2.4	Yes	Yes
79 Esban Drive		77	100.02	99.77	100.05	99.53	99.84		99.05	101.25	101.25	101.20	101.20	101.23	2.50	1.23	1.48	1.15	1.67	No	No	2.2	2.2	Yes	Yes
81 Esban Drive		78	99.77	99.45	99.53	99.16	99.48		98.82	101.02	101.02	100.90	100.90	100.96	2.50	1.25	1.57	1.37	1.74	No	No	2.2	2.1	Yes	Yes
83 Esban Drive		79	99.45	99.35	99.16	98.89	99.21		98.40	100.60	100.60	100.60	100.60	100.60	2.50	1.15	1.25	1.44	1.71	No	No	2.2	2.2	Yes	Yes
85 Esban Drive		80	99.35	98.98	98.89	98.54	98.94		98.18	100.38	100.38	100.25	100.25	100.32	2.50	1.03	1.40	1.36	1.71	No	No	2.2	2.1	Yes	Yes
87 Esban Drive		81	98.98	98.45	98.54	98.54	98.63		97.73	99.93	99.93	99.90	99.90	99.92	2.50	0.95	1.48	1.36	1.36	No	No	2.2	2.2	Yes	Yes
89 Esban Drive		82	98.45	98.10	98.54	98.35	98.36		97.50	99.70	99.70	99.50	99.50	99.60	2.50	1.25	1.60	0.96	1.15	No	No	2.2	2.0	Yes	Yes



