

February 9, 2026

Project/File: 123318029

Lucas Stoffel
Dillon Consulting Ltd.
300-100 Innovation Drive
Winnipeg, Manitoba R3T 6G2

Good day Lucas,

Reference: 2026 Local Street Renewal Program (26-R-04) - Geotechnical Investigation

Stantec Consulting Ltd. (Stantec) was retained to undertake a factual geotechnical investigation for the 2026 Local Street Renewal Program (26-R-04) in Winnipeg, Manitoba. Use of this report is subject to the Statement of General Conditions provided in **Appendix A**.

A coring and drilling program was conducted from January 6 to January 15, 2026. A total of 36 locations were investigated with pavement coring and/or subsurface geotechnical drilling. Pavement coring was performed by Stantec's geotechnical field technologist, and drilling services were provided by Paddock Drilling Ltd. under the supervision of Stantec's technologist. A Borehole Location Plan is provided in **Appendix B**.

1. Pavement Coring

A total of 36 pavement core samples were recovered to determine the in-place pavement thickness. In addition, 7 concrete core samples were tested to assess the in-place compressive strength of the concrete. The existing pavement thicknesses are summarized in **Table 1** below, and core photographs are provided in **Appendix C**.

2. Geotechnical Drilling

A total of 29 boreholes were investigated by geotechnical drilling. The boreholes were terminated at a depth of 2.0 m below the pavement, which resulted in borehole depths ranging from 2.1 to 2.2 m. Soil samples were obtained directly from the auger flights at depths of 0.6 m, 0.9 m, 1.2 m, 1.6 m, and 2.0 m from the bottom of the existing pavement. The testholes were examined for evidence of sloughing and groundwater seepage upon completion of drilling.

Reference: 2026 Local Street Renewal Program (26-R-04) - Geotechnical Investigation

The borehole records are provided in **Appendix D**. The soil classification used in the borehole records is as per ASTM D2487 – *Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System)*.

3. Pavement Thicknesses

The existing pavement thicknesses are provided in the following table:

Table 1 – Pavement Thicknesses

Borehole No.	Street	Asphalt (mm)	Concrete (mm)	Total (mm)
167	Grant Ave N (Service Road)	0	185	185
168		0	185	185
169		15	185	200
170		20	150	170
171	Grant Ave S (Service Road)	0	195	195
172		50	145	195
173		65	145	210
174		0	185	185
175	Brock St	0	170	170
176		0	175	175
177		0	185	185
178		0	165	165
179	Nassau St S	20	130	150
180		20	175	195
181		70	80	150
182		25	175	200
183	Weatherdon Ave	0	140	140
184		20	160	180
185		0	145	145
186	Alley (Academy/Ash/Oak/Kingsway)	20	140	160
187		0	175	175
188		0	160	160

Reference: 2026 Local Street Renewal Program (26-R-04) - Geotechnical Investigation

Borehole No.	Street	Asphalt (mm)	Concrete (mm)	Total (mm)
189	Alley (Cockburn/McMillan/ Corydon/Hugo)	0	185	185
190		120	170	290
191		30	180	210
192	Alley (Grosvenor/Campbell/ Cordova/Corydon)	20	100	120
193		15	160	175
194		0	120	120
196	Alley (Roslyn/Nassau N/ Osborne/River)	75	0	75
197	Carlaw Ave	0	190	190
198		0	200	200
199		0	165	165
200	Alley (Kingsway/Renfrew/ Lindsay/Grosvenor)	65	150	215
201		0	145	145
202		0	170	170
203		0	150	150

4. Laboratory Testing

Laboratory determination of moisture content (ASTM D2216) was conducted on all soil samples. The results are provided on the attached borehole records.

In addition, the following laboratory tests were conducted on select samples:

- ASTM D4318 - *Liquid Limit, Plastic Limit, and Plasticity Index of Soils*
- ASTM D7928 - *Particle-Size Distribution of Fine-Grained Soils Using The Sedimentation Analysis*
- ASTM D698 - *Laboratory Compaction Characteristics of Soil Using Standard Effort*
- ASTM D1883 - *California Bearing Ratio (CBR) of Laboratory-Compacted Soils*
- CSA A23.2-14C – *Obtaining and testing drilled cores for compressive strength testing*

The CBR tests were performed on test specimens compacted to 95% of the maximum dry density under soaked conditions.

Prior to compressive strength testing, the concrete core samples were conditioned in water at room temperature for 48 hours.

The laboratory test reports are provided in **Appendix E**.

Reference: 2026 Local Street Renewal Program (26-R-04) - Geotechnical Investigation

5. Closure

Please contact the undersigned if you have any questions regarding this report.

Regards,

Stantec Consulting Ltd.



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Attachment: Appendix A – Statement of General Conditions
Appendix B – Borehole Location Plan
Appendix C – Core Photographs
Appendix D – Borehole Records
Appendix E – Laboratory Test Reports

Appendix A

Statement of General Conditions

STATEMENT OF GENERAL CONDITIONS

USE OF THIS REPORT: This report has been prepared for the sole benefit of the Client or its agent and may not be used by any third party without the express written consent of Stantec and the Client. Any use which a third party makes of this report is the responsibility of such third party.

BASIS OF THE REPORT: The information, opinions, and/or recommendations made in this report are in accordance with Stantec's present understanding of the site-specific project as described by the Client. The applicability of these is restricted to the site conditions encountered at the time of the investigation or study. If the proposed site-specific project differs or is modified from what is described in this report or if the site conditions are altered, this report is no longer valid unless Stantec is requested by the Client to review and revise the report to reflect the differing or modified project specifics and/or the altered site conditions.

STANDARD OF CARE: Preparation of this report, and all associated work, was carried out in accordance with the normally accepted standard of care in the state or province of execution for the specific professional service provided to the Client. No other warranty is made.

INTERPRETATION OF SITE CONDITIONS: Soil, rock, or other material descriptions, and statements regarding their condition, made in this report are based on site conditions encountered by Stantec at the time of the work and at the specific testing and/or sampling locations. Classifications and statements of condition have been made in accordance with normally accepted practices which are judgmental in nature; no specific description should be considered exact, but rather reflective of the anticipated material behavior. Extrapolation of in situ conditions can only be made to some limited extent beyond the sampling or test points. The extent depends on variability of the soil, rock, and groundwater conditions as influenced by geological processes, construction activity, and site use.

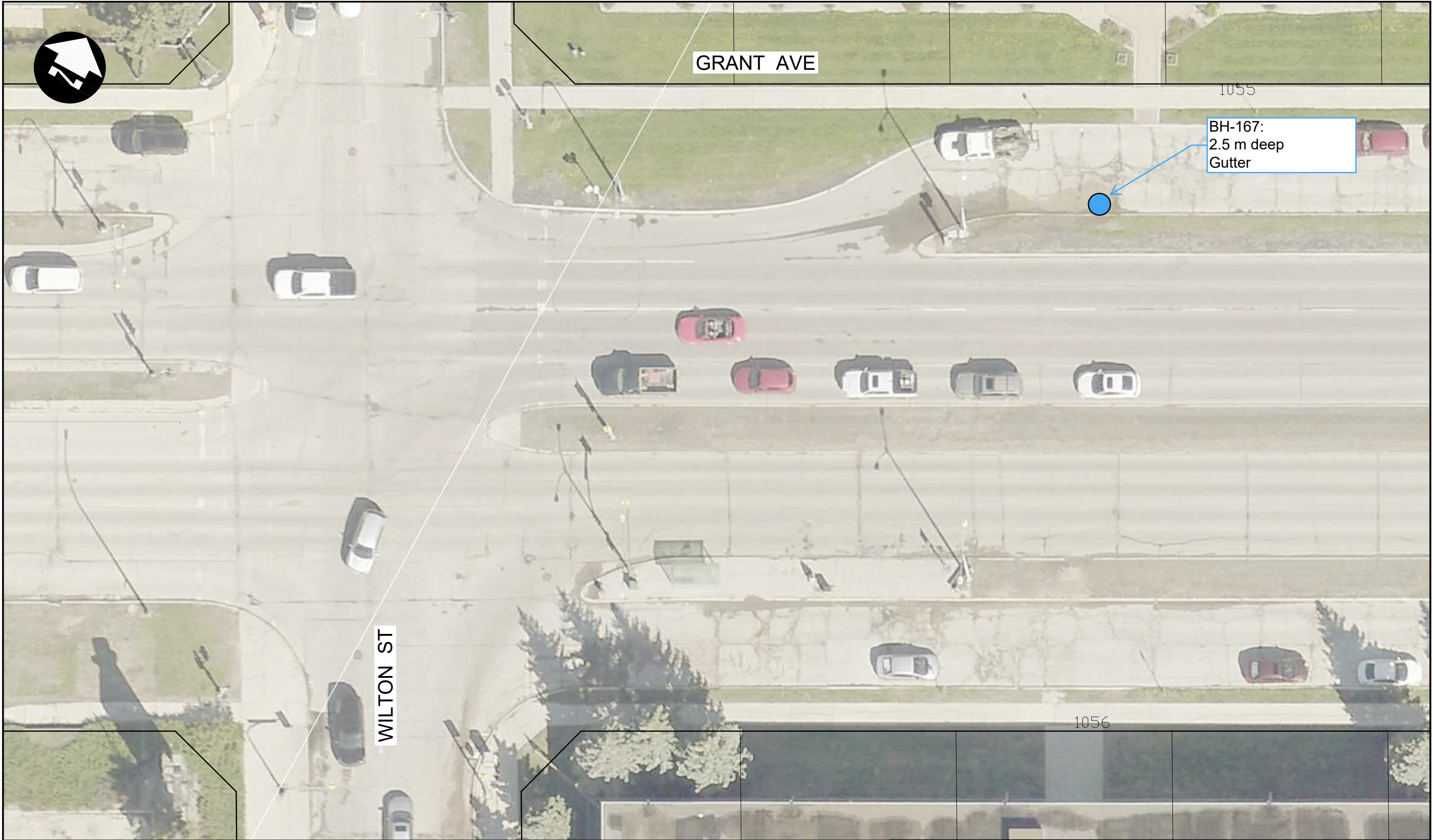
VARYING OR UNEXPECTED CONDITIONS: Should any site or subsurface conditions be encountered that are different from those described in this report or encountered at the test locations, Stantec must be notified immediately to assess if the varying or unexpected conditions are substantial and if reassessments of the report conclusions or recommendations are required. Stantec will not be responsible to any party for damages incurred as a result of failing to notify Stantec that differing site or sub-surface conditions are present upon becoming aware of such conditions.

PLANNING, DESIGN, OR CONSTRUCTION: Development or design plans and specifications should be reviewed by Stantec, sufficiently ahead of initiating the next project stage (property acquisition, tender, construction, etc.), to confirm that this report completely addresses the elaborated project specifics and that the contents of this report have been properly interpreted. Specialty quality assurance services (field observations and testing) during construction are a necessary part of the evaluation of sub-subsurface conditions and site preparation works. Site work relating to the recommendations included in this report should only be carried out in the presence of a qualified geotechnical engineer; Stantec cannot be responsible for site work carried out without being present.

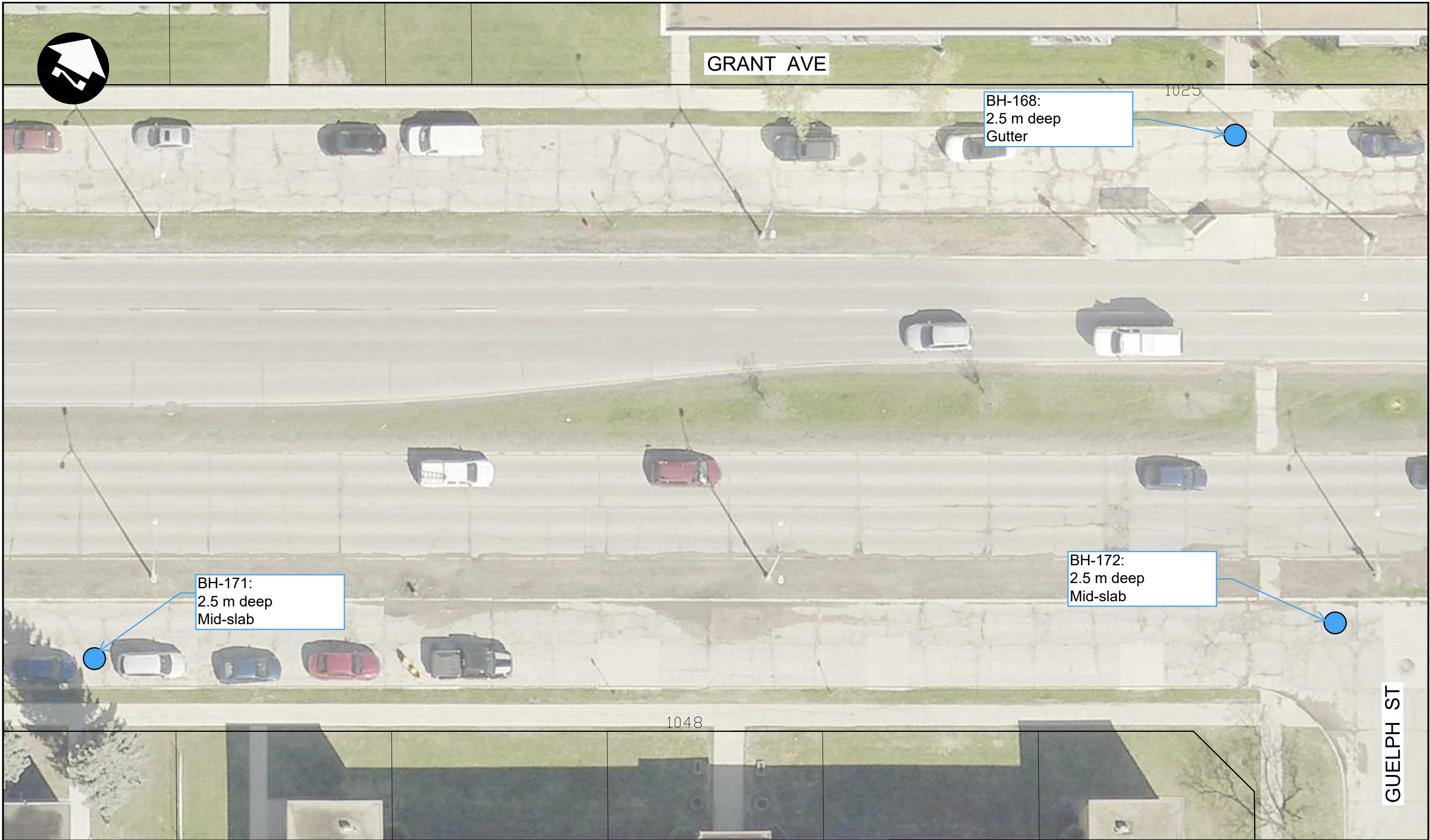


Appendix B

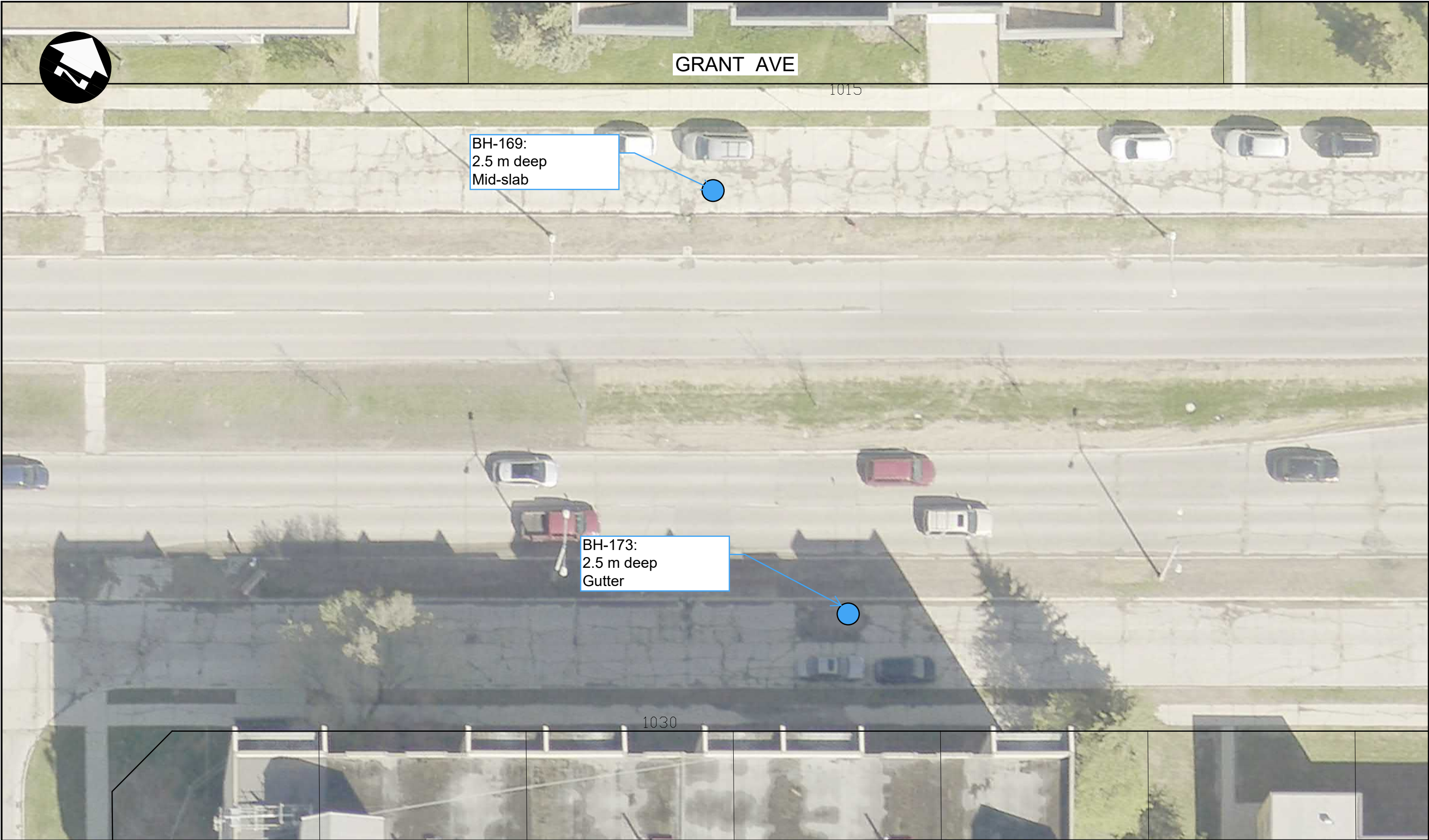
Borehole Location Plan



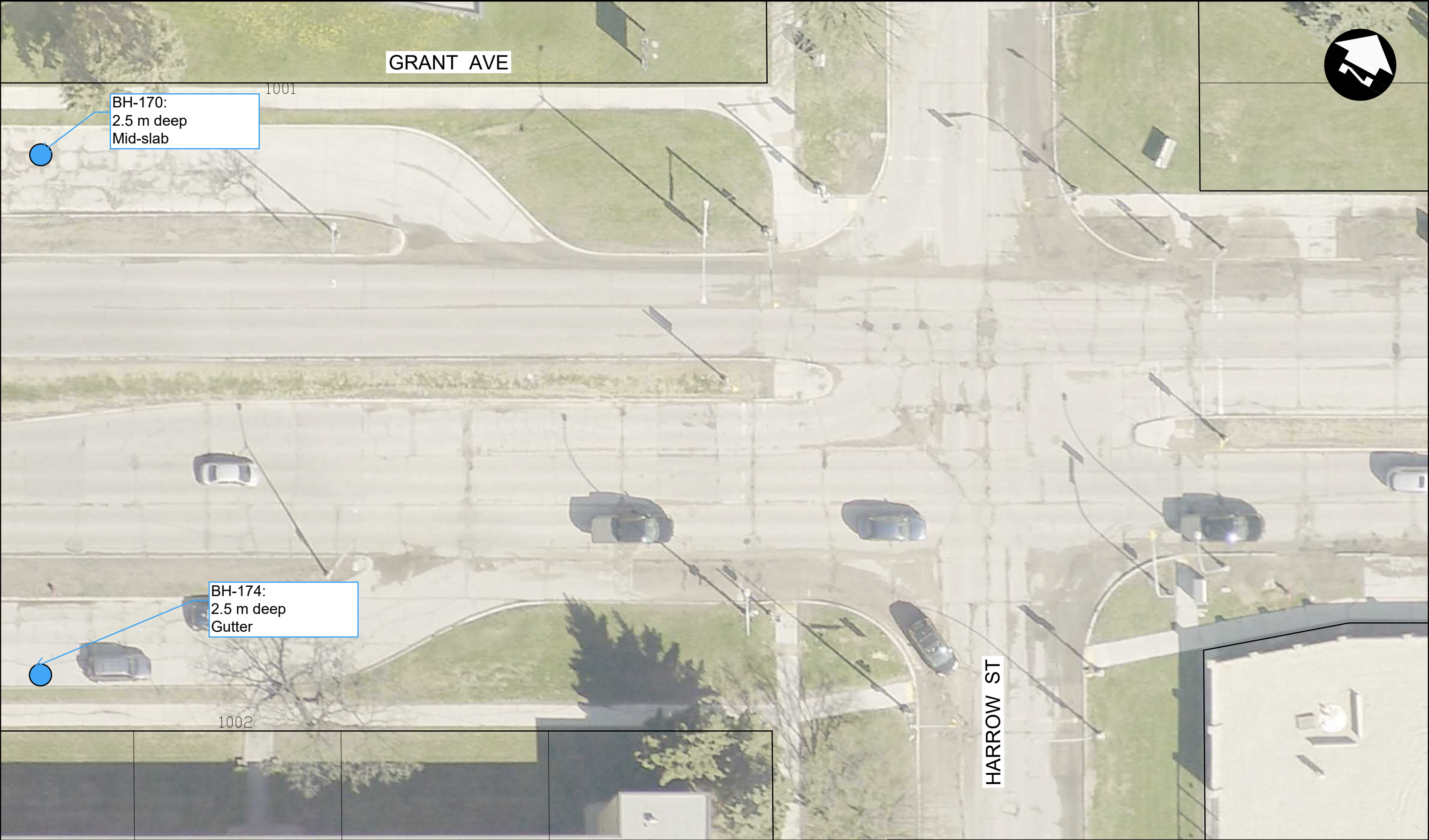
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				DRAWING NO. REF-001



North Service Road # of Boreholes = 4 Test Frequency = 3	South Service Road # of Boreholes = 4 Test Frequency = 3	 SCALE: 1:250	TITLE GRANT AVENUE 2 OF 4	PROJECT NO. 252151
				DRAWING NO. REF-001



North Service Road # of Boreholes = 4 Test Frequency = 3	South Service Road # of Boreholes = 4 Test Frequency = 3	 SCALE: 1:250	TITLE GRANT AVENUE 3 OF 4	PROJECT NO. 252151
				DRAWING NO. REF-001



North Service Road # of Boreholes = 4 Test Frequency = 3	South Service Road # of Boreholes = 4 Test Frequency = 3	 SCALE: 1:250	TITLE GRANT AVENUE 4 OF 4	PROJECT NO. 252151
				DRAWING NO. REF-001





