

MEMO

Date: 09 March 2022
To: Name
From: RPS Consulting
Pages: 5 inc. this page
Regarding: 7abc Bayham Street, Basement Impact Assessment

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Milton Park
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Appendix A

Ground Model Parameters

DRAFT

Ground Model adopted in original assessment report**Eu=750Cu, E'/Eu=0.8**

Ground Model Adopted in Pdisp analysis									
Strata	Thickness	γ	ϕ'	Cu	C'	Eu	E'	ν	νu
	[m]	[KN/m ³]	[°]	[KPa]	[KPa]	[MPa]	[MPa]		
Made Ground	2	18	-	40	-	10	-	0.30	0.5
London Clay 1	25	20	21	50 - 275	5	37.5 - 207.5	30.0 - 166.0	0.25	0.5
London Clay 2	10	20	21	275	5	207.5	166	0.25	0.5

Ground Model adopted in re-assessment analysis**Eu=600Cu, E'/Eu=0.75**

Ground Model Adopted in Pdisp analysis									
Strata	Thickness	γ	ϕ'	Cu	C'	Eu	E'	ν	νu
	[m]	[KN/m ³]	[°]	[KPa]	[KPa]	[MPa]	[MPa]		
Made Ground	2	18	-	40	-	10	-	0.30	0.5
London Clay 1	25	20	21	50 - 275	5	30 - 166	22.5 - 124.5	0.25	0.5
London Clay 2	10	20	21	275	5	166	124.5	0.25	0.5

Stress relief due to unloading

Description	Unload Elevation (m AOD)	Unload Pressure (kN/m ²)
Demolition of existing buildings	22.97	-20
Excavation to formation of Lower ground Floor	18.54	-78
Excavation to formation of B-1 base level	13.97	-169.4
Excavation to formation of B-2 base level	10.5	-238.8

Appendix B

Analysis of Demolition and Underpinning

DRAFT

LEGEND:

Underpinning



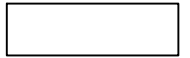
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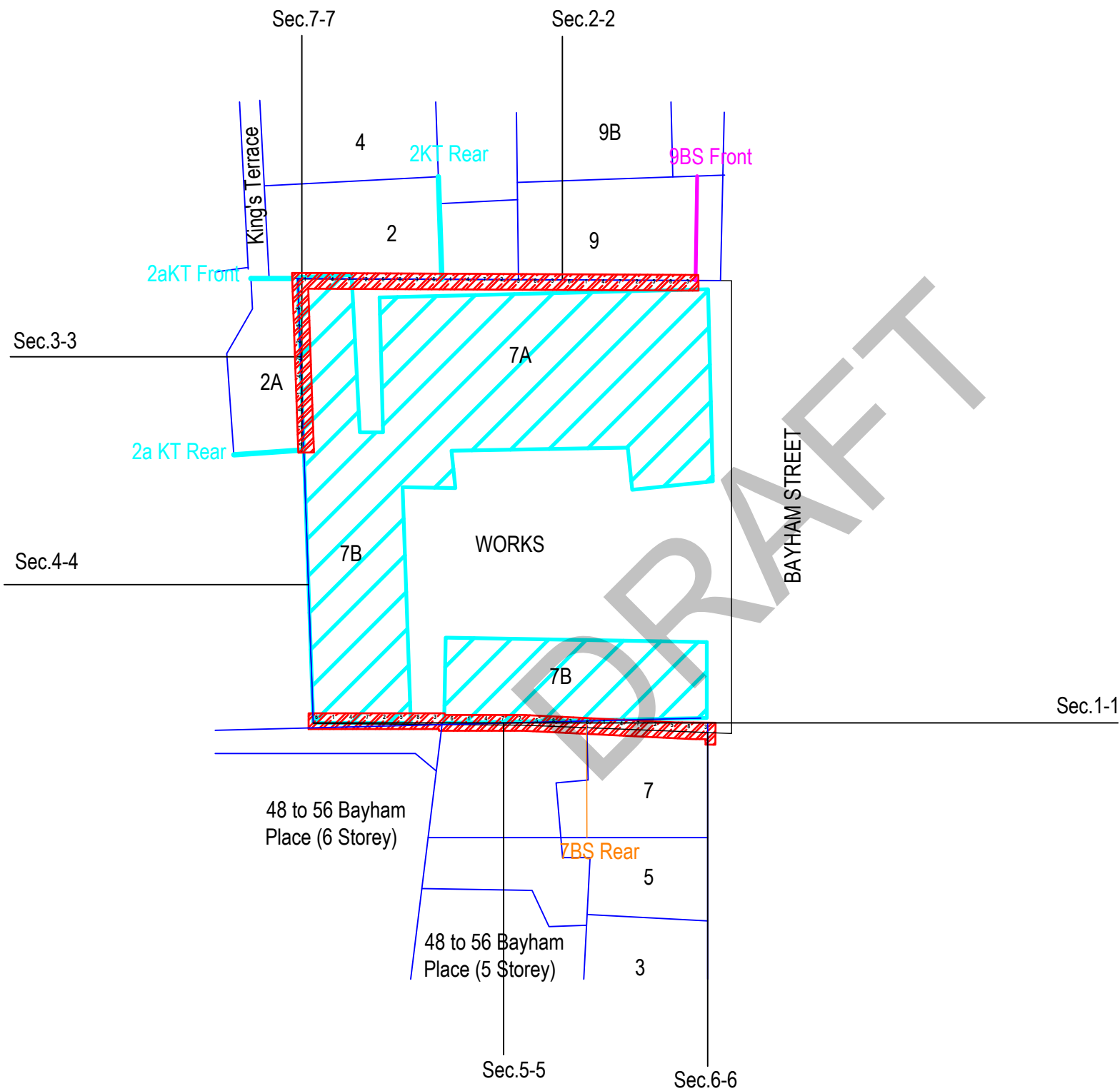
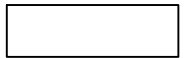
LGF
Excavation



B-2
Excavation

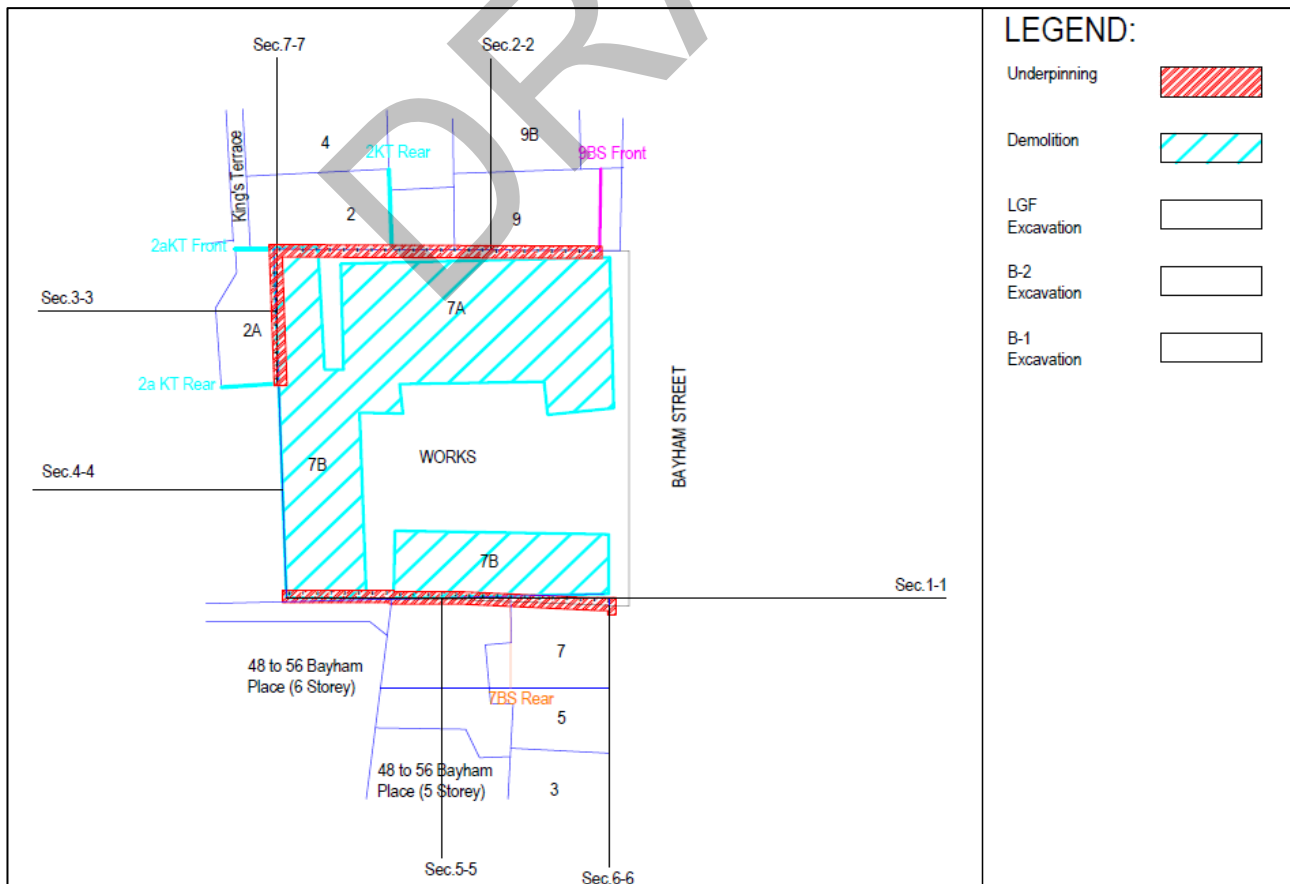


B-1
Excavation

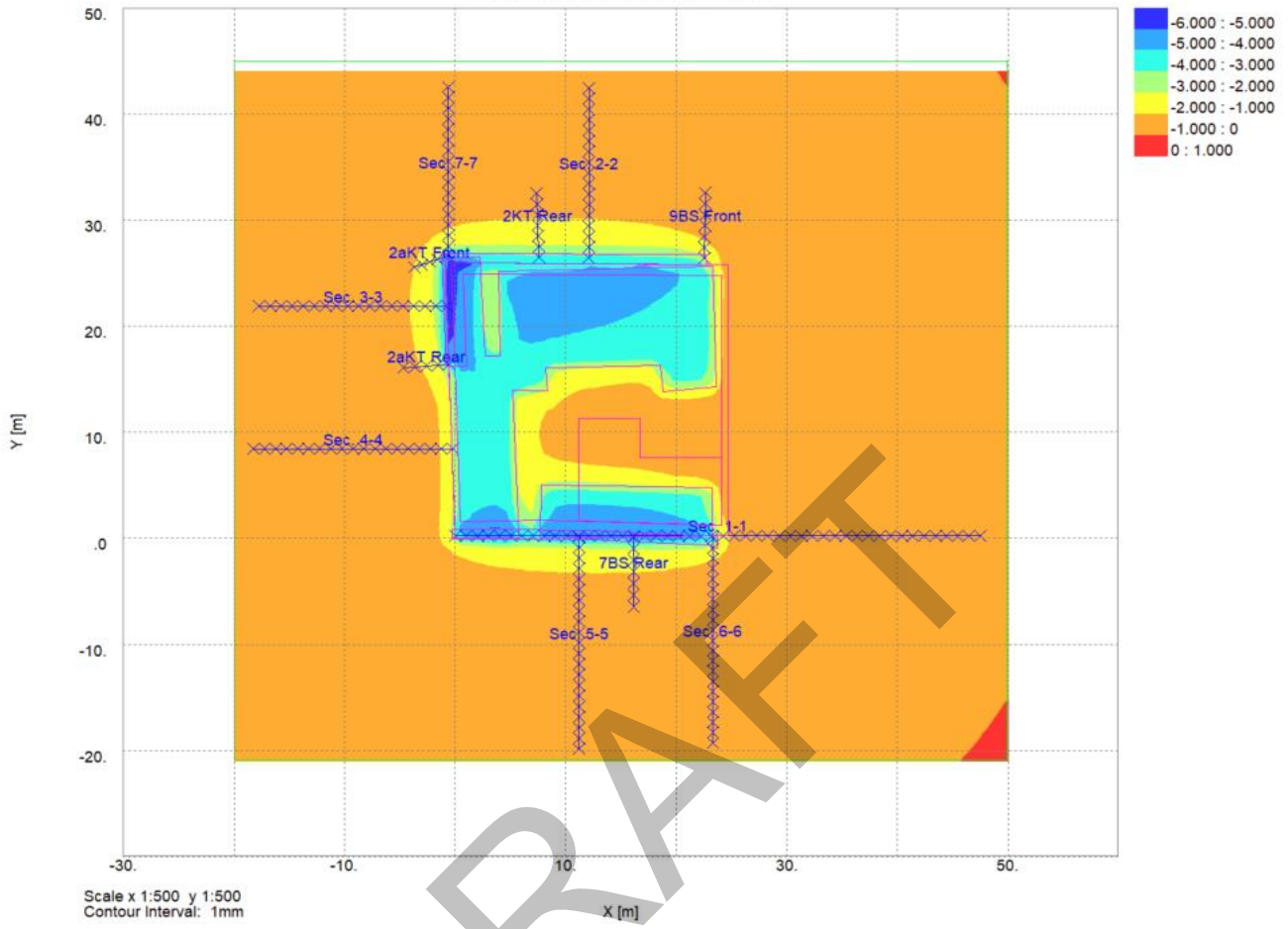


Demolition and Underpinning Excavation- Summary of damage assessment results

Property	Façade Dimensions, L/H	Maximum Deflection (mm)	Net Horizontal Movement (mm)	Deflection Ratio Δ/L (%)	Horizontal Strain ϵ_h (%)	Damage Category
9 Bayham St. Front	6.2/9.1	-0.42	2.31	0.007	0.038	1
9 Bayham St. Rear	5.5/9.0	-1.50	2.06	0.027	0.038	1
9a Bayham St.	10.2/11.0	2.32	3.83	0.023	0.038	0
2a King's Terrace Front	2.8/6.0	-1.60	1.04	0.057	0.037	1
2a King's Terrace Rear	4.2/6.0	-2.10	1.55	0.051	0.037	1
2a King's Terrace	4.2/6.0	-2.50	1.58	0.060	0.038	1
1b King's Terrace	8.3/6.0	1.77	3.11	0.021	0.038	1
48 to 56 Bayham Place - 6 Storey	20.0/18.0	1.31	10.30	0.007	0.052	1
48 to 56 Bayham Place - 5 Storey	15.0/10.0	2.62	3.88	0.017	0.026	0
2 King's Terrace Rear	6.0/8.5	0.04	2.25	0.025	0.038	1
2 King's Terrace Front	6.2/8.5	-1.81	2.33	0.033	0.042	1
4 King's Terrace	4.7/8.5	1.09	1.76	0.020	0.032	0
6 King's Terrace	4.3/8.5	1.13	1.13	0.028	0.040	1
7 Bayham St. Rear (at Basement formation level 20.47m AOD)	6.0/14.5	-2.14	2.25	0.036	0.038	1
7 Bayham St. Front (at Ground Level 22.97m AOD)	6.0/14.5	-1.08	1.88	0.018	0.038	0
5 Bayham St.	5.0/11.5	1.22	1.88	0.024	0.038	1
3 Bayham St.	7.5/11.5	2.15	3.00	0.027	0.038	1



Settlement Contours : Grid 1 at 22.9700m



Oasys Ltd.

