

APPENDIX 'A'

GEOTECHNICAL REPORT



Geotechnical Investigation

**City of Winnipeg Street Investigation 19-
R-6 Waverley Street Granular Renewal**

Winnipeg, Manitoba

WX18717

4 March 2019



Environment & Infrastructure Solutions
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Geotechnical Investigation
City of Winnipeg Street Investigation 19-R-6 Waverley Street Granular Renewal
Wood Project Number - WX18717

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Rev.	Date	Revision Notes	
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Permit Stamp		Engineer Seal	



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1.0 Introduction

At the authorization of Mr. Brad Cook, P. Eng., of Dillon Consulting Limited (Dillon), Wood Environment & Infrastructure Solutions, a division of Wood Canada Limited (Wood), completed a test hole drilling program related to the evaluation and rehabilitation of an approximant 4.2 km stretch of Waverley Street from Grandmont Boulevard to the City Limit.

The geotechnical investigation was completed in accordance with the Scope of Work and Terms and Conditions outlined in Wood Proposal No. WPG2018.684 dated 19 December 2018.

2.0 Geotechnical Investigation

Prior to initiating drilling, Wood notified public utility providers (i.e. Manitoba Hydro, MTS, Shaw, etc.) of the intent to drill in order to clear public utilities, and where required, met with said representatives on-site.

On 01st and 09th of February 2019, Wood supervised the drilling of a total of forty-two test holes (TH01 through TH42) on Waverley Street from Grandmont Boulevard to the City Limit. The test hole locations were chosen by Wood based on the City of Winnipeg requirements listed in the RFP No. 833-2018; the test hole locations are described in Appendix A and illustrated in Figure 1. At each test hole location, the offset from shoulder edge and distance from cross street were recorded, measurements were based on a combination of truck oedometer readings and hand measurements (Truck measurements were used when measurements were 0.1 km or greater). All test holes were drilled to a minimum depth of 2.0 m using a truck mounted Mobile B40LX drill rig equipped with 125 mm solid stem augers, owned and operated by Maple Leaf Drilling of Springfield, Manitoba.

During drilling, Wood field personnel visually classified the soil stratigraphy within the test holes in accordance with the RFP No. 833-2018 section F2.2 (d); as well as noted observed seepage and/or sloughing conditions. Soil sampling consisted of grab samples of the auger cuttings obtained at 0.3 m intervals at all test hole locations. All grab samples were retained in sealed plastic bags and shipped to Wood's Winnipeg laboratory for review and selected testing.

Following completion of the field drilling program, a laboratory testing program was conducted on all soil samples obtained from the test holes. The laboratory testing program consisted of moisture content determinations for all samples collected, as well as Atterberg limits particle size distributions (hydrometer method) on selected samples. A summary of the Atterberg limit and particle size distribution are presented in Appendix B. Detailed test hole logs summarizing the sampling, field testing, laboratory test results, and subsurface conditions encountered at the test hole locations are presented in Appendix C.

Actual depths noted on the test hole logs may vary by ± 0.3 m from those recorded due to the method by which the soil cuttings are returned to the surface. Summaries of the terms and symbols used on the test hole logs and of the Modified Unified Soil Classification System are also presented in Appendix C. A summary of the test hole information, location and lab testing data is also provided in the Appendix A summary tables.



3.0 Closure

The findings of this report were based on the results of field and laboratory investigations at test hole locations determined based on the City of Winnipeg requirements.

The site investigation was conducted for the sole purpose of profiling the pavement and subsurface conditions. Although no environmental issues were identified during the fieldwork, this does not indicate that no such issues exist. If the owner or other parties have any concern regarding the presence of environmental issues, then an appropriate level environmental assessment should be conducted.

Soil conditions, by their nature, can be highly variable across a site. The placement of fill and prior construction activities on a site can contribute to the variability especially near surface soil conditions. A contingency should always be included in any construction budget to allow for the possibility of variation in soil conditions, which may result in modification of any potential design and construction procedures which may arise from this factual investigative report.

Respectfully submitted,

**Wood Environment & Infrastructure Solutions,
a Division of Wood Canada Limited**

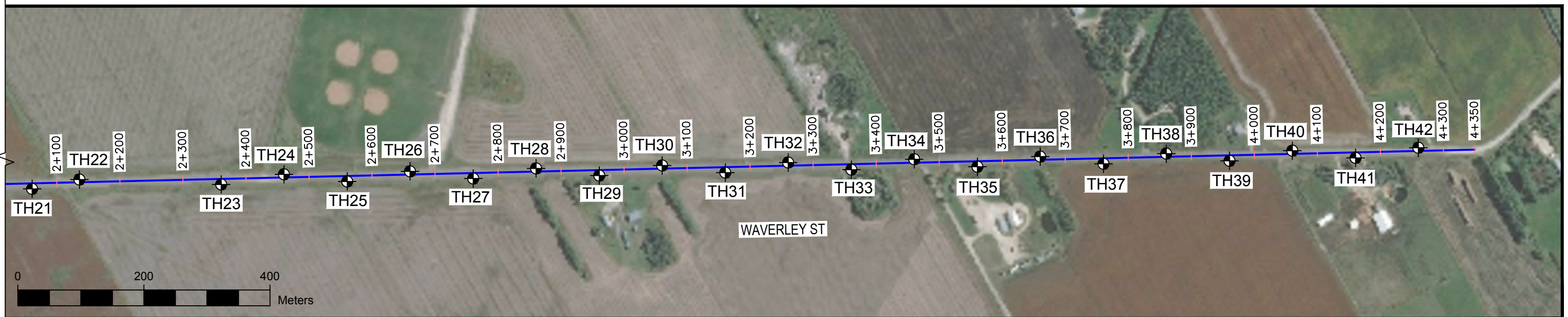
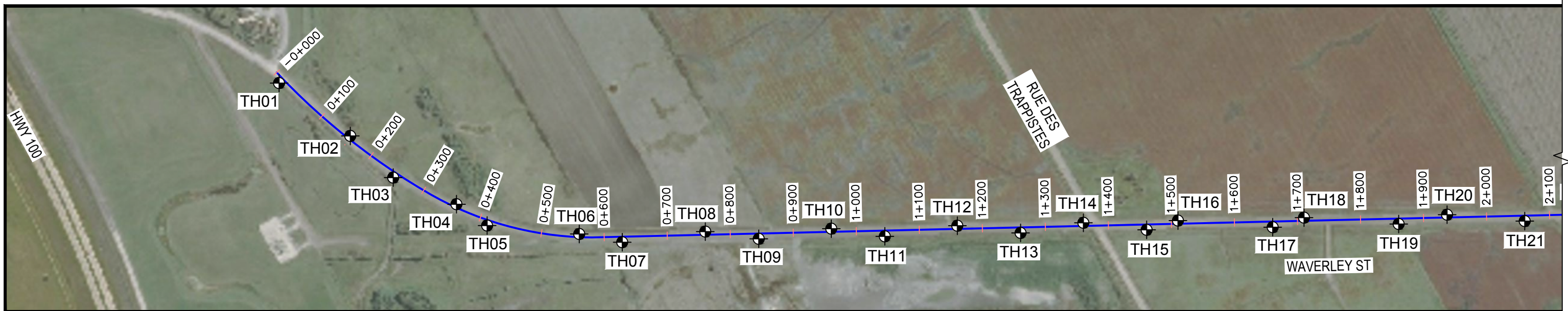
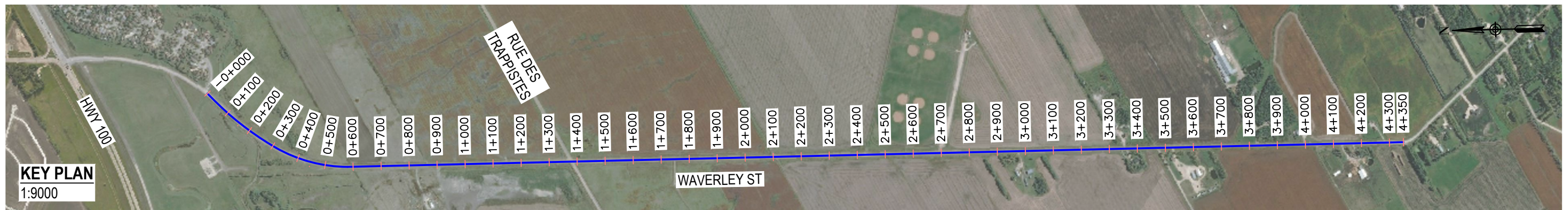


Figures



Figure 1: Test Hole Location Plan





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NOTES: SITE FEATURES AND LOCATIONS ARE APPROXIMATE ONLY. IMAGES FROM GOOGLE EARTH PRO AND TOPO MAPS.

LEGEND:

TEST HOLE



REVISION	BY	DATE
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CLIENT:

DILLON CONSULTING LIMITED



440 DOVERCOURT DRIVE
WINNIPEG, MANITOBA R3Y 1N4
PHONE: 204.488.2997 FAX: 204.489.8261

DWN BY:	MD
CHK'D BY:	BW
DATUM:	NAD83
PROJECTION:	UTM Zone 14 U
SCALE:	AS SHOWN

CITY OF WINNIPEG STREET INVESTIGATION
19-R-6 WAYERLEY STREET GRANULAR ROAD RECONSTRUCTION
WINNIPEG, MANITOBA

TEST HOLE LOCATION PLAN

DATE:	MARCH 2019
PROJECT NO.:	WX18717
REV. NO.:	A
FIGURE NO.:	FIGURE 1

Appendix A

Test Hole Summary Tables





SUMMARY TABLE

Client: Dillion Construction
 Project: City of Winnipeg Waverley Street Investigation
 Date Drilled: 01-Feb-2019 and 09-Feb-2019
 Drilled By: Caolan McEvoy

Project No: WX18717
 Auger Diameter: 125 mm Solid Stem Auger
 Street: Waverley Street

Test Hole No.	Test Hole Location	Pavement Surface		Soil Description	Sample Depth (m)		Moisture Content (%)	Grain Size Analysis				Atterberg Limits		
		Type	Thickness (mm)		Top	Bottom		Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Liquid	Plastic	Plasticity Index
TH01	18.5 m South of Grandmont Blvd, 3.0 m East of West shoulder	Granular Fill	200	GRANULAR FILL	0.0	0.1	10.3							
				CLAY FILL	0.2	0.3	23.2							
				CLAY	0.5	0.7	33.9							
				CLAY	0.8	1.0	34.5							
				CLAY	1.1	1.3	35.3							
				CLAY	1.4	1.6	34.1							
				SILT	1.7	1.9	41.2							
TH02	140 m South of Grandmont Blvd, 2.5 m West of East shoulder	Granular Fill	300	GRANULAR FILL	0.0	0.1	3.6							
				CLAY	0.3	0.5	25.0							
				CLAY	0.5	0.7	26.9							
				CLAY	0.8	1.0	28.2							
				CLAY	1.1	1.3	29.5							
				CLAY	1.4	1.6	26.1							
				CLAY	1.7	1.9	27.8							
TH03	253 m South of Grandmont Blvd, 3.0 m East of West shoulder	Granular Fill	390	GRANULAR FILL	0.0	0.1	4.4							
				GRANULAR FILL	0.2	0.4	10.7							
				CLAY	0.5	0.7	28.9							
				CLAY	0.8	1.0	30.0							
				CLAY	1.1	1.3	28.7							
				CLAY	1.4	1.6	28.7							
				CLAY	1.7	1.9	29.3							
TH04	340 m South of Grandmont Blvd, 3.0 m West of East shoulder	Granular Fill	175	GRANULAR FILL	0.0	0.1	3.4							
				CLAY	0.2	0.4	25.2							
				CLAY	0.5	0.7	26.9							
				CLAY	0.8	1.0	27.1							
				CLAY	1.1	1.3	27.4							
				CLAY	1.4	1.6	35.2							
				CLAY	1.7	1.9	39.6							



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 Street: Waverley Street

Test Hole No.	Test Hole Location	Pavement Surface		Soil Description	Sample Depth (m)		Moisture Content (%)	Grain Size Analysis				Atterberg Limits		
		Type	Thickness (mm)		Top	Bottom		Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Liquid	Plastic	Plasticity Index
TH05	419 m South of Grandmont Blvd, 3.0 m East of West shoulder	Granular Fill	200	GRANULAR FILL	0.0	0.1	3.8							
				CLAY	0.2	0.4	21.9	0	23.1	43.8	33	50	18	32
				CLAY	0.5	0.7	28.8							
				CLAY	0.8	1.0	28.4							
				CLAY	1.1	1.3	28.9							
				CLAY	1.4	1.6	34.7							
				CLAY	1.7	1.9	37.0							
TH06	540 m South of Grandmont Blvd, 3.0 m West of East shoulder	Granular Fill	175	GRANULAR FILL	0.0	0.1	4.7							
				CLAY FILL	0.2	0.4	28.2							
				CLAY	0.5	0.7	26.6							
				CLAY	0.8	1.0	28.8							
				CLAY	1.1	1.3	27.7							
				CLAY	1.4	1.6	35.2							
				CLAY	1.7	1.9	39.6							
TH07	619 m South of Grandmont Blvd, 3.0 m East of West shoulder	Granular Fill	200	GRANULAR FILL	0.0	0.1	6.6							
				CLAY	0.2	0.4	18.7							
				CLAY	0.5	0.7	26.4							
				CLAY	0.8	1.0	27.1							
				CLAY	1.1	1.3	27.1							
				CLAY	1.4	1.6	28.6							
				CLAY	1.7	1.9	26.1							
TH08	740 m South of Grandmont Blvd, 3.0 m West of East shoulder	Granular Fill	175	GRANULAR FILL	0.0	0.1	4.1							
				CLAY FILL	0.2	0.4	25.6							
				CLAY FILL	0.5	0.7	20.4	0	7.2	51.3	39.5	44	15	29
				CLAY	0.8	1.0	30.0							
				CLAY	1.1	1.3	26.4							
				CLAY	1.4	1.6	26.6							
				CLAY	1.7	1.9	23.5							



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Test Hole No.	Test Hole Location	Pavement Surface		Soil Description	Sample Depth (m)		Moisture Content (%)	Grain Size Analysis				Atterberg Limits		
		Type	Thickness (mm)		Top	Bottom		Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Liquid	Plastic	Plasticity Index
TH09	528.2 m North of Rue Des Trappistes, 3.5 m East of West shoulder	Granular Fill	100	GRANULAR FILL	0.0	0.1	6.0							
				CLAY	0.2	0.4	20.2							
				CLAY	0.5	0.7	29.3							
				CLAY	0.8	1.0	28.7							
				CLAY	1.1	1.3	28.5							
				CLAY	1.4	1.6	29.6							
				CLAY	1.7	1.9	30.9							
TH10	413 m North of Rue Des Trappistes, 3.0 m West of East shoulder	Granular Fill	150	GRANULAR FILL	0.0	0.1	7.8							
				CLAY	0.2	0.4	21.3							
				CLAY	0.5	0.7	29.0							
				CLAY	0.8	1.0	31.1							
				CLAY	1.1	1.3	31.0							
				CLAY	1.4	1.6	29.4							
TH11	382 m North of Rue Des Trappistes, 2.9 m East of West shoulder	Granular Fill	200	GRANULAR FILL	0.0	0.1	4.0							
				CLAY	0.2	0.4	26.2							
				CLAY	0.5	0.7	35.8							
				CLAY	0.8	1.0	36.4							
				CLAY	1.1	1.3	33.9							
				CLAY	1.4	1.6	33.0							
TH12	213 m North of Rue Des Trappistes, 3.0 m West of East shoulder	Granular Fill	250	GRANULAR FILL	0.0	0.1	3.6							
				CLAY	0.2	0.4	17.9							
				CLAY	0.5	0.7	33.0							
				CLAY	0.8	1.0	32.8							
				CLAY	1.1	1.3	31.7							
				CLAY	1.4	1.6	31.8							



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Test Hole No.	Test Hole Location	Pavement Surface		Soil Description	Sample Depth (m)		Moisture Content (%)	Grain Size Analysis				Atterberg Limits		
		Type	Thickness (mm)		Top	Bottom		Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Liquid	Plastic	Plasticity Index
TH13	113 m North of Rue Des Trappistes, 3.3 m East of West shoulder	Granular Fill	150	GRANULAR FILL	0.0	0.1	5.2							
				CLAY FILL	0.2	0.4	22.0							
				CLAY FILL	0.5	0.7	21.6							
				CLAY	0.8	1.0	31.2							
				CLAY	1.1	1.3	30.0							
				SILT	1.7	1.8	21.1							
				CLAY	1.8	2.0	28.5							
TH14	13 m North of Rue Des Trappistes, 3.0 m West of East shoulder	Granular Fill	275	GRANULAR FILL	0.0	0.1	2.6							
				CLAY	0.3	0.4	18.1							
				CLAY	0.5	0.7	28.7							
				CLAY	0.8	1.0	30.2							
				CLAY	1.1	1.3	29.0							
				CLAY	1.4	1.6	29.2							
				CLAY	1.7	1.9	29.0							
TH15	87 m South of Rue Des Trappistes, 3.5 m East of West shoulder	Granular Fill	200	GRANULAR FILL	0.0	0.1	3.7							
				CLAY	0.2	0.4	20.3							
				CLAY	0.5	0.7	38.9							
				CLAY	0.8	1.0	38.3							
				CLAY	1.1	1.3	36.2							
				CLAY	1.4	1.6	30.7							
				CLAY	1.7	1.9	34.4							
TH16	137 m South of Rue Des Trappistes, 3.0 m West of East shoulder	Granular Fill	225	GRANULAR FILL	0.0	0.1	3.9							
				CLAY	0.2	0.4	19.7							
				CLAY	0.5	0.7	29.3							
				CLAY	0.8	1.0	28.0							
				CLAY	1.1	1.3	28.4							
				CLAY	1.4	1.6	28.2							
				CLAY	1.7	1.9	32.4							



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Test Hole No.	Test Hole Location	Pavement Surface		Soil Description	Sample Depth (m)		Moisture Content (%)	Grain Size Analysis				Atterberg Limits		
		Type	Thickness (mm)		Top	Bottom		Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Liquid	Plastic	Plasticity Index
TH17	287 m South of Rue Des Trappistes, 3.0 m East of West shoulder	Granular Fill	200	GRANULAR FILL	0.0	0.1	3.8							
				CLAY FILL	0.2	0.4	27.1							
				CLAY FILL	0.5	0.7	35.5							
				CLAY FILL	0.8	1.0	34.2							
				CLAY FILL	1.1	1.3	27.5							
				CLAY FILL	1.4	1.6	26.1							
						SILT	1.7	1.9	24.0					
TH18	337 m South of Rue Des Trappistes, 3.0 m West of East shoulder	Granular Fill	200	GRANULAR FILL	0.0	0.1	8.6							
				CLAY FILL	0.2	0.4	27.0							
				SILT	0.6	0.8	29.3							
				SILT	0.8	1.0	25.6	0	5.6	57.3	36.5	41	14	27
				SILT	1.1	1.3	24.5	0	5.8	58.8	35.2	37	14	23
				CLAY	1.5	1.7	25.6							
TH19	487 m South of Rue Des Trappistes, 3.3 m East of West shoulder	Granular Fill	200	GRANULAR FILL	0.0	0.1	4.8							
				CLAY	0.2	0.4	21.7							
				CLAY	0.5	0.7	34.7							
				CLAY	0.8	1.0	26.7							
				CLAY	1.1	1.3	27.1							
				CLAY	1.4	1.6	25.8							
TH20	564 m South of Rue Des Trappistes, 3.0 m West of East shoulder	Granular Fill	250	GRANULAR FILL	0.0	0.1	2.9							
				CLAY	0.2	0.4	31.9							
				SILT	0.5	0.7	26.7							
				SILT	0.8	1.0	27.1	0	5	58.3	36.4	36	14	22
				SILT	1.1	1.3	21.8							
				CLAY	1.5	1.7	31.7							
				CLAY	1.7	1.9	33.3							



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 Street: Waverley Street

Test Hole No.	Test Hole Location	Pavement Surface		Soil Description	Sample Depth (m)		Moisture Content (%)	Grain Size Analysis				Atterberg Limits		
		Type	Thickness (mm)		Top	Bottom		Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Liquid	Plastic	Plasticity Index
TH21	687 m South of Rue Des Trappistes, 3.0 m East of West shoulder	Granular Fill	50	GRANULAR FILL	0.0	0.1	7.1							
				CLAY FILL	0.2	0.4	26.4							
				CLAY FILL	0.5	0.7	44.0							
				CLAY	0.8	1.0	29.8							
				CLAY	1.1	1.3	35.5							
				CLAY	1.4	1.6	30.0							
				CLAY	1.7	1.9	34.0							
TH22	762 m South of Rue Des Trappistes, 3.0 m West of East shoulder	Granular Fill	250	GRANULAR FILL	0.0	0.1	2.1							
				CLAY	0.2	0.4	23.6							
				CLAY	0.5	0.7	40.1							
				CLAY	0.8	1.0	32.2							
				CLAY	1.1	1.3	31.4							
				CLAY	1.4	1.6	30.1							
TH23	987 m South of Rue Des Trappistes, 3.0 m East of West shoulder	Granular Fill	200	GRANULAR FILL	0.0	0.1	2.9							
				CLAY	0.2	0.4	31.0							
				CLAY	0.5	0.7	28.2							
				CLAY	0.8	1.0	25.7							
				CLAY	1.1	1.3	24.2							
				CLAY	1.4	1.6	24.2							
TH24	1087 m South of Rue Des Trappistes, 3.0 m West of East shoulder	Granular Fill	200	GRANULAR FILL	0.0	0.1	2.6							
				CLAY	0.2	0.4	25.1							
				CLAY	0.5	0.7	25.5							
				CLAY	0.8	1.0	28.9							
				CLAY	1.1	1.3	28.6							
				CLAY	1.4	1.6	29.4							



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		Type	Thickness (mm)		Top	Bottom		Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Liquid	Plastic	Plasticity Index
TH25	1187 m South of Rue Des Trappistes, 3.1 m East of West shoulder	Granular Fill	200	GRANULAR FILL	0.0	0.1	3.5							
				CLAY	0.2	0.4	25.9							
				CLAY	0.5	0.7	27.6							
				CLAY	0.8	1.0	27.2							
				CLAY	1.1	1.3	27.0							
				CLAY	1.4	1.6	28.2							
				CLAY	1.7	1.9	31.0							
TH26	1286 m South of Rue Des Trappistes, 3.0 m West of East shoulder	Granular Fill	125	GRANULAR FILL	0.0	0.1	2.8							
				CLAY	0.2	0.4	25.1							
				CLAY	0.5	0.7	26.6							
				CLAY	0.8	1.0	27.5							
				SILT	1.1	1.3	22.2							
				SILT	1.4	1.6	30.2							
TH27	1387 m South of Rue Des Trappistes, 3.1 m East of West shoulder	Granular Fill	225	GRANULAR FILL	0.0	0.1	2.6							
				CLAY FILL	0.2	0.4	22.6							
				CLAY	0.6	0.8	26.2							
				CLAY	0.8	1.0	29.9							
				CLAY	1.1	1.3	30.0							
				CLAY	1.4	1.6	28.4							
TH28	1486 m South of Rue Des Trappistes, 3.0 m West of East shoulder	Granular Fill	125	GRANULAR FILL	0.0	0.1	3.6							
				CLAY	0.2	0.4	30.4							
				CLAY	0.5	0.7	31.2							
				CLAY	0.8	1.0	30.0							
				CLAY	1.1	1.3	30.9							
				CLAY	1.4	1.6	28.7							
		CLAY	1.7	1.9	27.7									



SUMMARY TABLE

Client: Dillion Construction
 Project: City of Winnipeg Waverley Street Investigation
 Date Drilled: 01-Feb-2019 and 09-Feb-2019
 Drilled By: Caolan McEvoy

Project No: WX18717
 Auger Diameter: 125 mm Solid Stem Auger
 Street: Waverley Street

Test Hole No.	Test Hole Location	Pavement Surface		Soil Description	Sample Depth (m)		Moisture Content (%)	Grain Size Analysis				Atterberg Limits		
		Type	Thickness (mm)		Top	Bottom		Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Liquid	Plastic	Plasticity Index
TH29	1587 m South of Rue Des Trappistes, 3.0 m East of West shoulder	Granular Fill	225	GRANULAR FILL	0.0	0.1	2.8							
				CLAY FILL	0.2	0.4	23.3							
				SILT	0.5	0.7	30.3	0	13.2	51.9	34.6	42	15	27
				SILT	0.9	1.1	26.5	0	19.3	57.8	22.8	31	14	17
				CLAY	1.2	1.4	30.9							
				CLAY	1.4	1.6	29.3							
				CLAY	1.7	1.9	30.5							
TH30	1686 m South of Rue Des Trappistes, 3.0 m West of East shoulder	Granular Fill	200	GRANULAR FILL	0.0	0.1	11.2							
				CLAY	0.2	0.4	27.0							
				CLAY	0.5	0.7	25.4							
				CLAY	0.8	1.0	26.6							
				CLAY	1.1	1.3	30.2							
				SILT	1.5	1.7	31.2							
				SILT	1.7	1.9	31.9							
TH31	1787 m South of Rue Des Trappistes, 3.0 m East of West shoulder	Granular Fill	150	GRANULAR FILL	0.0	0.1	3.8							
				CLAY	0.2	0.4	27.8							
				CLAY	0.5	0.7	33.9							
				CLAY	0.8	1.0	31.5							
				CLAY	1.1	1.3	34.4							
				CLAY	1.4	1.6	31.6							
				CLAY	1.7	1.9	32.4							
TH32	1886 m South of Rue Des Trappistes, 3.0 m West of East shoulder	Granular Fill	150	GRANULAR FILL	0.0	0.1	6.1							
				CLAY	0.2	0.4	27.6							
				CLAY	0.5	0.7	30.8							
				CLAY	0.8	1.0	28.4							
				CLAY	1.1	1.3	28.1							
				CLAY	1.4	1.6	27.5							
				CLAY	1.7	1.9	27.7							



SUMMARY TABLE

Client: Dillion Construction
 Project: City of Winnipeg Waverley Street Investigation
 Date Drilled: 01-Feb-2019 and 09-Feb-2019
 Drilled By: Caolan McEvoy

Project No: WX18717
 Auger Diameter: 125 mm Solid Stem Auger
 Street: Waverley Street