BROCK ST

BH-176:
2.0 m deep
Mid-slab



4

790

786

780

774

770

of Boreholes = 4
Test Frequency = 3



TITLE
BROCK STREET
2 OF 4

PROJECT NO.
252151
DRAWING NO.
REF-001



BROCK ST

BH-177:
2.0 m deep
Mid-slab



766

760

756

752

748

744

of Boreholes = 4
Test Frequency = 3

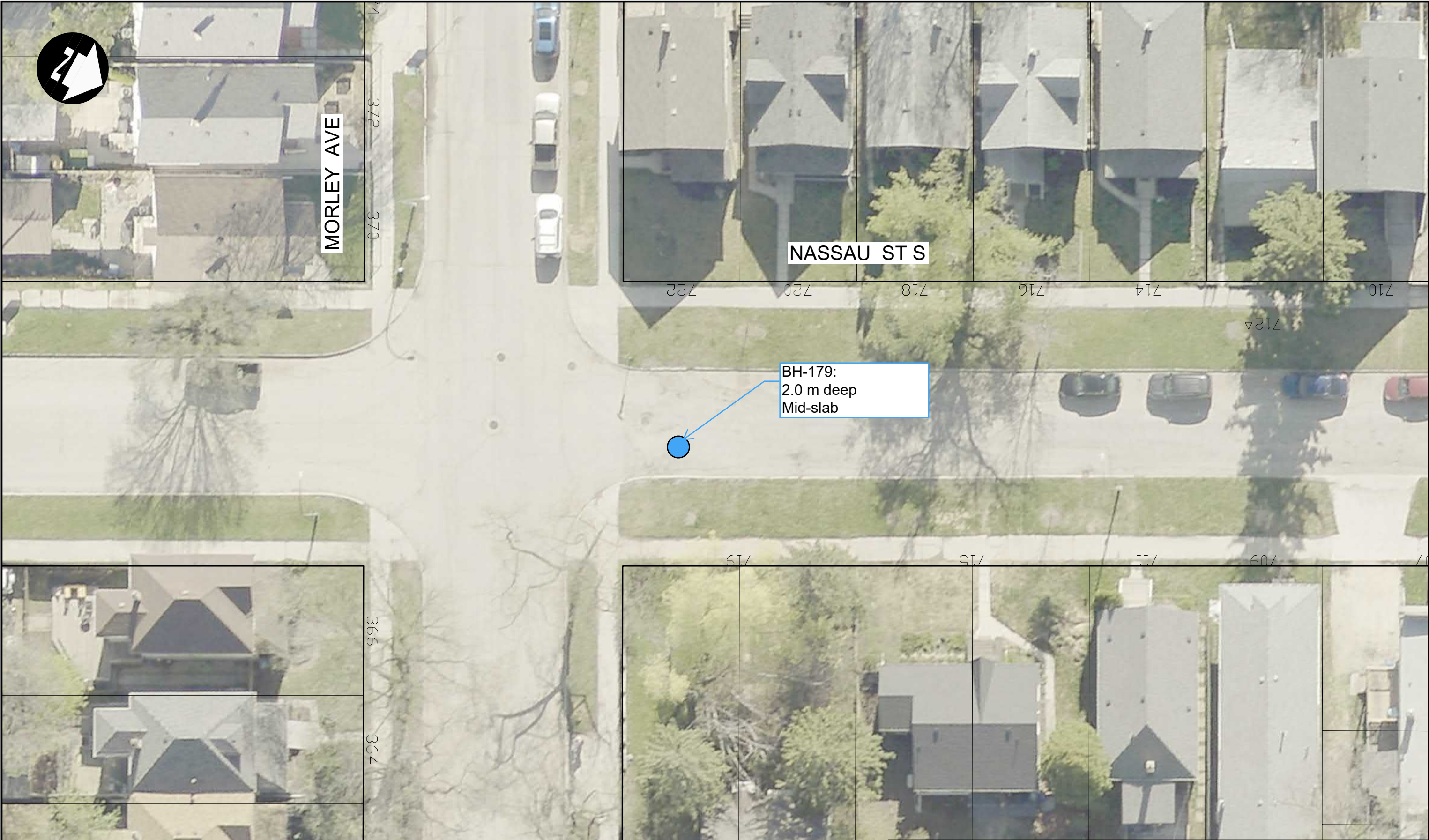


TITLE

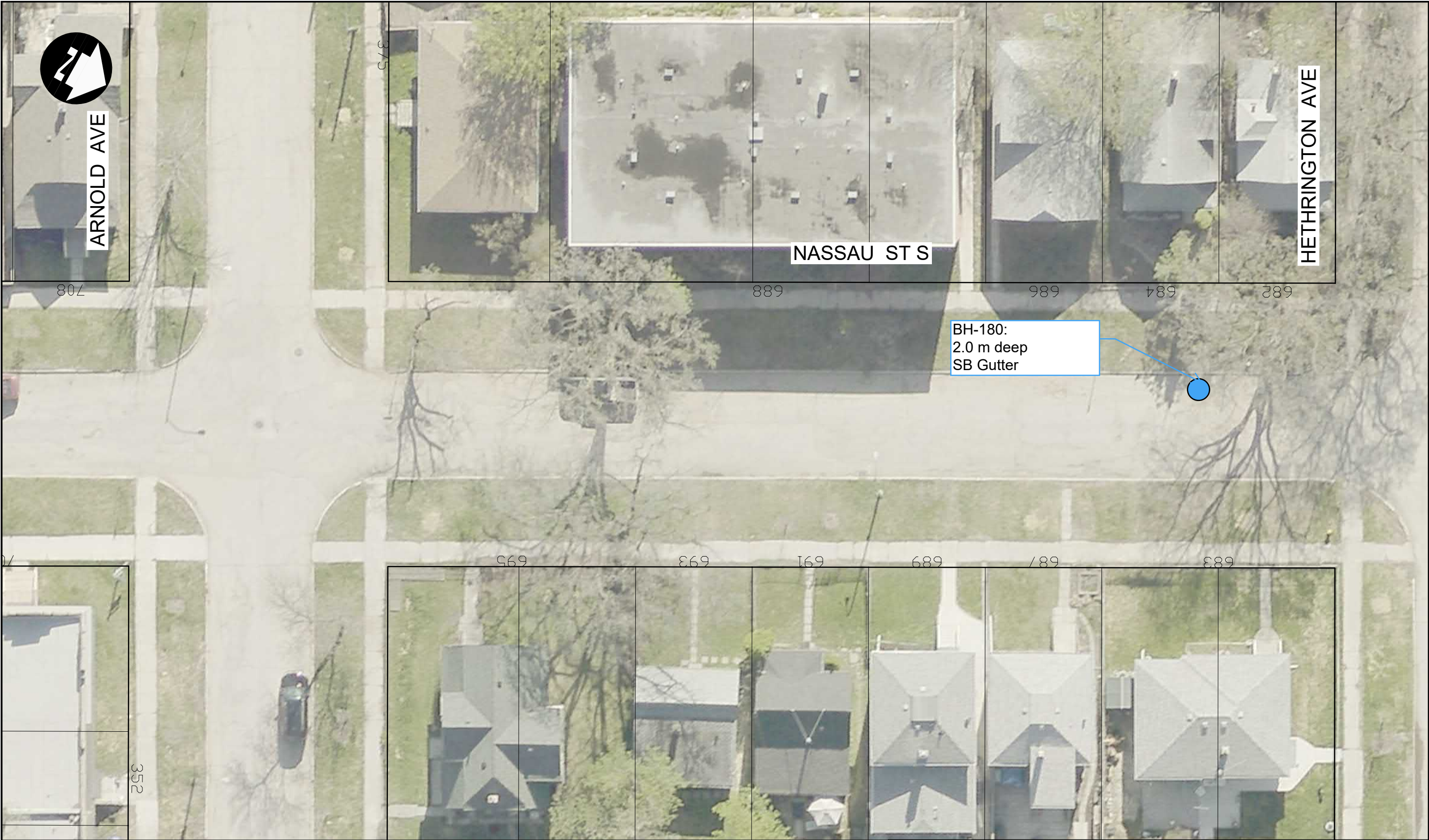
BROCK STREET
3 OF 4

PROJECT NO.
252151
DRAWING NO.
REF-001

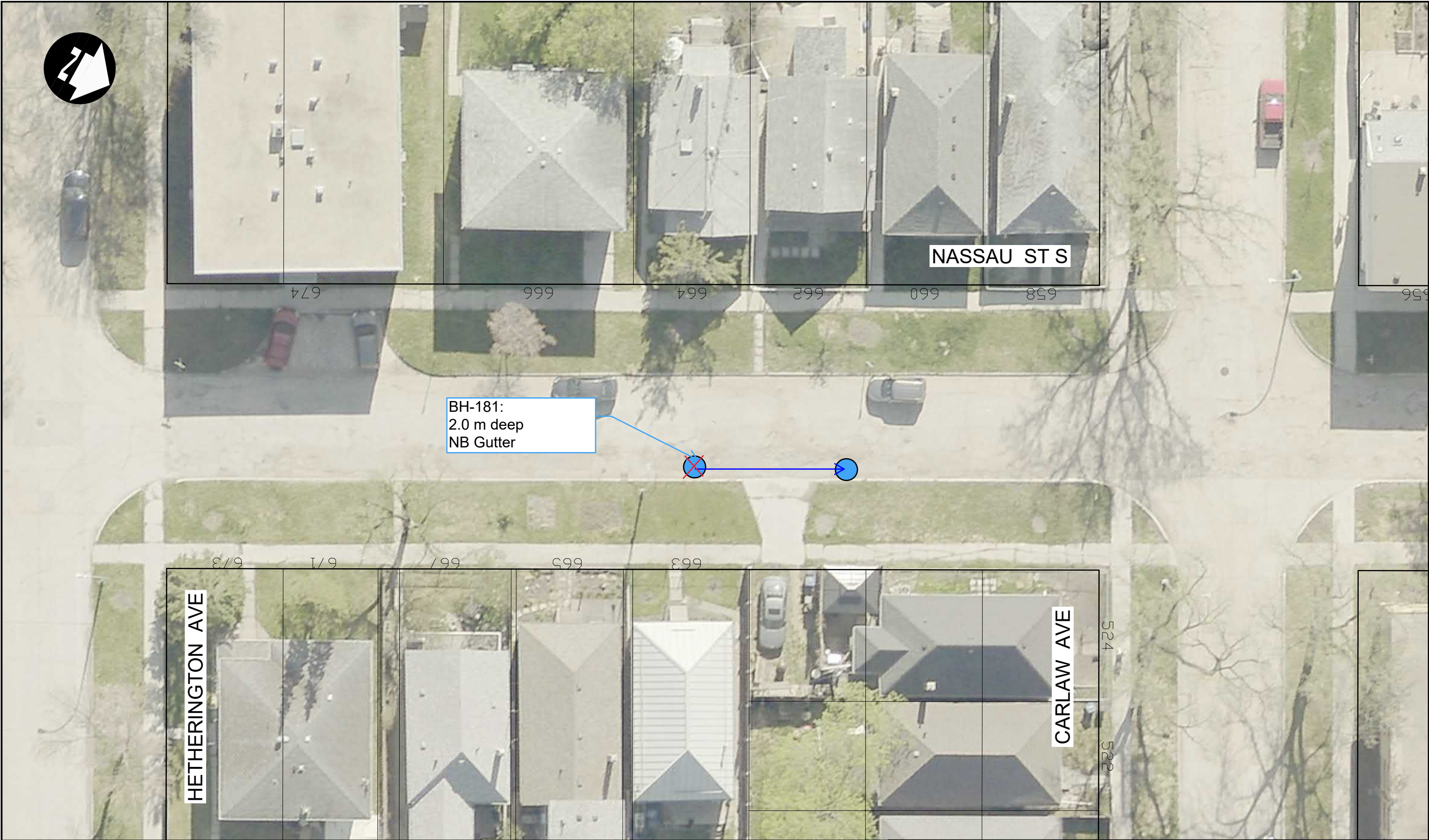




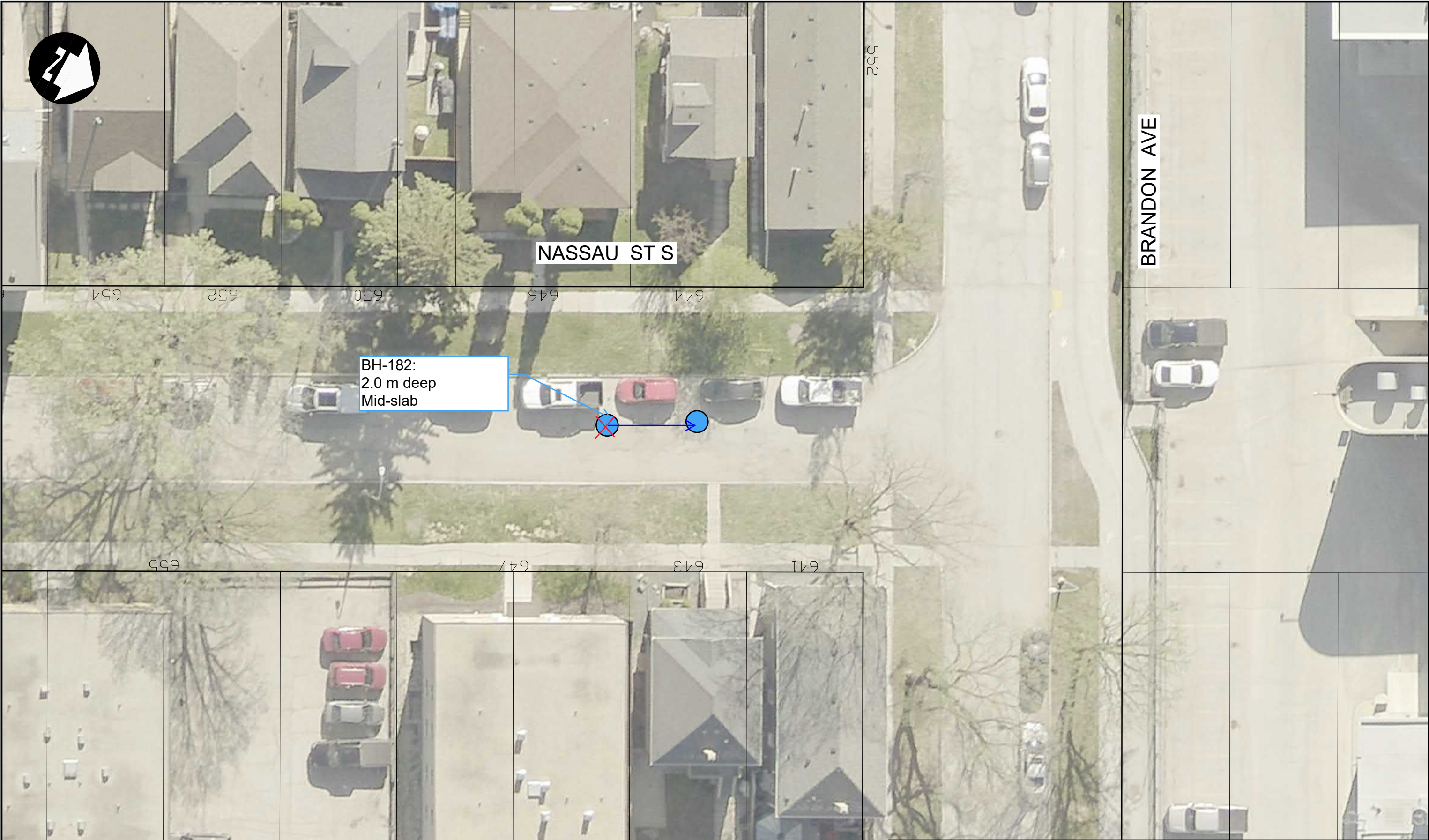
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			DRAWING NO. REF-001



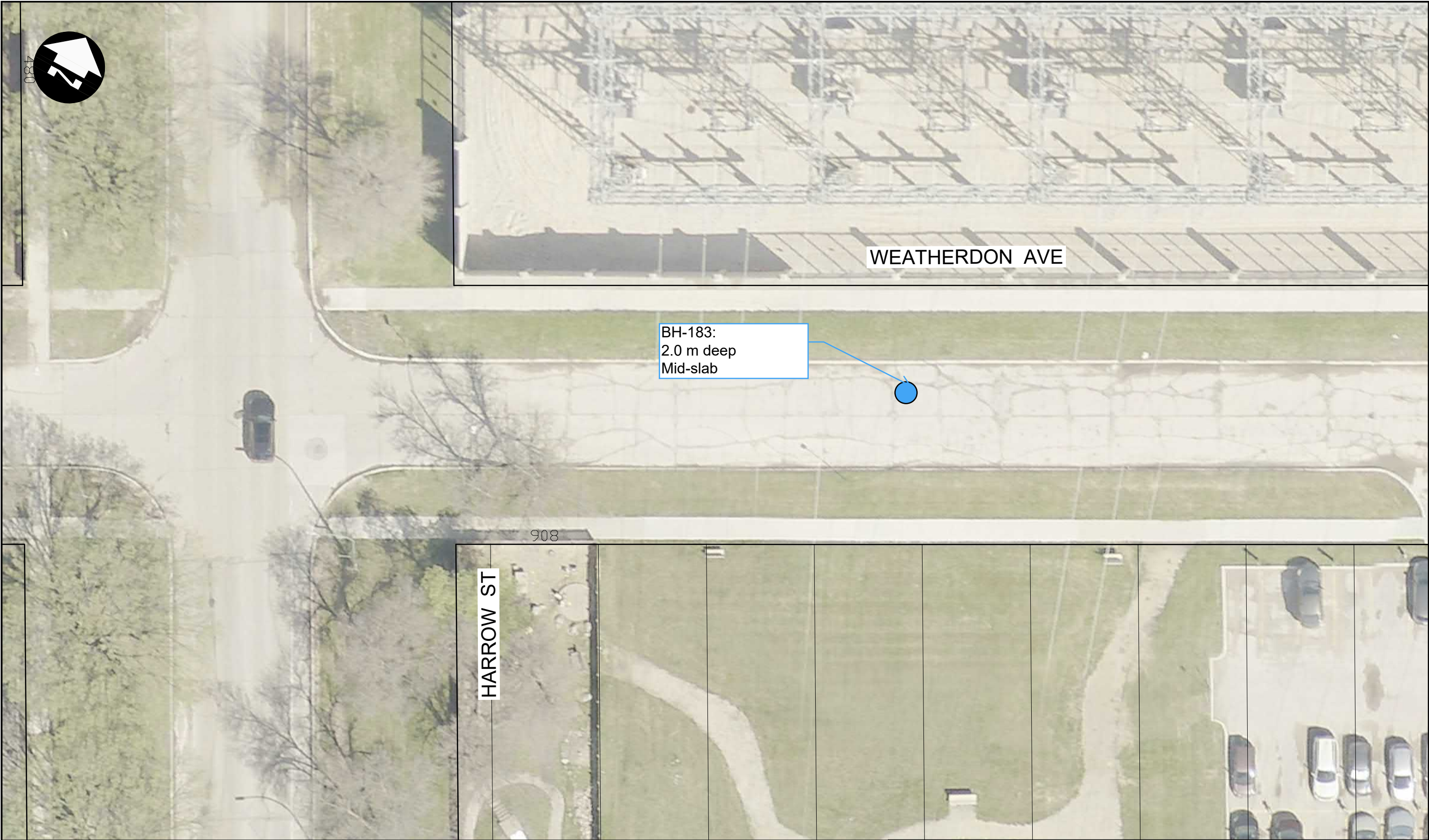
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			DRAWING NO. REF-001



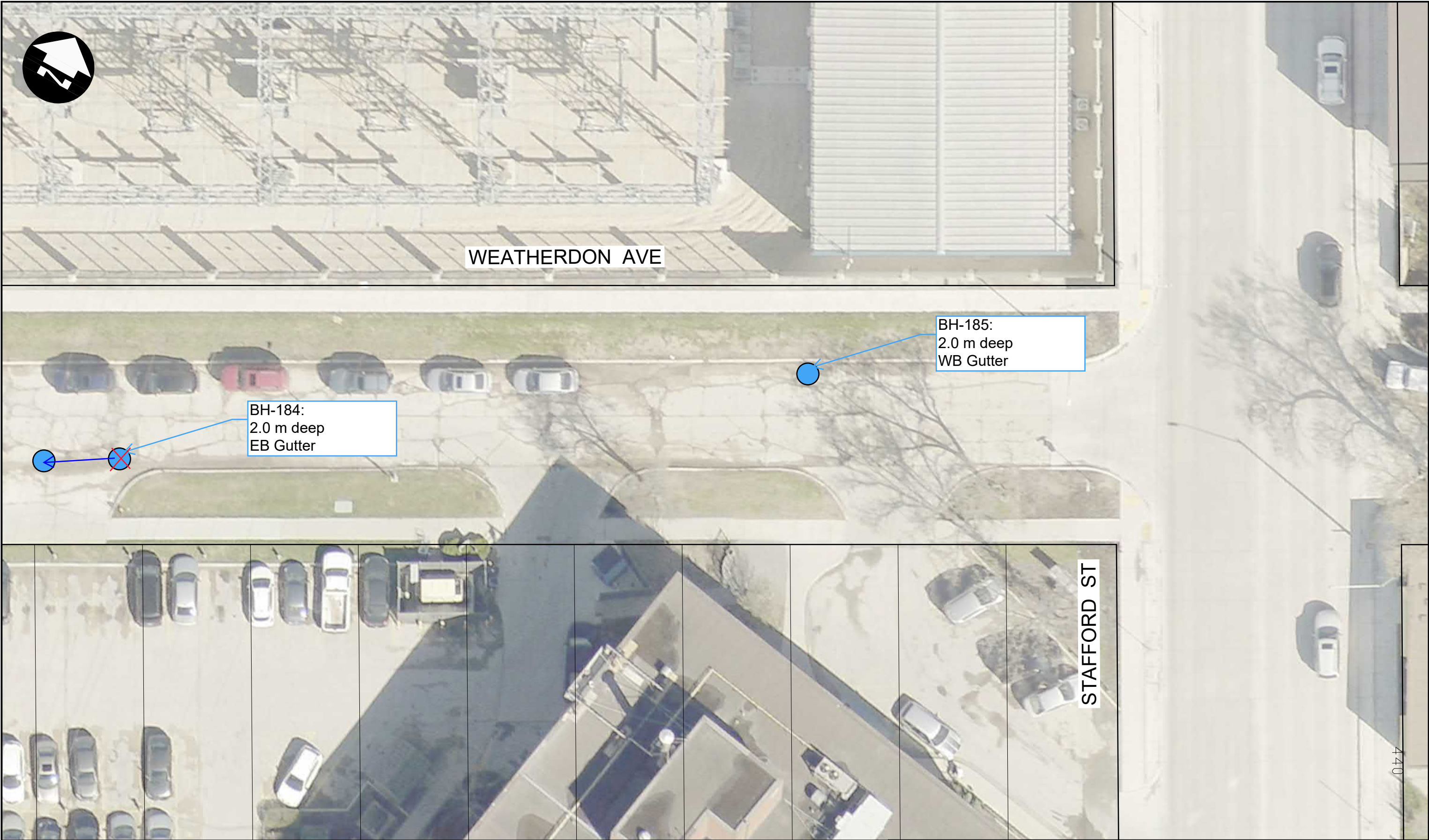
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# of Boreholes = 4 Test Frequency = 3	 DILLON CONSULTING SCALE: 1:250	TITLE NASSAU STREET 4 OF 4	PROJECT NO. 252151
			DRAWING NO. REF-001



# of Boreholes = 3 Test Frequency = 2	 SCALE: 1:250	TITLE WEATHERDON AVENUE 1 OF 2	PROJECT NO. 252151
			DRAWING NO. REF-001



of Boreholes = 3
Test Frequency = 2



TITLE
WEATHERDON AVENUE
1 OF 2

PROJECT NO.
252151
DRAWING NO.
REF-001

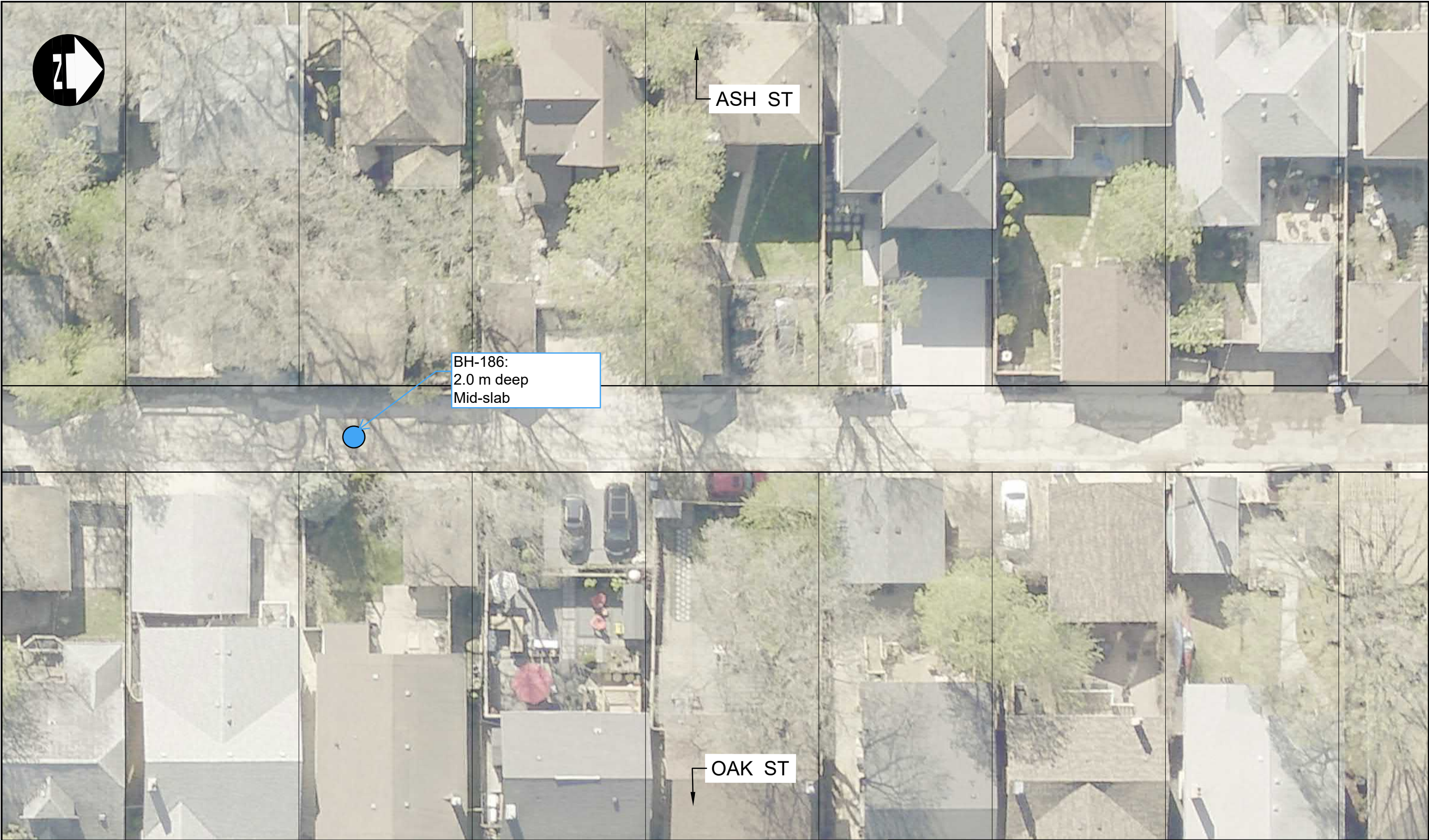


of Boreholes = 3
Test Frequency = 3

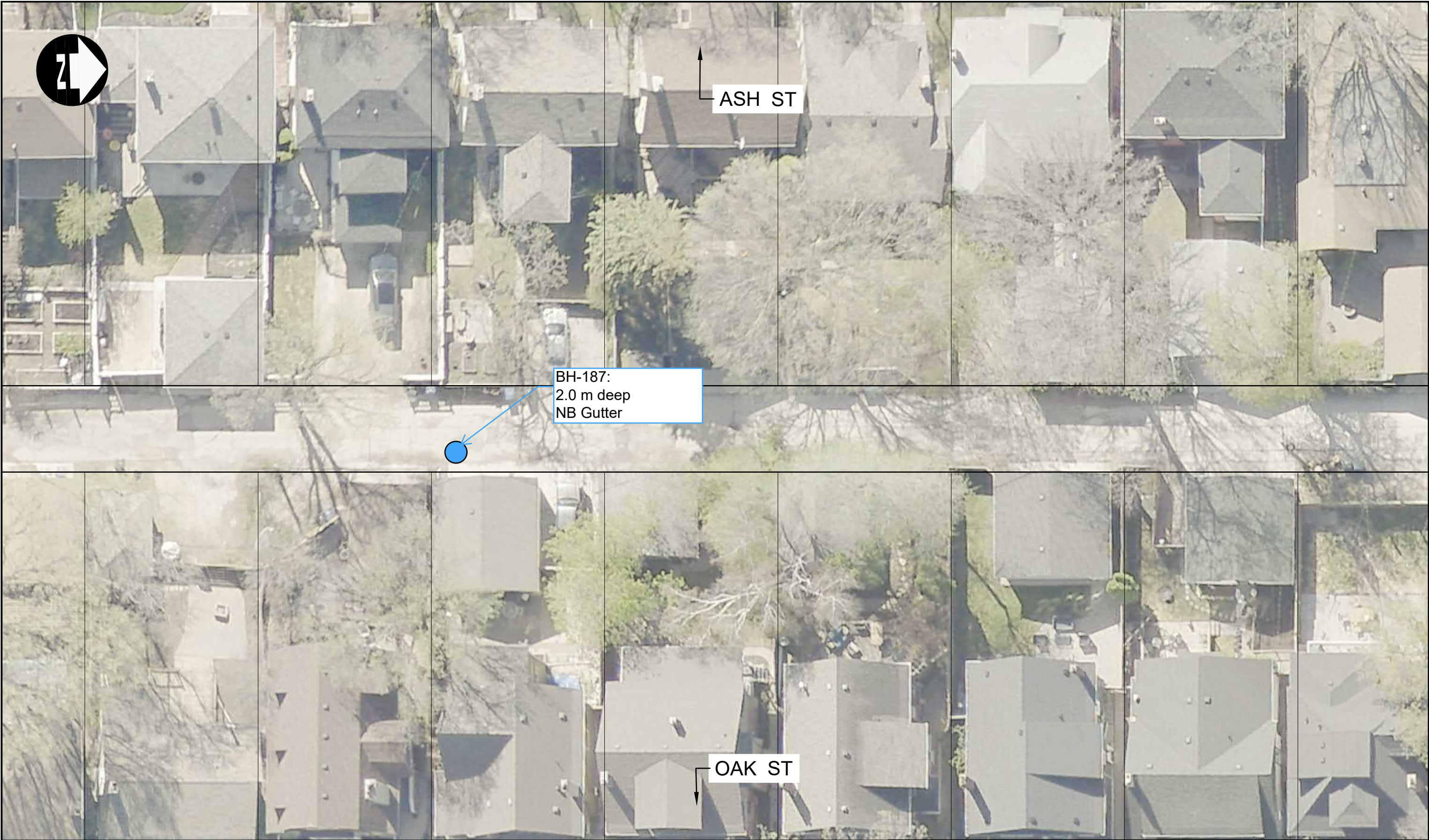


TITLE
ALLEY - CAMPBELL/CORDOVA/CORYDON
GROSVENOR (1 OF 4)