7 Bayham Street BIA
GMA Due to Excavation
Short Term - Undrained

File 7 Bayham St. BIA Reass- Dem and Underpin- UDr_Red Eu.pdd
Exported 03/06/22 09:48:28

PDisp 20.0.0.12 64-bit Copyright © Oasys 1997-2019

Results : Immediate : Displacement Data : Lines

START_TABLE

Ref.	Name	x [m]	y [m]	z [mOD]	dz [mm]	Stress: Calc. [mOD]	Stress: Vertic [kN/m ²]	Stress: Sum [kN/m ²]	Vert. Strain [
1	Sec. 1-1	-0.01	0.29	22.97	-3.63	23	-9.6	-24	-2.30E-04
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1	Sec. 1-1	4.04	0.29	22.97	-5.52	23	-19	-46	-5.40E-04
1	Sec. 1-1	5.05	0.29	22.97	-5.41	23	-19	-44	-6.10E-04
1	Sec. 1-1	6.06	0.29	22.97	-4.09	23	-0.6	-7.5	2.90E-04
1	Sec. 1-1	7.07	0.29	22.97	-3.92	23	-0.057	-3.6	1.70E-04
1	Sec. 1-1	8.08	0.29	22.97	-4.73	23	-8.8	-24	-1.30E-04
1	Sec. 1-1	9.09	0.29	22.97	-5.03	23	-10	-29	-9.00E-05
1	Sec. 1-1	10.11	0.29	22.97	-5.14	23	-11	-31	-1.50E-04
1	Sec. 1-1	11.12	0.29	22.97	-5.22	23	-12	-33	-2.20E-04
1	Sec. 1-1	12.13	0.29	22.97	-5.28	23	-13	-34	-2.90E-04
1	Sec. 1-1	13.14	0.29	22.97	-5.32	23	-14	-36	-3.50E-04
1	Sec. 1-1	14.15	0.29	22.97	-5.36	23	-15	-37	-4.00E-04
1	Sec. 1-1	15.16	0.29	22.97	-5.39	23	-16	-39	-4.40E-04
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1	Sec. 1-1	18.2	0.29	22.97	-5.17	23	-17	-42	-5.10E-04
1	Sec. 1-1	19.21	0.29	22.97	-5.13	23	-18	-43	-5.30E-04
1	Sec. 1-1	20.22	0.29	22.97	-5.07	23	-18	-44	-5.40E-04
1	Sec. 1-1	21.23	0.29	22.97	-4.93	23	-18	-44	-5.50E-04
1	Sec. 1-1	22.25	0.29	22.97	-4.53	23	-19	-44	-6.00E-04
1	Sec. 1-1	23.26	0.29	22.97	-3.15	23	-6.3	-19	7.70E-06
1	Sec. 1-1	24.27	0.29	22.97	-1.26	23	-0.018	-1.7	8.20E-05
1	Sec. 1-1	25.28	0.29	22.97	-0.78	23	-0.0022	-0.69	3.40E-05
1	Sec. 1-1	26.29	0.29	22.97	-0.58	23	-5.80E-04	-0.39	1.90E-05
1	Sec. 1-1	27.3	0.29	22.97	-0.47	23	-2.20E-04	-0.25	1.30E-05
1	Sec. 1-1	28.32	0.29	22.97	-0.39	23	-1.00E-04	-0.18	9.00E-06
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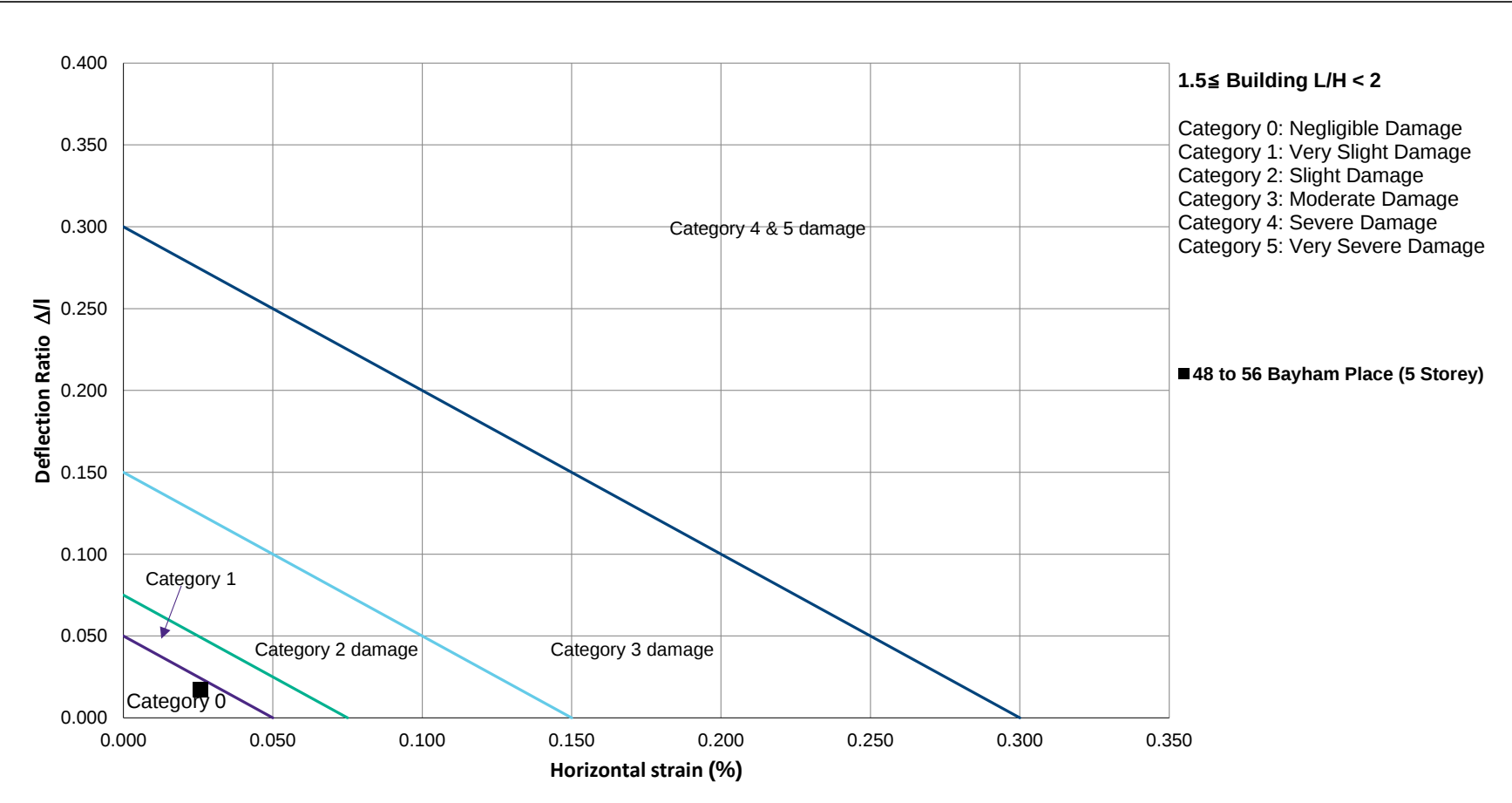
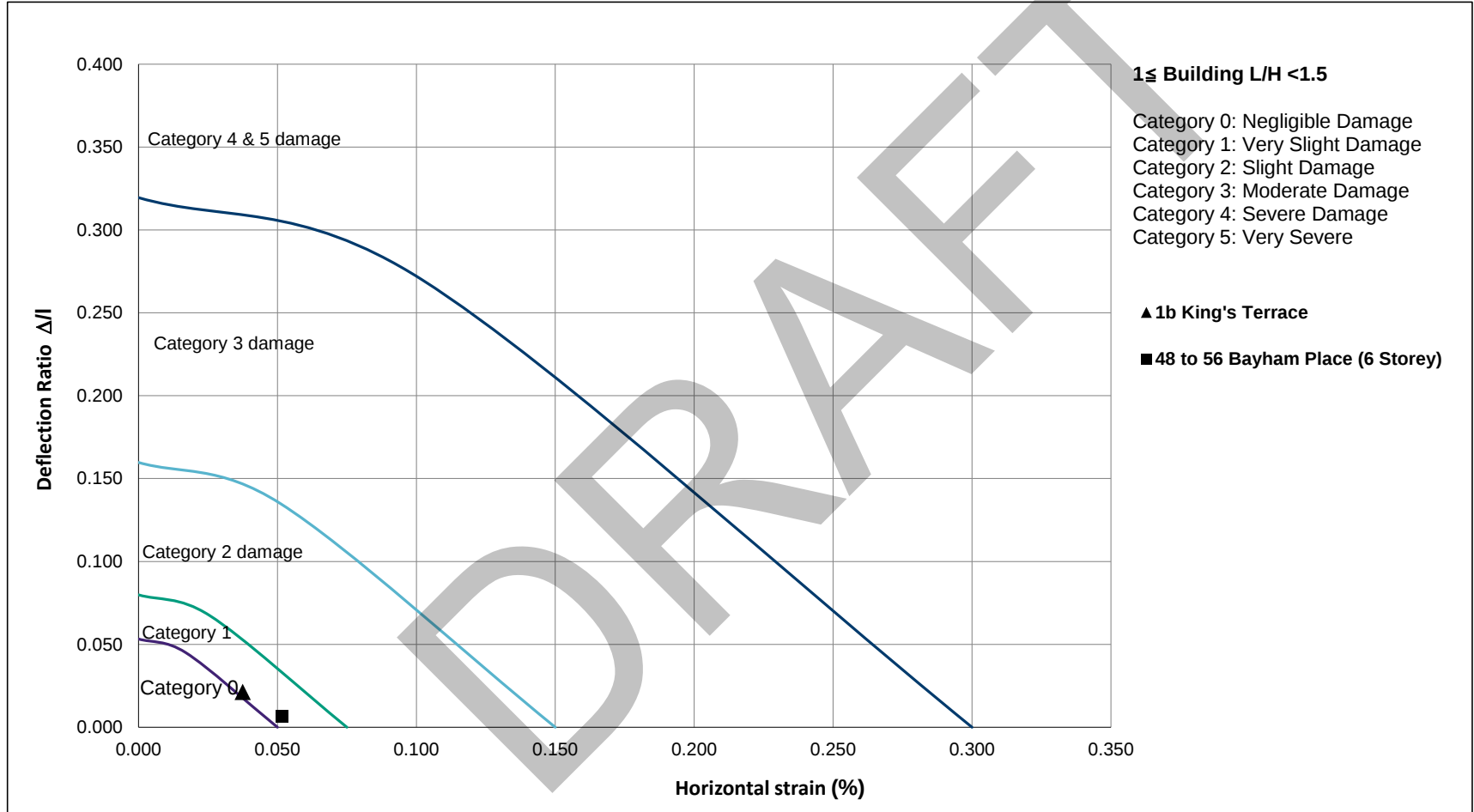
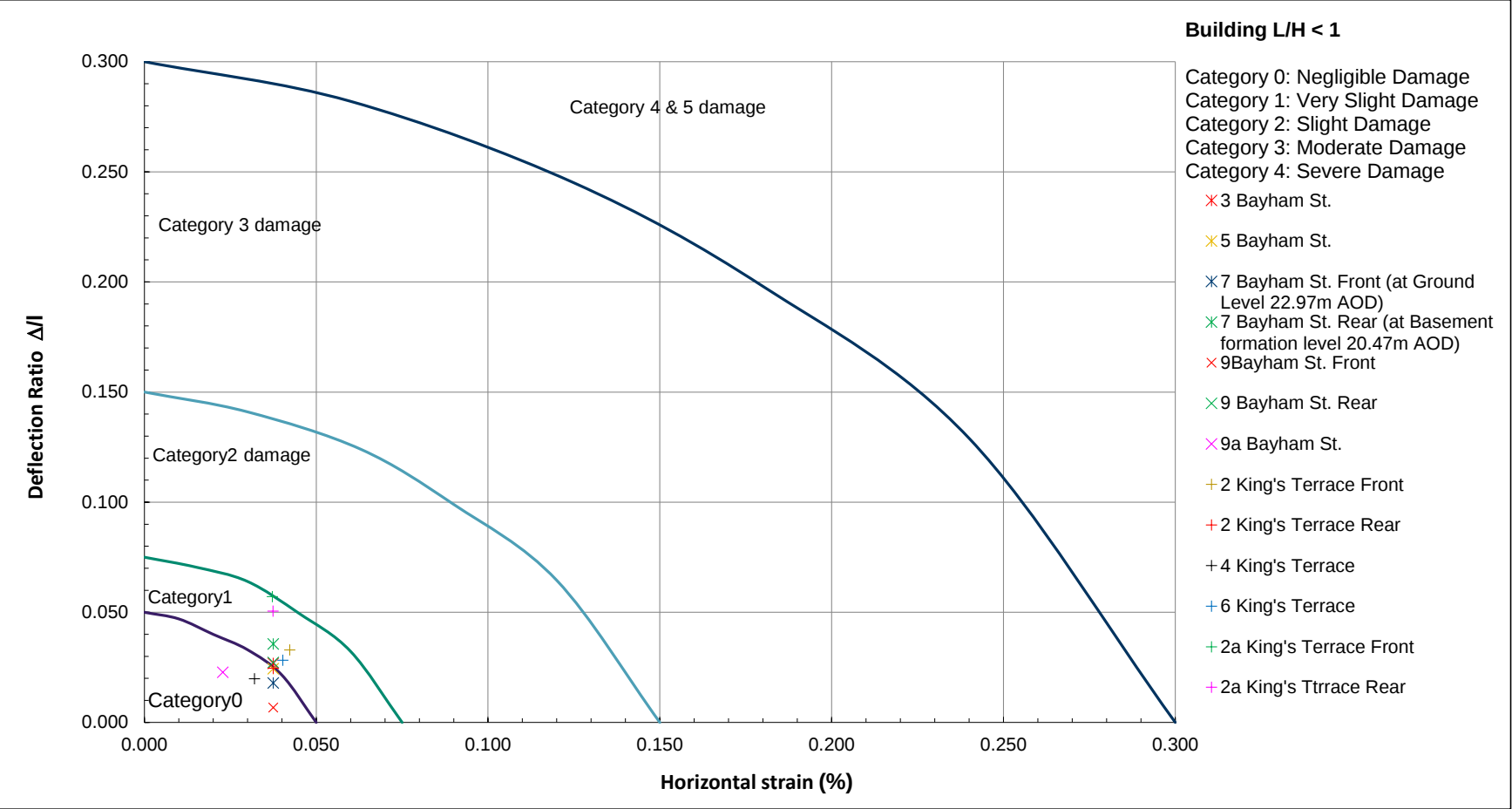
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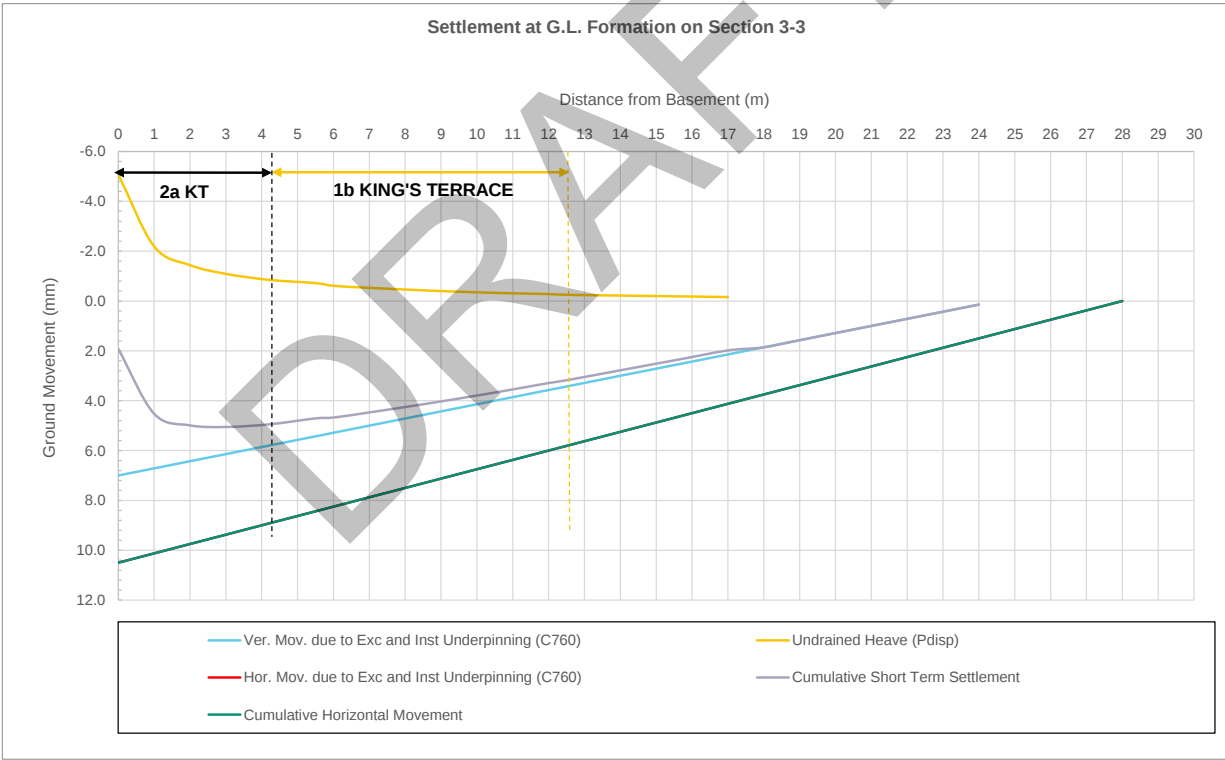
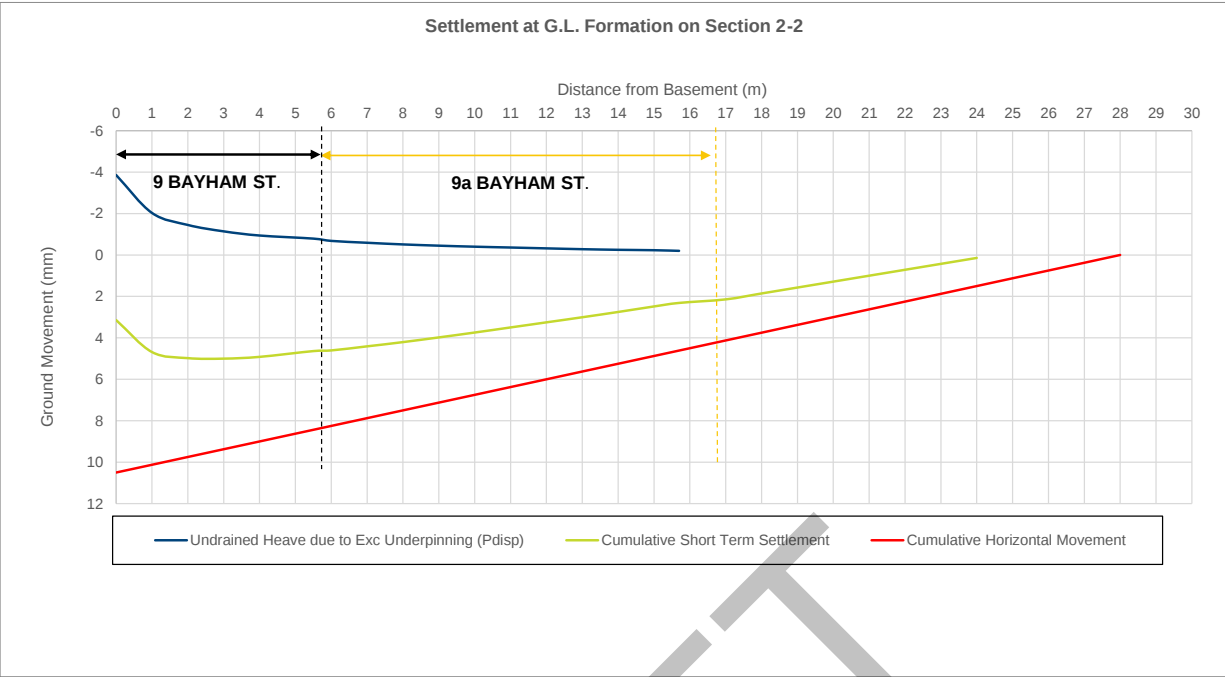
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5 Sec. 5-5	11.24	-9.9	22.97	-0.36	23	-2.00E-05	-0.1	5.20E-06
5 Sec. 5-5	11.24	-10.9	22.97	-0.32	23	-1.40E-05	-0.087	4.40E-06
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5 Sec. 5-5	11.24	-16.9	22.97	-0.16	23	-2.80E-06	-0.037	1.80E-06
5 Sec. 5-5	11.24	-17.9	22.97	-0.15	23	-2.30E-06	-0.033	1.60E-06
5 Sec. 5-5	11.24	-18.9	22.97	-0.13	23	-1.80E-06	-0.029	1.50E-06
5 Sec. 5-5	11.24	-19.9	22.97	-0.12	23	-1.50E-06	-0.026	1.30E-06
6 Sec. 6-6	23.31	0.04	22.97	-3.24	23	-1.6	-9.3	2.20E-04

