

re: Geotechnical Review - Recommended Underside of Footing Elevations
Wateridge Residential Development - Phase 1B - Blocks 15, 22 and 24
335 St. Laurent Boulevard - Ottawa

to: Mattamy Homes - **Ms. Jillian Normand** - Jillian.Normand@mattamycorp.com

cc: DSEL - **Mr. Steve Merrick** - SMerrick@dssel.ca

date: December 14, 2017

file: PG4064-MEMO.04

Paterson Group (Paterson) has prepared the current memorandum report to provide design underside of footing elevations for Blocks 15, 22 and 24 at the aforementioned site.

Background Information

Paterson reviewed the following plans and sketches provided by David Schaeffer Engineering Limited (DSEL) for servicing at the aforementioned residential development:

- ❑ Grading Plan - Wateridge Block 15 - Project No. 17-946 - Sheet 2 of 5 - Revision 3 dated December 7, 2017.
- ❑ Grading Plan - Wateridge Block 22 - Project No. 17-948 - Sheet 2 of 5 - Revision 3 dated December 7, 2017.
- ❑ Grading Plan - Wateridge Block 24 - Project No. 17-949 - Sheet 2 of 5 - Revision 3 dated December 7, 2017.

Based on discussions with DSEL and Mattamy Homes, and a review of the proposed building sections provided by the architect, it is understood that the rear lane townhouses are all of slab on grade construction and the back-to-back stacked townhouses have a partial basement at 1.5 m below finished grade.

Recommendations

Based on the available information, the recommended underside of footing elevations will be governed by frost cover requirements for the slab on grade rear lane town houses. Based on this requirement, the footings for the structures have been provided with a minimum of 1.5 m of soil cover or an equivalent amount of rigid insulation.

The back-to-back stacked townhouses are designed with a partial basement. Based on the available building section design for these units, the top of the basement floor slab is located at a depth of 1.5 m below the proposed finish grade at the exterior. Therefore, the frost cover requirement has been satisfied for these units, however, an additional allowance of 400 mm was provided to account for the thickness of the floor slab and thickness of the footings. Therefore, the underside of footing elevations have been provided as 1.9 m below finished grade for the back-to-back stacked townhouse units.

Additional Frost Protection Requirements

At this time, it is understood that the back-to-back townhouses will have window wells ranging in depths from 670 to 1270 mm below ground surface. The window wells therefore present a significant reduction in frost cover. Since the underside of footing has been set at 1.9 m below finished grade for these units, the window wells can have a depth of 400 mm without requiring rigid insulation for the footings. Where the window well depth is between 400 mm to 1000 mm below finished grade, a 50 mm thick layer of HI-40 rigid insulation should be placed beneath the footings at the window wells. Where the window well depth exceeds 1 m below finished grade, the rigid insulation thickness should be increased to 100 mm. The rigid insulation should extend horizontally 600 mm beyond the exterior face of the footing, 300 mm beyond the interior face of the footing and extend horizontally 600 mm on either side of the window well.

Rigid insulation will also be required for select footings for the slab-on-grade townhouses to provide additional frost protection where adequate soil cover has not been provided. Where required, a 50 mm thick layer of HI-40 rigid insulation should be placed beneath the perimeter footings at the front and back of the townhouses. The rigid insulation should extend 600 mm beyond the exterior face of the footing and extend 300 mm beyond the interior face of the footing. The units where rigid insulation is required are presented in the attached Table 1.

The front porch footings will require rigid insulation below the underside of footing to account for additional frost protection for unheated footings. It is further expected that several of these front porch footings will be underpinned with lean mix concrete as per Paterson's recommendations in PG4064-MEMO.03 - Servicing Excavation wrt Buildings - November 22-2017. Footings which are underpinned with lean mix concrete will not require rigid insulation as the lean mix concrete is not considered frost susceptible.

Porch footings which are not underpinned with concrete and placed at a depth of 1.5 m below finished grade should have a 50 mm thick layer of rigid insulation placed below the footings. The rigid insulation should extend 600 mm horizontally beyond the footing perimeter (interior and exterior sides).