PROJECT NO.
252151
DRAWING NO.
REF-001



# of Boreholes = 3 Test Frequency = 3	 SCALE: 1:250	TITLE ALLEY - ASH/ACADEMY/OAK/KINGSWAY 2 OF 4	PROJECT NO. 252151
			DRAWING NO. REF-001



# of Boreholes = 3 Test Frequency = 3	 DILLON CONSULTING SCALE: 1:250	TITLE ALLEY - ASH/ACADEMY/OAK/KINGSWAY 3 OF 4	PROJECT NO. 252151
			DRAWING NO. REF-001







# of Boreholes = 3 Test Frequency = 2	 SCALE: 1:250	TITLE ALLEY - MCMILLAN/CORYDON/HUGO/COCKBURN 2 OF 2	PROJECT NO. 252151
			DRAWING NO. REF-001





# of Boreholes = 3 Test Frequency = 3	 SCALE: 1:250	TITLE ALLEY - CAMPBELL/CORDOVA/CORYDON GROSVENOR (3 OF 4)	PROJECT NO. 252151
			DRAWING NO. REF-001



of Boreholes = 3
Test Frequency = 3

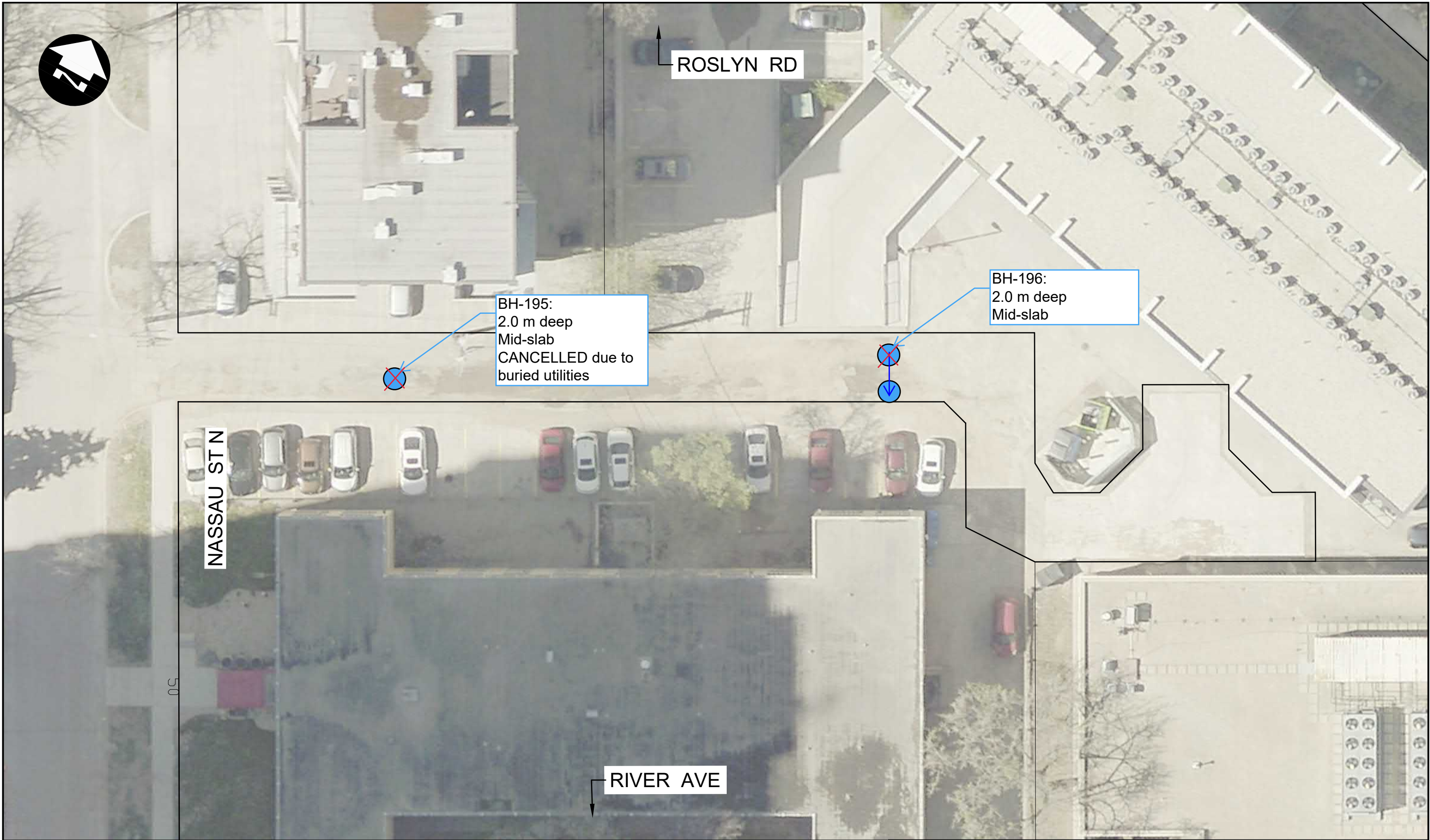


TITLE
ALLEY - CAMPBELL/CORDOVA/CORYDON
GROSVENOR (4 OF 4)

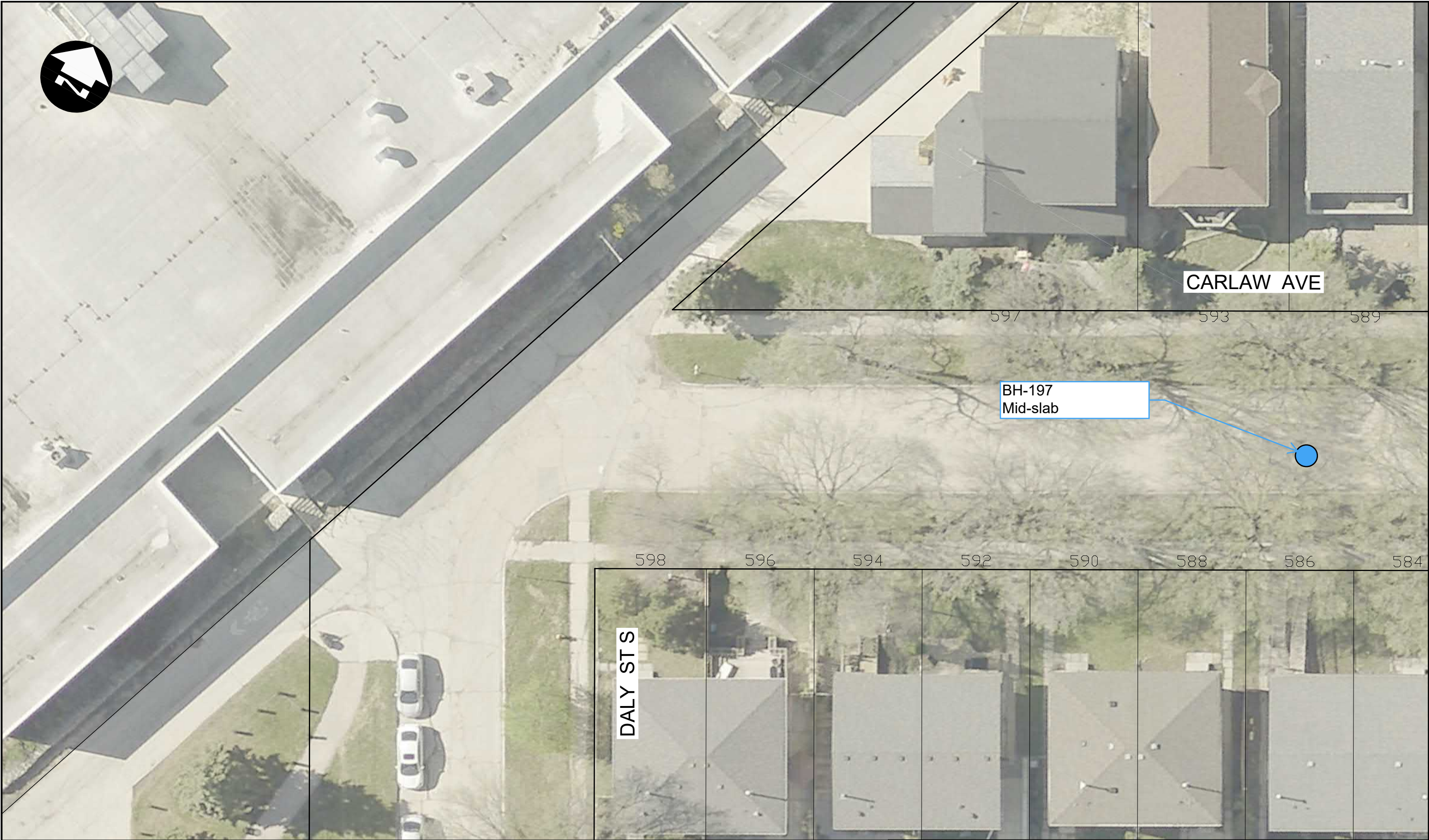
PROJECT NO.
252151
DRAWING NO.
REF-001



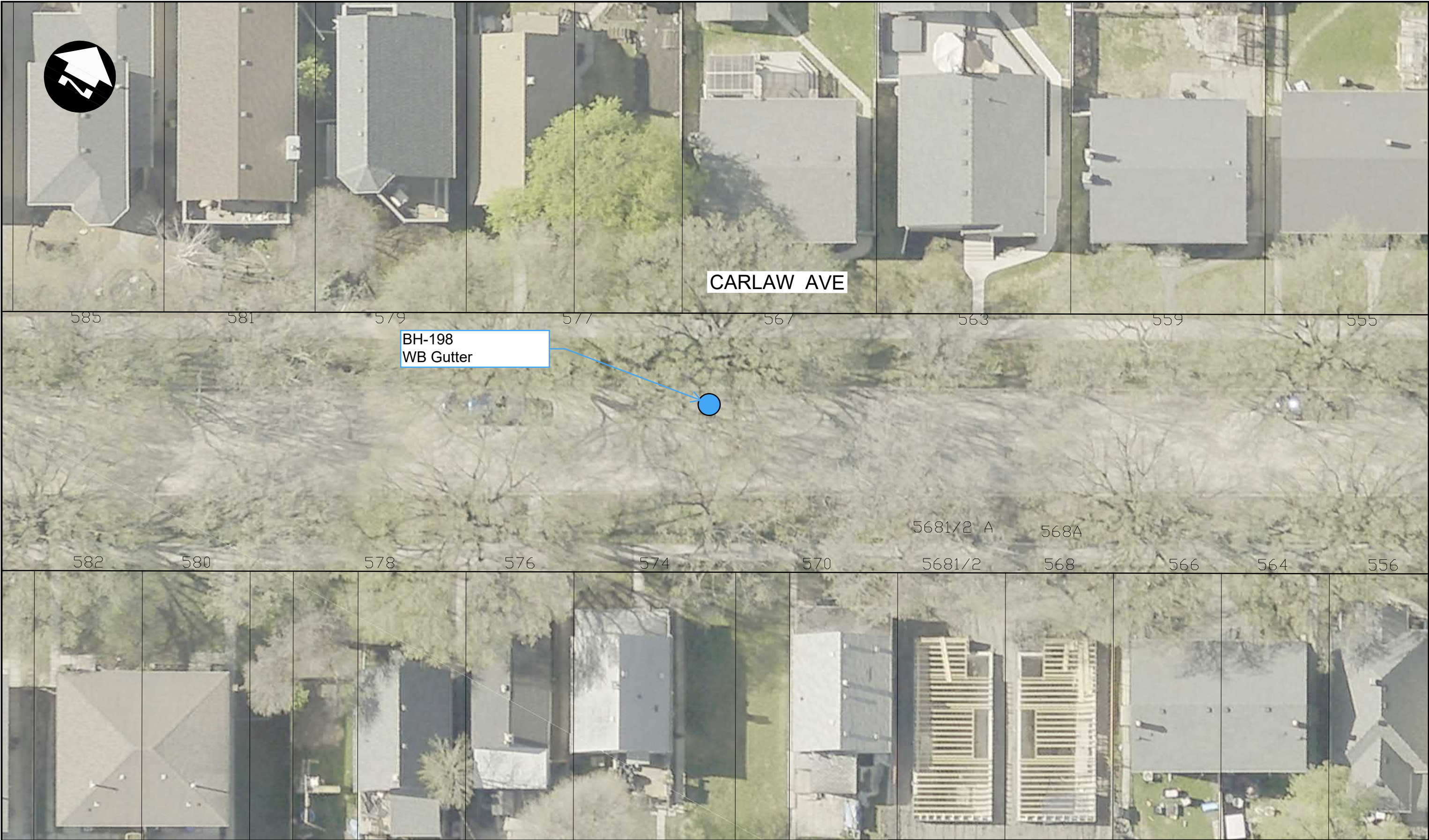
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			DRAWING NO. REF-001



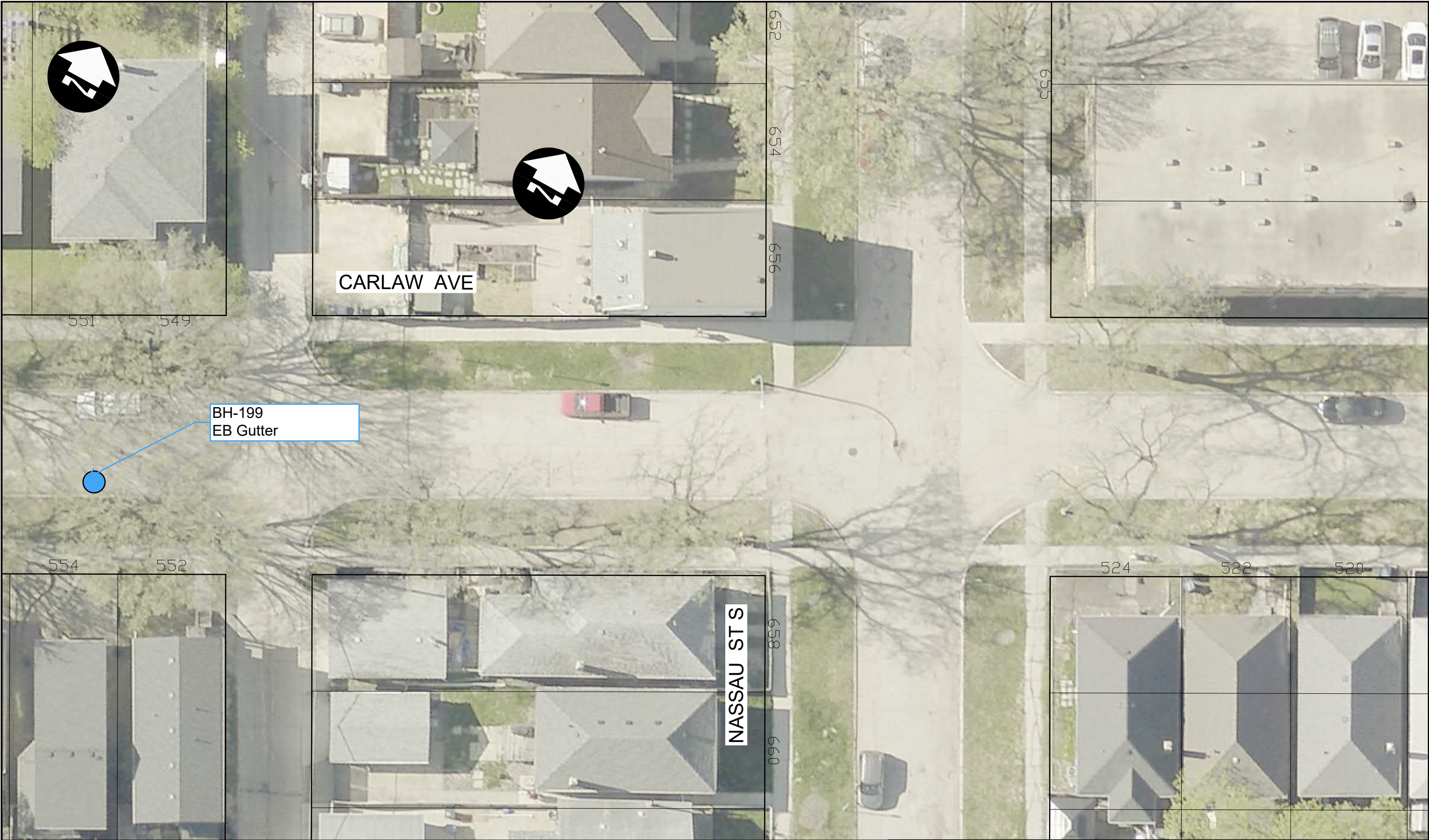
# of Boreholes = 2 Test Frequency = 2	 SCALE: 1:250	TITLE ALLEY - ROSLYN/NASSAU/OSBORNE/RIVER 1 OF 1	PROJECT NO. 252151
			DRAWING NO. REF-001



# of Cores = 3 Test Frequency = N/A	 SCALE: 1:250	TITLE CARLAW AVENUE 1 OF 3	PROJECT NO. 252151
			DRAWING NO. REF-001



# of Cores = 3 Test Frequency = N/A	 SCALE: 1:250	TITLE CARLAW AVENUE 2 OF 3	PROJECT NO. 252151
			DRAWING NO. REF-001



# of Cores = 3 Test Frequency = N/A	 SCALE: 1:250	TITLE CARLAW AVENUE 3 OF 3	PROJECT NO. 252151
			DRAWING NO. REF-001





RAILWAY

BH-201
Mid-slab



LINDSAY ST

of Cores = 4
Test Frequency = N/A



TITLE
ALLEY - GROSVENOR/LINDSAY/KINGSWAY
2 OF 4

PROJECT NO.
252151
DRAWING NO.
REF-001



RAILWAY

BH-202
Gutter

LINDSAY ST

of Cores = 4
Test Frequency = N/A



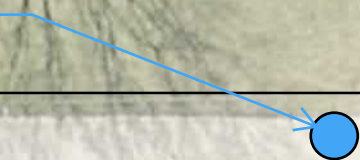
TITLE
ALLEY - GROSVENOR/LINDSAY/KINGSWAY
3 OF 4

PROJECT NO.
252151
DRAWING NO.
REF-001



RAILWAY

BH-203
Gutter



KINGSWAY

LINDSAY ST

of Cores = 4
Test Frequency = N/A



TITLE
ALLEY - GROSVENOR/LINDSAY/KINGSWAY
4 OF 4

PROJECT NO.
252151
DRAWING NO.
REF-001

Appendix C

Core Photographs

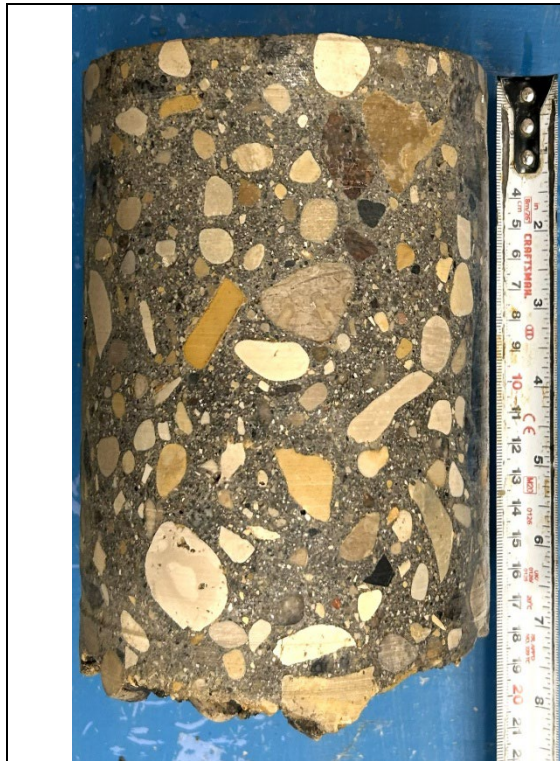


Figure 1 – BH-167 – Grant Ave N Service Road



Figure 2 – BH-168 – Grant Ave N Service Road



Figure 3 – BH-169 – Grant Ave N Service Road



Figure 4 – BH-170 – Grant Ave N Service Road



Figure 5 – BH-171 – Grant Ave S Service Road



Figure 6 – BH-172 – Grant Ave S Service Road



Figure 7 – BH-173 – Grant Ave S Service Road



Figure 8 – BH-174 – Grant Ave S Service Road



Figure 9 – BH-175 – Brock St



Figure 10 – BH-176 – Brock St



Figure 11 – BH-177- Brock St



Figure 12 – BH-178 – Brock St



Figure 13 – BH-179 – Nassau St S



Figure 14 – BH-180 – Nassau St S



Figure 15 – BH-181 – Nassau St S



Figure 16 – BH-182 – Nassau St S



Figure 17 – BH-183 – Weatherdon Ave



Figure 18 – BH-184 – Weatherdon Ave



Figure 19 – BH-185 – Weatherdon Ave



Figure 20 – BH-186 – Alley
(Academy/Ash/Oak/Kingsway)



Figure 21 – BH-187 – Alley
(Academy/Ash/Oak/Kingsway)



Figure 22 – BH-188 – Alley
(Academy/Ash/Oak/Kingsway)



Figure 23 – BH-189 – Alley
(Cockburn/McMillan/Corydon/Hugo)



Figure 24 – BH-190 – Alley
(Cockburn/McMillan/Corydon/Hugo)



Figure 25 – BH-191 – Alley
(Cockburn/McMillan/Corydon/Hugo)



Figure 26 – BH-192 – Alley
(Grosvenor/Campbell/Cordova/Corydon)



Figure 27 – BH-193 – Alley
(Grosvenor/Campbell/Cordova/Corydon)



Figure 28 – BH-194 – Alley
(Grosvenor/Campbell/Cordova/Corydon)

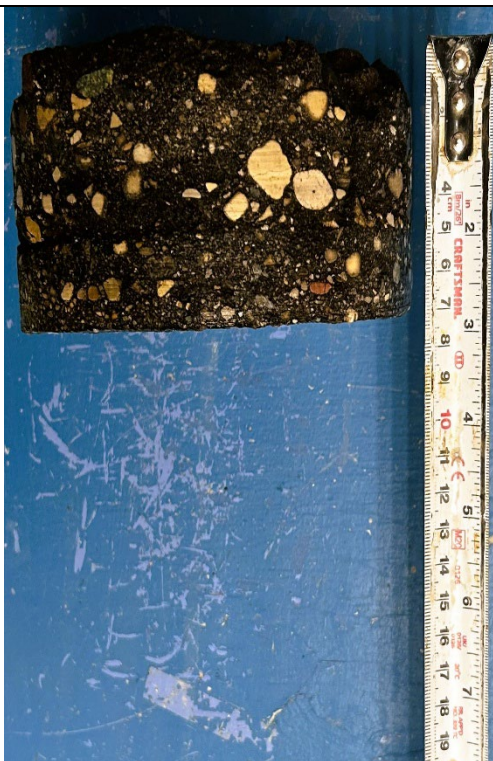


Figure 29 – BH-196 – Alley
(Roslyn/Nassau/Osborne/River)



Figure 30 – BH-197 – Carlaw Ave



Figure 31 – BH-198 – Carlaw Ave



Figure 32 – BH-199 – Carlaw Ave

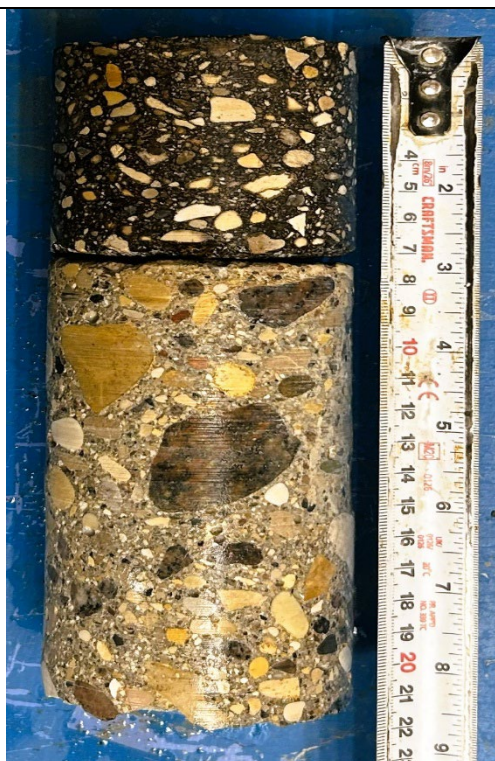


Figure 33 – BH-200 – Alley
(Kingsway/Renfrew/Lindsay/Grosvenor)



Figure 34 – BH-201- Alley
(Kingsway/Renfrew/Lindsay/Grosvenor)



Figure 35 – BH-202 – Alley
(Kingsway/Renfrew/Lindsay/Grosvenor)



Figure 36 – BH-203 – Alley
(Kingsway/Renfrew/Lindsay/Grosvenor)