Test Hole No.	Test Hole Location	Pavement Surface		Soil Description	Sample Depth (m)		Moisture Content (%)	Grain Size Analysis				Atterberg Limits		
		Type	Thickness (mm)		Top	Bottom		Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Liquid	Plastic	Plasticity Index
TH33	1987m South of Rue Des Trappistes, 3.0 m East of West shoulder	Granular Fill	150	GRANULAR FILL	0.0	0.1	3.6							
				CLAY	0.2	0.4	26.3							
				CLAY	0.5	0.7	36.1							
				CLAY	0.8	1.0	36.8							
				CLAY	1.1	1.3	38.5							
				CLAY	1.4	1.6	33.4							
				CLAY	1.7	1.9	34.7							
TH34	2086 m South of Rue Des Trappistes, 2.5 m West of East shoulder	Granular Fill	150	GRANULAR FILL	0.0	0.1	6.1							
				CLAY	0.2	0.4	26.5							
				CLAY	0.5	0.7	24.2							
				CLAY	0.8	1.0	25.2							
				CLAY	1.1	1.3	26.0							
				CLAY	1.4	1.6	23.1							
TH35	2187 m South of Rue Des Trappistes, 2.5 m East of West shoulder	Granular Fill	200	GRANULAR FILL	0.0	0.1	3.1							
				CLAY	0.2	0.4	15.4							
				CLAY	0.5	0.7	33.4							
				CLAY	0.8	1.0	34.4							
				CLAY	1.1	1.3	35.0							
				CLAY	1.4	1.6	33.8							
				CLAY	1.7	1.9	33.7							
TH36	2286 m South of Rue Des Trappistes, 3.0 m West of East shoulder	Granular Fill	100	GRANULAR FILL	0.0	0.1	4.5							
				CLAY	0.2	0.4	27.0							
				CLAY	0.5	0.7	24.5							
				CLAY	0.8	1.0	27.5							
				CLAY	1.1	1.3	27.1							
				CLAY	1.4	1.6	28.5							
				CLAY	1.7	1.9	30.3							



SUMMARY TABLE

Client: Dillion Construction
 Project: City of Winnipeg Waverley Street Investigation
 Date Drilled: 01-Feb-2019 and 09-Feb-2019
 Drilled By: Caolan McEvoy

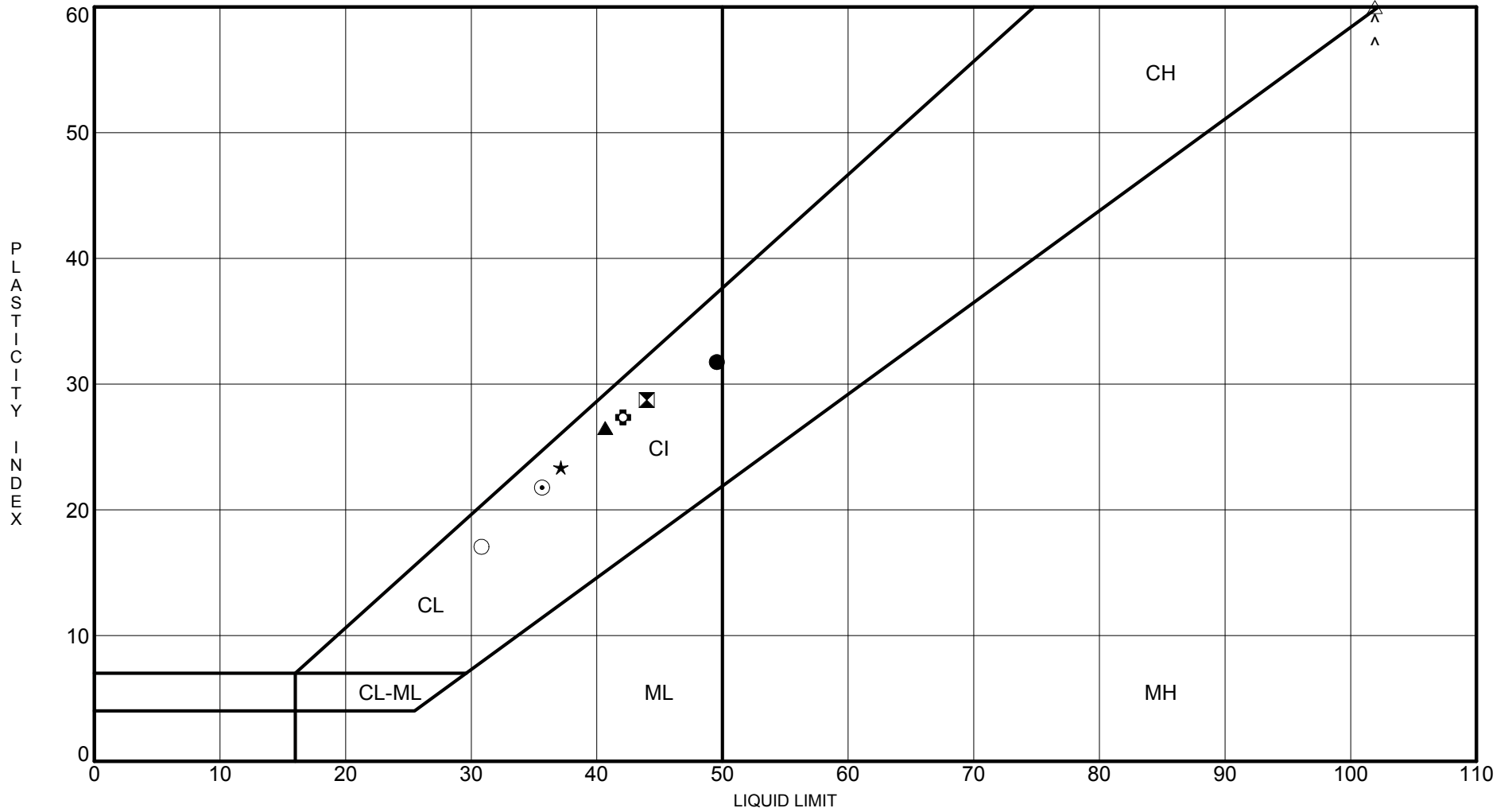
Project No: WX18717
 Auger Diameter: 125 mm Solid Stem Auger
 Street: Waverley Street

Test Hole No.	Test Hole Location	Pavement Surface		Soil Description	Sample Depth (m)		Moisture Content (%)	Grain Size Analysis				Atterberg Limits		
		Type	Thickness (mm)		Top	Bottom		Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Liquid	Plastic	Plasticity Index
TH37	2386 m South of Rue Des Trappistes, 3.0 m East of West shoulder	Granular Fill	150	GRANULAR FILL	0.0	0.1	4.2							
				CLAY	0.2	0.4	23.4							
				CLAY	0.5	0.7	24.5							
				CLAY	0.8	1.0	25.2							
				CLAY	1.1	1.3	24.9							
				CLAY	1.4	1.6	23.8							
				CLAY	1.7	1.9	27.2	0	1.2	22.4	76.5	102	24	78
TH38	2486 m South of Rue Des Trappistes, 2.5 m West of East shoulder	Granular Fill	150	GRANULAR FILL	0.0	0.1	4.0							
				CLAY	0.2	0.4	27.4							
				CLAY	0.5	0.7	30.5							
				CLAY	0.8	1.0	30.8							
				CLAY	1.1	1.3	30.8							
				CLAY	1.4	1.6	26.8							
TH39	2586 m South of Rue Des Trappistes, 3.0 m East of West shoulder	Granular Fill	125	GRANULAR FILL	0.0	0.1	11.3							
				CLAY	0.2	0.4	24.3							
				CLAY	0.5	0.7	31.5							
				CLAY	0.8	1.0	27.2							
				CLAY	1.1	1.3	31.1							
				CLAY	1.4	1.6	33.9							
				CLAY	1.7	1.9	32.6							
TH40	2686 m South of Rue Des Trappistes, 3.0 m West of East shoulder	Granular Fill	150	GRANULAR FILL	0.0	0.1	11.1							
				CLAY FILL	0.2	0.4	20.4							
				CLAY	0.5	0.7	22.7							
				CLAY	0.8	1.0	22.8							
				CLAY	1.1	1.3	24.7							
				CLAY	1.4	1.6	22.8							
				SILT	1.8	2.0	20.0							

Appendix B

Laboratory Test Reports





Borehole	Depth (m)	LL	PL	PI
● TH05	0.2	50	18	32
⊠ TH08	0.5	44	15	29
▲ TH18	0.8	41	14	27
★ TH18	1.1	37	14	23
⊙ TH20	0.8	36	14	22
⊕ TH29	0.5	42	15	27
○ TH29	0.9	31	14	17
△ TH37	1.7	102	24	78

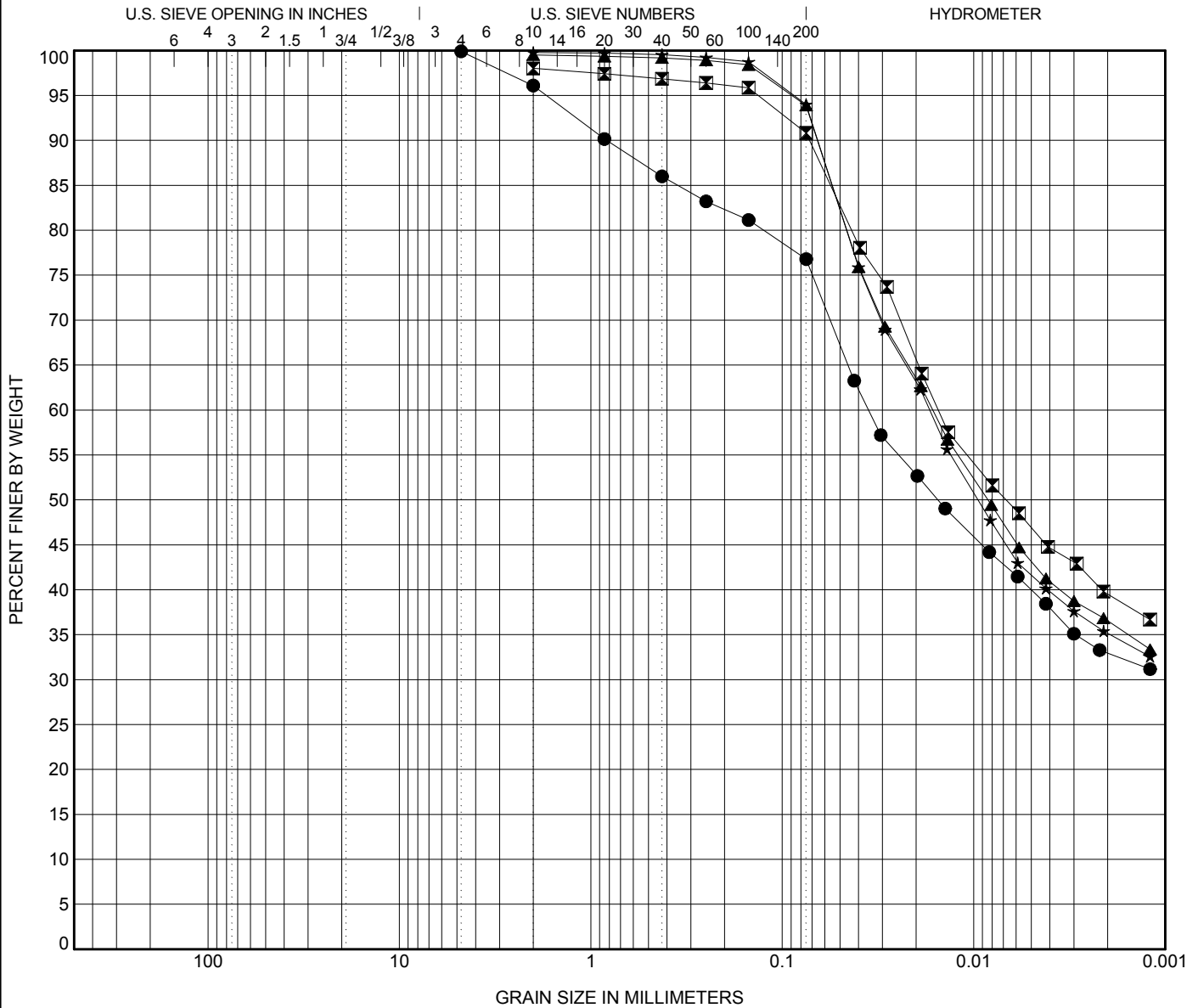
ATTERBERG LIMIT RESULTS

GRAIN SIZE DISTRIBUTION

CLIENT: Dillon Consulting Limited

PROJECT: City of Winnipeg Street Investigation

PROJECT NO: WX18717



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Sample No.	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● TH05	4.76	0.035			0.0	23.1	43.8	33.0
⊠ TH08	2	0.015				7.2	51.3	39.5
▲ TH18	2	0.016				5.6	57.3	36.5
★ TH18	2	0.017				5.8	58.8	35.2

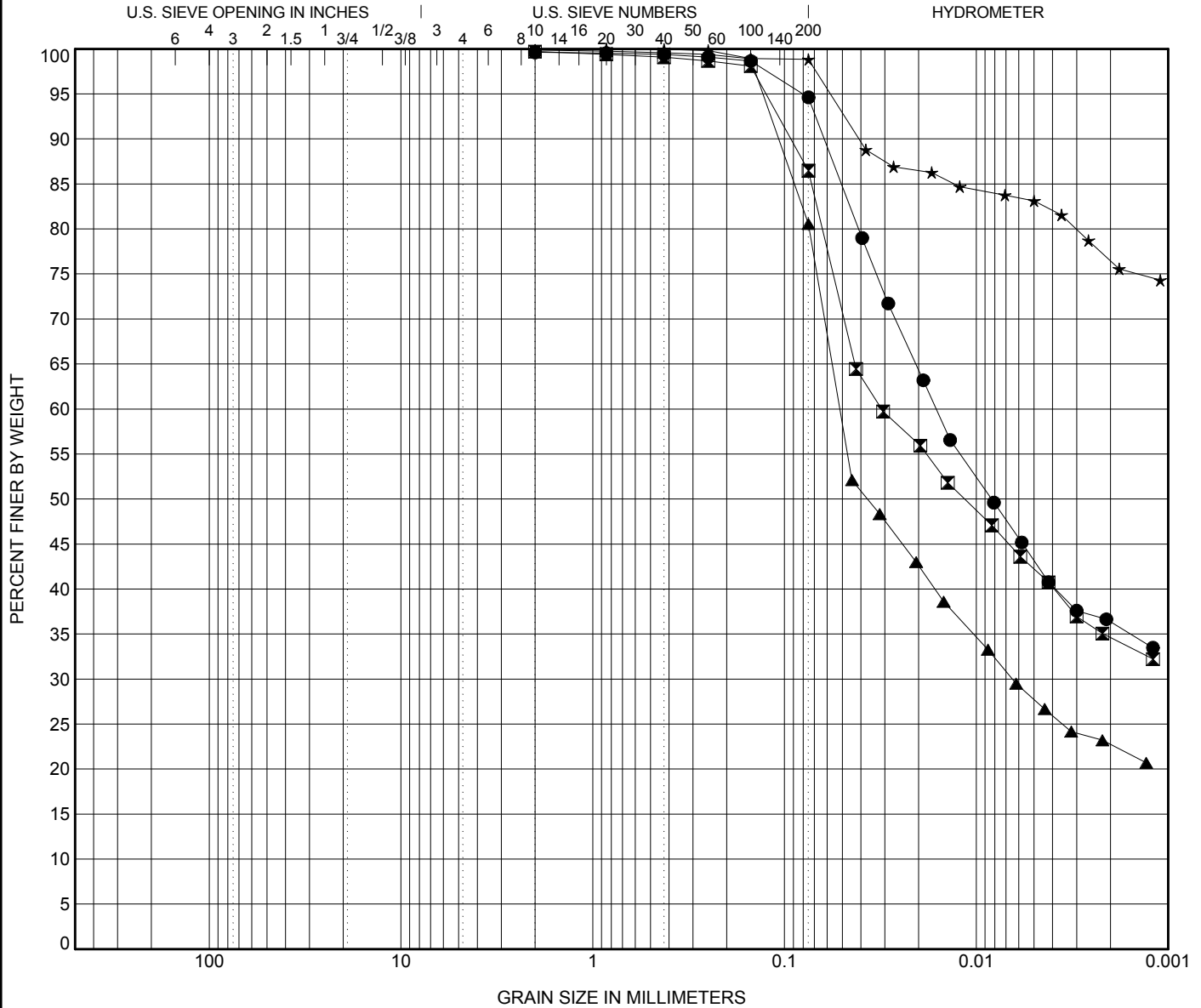
WX18717 DILLON CONSTRUCTION - CITY OF WINNIPEG STREET INVESTIGATION - WAVERLY STREET.GPJ - 19/03/04 03:01 PM (GRAIN SIZE FOR MAT CLIENTS)

GRAIN SIZE DISTRIBUTION

CLIENT: Dillon Consulting Limited

PROJECT: City of Winnipeg Street Investigation

PROJECT NO: WX18717



Appendix C

Test Hole Logs



EXPLANATION OF TERMS AND SYMBOLS

The terms and symbols used on the borehole logs to summarize the results of field investigation and subsequent laboratory testing are described in these pages.

It should be noted that materials, boundaries and conditions have been established only at the borehole locations at the time of investigation and are not necessarily representative of subsurface conditions elsewhere across the site.

TEST DATA

Data obtained during the field investigation and from laboratory testing are shown at the appropriate depth interval.

Abbreviations, graphic symbols, and relevant test method designations are as follows:

*C	Consolidation test	*ST	Swelling test
D _R	Relative density	TV	Torvane shear strength
*k	Permeability coefficient	VS	Vane shear strength
*MA	Mechanical grain size analysis and hydrometer test	w	Natural Moisture Content (ASTM D2216)
N	Standard Penetration Test (CSA A119.1-60)	w _l	Liquid limit (ASTM D 423)
N _d	Dynamic cone penetration test	w _p	Plastic Limit (ASTM D 424)
NP	Non plastic soil	E _f	Unit strain at failure
pp	Pocket penetrometer strength	γ	Unit weight of soil or rock
*q	Triaxial compression test	γ _d	Dry unit weight of soil or rock
q _u	Unconfined compressive strength	ρ	Density of soil or rock
*SB	Shearbox test	ρ _d	Dry Density of soil or rock
SO ₄	Concentration of water-soluble sulphate	C _u	Undrained shear strength
		→	Seepage
		▼	Observed water level

* The results of these tests are usually reported separately

Soils are classified and described according to their engineering properties and behaviour.

The soil of each stratum is described using the Unified Soil Classification System¹ modified slightly so that an inorganic clay of "medium plasticity" is recognized.

The modifying adjectives used to define the actual or estimated percentage range by weight of minor components are consistent with the Canadian Foundation Engineering Manual².

Relative Density and Consistency:

<u>Cohesionless Soils</u>		<u>Cohesive Soils</u>		
Relative Density	SPT (N) Value	Consistency	Undrained Shear Strength c _u (kPa)	Approximate SPT (N) Value
Very Loose	0-4	Very Soft	0-12	0-2
Loose	4-10	Soft	12-25	2-4
Compact	10-30	Firm	25-50	4-8
Dense	30-50	Stiff	50-100	8-15
Very Dense	>50	Very Stiff	100-200	15-30
		Hard	>200	>30

Standard Penetration Resistance ("N" value)

The number of blows by a 63.6kg hammer dropped 760 mm to drive a 50 mm diameter open sampler attached to "A" drill rods for a distance of 300 mm after an initial penetration of 150 mm.

¹ "Unified Soil Classification System", Technical Memorandum 36-357 prepared by Waterways Experiment Station, Vicksburg, Mississippi, Corps of Engineers, U.S. Army. Vol. 1 March 1953.

² "Canadian Foundation Engineering Manual", 3rd Edition, Canadian Geotechnical Society, 1992.

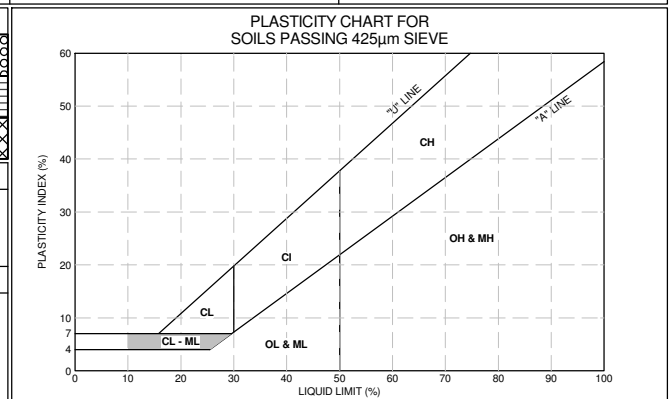
MODIFIED UNIFIED CLASSIFICATION SYSTEM FOR SOILS

MAJOR DIVISIONS			SYMBOLS			TYPICAL DESCRIPTION	LABORATORY CLASSIFICATION CRITERIA	
			USCS	GRAPH	COLOUR			
COARSE GRAINED SOILS (MORE THAN HALF BY WEIGHT LARGER THAN 75µm)	GRAVELS MORE THAN HALF THE COARSE FRACTION LARGER THAN 4.75mm	CLEAN GRAVELS (TRACE OR NO FINES)	GW		RED	WELL GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES	$C_u = D_{60}/D_{10} > 4$; $C_c = (D_{30})^2 / (D_{10} \times D_{60}) = 1 \text{ to } 3$	
			GP		RED	POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES	NOT MEETING ABOVE REQUIREMENTS	
		DIRTY GRAVELS (WITH SOME OR MORE FINES)	GM		YELLOW	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES	ATTERBERG LIMITS BELOW "A" LINE OR PI LESS THAN 4	
			GC		YELLOW	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES	ATTERBERG LIMITS ABOVE "A" LINE AND PI MORE THAN 7	
	SANDS MORE THAN HALF THE COARSE FRACTION SMALLER THAN 4.75mm	CLEAN SANDS (TRACE OR NO FINES)	SW		RED	WELL GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES	$C_u = D_{60}/D_{10} > 6$; $C_c = (D_{30})^2 / (D_{10} \times D_{60}) = 1 \text{ to } 3$	
			SP		RED	POORLY GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES	NOT MEETING ABOVE REQUIREMENTS	
		DIRTY SANDS (WITH SOME OR MORE FINES)	SM		YELLOW	SILTY SANDS, SAND-SILT MIXTURES	ATTERBERG LIMITS BELOW "A" LINE OR PI LESS THAN 4	
			SC		YELLOW	CLAYEY SANDS, SAND-CLAY MIXTURES	ATTERBERG LIMITS ABOVE "A" LINE AND PI MORE THAN 7	
FINE-GRAINED SOILS (MORE THAN HALF BY WEIGHT SMALLER THAN 75µm)	SILTS BELOW "A" LINE NEGLECTIBLE ORGANIC CONTENT	$W_L < 50\%$	ML		GREEN	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY SANDS OF SLIGHT PLASTICITY	CLASSIFICATION IS BASED UPON PLASTICITY CHART (SEE BELOW)	
		$W_L > 50\%$	MH		BLUE	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS, FINE SAND OR SILTY SOILS		
	CLAYS ABOVE "A" LINE NEGLECTIBLE ORGANIC CONTENT	$W_L < 30\%$	CL		GREEN	INORGANIC CLAYS OF LOW PLASTICITY, GRAVELLY, SANDY OR SILTY CLAYS, LEAN CLAYS		
		$30\% < W_L < 50\%$	CI		GREEN-BLUE	INORGANIC CLAYS OF MEDIUM PLASTICITY, SILTY CLAYS		
		$W_L > 50\%$	CH		BLUE	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS		
	ORGANIC SILTS & CLAYS BELOW "A" LINE	$W_L < 50\%$	OL		GREEN	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY		WHENEVER THE NATURE OF THE FINES CONTENT HAS NOT BEEN DETERMINED, IT IS DESIGNATED BY THE LETTER "F", E.G. SF IS A MIXTURE OF SAND WITH SILT OR CLAY
		$W_L > 50\%$	OH		BLUE	ORGANIC CLAYS OF HIGH PLASTICITY		
	HIGHLY ORGANIC SOILS			PT		ORANGE		PEAT AND OTHER HIGHLY ORGANIC SOILS

SPECIAL SYMBOLS			
LIMESTONE		OILSAND	
SANDSTONE		SHALE	
SILTSTONE		FILL (UNDIFFERENTIATED)	

SOIL COMPONENTS				
FRACTION	U.S. STANDARD METRIC SIEVE SIZE		DEFINING RANGES OF PERCENT BY WEIGHT OF MINOR COMPONENTS	
	PASSING	RETAINED	PERCENT	DESCRIPTOR
GRAVEL	76mm	19mm	35 - 50	AND
	COARSE	19mm		
SAND	COARSE	4.75mm	2.00mm	Y / EY
	MEDIUM	2.00mm	425µm	SOME
	FINE	425µm	75µm	TRACE
FINES (SILT OR CLAY BASED ON PLASTICITY)	75µm		1 - 10	TRACE

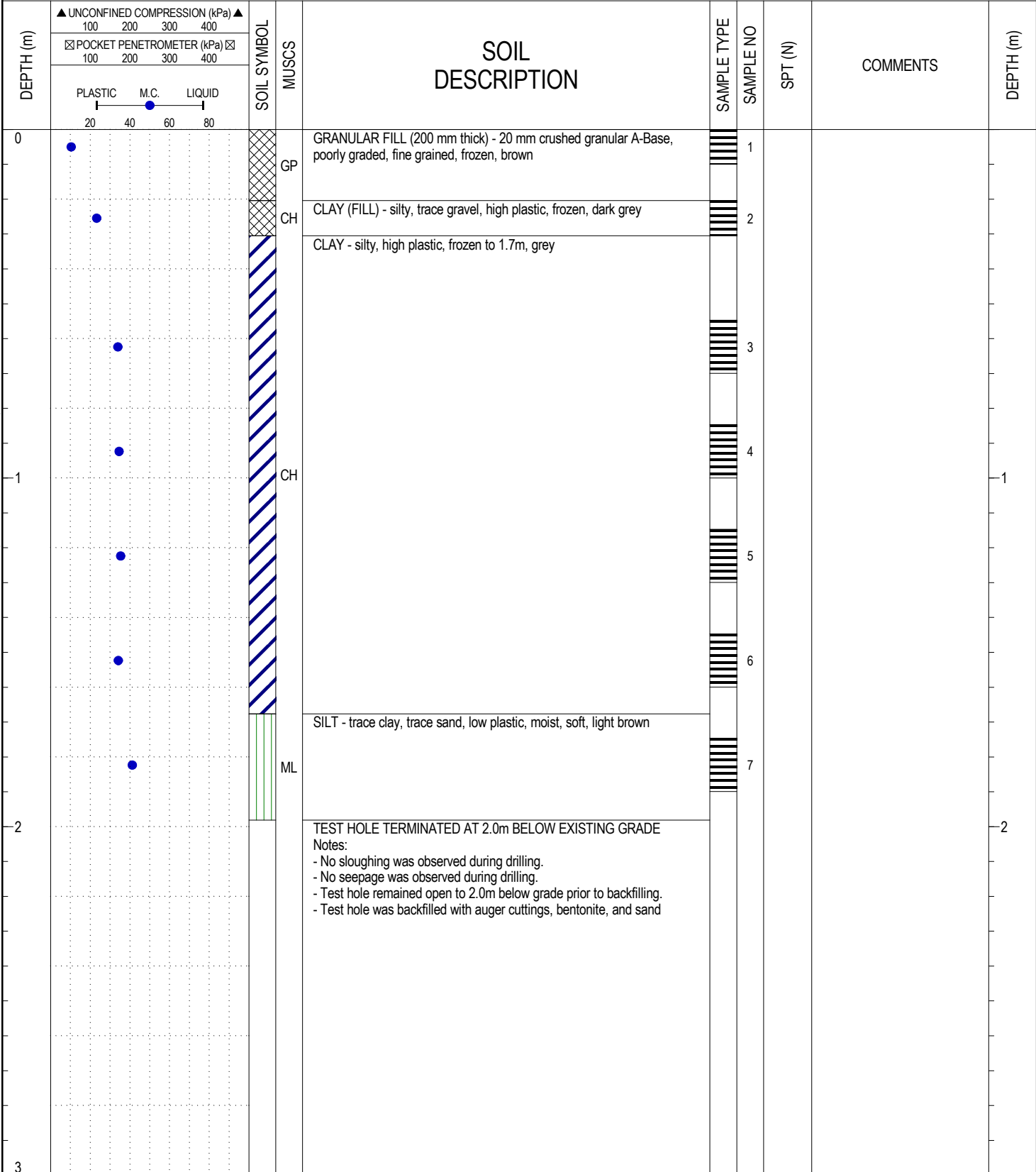
OVERSIZED MATERIAL	
ROUNDED OR SUBROUNDED: COBBLES 76mm to 200mm BOULDERS > 200mm	NOT ROUNDED: ROCK FRAGMENTS ? 76mm ROCKS > 0.76 CUBIC METRE IN VOLUME



- NOTES:**
- ALL SIEVE SIZES MENTIONED ARE U.S. STANDARD ASTM E.11.
 - COARSE GRAINED SOILS WITH TRACE TO SOME FINES GIVEN COMBINED GROUP SYMBOLS, E.G. GW-GC IS A WELL GRADED GRAVEL SAND MIXTURE WITH TRACE TO SOME CLAY.
 - DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS.

PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH01
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input checked="" type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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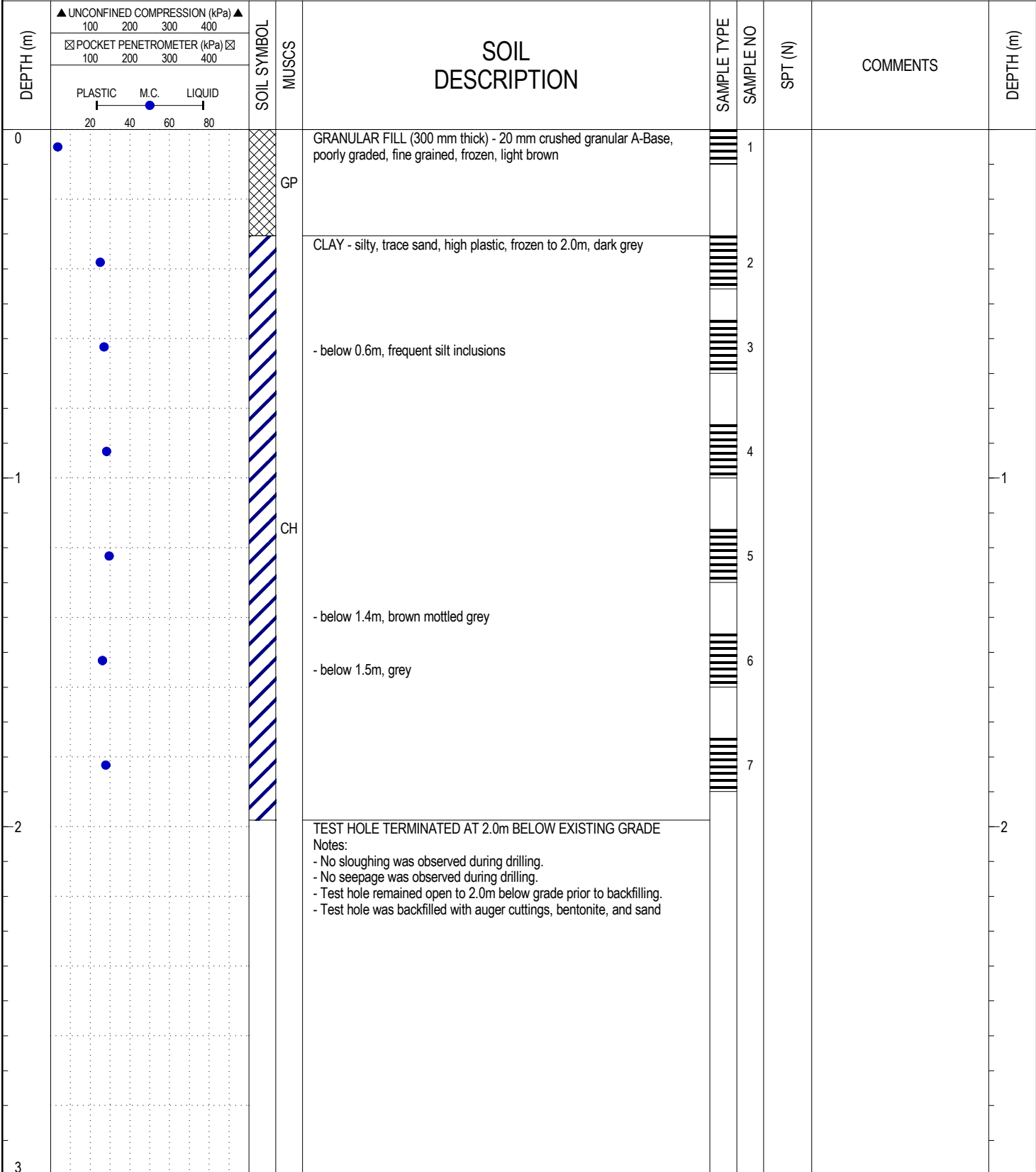


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LOGGED BY: CM	COMPLETION DEPTH: 2 m
REVIEWED BY: JW	COMPLETION DATE: 1 February 2019
Figure No.	Sheet 1 of 1

PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH02
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

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BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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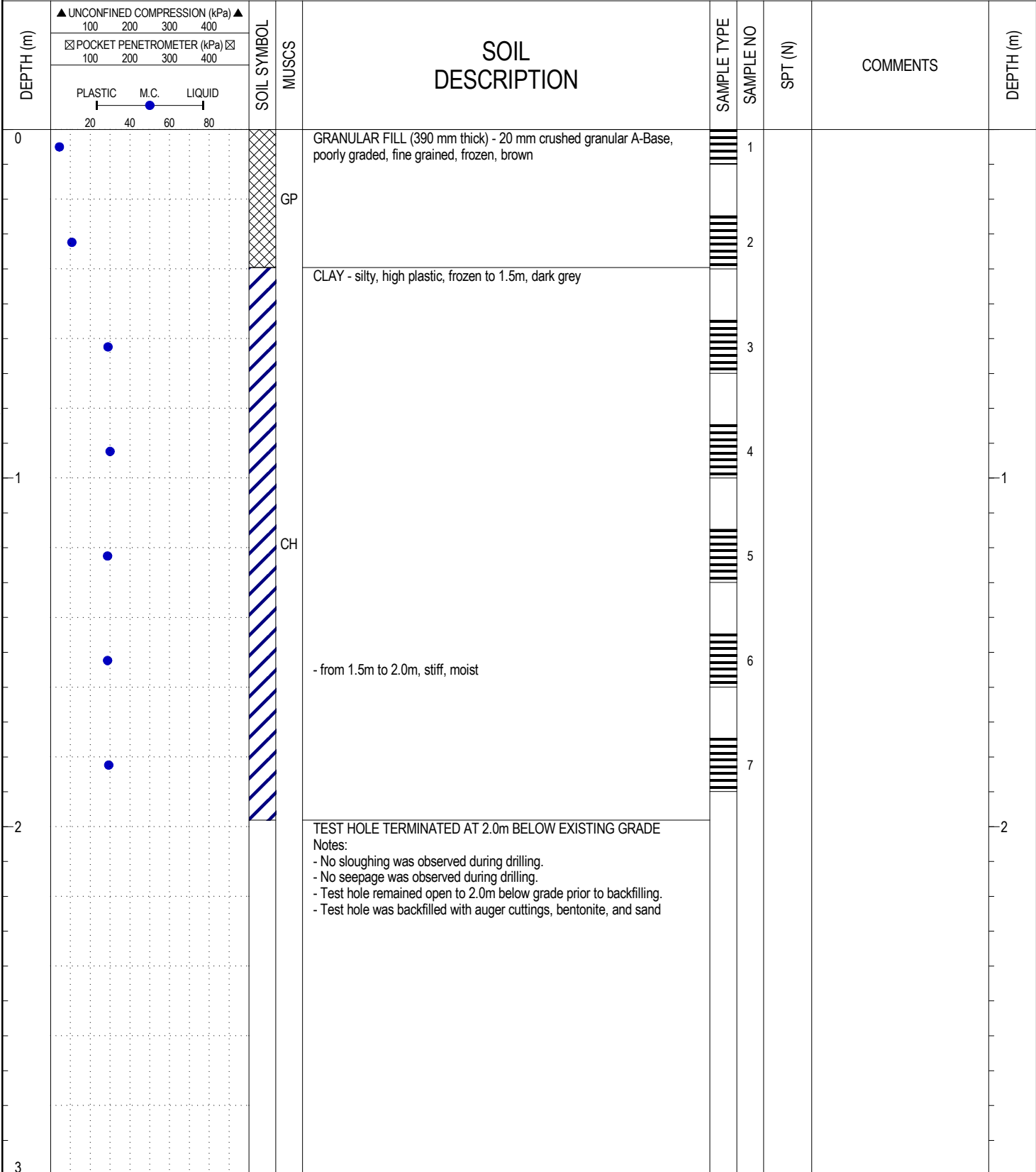


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REVIEWED BY: JW	COMPLETION DATE: 9 February 2019
Figure No.	Sheet 1 of 1

PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH03
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

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BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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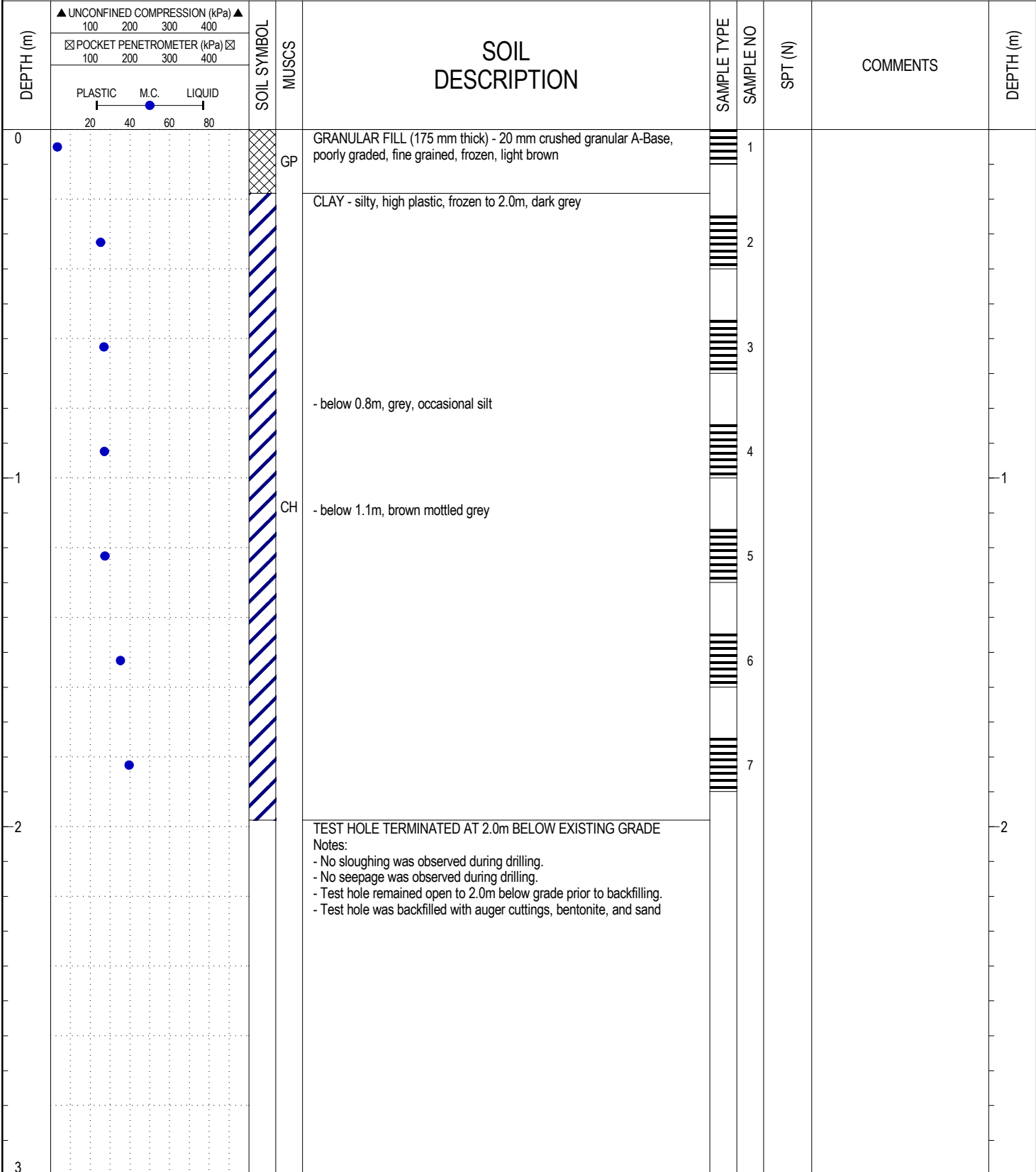


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REVIEWED BY: JW	COMPLETION DATE: 1 February 2019
Figure No.	Sheet 1 of 1

PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH04
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

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BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



WX18717 DILLON CONSTRUCTION - CITY OF WINNIPEG STREET INVESTIGATION - WAVERLEY STREET.GPJ 19/03/04 03:03 PM (WPG - GEOTECH LOG 1)

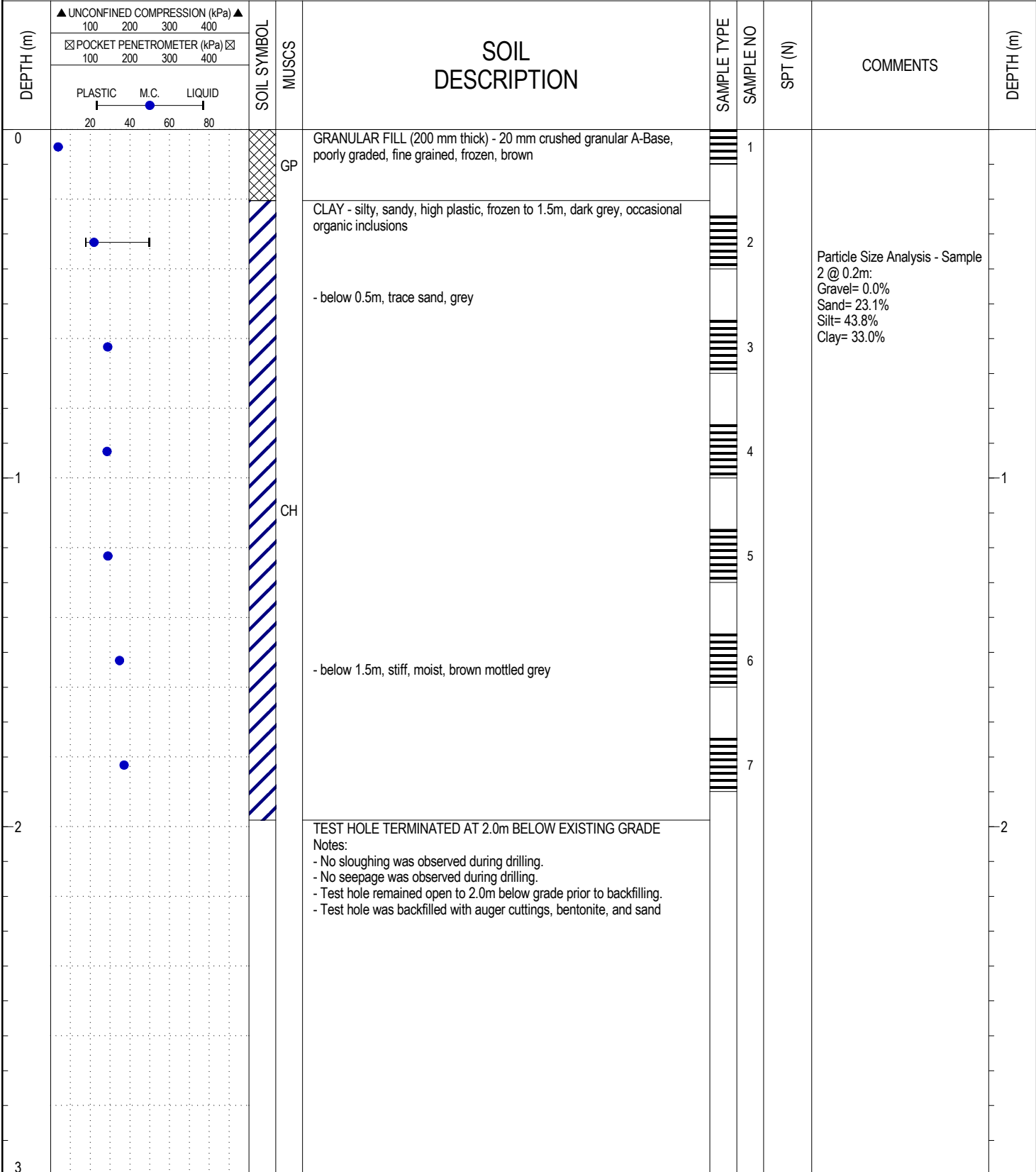


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REVIEWED BY: JW	COMPLETION DATE: 9 February 2019
Figure No.	Sheet 1 of 1

PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH05
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

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BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



WX18717 DILLON CONSTRUCTION - CITY OF WINNIPEG STREET INVESTIGATION - WAVERLY STREET.GPJ 19/03/04 03:03 PM (WPG - GEOTECH LOG 1)

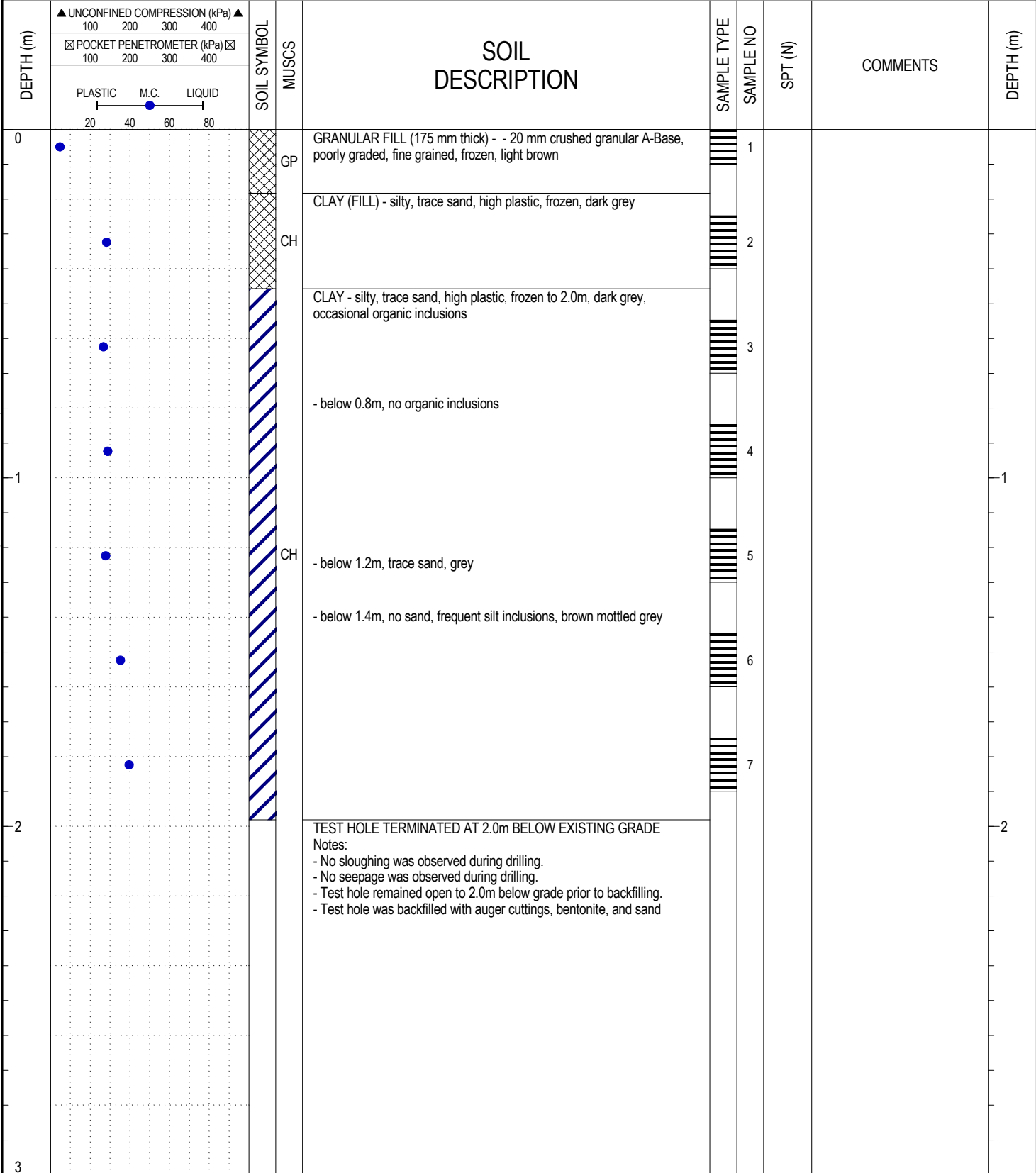


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH06
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input checked="" type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



WX18717 DILLON CONSTRUCTION - CITY OF WINNIPEG STREET INVESTIGATION - WAVERLEY STREET.GPJ 19/03/04 03:03 PM (WPG - GEOTECH LOG 1)

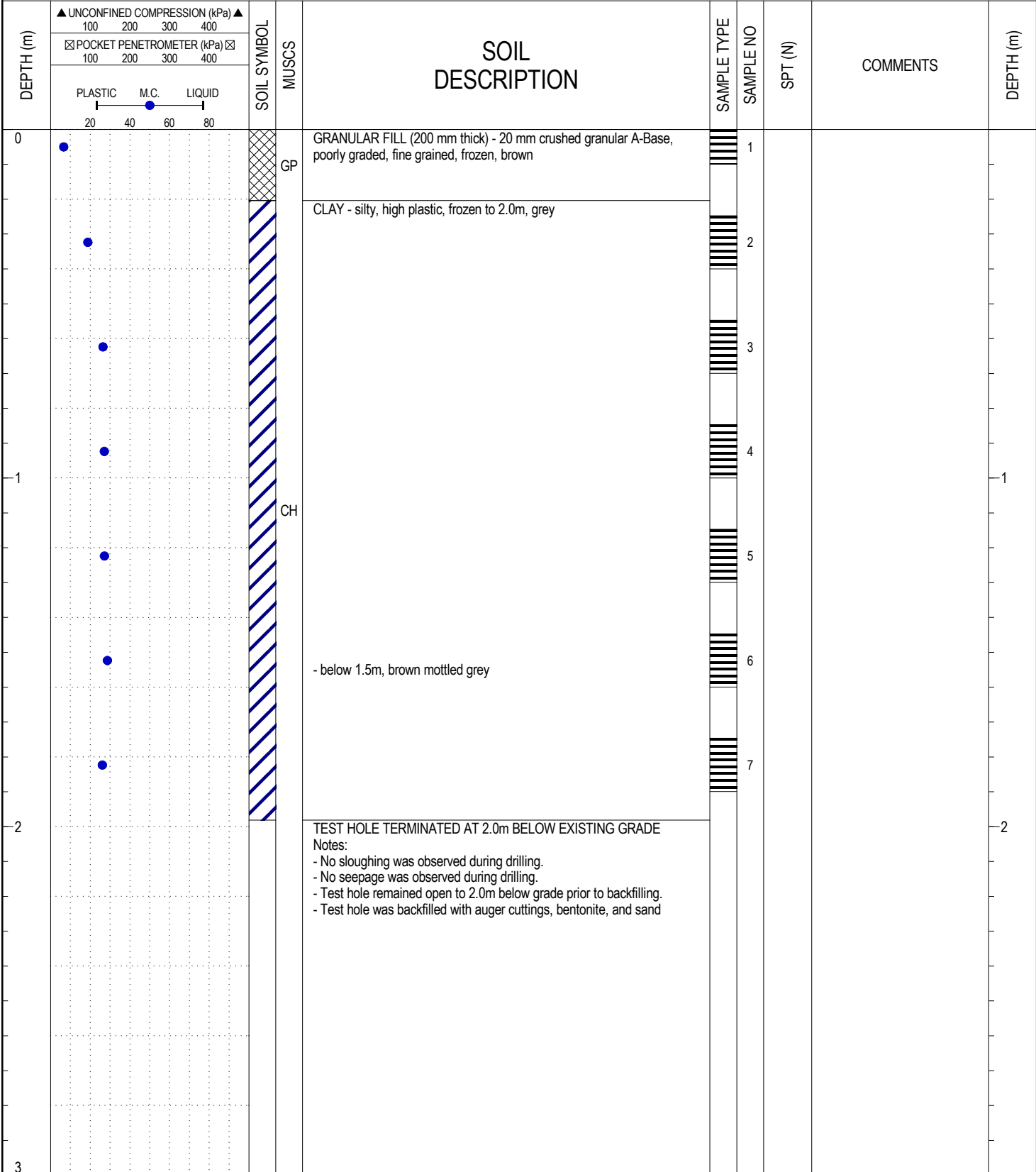


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH07
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input checked="" type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



WX18717 DILLON CONSTRUCTION - CITY OF WINNIPEG STREET INVESTIGATION - WAVERLY STREET.GPJ 19/03/04 03:03 PM (WPG - GEOTECH LOG 1)