SUMMARY OF DESIGN DETAILS

Grading Plan Summary for
Pathways South Phase 2

JOB #: 20142688-1147
DATE: Aug 4, 2021

REVIEWED
By Terri Hunt at 3:27 pm, Sep 20, 2021



Street #	Block	Unit #	Existing Grades					Rear USF (for Walkout Units)	USF	Proposed Finished Grades					Grade Raise Limit	Calculated Grade Raises				Exceeding Front Grade Raise Limit?	Exceeding Rear Grade Raise Limit?	USF From Lowest Proposed Front Grade	USF From Lowest Proposed Rear Grade	Front Frost Protection Sufficient (USF > 1.8 m Below Finished Grade)	Rear Frost Protection Sufficient (USF > 1.5 m Below Finished Grade)
			FL	FR	RL	RR	AVE			FL	FR	RL	RR	AVE		FL	FR	RL	RR						
91 Esban Drive		83	98.10	97.90	98.35	98.41	98.19		97.25	99.45	99.45	99.12	99.12	99.29	2.50	1.35	1.55	0.77	0.71	No	No	2.2	1.9	Yes	Yes
90 Esban Drive		84	97.95	98.21	98.32	98.32	98.20		97.20	99.40	99.40	98.70	98.70	99.05	2.50	1.45	1.19	0.38	0.38	No	No	2.2	1.5	Yes	Yes
88 Esban Drive		85	98.21	98.45	98.32	98.32	98.33		97.60	99.80	99.80	99.10	99.10	99.45	2.50	1.59	1.35	0.78	0.78	No	No	2.2	1.5	Yes	Yes
86 Esban Drive		86	98.45	98.86	98.67	98.67	98.66		97.80	100.00	100.00	99.50	99.50	99.75	2.50	1.55	1.14	0.83	0.83	No	No	2.2	1.7	Yes	Yes
84 Esban Drive		87	98.86	99.22	99.18	99.18	99.11		98.20	100.40	100.40	99.85	99.85	100.13	2.50	1.54	1.18	0.67	0.67	No	No	2.2	1.6	Yes	Yes
82 Esban Drive		88	99.22	99.56	100.04	100.04	99.72		98.49	100.69	100.69	100.20	100.20	100.45	2.50	1.47	1.13	0.16	0.16	No	No	2.2	1.7	Yes	Yes
80 Esban Drive		89	99.56	99.96	100.04	100.21	99.94		98.90	101.10	101.10	100.50	100.50	100.80	2.50	1.54	1.14	0.46	0.29	No	No	2.2	1.6	Yes	Yes
78 Esban Drive		90	99.96	100.31	100.21	100.60	100.27		99.10	101.30	101.30	100.80	100.80	101.05	2.50	1.34	0.99	0.59	0.20	No	No	2.2	1.7	Yes	Yes
205 Ginebik Way		25	100.33	100.27	98.91	98.74	99.56	98.40	99.60	101.80	101.80	99.45	99.45	100.63	2.50	1.47	1.53	0.54	0.71	No	No	2.2	1.1	Yes	No
207 Ginebik Way		26	100.27	100.05	98.74	98.96	99.51	98.35	99.55	101.75	101.75	99.40	99.40	100.58	2.50	1.48	1.70	0.66	0.44	No	No	2.2	1.1	Yes	No
209 Ginebik Way		27	100.05	99.78	98.96	98.84	99.41	98.20	99.40	101.60	101.60	99.22	99.22	100.41	2.50	1.55	1.82	0.26	0.38	No	No	2.2	1.0	Yes	No
211 Ginebik Way		28	99.78	99.78	98.84	98.84	99.31	97.95	99.15	101.35	101.35	99.21	99.21	100.28	2.50	1.57	1.57	0.37	0.37	No	No	2.2	1.3	Yes	No
225 Ginebik Way		29	99.91	99.69	99.19	99.19	99.50		98.06	100.26	100.26	99.63	99.63	99.95	2.50	0.35	0.57	0.44	0.44	No	No	2.2	1.6	Yes	Yes
227 Ginebik Way		30	99.69	99.80	99.19	97.80	99.12		97.75	99.95	99.95	99.20	99.20	99.58	2.50	0.26	0.15	0.01	1.40	No	No	2.2	1.5	Yes	Yes
241 Ginebik Way		31	97.80	97.75	98.84	98.96	98.34		96.37	98.47	98.47	98.80	98.80	98.64	2.50	0.67	0.72	-0.04	-0.16	No	No	2.1	2.4	Yes	Yes
243 Ginebik Way		32	97.75	97.62	98.96	98.91	98.31		96.32	98.52	98.52	98.77	98.77	98.65	2.50	0.77	0.90	-0.19	-0.14	No	No	2.2	2.5	Yes	Yes
245 Ginebik Way		33	97.62	97.52	98.84	97.89	97.97		96.29	98.30	98.30	98.73	98.73	98.52	2.50	0.68	0.78	-0.11	0.84	No	No	2.0	2.4	Yes	Yes
247 Ginebik Way		34	97.52	97.32	97.89	97.61	97.59		96.29	98.30	98.30	98.70	98.70	98.50	2.50	0.78	0.98	0.81	1.09	No	No	2.0	2.4	Yes	Yes
249 Ginebik Way		35	97.32	97.11	97.61	97.16	97.30		96.26	98.30	98.30	98.66	98.66	98.48	2.50	0.98	1.19	1.05	1.50	No	No	2.0	2.4	Yes	Yes
251 Ginebik Way		36	97.11	96.99	97.16	97.06	97.08		96.34	98.35	98.35	98.66	98.66	98.51	2.50	1.24	1.36	1.50	1.60	No	No	2.0	2.3	Yes	Yes
253 Ginebik Way		37	96.99	96.95	97.06	97.00	97.00		96.21	98.41	98.41	98.65	98.65	98.53	2.50	1.42	1.46	1.59	1.65	No	No	2.2	2.4	Yes	Yes