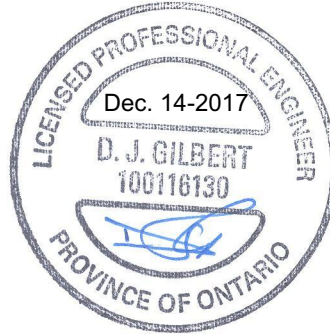
We trust that this information is satisfactory to meet your immediate requirements.

Best Regards,

Paterson Group Inc.



Colin Belcourt, M.Eng.



David J. Gilbert, P.Eng.

Paterson Group

Head Office and Laboratory
154 Colonnade Road South
Ottawa - Ontario - K2E 7J5
Tel: (613) 226-7381 Fax: (613) 226-6344

Northern Office and Laboratory
63 Gibson Street
North Bay - Ontario - P1B 8Z4
Tel: (705) 472-5331 Fax: (705) 472-2334

St. Lawrence Office
993 Princess Street
Kingston - Ontario - K7L 1H3
Tel: (613) 542-7381

Table 1 - Summary of Recommended Underside of Footings - Wateridge Village

Subdivision Block	Housing Block	Proposed Finish Grade (m)	Footing Depth Below Finished Grade (m)	Maximum Underside of Footing Elevation (m)	Recommended Underside of Footing Elevation for Housing Block (m)	Notes
Block 15	Block 1 - 1	90.24	1.50	88.74	88.40	Slab-on-Grade
Block 15	Block 1 - 2	90.18	1.50	88.68	88.40	Slab-on-Grade
Block 15	Block 1 - 3	90.13	1.50	88.63	88.40	Slab-on-Grade
Block 15	Block 1 - 4	90.09	1.50	88.59	88.40	Slab-on-Grade
Block 15	Block 1 - 4	90.04	1.50	88.54	88.40	Slab-on-Grade
Block 15	Block 1 - 5	90.00	1.50	88.50	88.40	Slab-on-Grade
Block 15	Block 1 - 6	89.96	1.50	88.46	88.40	Slab-on-Grade
Block 15	Block 1 - 7	89.91	1.50	88.41	88.40	Slab-on-Grade
Block 15	Block 1 - 8	89.88	1.50	88.38	88.40	Slab-on-Grade - 50 mm Rigid Insulation - 600 mm beyond footing face
Block 15	Block 2 - 1	90.48	1.50	88.98	88.83	Slab-on-Grade
Block 15	Block 2 - 2	90.42	1.50	88.92	88.83	Slab-on-Grade
Block 15	Block 2 - 3	90.39	1.50	88.89	88.83	Slab-on-Grade
Block 15	Block 2 - 4	90.33	1.50	88.83	88.83	Slab-on-Grade
Block 15	Block 3 - 1	90.73	1.50	89.23	89.07	Slab-on-Grade
Block 15	Block 3 - 2	90.68	1.50	89.18	89.07	Slab-on-Grade
Block 15	Block 3 - 3	90.61	1.50	89.11	89.07	Slab-on-Grade
Block 15	Block 3 - 4	90.57	1.50	89.07	89.07	Slab-on-Grade
Block 15	Block 4 - 1	91.05	1.50	89.55	89.38	Slab-on-Grade
Block 15	Block 4 - 2	91.18	1.50	89.68	89.38	Slab-on-Grade
Block 15	Block 4 - 3	91.11	1.50	89.61	89.38	Slab-on-Grade
Block 15	Block 4 - 4	91.07	1.50	89.57	89.38	Slab-on-Grade