Appendix D

Borehole Records

CLIENT: **Dillon Consulting Ltd.**

PROJECT NO.: **123317029**

PROJECT: **2026 Local Street Renewal Program - 26-R-04**

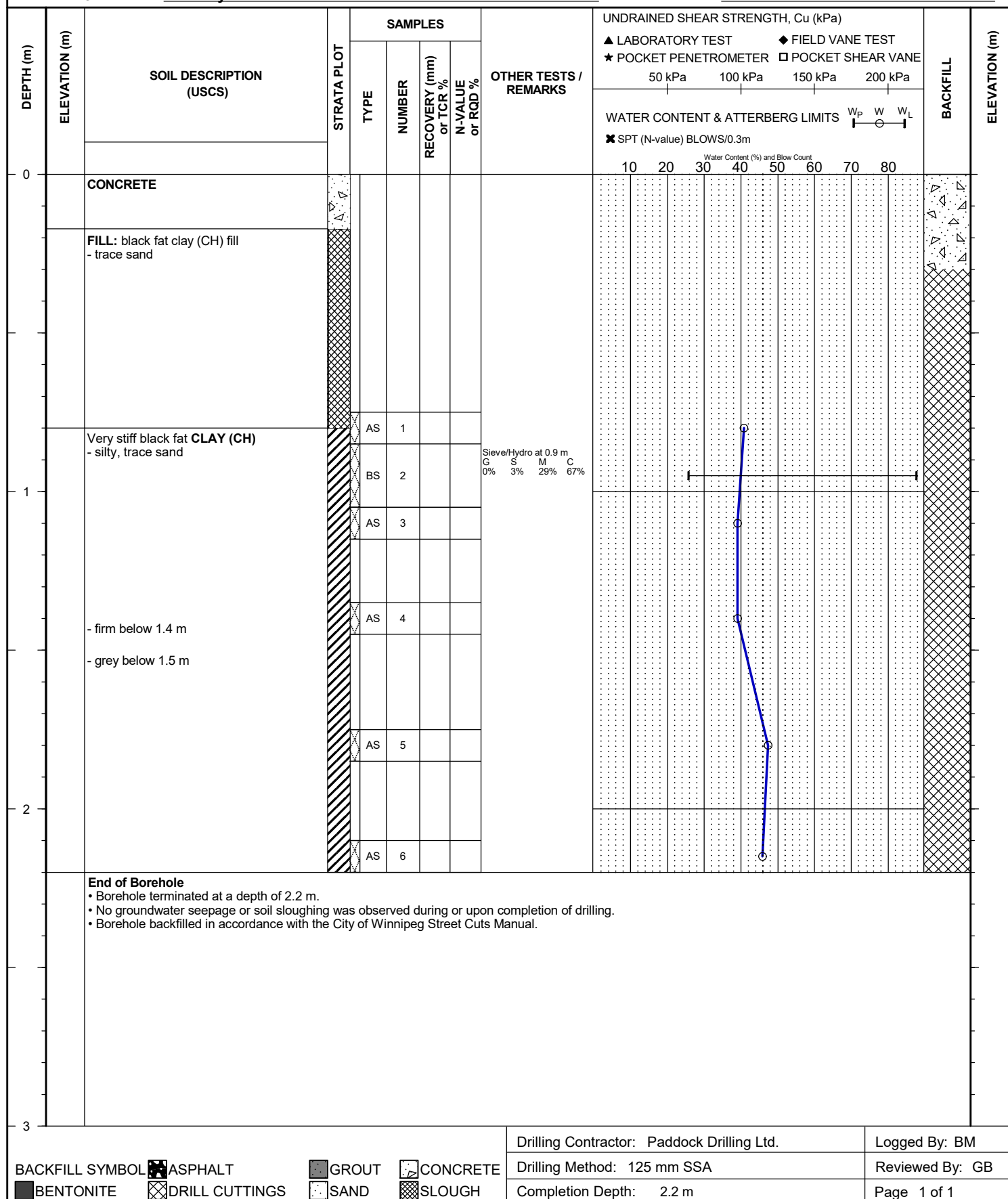
BH ELEVATION: N/A

LOCATION: Grant Ave N Service Road

DATUM: N/A

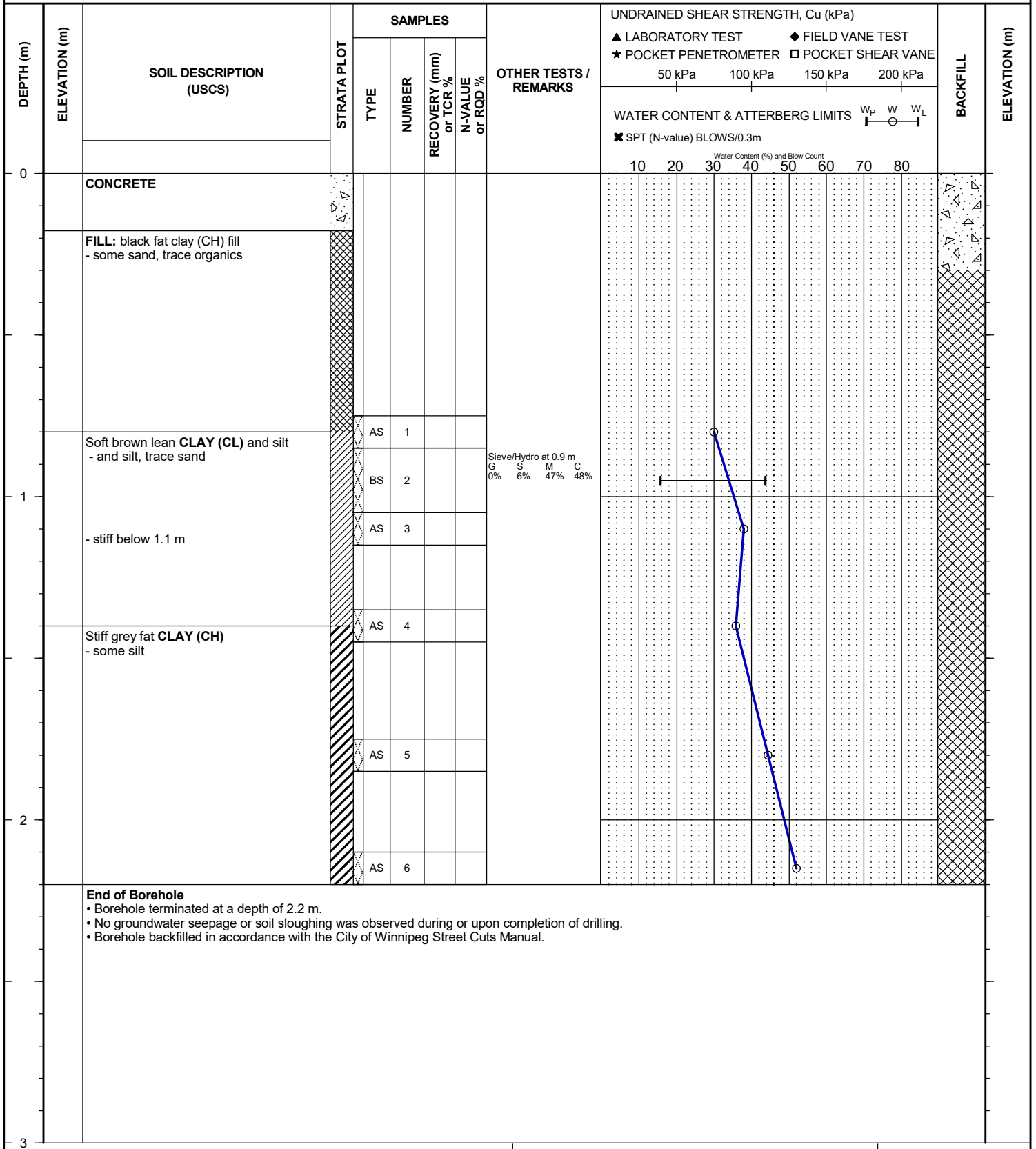
DATE BORED: **January 12 2026**

WATER LEVEL: **N/A**



CLIENT: Dillon Consulting Ltd.
 PROJECT: 2026 Local Street Renewal Program - 26-R-04
 LOCATION: Grant Ave N Service Road
 DATE BORED: January 12 2026

PROJECT NO.: 123317029
 BH ELEVATION: N/A
 DATUM: N/A
 WATER LEVEL: N/A

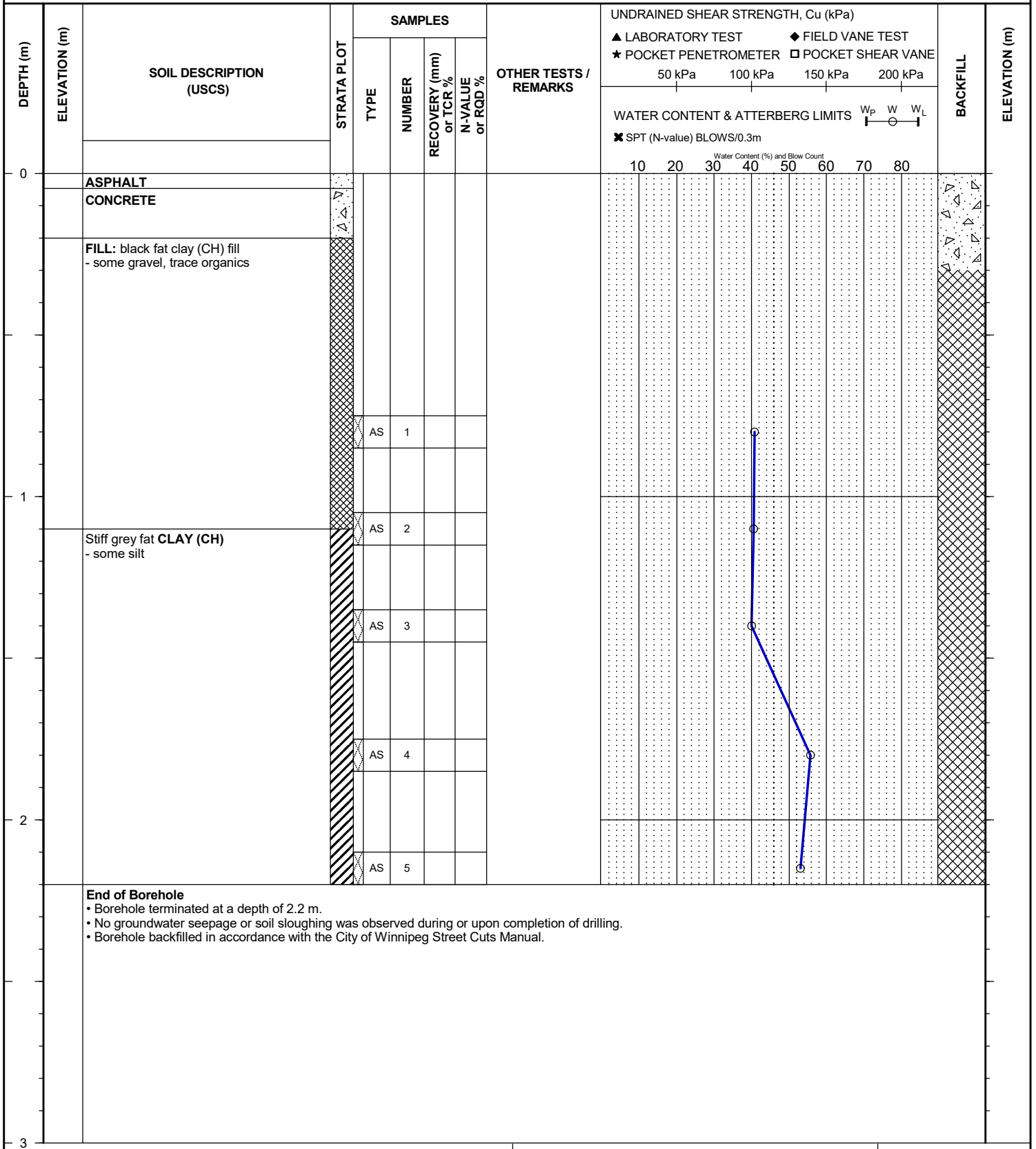


BACKFILL SYMBOL: ASPHALT GROUT CONCRETE
 BENTONITE DRILL CUTTINGS SAND SLOUGH

Drilling Contractor: Paddock Drilling Ltd. Logged By: BM
 Drilling Method: 125 mm SSA Reviewed By: GB
 Completion Depth: 2.2 m Page 1 of 1

CLIENT: Dillon Consulting Ltd.
 PROJECT: 2026 Local Street Renewal Program - 26-R-04
 LOCATION: Grant Ave N Service Road
 DATE BORED: January 12 2026

PROJECT NO.: 123317029
 BH ELEVATION: N/A
 DATUM: N/A
 WATER LEVEL: N/A



BACKFILL SYMBOL: ASPHALT GROUT CONCRETE
 BENTONITE DRILL CUTTINGS SAND SLOUGH

Drilling Contractor: Paddock Drilling Ltd. Logged By: BM
 Drilling Method: 125 mm SSA Reviewed By: GB
 Completion Depth: 2.2 m Page 1 of 1

CLIENT: Dillon Consulting Ltd.
 PROJECT: 2026 Local Street Renewal Program - 26-R-04
 LOCATION: Grant Ave N Service Road
 DATE BORED: January 12 2026

PROJECT NO.: 123317029
 BH ELEVATION: N/A
 DATUM: N/A

WATER LEVEL: N/A

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION (USCS)	STRATA PLOT	SAMPLES				OTHER TESTS / REMARKS	UNDRAINED SHEAR STRENGTH, Cu (kPa)		BACKFILL	ELEVATION (m)
				TYPE	NUMBER	RECOVERY (mm) or TCR %	N-VALUE or RQD %		50 kPa	100 kPa		
0		ASPHALT CONCRETE							▲ LABORATORY TEST ◆ FIELD VANE TEST ★ POCKET PENETROMETER □ POCKET SHEAR VANE 50 kPa 100 kPa 150 kPa 200 kPa WATER CONTENT & ATTERBERG LIMITS W _P W W _L ✕ SPT (N-value) BLOWS/0.3m 10 20 30 40 50 60 70 80			
		FILL: black fat clay (CH) fill - trace sand, trace organics										
1		Very stiff brown fat CLAY (CH) - silty, trace sand		AS	1			Sieve/Hydro at 0.9 m G S M C 0% 1% 27% 72%				
				BS	2							
				AS	3							
				AS	4							
				AS	5							
				AS	6							
2		- firm below 1.8 m										
3		End of Borehole • Borehole terminated at a depth of 2.2 m. • No groundwater seepage or soil sloughing was observed during or upon completion of drilling. • Borehole backfilled in accordance with the City of Winnipeg Street Cuts Manual.										

BACKFILL SYMBOL:
 ASPHALT
 GROUT
 CONCRETE
 SAND
 SLOUGH
 DRILL CUTTINGS

Drilling Contractor: Paddock Drilling Ltd.
 Drilling Method: 125 mm SSA
 Completion Depth: 2.2 m

Logged By: BM
 Reviewed By: GB
 Page 1 of 1

CLIENT: Dillon Consulting Ltd.
 PROJECT: 2026 Local Street Renewal Program - 26-R-04
 LOCATION: Grant Ave S Service Road
 DATE BORED: January 12 2026

PROJECT NO.: 123317029
 BH ELEVATION: N/A
 DATUM: N/A

WATER LEVEL: N/A

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION (USCS)	STRATA PLOT	SAMPLES				OTHER TESTS / REMARKS	UNDRAINED SHEAR STRENGTH, Cu (kPa)		BACKFILL	ELEVATION (m)
				TYPE	NUMBER	RECOVERY (mm) or TCR %	N-VALUE or RQD %		50 kPa	100 kPa		
0		CONCRETE							▲ LABORATORY TEST ◆ FIELD VANE TEST ★ POCKET PENETROMETER □ POCKET SHEAR VANE 50 kPa 100 kPa 150 kPa 200 kPa WATER CONTENT & ATTERBERG LIMITS W _P W W _L ✕ SPT (N-value) BLOWS/0.3m 10 20 30 40 50 60 70 80			
		FILL: black fat clay (CH) fill - some sand										
		Stiff grey fat CLAY (CH) - some silt		AS	1			Sieve/Hydro at 0.9 m G S M C 0% 0% 11% 89%				
1				BS	2							
				AS	3							
				AS	4							
				AS	5							
2				AS	6							
		- brown from 1.5 m to 1.9 m										
End of Borehole • Borehole terminated at a depth of 2.2 m. • No groundwater seepage or soil sloughing was observed during or upon completion of drilling. • Borehole backfilled in accordance with the City of Winnipeg Street Cuts Manual.												

BACKFILL SYMBOL

ASPHALT
 GROUT
 CONCRETE
 BENTONITE
 DRILL CUTTINGS
 SAND
 SLOUGH

Drilling Contractor: Paddock Drilling Ltd.

Drilling Method: 125 mm SSA

Completion Depth: 2.2 m

Logged By: BM

Reviewed By: GB

Page 1 of 1

CLIENT: Dillon Consulting Ltd.
 PROJECT: 2026 Local Street Renewal Program - 26-R-04
 LOCATION: Grant Ave S Service Road
 DATE BORED: January 12 2026

PROJECT NO.: 123317029
 BH ELEVATION: N/A
 DATUM: N/A

WATER LEVEL: N/A

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION (USCS)	STRATA PLOT	SAMPLES				OTHER TESTS / REMARKS	UNDRAINED SHEAR STRENGTH, Cu (kPa)		BACKFILL	ELEVATION (m)
				TYPE	NUMBER	RECOVERY (mm) or TCR %	N-VALUE or RQD %		50 kPa	100 kPa		
0		ASPHALT							▲ LABORATORY TEST ◆ FIELD VANE TEST ★ POCKET PENETROMETER □ POCKET SHEAR VANE 50 kPa 100 kPa 150 kPa 200 kPa			
		CONCRETE							WATER CONTENT & ATTERBERG LIMITS W _P W W _L ✕ SPT (N-value) BLOWS/0.3m 10 20 30 40 50 60 70 80			
		FILL: black fat clay (CH) fill - some sand										
		Very stiff grey fat CLAY (CH) - some silt, trace sand		AS	1			Sieve/Hydro at 0.9 m G S M C 0% 3% 22% 76%				
1				BS	2							
				AS	3							
				AS	4							
				AS	5							
2				AS	6							
End of Borehole • Borehole terminated at a depth of 2.2 m. • No groundwater seepage or soil sloughing was observed during or upon completion of drilling. • Borehole backfilled in accordance with the City of Winnipeg Street Cuts Manual.												

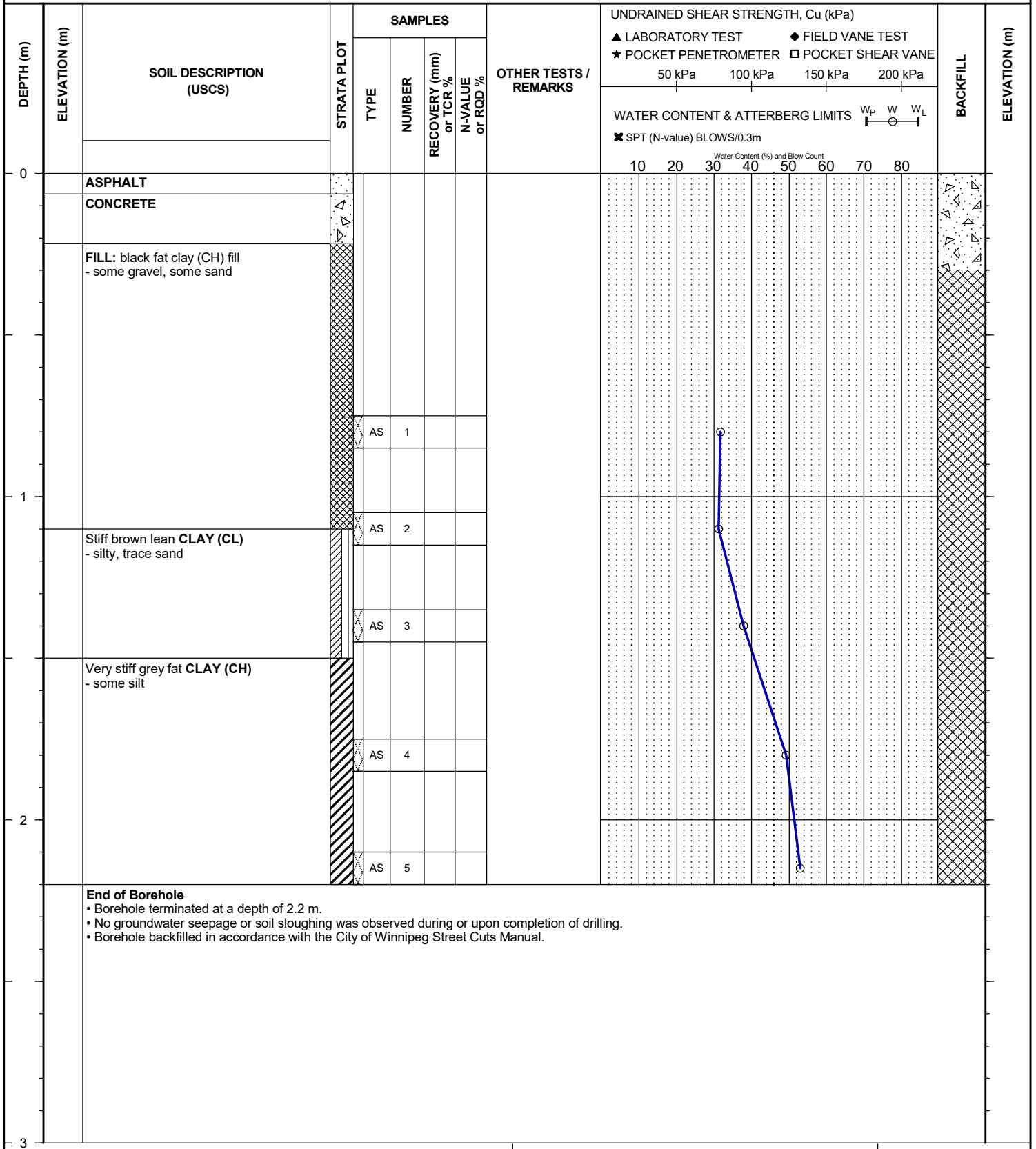
BACKFILL SYMBOL:
 ASPHALT
 GROUT
 CONCRETE
 SAND
 SLOUGH
 DRILL CUTTINGS

Drilling Contractor: Paddock Drilling Ltd.
 Drilling Method: 125 mm SSA
 Completion Depth: 2.2 m

Logged By: BM
 Reviewed By: GB
 Page 1 of 1

CLIENT: Dillon Consulting Ltd.
 PROJECT: 2026 Local Street Renewal Program - 26-R-04
 LOCATION: Grant Ave S Service Road
 DATE BORED: January 12 2026

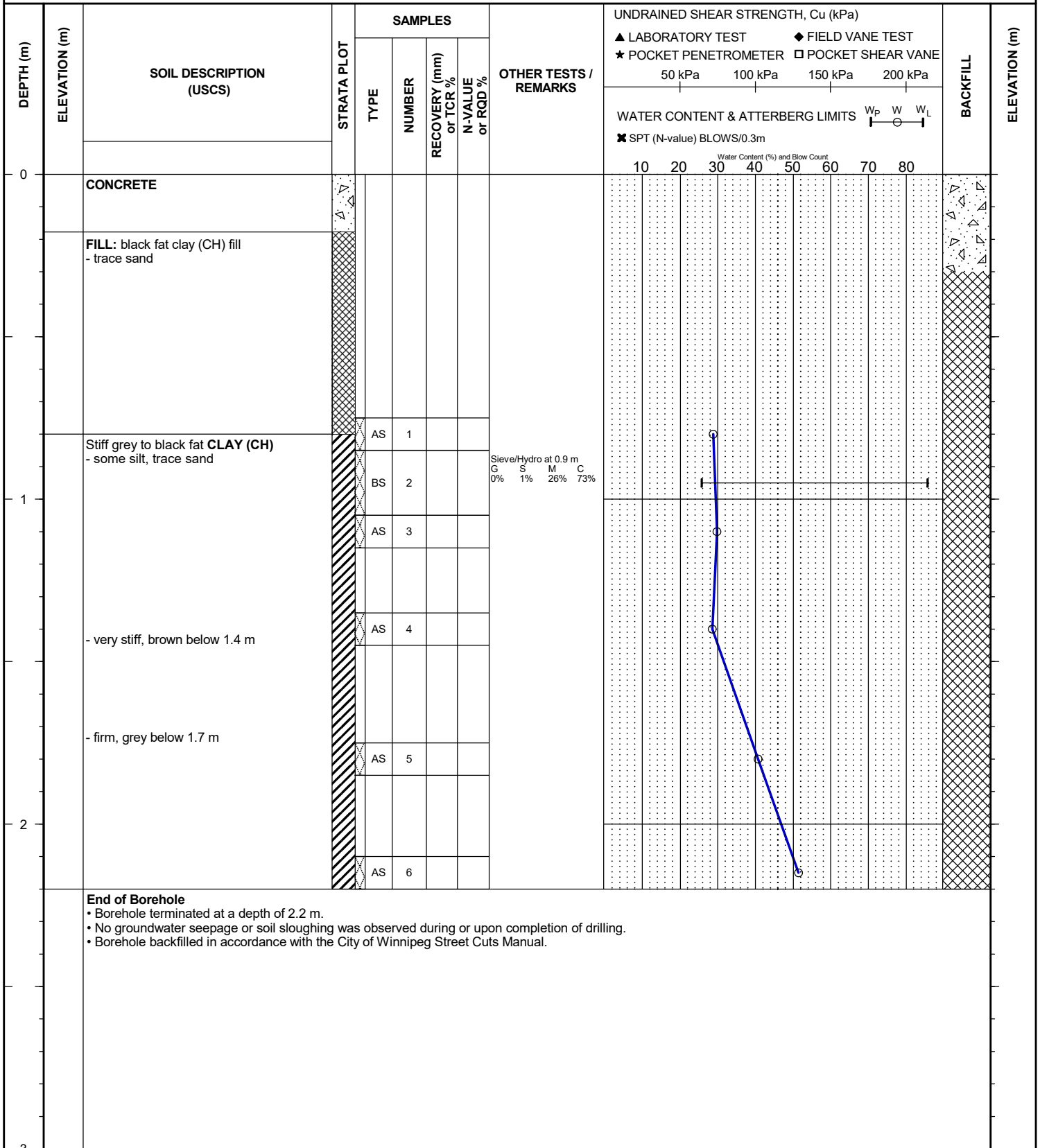
PROJECT NO.: 123317029
 BH ELEVATION: N/A
 DATUM: N/A
 WATER LEVEL: N/A



CLIENT: Dillon Consulting Ltd.
 PROJECT: 2026 Local Street Renewal Program - 26-R-04
 LOCATION: Grant Ave S Service Road
 DATE BORED: January 12 2026

PROJECT NO.: 123317029
 BH ELEVATION: N/A
 DATUM: N/A

WATER LEVEL: N/A



BACKFILL SYMBOL: ASPHALT GROUT CONCRETE
 BENTONITE DRILL CUTTINGS SAND SLOUGH

Drilling Contractor: Paddock Drilling Ltd. Logged By: BM
 Drilling Method: 125 mm SSA Reviewed By: GB
 Completion Depth: 2.2 m Page 1 of 1

CLIENT: Dillon Consulting Ltd.
 PROJECT: 2026 Local Street Renewal Program - 26-R-04
 LOCATION: Brock St
 DATE BORED: January 13 2026

PROJECT NO.: 123317029
 BH ELEVATION: N/A
 DATUM: N/A

WATER LEVEL: N/A

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION (USCS)	STRATA PLOT	SAMPLES				OTHER TESTS / REMARKS	UNDRAINED SHEAR STRENGTH, Cu (kPa)		BACKFILL	ELEVATION (m)
				TYPE	NUMBER	RECOVERY (mm) or TCR %	N-VALUE or RQD %		50 kPa	100 kPa		
0		CONCRETE							▲ LABORATORY TEST ◆ FIELD VANE TEST ★ POCKET PENETROMETER □ POCKET SHEAR VANE 50 kPa 100 kPa 150 kPa 200 kPa WATER CONTENT & ATTERBERG LIMITS W _P W W _L ✕ SPT (N-value) BLOWS/0.3m 10 20 30 40 50 60 70 80			
		FILL: black fat clay (CH) fill - trace sand										
		Stiff grey to black fat CLAY (CH) - silty, trace sand										
1			AS	1				Sieve/Hydro at 0.9 m G S M C 0% 3% 32% 66%				
			BS	2								
			AS	3								
			AS	4								
			AS	5								
			AS	6								
2.2		End of Borehole • Borehole terminated at a depth of 2.2 m. • No groundwater seepage or soil sloughing was observed during or upon completion of drilling. • Borehole backfilled in accordance with the City of Winnipeg Street Cuts Manual.										

BACKFILL SYMBOL

ASPHALT
 BENTONITE

GROUT
 DRILL CUTTINGS

CONCRETE
 SAND

SLOUGH

Drilling Contractor: Paddock Drilling Ltd.

Drilling Method: 125 mm SSA

Completion Depth: 2.2 m

Logged By: BM

Reviewed By: GB

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Stantec

BOREHOLE RECORD

BH-176

CLIENT: Dillon Consulting Ltd.

PROJECT NO.: 123317029

PROJECT: 2026 Local Street Renewal Program - 26-R-04

BH ELEVATION: N/A

LOCATION: Brock St

DATUM: N/A

DATE BORED: January 13 2026

WATER LEVEL: N/A

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION (USCS)	STRATA PLOT	SAMPLES				OTHER TESTS / REMARKS	UNDRAINED SHEAR STRENGTH, Cu (kPa)		WATER CONTENT & ATTERBERG LIMITS	BACKFILL	ELEVATION (m)
				TYPE	NUMBER	RECOVERY (mm) or TCR %	N-VALUE or RQD %		50 kPa	100 kPa			
0		CONCRETE											
		FILL: black fat clay (CH) fill - trace sand											
		Stiff brown fat CLAY (CH) - and silt, trace sand											
			AS	1									
1			BS	2				Sieve/Hydro at 0.9 m G S M C 0% 2% 43% 55%					
			AS	3									
			AS	4									
		Very stiff grey fat CLAY (CH) - some silt											
		- stiff below 1.8 m	AS	5									
2			AS	6									
		End of Borehole <ul style="list-style-type: none">Borehole terminated at a depth of 2.2 m.No groundwater seepage or soil sloughing was observed during or upon completion of drilling.Borehole backfilled in accordance with the City of Winnipeg Street Cuts Manual.											
3													

BACKFILL SYMBOL

ASPHALT

BENTONITE

DRILL CUTTINGS

SAND

GROUT

CONCRETE

SLOUGH

Drilling Contractor: Paddock Drilling Ltd.