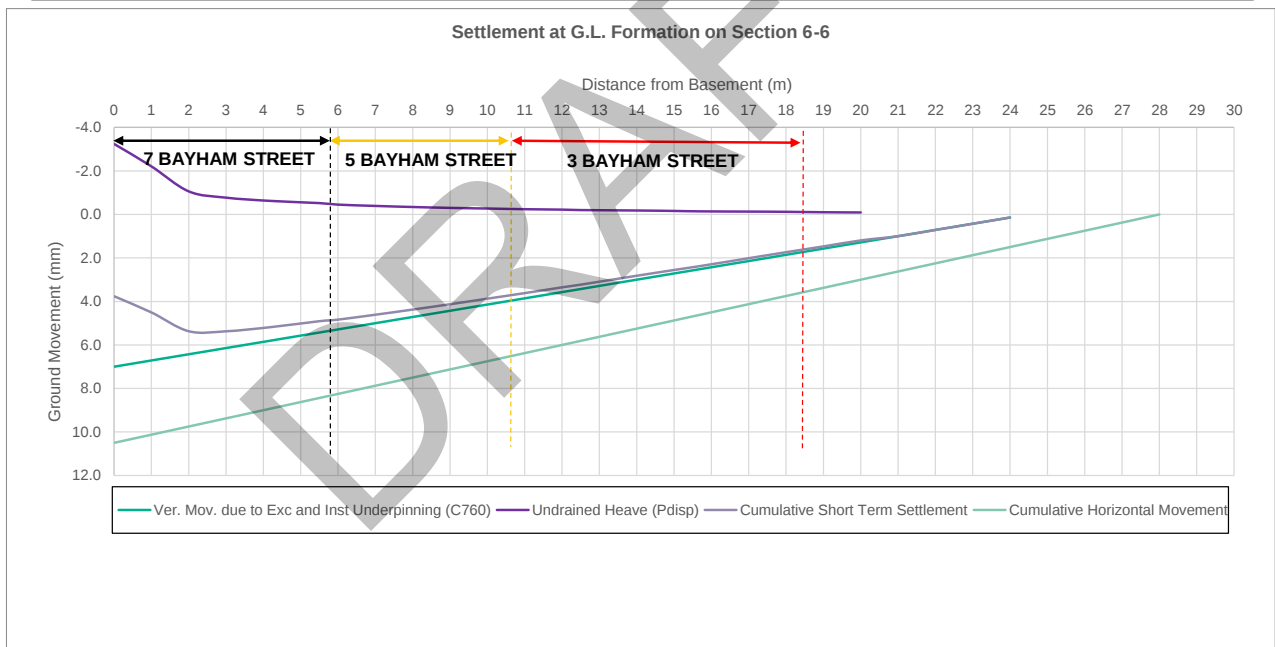
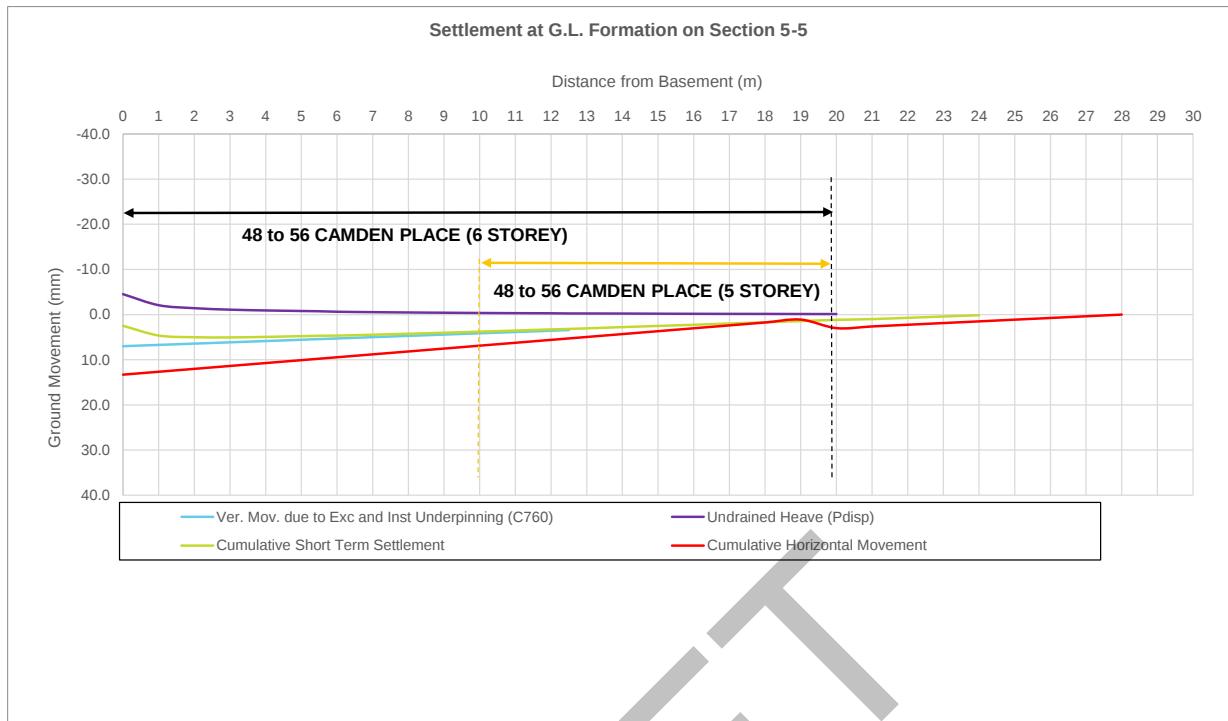
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6 Sec. 6-6	23.31	-2.87	22.97	-0.77	23	-6.10E-04	-0.42	2.10E-05
6 Sec. 6-6	23.31	-3.84	22.97	-0.62	23	-2.50E-04	-0.28	1.40E-05
6 Sec. 6-6	23.31	-4.8	22.97	-0.52	23	-1.30E-04	-0.21	1.00E-05
6 Sec. 6-6	23.31	-5.77	22.97	-0.45	23	-7.00E-05	-0.16	8.00E-06
6 Sec. 6-6	23.31	-6.74	22.97	-0.39	23	-4.30E-05	-0.13	6.40E-06
6 Sec. 6-6	23.31	-7.71	22.97	-0.34	23	-2.70E-05	-0.1	5.20E-06
6 Sec. 6-6	23.31	-8.68	22.97	-0.3	23	-1.90E-05	-0.087	4.30E-06
6 Sec. 6-6	23.31	-9.65	22.97	-0.27	23	-1.30E-05	-0.074	3.70E-06
6 Sec. 6-6	23.31	-10.61	22.97	-0.24	23	-9.50E-06	-0.063	3.20E-06
6 Sec. 6-6	23.31	-11.58	22.97	-0.22	23	-7.10E-06	-0.055	2.70E-06
6 Sec. 6-6	23.31	-12.55	22.97	-0.2	23	-5.40E-06	-0.048	2.40E-06
6 Sec. 6-6	23.31	-13.52	22.97	-0.18	23	-4.20E-06	-0.042	2.10E-06
6 Sec. 6-6	23.31	-14.49	22.97	-0.16	23	-3.30E-06	-0.037	1.90E-06
6 Sec. 6-6	23.31	-15.45	22.97	-0.14	23	-2.60E-06	-0.033	1.70E-06
6 Sec. 6-6	23.31	-16.42	22.97	-0.13	23	-2.10E-06	-0.03	1.50E-06
6 Sec. 6-6	23.31	-17.39	22.97	-0.12	23	-1.70E-06	-0.027	1.30E-06
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6 Sec. 6-6	23.31	-19.33	22.97	-0.09	23	-1.20E-06	-0.022	1.10E-06
7 Sec. 7-7	-0.69	26.56	22.97	-4.12	23	-2.3	-12	2.50E-04
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7 Sec. 7-7	-0.69	38.56	22.97	-0.26	23	-6.20E-06	-0.058	2.90E-06
7 Sec. 7-7	-0.69	39.56	22.97	-0.24	23	-4.80E-06	-0.051	2.50E-06
7 Sec. 7-7	-0.69	40.56	22.97	-0.21	23	-3.80E-06	-0.045	2.20E-06
7 Sec. 7-7	-0.69	41.56	22.97	-0.19	23	-3.00E-06	-0.04	2.00E-06
7 Sec. 7-7	-0.69	42.56	22.97	-0.17	23	-2.50E-06	-0.036	1.80E-06
8 7BS Rear	16.15	0.15	22.97	-4.55	23	-8.9	-28	4.00E-05
8 7BS Rear	16.16	-0.96	22.97	-2.56	23	-0.023	-2.7	1.30E-04
8 7BS Rear	16.16	-2.06	22.97	-1.74	23	-0.0029	-1.1	5.50E-05
8 7BS Rear	16.17	-3.17	22.97	-1.29	23	-8.30E-04	-0.63	3.10E-05
8 7BS Rear	16.17	-4.28	22.97	-1.00	23	-3.30E-04	-0.41	2.00E-05
8 7BS Rear	16.17	-5.39	22.97	-0.81	23	-1.60E-04	-0.28	1.40E-05
8 7BS Rear	16.18	-6.49	22.97	-0.70	23	-8.40E-05	-0.21	1.00E-05
9 9BS Front	22.58	26.45	22.97	-2.62	23	-0.058	-3.1	1.50E-04
9 9BS Front	22.6	27.47	22.97	-1.22	23	-0.0039	-1.1	5.30E-05
9 9BS Front	22.61	28.5	22.97	-0.87	23	-9.10E-04	-0.59	2.90E-05

9 9BS Front	22.63	29.53	22.97	-0.7	23	-3.40E-04	-0.39	1.90E-05
9 9BS Front	22.64	30.56	22.97	-0.58	23	-1.60E-04	-0.28	1.40E-05
9 9BS Front	22.66	31.59	22.97	-0.5	23	-8.50E-05	-0.21	1.10E-05
9 9BS Front	22.67	32.62	22.97	-0.44	23	-5.10E-05	-0.17	8.20E-06
10 2KT Rear	7.59	26.52	22.97	-3.87	23	-0.016	-2.5	1.20E-04
10 2KT Rear	7.56	27.53	22.97	-2.03	23	-0.0028	-1.2	6.10E-05
10 2KT Rear	7.52	28.54	22.97	-1.46	23	-9.00E-04	-0.76	3.80E-05
10 2KT Rear	7.49	29.55	22.97	-1.15	23	-3.90E-04	-0.52	2.60E-05
10 2KT Rear	7.45	30.56	22.97	-0.94	23	-2.00E-04	-0.38	1.90E-05
10 2KT Rear	7.41	31.57	22.97	-0.79	23	-1.20E-04	-0.29	1.50E-05
10 2KT Rear	7.38	32.58	22.97	-0.68	23	-7.20E-05	-0.23	1.10E-05
11 2aKT Front	-0.92	26.57	22.97	-3.76	23	-1.2	-7.9	2.20E-04
11 2aKT Front	-1.62	26.32	22.97	-2.17	23	-0.049	-2.4	1.10E-04
11 2aKT Front	-2.31	26.07	22.97	-1.52	23	-0.0072	-1.2	6.00E-05
11 2aKT Front	-3.01	25.83	22.97	-1.21	23	-0.0022	-0.78	3.80E-05
11 2aKT Front	-3.7	25.58	22.97	-1.01	23	-9.20E-04	-0.55	2.80E-05
12 2aKT Rear	-0.57	16.43	22.97	-4.03	23	-10	-29	-2.90E-05
12 2aKT Rear	-1.61	16.36	22.97	-1.63	23	-0.029	-3.1	1.50E-04
12 2aKT Rear	-2.64	16.29	22.97	-1.13	23	-0.0037	-1.4	6.80E-05
12 2aKT Rear	-3.67	16.21	22.97	-0.9	23	-0.0011	-0.8	4.00E-05
12 2aKT Rear	-4.71	16.14	22.97	-0.75	23	-4.40E-04	-0.54	2.70E-05