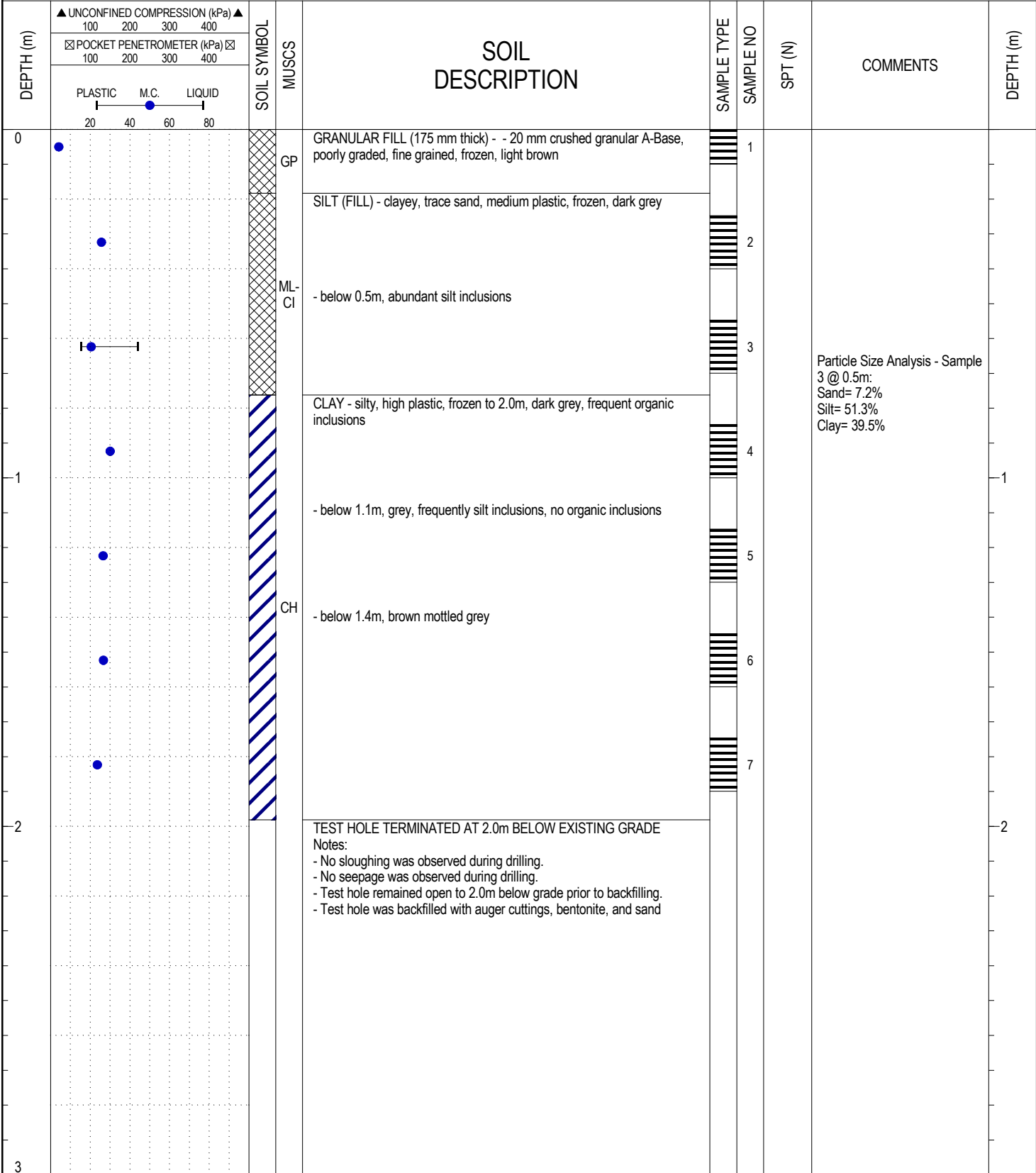


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH08
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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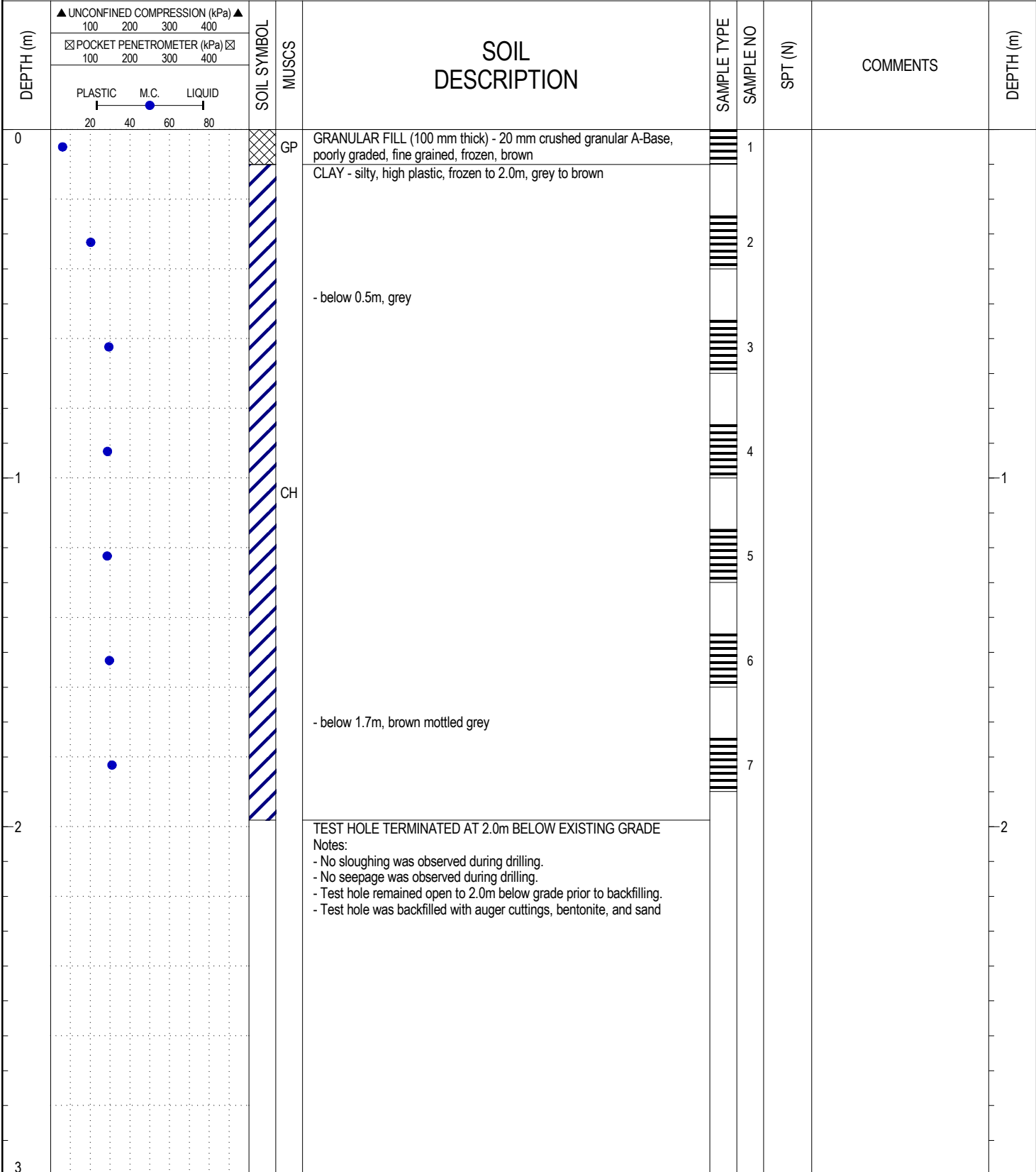


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH09
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input checked="" type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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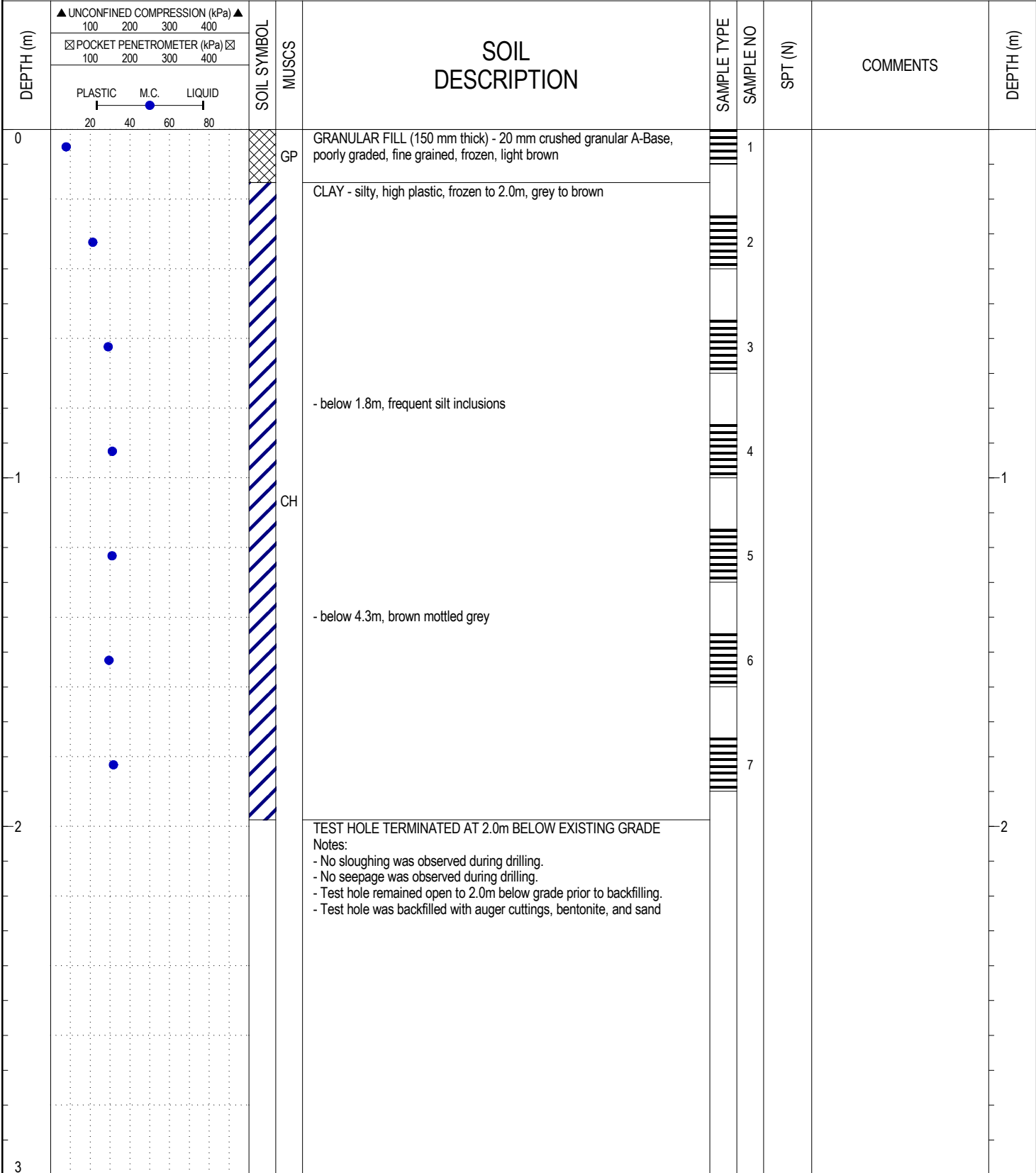


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH10
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input type="checkbox"/> SPT (N)	<input type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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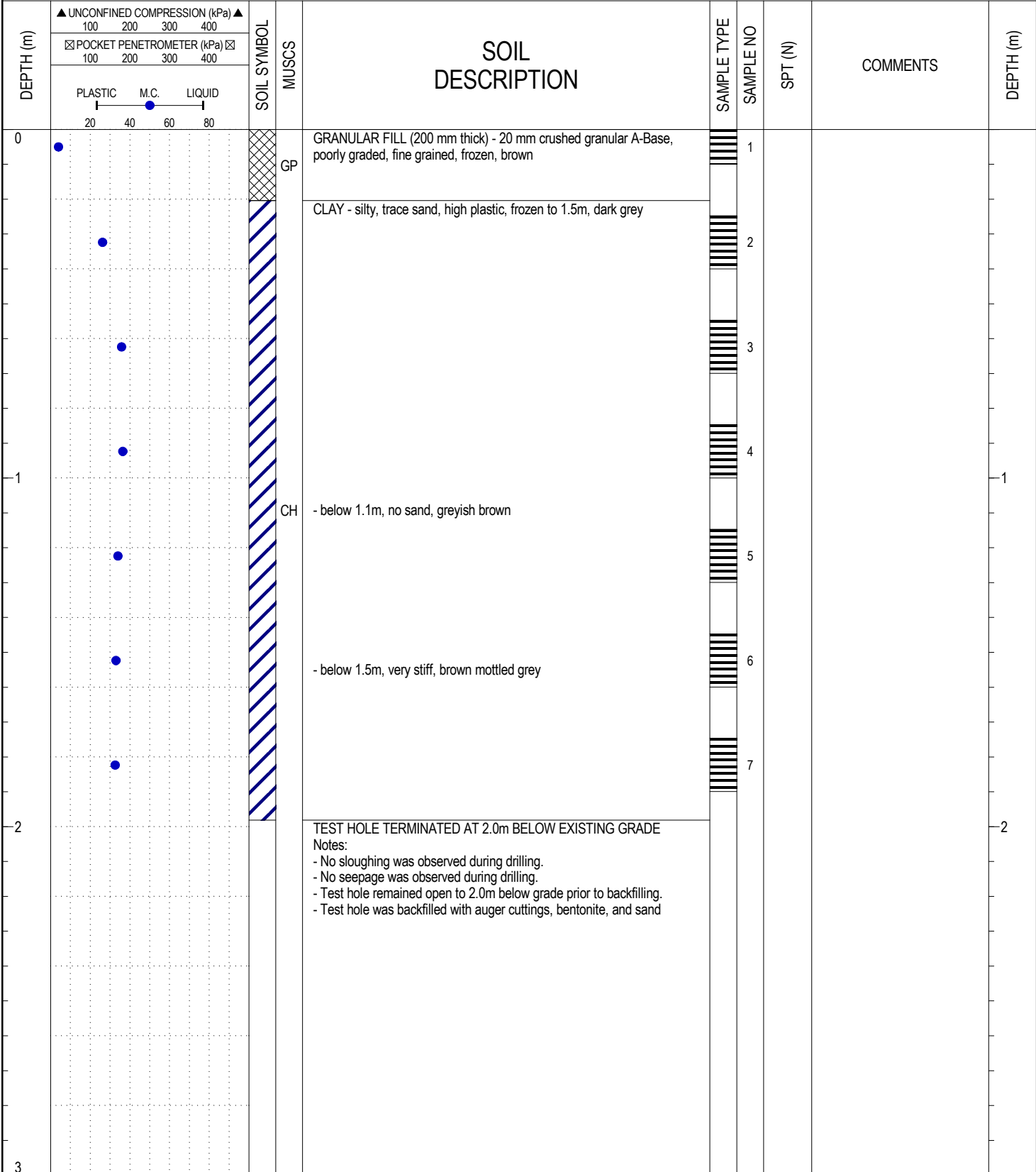


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH11
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input type="checkbox"/> SPT (N)	<input type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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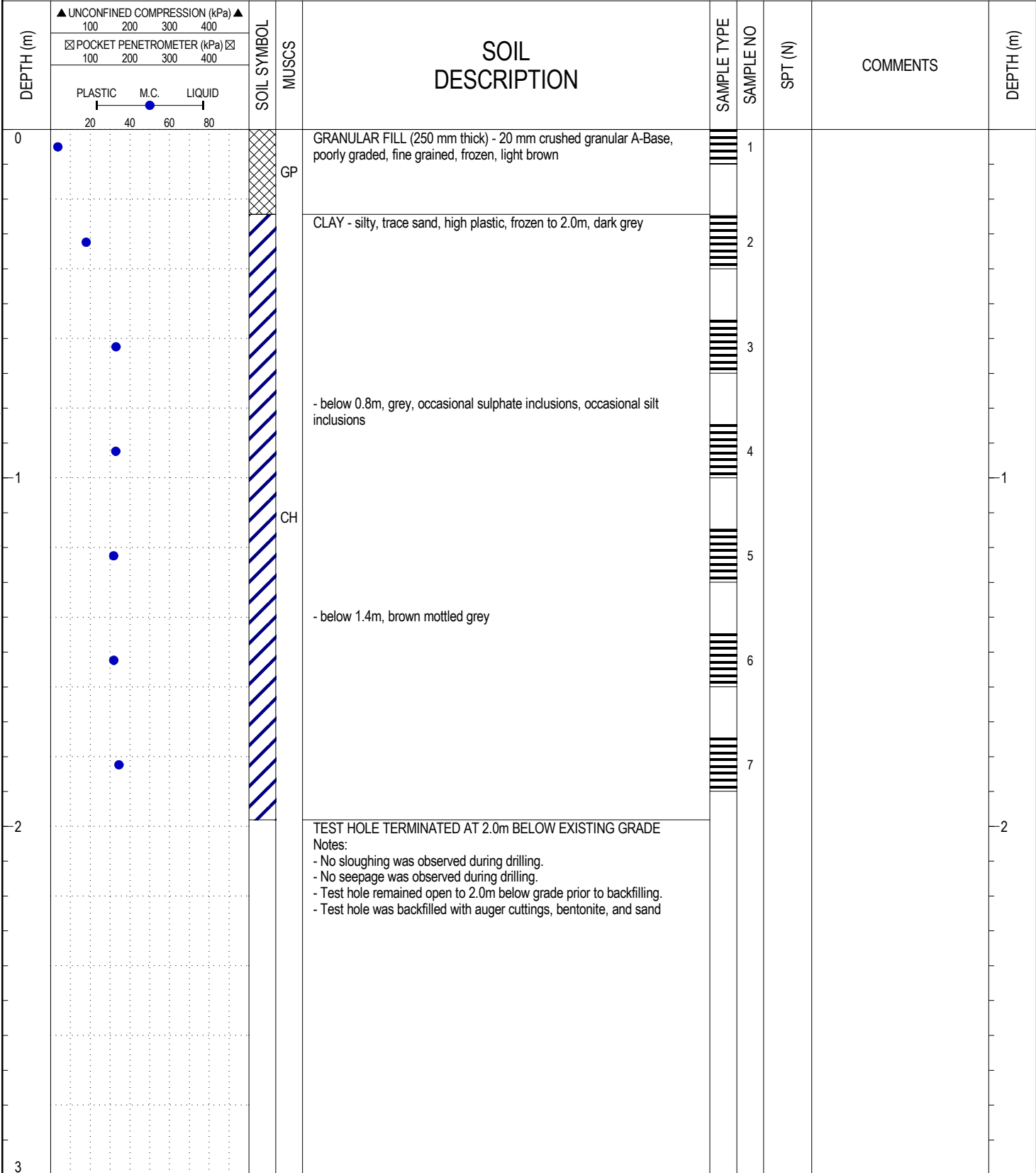


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH12
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

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BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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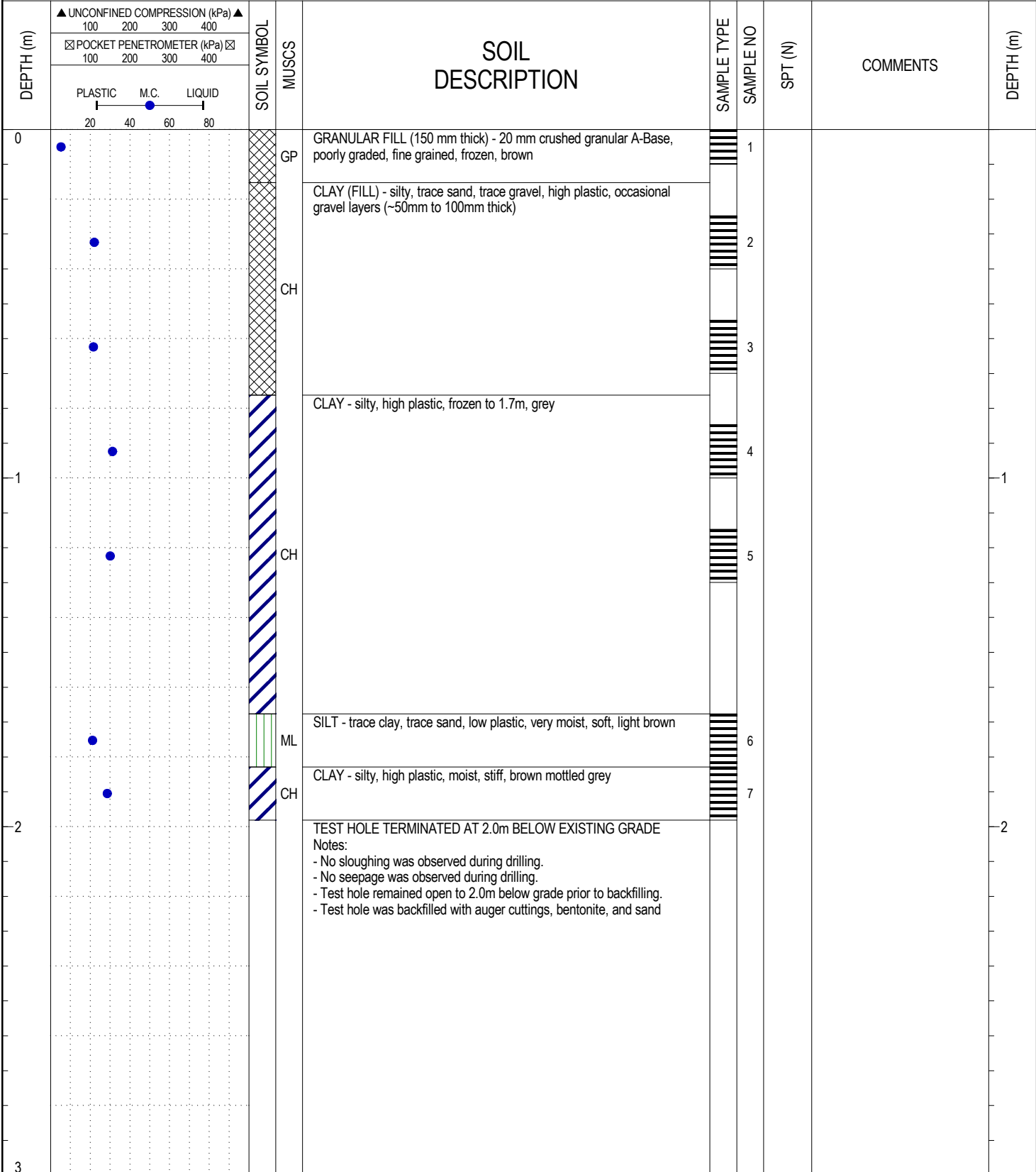


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH13
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

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BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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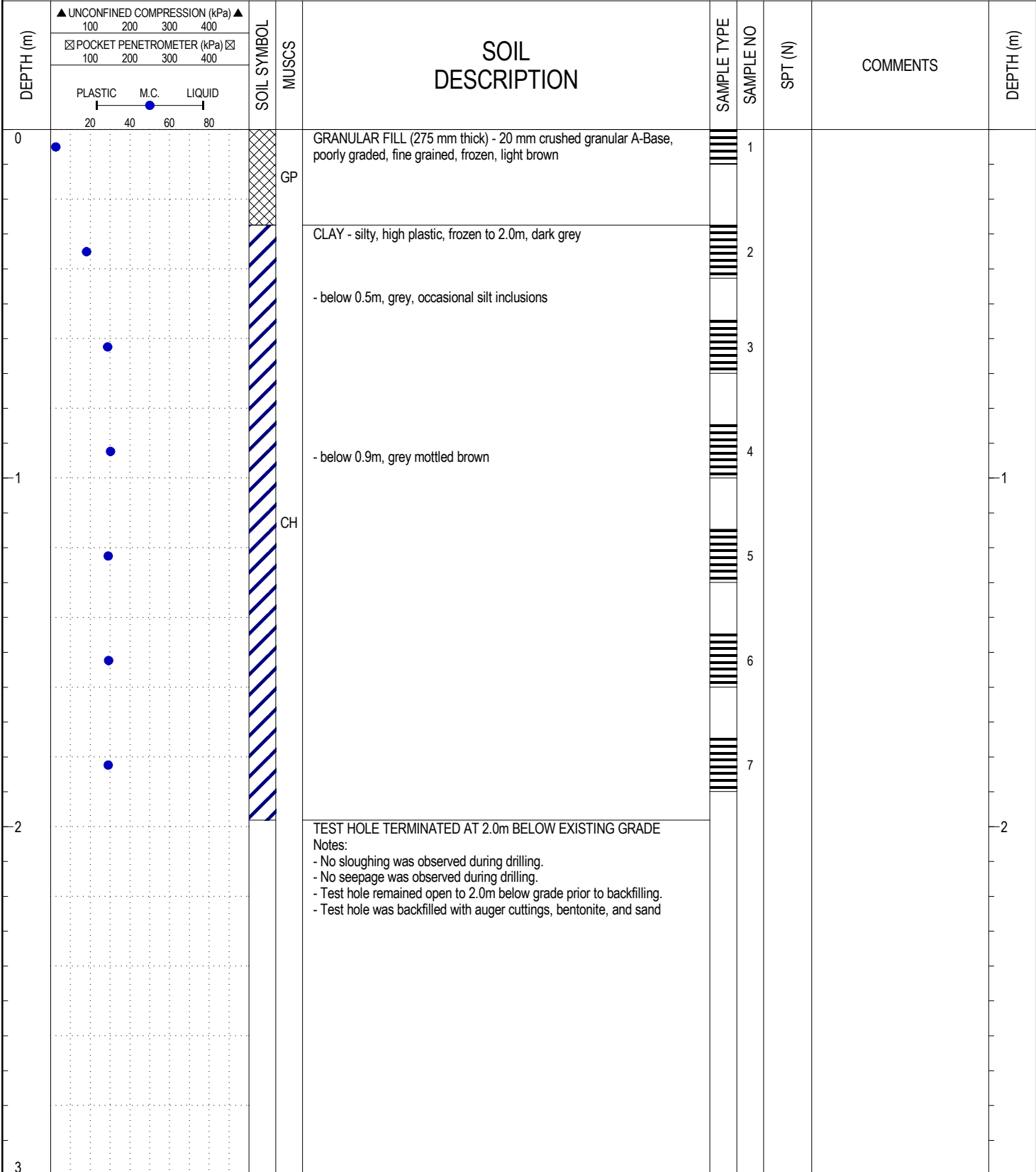