Drilling Method: 125 mm SSA

Completion Depth: 2.2 m

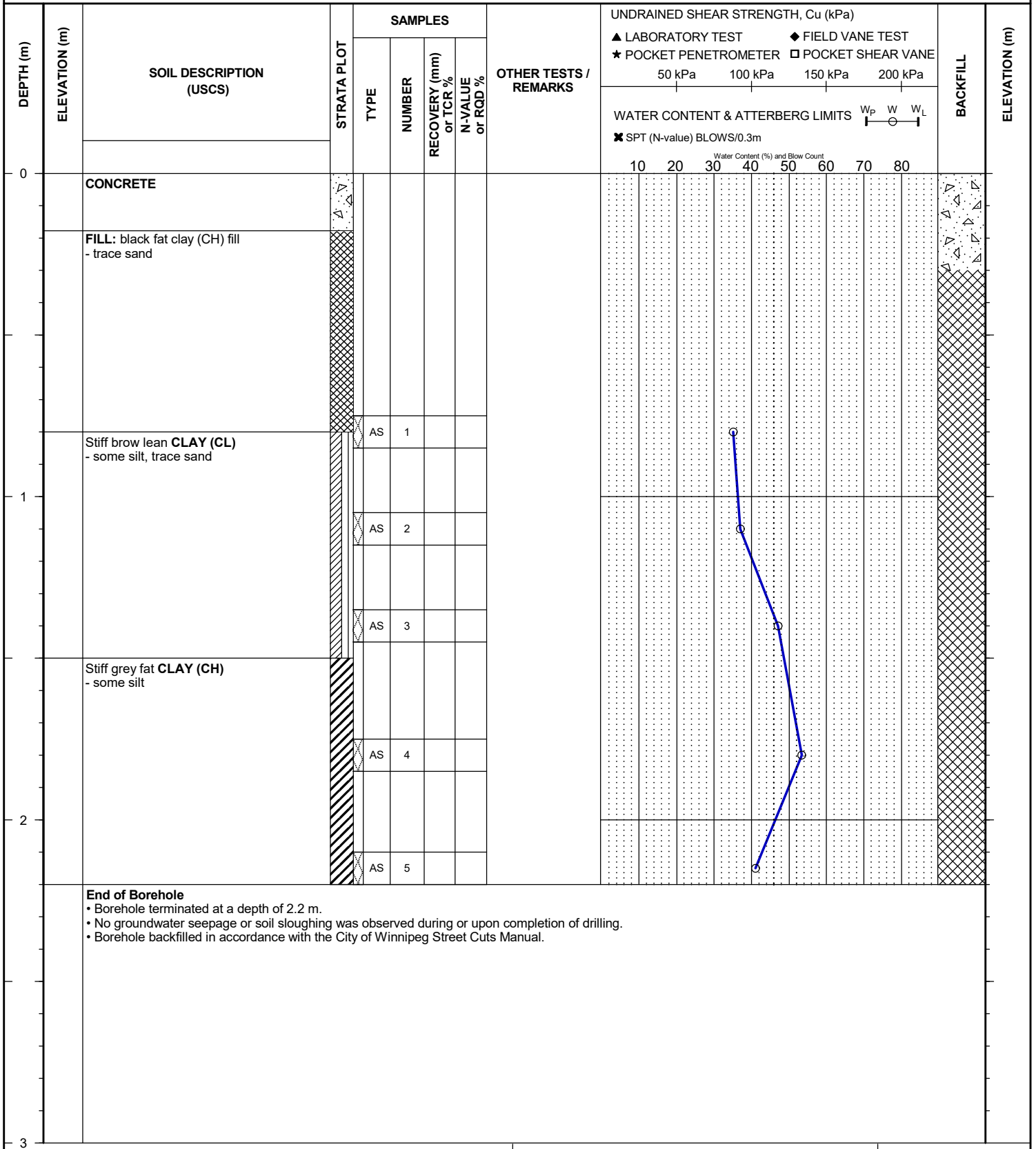
Logged By: BM

Reviewed By: GB

Page 1 of 1

CLIENT: Dillon Consulting Ltd.
 PROJECT: 2026 Local Street Renewal Program - 26-R-04
 LOCATION: Brock St
 DATE BORED: January 13 2026

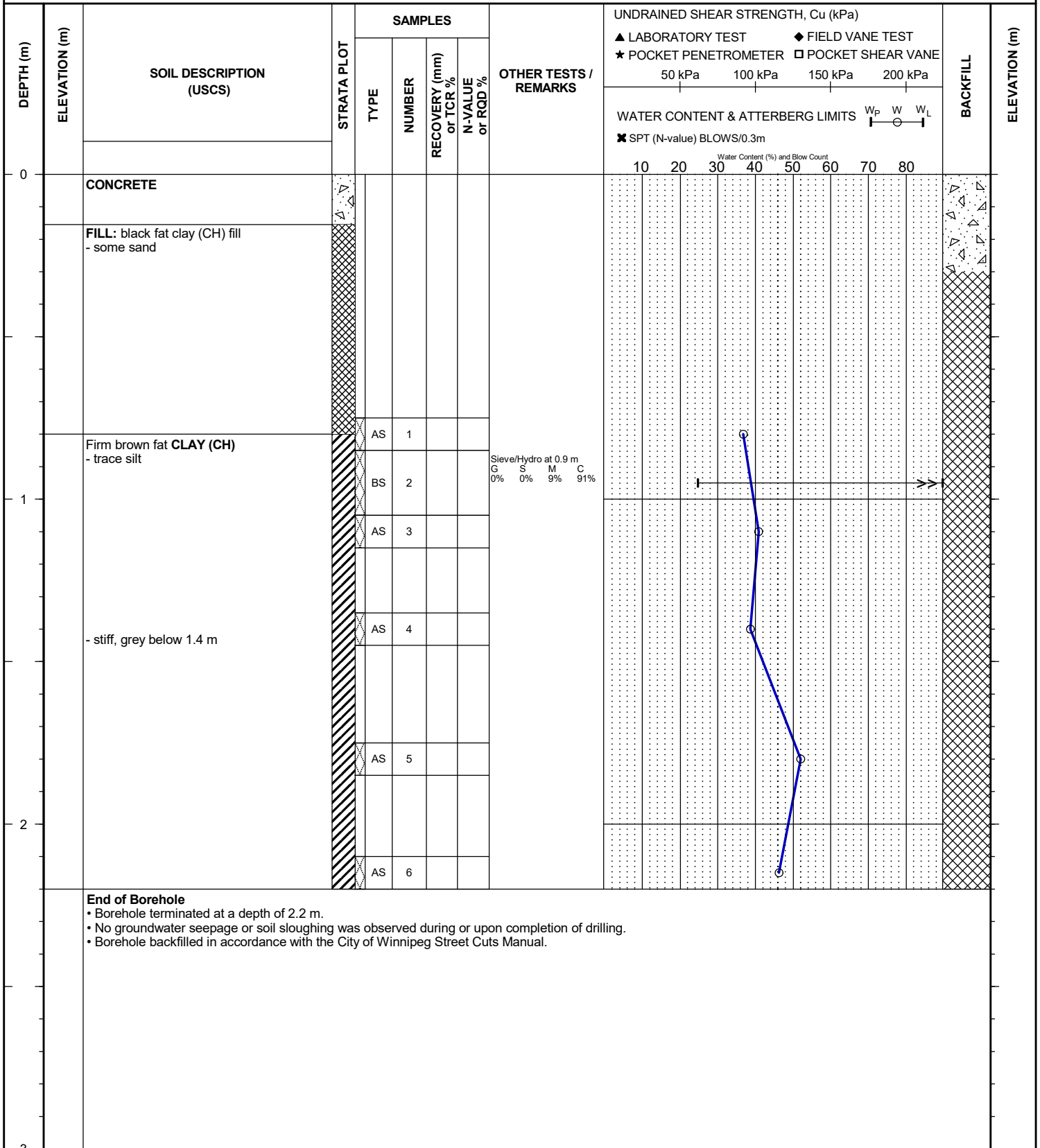
PROJECT NO.: 123317029
 BH ELEVATION: N/A
 DATUM: N/A
 WATER LEVEL: N/A



CLIENT: Dillon Consulting Ltd.
 PROJECT: 2026 Local Street Renewal Program - 26-R-04
 LOCATION: Brock St
 DATE BORED: January 13 2026

PROJECT NO.: 123317029
 BH ELEVATION: N/A
 DATUM: N/A

WATER LEVEL: N/A



End of Borehole

- Borehole terminated at a depth of 2.2 m.
- No groundwater seepage or soil sloughing was observed during or upon completion of drilling.
- Borehole backfilled in accordance with the City of Winnipeg Street Cuts Manual.

Drilling Contractor: Paddock Drilling Ltd.

Logged By: BM

Drilling Method: 125 mm SSA

Reviewed By: GB

Completion Depth: 2.2 m

Page 1 of 1

BACKFILL SYMBOL: ASPHALT GROUT CONCRETE
 BENTONITE DRILL CUTTINGS SAND SLOUGH



BOREHOLE RECORD

BH-179

CLIENT: Dillon Consulting Ltd.
PROJECT: 2026 Local Street Renewal Program - 26-R-04
LOCATION: Nassau St S
DATE BORED: January 13 2026

PROJECT NO.: 123317029
BH ELEVATION: N/A
DATUM: N/A

WATER LEVEL: N/A

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION (USCS)	STRATA PLOT	SAMPLES				OTHER TESTS / REMARKS	UNDRAINED SHEAR STRENGTH, Cu (kPa)		BACKFILL	ELEVATION (m)
				TYPE	NUMBER	RECOVERY (mm) or TCR %	N-VALUE or RQD %		LABORATORY TEST	FIELD VANE TEST		
									50 kPa 100 kPa 150 kPa 200 kPa			
									WATER CONTENT & ATTERBERG LIMITS		W _P W W _L	
									X SPT (N-value) BLOWS/0.3m			
									10 20 30 40 50 60 70 80			
0		ASPHALT CONCRETE										
		FILL: black fat clay (CH) fill - some silt, trace sand										
1		Stiff grey fat CLAY (CH) - some silt		AS 1				Sieve/Hydro at 0.9 m G S M C 0% 2% 18% 80%				
				BS 2								
				AS 3								
				AS 4								
				AS 5								
2				AS 6								
3		End of Borehole • Borehole terminated at a depth of 2.2 m. • No groundwater seepage or soil sloughing was observed during or upon completion of drilling. • Borehole backfilled in accordance with the City of Winnipeg Street Cuts Manual.										

BACKFILL SYMBOL

ASPHALT

BENTONITE

DRILL CUTTINGS

GROUT

SAND

CONCRETE

SLOUGH

Drilling Contractor: Paddock Drilling Ltd.

Drilling Method: 125 mm SSA

Completion Depth: 2.2 m

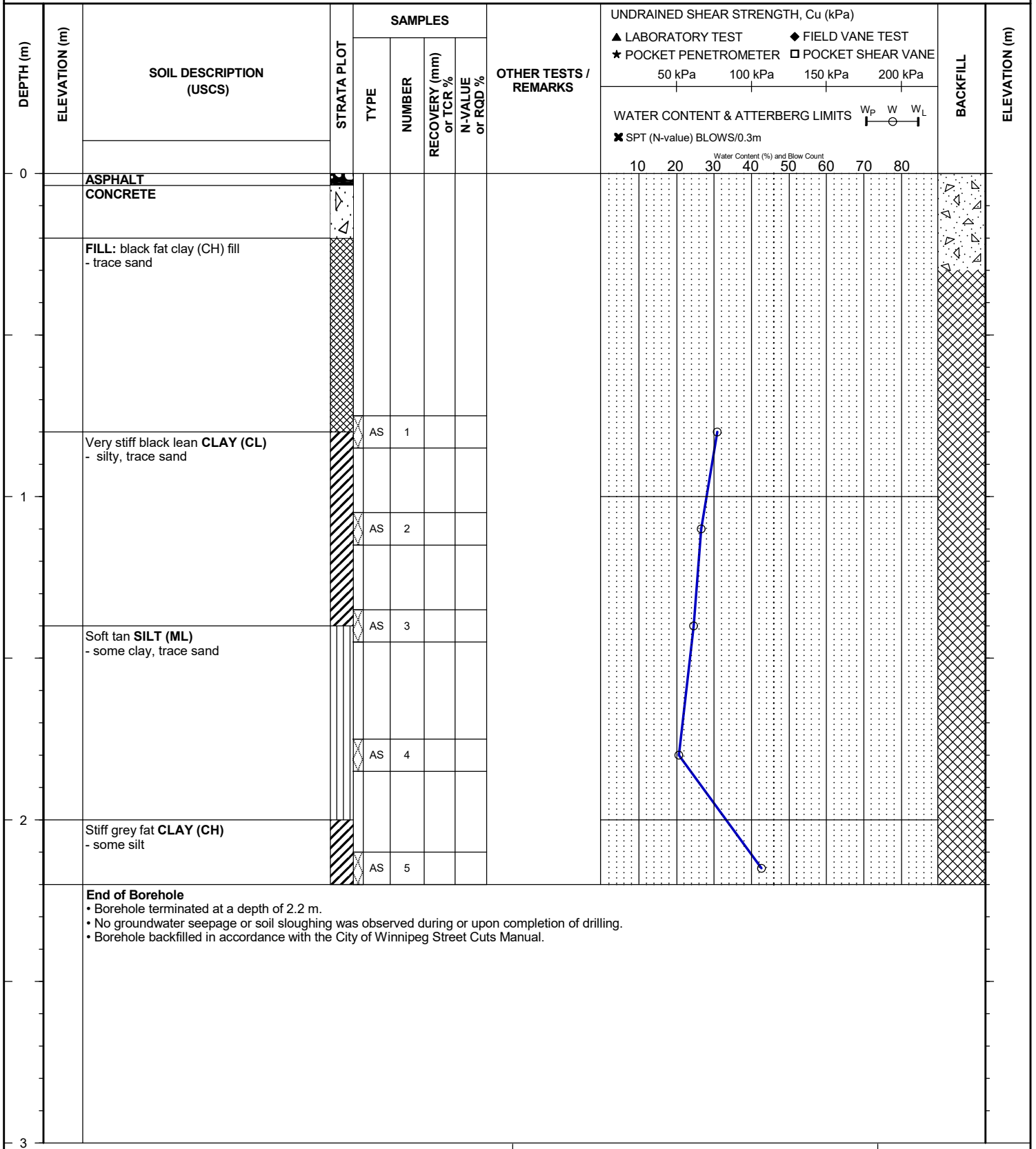
Logged By: BM

Reviewed By: GB

Page 1 of 1

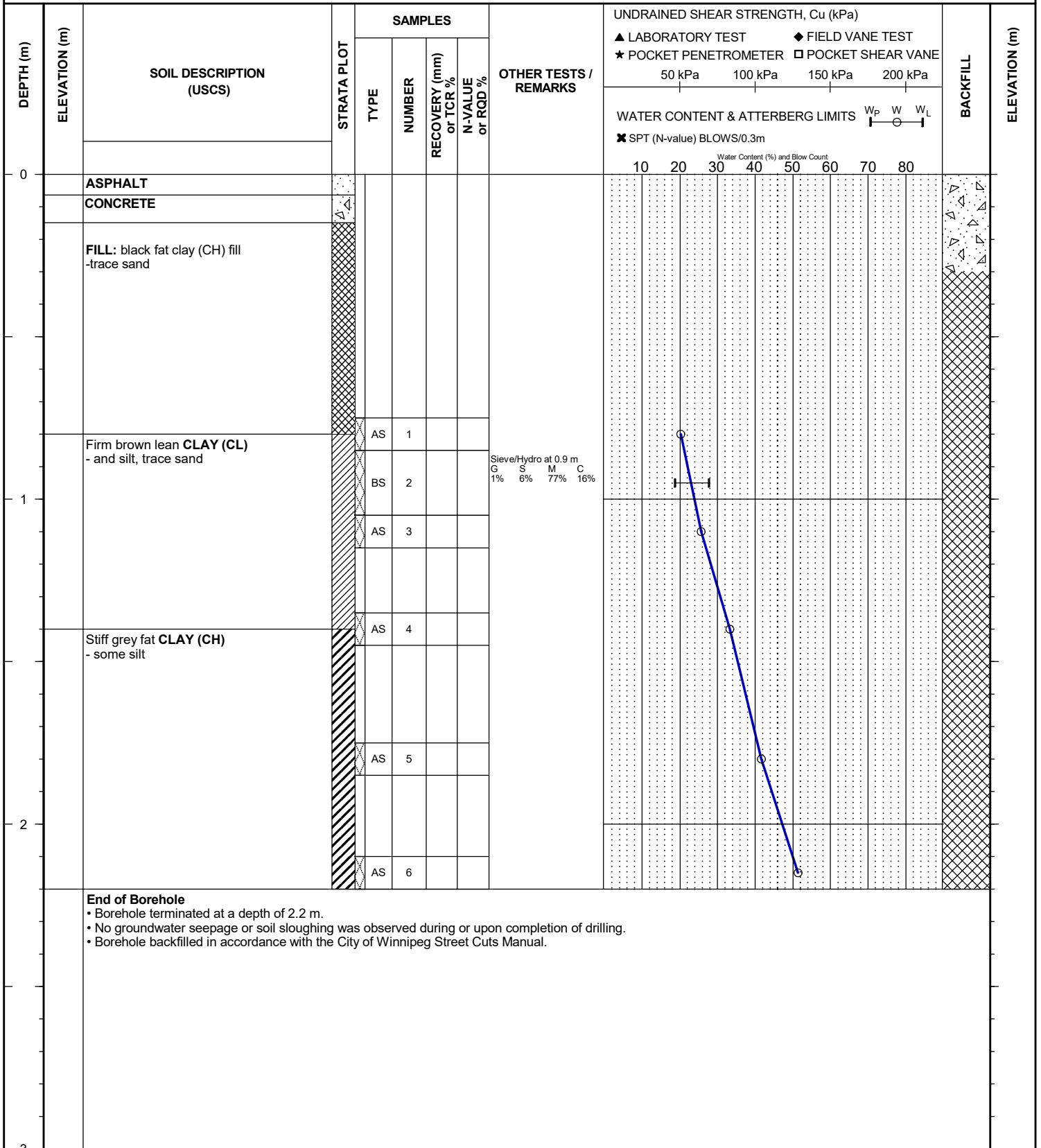
CLIENT: Dillon Consulting Ltd.
 PROJECT: 2026 Local Street Renewal Program - 26-R-04 BM
 LOCATION: Nassau St S
 DATE BORED: January 13 2026

PROJECT NO.: 123317029
 BH ELEVATION: N/A
 DATUM: N/A
 WATER LEVEL: N/A



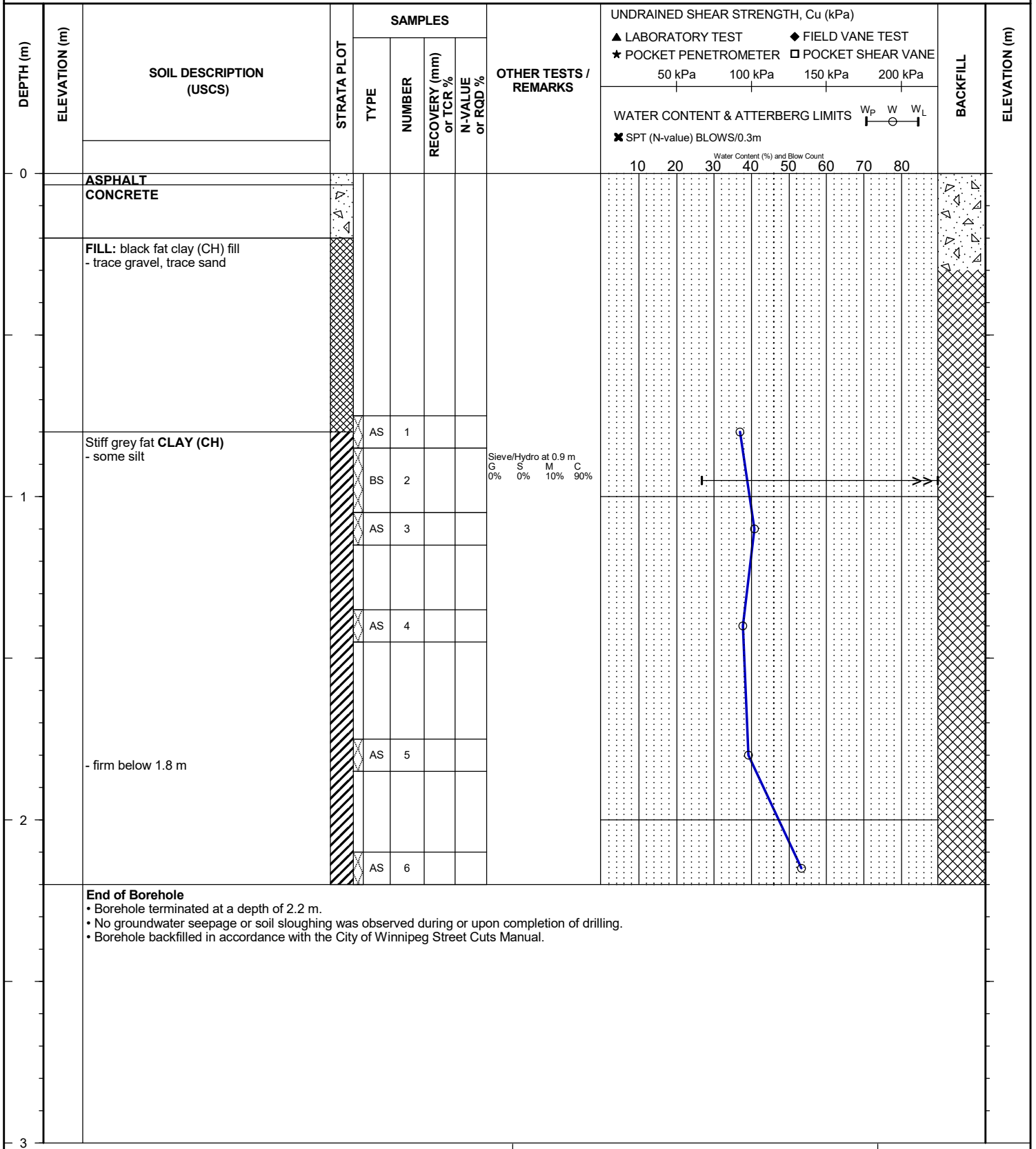
CLIENT: Dillon Consulting Ltd.
 PROJECT: 2026 Local Street Renewal Program - 26-R-04
 LOCATION: Nassau St S
 DATE BORED: January 13 2026

PROJECT NO.: 123317029
 BH ELEVATION: N/A
 DATUM: N/A
 WATER LEVEL: N/A



CLIENT: Dillon Consulting Ltd.
 PROJECT: 2026 Local Street Renewal Program - 26-R-04
 LOCATION: Nassau St S
 DATE BORED: January 13 2026

PROJECT NO.: 123317029
 BH ELEVATION: N/A
 DATUM: N/A
 WATER LEVEL: N/A





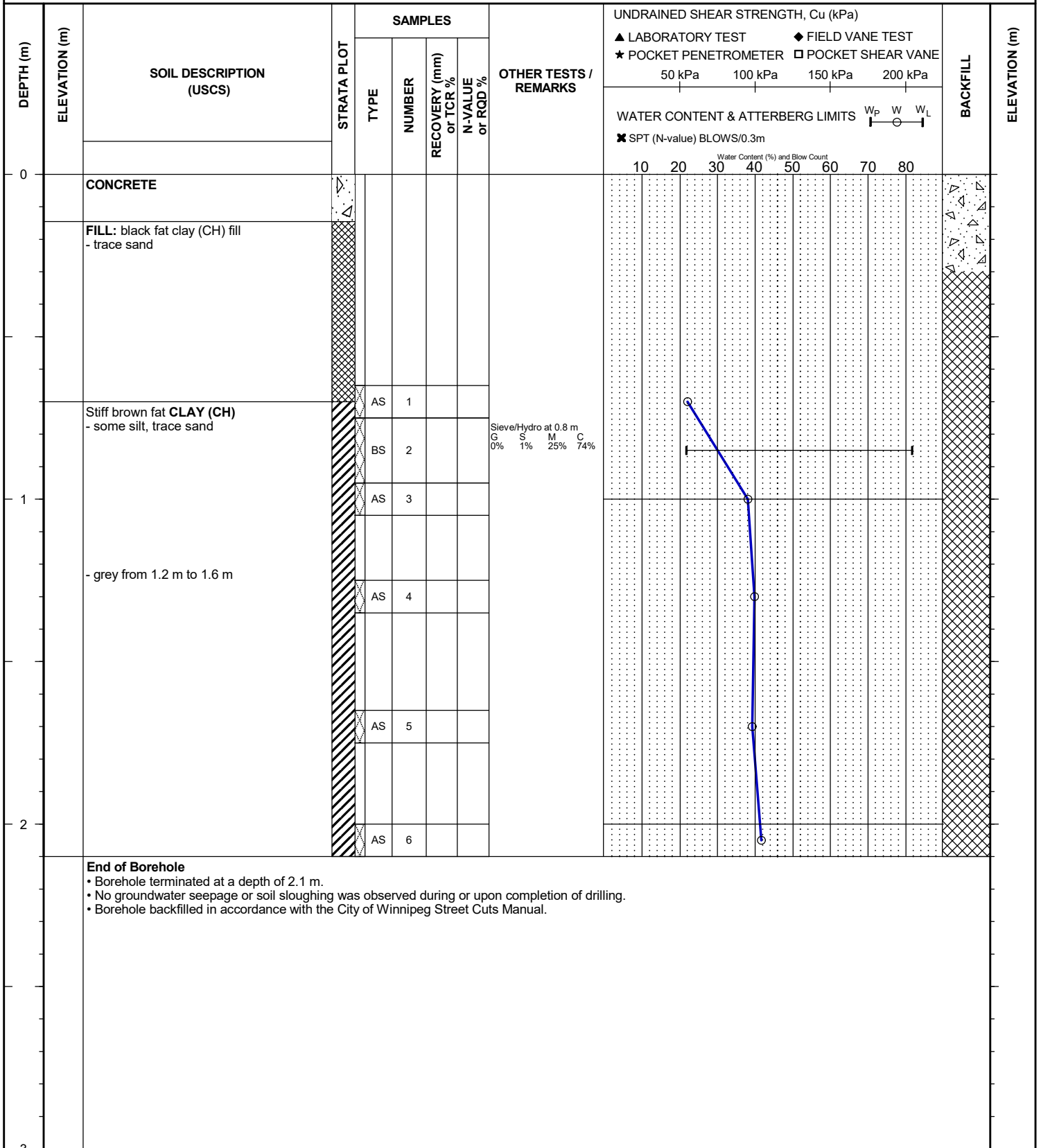
Stantec

BOREHOLE RECORD

BH-183

CLIENT: Dillon Consulting Ltd.
 PROJECT: 2026 Local Street Renewal Program - 26-R-04
 LOCATION: Weatherdon Ave
 DATE BORED: January 14 2026

PROJECT NO.: 123317029
 BH ELEVATION: N/A
 DATUM: N/A
 WATER LEVEL: N/A



BACKFILL SYMBOL: ASPHALT GROUT CONCRETE
 BENTONITE DRILL CUTTINGS SAND SLOUGH

Drilling Contractor: Paddock Drilling Ltd. Logged By: BM
 Drilling Method: 125 mm SSA Reviewed By: GB
 Completion Depth: 2.1 m Page 1 of 1

CLIENT: Dillon Consulting Ltd.
 PROJECT: 2026 Local Street Renewal Program - 26-R-04
 LOCATION: Weatherdon Ave
 DATE BORED: January 14 2026

PROJECT NO.: 123317029
 BH ELEVATION: N/A
 DATUM: N/A

WATER LEVEL: N/A

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION (USCS)	STRATA PLOT	SAMPLES				OTHER TESTS / REMARKS	UNDRAINED SHEAR STRENGTH, Cu (kPa)		BACKFILL	ELEVATION (m)
				TYPE	NUMBER	RECOVERY (mm) or TCR %	N-VALUE or RQD %		50 kPa	100 kPa		
0		ASPHALT							▲ LABORATORY TEST ◆ FIELD VANE TEST ★ POCKET PENETROMETER □ POCKET SHEAR VANE 50 kPa 100 kPa 150 kPa 200 kPa WATER CONTENT & ATTERBERG LIMITS W _P W W _L ✕ SPT (N-value) BLOWS/0.3m 10 20 30 40 50 60 70 80			
		CONCRETE										
		FILL: black fat clay (CH) fill - trace sand										
		Stiff grey fat CLAY (CH) - some silt		AS	1							
1		- very stiff from 1.1 m to 1.8 m		AS	2							
				AS	3							
				AS	4							
2				AS	5							
End of Borehole • Borehole terminated at a depth of 2.2 m. • No groundwater seepage or soil sloughing was observed during or upon completion of drilling. • Borehole backfilled in accordance with the City of Winnipeg Street Cuts Manual.												