257 Ginebik Way		38	96.94	96.57	96.86	96.73	96.78		96.20	98.40	98.40	98.45	98.45	98.43	2.50	1.46	1.83	1.59	1.72	No	No	2.2	2.3	Yes	Yes
259 Ginebik Way		39	96.57	96.53	96.73	96.73	96.64		96.10	98.30	98.30	98.18	98.18	98.24	2.50	1.73	1.77	1.45	1.45	No	No	2.2	2.1	Yes	Yes
261 Ginebik Way		40	96.53	96.49	96.73	96.69	96.61		96.05	98.25	98.25	98.25	98.25	98.25	2.50	1.72	1.76	1.52	1.56	No	No	2.2	2.2	Yes	Yes
Ginebik Way		41	96.49	96.45	96.69	96.72	96.59		96.05	98.25	98.25	98.20	98.20	98.23	2.50	1.76	1.80	1.51	1.48	No	No	2.2	2.2	Yes	Yes
Ginebik Way		42	96.45	96.43	96.72	96.91	96.63		95.95	98.15	98.15	97.45	97.45	97.80	2.50	1.70	1.72	0.73	0.54	No	No	2.2	1.5	Yes	Yes
Ginebik Way		43	96.43	96.28	96.47	96.20	96.35		95.95	98.15	98.15	97.45	97.45	97.80	2.50	1.72	1.87	0.98	1.25	No	No	2.2	1.5	Yes	Yes
Ginebik Way		44	96.28	96.51	96.20	96.11	96.28		96.10	98.30	98.30	97.15	97.15	97.73	2.50	2.02	1.79	0.95	1.04	No	No	2.2	1.1	Yes	No
260 Ginebik Way		52	96.45	96.58	96.60	96.70	96.58		96.10	98.30	98.30	98.25	98.25	98.28	2.50	1.85	1.72	1.65	1.55	No	No	2.2	2.2	Yes	Yes
258 Ginebik Way		53	96.58	96.71	96.70	96.77	96.69		96.15	98.35	98.35	98.31	98.31	98.33	2.50	1.77	1.64	1.61	1.54	No	No	2.2	2.2	Yes	Yes
256 Ginebik Way		54	96.71	96.89	96.77	96.99	96.84		96.25	98.45	98.45	98.31	98.31	98.38	2.50	1.74	1.56	1.54	1.32	No	No	2.2	2.1	Yes	Yes
254 Ginebik Way		55	96.89	97.08	96.99	97.22	97.05		96.20	98.40	98.40	98.34	98.34	98.37	2.50	1.51	1.32	1.35	1.12	No	No	2.2	2.1	Yes	Yes
252 Ginebik Way		56	97.08	97.16	97.22	97.47	97.23		96.15	98.35	98.35	98.40	98.40	98.38	2.50	1.27	1.19	1.18	0.93	No	No	2.2	2.3	Yes	Yes
238 Ginebik Way		57	97.47	97.82	96.84	97.08	97.30		96.60	98.80	98.80	98.35	98.35	98.58	2.50	1.33	0.98	1.51	1.27	No	No	2.2	1.8	Yes	Yes
236 Ginebik Way		58	97.82	97.97	97.08	96.97	97.46		96.93	99.13	99.13	98.55	98.55	98.84	2.50	1.31	1.16	1.47	1.58	No	No	2.2	1.6	Yes	Yes
234 Ginebik Way		59	97.97	98.23	96.97	97.64	97.70		97.25	99.45	99.45	98.75	98.75	99.10	2.50	1.48	1.22	1.78	1.11	No	No	2.2	1.5	Yes	Yes
232 Ginebik Way		60	98.23	98.74	97.64	98.17	98.20		97.40	99.60	99.60	98.90	98.90	99.25	2.50	1.37	0.86	1.26	0.73	No	No	2.2	1.5	Yes	Yes
230 Ginebik Way		61	98.74	99.05	98.17	99.02	98.75		97.65	99.85	99.85	99.10	99.10	99.48	2.50	1.11	0.80	0.93	0.08	No	No	2.2	1.4	Yes	No
228 Ginebik Way		62	99.05	99.61	99.02	99.50	99.30		97.95	100.15	100.15	98.90	98.90	99.53	2.50	1.10	0.54	-0.12	-0.60	No	No	2.2	1.0	Yes	No
226 Ginebik Way		63	99.61	99.87	99.50	98.70	99.42		98.30	100.50	100.50	98.80	98.80	99.65	2.50	0.89	0.63	-0.70	0.10	No	No	2.2	0.5	Yes	No
224 Ginebik Way		64	99.87	99.55	98.70	98.46	99.15		98.35	100.55	100.55	98.95	98.95	99.75	2.50	0.68	1.00	0.25	0.49	No	No	2.2	0.6	Yes	No
222 Ginebik Way		65	99.55	99.65	98.46	98.54	99.05		98.50	100.70	100.70	100.00	100.00	100.35	2.50	1.15	1.05	1.54	1.46	No	No	2.2	1.5	Yes	Yes
220 Ginebik Way		66	99.65	99.78	98.54	98.89	99.22		98.70	100.90	100.90	100.40	100.40	100.65	2.50	1.25	1.12	1.86	1.51	No	No	2.2	1.7	Yes	Yes
218 Ginebik Way		67	99.78	99.88	98.89	99.16	99.43		98.85	101.05	101.05	100.70	100.70	100.88	2.50	1.27	1.17	1.81	1.54	No	No	2.2	1.9	Yes	Yes
216 Ginebik Way		68	99.88	99.94	99.16	99.40	99.60		99.05	101.25	101.25	101.00	101.00	101.13	2.50	1.37	1.31	1.84	1.60	No	No	2.2	2.0	Yes	Yes
214 Ginebik Way		69	99.94	100.02	99.40	99.70	99.77		99.20	101.40	101.40	101.25	101.25	101.33	2.50	1.46	1.38	1.85	1.55	No	No	2.2	2.1	Yes	Yes
212 Ginebik Way		70	100.02	100.12	99.70	100.60	100.11		99.40	101.60	101.60	101.30	101.30	101.45	2.50	1.58	1.48	1.60	0.70	No	No	2.2	1.9	Yes	Yes