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH14
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input checked="" type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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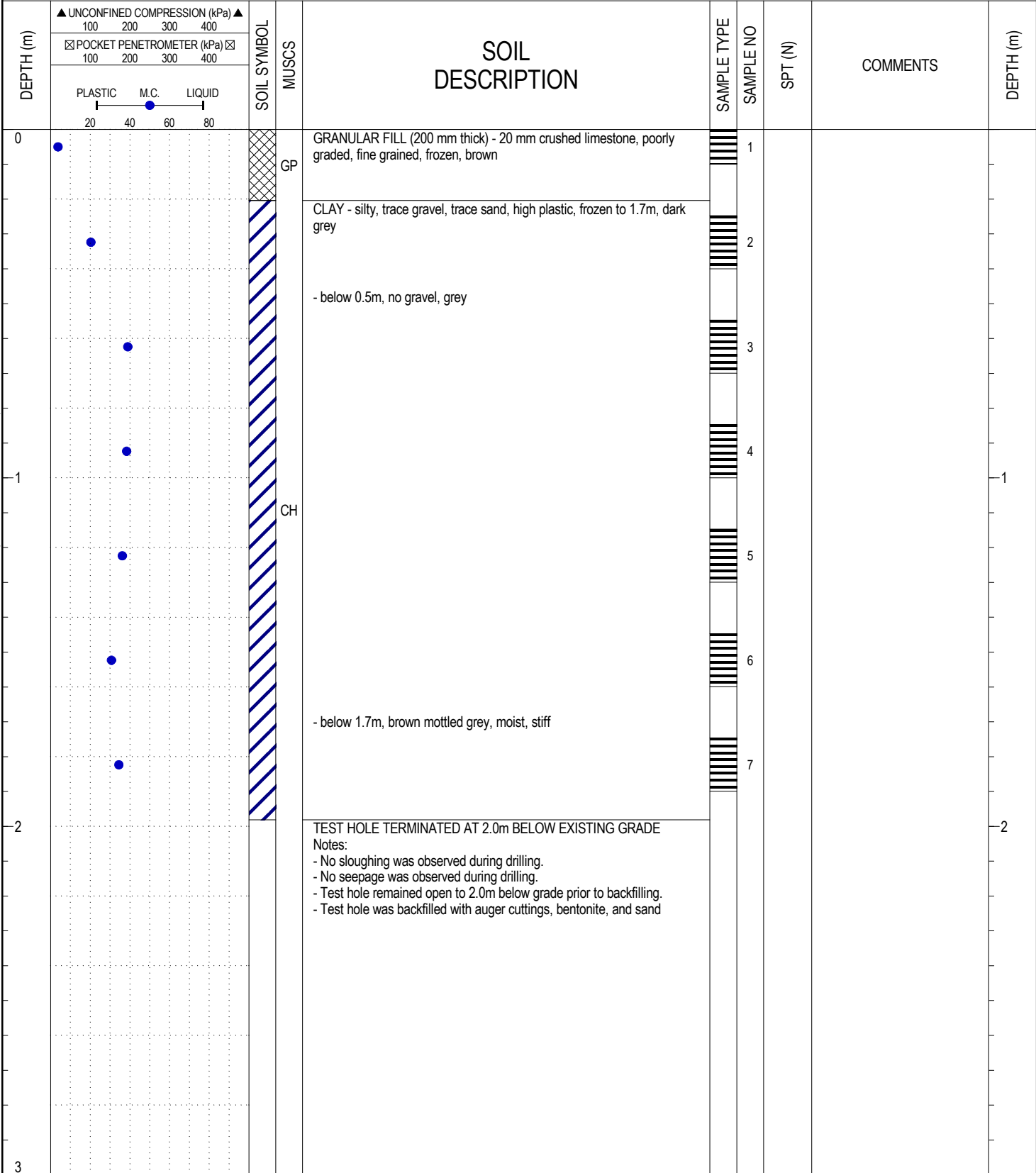


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH15
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input checked="" type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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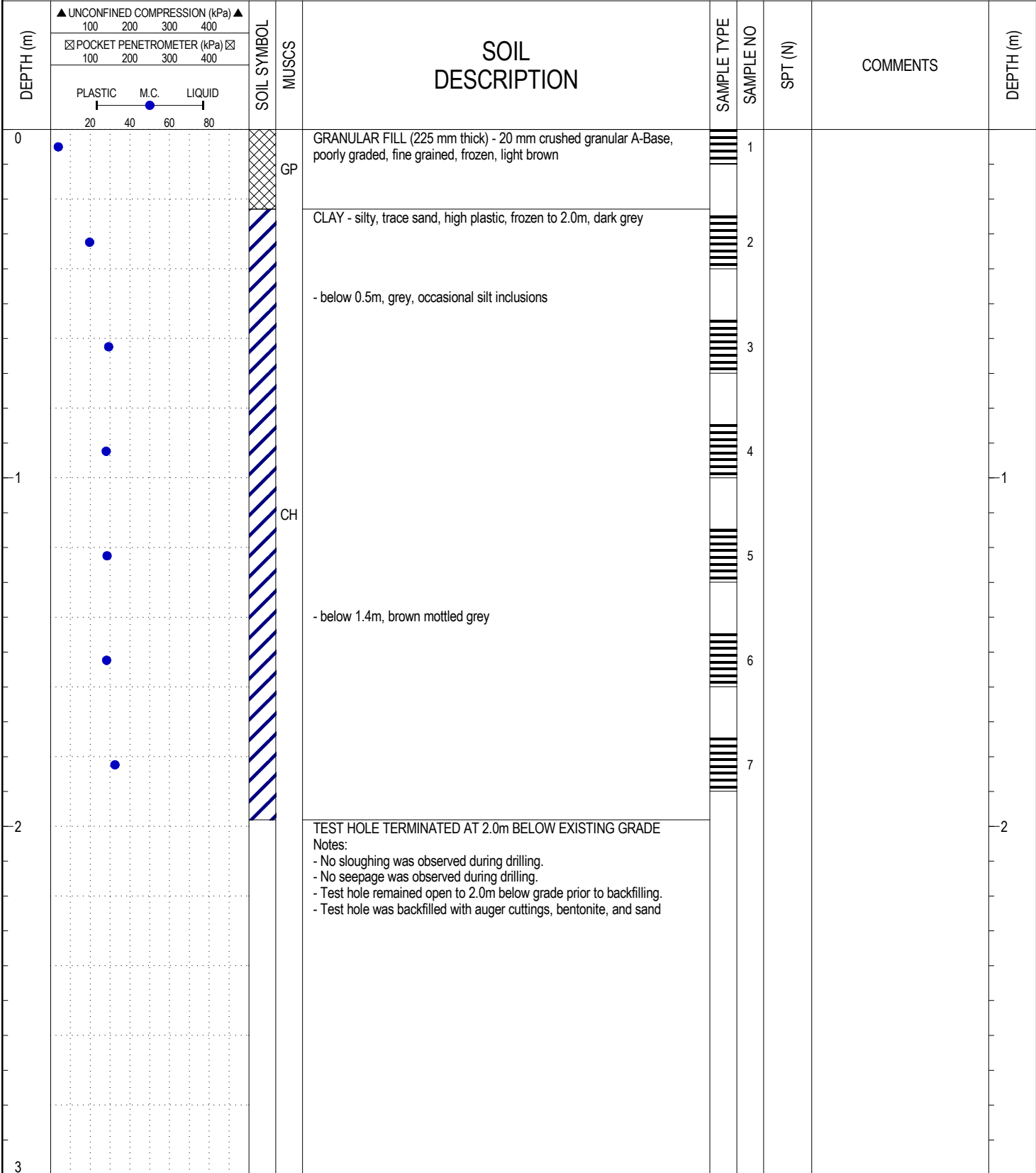


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH16
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

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BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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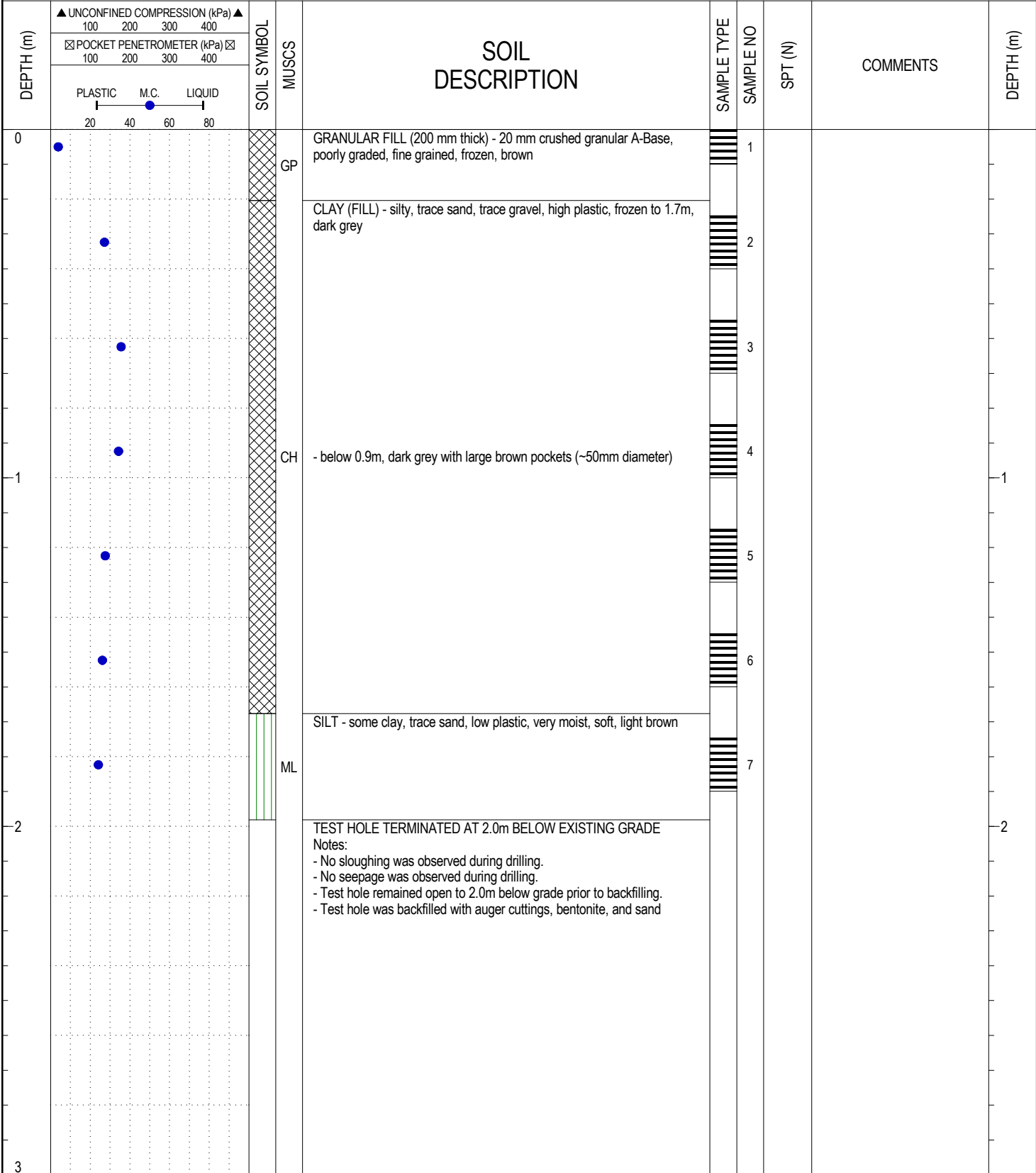


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH17
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

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BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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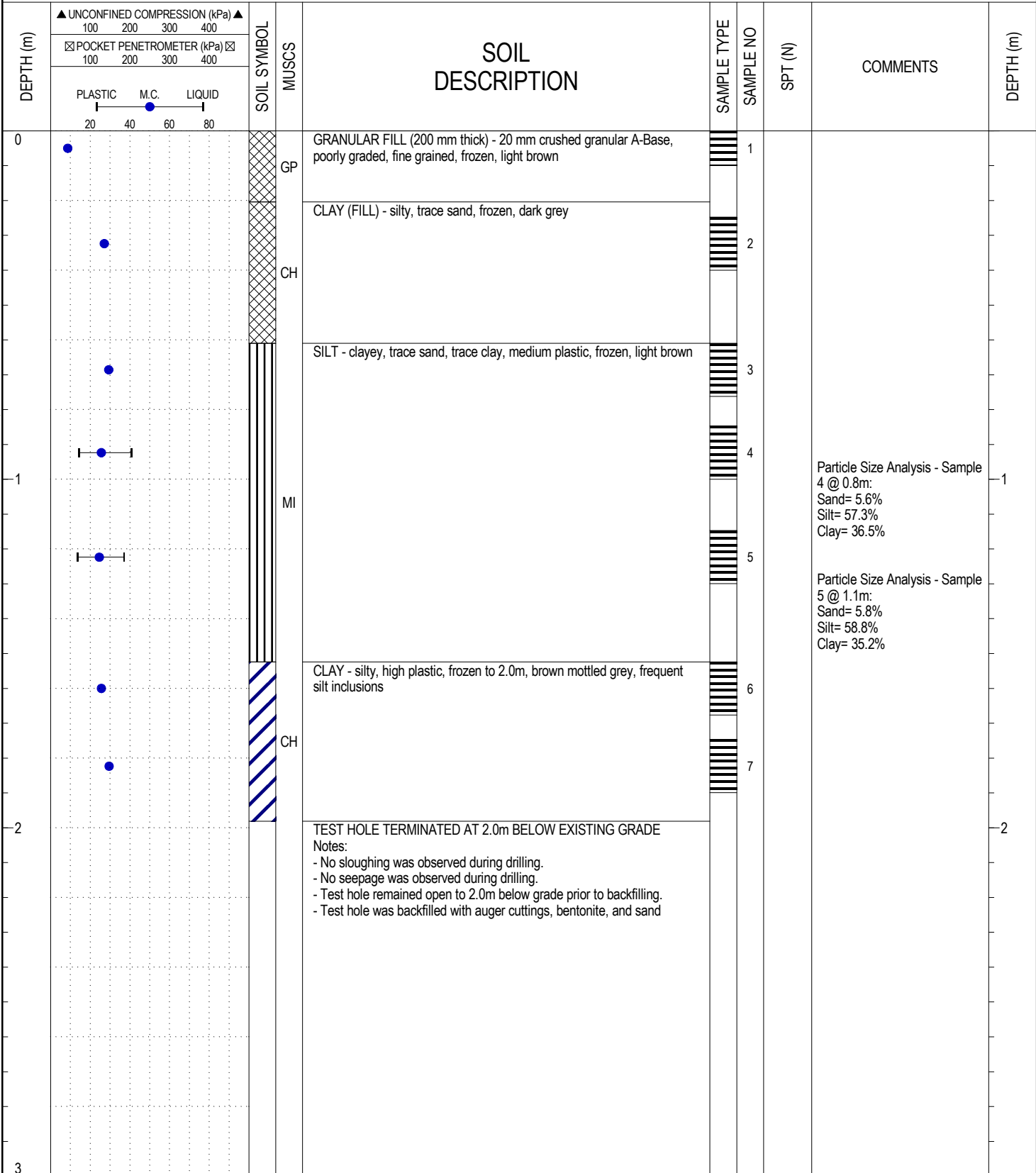


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH18
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

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BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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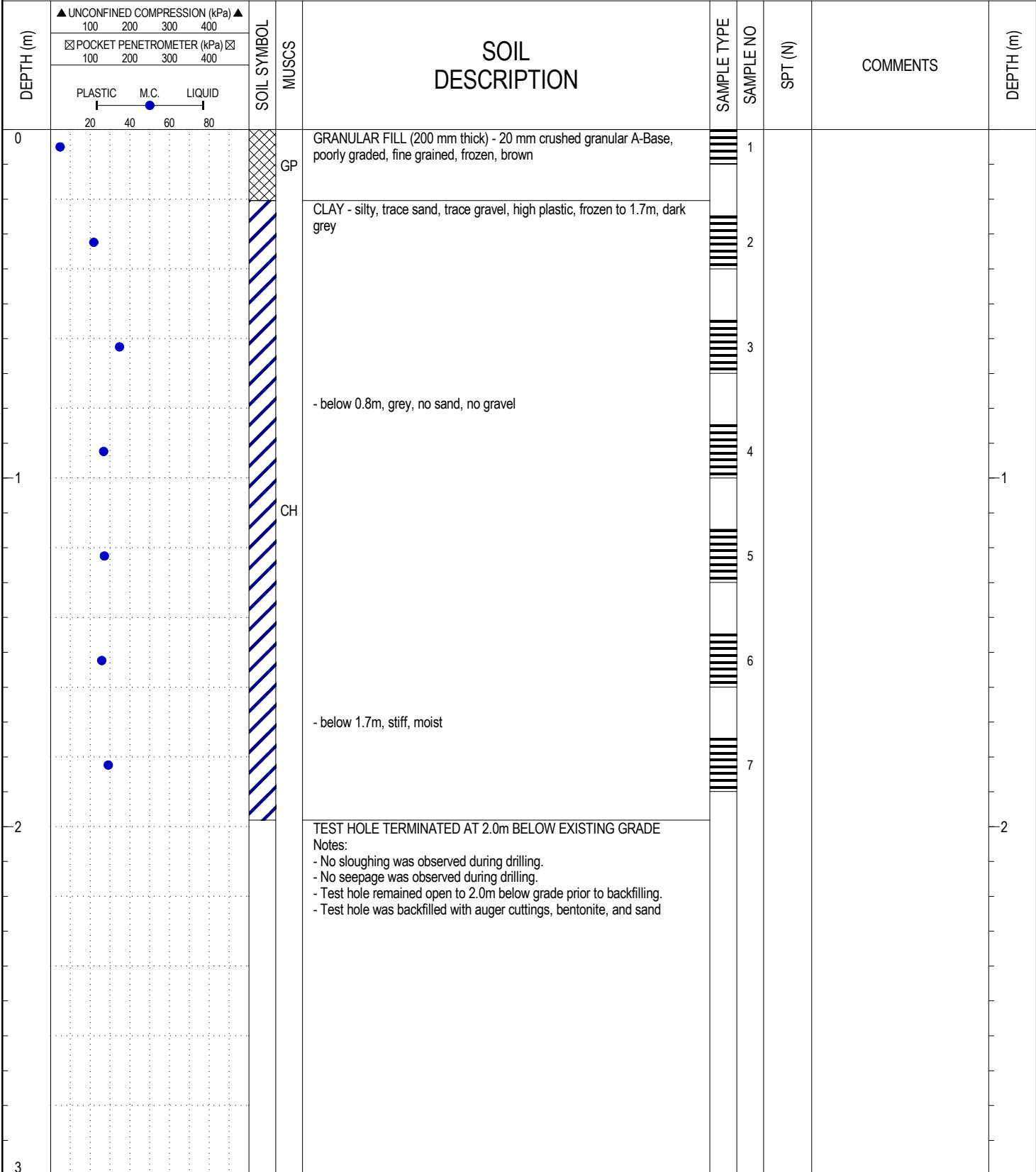


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH19
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

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BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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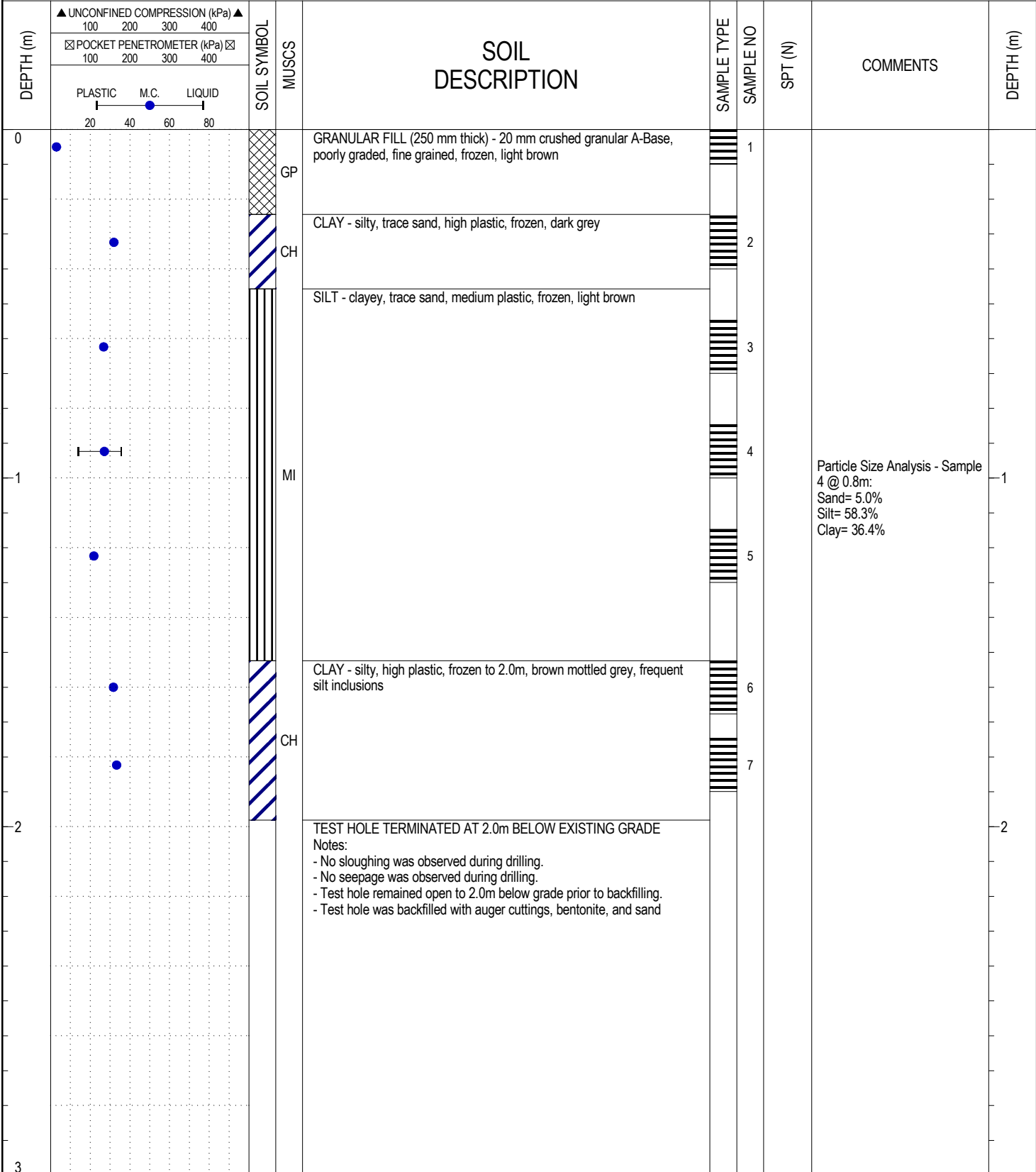


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH20
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

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BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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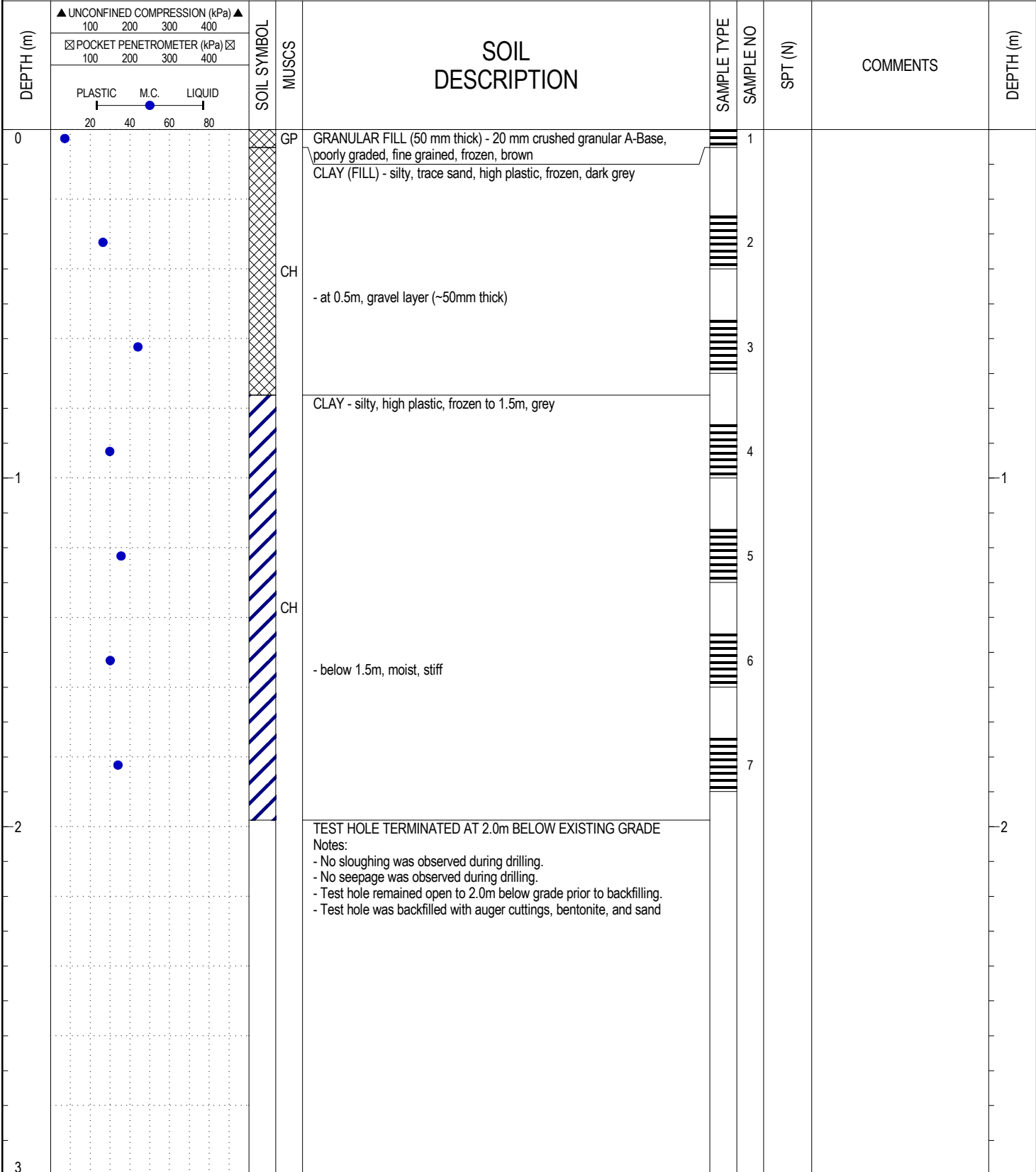