BACKFILL SYMBOL:
 ASPHALT
 GROUT
 CONCRETE
 SAND
 SLOUGH
 DRILL CUTTINGS

Drilling Contractor: Paddock Drilling Ltd.
 Drilling Method: 125 mm SSA
 Completion Depth: 2.2 m

Logged By: BM
 Reviewed By: GB
 Page 1 of 1



Stantec

BOREHOLE RECORD

BH-185

CLIENT: Dillon Consulting Ltd.

PROJECT NO.: 123317029

PROJECT: 2026 Local Street Renewal Program - 26-R-04

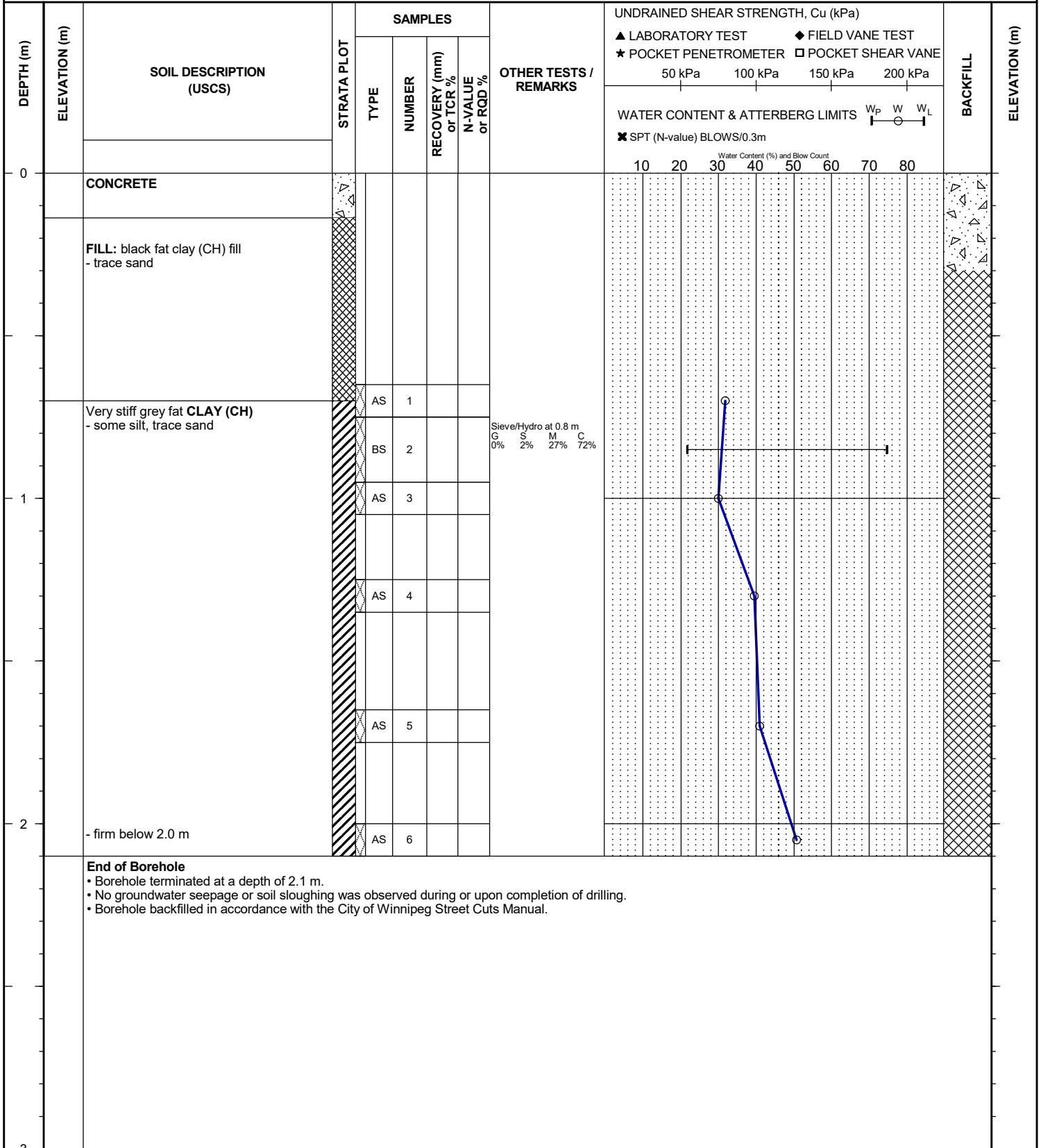
BH ELEVATION: N/A

LOCATION: Weatherdon Ave

DATUM: N/A

DATE BORED: January 14 2026

WATER LEVEL: N/A

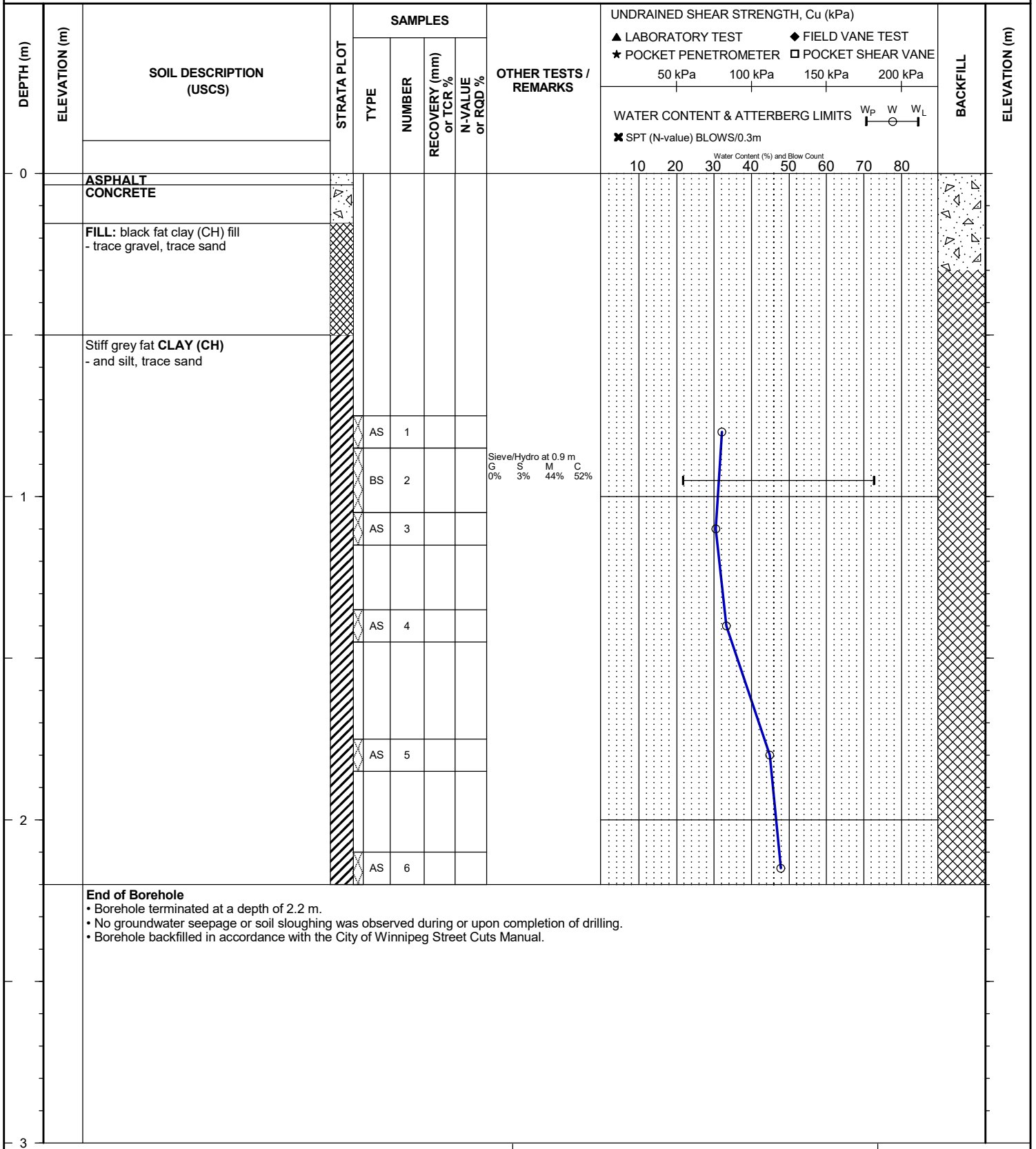


BACKFILL SYMBOL: ASPHALT GROUT CONCRETE
 BENTONITE DRILL CUTTINGS SAND SLOUGH

Drilling Contractor: Paddock Drilling Ltd.	Logged By: BM
Drilling Method: 125 mm SSA	Reviewed By: GB
Completion Depth: 2.1 m	Page 1 of 1

CLIENT: Dillon Consulting Ltd.
 PROJECT: 2026 Local Street Renewal Program - 26-R-04
 LOCATION: Alley (Academy/Ash/Oak/Kingsway)
 DATE BORED: January 14 2026

PROJECT NO.: 123317029
 BH ELEVATION: N/A
 DATUM: N/A
 WATER LEVEL: N/A



CLIENT: **Dillon Consulting Ltd.**

PROJECT NO.: **123317029**

PROJECT: **2026 Local Street Renewal Program - 26-R-04**

BH ELEVATION: N/A

LOCATION: Alley (Academy/Ash/Oak/Kingsway)

DATUM: N/A

DATE BORED: January 14 2026

WATER LEVEL: N/A

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION (USCS)	STRATA PLOT	SAMPLES				OTHER TESTS / REMARKS	UNDRAINED SHEAR STRENGTH, Cu (kPa)		BACKFILL	ELEVATION (m)
				TYPE	NUMBER	RECOVERY (mm) or TCR %	N-VALUE or RQD %		LABORATORY TEST ▲ POCKET PENETROMETER ★ SPT (N-value) BLOWS/0.3m	FIELD VANE TEST ◆ POCKET SHEAR VANE		
									50 kPa 100 kPa 150 kPa 200 kPa			
									Water Content & Atterberg Limits			
									W _p W W _L			
									Water Content (%) and Blow Count			
									10 20 30 40 50 60 70 80			
0		CONCRETE	[Symbol]								[Symbol]	
		FILL: black fat clay (CH) fill - trace sand	[Symbol]								[Symbol]	
		Stiff grey fat CLAY (CH) - some silt, trace silt	[Symbol]	AS	1						[Symbol]	
			[Symbol]	BS	2			Sieve/Hydro at 0.9 m G 0% S 2% M 19% C 79%			[Symbol]	
			[Symbol]	AS	3						[Symbol]	
		brown below 1.4 m	[Symbol]	AS	4						[Symbol]	
			[Symbol]	AS	5						[Symbol]	
			[Symbol]	AS	6						[Symbol]	
End of Borehole		<ul style="list-style-type: none"> Borehole terminated at a depth of 2.2 m. No groundwater seepage or soil sloughing was observed during or upon completion of drilling. Borehole backfilled in accordance with the City of Winnipeg Street Cuts Manual. 										

Drilling Contractor: Paddock Drilling Ltd.

Drilling Method: 125 mm SSA

Completion Depth: 2.2 m

Logged By: BM

Reviewed By: GB

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BACKFILL SYMBOL

ASPHALT

GROUT

CONCRETE

BENTONITE

DRILL CUTTINGS

SAND

SLOUGH



BOREHOLE RECORD

BH-188

CLIENT: Dillon Consulting Ltd.
PROJECT: 2026 Local Street Renewal Program - 26-R-04
LOCATION: Alley (Academy/Ash/Oak/Kingsway)
DATE BORED: January 14 2026

PROJECT NO.: 123317029
BH ELEVATION: N/A
DATUM: N/A
WATER LEVEL: N/A

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION (USCS)	STRATA PLOT	SAMPLES				OTHER TESTS / REMARKS	UNDRAINED SHEAR STRENGTH, Cu (kPa)				BACKFILL	ELEVATION (m)
				TYPE	NUMBER	RECOVERY (mm) or TCR %	N-VALUE or RQD %		50 kPa	100 kPa	150 kPa	200 kPa		
0		CONCRETE							WATER CONTENT & ATTERBERG LIMITS					
		FILL: black fat clay (CH) fill - trace sand							SPT (N-value) BLOWS/0.3m					
		Black fat CLAY (CH) - some silt, trace sand, trace organics							Water Content (%) and Blow Count					
1		Soft tan SILT (ML) - some clay, trace sand		AS	1				10 20 30 40 50 60 70 80					
				BS	2			Sieve/Hydro at 0.9 m G S M C 0% 6% 34% 60%						
				AS	3									
				AS	4									
		Firm brown lean CLAY (CL) - some silt, trace sand		AS	5									
2		Firm grey fat CLAY (CH) - trace silt		AS	6									
End of Borehole <ul style="list-style-type: none">Borehole terminated at a depth of 2.2 m.No groundwater seepage or soil sloughing was observed during or upon completion of drilling.Borehole backfilled in accordance with the City of Winnipeg Street Cuts Manual.														

BACKFILL SYMBOL

ASPHALT

BENTONITE

DRILL CUTTINGS

GROUT

SAND

CONCRETE

SLOUGH

Drilling Contractor: Paddock Drilling Ltd.

Drilling Method: 125 mm SSA

Completion Depth: 2.2 m

Logged By: BM

Reviewed By: GB

Page 1 of 1

CLIENT: Dillon Consulting Ltd.
 PROJECT: 2026 Local Street Renewal Program - 26-R-04
 LOCATION: Alley (Cockburn/McMillan/Corydon/Hugo)
 DATE BORED: January 15 2026

PROJECT NO.: 123317029
 BH ELEVATION: N/A
 DATUM: N/A
 WATER LEVEL: N/A

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION (USCS)	STRATA PLOT	SAMPLES				OTHER TESTS / REMARKS	UNDRAINED SHEAR STRENGTH, Cu (kPa)		BACKFILL	ELEVATION (m)
				TYPE	NUMBER	RECOVERY (mm) or TCR %	N-VALUE or RQD %		50 kPa	100 kPa		
0		CONCRETE							▲ LABORATORY TEST ◆ FIELD VANE TEST ★ POCKET PENETROMETER □ POCKET SHEAR VANE 50 kPa 100 kPa 150 kPa 200 kPa WATER CONTENT & ATTERBERG LIMITS W _P W W _L ✕ SPT (N-value) BLOWS/0.3m 10 20 30 40 50 60 70 80			
		FILL: black fat clay (CH) fill - some gravel, trace sand										
1		Firm grey fat CLAY (CH) - and silt, trace sand		AS	1			Sieve/Hydro at 0.9 m G S M C 0% 3% 56% 41%				
				BS	2							
				AS	3							
				AS	4							
				AS	5							
				AS	6							
2		- stiff below 1.4 m										
3		End of Borehole • Borehole terminated at a depth of 2.2 m. • No groundwater seepage or soil sloughing was observed during or upon completion of drilling. • Borehole backfilled in accordance with the City of Winnipeg Street Cuts Manual.										

BACKFILL SYMBOL

ASPHALT
 BENTONITE

GROUT
 DRILL CUTTINGS

CONCRETE
 SAND

SLOUGH

Drilling Contractor: Paddock Drilling Ltd.

Drilling Method: 125 mm SSA

Completion Depth: 2.2 m

Logged By: BM

Reviewed By: GB

Page 1 of 1



Stantec

BOREHOLE RECORD

BH-190

CLIENT: Dillon Consulting Ltd.

PROJECT NO.: 123317029

PROJECT: 2026 Local Street Renewal Program - 26-R-04

BH ELEVATION: N/A

LOCATION: Alley (Cockburn/McMillan/Corydon/Hugo)

DATUM: N/A

DATE BORED: January 14 2026

WATER LEVEL: N/A

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION (USCS)	STRATA PLOT	SAMPLES				OTHER TESTS / REMARKS	UNDRAINED SHEAR STRENGTH, Cu (kPa)				BACKFILL	ELEVATION (m)
				TYPE	NUMBER	RECOVERY (mm) or TCR %	N-VALUE or RQD %		50 kPa	100 kPa	150 kPa	200 kPa		
0		ASPHALT							▲ LABORATORY TEST ◆ FIELD VANE TEST ★ POCKET PENETROMETER □ POCKET SHEAR VANE 50 kPa 100 kPa 150 kPa 200 kPa					
		CONCRETE							WATER CONTENT & ATTERBERG LIMITS W _P W W _L ✕ SPT (N-value) BLOWS/0.3m					
		FILL: black fat clay (CH) fill - some gravel, trace sand							10 20 30 40 50 60 70 80					
1		Stiff grey fat CLAY (CH) - some silt, trace sand		AS	1									
		- very stiff below 1.2 m		AS	2									
				AS	3									
2		- stiff below 1.9 m		AS	4									
				AS	5									
3		End of Borehole <ul style="list-style-type: none">Borehole terminated at a depth of 2.3 m.No groundwater seepage or soil sloughing was observed during or upon completion of drilling.Borehole backfilled in accordance with the City of Winnipeg Street Cuts Manual.												

BACKFILL SYMBOL

ASPHALT GROUT CONCRETE
 BENTONITE DRILL CUTTINGS SAND SLOUGH

Drilling Contractor: Paddock Drilling Ltd.

Drilling Method: 125 mm SSA

Completion Depth: 2.3 m

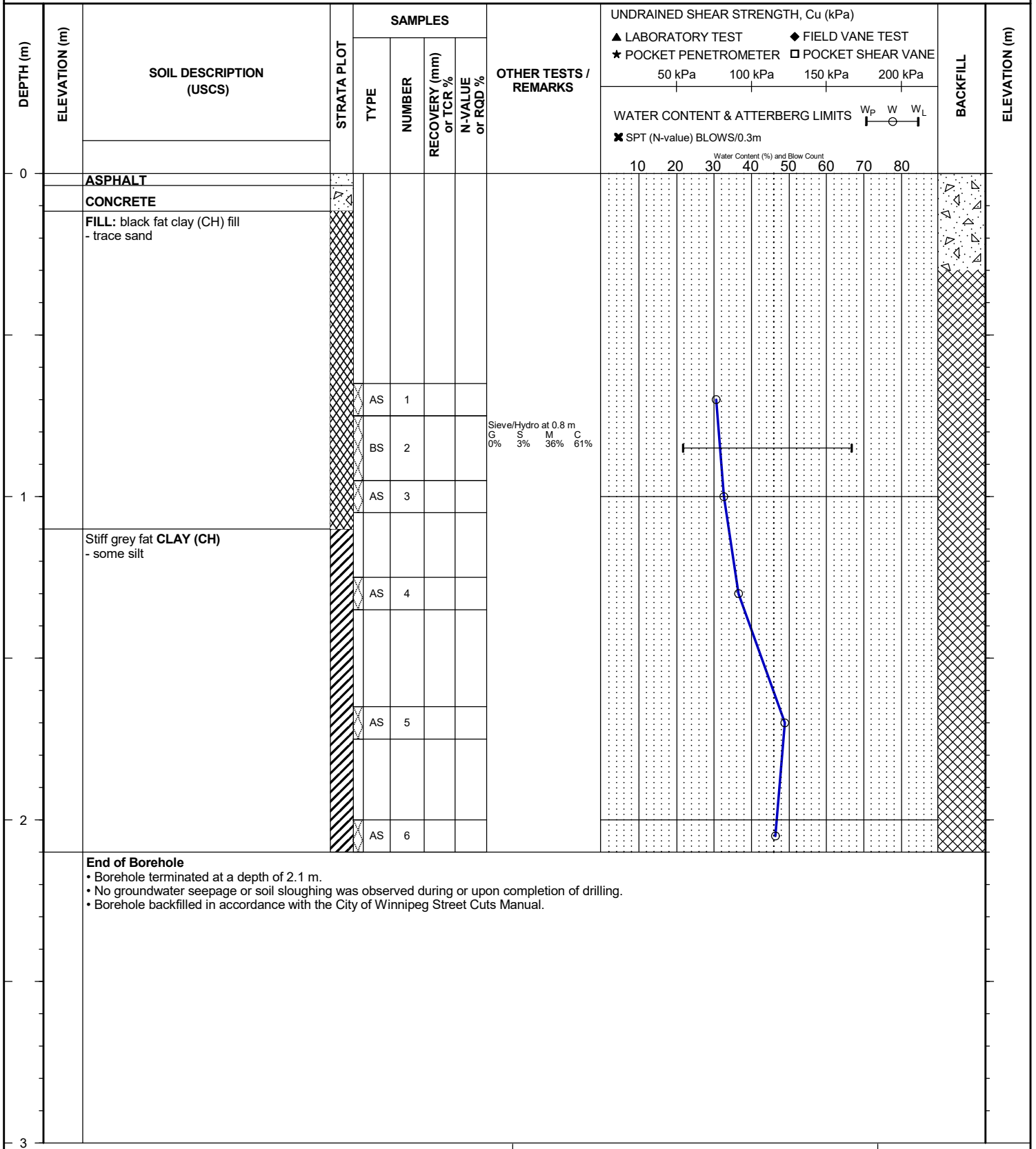
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Reviewed By: GB

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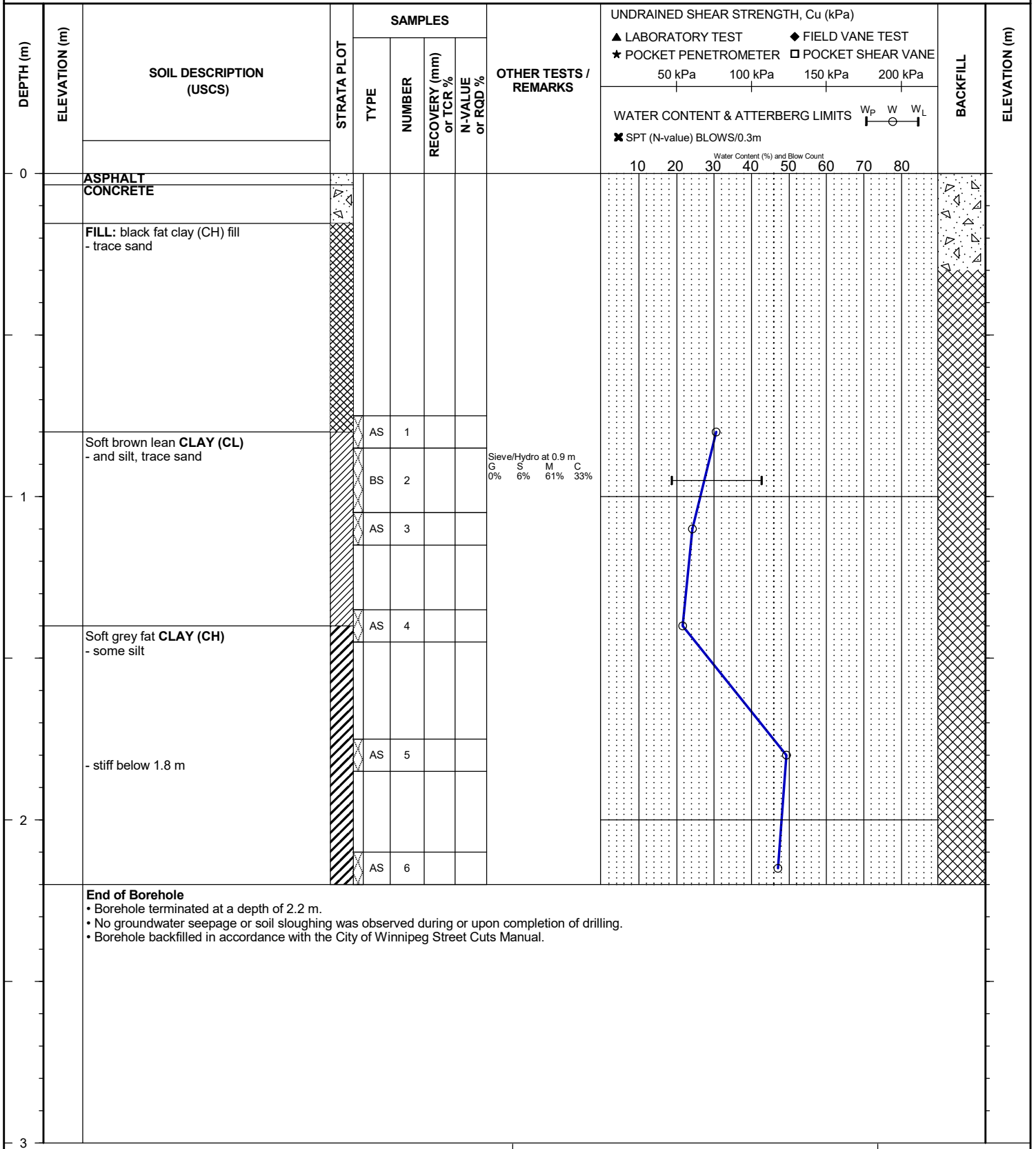
CLIENT: Dillon Consulting Ltd.
 PROJECT: 2026 Local Street Renewal Program - 26-R-04
 LOCATION: Alley (Grosvenor/Campbell/Cordova/Corydon)
 DATE BORED: January 15 2026

PROJECT NO.: 123317029
 BH ELEVATION: N/A
 DATUM: N/A
 WATER LEVEL: N/A



CLIENT: Dillon Consulting Ltd.
 PROJECT: 2026 Local Street Renewal Program - 26-R-04
 LOCATION: Alley (Grosvenor/Campbell/Cordova/Corydon)
 DATE BORED: January 15 2026