SUMMARY OF DESIGN DETAILS

Grading Plan Summary for
Pathways South Phase 2

JOB #: 20142688-1147
DATE: Aug 4, 2021

REVIEWED
By Terri Hunt at 3:27 pm, Sep 20, 2021



Street #	Block	Unit #	Existing Grades					Rear USF (for Walkout Units)	USF	Proposed Finished Grades					Grade Raise Limit	Calculated Grade Raises				Exceeding Front Grade Raise Limit?	Exceeding Rear Grade Raise Limit?	USF From Lowest Proposed Front Grade	USF From Lowest Proposed Rear Grade	Front Frost Protection Sufficient (USF > 1.8 m Below Finished Grade)	Rear Frost Protection Sufficient (USF > 1.5 m Below Finished Grade)
			FL	FR	RL	RR	AVE			FL	FR	RL	RR	AVE		FL	FR	RL	RR						
210 Ginebik Way		71	100.12	100.29	100.60	100.45	100.37		99.55	101.75	101.75	101.30	101.30	101.53	2.50	1.63	1.46	0.70	0.85	No	No	2.2	1.8	Yes	Yes
208 Ginebik Way		72	100.29	100.49	100.45	100.49	100.43		99.65	101.85	101.85	101.50	101.50	101.68	2.50	1.56	1.36	1.05	1.01	No	No	2.2	1.8	Yes	Yes
206 Ginebik Way		73	100.49	100.66	100.49	100.58	100.56		99.70	101.90	101.90	101.70	101.70	101.80	2.50	1.41	1.24	1.21	1.12	No	No	2.2	2.0	Yes	Yes
204 Ginebik Way		74	100.66	100.88	100.58	100.74	100.72		99.75	101.95	101.95	101.90	101.90	101.93	2.50	1.29	1.07	1.32	1.16	No	No	2.2	2.2	Yes	Yes
202 Ginebik Way		75	100.88	100.98	100.74	101.00	100.90		99.85	102.05	102.05	102.10	102.10	102.08	2.50	1.17	1.07	1.36	1.10	No	No	2.2	2.3	Yes	Yes
200 Ginebik Way		76	100.98	100.98	101.00	100.98	100.99		100.09	102.10	102.10	102.38	102.38	102.24	2.50	1.12	1.12	1.38	1.40	No	No	2.0	2.3	Yes	Yes
1082 Kijik Crescent	191	19	102.26	102.26	101.38	101.38	101.82		101.19	103.19	103.19	102.70	102.70	102.95	2.50	0.93	0.93	1.32	1.32	No	No	2.0	1.5	Yes	Yes
1080 Kijik Crescent	191	20	102.26	102.26	101.38	101.38	101.82		101.19	103.19	103.19	102.70	102.70	102.95	2.50	0.93	0.93	1.32	1.32	No	No	2.0	1.5	Yes	Yes
1078 Kijik Crescent	191	21	102.26	102.26	101.38	101.38	101.82		101.19	103.00	103.00	102.60	102.60	102.80	2.50	0.74	0.74	1.22	1.22	No	No	1.8	1.4	Yes	No
1076 Kijik Crescent	191	22	102.26	102.26	101.38	101.38	101.82		101.19	103.00	103.00	102.60	102.60	102.80	2.50	0.74	0.74	1.22	1.22	No	No	1.8	1.4	Yes	No
1074 Kijik Crescent	191	23	102.26	101.56	101.38	101.16	101.59		101.19	103.00	103.00	102.40	102.40	102.70	2.50	0.74	1.44	1.02	1.24	No	No	1.8	1.2	Yes	No
1072 Kijik Crescent	191	24	101.56	101.56	101.16	101.16	101.36		100.36	102.36	102.36	102.02	102.02	102.19	2.50	0.80	0.80	0.86	0.86	No	No	2.0	1.7	Yes	Yes
1070 Kijik Crescent	191	25	101.56	101.56	101.16	101.16	101.36		100.36	102.36	102.36	102.02	102.02	102.19	2.50	0.80	0.80	0.86	0.86	No	No	2.0	1.7	Yes	Yes
1068 Kijik Crescent	191	26	101.56	101.56	101.16	101.16	101.36		100.36	102.36	102.36	101.74	101.74	102.05	2.50	0.80	0.80	0.58	0.58	No	No	2.0	1.4	Yes	No
1066 Kijik Crescent	191	27	101.56	101.56	101.16	101.16	101.36		100.36	102.36	102.36	101.74	101.74	102.05	2.50	0.80	0.80	0.58	0.58	No	No	2.0	1.4	Yes	No
1064 Kijik Crescent	191	28	101.56	100.71	101.16	100.60	101.01		100.36	102.36	102.36	101.74	101.74	102.05	2.50	0.80	1.65	0.58	1.14	No	No	2.0	1.4	Yes	No
1055 Kijik Crescent	192-Part 1	29	99.36	99.36	100.58	100.58	99.97		99.12	101.12	101.12	101.37	101.37	101.25	2.50	1.76	1.76	0.79	0.79	No	No	2.0	2.3	Yes	Yes
1057 Kijik Crescent	192-Part 1	30	99.36	99.36	100.58	100.58	99.97		99.12	101.12	101.12	101.50	101.50	101.31	2.50	1.76	1.76	0.92	0.92	No	No	2.0	2.4	Yes	Yes
1059 Kijik Crescent	192-Part 1	31	99.36	99.36	100.58	100.58	99.97		99.50	101.50	101.50	101.50	101.50	101.50	2.50	2.14	2.14	0.92	0.92	No	No	2.0	2.0	Yes	Yes
1061 Kijik Crescent	192-Part 1	32	99.36	100.33	100.58	100.89	100.29		99.50	101.50	101.50	101.65	101.65	101.58	2.50	2.14	1.17	1.07	0.76	No	No	2.0	2.2	Yes	Yes
1063 Kijik Crescent	192	33	100.33	100.33	100.89	100.89	100.61		100.40	102.40	102.40	101.90	101.90	102.15	2.50	2.07	2.07	1.01	1.01	No	No	2.0	1.5	Yes	Yes