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH21
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input checked="" type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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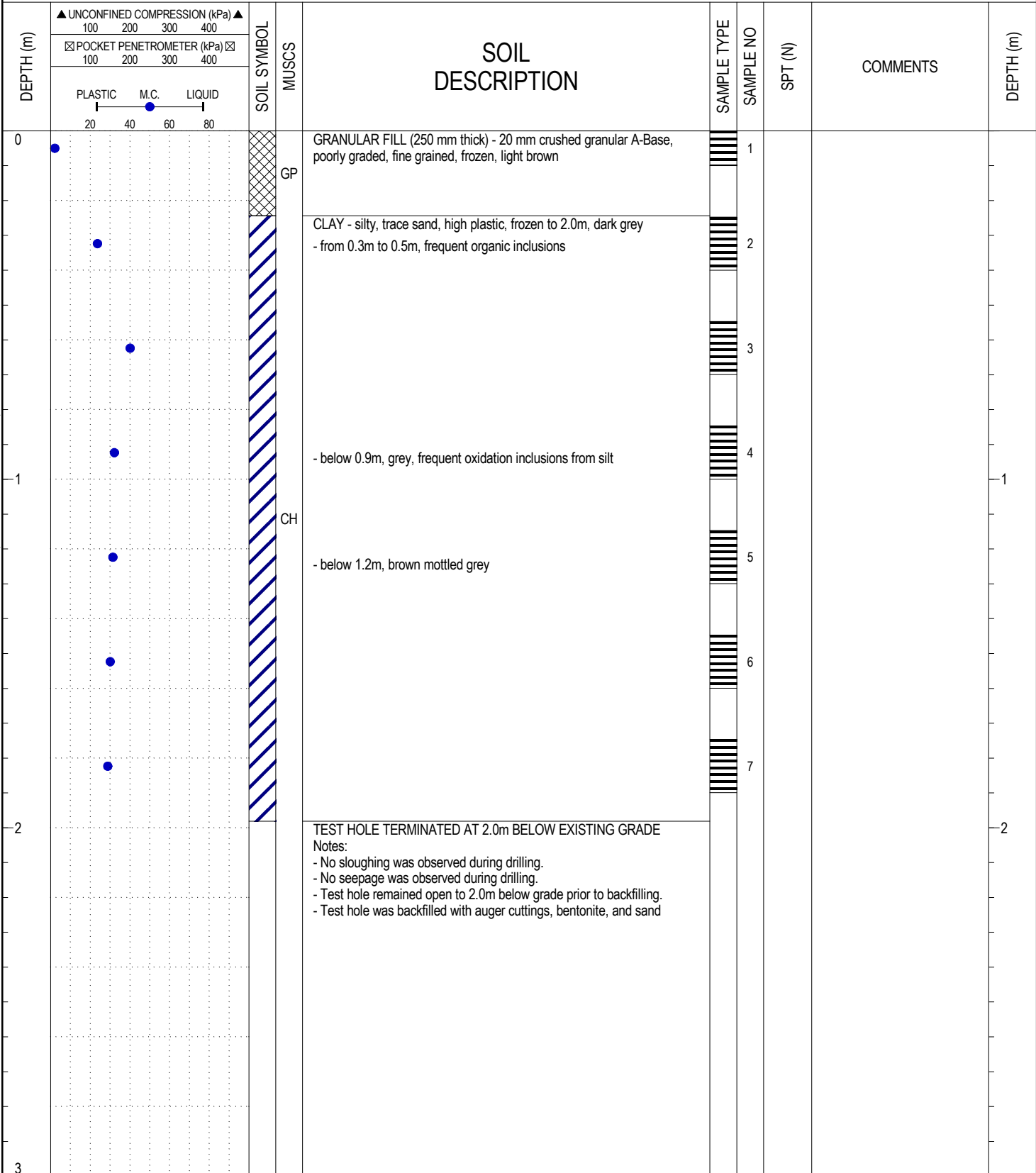


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH22
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input checked="" type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



WX18717 DILLON CONSTRUCTION - CITY OF WINNIPEG STREET INVESTIGATION - WAVERLEY STREET.GPJ 19/03/04 03:03 PM (WPG - GEOTECH LOG 1)

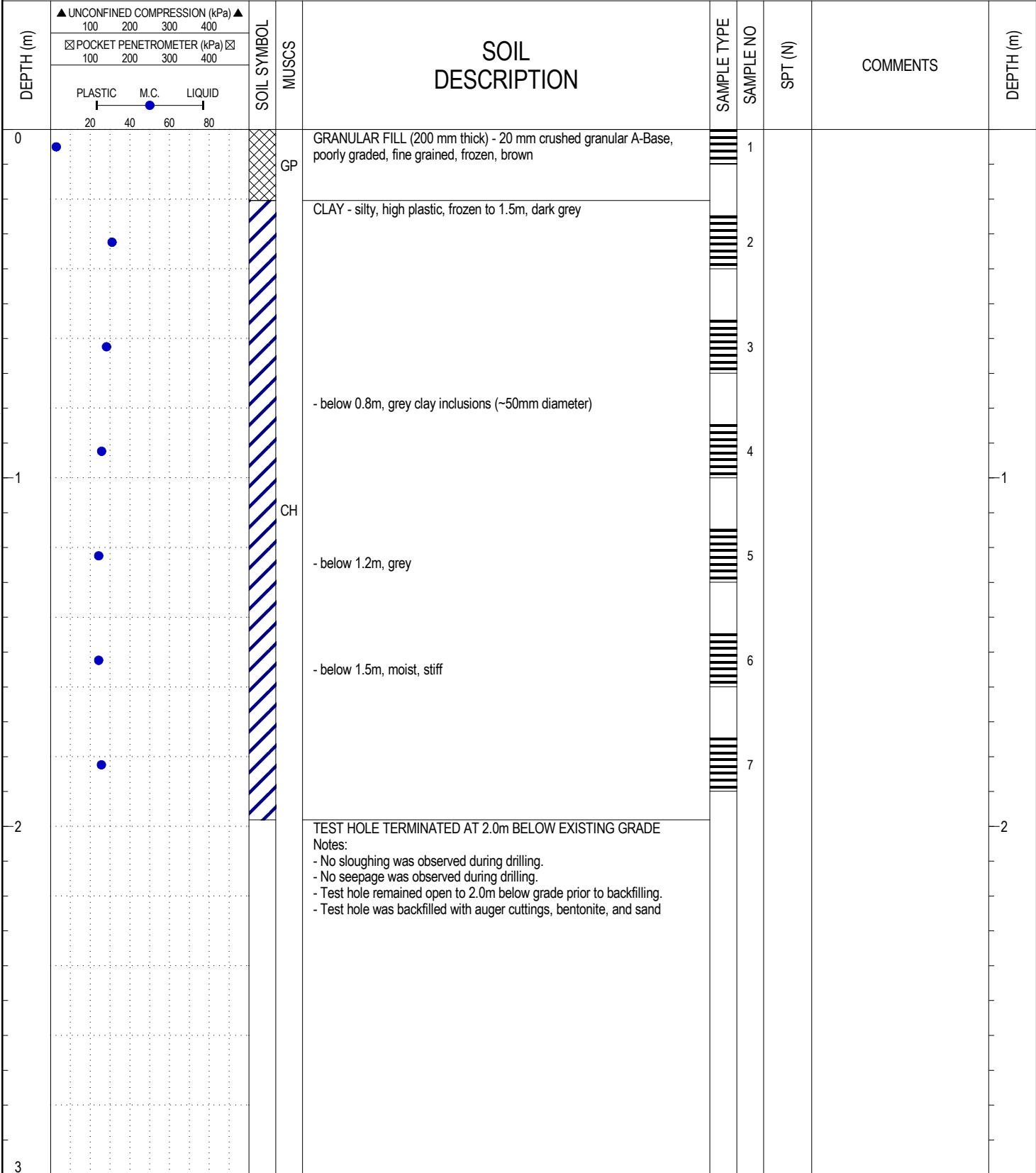


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH23
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

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BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



WX18717 DILLON CONSTRUCTION - CITY OF WINNIPEG STREET INVESTIGATION - WAVERLEY STREET.GPJ 19/03/04 03:03 PM (WPG - GEOTECH LOG 1)

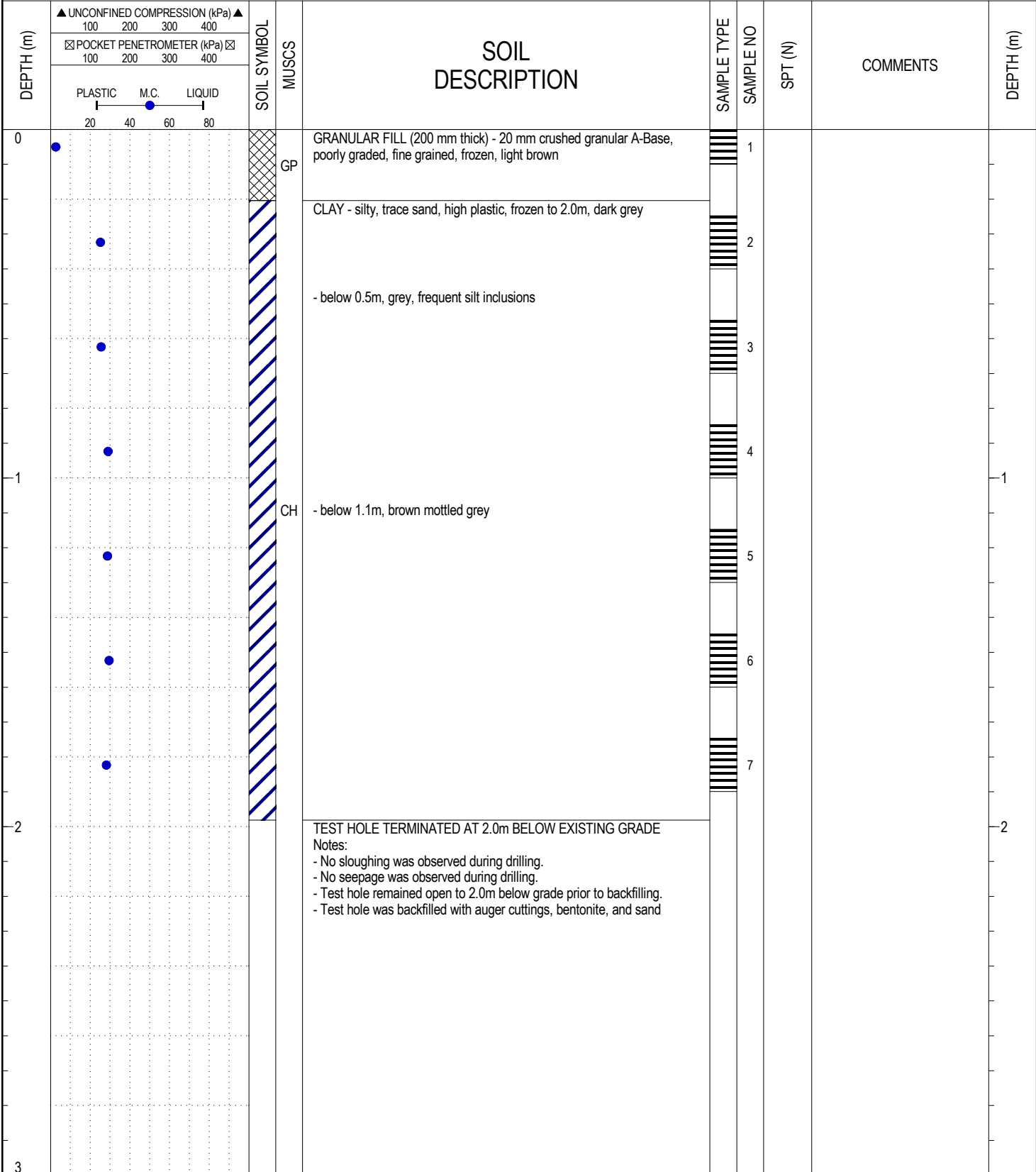


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH24
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

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BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



WX18717 DILLON CONSTRUCTION - CITY OF WINNIPEG STREET INVESTIGATION - WAVERLEY STREET.GPJ 19/03/04 03:03 PM (WPG - GEOTECH LOG 1)

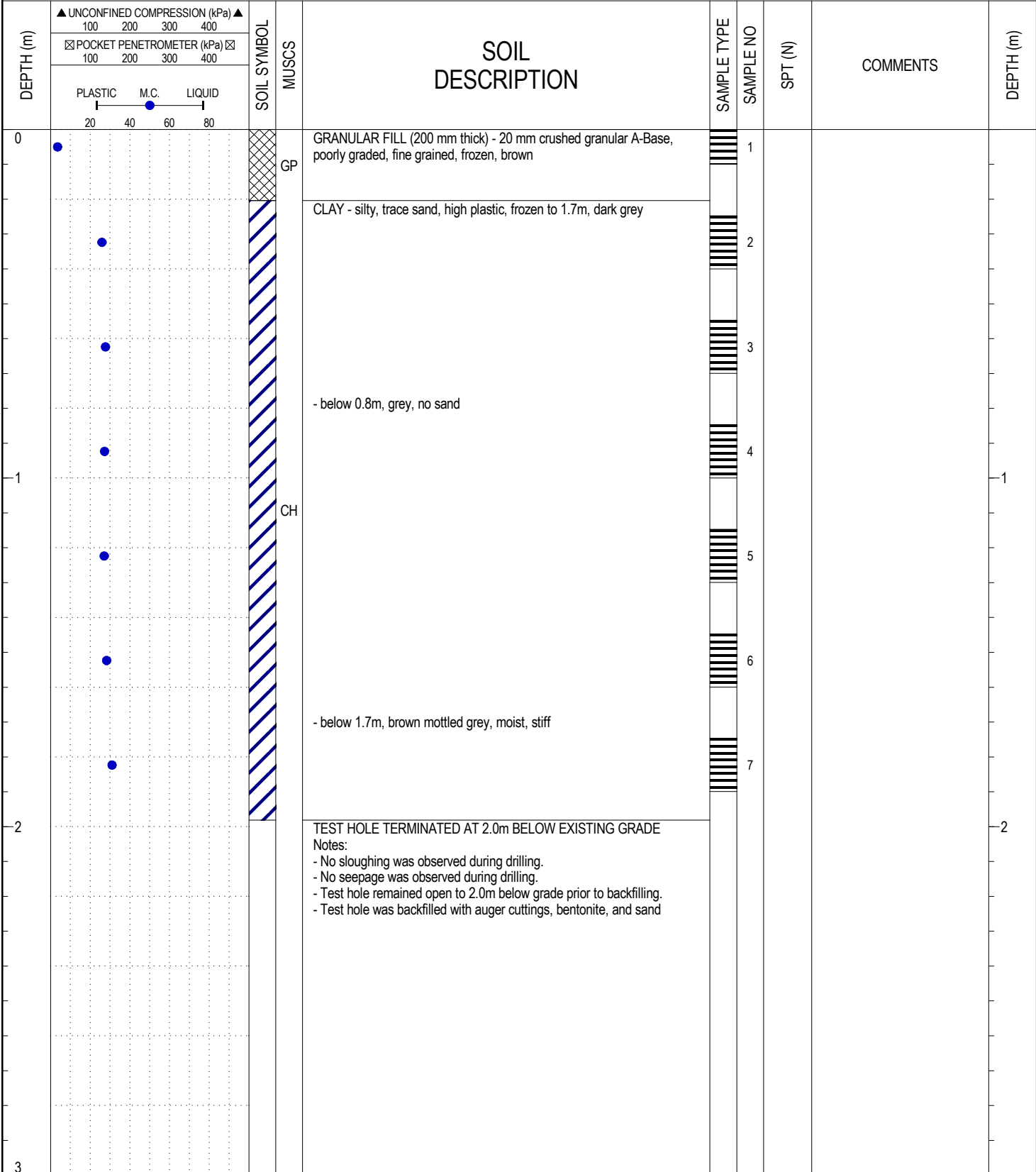


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH25
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input checked="" type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



WX18717 DILLON CONSTRUCTION - CITY OF WINNIPEG STREET INVESTIGATION - WAVERLEY STREET.GPJ 19/03/04 03:03 PM (WPG - GEOTECH LOG 1)

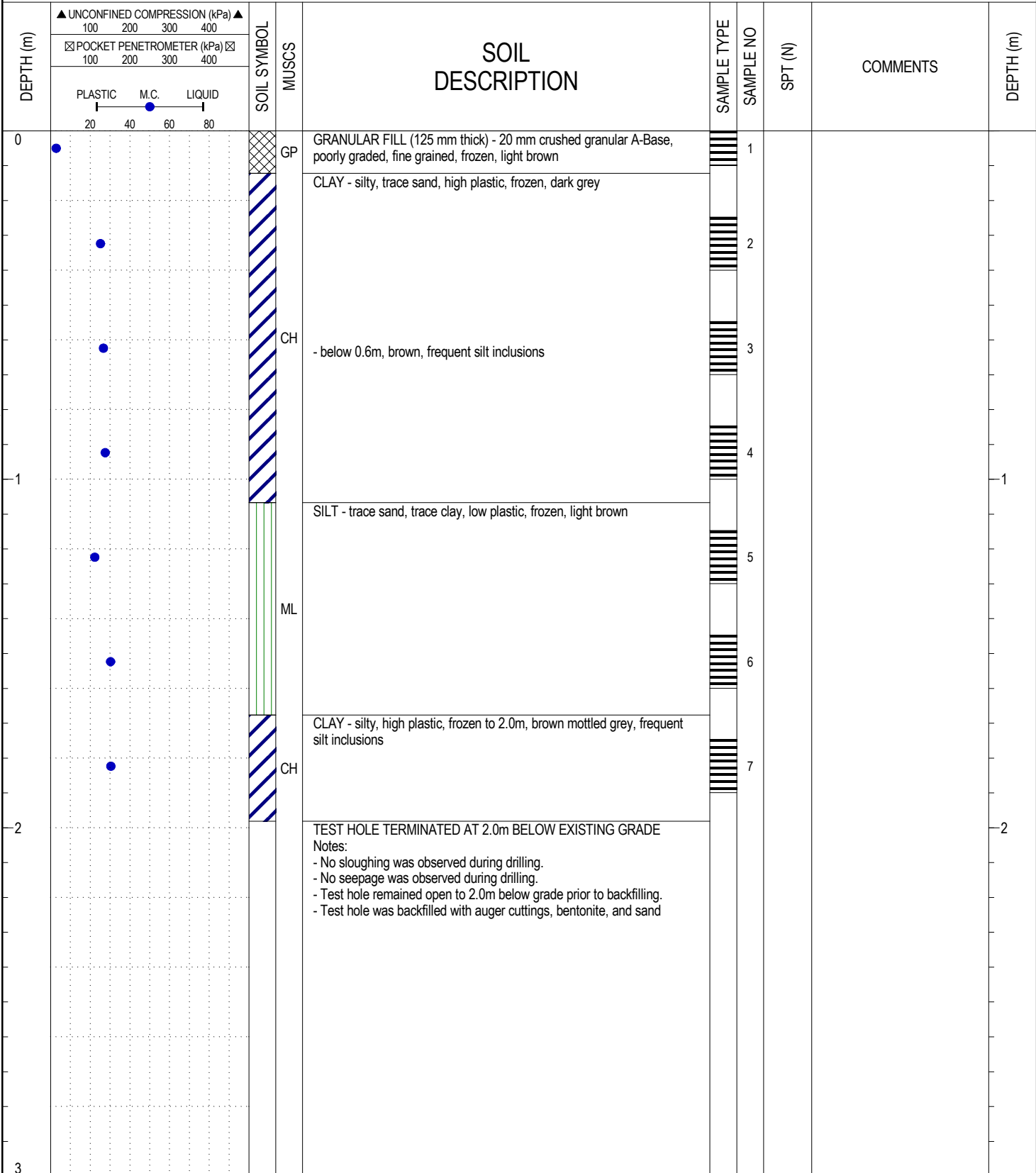


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH26
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input type="checkbox"/> SPT (N)	<input type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



WX18717 DILLON CONSTRUCTION - CITY OF WINNIPEG STREET INVESTIGATION - WAVERLEY STREET.GPJ 19/03/04 03:03 PM (WPG - GEOTECH LOG 1)

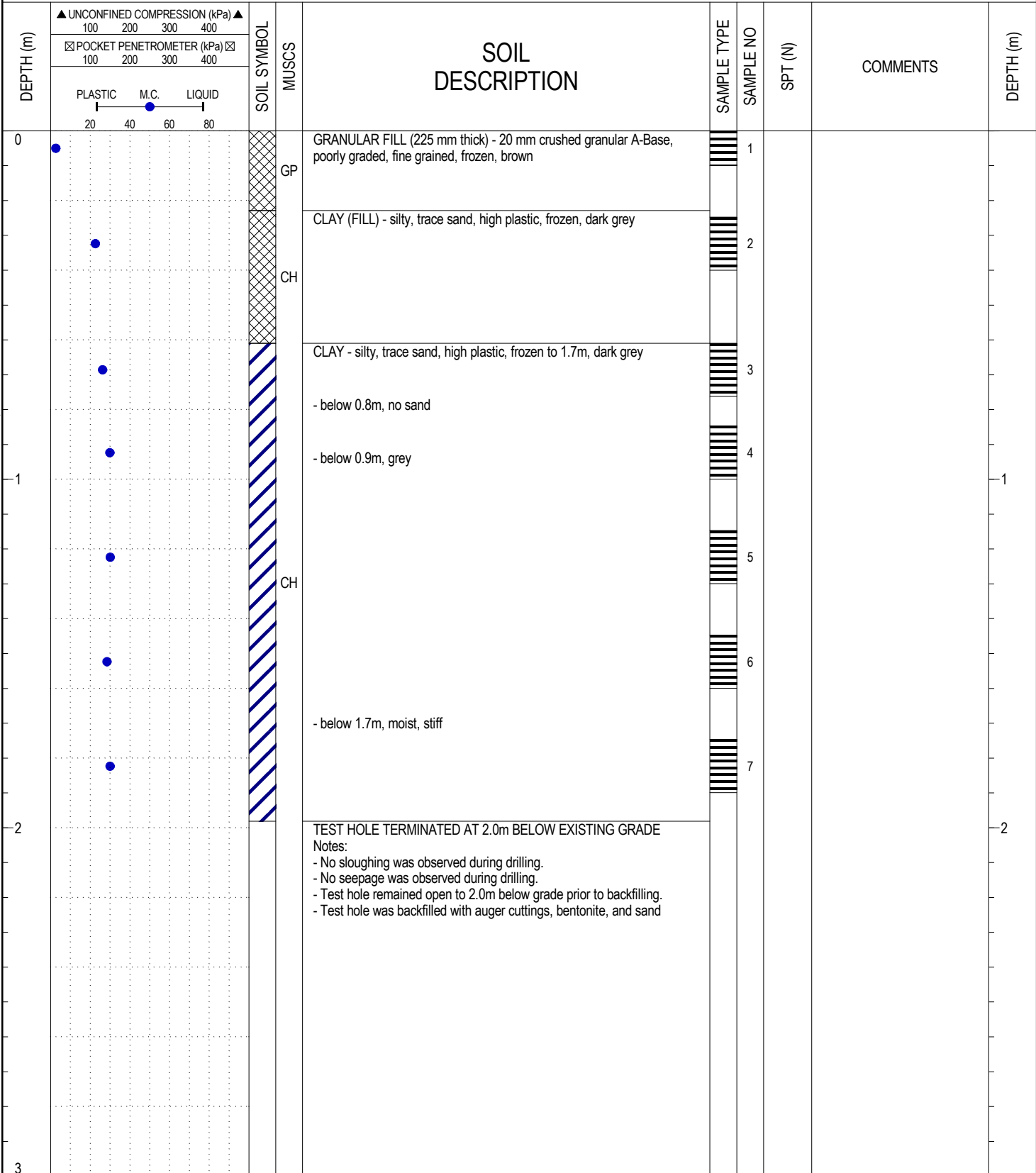


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH27
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input checked="" type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



WX18717 DILLON CONSTRUCTION - CITY OF WINNIPEG STREET INVESTIGATION - WAVERLEY STREET.GPJ 19/03/04 03:04 PM (WPG - GEOTECH LOG 1)

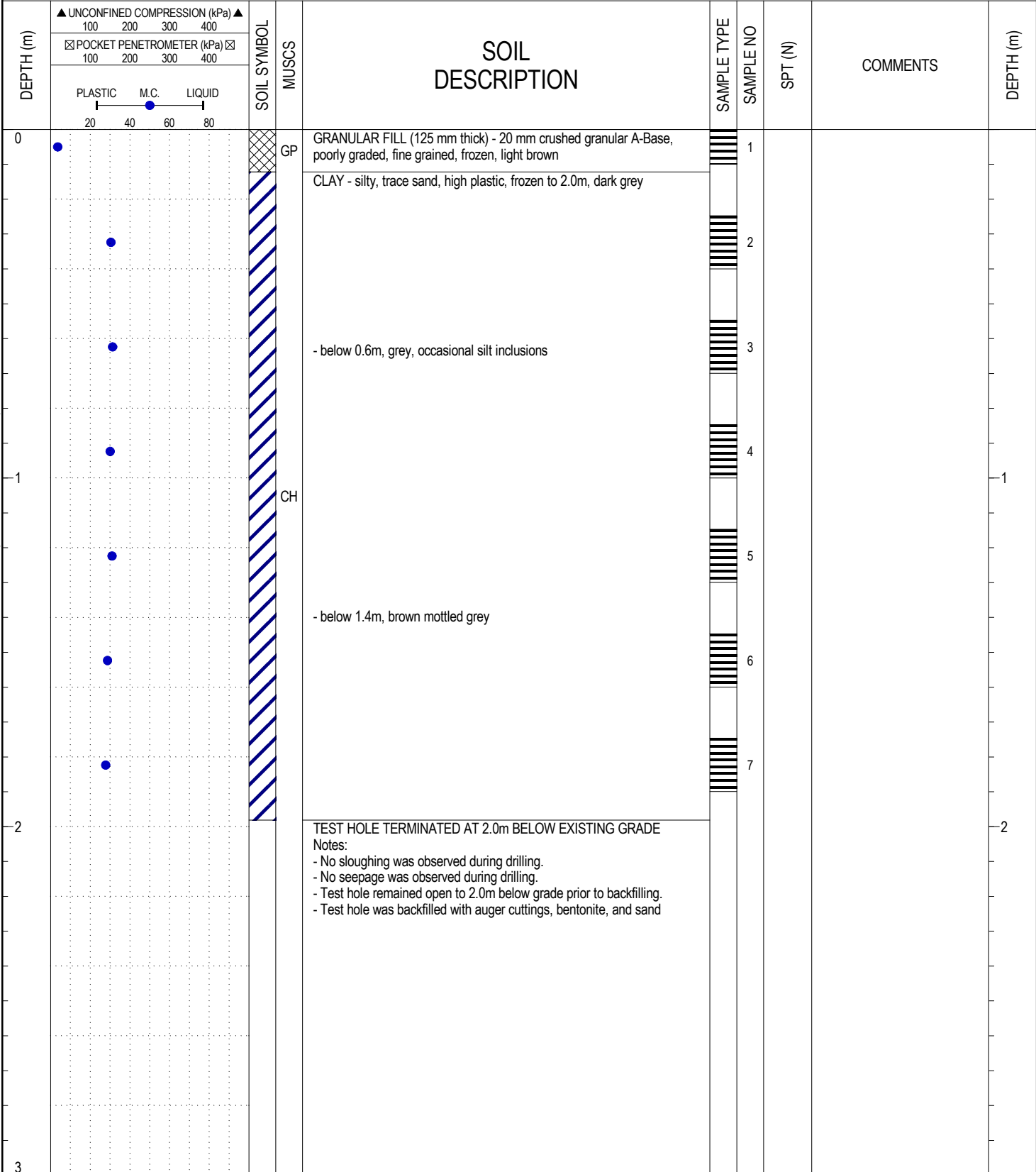


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH28
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input checked="" type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



WX18717 DILLON CONSTRUCTION - CITY OF WINNIPEG STREET INVESTIGATION - WAVERLEY STREET.GPJ 19/03/04 03:04 PM (WPG - GEOTECH LOG 1)