PROJECT NO.: 123317029
 BH ELEVATION: N/A
 DATUM: N/A
 WATER LEVEL: N/A



CLIENT: **Dillon Consulting Ltd.**

PROJECT NO.: **123317029**

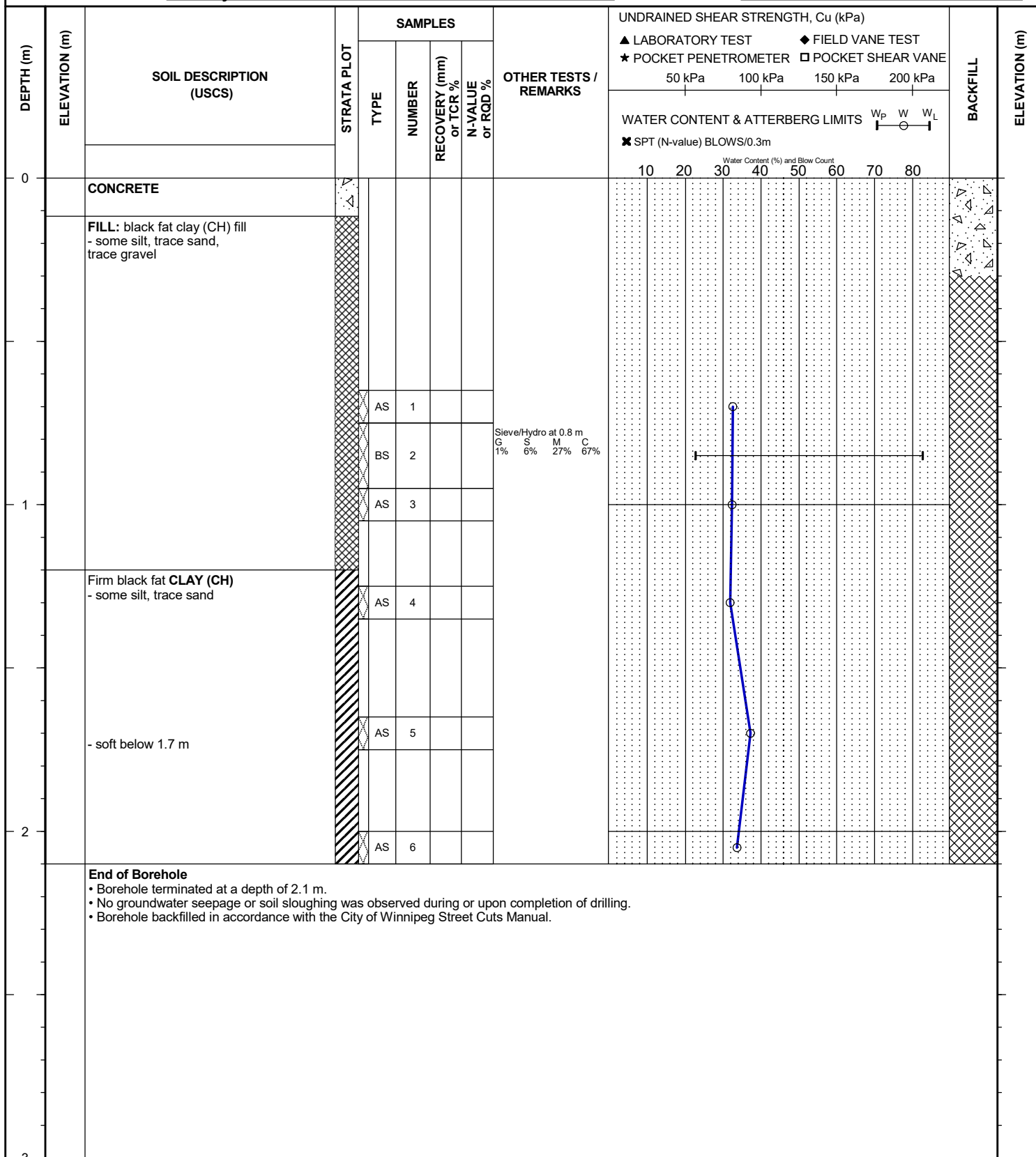
PROJECT: 2026 Local Street Renewal Program - 26-R-04

BH ELEVATION: N/A

LOCATION: Alley (Grosvenor/Campbell/Cordova/Corydon)

DATUM: N/A

DATE BORED: January 15 2026

WATER LEVEL: N/A

End of Borehole

- Borehole terminated at a depth of 2.1 m.
- No groundwater seepage or soil sloughing was observed during or upon completion of drilling.
- Borehole backfilled in accordance with the City of Winnipeg Street Cuts Manual.

Drilling Contractor: Paddock Drilling Ltd.

Logged By: BM

Drilling Method: 125 mm SSA

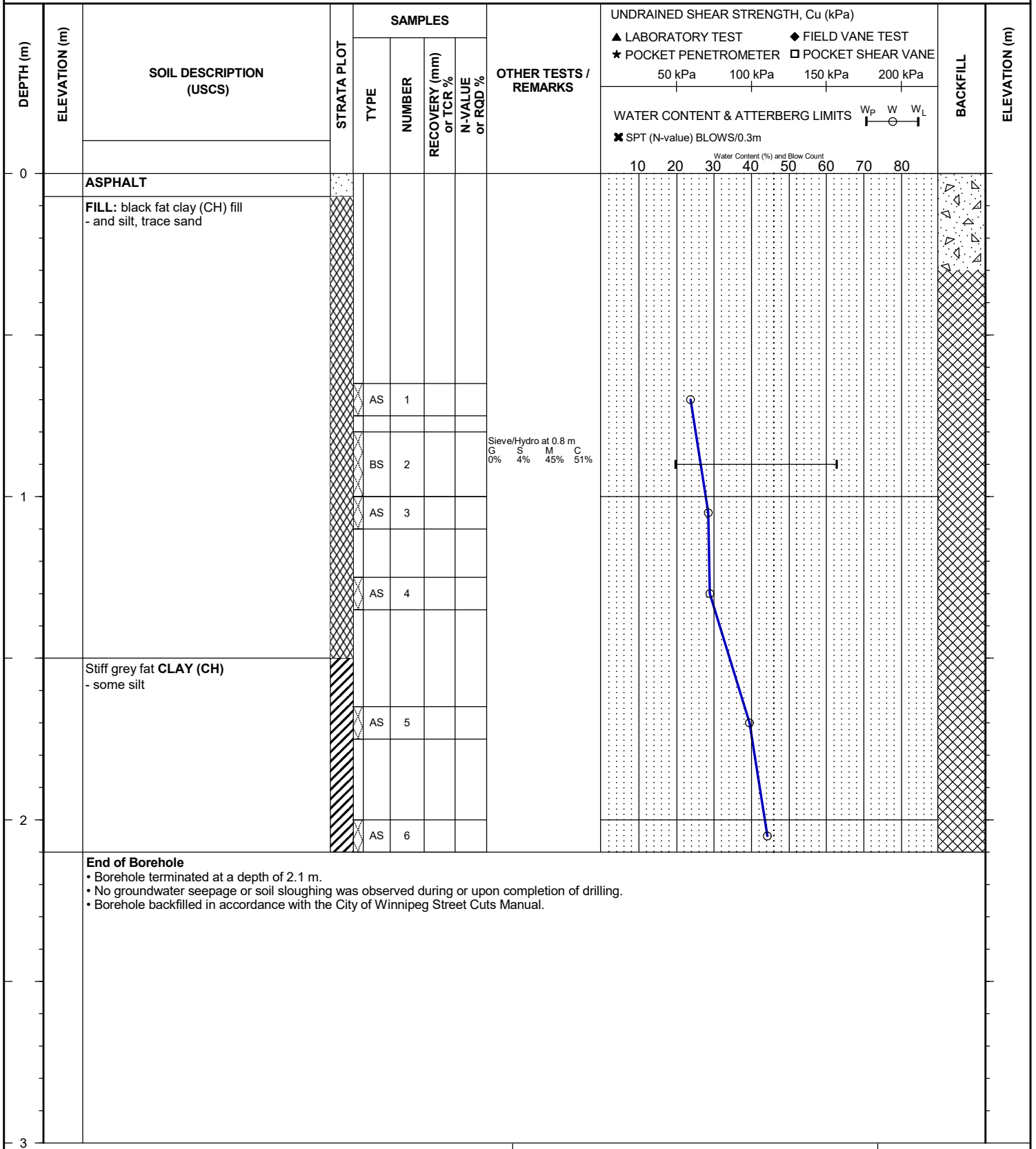
Reviewed By: GB

Completion Depth: 2.1 m

Page 1 of 1

CLIENT: Dillon Consulting Ltd.
 PROJECT: 2026 Local Street Renewal Program - 26-R-04
 LOCATION: Alley (Roslyn/Nassau N/Osborne/River)
 DATE BORED: January 14 2026

PROJECT NO.: 123317029
 BH ELEVATION: N/A
 DATUM: N/A
 WATER LEVEL: N/A



Appendix E

Laboratory Test Reports

Table 2 – Core Compressive Strength Test Results

Core No.	Street	Diameter (mm)	Length (mm)	L/D Ratio	Correction Factor	Peak Load (kN)	Compressive Strength (MPa)	
							Measured	Corrected
197	Carlaw Ave	75.30	172.62	2.292	1.0000	182.86	41.06	41.06
198		75.30	173.50	2.304	1.0000	154.26	34.64	34.64
199		75.26	161.22	2.142	1.0000	174.94	39.33	39.33
200	Alley (Kingsway/Lindsay/ Grosvenor/Renfrew)	75.00	151.71	2.023	1.0000	148.70	33.66	33.66
201		75.18	89.00	1.184	0.9142	182.55	41.12	37.59
202		75.13	110.11	1.466	0.9559	175.47	39.58	37.84
203		75.22	150.44	2.000	1.0000	190.91	42.96	42.96

ASTM D4318 - LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS (LL METHOD A - MULTIPOINT)

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Lucas Stoffel

REPORT NO. 1

DATE SAMPLED: 2026.Jan.12

DATE RECEIVED: 2026.Jan.12

DATE TESTED: 2026.Jan.29

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Brent McAughey

MATERIAL IDENTIFICATION

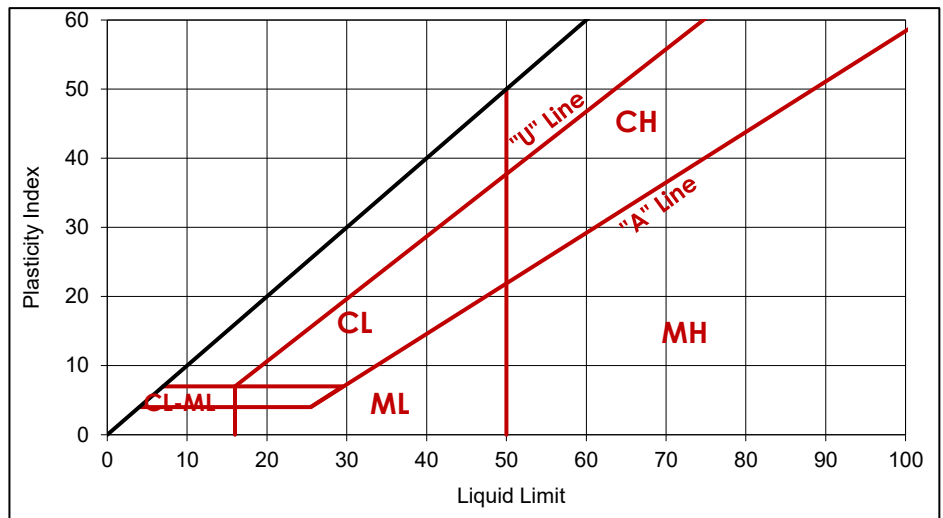
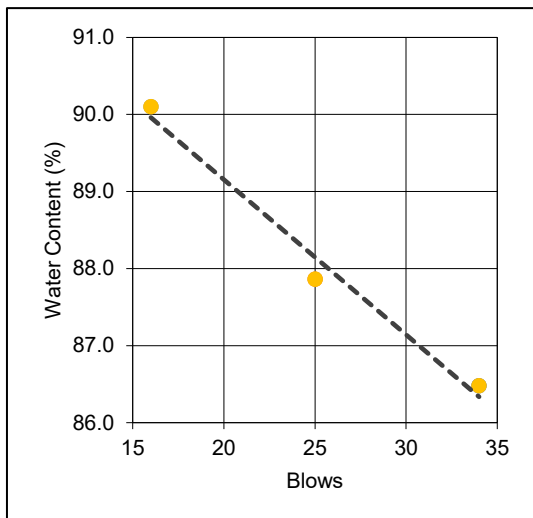
CLIENT FIELD ID BH-167, 0.8m

STANTEC SAMPLE NO. 2715

	LIQUID LIMIT		
TRIAL	1	2	3
BLOWS	34	25	16
MC (%)	86	88	90

	PLASTIC LIMIT	
TRIAL	1	2
MC (%)	26	26

LIQUID LIMIT, LL	88
PLASTIC LIMIT, PL	26
PLASTICITY INDEX, PI	62
AS REC'D MC (%)	41.4



COMMENTS

No comments

REPORT DATE 2026.Jan.30

REVIEWED BY



Guillaume Beauce, P.Eng.

Geotechnical Engineer - Materials Testing Services

ASTM D4318 - LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS (LL METHOD A - MULTIPOINT)

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Lucas Stoffel

REPORT NO. 2

DATE SAMPLED: 2026.Jan.12

DATE RECEIVED: 2026.Jan.12

DATE TESTED: 2026.Jan.27

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Brent McAughey

MATERIAL IDENTIFICATION

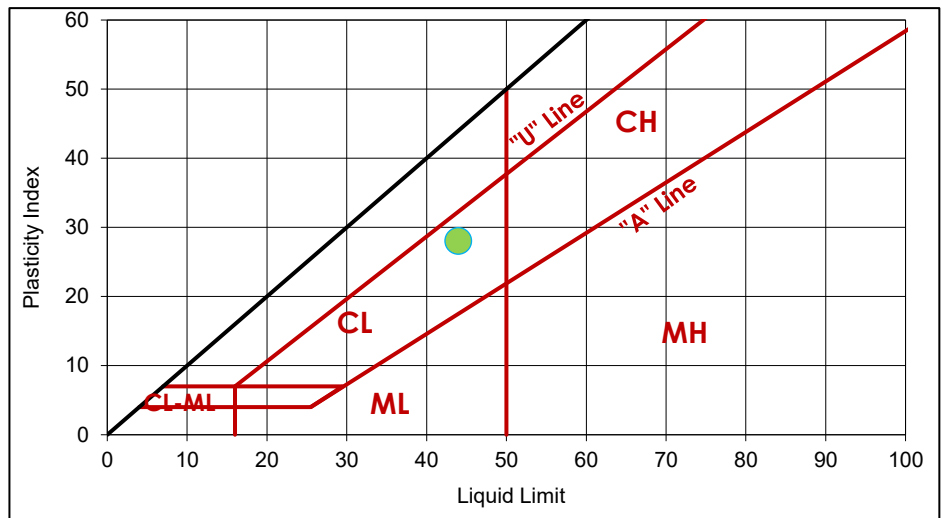
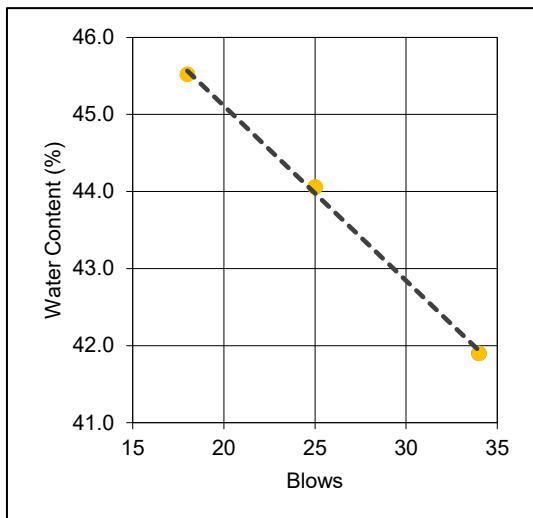
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STANTEC SAMPLE NO. 2716

	LIQUID LIMIT		
TRIAL	1	2	3
BLOWS	34	25	18
MC (%)	42	44	46

	PLASTIC LIMIT	
TRIAL	1	2
MC (%)	16	16

LIQUID LIMIT, LL	44
PLASTIC LIMIT, PL	16
PLASTICITY INDEX, PI	28
AS REC'D MC (%)	30.5



COMMENTS

No comments

REPORT DATE 2026.Jan.30

REVIEWED BY



Guillaume Beauce, P.Eng.

Geotechnical Engineer - Materials Testing Services

ASTM D4318 - LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS (LL METHOD A - MULTIPOINT)

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Lucas Stoffel

REPORT NO. 3

DATE SAMPLED: 2026.Jan.12

DATE RECEIVED: 2026.Jan.12

DATE TESTED: 2026.Jan.27

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Brent McAughey

MATERIAL IDENTIFICATION

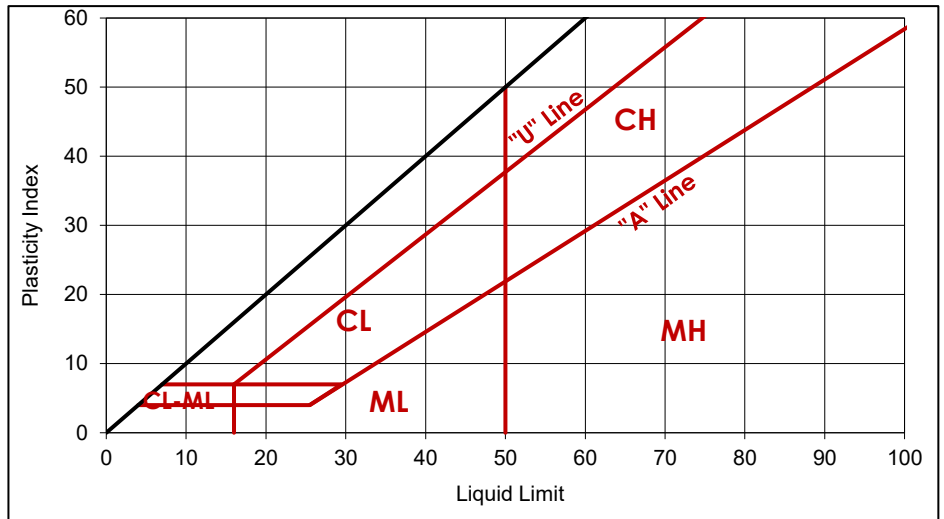
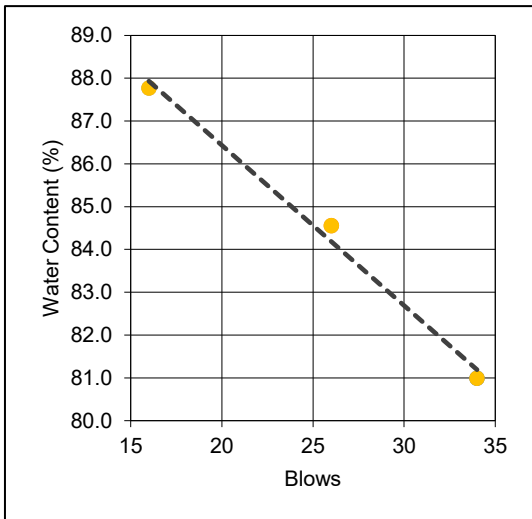
CLIENT FIELD ID BH-170, 0.8m

STANTEC SAMPLE NO. 2717

TRIAL	LIQUID LIMIT		
	1	2	3
BLOWS	34	26	16
MC (%)	81	85	88

TRIAL	PLASTIC LIMIT	
	1	2
MC (%)	24	24

LIQUID LIMIT, LL	85
PLASTIC LIMIT, PL	24
PLASTICITY INDEX, PI	61
AS REC'D MC (%)	29.0



COMMENTS

No comments

REPORT DATE 2026.Jan.30

REVIEWED BY



Guillaume Beauce, P.Eng.

Geotechnical Engineer - Materials Testing Services

ASTM D4318 - LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS (LL METHOD A - MULTIPOINT)

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Lucas Stoffel

REPORT NO. 4

DATE SAMPLED: 2026.Jan.12

DATE RECEIVED: 2026.Jan.12

DATE TESTED: 2026.Jan.27

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Brent McAughey

MATERIAL IDENTIFICATION

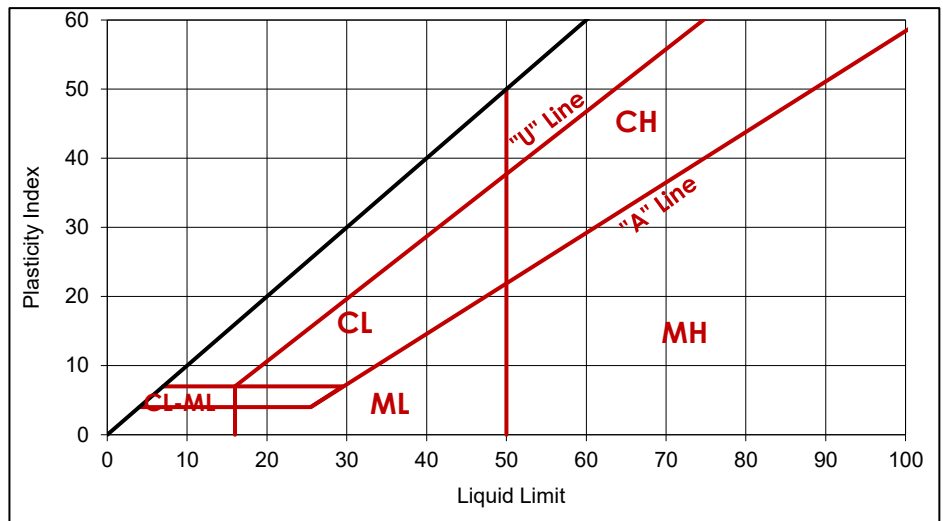
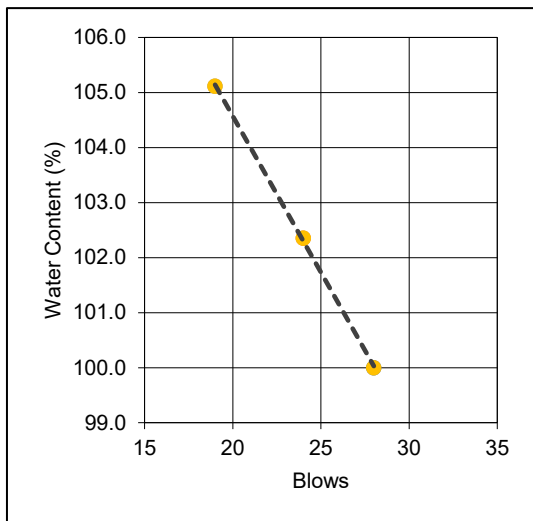
CLIENT FIELD ID BH-171, 0.8m

STANTEC SAMPLE NO. 2718

	LIQUID LIMIT		
TRIAL	1	2	3
BLOWS	28	24	19
MC (%)	100	102	105

	PLASTIC LIMIT	
TRIAL	1	2
MC (%)	29	29

LIQUID LIMIT, LL	102
PLASTIC LIMIT, PL	29
PLASTICITY INDEX, PI	73
AS REC'D MC (%)	35.2



COMMENTS

No comments

REPORT DATE 2026.Jan.30

REVIEWED BY



Guillaume Beauce, P.Eng.

Geotechnical Engineer - Materials Testing Services

ASTM D4318 - LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS (LL METHOD A - MULTIPOINT)

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Lucas Stoffel

REPORT NO. 5

DATE SAMPLED: 2026.Jan.12

DATE RECEIVED: 2026.Jan.12

DATE TESTED: 2026.Jan.26

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Brent McAughey

MATERIAL IDENTIFICATION

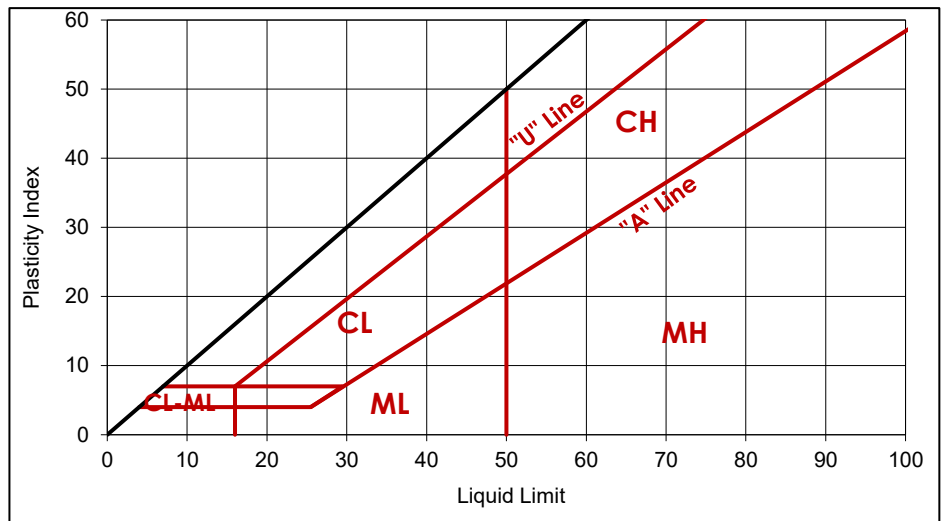
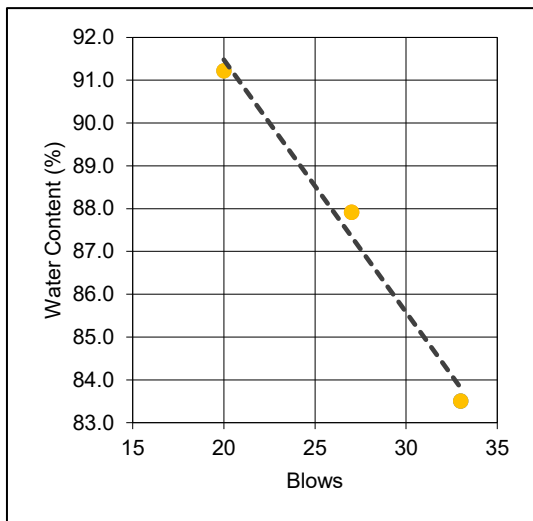
CLIENT FIELD ID BH-172, 0.8m

STANTEC SAMPLE NO. 2719

	LIQUID LIMIT		
TRIAL	1	2	3
BLOWS	33	27	20
MC (%)	84	88	91

	PLASTIC LIMIT	
TRIAL	1	2
MC (%)	26	26

LIQUID LIMIT, LL	89
PLASTIC LIMIT, PL	26
PLASTICITY INDEX, PI	63
AS REC'D MC (%)	32.9



COMMENTS

No comments

REPORT DATE 2026.Jan.30

REVIEWED BY



Guillaume Beauce, P.Eng.