Block 15	Block 4 - 5	91.01	1.50	89.51	89.38	Slab-on-Grade
Block 15	Block 4 - 6	90.97	1.50	89.47	89.38	Slab-on-Grade
Block 15	Block 4 - 7	90.92	1.50	89.42	89.38	Slab-on-Grade
Block 15	Block 4 - 8	90.88	1.50	89.38	89.38	Slab-on-Grade
Block 15	Block 5 - 1	90.15	1.50	88.65	88.65	Slab-on-Grade
Block 15	Block 5 - 2	90.30	1.50	88.80	88.65	Slab-on-Grade
Block 15	Block 5 - 3	90.30	1.50	88.80	88.65	Slab-on-Grade
Block 15	Block 5 - 4	90.29	1.50	88.79	88.65	Slab-on-Grade
Block 15	Block 5 - 5	90.37	1.50	88.87	88.65	Slab-on-Grade
Block 15	Block 6 - 1	90.38	1.50	88.88	88.74	Slab-on-Grade
Block 15	Block 6 - 2	90.34	1.50	88.84	88.74	Slab-on-Grade
Block 15	Block 6 - 3	90.24	1.50	88.74	88.74	Slab-on-Grade
Block 15	Block 6 - 4	90.36	1.50	88.86	88.74	Slab-on-Grade
Block 15	Block 7 - 1	90.38	1.50	88.88	88.88	Slab-on-Grade
Block 15	Block 7 - 2	90.41	1.50	88.91	88.88	Slab-on-Grade
Block 15	Block 7 - 3	90.44	1.50	88.94	88.88	Slab-on-Grade
Block 15	Block 7 - 4	90.41	1.50	88.91	88.88	Slab-on-Grade
Block 15	Block 7 - 5	90.38	1.50	88.88	88.88	Slab-on-Grade
Block 15	Block 8 - 1	90.43	1.50	88.93	88.91	Slab-on-Grade
Block 15	Block 8 - 2	90.47	1.50	88.97	88.91	Slab-on-Grade
Block 15	Block 8 - 3	90.49	1.50	88.99	88.91	Slab-on-Grade
Block 15	Block 8 - 4	90.49	1.50	88.99	88.91	Slab-on-Grade
Block 15	Block 8 - 5	90.47	1.50	88.97	88.91	Slab-on-Grade
Block 15	Block 8 - 6	90.44	1.50	88.94	88.91	Slab-on-Grade
Block 15	Block 8 - 7	90.41	1.50	88.91	88.91	Slab-on-Grade
Block 15	Block 9 - 1	90.66	1.50	89.16	89.10	Slab-on-Grade
Block 15	Block 9 - 2	90.70	1.50	89.20	89.10	Slab-on-Grade
Block 15	Block 9 - 3	90.71	1.50	89.21	89.10	Slab-on-Grade
Block 15	Block 9 - 4	90.60	1.50	89.10	89.10	Slab-on-Grade
Block 15	Block 9 - 5	90.67	1.50	89.17	89.10	Slab-on-Grade
Block 15	Block 9 - 6	90.66	1.50	89.16	89.10	Slab-on-Grade
Block 15	Block 9 - 7	90.65	1.50	89.15	89.10	Slab-on-Grade
Block 15	Block 10 - 1	90.59	1.50	89.09	89.06	Slab-on-Grade
Block 15	Block 10 - 2	90.56	1.50	89.06	89.06	Slab-on-Grade
Block 15	Block 10 - 3	90.57	1.50	89.07	89.06	Slab-on-Grade
Block 15	Block 10 - 4	90.56	1.50	89.06	89.06	Slab-on-Grade