1065 Kijik Crescent	192	34	100.33	100.33	100.89	100.89	100.61		100.40	102.40	102.40	101.90	101.90	102.15	2.50	2.07	2.07	1.01	1.01	No	No	2.0	1.5	Yes	Yes
1067 Kijik Crescent	192	35	100.33	100.33	100.89	100.89	100.61		100.40	102.40	102.40	102.15	102.15	102.28	2.50	2.07	2.07	1.26	1.26	No	No	2.0	1.8	Yes	Yes
1069 Kijik Crescent	192	36	100.33	101.09	100.89	101.05	100.84		100.40	102.40	102.40	102.53	102.53	102.47	2.50	2.07	1.31	1.64	1.48	No	No	2.0	2.1	Yes	Yes
1071 Kijik Crescent	192	37	101.09	101.09	101.05	101.05	101.07		101.25	103.06	103.06	102.90	102.90	102.98	2.50	1.97	1.97	1.85	1.85	No	No	1.8	1.7	Yes	Yes
1073 Kijik Crescent	192	38	101.09	101.09	101.05	101.05	101.07		101.25	103.06	103.06	103.20	103.20	103.13	2.50	1.97	1.97	2.15	2.15	No	No	1.8	2.0	Yes	Yes
1075 Kijik Crescent	192	39	101.09	101.09	101.05	101.05	101.07		101.25	103.06	103.06	103.20	103.20	103.13	2.50	1.97	1.97	2.15	2.15	No	No	1.8	2.0	Yes	Yes
1077 Kijik Crescent	192	40	101.09	101.09	101.05	101.05	101.07		101.25	103.25	103.25	103.30	103.30	103.28	2.50	2.16	2.16	2.25	2.25	No	No	2.0	2.1	Yes	Yes
1079 Kijik Crescent	192	41	101.09	102.23	101.46	102.89	101.92		101.25	103.25	103.30	103.69	103.69	103.48	2.50	2.16	1.07	2.23	0.80	No	No	2.0	2.4	Yes	Yes
1062 Kijik Crescent		91	100.71	100.30	100.60	100.27	100.47		99.60	101.80	101.80	101.10	101.10	101.45	2.50	1.09	1.50	0.50	0.83	No	No	2.2	1.5	Yes	Yes
1060 Kijik Crescent		92	100.30	99.89	100.27	100.07	100.13		99.29	101.49	101.49	100.80	100.80	101.15	2.50	1.19	1.60	0.53	0.73	No	No	2.2	1.5	Yes	Yes
1058 Kijik Crescent		93	99.89	99.48	100.07	99.69	99.78		98.86	101.06	101.06	100.55	100.55	100.81	2.50	1.17	1.58	0.48	0.86	No	No	2.2	1.7	Yes	Yes
1056 Kijik Crescent		94	99.48	99.17	99.69	99.03	99.34		98.60	100.80	100.80	100.25	100.25	100.53	2.50	1.32	1.63	0.56	1.22	No	No	2.2	1.7	Yes	Yes
1054 Kijik Crescent		95	99.17	98.83	99.03	97.79	98.71		98.40	100.60	100.60	99.50	99.50	100.05	2.50	1.43	1.77	0.47	1.71	No	No	2.2	1.1	Yes	No
1052 Kijik Crescent		96	98.83	98.91	97.79	98.35	98.47		98.25	100.45	100.45	98.95	98.95	99.70	2.50	1.62	1.54	1.16	0.60	No	No	2.2	0.7	Yes	No
1034 Kijik Crescent		105	102.24	102.67	102.82	102.09	102.46		101.75	103.95	103.95	102.50	102.50	103.23	2.50	1.71	1.28	-0.32	0.41	No	No	2.2	0.8	Yes	No
1032 Kijik Crescent		106	102.67	103.16	102.09	103.63	102.89		102.00	104.20	104.20	104.00	104.00	104.10	2.50	1.53	1.04	1.91	0.37	No	No	2.2	2.0	Yes	Yes
1030 Kijik Crescent		107	103.16	103.55	103.63	104.38	103.68		102.17	104.37	104.37	104.10	104.10	104.24	2.50	1.21	0.82	0.47	-0.28	No	No	2.2	1.9	Yes	Yes
1028 Kijik Crescent	196	81	103.55	103.55	104.38	104.38	103.97		102.78	104.78	104.78	104.65	104.65	104.72	2.50	1.23	1.23	0.27	0.27	No	No	2.0	1.9	Yes	Yes
1026 Kijik Crescent	196	82	103.55	103.55	104.38	104.38	103.97		102.78	104.78	104.78	104.65	104.65	104.72	2.50	1.23	1.23	0.27	0.27	No	No	2.0	1.9	Yes	Yes
1024 Kijik Crescent	196	83	103.55	103.55	104.55	104.55	104.05		102.78	104.78	104.78	104.85	104.85	104.82	2.50	1.23	1.23	0.30	0.30	No	No	2.0	2.1	Yes	Yes
1022 Kijik Crescent	196	84	103.55	104.02	104.55	104.76	104.22		102.78	104.78	104.78	105.05	105.05	104.92	2.50	1.23	0.76	0.50	0.29	No	No	2.0	2.3	Yes	Yes
1020 Kijik Crescent	196	85	104.02	104.02	104.76	104.76	104.39		103.61	105.61	105.61	105.25	105.25	105.43	2.50	1.59	1.59	0.49	0.49	No	No	2.0	1.6	Yes	Yes
1018 Kijik Crescent	196	86	104.02	104.02	104.76	105.13	104.48		103.61	105.61	105.61	105.50	105.50	105.56	2.50	1.59	1.59	0.74	0.37	No	No	2.0	1.9	Yes	Yes
1016 Kijik Crescent	196	87	104.02	104.02	105.13	105.13	104.58		103.61	105.61	105.61	105.50	105.50	105.56	2.50	1.59	1.59	0.37	0.37	No	No	2.0	1.9	Yes	Yes
1014 Kijik Crescent	196	88	104.02	104.02	105.13	105.49	104.67		103.61	105.61	105.61	105.70	105.70	105.66	2.50	1.59	1.59	0.57	0.21	No	No	2.0	2.1	Yes	Yes
1012 Kijik Crescent	196	89	104.02	104.02	105.49	105.49	104.76		103.61	105.61	105.61	105.90	105.90	105.76	2.50	1.59	1.59	0.41	0.41	No	No	2.0	2.3	Yes	Yes