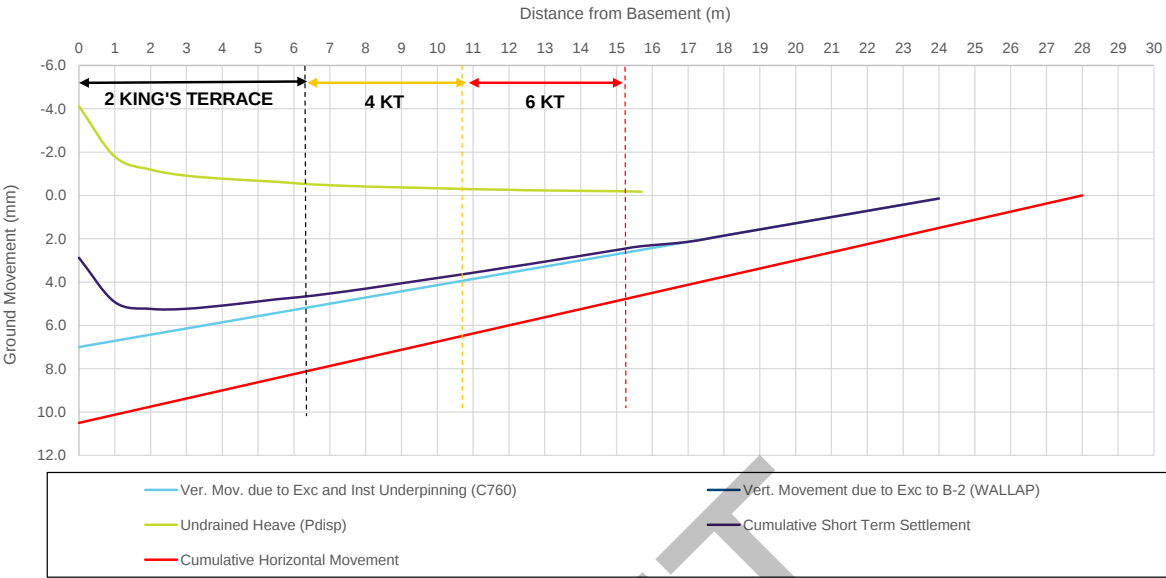
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Settlement at G.L. Formation on Section 7-7



Appendix C

Analysis of Lower Ground Floor Excavation

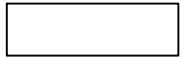
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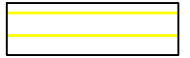
Underpinning



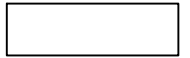
Demolition



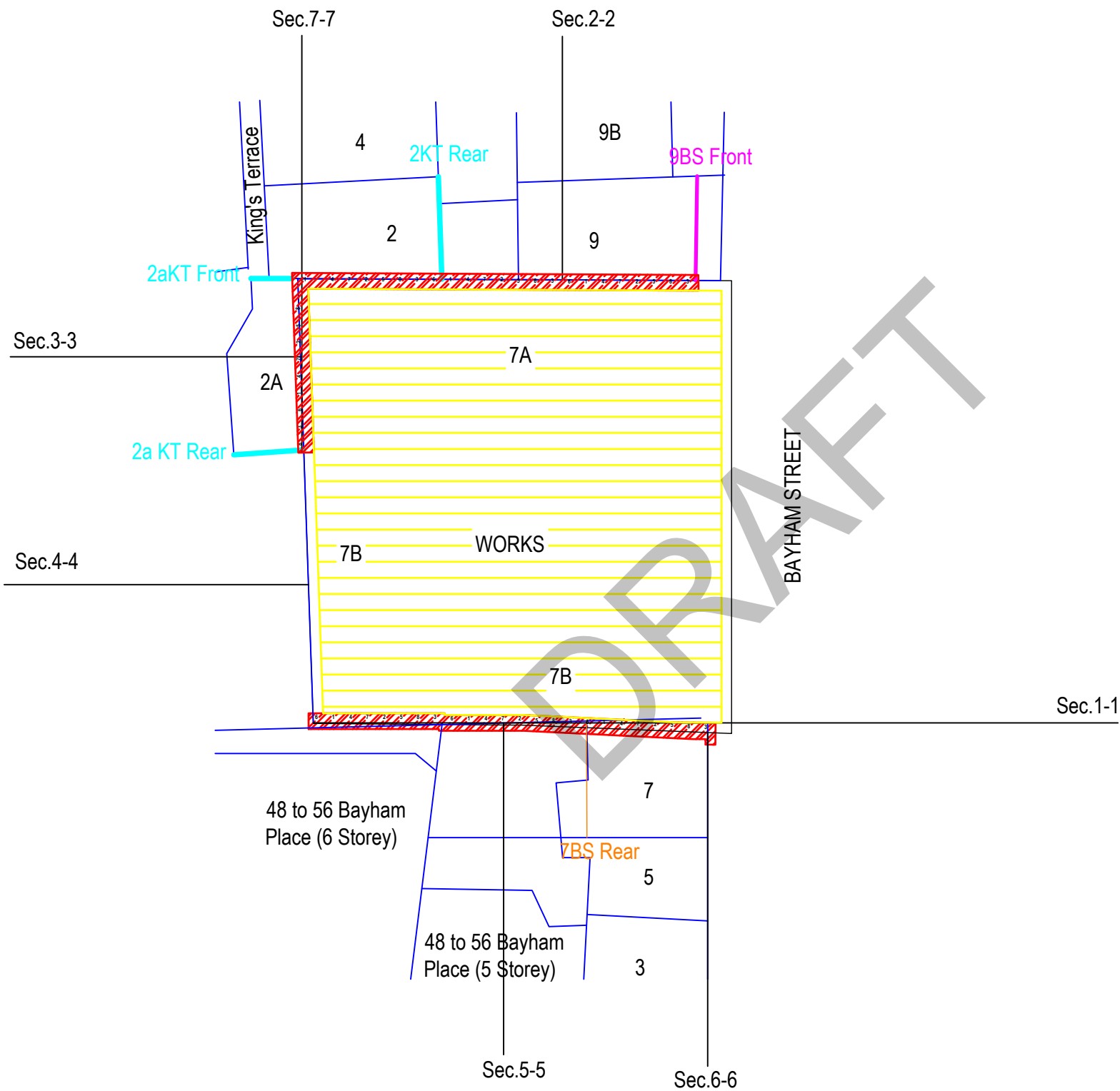
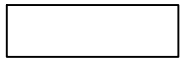
LGF
Excavation



B-2
Excavation

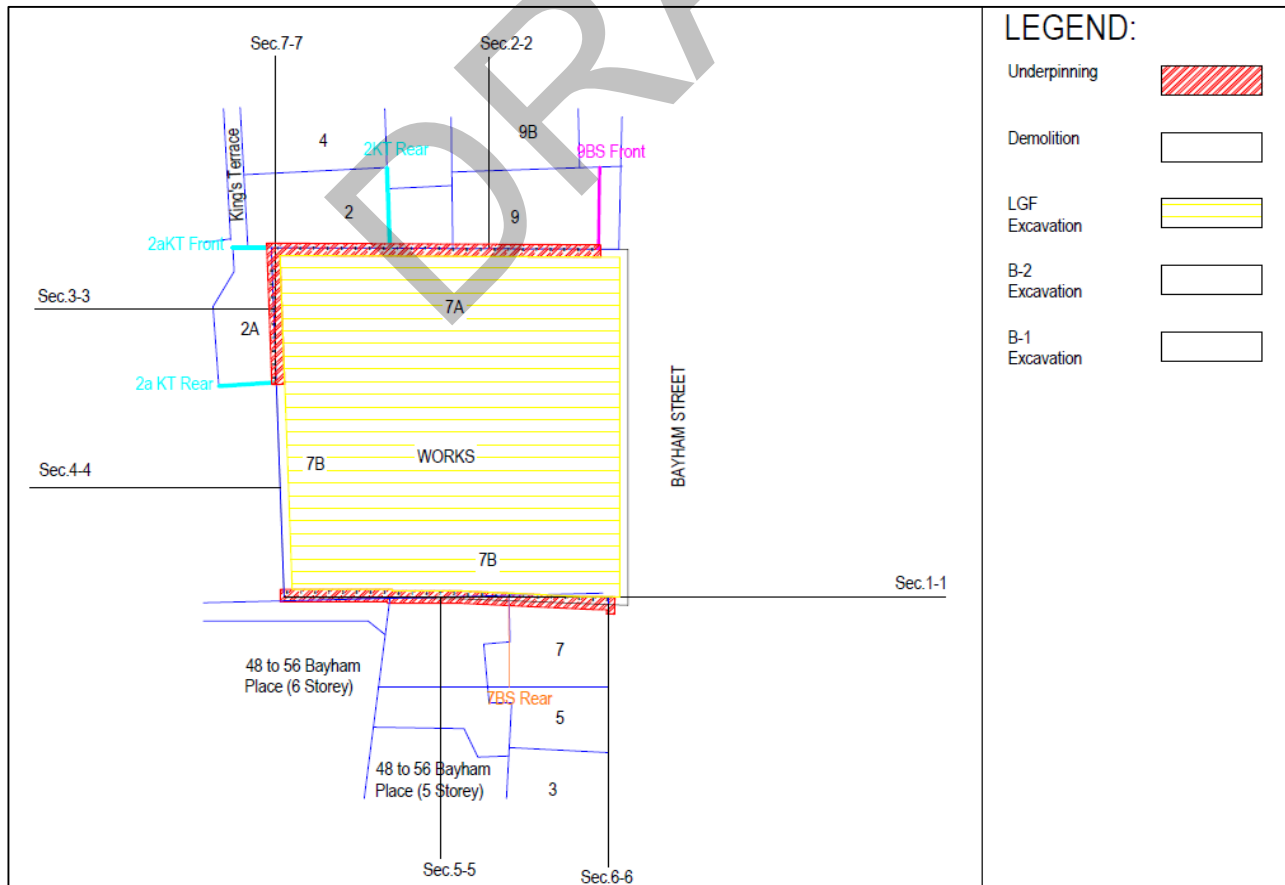


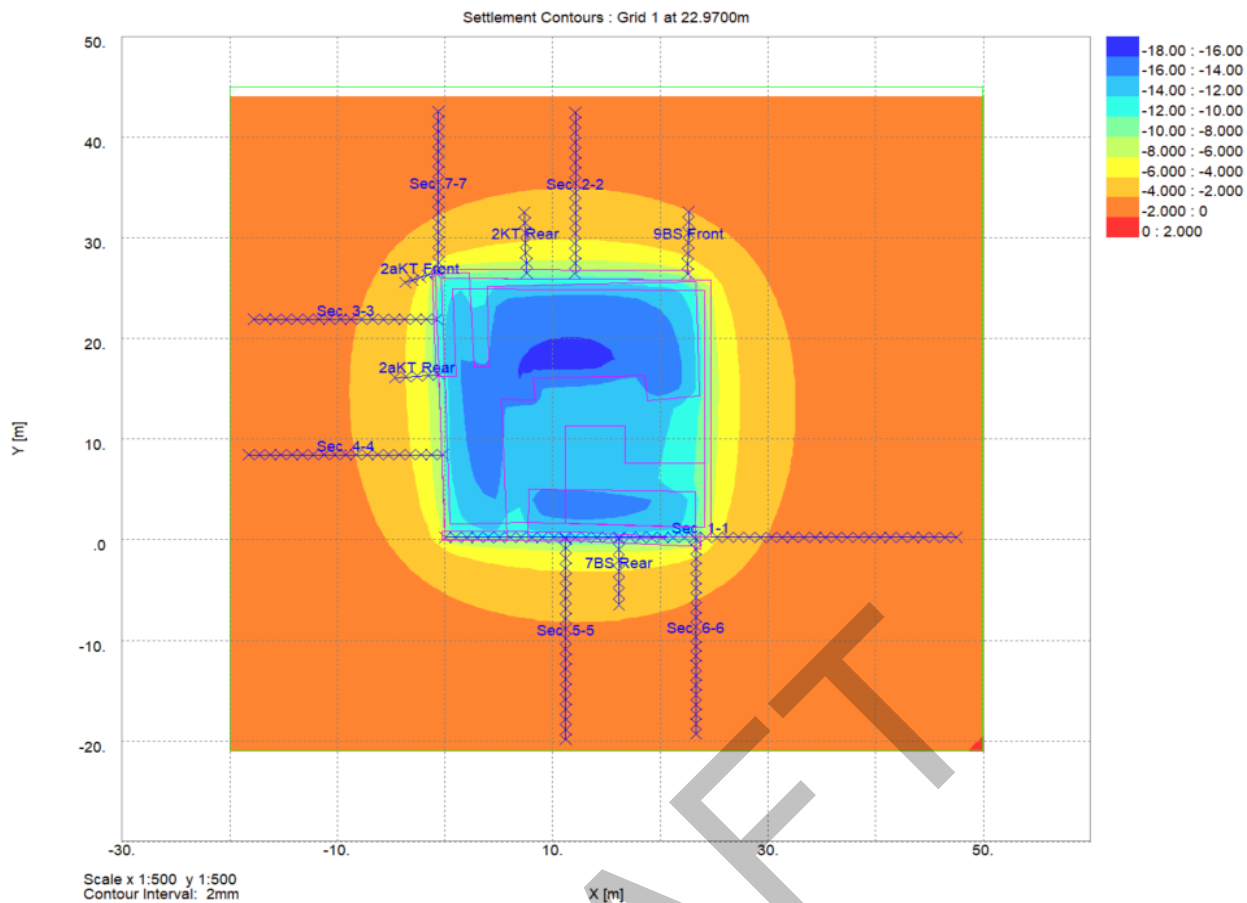
B-1
Excavation



Summary of damage assessment- LGF excavation_ Eu=600Cu

Property	Façade Dimensions, L/H	Maximum Deflection (mm)	Net Horizontal Movement (mm)	Deflection Ratio Δ/L (%)	Horizontal Strain ϵ_h (%)	Damage Category
9 Bayham St.	5.5/9.0	-3.86	0.56	0.070	0.010	1
9a Bayham St.	10.2/11.0	1.04	3.83	0.010	0.038	0
48 to 56 Bayham Place - 6 Storey	20.0/18.0	-2.47	6.00	0.012	0.030	0
48 to 56 Bayham Place - 5 Storey	15.0/10.0	1.95	3.75	0.013	0.025	0
7 Bayham St. Rear (at Basement formation level 20.47m AOD)	6.0/14.5	-5.05	0.47	0.084	0.008	2
7 Bayham St. Front (at Ground Level 22.97m AOD)	6.0/14.5	-3.32	1.88	0.055	0.013	1
5 Bayham St.	5.0/11.5	0.70	1.88	0.014	0.038	0
3 Bayham St.	7.5/11.5	1.74	3.00	0.022	0.038	0
2 King's Terrace Rear	6.0/8.5	0.02	2.25	0.025	0.038	0
2 King's Terrace Front	6.2/8.5	-2.64	0.82	0.048	0.015	1
4 King's Terrace	4.7/8.5	0.68	1.76	0.012	0.032	0
2a King's Terrace Front	2.8/6.0	-1.60	-0.46	0.057	0.016	1
2a King's Terrace Front	2.8/6.0	-1.60	-0.46	0.057	0.016	1
2a King's Terrace Rear	4.2/6.0	-4.16	0.05	0.100	0.001	2
1b King's Terrace (W-E Direction)	8.3/6.0	0.62	3.11	0.007	0.038	0
6 King's Terrace	4.3/8.5	0.92	0.92	0.023	0.040	1





Oasys Ltd.