Block 15	Block 10 - 5	90.63	1.50	89.13	89.06	Slab-on-Grade
Block 15	Block 10 - 6	90.66	1.50	89.16	89.06	Slab-on-Grade
Block 15	Block 10 - 7	90.59	1.50	89.09	89.06	Slab-on-Grade
Block 15	Block 11 - 1	90.61	1.50	89.11	89.11	Slab-on-Grade
Block 15	Block 11 - 2	90.63	1.50	89.13	89.11	Slab-on-Grade
Block 15	Block 11 - 3	90.65	1.50	89.15	89.11	Slab-on-Grade
Block 15	Block 11 - 4	90.66	1.50	89.16	89.11	Slab-on-Grade
Block 15	Block 11 - 5	90.67	1.50	89.17	89.11	Slab-on-Grade
Block 15	Block 11 - 6	90.69	1.50	89.19	89.11	Slab-on-Grade
Block 15	Block 11 - 7	90.72	1.50	89.22	89.11	Slab-on-Grade
Block 15	Block 11 - 8	90.72	1.50	89.22	89.11	Slab-on-Grade
Block 15	Block 12 - 1	90.53	1.50	89.03	89.03	Slab-on-Grade
Block 15	Block 12 - 2	90.64	1.50	89.14	89.03	Slab-on-Grade
Block 15	Block 12 - 3	90.66	1.50	89.16	89.03	Slab-on-Grade
Block 15	Block 12 - 4	90.68	1.50	89.18	89.03	Slab-on-Grade
Block 15	Block 12 - 5	90.67	1.50	89.17	89.03	Slab-on-Grade
Block 15	Block 12 - 6	90.65	1.50	89.15	89.03	Slab-on-Grade
Block 15	Block 12 - 7	90.62	1.50	89.12	89.03	Slab-on-Grade
Block 15	Block 12 - 8	90.61	1.50	89.11	89.03	Slab-on-Grade
Block 15	Block 13 - 1	90.98	1.50	89.48	89.37	Slab-on-Grade
Block 15	Block 13 - 2	90.87	1.50	89.37	89.37	Slab-on-Grade
Block 15	Block 13 - 3	90.89	1.50	89.39	89.37	Slab-on-Grade
Block 15	Block 13 - 4	90.91	1.50	89.41	89.37	Slab-on-Grade
Block 15	Block 13 - 5	90.92	1.50	89.42	89.37	Slab-on-Grade
Block 15	Block 13 - 6	90.94	1.50	89.44	89.37	Slab-on-Grade
Block 15	Block 13 - 7	90.97	1.50	89.47	89.37	Slab-on-Grade
Block 15	Block 14 - 1	91.02	1.50	89.52	89.38	Slab-on-Grade
Block 15	Block 14 - 2	91.05	1.50	89.55	89.38	Slab-on-Grade
Block 15	Block 14 - 3	91.07	1.50	89.57	89.38	Slab-on-Grade
Block 15	Block 14 - 4	91.07	1.50	89.57	89.38	Slab-on-Grade
Block 15	Block 14 - 5	91.04	1.50	89.54	89.38	Slab-on-Grade
Block 15	Block 14 - 6	91.00	1.50	89.50	89.38	Slab-on-Grade
Block 15	Block 14 - 7	90.88	1.50	89.38	89.38	Slab-on-Grade
Block 15	Block 15 - 1	90.88	1.50	89.38	89.19	Slab-on-Grade
Block 15	Block 15 - 2	90.80	1.50	89.30	89.19	Slab-on-Grade