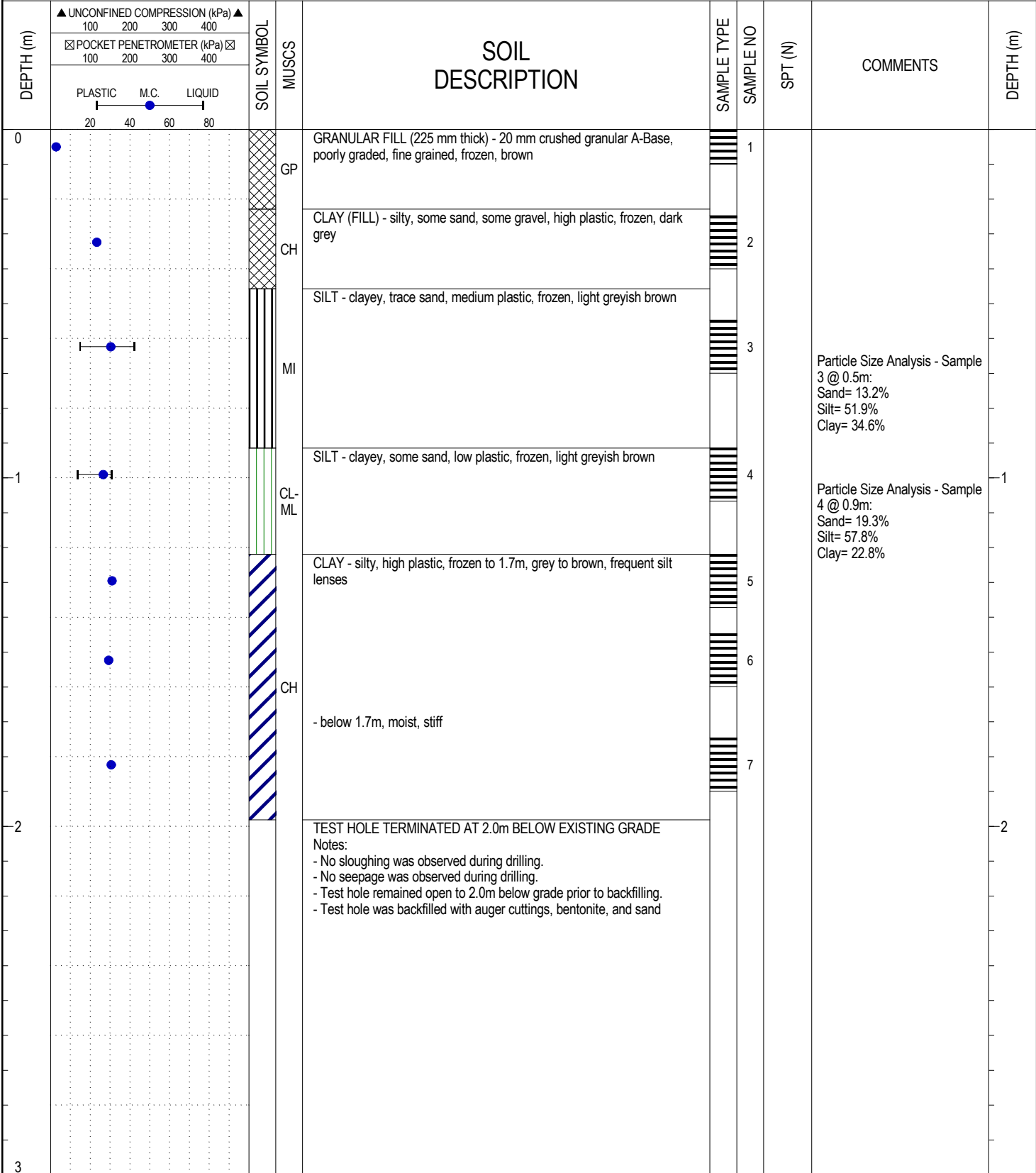


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH29
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input type="checkbox"/> SPT (N)	<input type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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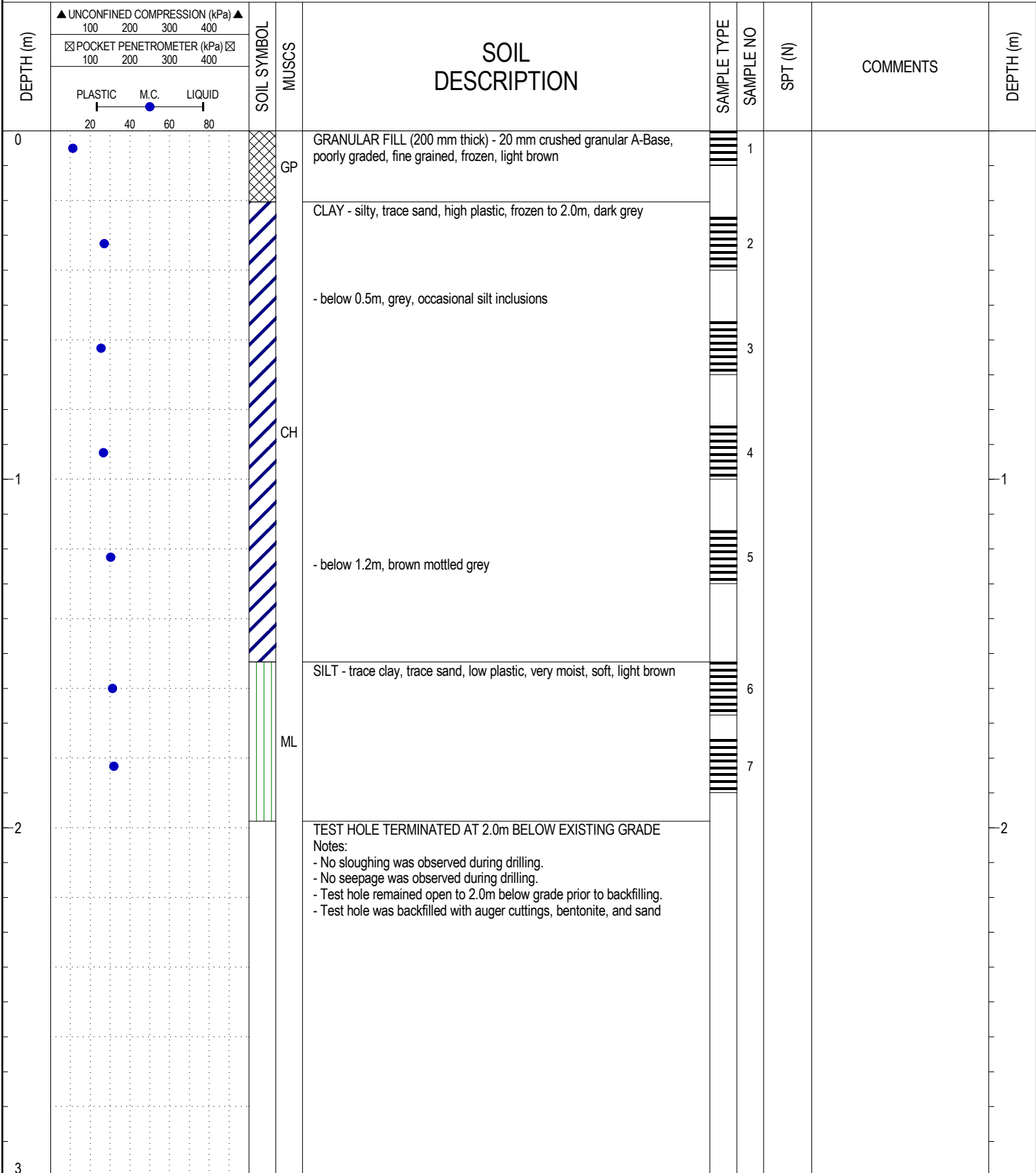


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH30
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input checked="" type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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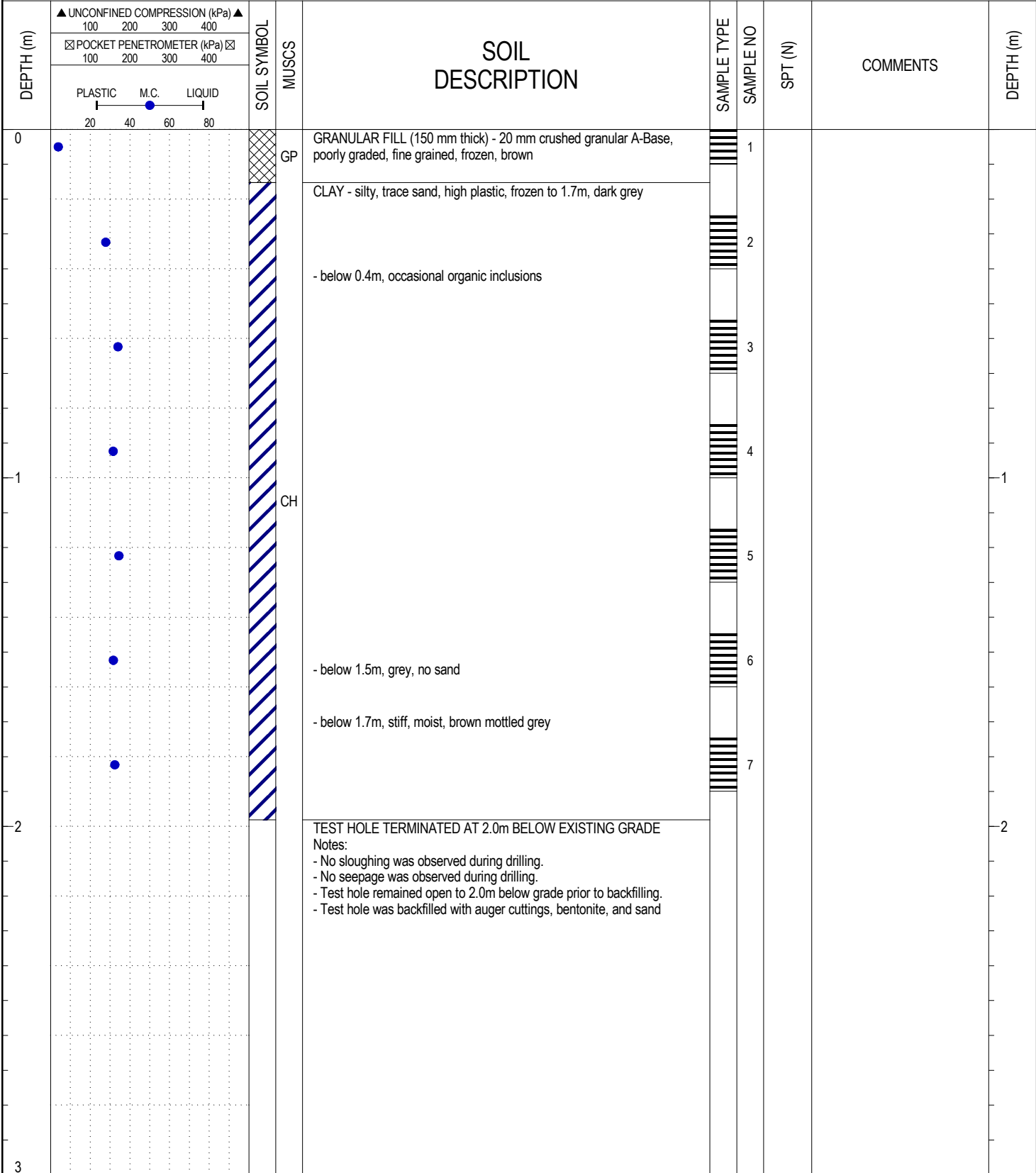


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH31
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input checked="" type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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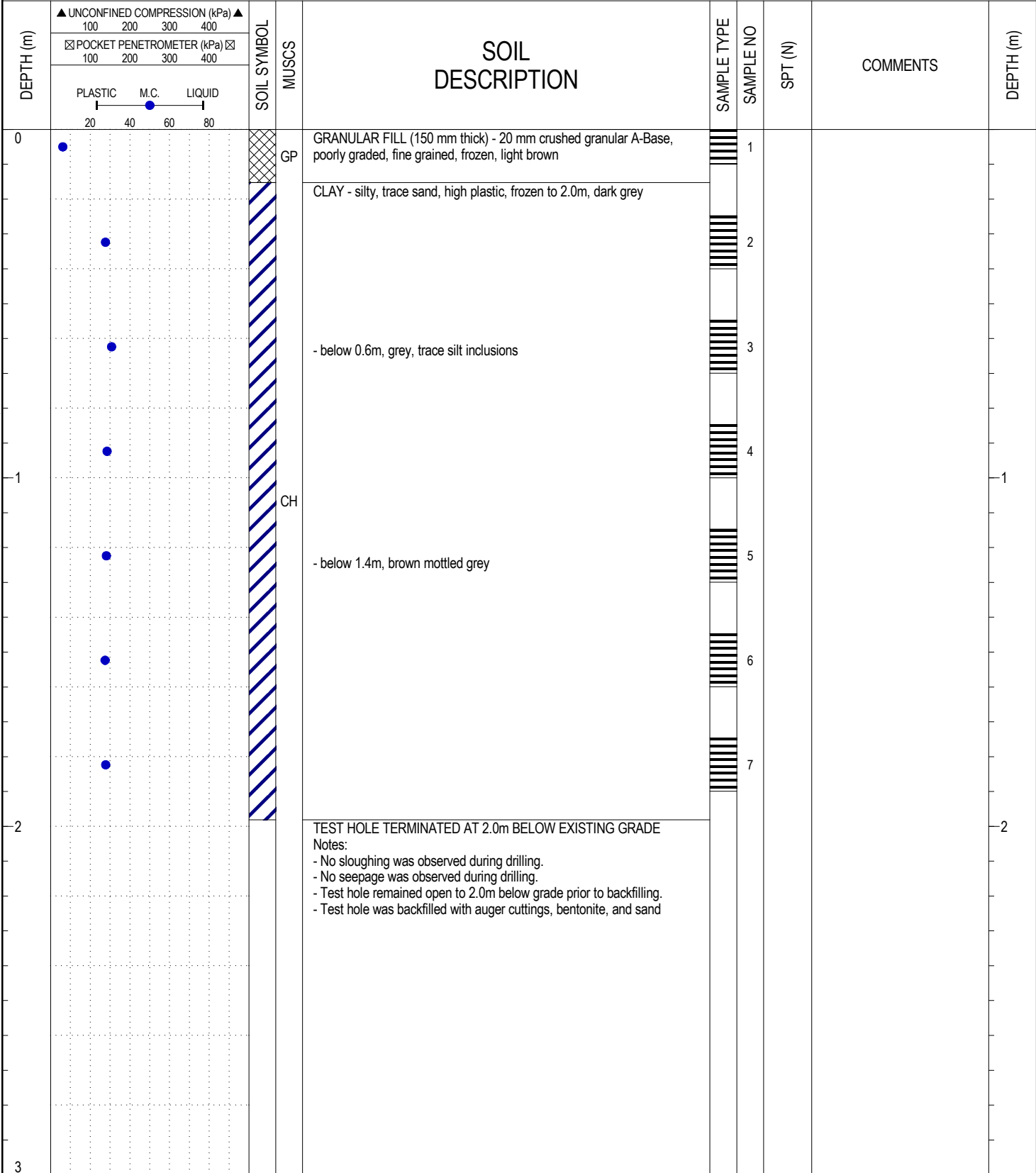


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH32
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input checked="" type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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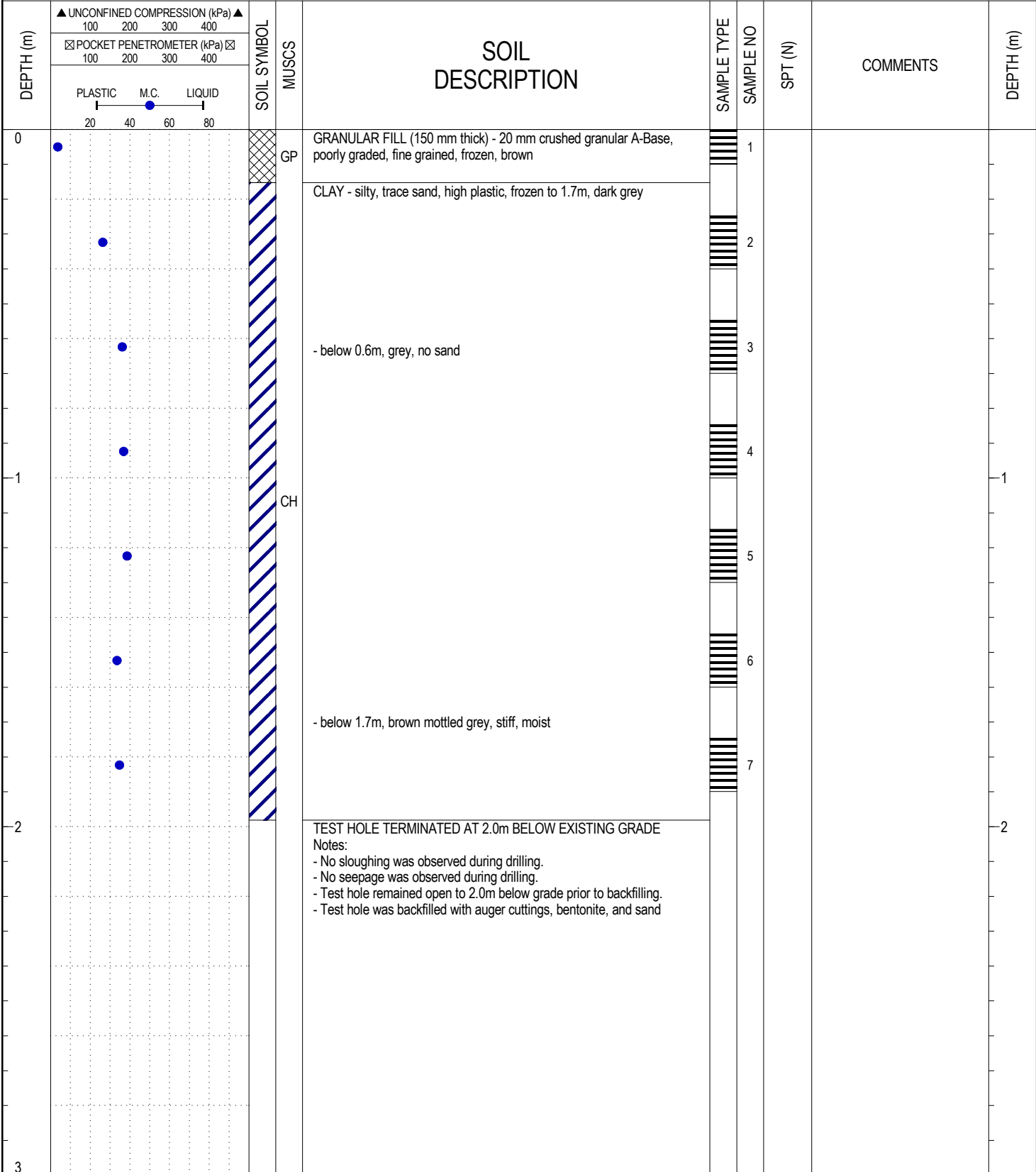


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH33
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input checked="" type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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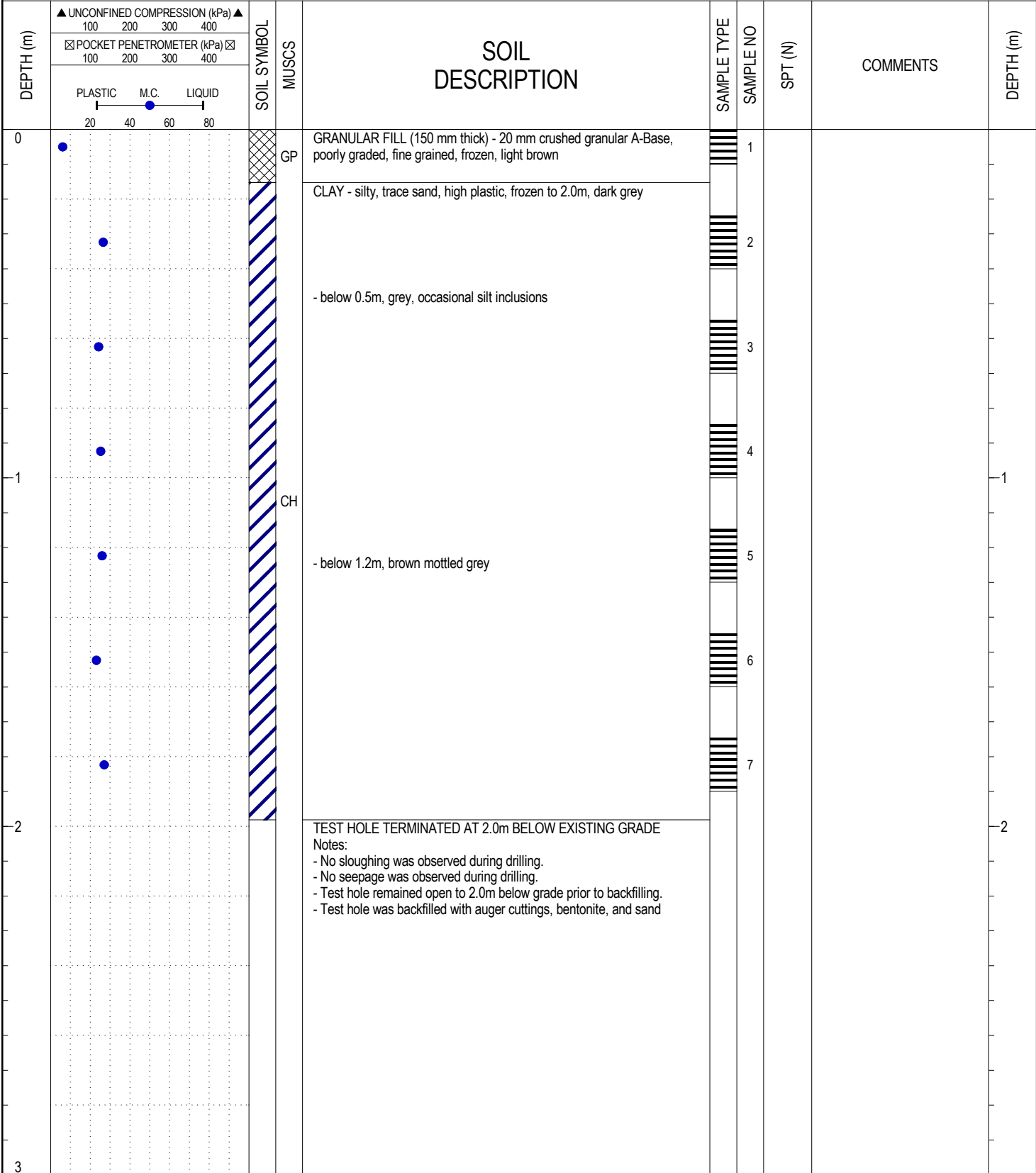


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH34
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input checked="" type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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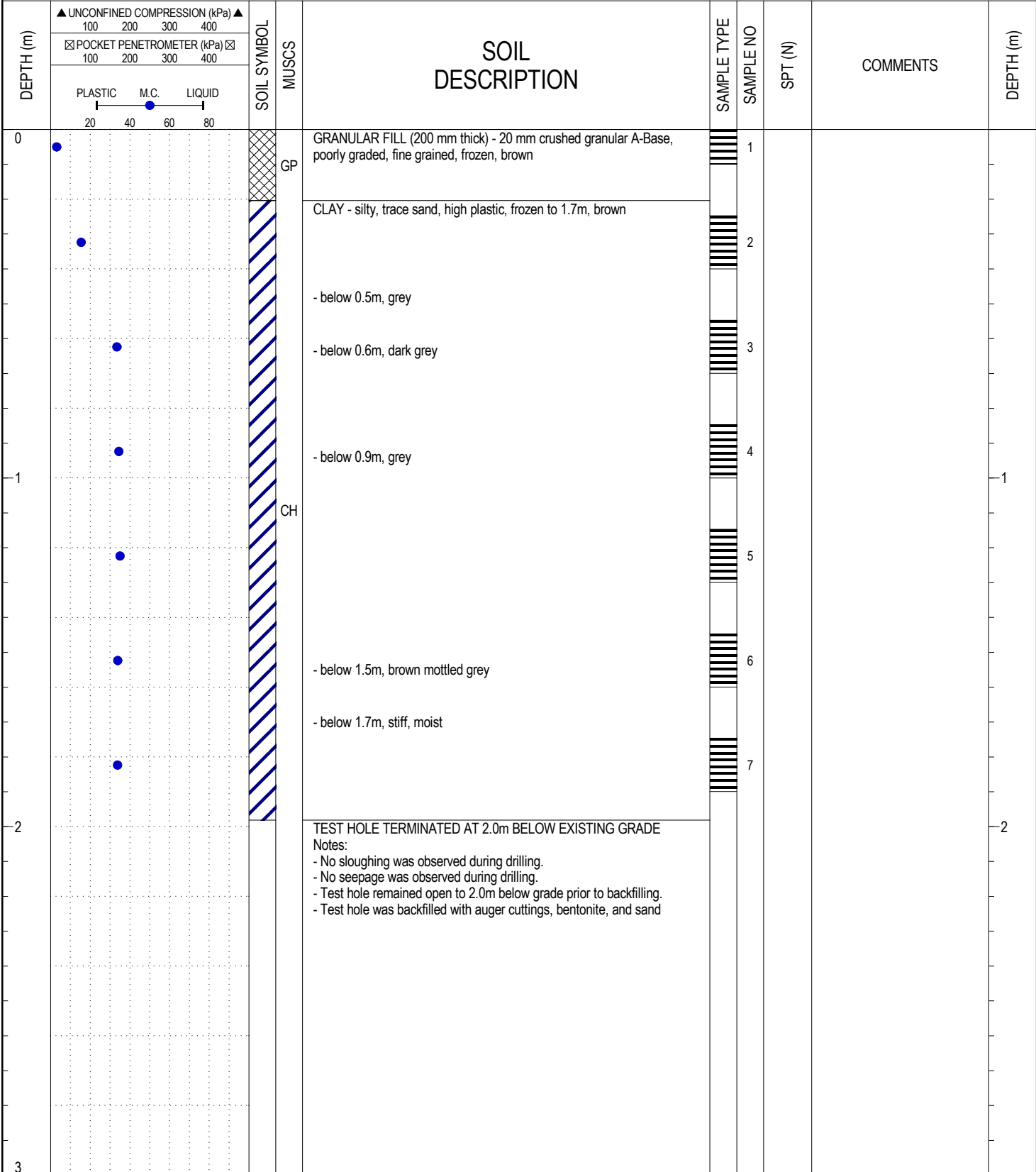