7 Bayham Street BIA
GMA Due to Excavation
Short Term - Undrained

File 7 Bayham St. BIA Reass- LGF Exc- UDr_Red Eu.pdd
Exported 03/06/22 19:32:43

PDisp 20.0.0.12 64-bit Copyright © Oasys 1997-2019

Results : Immediate : Displacement Data : Lines

START_TABLE

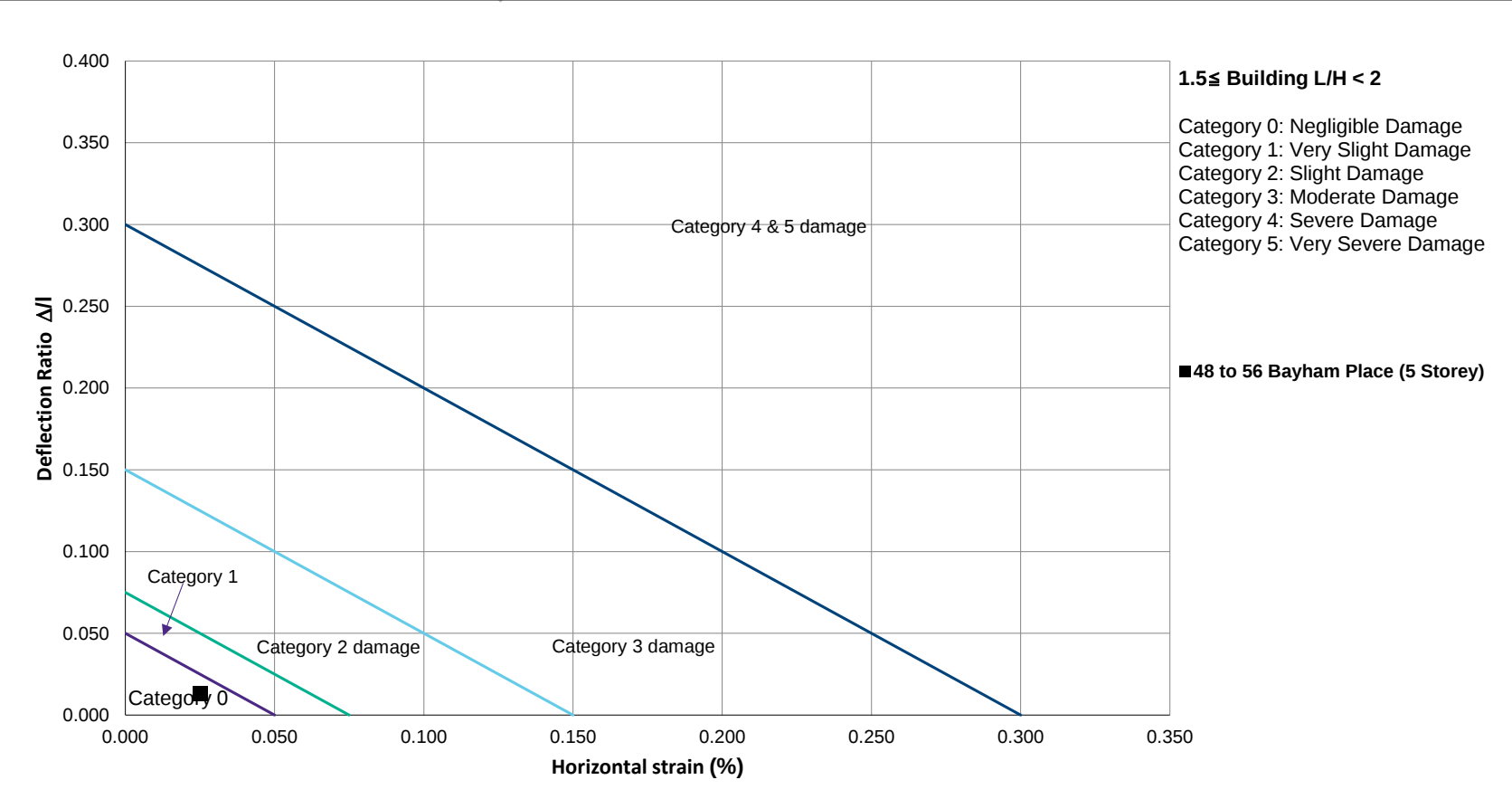
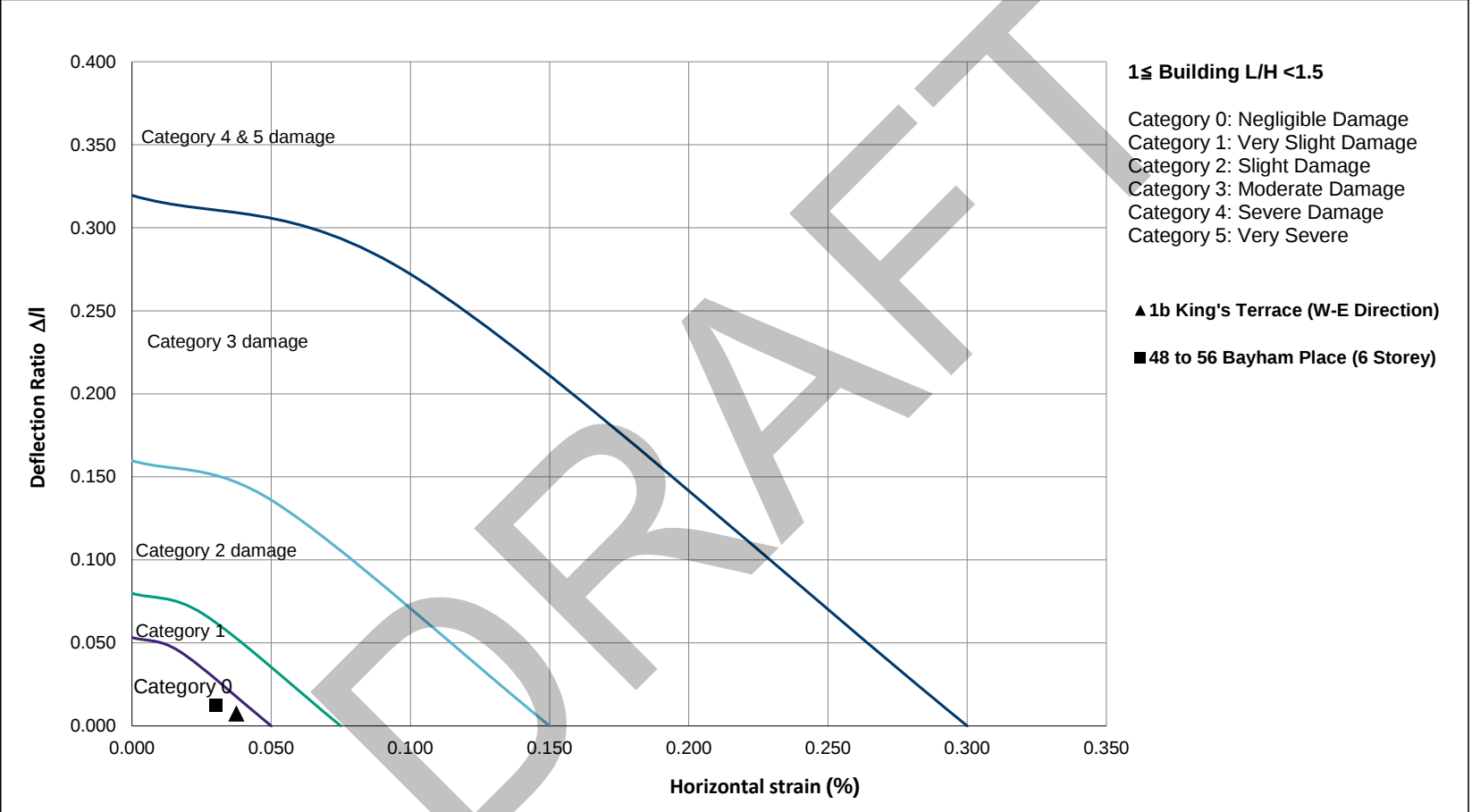
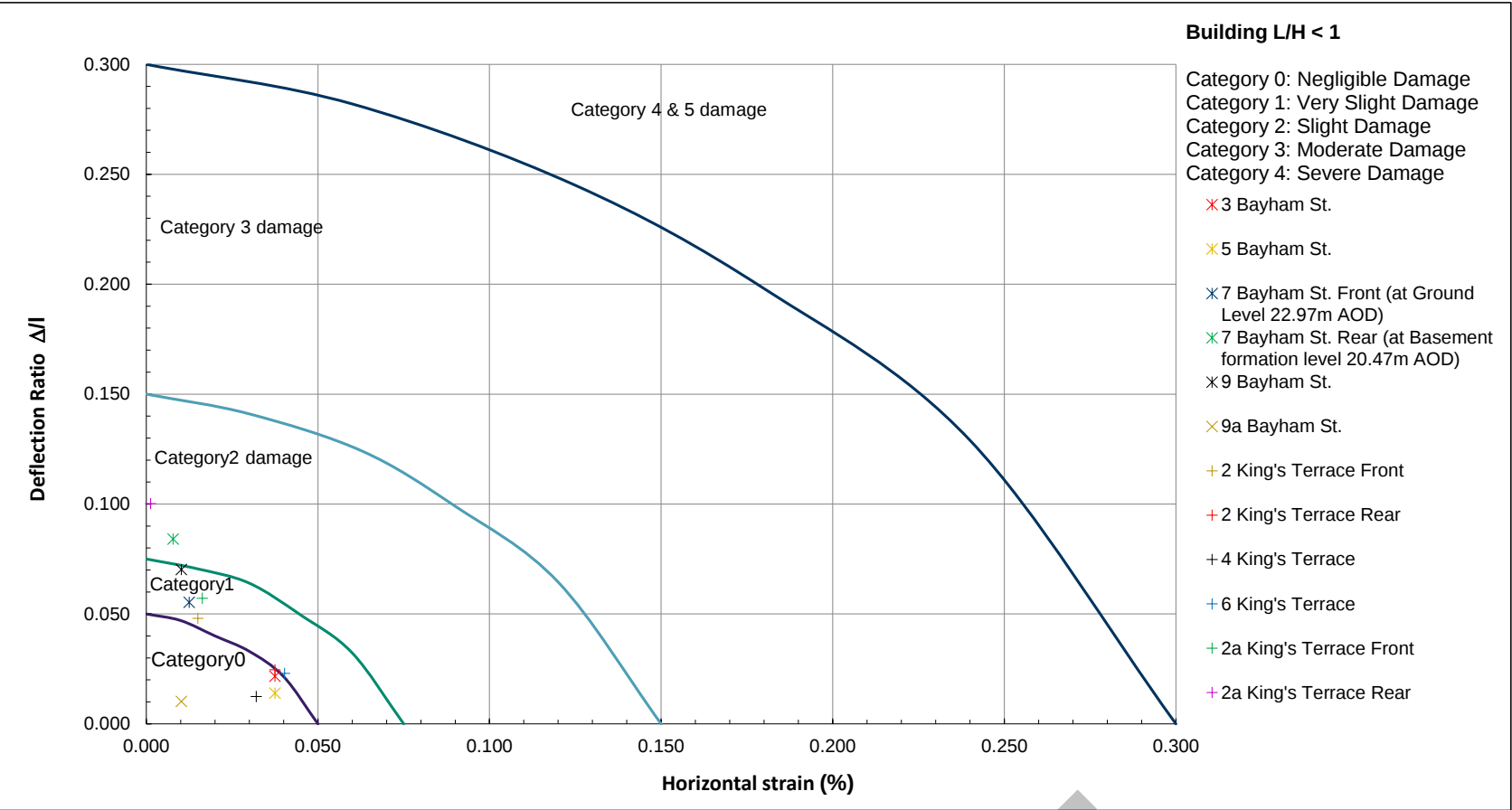
Ref.	Name	x	y	z	dz	Stress: Calc.	Stress: Vertic	Stress: Sum	Vert. Strain
		[m]	[m]	[mOD]	[mm]	[mOD]	[kN/m²]	[kN/m²]	[
1	Sec. 1-1	-0.01	0.29	22.97	-6.31	23	-9.6	-24	-2.30E-04
1	Sec. 1-1	1	0.29	22.97	-8.09	23	-19	-46	-5.70E-04
1	Sec. 1-1	2.01	0.29	22.97	-8.63	23	-19	-45	-5.40E-04
1	Sec. 1-1	3.02	0.29	22.97	-8.96	23	-18	-45	-5.20E-04
1	Sec. 1-1	4.04	0.29	22.97	-9.22	23	-19	-46	-5.40E-04
1	Sec. 1-1	5.05	0.29	22.97	-9.25	23	-19	-44	-6.10E-04
1	Sec. 1-1	6.06	0.29	22.97	-8.05	23	-0.6	-7.5	2.90E-04
1	Sec. 1-1	7.07	0.29	22.97	-7.99	23	-0.057	-3.6	1.70E-04
1	Sec. 1-1	8.08	0.29	22.97	-8.92	23	-8.8	-24	-1.30E-04
1	Sec. 1-1	9.09	0.29	22.97	-9.31	23	-10	-29	-9.00E-05
1	Sec. 1-1	10.11	0.29	22.97	-9.48	23	-11	-31	-1.50E-04
1	Sec. 1-1	11.12	0.29	22.97	-9.6	23	-12	-33	-2.20E-04
1	Sec. 1-1	12.13	0.29	22.97	-9.69	23	-13	-34	-2.90E-04
1	Sec. 1-1	13.14	0.29	22.97	-9.76	23	-14	-36	-3.50E-04
1	Sec. 1-1	14.15	0.29	22.97	-9.89	23	-15	-37	-4.00E-04
1	Sec. 1-1	15.16	0.29	22.97	-9.96	23	-16	-39	-4.40E-04
1	Sec. 1-1	16.18	0.29	22.97	-9.98	23	-16	-40	-4.80E-04
1	Sec. 1-1	17.19	0.29	22.97	-9.98	23	-17	-41	-5.00E-04
1	Sec. 1-1	18.2	0.29	22.97	-9.93	23	-17	-42	-5.10E-04
1	Sec. 1-1	19.21	0.29	22.97	-9.85	23	-18	-43	-5.30E-04
1	Sec. 1-1	20.22	0.29	22.97	-9.9	23	-18	-44	-5.40E-04
1	Sec. 1-1	21.23	0.29	22.97	-9.68	23	-18	-44	-5.50E-04
1	Sec. 1-1	22.25	0.29	22.97	-9.05	23	-19	-44	-6.00E-04
1	Sec. 1-1	23.26	0.29	22.97	-7.36	23	-6.3	-19	7.70E-06
1	Sec. 1-1	24.27	0.29	22.97	-5.07	23	-0.018	-1.7	8.20E-05
1	Sec. 1-1	25.28	0.29	22.97	-3.58	23	-0.0022	-0.69	3.40E-05
1	Sec. 1-1	26.29	0.29	22.97	-2.85	23	-5.80E-04	-0.39	1.90E-05
1	Sec. 1-1	27.3	0.29	22.97	-2.39	23	-2.20E-04	-0.25	1.30E-05
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1	Sec. 1-1	37.42	0.29	22.97	-0.76	23	-2.90E-06	-0.036	1.80E-06
1	Sec. 1-1	38.43	0.29	22.97	-0.69	23	-2.30E-06	-0.032	1.60E-06
1	Sec. 1-1	39.44	0.29	22.97	-0.62	23	-1.90E-06	-0.029	1.50E-06