Table 1 - Summary of Recommended Underside of Footings - Wateridge Village

Subdivision Block	Housing Block	Proposed Finish Grade (m)	Footing Depth Below Finished Grade (m)	Maximum Underside of Footing Elevation (m)	Recommended Underside of Footing Elevation for Housing Block (m)	Notes
Block 15	Block 15 - 3	90.75	1.50	89.25	89.19	Slab-on-Grade
Block 15	Block 15 - 4	90.71	1.50	89.21	89.19	Slab-on-Grade
Block 15	Block 15 - 5	90.69	1.50	89.19	89.19	Slab-on-Grade
Block 15	Block 15 - 6	90.71	1.50	89.21	89.19	Slab-on-Grade
Block 15	Block 15 - 7	90.72	1.50	89.22	89.19	Slab-on-Grade
Block 15	Block 16 - 1	89.83	1.50	88.33	88.09	Slab-on-Grade
Block 15	Block 16 - 2	89.78	1.50	88.28	88.09	Slab-on-Grade
Block 15	Block 16 - 3	89.77	1.50	88.27	88.09	Slab-on-Grade
Block 15	Block 16 - 4	89.69	1.50	88.19	88.09	Slab-on-Grade
Block 15	Block 16 - 5	89.59	1.50	88.09	88.09	Slab-on-Grade
Block 15	Block 17 - 1	90.04	1.50	88.54	88.33	Slab-on-Grade
Block 15	Block 17 - 2	89.99	1.50	88.49	88.33	Slab-on-Grade
Block 15	Block 17 - 3	89.94	1.50	88.44	88.33	Slab-on-Grade
Block 15	Block 17 - 4	89.89	1.50	88.39	88.33	Slab-on-Grade
Block 15	Block 17 - 5	89.83	1.50	88.33	88.33	Slab-on-Grade
Block 15	Block 19 - 1	90.32	1.50	88.82	88.77	Slab-on-Grade
Block 15	Block 19 - 2	90.27	1.50	88.77	88.77	Slab-on-Grade
Block 15	Block 19 - 3	90.27	1.50	88.77	88.77	Slab-on-Grade
Block 15	Block 19 - 4	90.28	1.50	88.78	88.77	Slab-on-Grade
Block 15	Block 19 - 5	90.27	1.50	88.77	88.77	Slab-on-Grade
Block 15	Block 19 - 6	90.28	1.50	88.78	88.77	Slab-on-Grade
Block 15	Block 19 - 7	90.27	1.50	88.77	88.77	Slab-on-Grade
Block 15	Block 21 - 1	90.50	1.50	89.00	88.81	Slab-on-Grade
Block 15	Block 21 - 2	90.48	1.50	88.98	88.81	Slab-on-Grade
Block 15	Block 21 - 3	90.46	1.50	88.96	88.81	Slab-on-Grade
Block 15	Block 21 - 4	90.44	1.50	88.94	88.81	Slab-on-Grade
Block 15	Block 21 - 5	90.40	1.50	88.90	88.81	Slab-on-Grade
Block 15	Block 21 - 6	90.37	1.50	88.87	88.81	Slab-on-Grade
Block 15	Block 21 - 7	90.33	1.50	88.83	88.81	Slab-on-Grade
Block 15	Block 21 - 8	90.31	1.50	88.81	88.81	Slab-on-Grade
Block 15	Block 22 - 1	90.40	1.50	88.90	88.89	Slab-on-Grade
Block 15	Block 22 - 2	90.39	1.50	88.89	88.89	Slab-on-Grade
Block 15	Block 22 - 3	90.39	1.50	88.89	88.89	Slab-on-Grade
Block 15	Block 22 - 4	90.43	1.50	88.93	88.89	Slab-on-Grade
Block 22	Block 1 - 1	89.85	1.50	88.35	88.35	Slab-on-Grade
Block 22	Block 1 - 2	89.91	1.50	88.41	88.35	Slab-on-Grade
Block 22	Block 1 - 3	89.99	1.50	88.49	88.35	Slab-on-Grade
Block 22	Block 1 - 4	90.05	1.50	88.55	88.35	Slab-on-Grade
Block 22	Block 1 - 5	90.12	1.50	88.62	88.35	Slab-on-Grade
Block 22	Block 2 - 1	90.23	1.50	88.73	88.73	Slab-on-Grade
Block 22	Block 2 - 2	90.28	1.50	88.78	88.73	Slab-on-Grade
Block 22	Block 2 - 3	90.33	1.50	88.83	88.73	Slab-on-Grade
Block 22	Block 2 - 4	90.41	1.50	88.91	88.73	Slab-on-Grade
Block 22	Block 2 - 5	90.49	1.50	88.99	88.73	Slab-on-Grade
Block 22	Block 2 - 6	90.53	1.50	89.03	88.73	Slab-on-Grade
Block 22	Block 3 - 1	89.35	1.90	87.45	87.40	Back-to-back with partial basement
Block 22	Block 3 - 2	89.30	1.90	87.40	87.40	Back-to-back with partial basement
Block 22	Block 3 - 3	89.34	1.90	87.44	87.40	Back-to-back with partial basement
Block 22	Block 3 - 4	89.38	1.90	87.48	87.40	Back-to-back with partial basement