SUMMARY OF DESIGN DETAILS

Grading Plan Summary for
Pathways South Phase 2

JOB #: 20142688-1147
DATE: Aug 4, 2021

REVIEWED

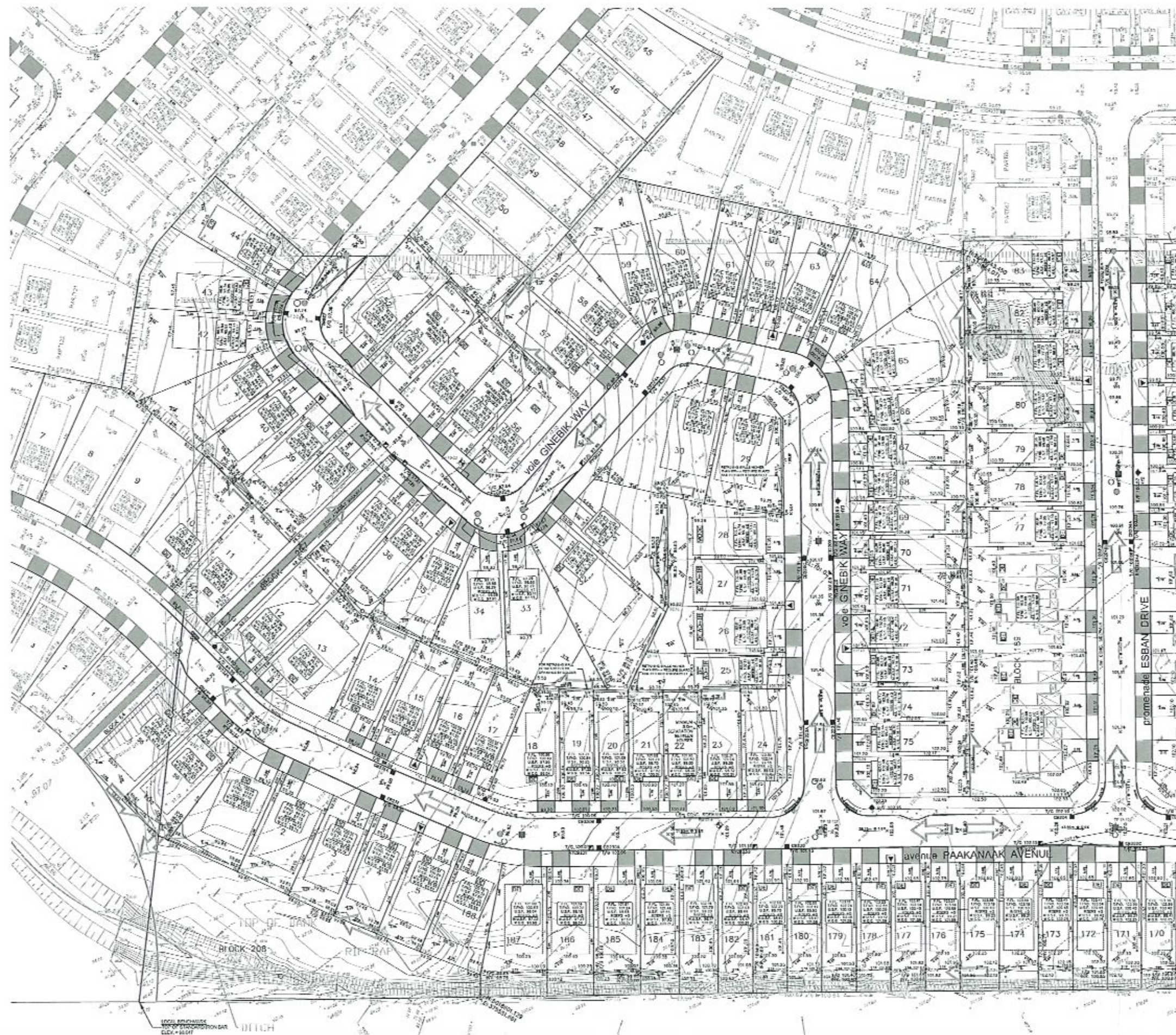
By Terri Hunt at 3:27 pm, Sep 20, 2021



GOLDER
MEMBER OF WSP

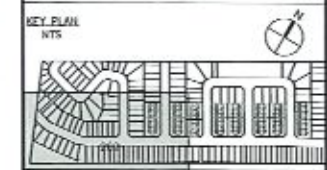
Street #	Block	Unit #	Existing Grades					Rear USF (for Walkout Units)	USF	Proposed Finished Grades					Grade Raise Limit	Calculated Grade Raises				Exceeding Front Grade Raise Limit?	Exceeding Rear Grade Raise Limit?	USF From Lowest Proposed Front Grade	USF From Lowest Proposed Rear Grade	Front Frost Protection Sufficient (USF > 1.8 m Below Finished Grade)	Rear Frost Protection Sufficient (USF > 1.5 m Below Finished Grade)
			FL	FR	RL	RR	AVE			FL	FR	RL	RR	AVE		FL	FR	RL	RR						
1010 Kijik Crescent	196	90	104.75	105.00	105.75	105.75	105.31		103.61	105.61	105.61	106.00	106.00	105.81	2.50	0.86	0.61	0.25	0.25	No	No	2.0	2.4	Yes	Yes
1001 Kijik Crescent	195	68	105.28	105.28	104.94	104.72	105.06		104.57	106.57	106.57	105.80	105.80	106.19	2.50	1.29	1.29	0.86	1.08	No	No	2.0	1.2	Yes	No
1003 Kijik Crescent	195	69	105.28	105.28	104.94	104.72	105.06		104.57	106.57	106.57	105.80	105.80	106.19	2.50	1.29	1.29	0.86	1.08	No	No	2.0	1.2	Yes	No
1005 Kijik Crescent	195	70	105.28	105.28	104.94	104.49	105.00		104.57	106.19	106.19	105.35	105.35	105.77	2.50	0.91	0.91	0.41	0.86	No	No	1.6	0.8	No	No
1007 Kijik Crescent	195	71	104.62	104.62	104.49	104.25	104.50		104.57	106.19	106.19	105.15	105.15	105.67	2.50	1.57	1.57	0.66	0.90	No	No	1.6	0.6	No	No
1009 Kijik Crescent	195	72	105.28	104.41	104.94	103.88	104.63		104.57	106.19	106.19	104.95	104.95	105.57	2.50	0.91	1.78	0.01	1.07	No	No	1.6	0.4	No	No
1011 Kijik Crescent	195	73	104.41	104.41	103.88	103.88	104.15		103.65	105.65	105.65	104.60	104.60	105.13	2.50	1.24	1.24	0.72	0.72	No	No	2.0	0.9	Yes	No
1013 Kijik Crescent	195	74	104.41	104.41	103.88	103.88	104.15		103.65	105.65	105.65	104.25	104.25	104.95	2.50	1.24	1.24	0.37	0.37	No	No	2.0	0.6	Yes	No
1015 Kijik Crescent	195	75	104.41	104.41	103.88	103.88	104.15		103.65	105.65	105.65	104.25	104.25	104.95	2.50	1.24	1.24	0.37	0.37	No	No	2.0	0.6	Yes	No
1017 Kijik Crescent	195	76	104.41	103.85	103.88	103.88	104.01		103.65	105.65	105.65	103.95	103.95	104.80	2.50	1.24	1.80	0.07	0.07	No	No	2.0	0.3	Yes	No
1019 Kijik Crescent	195	77	103.85	103.85	103.01	103.01	103.43		102.85	104.85	104.85	103.70	103.70	104.28	2.50	1.00	1.00	0.69	0.69	No	No	2.0	0.9	Yes	No
1021 Kijik Crescent	195	78	103.85	103.85	103.01	103.01	103.43		102.85	104.85	104.85	103.60	103.60	104.23	2.50	1.00	1.00	0.59	0.59	No	No	2.0	0.8	Yes	No
1023 Kijik Crescent	195	79	103.85	103.85	103.01	103.01	103.43		102.47	104.47	104.47	103.50	103.50	103.99	2.50	0.62	0.62	0.49	0.49	No	No	2.0	1.0	Yes	No
1025 Kijik Crescent	195	80	103.85	102.93	103.01	103.01	103.20		102.47	104.47	104.47	103.45	103.45	103.96	2.50	0.62	1.54	0.44	0.44	No	No	2.0	1.0	Yes	No
34 Atop Lane	193	42	103.78	103.78	102.89	102.89	103.34		103.10	105.10	105.10	103.80	103.80	104.45	2.50	1.32	1.32	0.91	0.91	No	No	2.0	0.7	Yes	No
32 Atop Lane	193	43	103.78	103.78	102.89	102.89	103.34		103.10	105.10	105.10	103.65	103.65	104.38	2.50	1.32	1.32	0.76	0.76	No	No	2.0	0.6	Yes	No
30 Atop Lane	193	44	103.78	103.78	102.89	102.89	103.34		103.10	104.72	104.72	103.40	103.40	104.06	2.50	0.94	0.94	0.51	0.51	No	No	1.6	0.3	No	No