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH35
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input type="checkbox"/> SPT (N)	<input type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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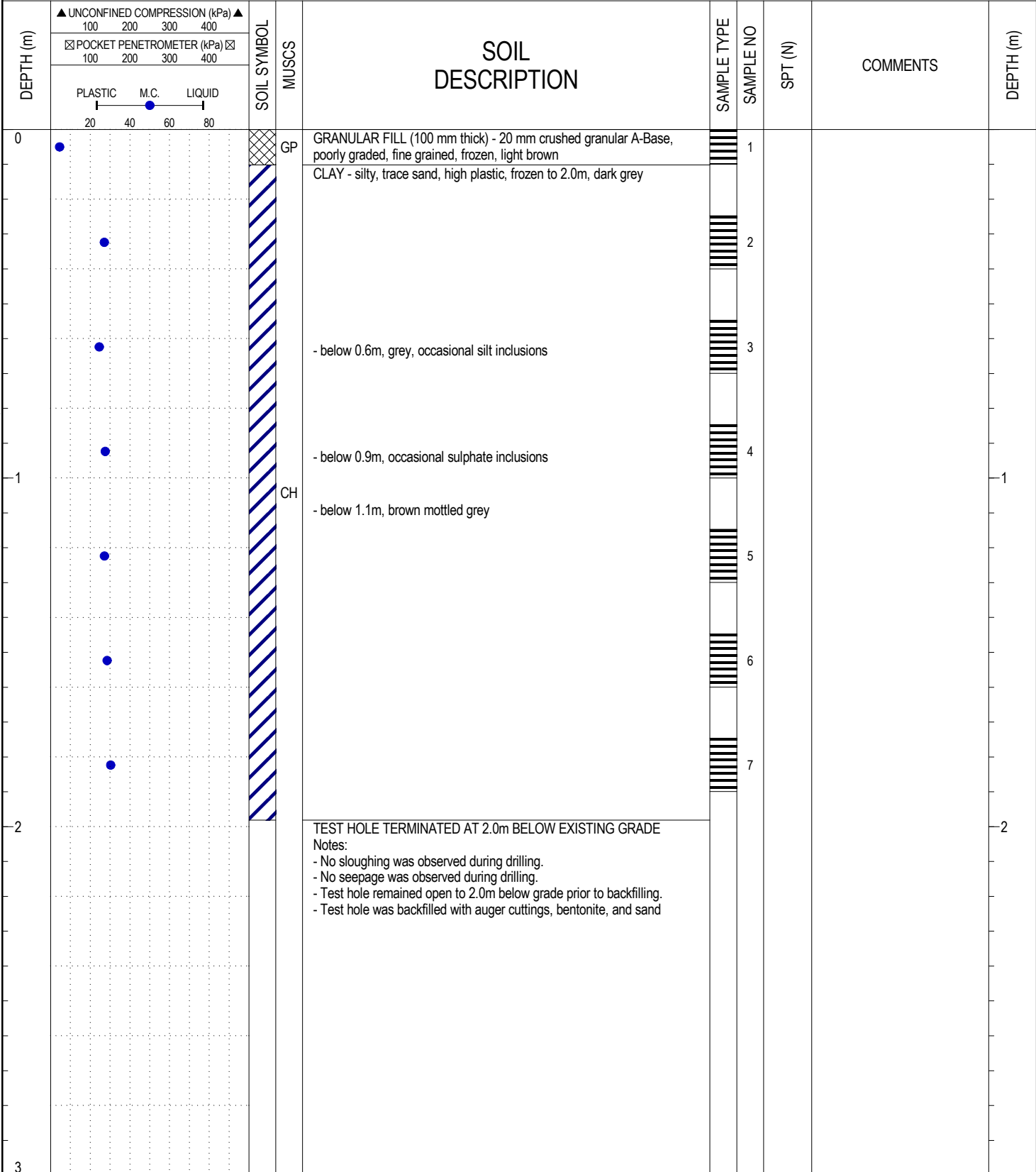


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH36
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input type="checkbox"/> SPT (N)	<input type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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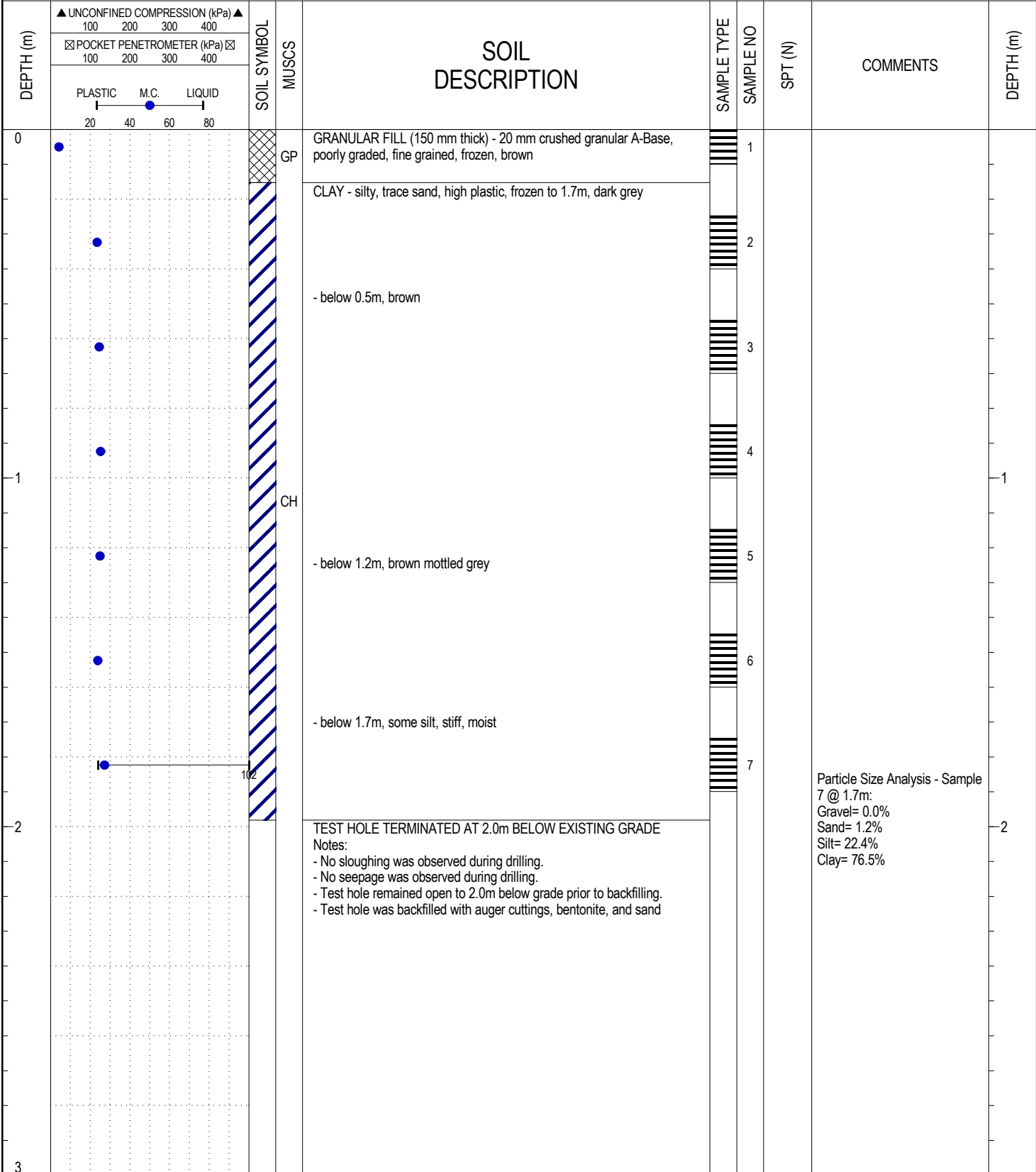


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH37
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input checked="" type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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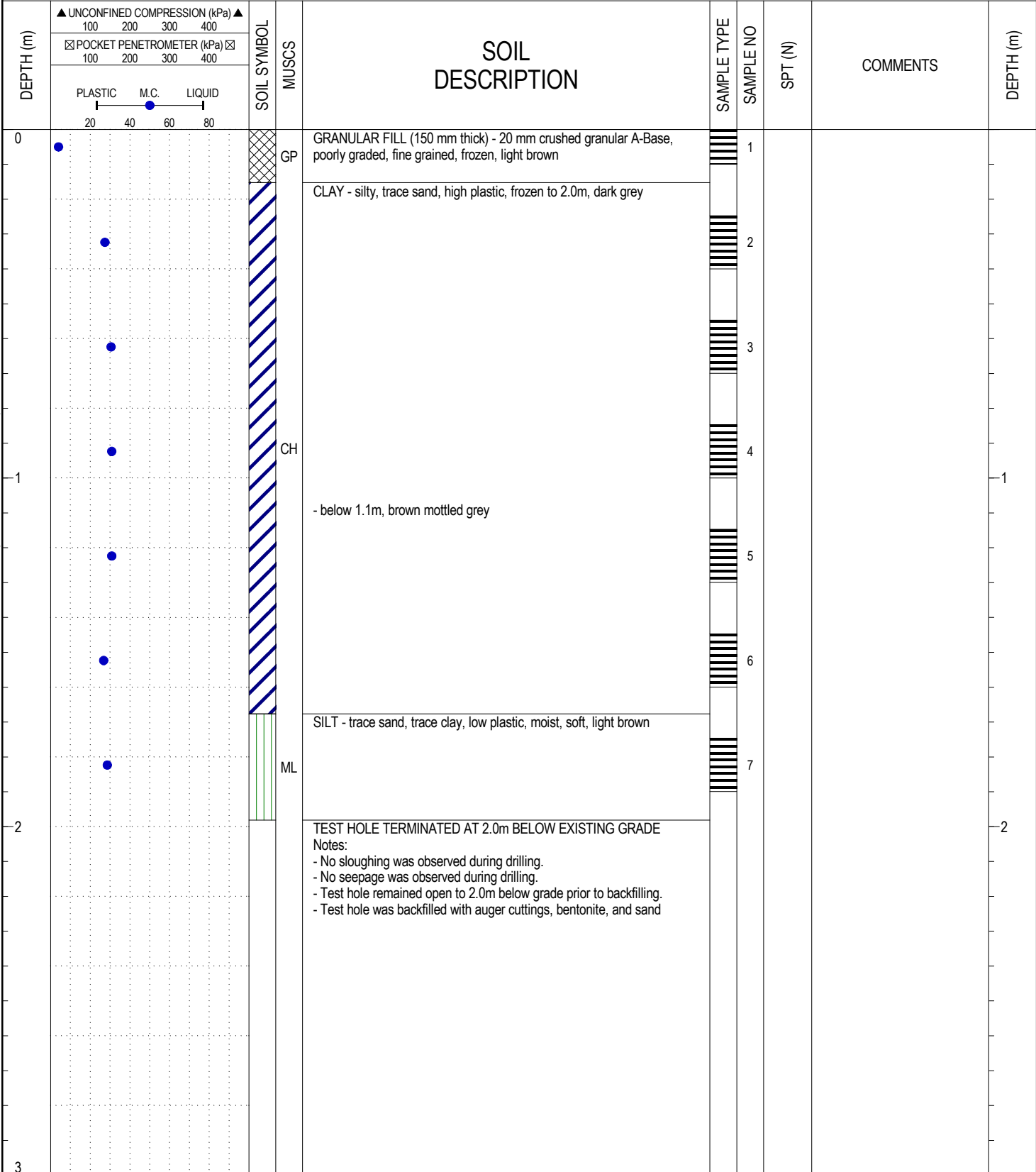


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH38
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input checked="" type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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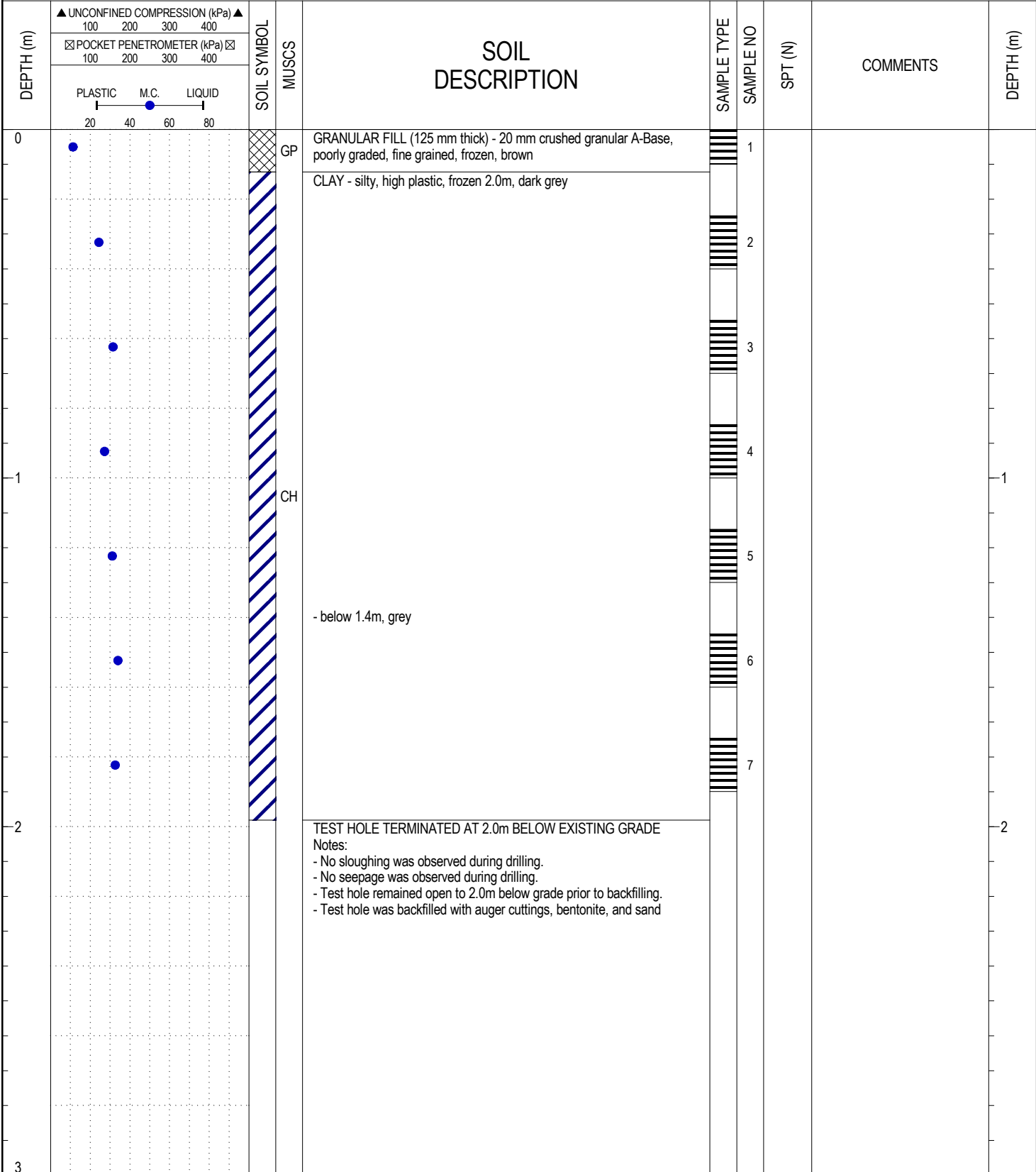


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH39
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input checked="" type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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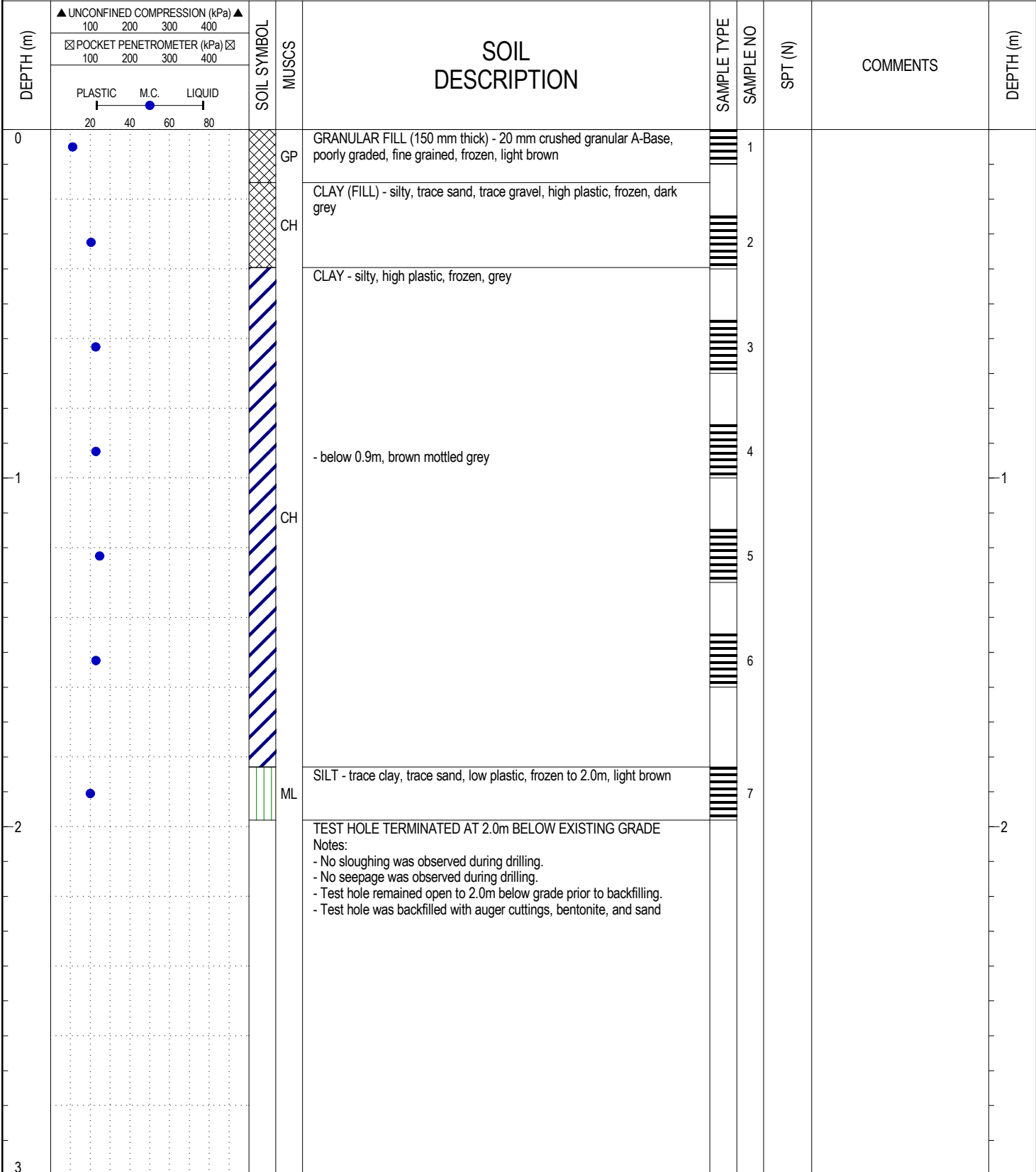


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH40
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input checked="" type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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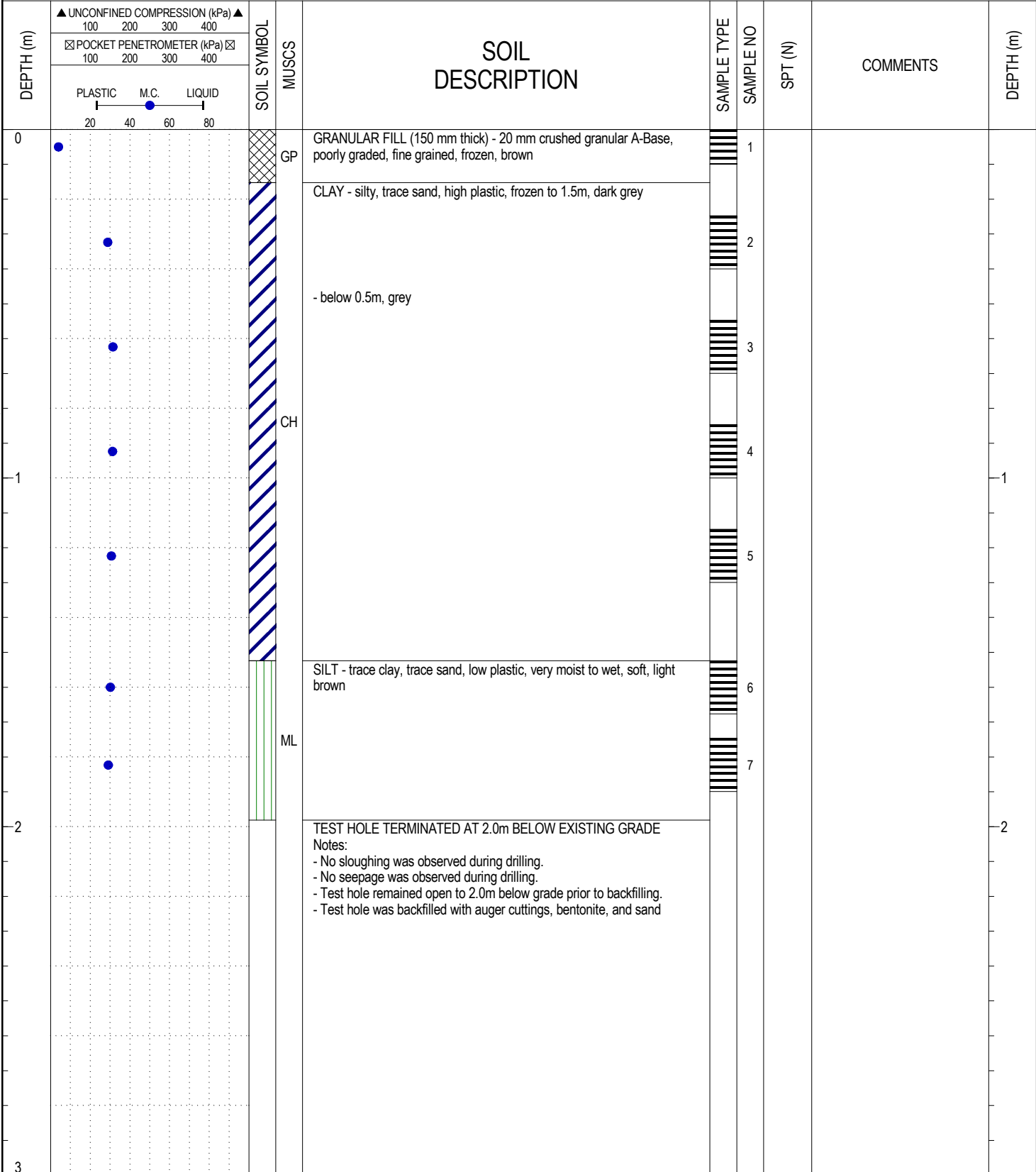


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH41
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

SAMPLE TYPE	<input checked="" type="checkbox"/> Shelby Tube	<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT (N)	<input checked="" type="checkbox"/> Grab Sample	<input type="checkbox"/> Split-Pen	<input type="checkbox"/> Core
BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



WX18717 DILLON CONSTRUCTION - CITY OF WINNIPEG STREET INVESTIGATION - WAVERLEY STREET.GPJ 19/03/04 03:04 PM (WPG - GEOTECH LOG 1)

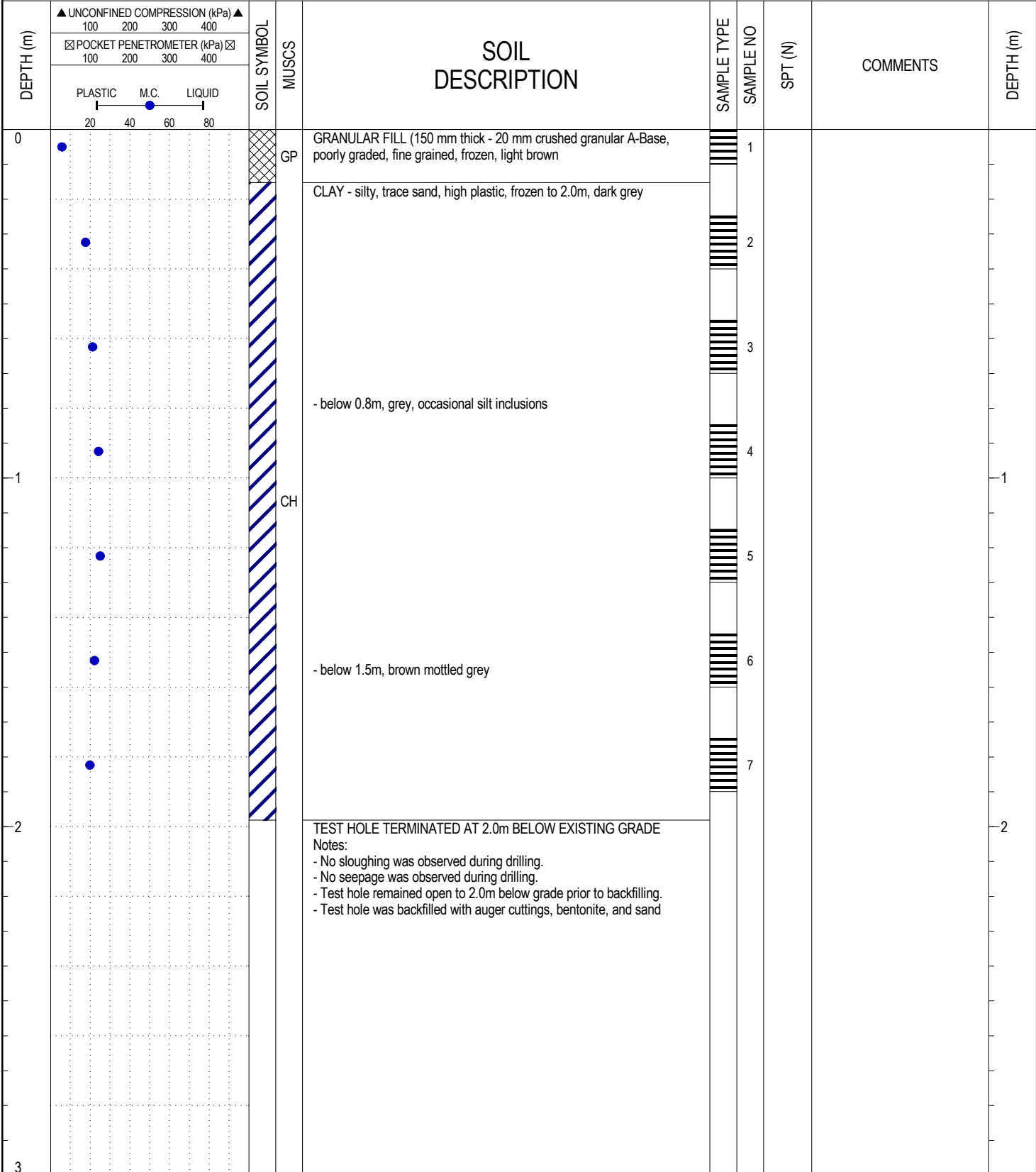


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PROJECT: City of Winnipeg Waverley Street Investigation	DRILLER: Maple Leaf Drilling Ltd.	TEST HOLE ID: TH42
CLIENT: Dillon Consulting Limited	DRILL RIG: Mobile B40LX Truck Mounted	PROJECT No: WX18717
LOCATION: Waverley Street	DRILL METHOD: 125mm SSA	ELEVATION: Not Surveyed

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BACKFILL TYPE	<input checked="" type="checkbox"/> Bentonite	<input type="checkbox"/> Pea Gravel	<input checked="" type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Slough	<input type="checkbox"/> Sand



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