Block 22	Block 3 - 5	89.42	1.90	87.52	87.40	Back-to-back with partial basement - Check between front and back units
Block 22	Block 3 - 6	89.89	1.90	87.99	87.78	Back-to-back with partial basement - Check between front and back units
Block 22	Block 3 - 7	89.87	1.90	87.97	87.78	Back-to-back with partial basement
Block 22	Block 3 - 8	89.87	1.90	87.97	87.78	Back-to-back with partial basement
Block 22	Block 3 - 9	89.87	1.90	87.97	87.78	Back-to-back with partial basement
Block 22	Block 3 - 10	89.68	1.90	87.78	87.78	Back-to-back with partial basement
Block 22	Block 4 - 1	90.25	1.90	88.35	88.25	Back-to-back with partial basement
Block 22	Block 4 - 2	90.20	1.90	88.30	88.25	Back-to-back with partial basement
Block 22	Block 4 - 3	90.20	1.90	88.30	88.25	Back-to-back with partial basement
Block 22	Block 4 - 4	90.20	1.90	88.30	88.25	Back-to-back with partial basement
Block 22	Block 4 - 5	90.20	1.90	88.30	88.25	Back-to-back with partial basement
Block 22	Block 4 - 6	90.15	1.90	88.25	88.25	Back-to-back with partial basement
Block 22	Block 4 - 7	90.20	1.90	88.30	88.25	Back-to-back with partial basement
Block 22	Block 4 - 8	90.24	1.90	88.34	88.25	Back-to-back with partial basement
Block 22	Block 4 - 9	90.28	1.90	88.38	88.25	Back-to-back with partial basement
Block 22	Block 4 - 10	90.47	1.90	88.57	88.25	Back-to-back with partial basement
Block 24	Block 1 - 1	90.57	1.50	89.07	89.67	Slab-on-Grade - 50 mm Rigid Insulation - 600 mm beyond footing face
Block 24	Block 1 - 2	91.32	1.50	89.82	89.67	Slab-on-Grade
Block 24	Block 1 - 3	91.46	1.50	89.96	89.67	Slab-on-Grade - Check in footing between unit 3/4
Block 24	Block 1 - 4	91.55	1.50	90.05	89.92	Slab-on-Grade - Check in footing between unit 3/4
Block 24	Block 1 - 5	91.67	1.50	90.17	89.92	Slab-on-Grade
Block 24	Block 1 - 6	91.76	1.50	90.26	89.92	Slab-on-Grade - check in footing between units 6/7
Block 24	Block 1 - 7	91.89	1.50	90.39	90.17	Slab-on-Grade - check in footing between units 6/7
Block 24	Block 1 - 8	92.03	1.50	90.53	90.17	Slab-on-Grade
Block 24	Block 2 - 1	92.11	1.50	90.61	90.70	Slab-on-Grade - 50 mm Rigid Insulation - 600 mm beyond footing face
Block 24	Block 2 - 2	92.23	1.50	90.73	90.70	Slab-on-Grade
Block 24	Block 2 - 3	92.35	1.50	90.85	90.70	Slab-on-Grade - Check in footing between unit 3/4
Block 24	Block 2 - 4	92.47	1.50	90.97	90.95	Slab-on-Grade - Check in footing between unit 3/4
Block 24	Block 2 - 5	92.67	1.50	91.17	90.95	Slab-on-Grade
Block 24	Block 2 - 6	92.77	1.50	91.27	90.95	Slab-on-Grade
Block 24	Block 3 - 1	92.90	1.50	91.40	91.50	Slab-on-Grade - 50 mm Rigid Insulation - 600 mm beyond footing face
Block 24	Block 3 - 2	92.99	1.50	91.49	91.50	Slab-on-Grade
Block 24	Block 3 - 3	93.08	1.50	91.58	91.50	Slab-on-Grade
Block 24	Block 3 - 4	93.17	1.50	91.67	91.50	Slab-on-Grade - Check in footing between unit 4/5
Block 24	Block 3 - 5	93.27	1.50	91.77	91.75	Slab-on-Grade - Check in footing between unit 4/5
Block 24	Block 3 - 6	93.37	1.50	91.87	91.75	Slab-on-Grade
Block 24	Block 3 - 7	93.46	1.50	91.96	91.75	Slab-on-Grade
Block 24	Block 4 - 1	90.04	1.50	88.54	88.54	Slab-on-Grade
Block 24	Block 4 - 2	90.08	1.50	88.58	88.54	Slab-on-Grade
Block 24	Block 4 - 3	90.12	1.50	88.62	88.54	Slab-on-Grade
Block 24	Block 4 - 4	90.17	1.50	88.67	88.54	Slab-on-Grade
Block 24	Block 4 - 5	90.21	1.50	88.71	88.54	Slab-on-Grade
Block 24	Block 4 - 6	90.25	1.50	88.75	88.54	Slab-on-Grade