28 Atop Lane	193	45	103.78	103.78	102.89	102.89	103.34		103.10	104.72	104.72	103.40	103.40	104.06	2.50	0.94	0.94	0.51	0.51	No	No	1.6	0.3	No	No
26 Atop Lane	193	46	103.78	102.78	102.89	101.05	102.63		103.10	104.72	104.72	103.40	103.40	104.06	2.50	0.94	1.94	0.51	2.35	No	No	1.6	0.3	No	No
24 Atop Lane	193	47	102.78	102.78	101.05	101.05	101.92		102.08	104.08	104.08	102.80	102.80	103.44	2.50	1.30	1.30	1.75	1.75	No	No	2.0	0.7	Yes	No
22 Atop Lane	193	48	102.78	102.78	101.05	101.05	101.92		102.08	104.08	104.08	102.45	102.45	103.27	2.50	1.30	1.30	1.40	1.40	No	No	2.0	0.4	Yes	No
20 Atop Lane	193	49	102.78	102.78	101.05	101.05	101.92		102.08	104.08	104.08	102.45	102.45	103.27	2.50	1.30	1.30	1.40	1.40	No	No	2.0	0.4	Yes	No
18 Atop Lane	193	50	102.78	101.83	101.05	100.89	101.64		102.08	104.08	104.08	102.38	102.38	103.23	2.50	1.30	2.25	1.33	1.49	No	No	2.0	0.3	Yes	No
16 Atop Lane	193-Part 2	51	101.05	101.05	100.89	100.89	100.97		101.20	103.20	103.20	101.90	101.90	102.55	2.50	2.15	2.15	1.01	1.01	No	No	2.0	0.7	Yes	No
14 Atop Lane	193-Part 2	52	101.05	101.05	100.89	100.89	100.97		101.20	103.20	103.20	101.65	101.65	102.43	2.50	2.15	2.15	0.76	0.76	No	No	2.0	0.5	Yes	No
12 Atop Lane	193-Part 2	53	101.05	101.05	100.89	100.89	100.97		100.82	102.82	102.82	101.65	101.65	102.24	2.50	1.77	1.77	0.76	0.76	No	No	2.0	0.8	Yes	No
10 Atop Lane	193-Part 2	54	101.05	101.80	100.89	100.58	101.08		100.82	102.82	102.70	101.50	101.50	102.13	2.50	1.77	0.90	0.61	0.92	No	No	1.9	0.7	Yes	No
11 Atop Lane	194-Part 3	55	101.93	101.93	102.01	102.01	101.97		100.82	102.82	102.82	103.22	103.22	103.02	2.50	0.89	0.89	1.21	1.21	No	No	2.0	2.4	Yes	Yes
13 Atop Lane	194-Part 3	56	101.93	101.93	102.01	102.01	101.97		100.82	102.82	102.82	103.39	103.39	103.11	2.50	0.89	0.89	1.38	1.38	No	No	2.0	2.6	Yes	Yes
15 Atop Lane	194-Part 3	57	101.93	101.93	102.01	102.01	101.97		101.20	103.20	103.20	103.39	103.39	103.30	2.50	1.27	1.27	1.38	1.38	No	No	2.0	2.2	Yes	Yes
17 Atop Lane	194-Part 3	58	101.93	102.45	102.01	102.01	102.10		101.20	103.20	103.20	103.50	103.50	103.35	2.50	1.27	0.75	1.49	1.49	No	No	2.0	2.3	Yes	Yes
19 Atop Lane	194	59	102.45	102.45	102.01	103.01	102.48		102.10	104.10	104.10	103.67	103.67	103.89	2.50	1.65	1.65	1.66	0.66	No	No	2.0	1.6	Yes	Yes
21 Atop Lane	194	60	102.45	102.45	103.01	103.01	102.73		102.10	104.10	104.10	103.67	103.67	103.89	2.50	1.65	1.65	0.66	0.66	No	No	2.0	1.6	Yes	Yes
23 Atop Lane	194	61	102.45	102.45	103.01	103.35	102.82		102.10	104.10	104.10	104.08	104.08	104.09	2.50	1.65	1.65	1.07	0.73	No	No	2.0	2.0	Yes	Yes
25 Atop Lane	194	62	102.45	103.53	103.35	103.88	103.30		102.10	104.10	104.10	104.45	104.45	104.28	2.50	1.65	0.57	1.10	0.57	No	No	2.0	2.4	Yes	Yes
27 Atop Lane	194	63	103.53	103.53	103.88	103.88	103.71		103.20	104.83	104.83	104.70	104.85	104.80	2.50	1.30	1.30	0.82	0.97	No	No	1.6	1.5	No	Yes
29 Atop Lane	194	64	103.53	103.53	103.88	103.88	103.71		103.20	104.83	104.83	104.85	105.10	104.90	2.50	1.30	1.30	0.97	1.22	No	No	1.6	1.6	No	Yes
31 Atop Lane	194	65	103.53	103.53	103.88	103.88	103.71		103.20	104.83	104.83	105.10	105.10	104.97	2.50	1.30	1.30	1.22	1.22	No	No	1.6	1.9	No	Yes
33 Atop Lane	194	66	103.53	103.53	103.88	103.88	103.71		103.20	105.20	105.20	105.24	105.24	105.22	2.50	1.67	1.67	1.36	1.36	No	No	2.0	2.0	Yes	Yes
35 Atop Lane	194	67	103.53	104.41	103.88	104.94	104.19		103.20	105.20	105.30	105.50	105.50	105.38	2.50	1.67	0.89	1.62	0.56	No	No	2.0	2.3	Yes	Yes