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1 Sec. 1-1	43.49	0.29	22.97	-0.41	23	-8.90E-07	-0.02	9.90E-07
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1 Sec. 1-1	46.53	0.29	22.97	-0.29	23	-5.50E-07	-0.015	7.60E-07
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2 Sec. 2-2	12.12	35.5	22.97	-1.56	23	-2.50E-05	-0.13	6.60E-06
2 Sec. 2-2	12.12	36.5	22.97	-1.4	23	-1.80E-05	-0.11	5.50E-06
2 Sec. 2-2	12.12	37.5	22.97	-1.25	23	-1.30E-05	-0.093	4.70E-06
2 Sec. 2-2	12.12	38.5	22.97	-1.12	23	-9.80E-06	-0.08	4.00E-06
2 Sec. 2-2	12.12	39.5	22.97	-1	23	-7.50E-06	-0.069	3.40E-06
2 Sec. 2-2	12.12	40.5	22.97	-0.9	23	-5.80E-06	-0.06	3.00E-06
2 Sec. 2-2	12.12	41.5	22.97	-0.81	23	-4.60E-06	-0.052	2.60E-06
2 Sec. 2-2	12.12	42.5	22.97	-0.73	23	-3.60E-06	-0.046	2.30E-06
3 Sec. 3-3	-0.77	21.93	22.97	-8.58	23	-10	-29	-4.50E-05
3 Sec. 3-3	-1.77	21.93	22.97	-5.03	23	-0.032	-3	1.50E-04
3 Sec. 3-3	-2.77	21.93	22.97	-3.82	23	-0.004	-1.3	6.30E-05
3 Sec. 3-3	-3.77	21.93	22.97	-3.12	23	-0.0011	-0.73	3.60E-05
3 Sec. 3-3	-4.77	21.93	22.97	-2.64	23	-4.40E-04	-0.48	2.40E-05
3 Sec. 3-3	-5.77	21.93	22.97	-2.27	23	-2.10E-04	-0.34	1.70E-05
3 Sec. 3-3	-6.77	21.93	22.97	-1.98	23	-1.10E-04	-0.25	1.30E-05
3 Sec. 3-3	-7.77	21.93	22.97	-1.74	23	-6.70E-05	-0.2	9.90E-06
3 Sec. 3-3	-8.77	21.93	22.97	-1.54	23	-4.20E-05	-0.16	7.90E-06
3 Sec. 3-3	-9.77	21.93	22.97	-1.38	23	-2.80E-05	-0.13	6.40E-06
3 Sec. 3-3	-10.77	21.93	22.97	-1.23	23	-1.90E-05	-0.11	5.30E-06
3 Sec. 3-3	-11.77	21.93	22.97	-1.1	23	-1.40E-05	-0.09	4.50E-06
3 Sec. 3-3	-12.77	21.93	22.97	-0.99	23	-1.00E-05	-0.077	3.80E-06
3 Sec. 3-3	-13.77	21.93	22.97	-0.89	23	-7.60E-06	-0.066	3.30E-06
3 Sec. 3-3	-14.77	21.93	22.97	-0.8	23	-5.90E-06	-0.057	2.90E-06
3 Sec. 3-3	-15.77	21.93	22.97	-0.72	23	-4.60E-06	-0.05	2.50E-06
3 Sec. 3-3	-16.77	21.93	22.97	-0.65	23	-3.60E-06	-0.044	2.20E-06
3 Sec. 3-3	-17.77	21.93	22.97	-0.59	23	-2.90E-06	-0.039	2.00E-06
4 Sec. 4-4	-0.29	8.46	22.97	-8.31	23	-10	-29	-3.30E-05
4 Sec. 4-4	-1.29	8.46	22.97	-5.17	23	-0.032	-3.2	1.60E-04
4 Sec. 4-4	-2.29	8.46	22.97	-4.07	23	-0.0041	-1.4	7.00E-05
4 Sec. 4-4	-3.29	8.46	22.97	-3.39	23	-0.0012	-0.83	4.10E-05
4 Sec. 4-4	-4.29	8.46	22.97	-2.89	23	-4.90E-04	-0.55	2.80E-05
4 Sec. 4-4	-5.29	8.46	22.97	-2.51	23	-2.40E-04	-0.4	2.00E-05
4 Sec. 4-4	-6.29	8.46	22.97	-2.19	23	-1.30E-04	-0.3	1.50E-05
4 Sec. 4-4	-7.29	8.46	22.97	-1.94	23	-8.00E-05	-0.23	1.20E-05
4 Sec. 4-4	-8.29	8.46	22.97	-1.72	23	-5.10E-05	-0.18	9.20E-06
4 Sec. 4-4	-9.29	8.46	22.97	-1.53	23	-3.40E-05	-0.15	7.50E-06
4 Sec. 4-4	-10.29	8.46	22.97	-1.37	23	-2.40E-05	-0.12	6.20E-06
4 Sec. 4-4	-11.29	8.46	22.97	-1.23	23	-1.70E-05	-0.1	5.20E-06
4 Sec. 4-4	-12.29	8.46	22.97	-1.11	23	-1.20E-05	-0.088	4.40E-06

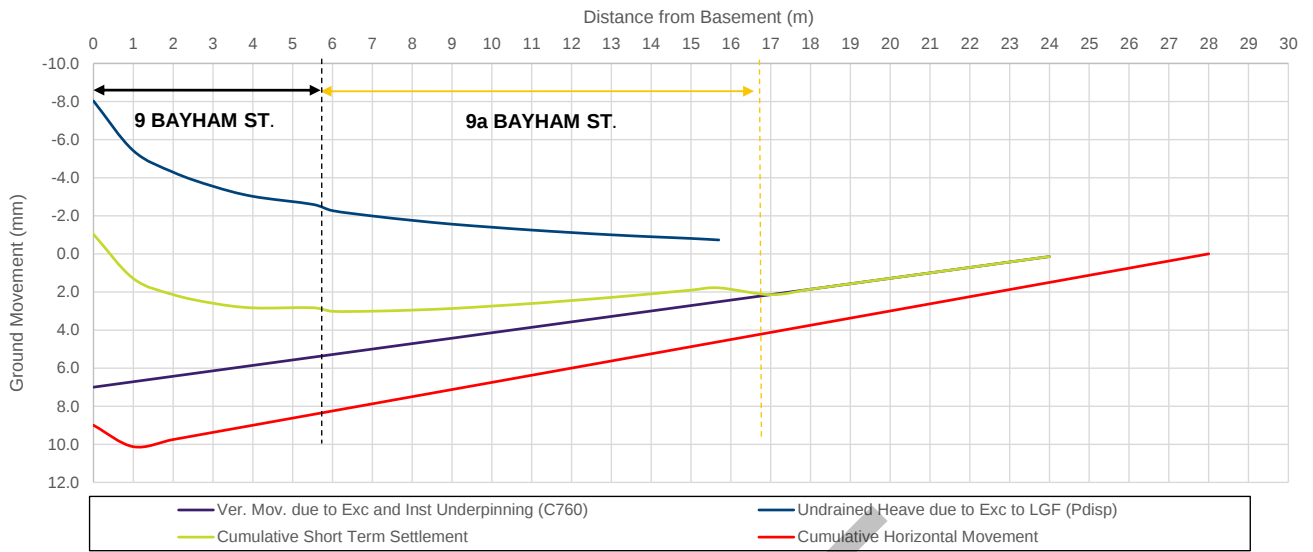
4 Sec. 4-4	-13.29	8.46	22.97	-0.99	23	-9.30E-06	-0.075	3.80E-06
4 Sec. 4-4	-14.29	8.46	22.97	-0.9	23	-7.10E-06	-0.065	3.30E-06
4 Sec. 4-4	-15.29	8.46	22.97	-0.81	23	-5.50E-06	-0.057	2.80E-06
4 Sec. 4-4	-16.3	8.46	22.97	-0.73	23	-4.30E-06	-0.05	2.50E-06
4 Sec. 4-4	-17.3	8.46	22.97	-0.65	23	-3.50E-06	-0.044	2.20E-06
4 Sec. 4-4	-18.3	8.46	22.97	-0.59	23	-2.80E-06	-0.039	1.90E-06
5 Sec. 5-5	11.24	0.1	22.97	-8.64	23	-2.9	-17	4.10E-04
5 Sec. 5-5	11.24	-0.9	22.97	-5.46	23	-0.021	-2.6	1.30E-04
5 Sec. 5-5	11.24	-1.9	22.97	-4.25	23	-0.0032	-1.2	5.80E-05
5 Sec. 5-5	11.24	-2.9	22.97	-3.51	23	-9.70E-04	-0.69	3.40E-05
5 Sec. 5-5	11.24	-3.9	22.97	-2.98	23	-4.00E-04	-0.46	2.30E-05
5 Sec. 5-5	11.24	-4.9	22.97	-2.56	23	-2.00E-04	-0.33	1.60E-05
5 Sec. 5-5	11.24	-5.9	22.97	-2.23	23	-1.10E-04	-0.25	1.20E-05
5 Sec. 5-5	11.24	-6.9	22.97	-1.96	23	-6.60E-05	-0.19	9.70E-06
5 Sec. 5-5	11.24	-7.9	22.97	-1.73	23	-4.20E-05	-0.15	7.70E-06
5 Sec. 5-5	11.24	-8.9	22.97	-1.54	23	-2.80E-05	-0.13	6.30E-06
5 Sec. 5-5	11.24	-9.9	22.97	-1.37	23	-2.00E-05	-0.1	5.20E-06
5 Sec. 5-5	11.24	-10.9	22.97	-1.23	23	-1.40E-05	-0.087	4.40E-06
5 Sec. 5-5	11.24	-11.9	22.97	-1.1	23	-1.00E-05	-0.074	3.70E-06
5 Sec. 5-5	11.24	-12.9	22.97	-0.99	23	-7.70E-06	-0.063	3.20E-06
5 Sec. 5-5	11.24	-13.9	22.97	-0.88	23	-5.90E-06	-0.055	2.70E-06
5 Sec. 5-5	11.24	-14.9	22.97	-0.79	23	-4.60E-06	-0.048	2.40E-06
5 Sec. 5-5	11.24	-15.9	22.97	-0.71	23	-3.60E-06	-0.042	2.10E-06
5 Sec. 5-5	11.24	-16.9	22.97	-0.64	23	-2.80E-06	-0.037	1.80E-06
5 Sec. 5-5	11.24	-17.9	22.97	-0.57	23	-2.30E-06	-0.033	1.60E-06
5 Sec. 5-5	11.24	-18.9	22.97	-0.51	23	-1.80E-06	-0.029	1.50E-06
5 Sec. 5-5	11.24	-19.9	22.97	-0.46	23	-1.50E-06	-0.026	1.30E-06
6 Sec. 6-6	23.31	0.04	22.97	-6.76	23	-1.6	-9.3	2.20E-04
6 Sec. 6-6	23.31	-0.93	22.97	-4.93	23	-0.015	-1.5	7.40E-05
6 Sec. 6-6	23.31	-1.9	22.97	-3.25	23	-0.0021	-0.69	3.40E-05
6 Sec. 6-6	23.31	-2.87	22.97	-2.66	23	-6.10E-04	-0.42	2.10E-05
6 Sec. 6-6	23.31	-3.84	22.97	-2.26	23	-2.50E-04	-0.28	1.40E-05
6 Sec. 6-6	23.31	-4.8	22.97	-1.96	23	-1.30E-04	-0.21	1.00E-05
6 Sec. 6-6	23.31	-5.77	22.97	-1.73	23	-7.00E-05	-0.16	8.00E-06
6 Sec. 6-6	23.31	-6.74	22.97	-1.54	23	-4.30E-05	-0.13	6.40E-06
6 Sec. 6-6	23.31	-7.71	22.97	-1.37	23	-2.70E-05	-0.1	5.20E-06
6 Sec. 6-6	23.31	-8.68	22.97	-1.23	23	-1.90E-05	-0.087	4.30E-06
6 Sec. 6-6	23.31	-9.65	22.97	-1.11	23	-1.30E-05	-0.074	3.70E-06
6 Sec. 6-6	23.31	-10.61	22.97	-1	23	-9.50E-06	-0.063	3.20E-06
6 Sec. 6-6	23.31	-11.58	22.97	-0.9	23	-7.10E-06	-0.055	2.70E-06
6 Sec. 6-6	23.31	-12.55	22.97	-0.82	23	-5.40E-06	-0.048	2.40E-06
6 Sec. 6-6	23.31	-13.52	22.97	-0.74	23	-4.20E-06	-0.042	2.10E-06
6 Sec. 6-6	23.31	-14.49	22.97	-0.67	23	-3.30E-06	-0.037	1.90E-06
6 Sec. 6-6	23.31	-15.45	22.97	-0.61	23	-2.60E-06	-0.033	1.70E-06
6 Sec. 6-6	23.31	-16.42	22.97	-0.55	23	-2.10E-06	-0.03	1.50E-06
6 Sec. 6-6	23.31	-17.39	22.97	-0.49	23	-1.70E-06	-0.027	1.30E-06
6 Sec. 6-6	23.31	-18.36	22.97	-0.45	23	-1.40E-06	-0.024	1.20E-06
6 Sec. 6-6	23.31	-19.33	22.97	-0.4	23	-1.20E-06	-0.022	1.10E-06
7 Sec. 7-7	-0.69	26.56	22.97	-6	23	-2.3	-12	2.50E-04
7 Sec. 7-7	-0.69	27.56	22.97	-3.61	23	-0.013	-1.5	7.20E-05
7 Sec. 7-7	-0.69	28.56	22.97	-2.82	23	-0.0017	-0.66	3.30E-05
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7 Sec. 7-7	-0.69	31.56	22.97	-1.79	23	-9.70E-05	-0.21	1.00E-05
7 Sec. 7-7	-0.69	32.56	22.97	-1.59	23	-5.50E-05	-0.16	8.00E-06
7 Sec. 7-7	-0.69	33.56	22.97	-1.42	23	-3.40E-05	-0.13	6.50E-06

7 Sec. 7-7	-0.69	34.56	22.97	-1.27	23	-2.20E-05	-0.11	5.40E-06
7 Sec. 7-7	-0.69	35.56	22.97	-1.14	23	-1.50E-05	-0.091	4.50E-06
7 Sec. 7-7	-0.69	36.56	22.97	-1.03	23	-1.10E-05	-0.077	3.90E-06
7 Sec. 7-7	-0.69	37.56	22.97	-0.93	23	-8.20E-06	-0.067	3.30E-06
7 Sec. 7-7	-0.69	38.56	22.97	-0.84	23	-6.20E-06	-0.058	2.90E-06
7 Sec. 7-7	-0.69	39.56	22.97	-0.76	23	-4.80E-06	-0.051	2.50E-06
7 Sec. 7-7	-0.69	40.56	22.97	-0.69	23	-3.80E-06	-0.045	2.20E-06
7 Sec. 7-7	-0.69	41.56	22.97	-0.62	23	-3.00E-06	-0.04	2.00E-06
7 Sec. 7-7	-0.69	42.56	22.97	-0.56	23	-2.50E-06	-0.036	1.80E-06
8 7BS Rear	16.15	0.15	20.47	-8.89	20	-9.3	-20	-1.20E-04
8 7BS Rear	16.16	-0.96	20.47	-5.89	20	-4.9	-14	-1.20E-05
8 7BS Rear	16.16	-2.06	20.47	-4.47	20	-2.2	-9.3	3.80E-05
8 7BS Rear	16.17	-3.17	20.47	-3.58	20	-1	-6.3	4.70E-05
8 7BS Rear	16.17	-4.28	20.47	-2.95	20	-0.53	-4.5	4.30E-05
8 7BS Rear	16.17	-5.39	20.47	-2.49	20	-0.29	-3.3	3.60E-05
8 7BS Rear	16.18	-6.49	20.47	-2.13	20	-0.17	-2.5	3.00E-05
9 9BS Front	22.58	26.45	22.97	-6.11	23	-0.058	-3.1	1.50E-04
9 9BS Front	22.6	27.47	22.97	-3.92	23	-0.0039	-1.1	5.30E-05
9 9BS Front	22.61	28.5	22.97	-3.1	23	-9.10E-04	-0.59	2.90E-05
9 9BS Front	22.63	29.53	22.97	-2.59	23	-3.40E-04	-0.39	1.90E-05
9 9BS Front	22.64	30.56	22.97	-2.21	23	-1.60E-04	-0.28	1.40E-05
9 9BS Front	22.66	31.59	22.97	-1.93	23	-8.50E-05	-0.21	1.10E-05
9 9BS Front	22.67	32.62	22.97	-1.69	23	-5.10E-05	-0.17	8.20E-06
10 2KT Rear	7.59	26.52	22.97	-7.83	23	-0.016	-2.5	1.20E-04
10 2KT Rear	7.56	27.53	22.97	-5.25	23	-0.0028	-1.2	6.10E-05
10 2KT Rear	7.52	28.54	22.97	-4.13	23	-9.00E-04	-0.76	3.80E-05
10 2KT Rear	7.49	29.55	22.97	-3.41	23	-3.90E-04	-0.52	2.60E-05
10 2KT Rear	7.45	30.56	22.97	-2.89	23	-2.00E-04	-0.38	1.90E-05
10 2KT Rear	7.41	31.57	22.97	-2.49	23	-1.20E-04	-0.29	1.50E-05
10 2KT Rear	7.38	32.58	22.97	-2.16	23	-7.20E-05	-0.23	1.10E-05
11 2aKT Front	-0.92	26.57	22.97	-5.58	23	-1.2	-7.9	2.20E-04
11 2aKT Front	-1.62	26.32	22.97	-4.01	23	-0.049	-2.4	1.10E-04
11 2aKT Front	-2.31	26.07	22.97	-3.31	23	-0.0072	-1.2	6.00E-05
11 2aKT Front	-3.01	25.83	22.97	-2.9	23	-0.0022	-0.78	3.80E-05
11 2aKT Front	-3.7	25.58	22.97	-2.6	23	-9.20E-04	-0.55	2.80E-05
12 2aKT Rear	-0.57	16.43	22.97	-8.88	23	-10	-29	-2.90E-05
12 2aKT Rear	-1.61	16.36	22.97	-5.34	23	-0.029	-3.1	1.50E-04
12 2aKT Rear	-2.64	16.29	22.97	-4.15	23	-0.0037	-1.4	6.80E-05
12 2aKT Rear	-3.67	16.21	22.97	-3.43	23	-0.0011	-0.8	4.00E-05
12 2aKT Rear	-4.71	16.14	22.97	-2.92	23	-4.40E-04	-0.54	2.70E-05