Table 1 - Summary of Recommended Underside of Footings - Wateridge Village

Subdivision Block	Housing Block	Proposed Finish Grade (m)	Footing Depth Below Finished Grade (m)	Maximum Underside of Footing Elevation (m)	Recommended Underside of Footing Elevation for Housing Block (m)	Notes
Block 24	Block 4 - 7	90.33	1.50	88.83	88.54	Slab-on-Grade
Block 24	Block 5 - 1	89.80	1.50	88.30	88.30	Slab-on-Grade
Block 24	Block 5 - 2	89.82	1.50	88.32	88.30	Slab-on-Grade
Block 24	Block 5 - 3	89.86	1.50	88.36	88.30	Slab-on-Grade
Block 24	Block 5 - 4	89.90	1.50	88.40	88.30	Slab-on-Grade
Block 24	Block 5 - 5	89.93	1.50	88.43	88.30	Slab-on-Grade
Block 24	Block 5 - 6	89.97	1.50	88.47	88.30	Slab-on-Grade
Block 24	Block 6 - 1	90.86	1.50	89.36	89.36	Slab-on-Grade
Block 24	Block 6 - 2	90.87	1.50	89.37	89.36	Slab-on-Grade
Block 24	Block 6 - 3	90.86	1.50	89.36	89.36	Slab-on-Grade
Block 24	Block 6 - 4	90.87	1.50	89.37	89.36	Slab-on-Grade - check in footing between units 4/5
Block 24	Block 6 - 5	90.76	1.50	89.26	89.25	Slab-on-Grade - check in footing between units 4/5
Block 24	Block 6 - 6	90.43	1.50	88.93	89.25	Slab-on-Grade - 50 mm Rigid Insulation - 600 mm beyond footing face
Block 24	Block 6 - 7	90.48	1.50	88.98	89.25	Slab-on-Grade - 50 mm Rigid Insulation - 600 mm beyond footing face
Block 24	Block 7 - 1	90.38	1.50	88.88	89.63	Slab-on-Grade
Block 24	Block 7 - 2	90.22	1.50	88.72	89.63	Slab-on-Grade
Block 24	Block 7 - 3	90.22	1.50	88.72	89.63	Slab-on-Grade
Block 24	Block 7 - 4	90.22	1.50	88.72	88.63	Slab-on-Grade
Block 24	Block 7 - 5	90.19	1.50	88.69	88.63	Slab-on-Grade
Block 24	Block 7 - 6	90.13	1.50	88.63	88.63	Slab-on-Grade
Block 24	Block 8 - 1	90.44	1.50	88.94	89.10	Slab-on-Grade - 50 mm Rigid Insulation - 600 mm beyond footing face
Block 24	Block 8 - 2	90.44	1.50	88.94	89.10	Slab-on-Grade - 50 mm Rigid Insulation - 600 mm beyond footing face
Block 24	Block 8 - 3	90.57	1.50	89.07	89.10	Slab-on-Grade
Block 24	Block 8 - 4	90.76	1.50	89.26	89.10	Slab-on-Grade
Block 24	Block 8 - 5	90.84	1.50	89.34	89.10	Slab-on-Grade
Block 24	Block 8 - 6	90.85	1.50	89.35	89.10	Slab-on-Grade
Block 24	Block 8 - 7	90.84	1.50	89.34	89.10	Slab-on-Grade
Block 24	Block 9 - 1	90.14	1.50	88.64	88.64	Slab-on-Grade
Block 24	Block 9 - 2	90.16	1.50	88.66	88.64	Slab-on-Grade
Block 24	Block 9 - 3	90.25	1.50	88.75	88.64	Slab-on-Grade
Block 24	Block 9 - 4	90.24	1.50	88.74	88.64	Slab-on-Grade
Block 24	Block 9 - 5	90.25	1.50	88.75	88.64	Slab-on-Grade
Block 24	Block 9 - 6	90.40	1.50	88.90	88.64	Slab-on-Grade
Block 24	Block 10 - 1	91.89	1.90	89.99	89.20	Back-to-back with partial basement
Block 24	Block 10 - 2	91.66	1.90	89.76	89.20	Back-to-back with partial basement
Block 24	Block 10 - 3	91.57	1.90	89.67	89.20	Back-to-back with partial basement
Block 24	Block 10 - 4	91.46	1.90	89.56	89.20	Back-to-back with partial basement
Block 24	Block 10 - 5	91.29	1.90	89.39	89.20	Back-to-back with partial basement
Block 24	Block 10 - 6	91.10	1.90	89.20	89.20	Back-to-back with partial basement - Check between front and back units