City of Ottawa
 A22-007396
 OCT 28 2022
 SBO PAAKANAK
 BCSB
 Centrepointe

SEE 013, 014, 014 FOR NOTES, LEGEND, CD TARIFF
 STREET SECTIONS AND DETAILS



KEY PLAN

NO.	DESCRIPTION	DATE	BY
16	REVISED FROM CHANGES LOTS 17 & 61	2021 07 21	JLM
15	CORRECTION ADJUSTMENTS	2021 07 12	JLM
14	REVISIONS FROM CHANGES LOTS 17 & 61	2021 07 12	JLM
13	REVISIONS FROM CHANGES LOTS 17 & 61	2021 07 12	JLM
12	REVISIONS FROM CHANGES LOTS 17 & 61	2021 07 12	JLM
11	REVISIONS FROM CHANGES LOTS 17 & 61	2021 07 12	JLM
10	REVISIONS FROM CHANGES LOTS 17 & 61	2021 07 12	JLM
9	REVISIONS FROM CHANGES LOTS 17 & 61	2021 07 12	JLM
8	REVISIONS FROM CHANGES LOTS 17 & 61	2021 07 12	JLM
7	REVISIONS FROM CHANGES LOTS 17 & 61	2021 07 12	JLM
6	REVISIONS FROM CHANGES LOTS 17 & 61	2021 07 12	JLM
5	REVISIONS FROM CHANGES LOTS 17 & 61	2021 07 12	JLM
4	REVISIONS FROM CHANGES LOTS 17 & 61	2021 07 12	JLM
3	REVISIONS FROM CHANGES LOTS 17 & 61	2021 07 12	JLM
2	REVISIONS FROM CHANGES LOTS 17 & 61	2021 07 12	JLM
1	REVISIONS FROM CHANGES LOTS 17 & 61	2021 07 12	JLM

PATHWAYS SOUTH
 REGIONAL INC.

IBI GROUP
 400 - 333 Preston Street
 Ottawa ON K1S 5H6 Canada
 Tel: 613 225 1311 Fax: 613 225 3668
 ibigroup.com

Project Title
 pathwys
 SOUTH - FINDLAY CREEK
 PHASE 2



Drawing Title
 GRADING PLAN

Scale
 1" = 100'

Design	K.H.	Date	MAY 2019
Drawn	M.M.	Checked	J.L.M.
Project No.	105968	Drawing No.	202

#17850