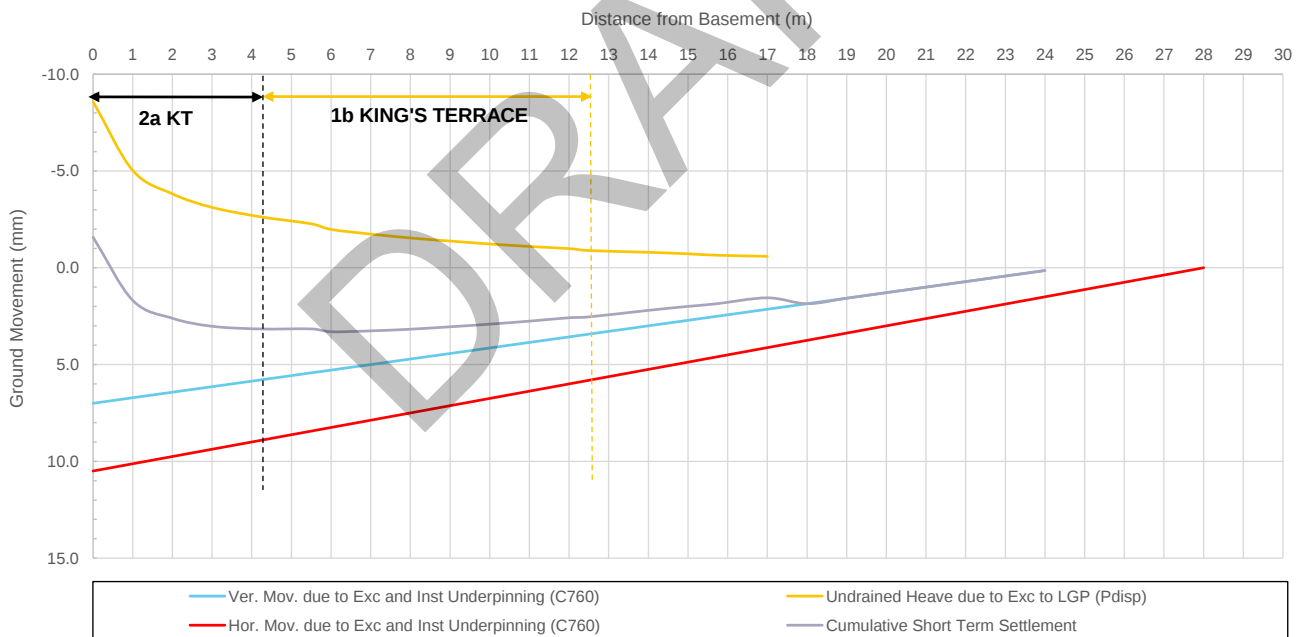
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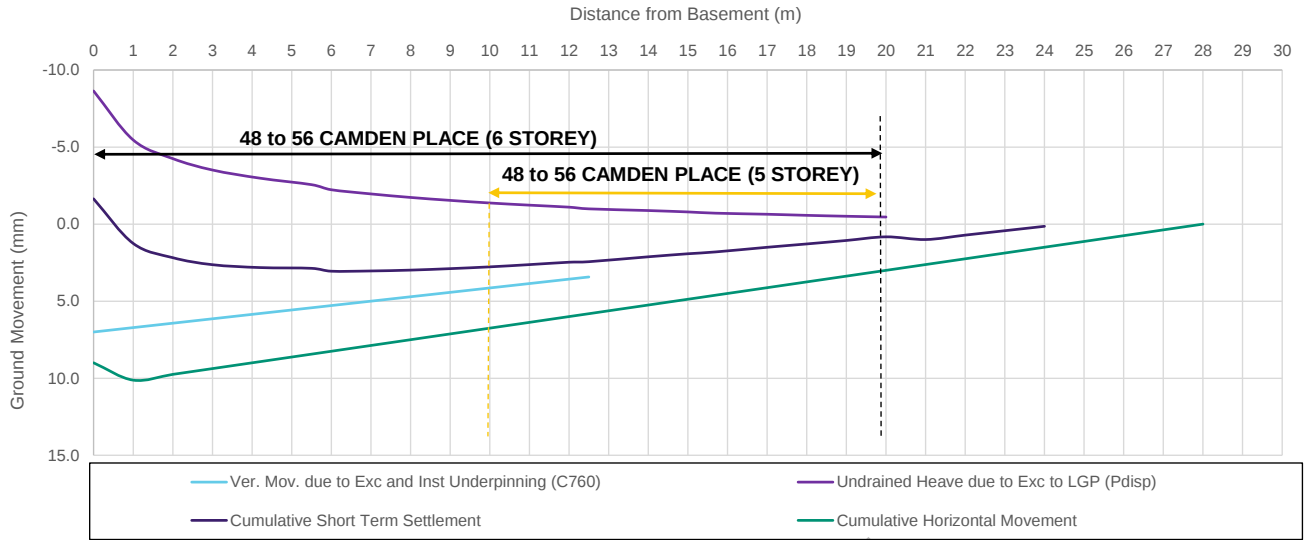
Settlement at G.L. Formation on Section 2-2



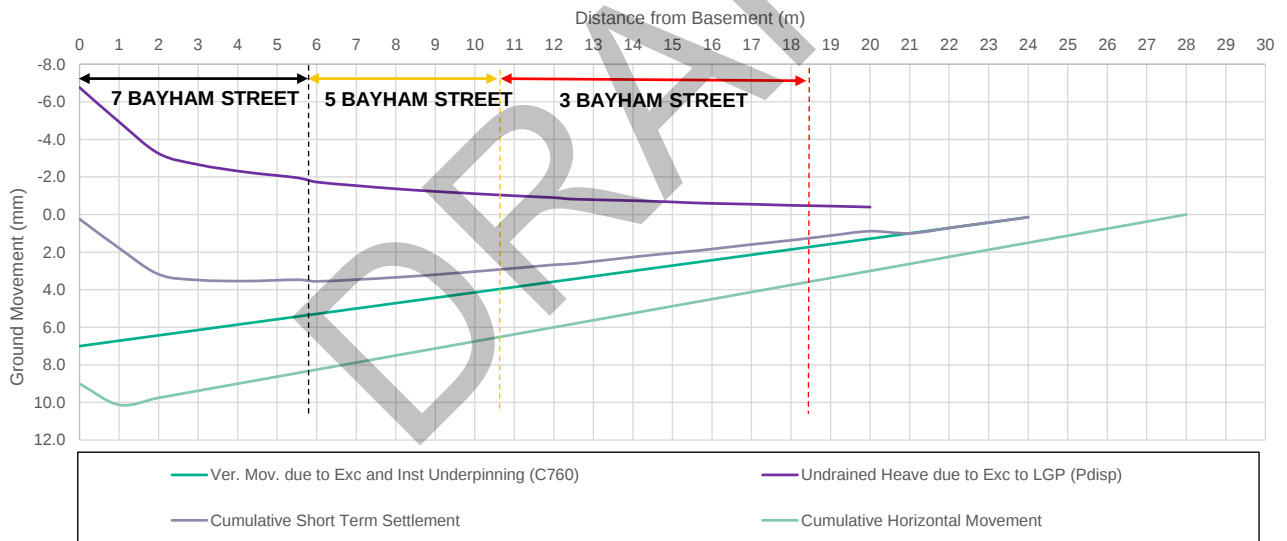
Settlement at G.L. Formation on Section 3-3



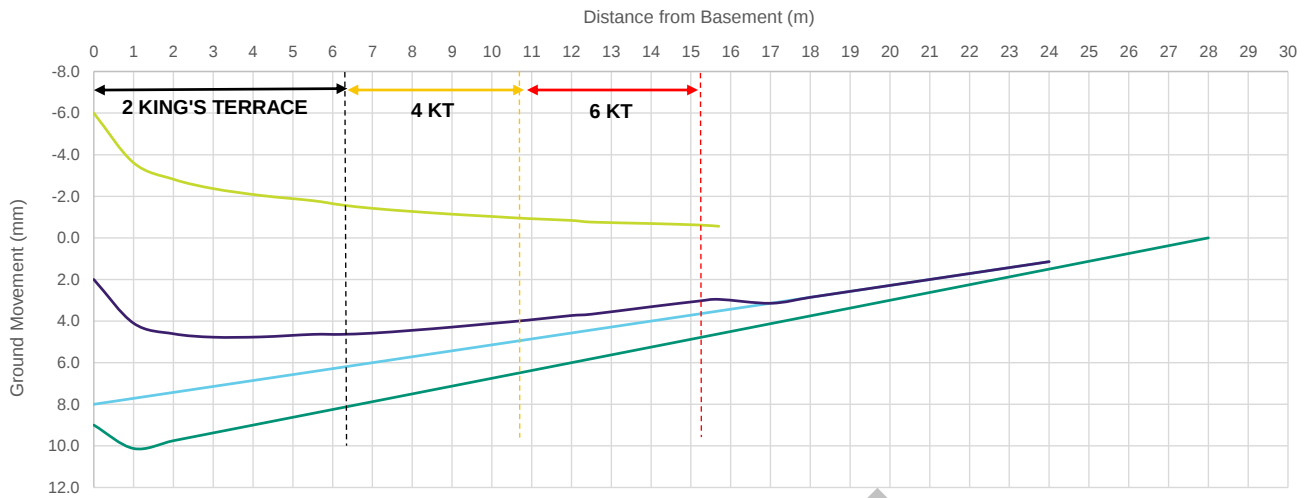
Settlement at G.L. Formation on Section 5-5



Settlement at G.L. Formation on Section 6-6



Settlement at G.L. Formation on Section 7-7



Ver. Mov. due to Exc and Inst Underpinning (C760)

Cumulative Short Term Settlement

Undrained Heave due to Exc to LGP (Pdissp)

Cumulative Horizontal Movement

DRAFT

Appendix D

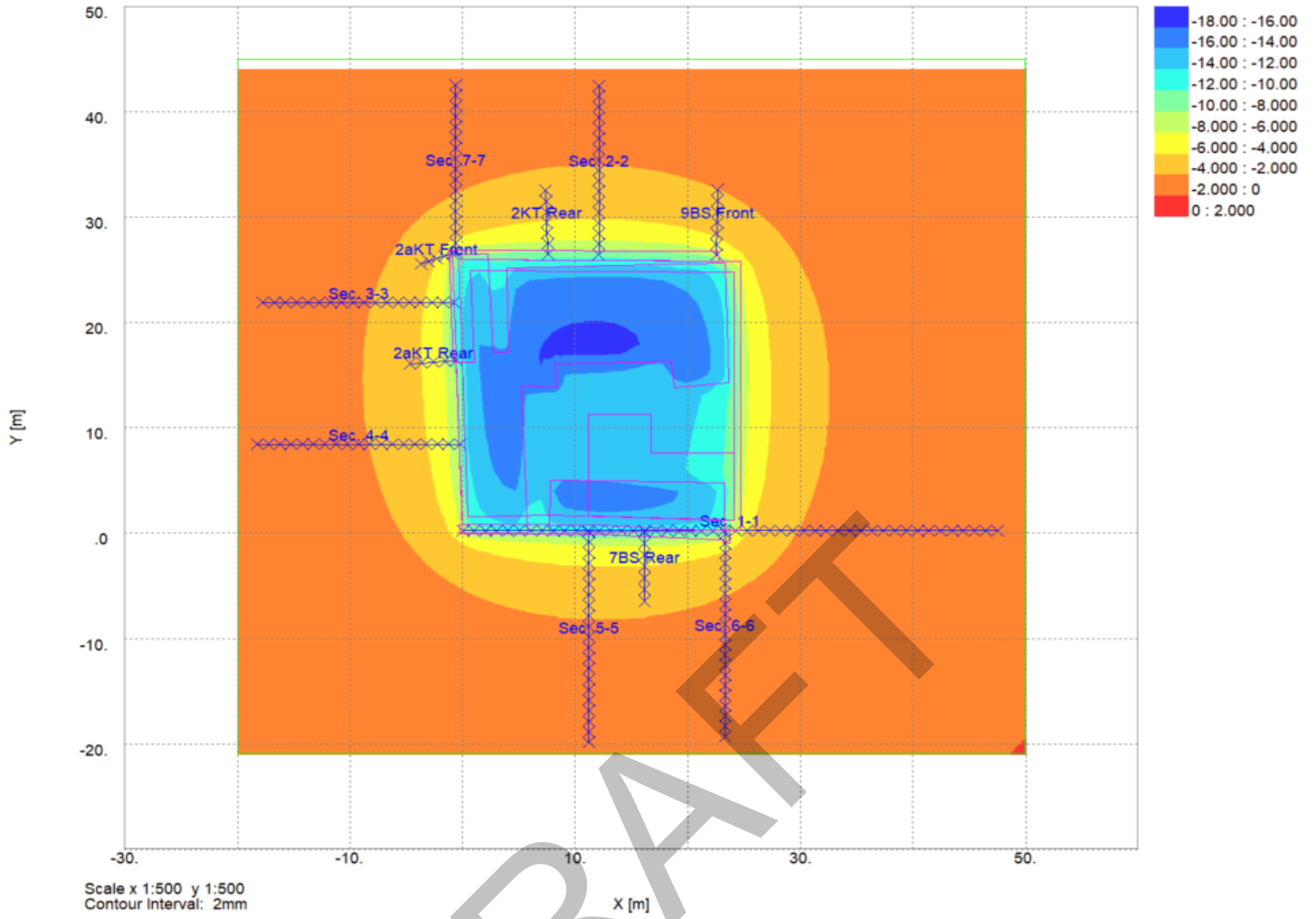
Analysis of Contiguous Pile Installation

DRAFT

Summary of Damage Assessment- Contiguous Pile Installation

Property	Façade Dimensions, L/H	Maximum Deflection (mm)	Net Horizontal Movement (mm)	Deflection Ratio Δ/L (%)	Horizontal Strain ϵ_h (%)	Damage Category
9 Bayham St. Front	6.2/9.1	1.0	4.2	0.016	0.067	1
9 Bayham St. Rear	5.5/9.0	-2.8	1.5	0.050	0.028	1
9a Bayham St.	10.2/11.0	3.1	5.6	0.030	0.054	1
2a King's Terrace Front	2.8/6.0	-1.6	-0.2	0.057	0.008	1
2a King's Terrace Rear	4.2/6.0	-3.3	1.2	0.080	0.028	1
2a King's Terrace	4.2/6.0	-3.9	0.7	0.093	0.017	2
1b King's Terrace	8.3/6.0	2.0	4.7	0.024	0.056	1
48 to 56 Bayham Place - 6 Storey	20.0/18.0	0.7	8.7	0.004	0.044	0
48 to 56 Bayham Place - 5 Storey	15.0/10.0	3.1	4.3	0.021	0.029	0
7 Bayham St. Rear (at Basement formation level 20.47m AOD)	6.0/14.5	-2.1	2.3	0.036	0.038	1
7 Bayham St. Front (at Ground Level 22.97m AOD)	6.0/14.5	-2.1	2.9	0.035	0.039	0
5 Bayham St.	5.0/11.5	1.5	2.9	0.029	0.058	1
3 Bayham St.	7.5/11.5	3.0	3.6	0.037	0.045	1
2 King's Terrace Rear	6.0/8.5	0.0	2.3	0.025	0.038	0
2 King's Terrace Front	6.2/8.5	-1.4	2.5	0.025	0.045	1
4 King's Terrace	4.7/8.5	1.6	3.0	0.030	0.055	0
6 King's Terrace	4.3/8.5	1.8	1.8	0.044	0.048	1

Settlement Contours : Grid 1 at 22.9700m



Oasys Ltd.