Block 24	Block 10 - 7	91.42	1.90	89.52	89.52	Back-to-back with partial basement - check between front and back units
Block 24	Block 10 - 8	91.57	1.90	89.67	89.52	Back-to-back with partial basement
Block 24	Block 10 - 9	91.71	1.90	89.81	89.52	Back-to-back with partial basement
Block 24	Block 10 - 10	91.88	1.90	89.98	89.52	Back-to-back with partial basement
Block 24	Block 10 - 11	92.03	1.90	90.13	89.52	Back-to-back with partial basement
Block 24	Block 10 - 12	92.19	1.90	90.29	89.52	Back-to-back with partial basement
Block 24	Block 11 - 1	91.04	1.90	89.14	88.81	Back-to-back with partial basement
Block 24	Block 11 - 2	90.88	1.90	88.98	88.81	Back-to-back with partial basement
Block 24	Block 11 - 3	90.84	1.90	88.94	88.81	Back-to-back with partial basement
Block 24	Block 11 - 4	90.81	1.90	88.91	88.81	Back-to-back with partial basement
Block 24	Block 11 - 5	90.71	1.90	88.81	88.81	Back-to-back with partial basement
Block 24	Block 11 - 6	90.71	1.90	88.81	88.81	Back-to-back with partial basement - Check between front and back units
Block 24	Block 11 - 7	91.00	1.90	89.10	89.10	Back-to-back with partial basement - Check between front and back units
Block 24	Block 11 - 8	91.06	1.90	89.16	89.10	Back-to-back with partial basement
Block 24	Block 11 - 9	91.15	1.90	89.25	89.10	Back-to-back with partial basement
Block 24	Block 11 - 10	91.22	1.90	89.32	89.10	Back-to-back with partial basement
Block 24	Block 11 - 11	91.31	1.90	89.41	89.10	Back-to-back with partial basement
Block 24	Block 11 - 12	91.50	1.90	89.60	89.10	Back-to-back with partial basement
Block 24	Block 12 - 1	90.13	1.50	88.63	88.35	Slab-on-Grade
Block 24	Block 12 - 2	90.09	1.50	88.59	88.35	Slab-on-Grade
Block 24	Block 12 - 3	90.07	1.50	88.57	88.35	Slab-on-Grade
Block 24	Block 12 - 4	90.02	1.50	88.52	88.35	Slab-on-Grade
Block 24	Block 12 - 5	89.97	1.50	88.47	88.35	Slab-on-Grade
Block 24	Block 12 - 6	89.91	1.50	88.41	88.35	Slab-on-Grade
Block 24	Block 12 - 7	89.85	1.50	88.35	88.35	Slab-on-Grade
Block 24	Block 12 - 8	89.65	1.50	88.15	88.35	Slab-on-Grade - 50 mm Rigid Insulation - 600 mm beyond footing face
Block 24	Block 13 - 1	90.52	1.50	89.02	88.76	Slab-on-Grade
Block 24	Block 13 - 2	90.46	1.50	88.96	88.76	Slab-on-Grade
Block 24	Block 13 - 3	90.42	1.50	88.92	88.76	Slab-on-Grade
Block 24	Block 13 - 4	90.36	1.50	88.86	88.76	Slab-on-Grade
Block 24	Block 13 - 5	90.31	1.50	88.81	88.76	Slab-on-Grade
Block 24	Block 13 - 6	90.26	1.50	88.76	88.76	Slab-on-Grade
Block 24	Block 14 - 1	90.89	1.50	89.39	89.08	Slab-on-Grade
Block 24	Block 14 - 2	90.83	1.50	89.33	89.08	Slab-on-Grade
Block 24	Block 14 - 3	90.79	1.50	89.29	89.08	Slab-on-Grade
Block 24	Block 14 - 4	90.73	1.50	89.23	89.08	Slab-on-Grade
Block 24	Block 14 - 5	90.68	1.50	89.18	89.08	Slab-on-Grade
Block 24	Block 14 - 6	90.63	1.50	89.13	89.08	Slab-on-Grade
Block 24	Block 14 - 7	90.58	1.50	89.08	89.08	Slab-on-Grade

Note: Lot numbers were assumed as if standing in the street, looking towards the houses and starting with number 1 on the left.