7 Bayham Street BIA
GMA Due to Excavation
Short Term - Undrained

File 7 Bayham St. BIA Reass- LGF Exc- UDr_Red Eu.pdd
Exported 03/06/22 19:32:43

PDisp 20.0.0.12 64-bit Copyright © Oasys 1997-2019

Results : Immediate : Displacement Data : Lines

START_TABLE

Ref.	Name	x [m]	y [m]	z [mOD]	dz [mm]	Stress: Calc. [mOD]	Stress: Vertic [kN/m²]	Stress: Sum [kN/m²]	Vert. Strain [
1	Sec. 1-1	-0.01	0.29	22.97	-6.31	23	-9.6	-24	-2.30E-04
1	Sec. 1-1	1	0.29	22.97	-8.09	23	-19	-46	-5.70E-04
1	Sec. 1-1	2.01	0.29	22.97	-8.63	23	-19	-45	-5.40E-04
1	Sec. 1-1	3.02	0.29	22.97	-8.96	23	-18	-45	-5.20E-04
1	Sec. 1-1	4.04	0.29	22.97	-9.22	23	-19	-46	-5.40E-04
1	Sec. 1-1	5.05	0.29	22.97	-9.25	23	-19	-44	-6.10E-04
1	Sec. 1-1	6.06	0.29	22.97	-8.05	23	-0.6	-7.5	2.90E-04
1	Sec. 1-1	7.07	0.29	22.97	-7.99	23	-0.057	-3.6	1.70E-04
1	Sec. 1-1	8.08	0.29	22.97	-8.92	23	-8.8	-24	-1.30E-04
1	Sec. 1-1	9.09	0.29	22.97	-9.31	23	-10	-29	-9.00E-05
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1	Sec. 1-1	11.12	0.29	22.97	-9.6	23	-12	-33	-2.20E-04
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1	Sec. 1-1	17.19	0.29	22.97	-9.98	23	-17	-41	-5.00E-04
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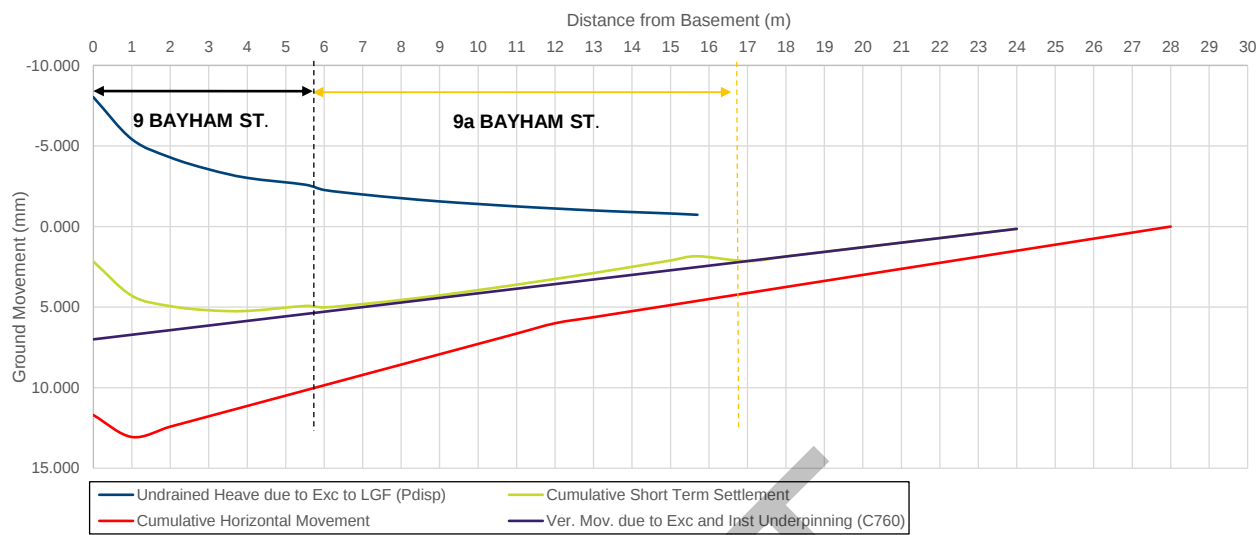
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7 Sec. 7-7	-0.69	42.56	22.97	-0.56	23	-2.50E-06	-0.036	1.80E-06
8 7BS Rear	16.15	0.15	20.47	-8.89	20	-9.3	-20	-1.20E-04
8 7BS Rear	16.16	-0.96	20.47	-5.89	20	-4.9	-14	-1.20E-05
8 7BS Rear	16.16	-2.06	20.47	-4.47	20	-2.2	-9.3	3.80E-05
8 7BS Rear	16.17	-3.17	20.47	-3.58	20	-1	-6.3	4.70E-05
8 7BS Rear	16.17	-4.28	20.47	-2.95	20	-0.53	-4.5	4.30E-05
8 7BS Rear	16.17	-5.39	20.47	-2.49	20	-0.29	-3.3	3.60E-05
8 7BS Rear	16.18	-6.49	20.47	-2.13	20	-0.17	-2.5	3.00E-05
9 9BS Front	22.58	26.45	22.97	-6.11	23	-0.058	-3.1	1.50E-04
9 9BS Front	22.6	27.47	22.97	-3.92	23	-0.0039	-1.1	5.30E-05
9 9BS Front	22.61	28.5	22.97	-3.1	23	-9.10E-04	-0.59	2.90E-05
9 9BS Front	22.63	29.53	22.97	-2.59	23	-3.40E-04	-0.39	1.90E-05
9 9BS Front	22.64	30.56	22.97	-2.21	23	-1.60E-04	-0.28	1.40E-05
9 9BS Front	22.66	31.59	22.97	-1.93	23	-8.50E-05	-0.21	1.10E-05
9 9BS Front	22.67	32.62	22.97	-1.69	23	-5.10E-05	-0.17	8.20E-06
10 2KT Rear	7.59	26.52	22.97	-7.83	23	-0.016	-2.5	1.20E-04

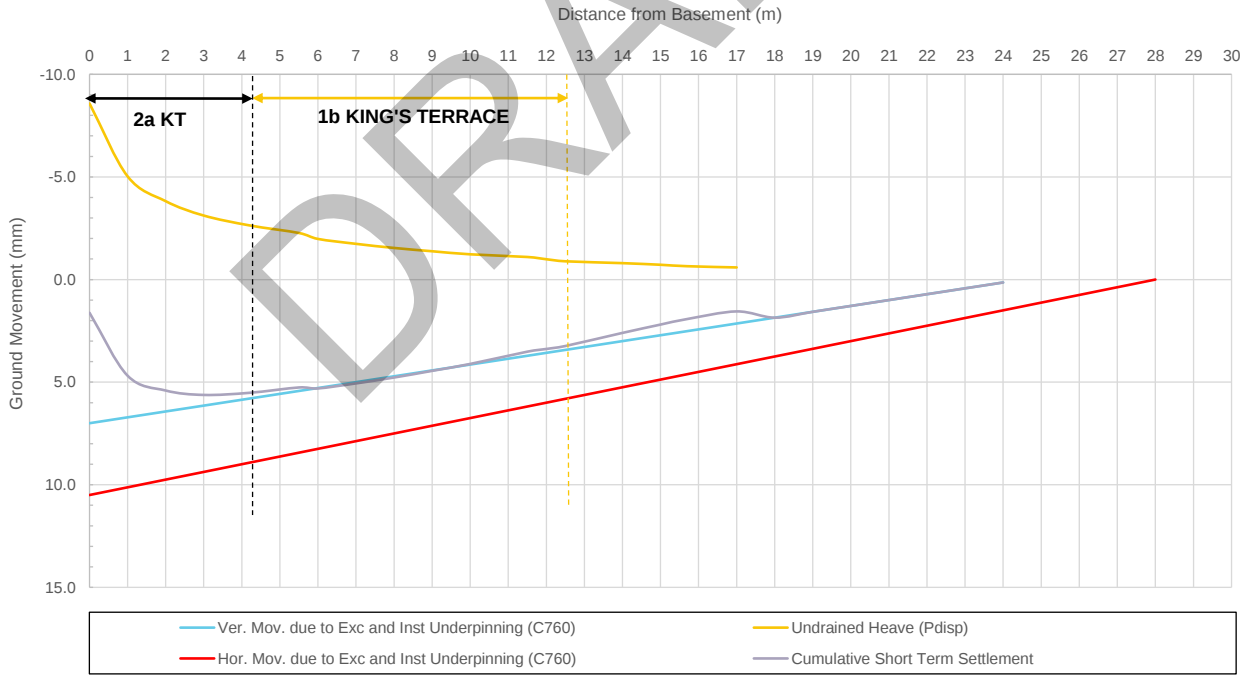
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10 2KT Rear	7.52	28.54	22.97	-4.13	23	-9.00E-04	-0.76	3.80E-05
10 2KT Rear	7.49	29.55	22.97	-3.41	23	-3.90E-04	-0.52	2.60E-05
10 2KT Rear	7.45	30.56	22.97	-2.89	23	-2.00E-04	-0.38	1.90E-05
10 2KT Rear	7.41	31.57	22.97	-2.49	23	-1.20E-04	-0.29	1.50E-05
10 2KT Rear	7.38	32.58	22.97	-2.16	23	-7.20E-05	-0.23	1.10E-05
11 2aKT Front	-0.92	26.57	22.97	-5.58	23	-1.2	-7.9	2.20E-04
11 2aKT Front	-1.62	26.32	22.97	-4.01	23	-0.049	-2.4	1.10E-04
11 2aKT Front	-2.31	26.07	22.97	-3.31	23	-0.0072	-1.2	6.00E-05
11 2aKT Front	-3.01	25.83	22.97	-2.9	23	-0.0022	-0.78	3.80E-05
11 2aKT Front	-3.7	25.58	22.97	-2.6	23	-9.20E-04	-0.55	2.80E-05
12 2aKT Rear	-0.57	16.43	22.97	-8.88	23	-10	-29	-2.90E-05
12 2aKT Rear	-1.61	16.36	22.97	-5.34	23	-0.029	-3.1	1.50E-04
12 2aKT Rear	-2.64	16.29	22.97	-4.15	23	-0.0037	-1.4	6.80E-05
12 2aKT Rear	-3.67	16.21	22.97	-3.43	23	-0.0011	-0.8	4.00E-05
12 2aKT Rear	-4.71	16.14	22.97	-2.92	23	-4.40E-04	-0.54	2.70E-05

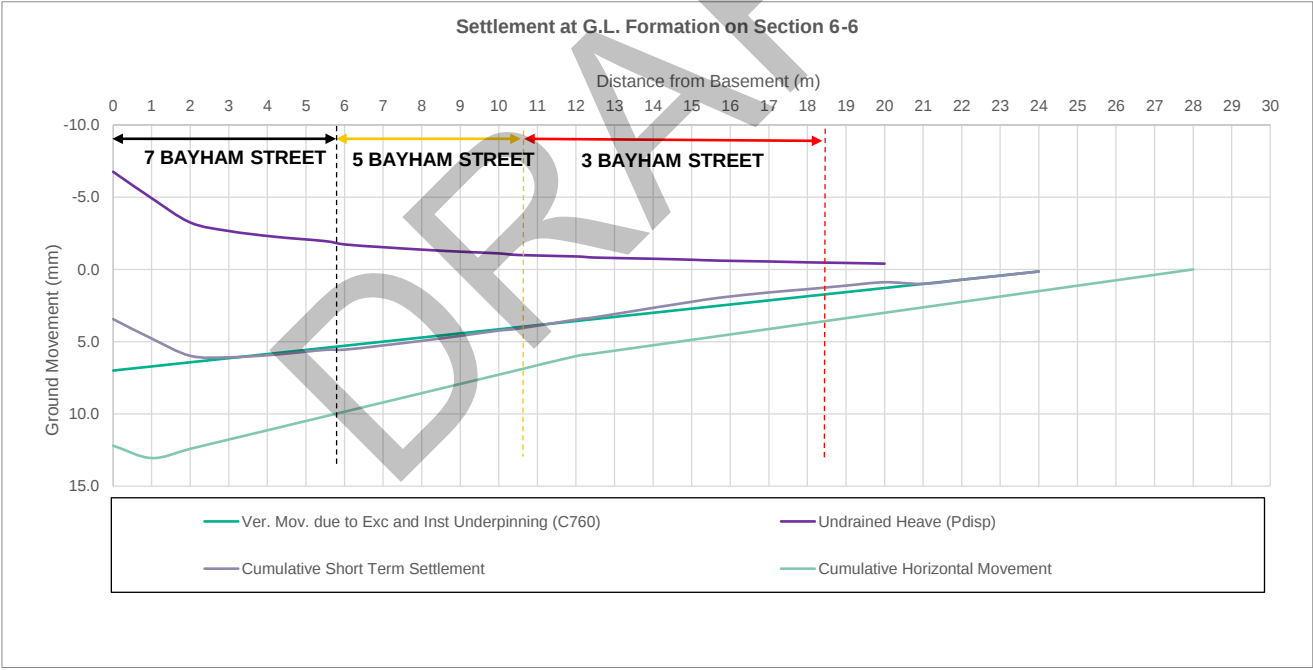
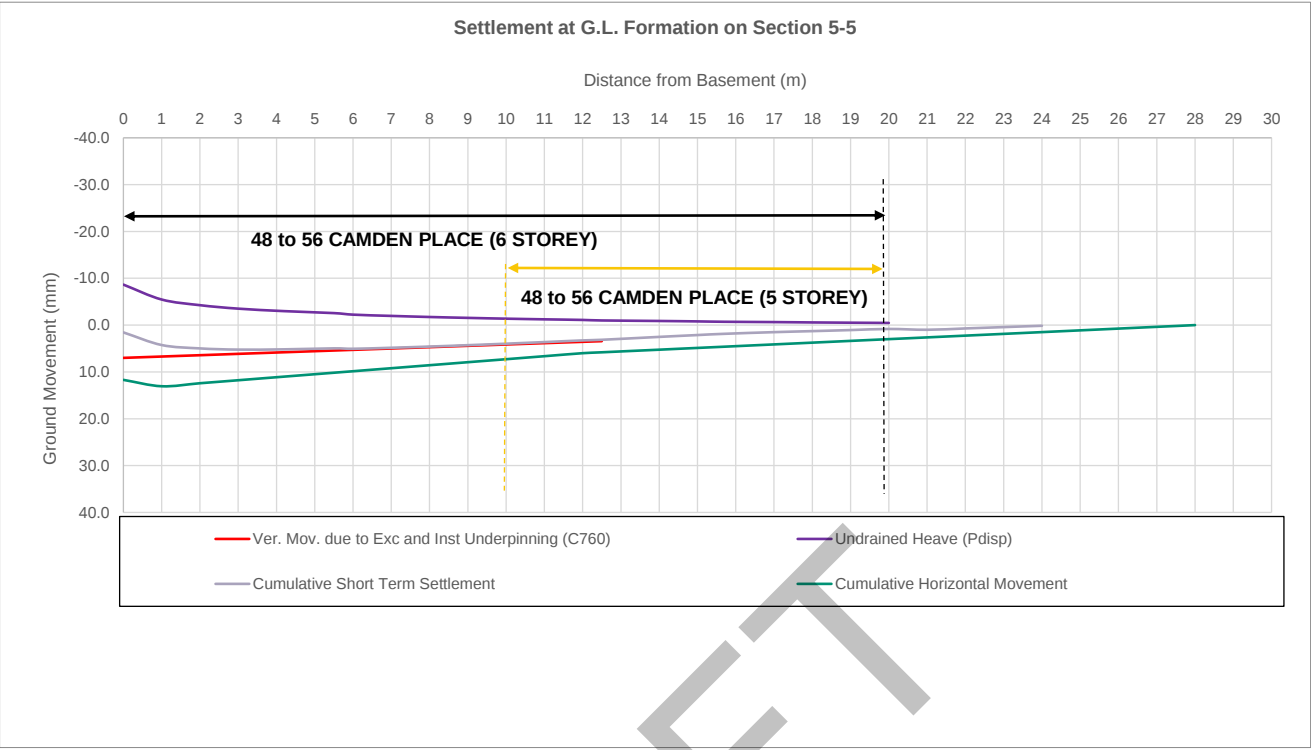
END_TABLE

Settlement at G.L. Formation on Section 2-2



Settlement at G.L. Formation on Section 3-3





Settlement at G.L. Formation on Section 7-7