Geotechnical Engineer - Materials Testing Services

ASTM D4318 - LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS (LL METHOD A - MULTIPOINT)

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Lucas Stoffel

REPORT NO. 6

DATE SAMPLED: 2026.Jan.12

DATE RECEIVED: 2026.Jan.12

DATE TESTED: 2026.Jan.22

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Brent McAughey

MATERIAL IDENTIFICATION

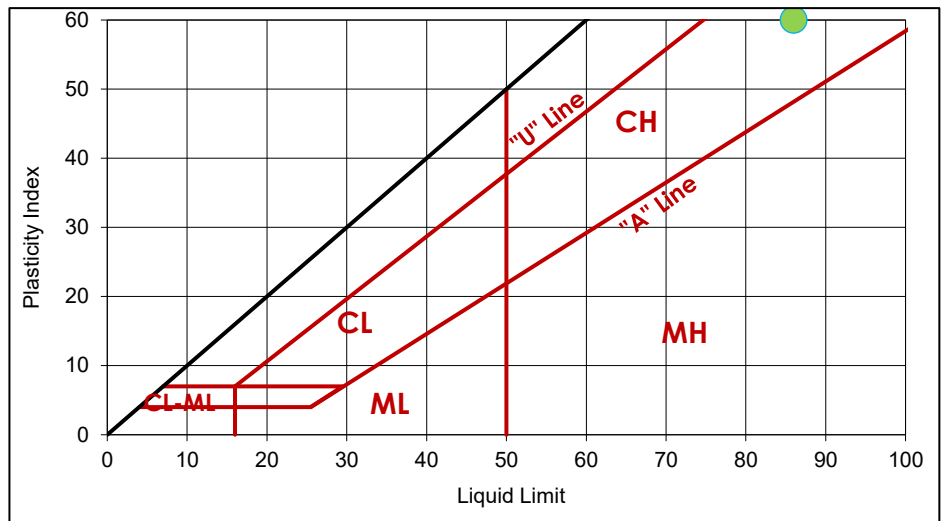
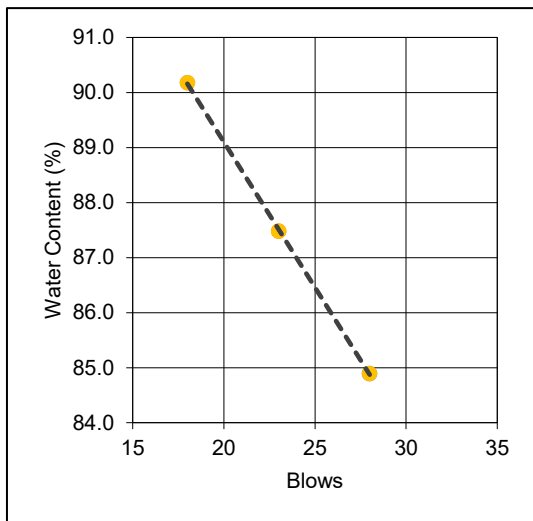
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STANTEC SAMPLE NO. 2720

	LIQUID LIMIT		
TRIAL	1	2	3
BLOWS	28	23	18
MC (%)	85	87	90

	PLASTIC LIMIT	
TRIAL	1	2
MC (%)	26	26

LIQUID LIMIT, LL	86
PLASTIC LIMIT, PL	26
PLASTICITY INDEX, PI	60
AS REC'D MC (%)	29.3



COMMENTS

No comments

REPORT DATE 2026.Jan.30

REVIEWED BY



Guillaume Beauce, P.Eng.

Geotechnical Engineer - Materials Testing Services

ASTM D4318 - LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS (LL METHOD A - MULTIPOINT)

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Lucas Stoffel

REPORT NO. 7

DATE SAMPLED: 2026.Jan.13

DATE RECEIVED: 2026.Jan.13

DATE TESTED: 2026.Jan.21

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Brent McAughey

MATERIAL IDENTIFICATION

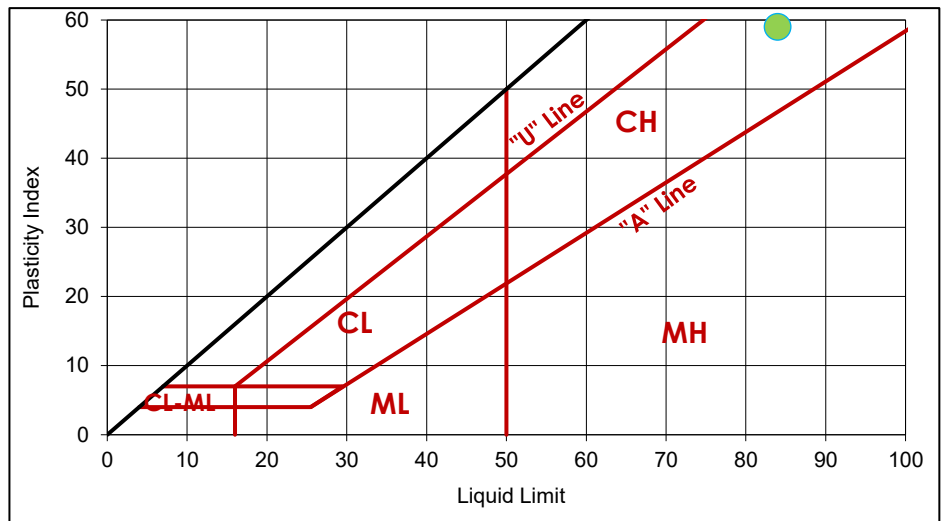
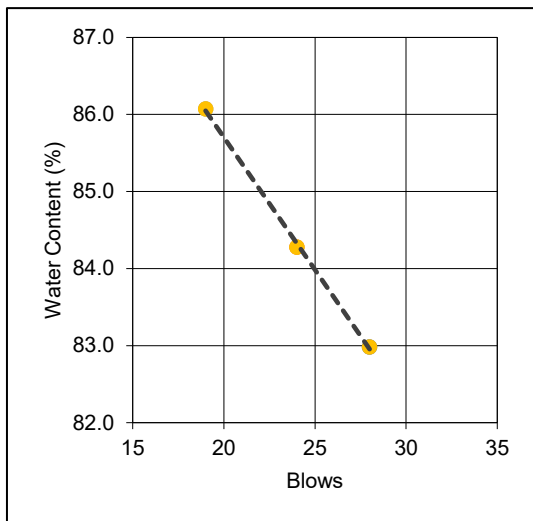
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STANTEC SAMPLE NO. 2721

	LIQUID LIMIT		
TRIAL	1	2	3
BLOWS	28	24	19
MC (%)	83	84	86

	PLASTIC LIMIT	
TRIAL	1	2
MC (%)	25	25

LIQUID LIMIT, LL	84
PLASTIC LIMIT, PL	25
PLASTICITY INDEX, PI	59
AS REC'D MC (%)	30.3



COMMENTS

No comments

REPORT DATE 2026.Jan.30

REVIEWED BY



Guillaume Beauce, P.Eng.

Geotechnical Engineer - Materials Testing Services

ASTM D4318 - LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS (LL METHOD A - MULTIPOINT)

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Lucas Stoffel

REPORT NO. 8

DATE SAMPLED: 2026.Jan.13

DATE RECEIVED: 2026.Jan.13

DATE TESTED: 2026.Jan.28

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Brent McAughey

MATERIAL IDENTIFICATION

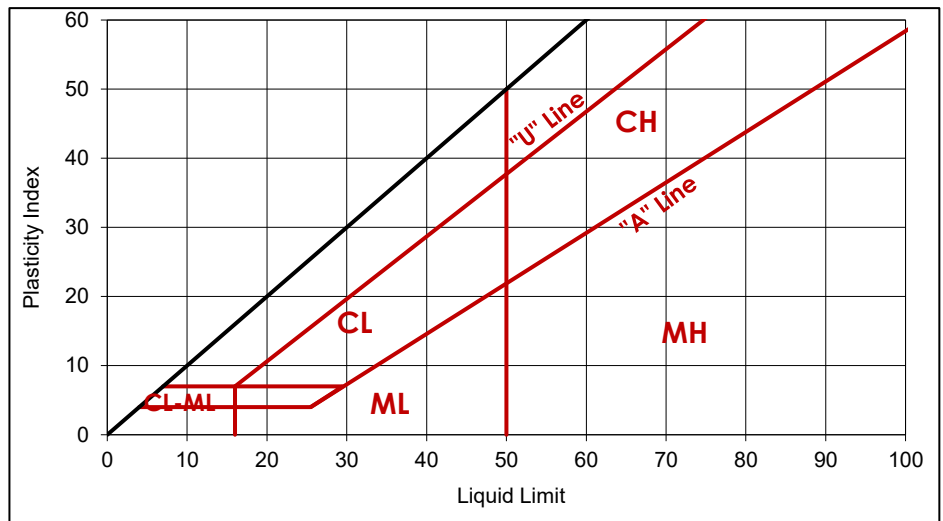
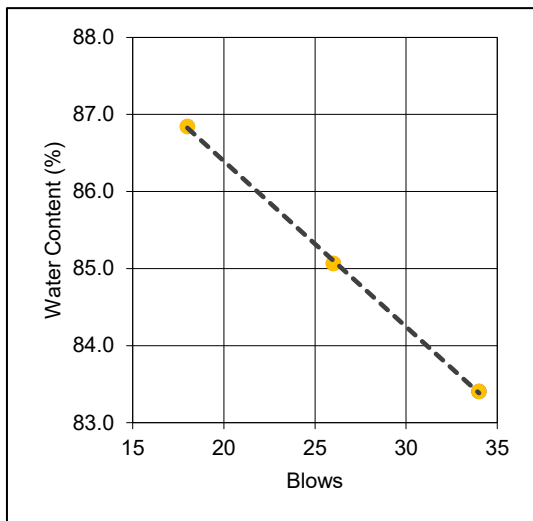
CLIENT FIELD ID BH-176, 0.8m

STANTEC SAMPLE NO. 2722

TRIAL	LIQUID LIMIT		
	1	2	3
BLOWS	34	26	18
MC (%)	83	85	87

TRIAL	PLASTIC LIMIT	
	1	2
MC (%)	20	20

LIQUID LIMIT, LL	85
PLASTIC LIMIT, PL	20
PLASTICITY INDEX, PI	65
AS REC'D MC (%)	35.0



COMMENTS

No comments

REPORT DATE 2026.Jan.30

REVIEWED BY



Guillaume Beauce, P.Eng.

Geotechnical Engineer - Materials Testing Services

ASTM D4318 - LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS (LL METHOD A - MULTIPOINT)

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Lucas Stoffel

REPORT NO. 9

DATE SAMPLED: 2026.Jan.13

DATE RECEIVED: 2026.Jan.13

DATE TESTED: 2026.Jan.23

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Brent McAughey

MATERIAL IDENTIFICATION

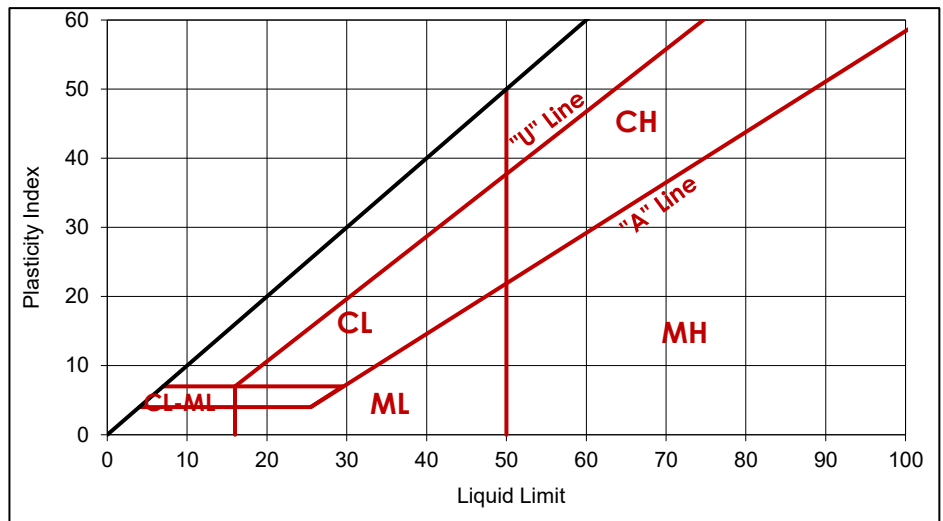
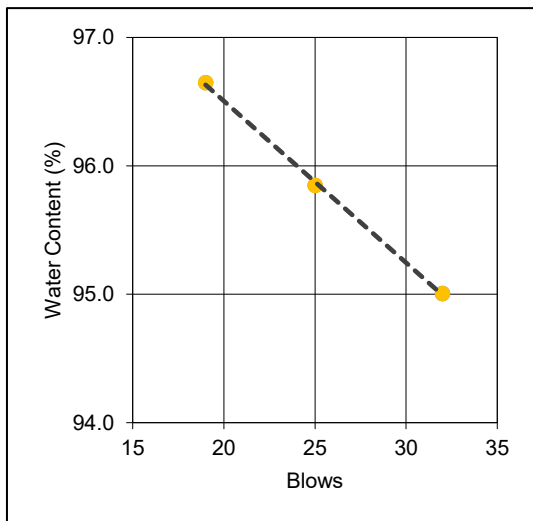
CLIENT FIELD ID BH-178, 0.8m

STANTEC SAMPLE NO. 2723

	LIQUID LIMIT		
TRIAL	1	2	3
BLOWS	32	25	19
MC (%)	95	96	97

	PLASTIC LIMIT	
TRIAL	1	2
MC (%)	25	25

LIQUID LIMIT, LL	96
PLASTIC LIMIT, PL	25
PLASTICITY INDEX, PI	71
AS REC'D MC (%)	37.3



COMMENTS

No coments

REPORT DATE 2026.Jan.30

REVIEWED BY



Guillaume Beauce, P.Eng.

Geotechnical Engineer - Materials Testing Services

ASTM D4318 - LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS (LL METHOD A - MULTIPOINT)

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Lucas Stoffel

REPORT NO. 10

DATE SAMPLED: 2026.Jan.13

DATE RECEIVED: 2026.Jan.13

DATE TESTED: 2026.Jan.27

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Brent McAughey

MATERIAL IDENTIFICATION

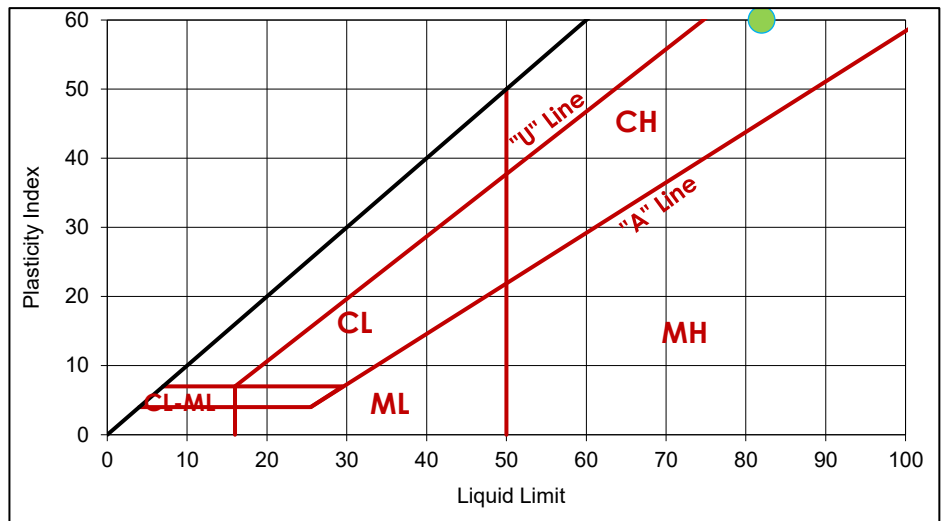
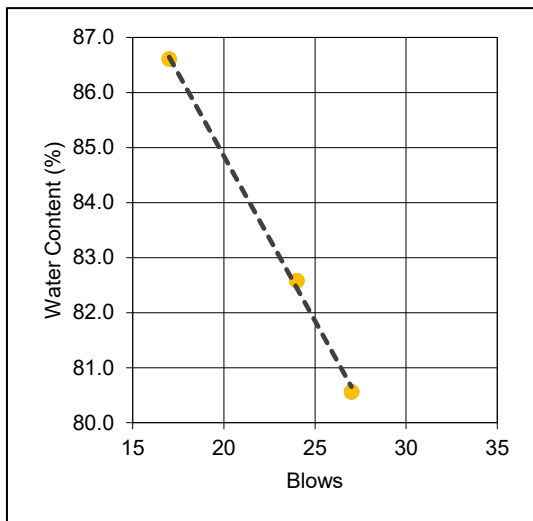
CLIENT FIELD ID BH-179, 0.8m

STANTEC SAMPLE NO. 2724

	LIQUID LIMIT		
TRIAL	1	2	3
BLOWS	27	24	17
MC (%)	81	83	87

	PLASTIC LIMIT	
TRIAL	1	2
MC (%)	22	22

LIQUID LIMIT, LL	82
PLASTIC LIMIT, PL	22
PLASTICITY INDEX, PI	60
AS REC'D MC (%)	34.2



COMMENTS

No comments

REPORT DATE 2026.Jan.30

REVIEWED BY



Guillaume Beauce, P.Eng.

Geotechnical Engineer - Materials Testing Services

ASTM D4318 - LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS (LL METHOD A - MULTIPOINT)

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Lucas Stoffel

REPORT NO. 11

DATE SAMPLED: 2026.Jan.13

DATE RECEIVED: 2026.Jan.13

DATE TESTED: 2026.Jan.26

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Brent McAughey

MATERIAL IDENTIFICATION

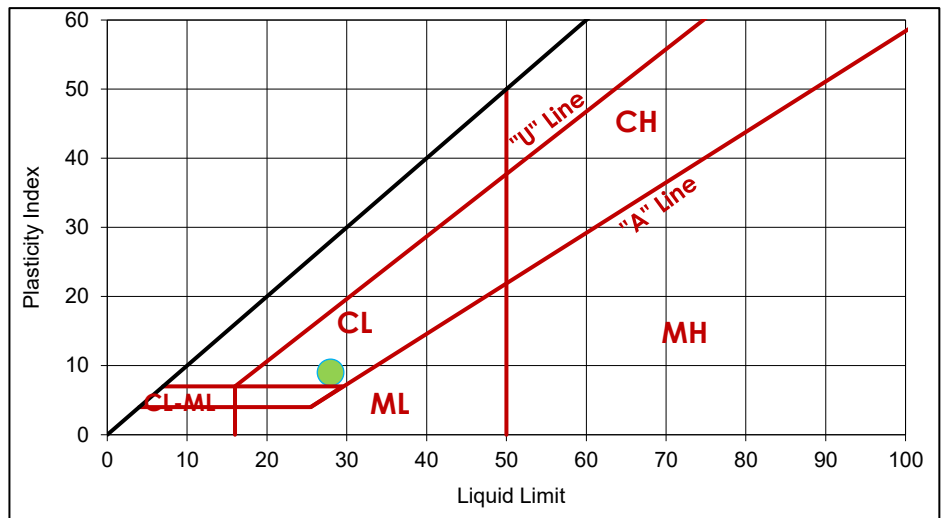
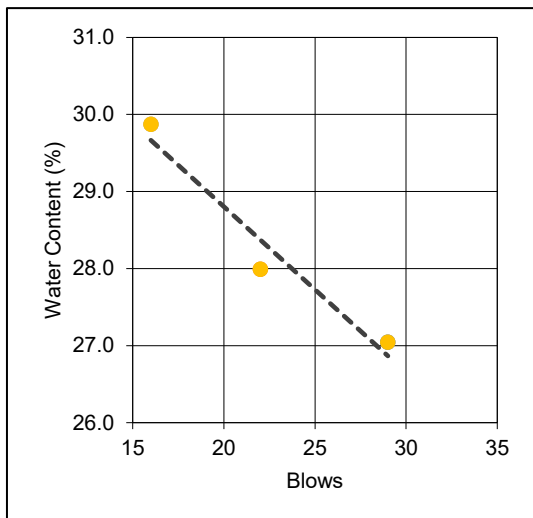
CLIENT FIELD ID BH-181, 0.8m

STANTEC SAMPLE NO. 2725

	LIQUID LIMIT		
TRIAL	1	2	3
BLOWS	29	22	16
MC (%)	27	28	30

	PLASTIC LIMIT	
TRIAL	1	2
MC (%)	19	18

LIQUID LIMIT, LL	28
PLASTIC LIMIT, PL	19
PLASTICITY INDEX, PI	9
AS REC'D MC (%)	20.8



COMMENTS

No comments

REPORT DATE 2026.Jan.30

REVIEWED BY



Guillaume Beauce, P.Eng.

Geotechnical Engineer - Materials Testing Services

ASTM D4318 - LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS (LL METHOD A - MULTIPOINT)

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Lucas Stoffel

REPORT NO. 12

DATE SAMPLED: 2026.Jan.13

DATE RECEIVED: 2026.Jan.13

DATE TESTED: 2026.Jan.23

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Brent McAughey

MATERIAL IDENTIFICATION

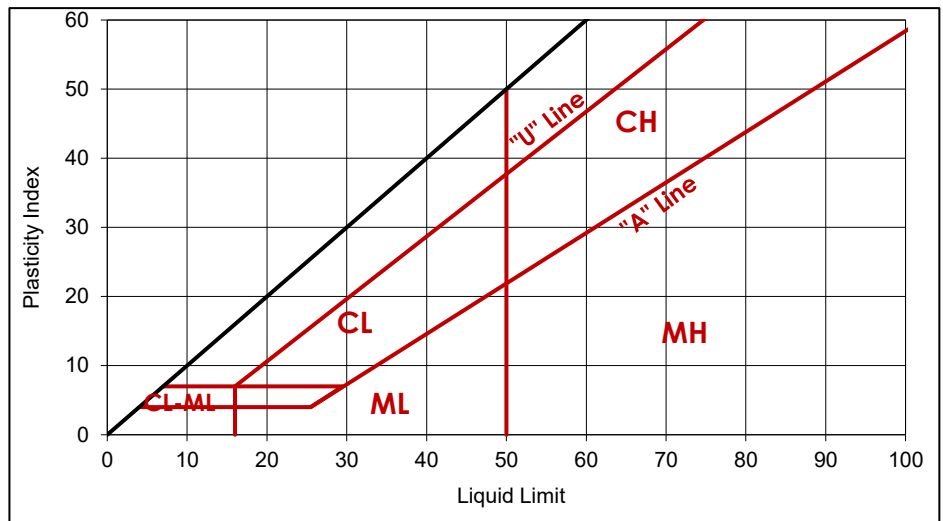
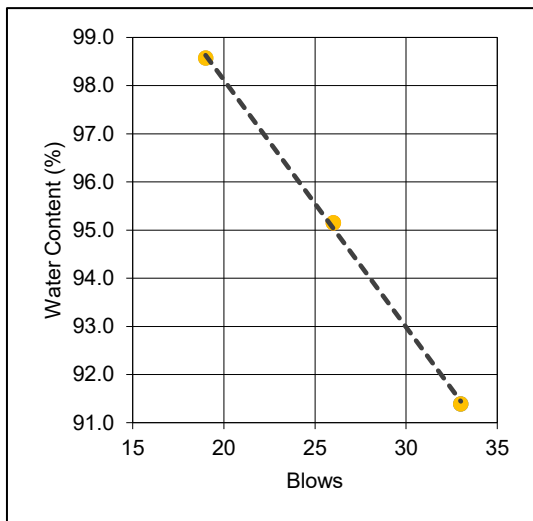
CLIENT FIELD ID BH-182, 0.8m

STANTEC SAMPLE NO. 2726

	LIQUID LIMIT		
TRIAL	1	2	3
BLOWS	33	26	19
MC (%)	91	95	99

	PLASTIC LIMIT	
TRIAL	1	2
MC (%)	27	27

LIQUID LIMIT, LL	96
PLASTIC LIMIT, PL	27
PLASTICITY INDEX, PI	69
AS REC'D MC (%)	37.4



COMMENTS

No comments

REPORT DATE 2026.Jan.30

REVIEWED BY



Guillaume Beauce, P.Eng.

Geotechnical Engineer - Materials Testing Services

ASTM D4318 - LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS (LL METHOD A - MULTIPOINT)

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Lucas Stoffel

REPORT NO. 13

DATE SAMPLED: 2026.Jan.14

DATE RECEIVED: 2026.Jan.14

DATE TESTED: 2026.Jan.27

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Brent McAughey

MATERIAL IDENTIFICATION

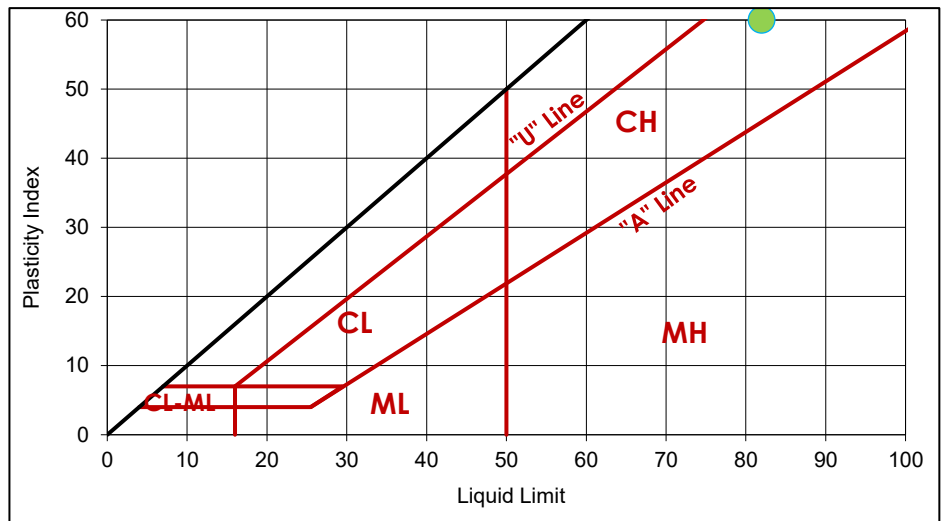
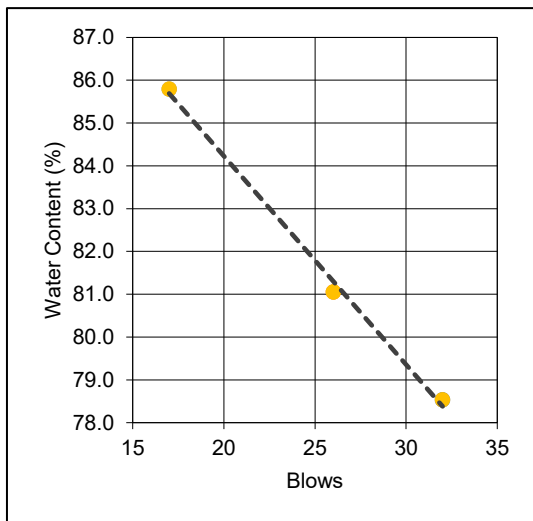
CLIENT FIELD ID BH-183, 0.7m

STANTEC SAMPLE NO. 2727

	LIQUID LIMIT		
TRIAL	1	2	3
BLOWS	32	26	17
MC (%)	79	81	86

	PLASTIC LIMIT	
TRIAL	1	2
MC (%)	22	23

LIQUID LIMIT, LL	82
PLASTIC LIMIT, PL	22
PLASTICITY INDEX, PI	60
AS REC'D MC (%)	22.6



COMMENTS

No comments

REPORT DATE 2026.Jan.30

REVIEWED BY



Guillaume Beauce, P.Eng.

Geotechnical Engineer - Materials Testing Services

ASTM D4318 - LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS (LL METHOD A - MULTIPOINT)

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Lucas Stoffel

REPORT NO. 14

DATE SAMPLED: 2026.Jan.14

DATE RECEIVED: 2026.Jan.14

DATE TESTED: 2026.Jan.27

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Brent McAughey

MATERIAL IDENTIFICATION

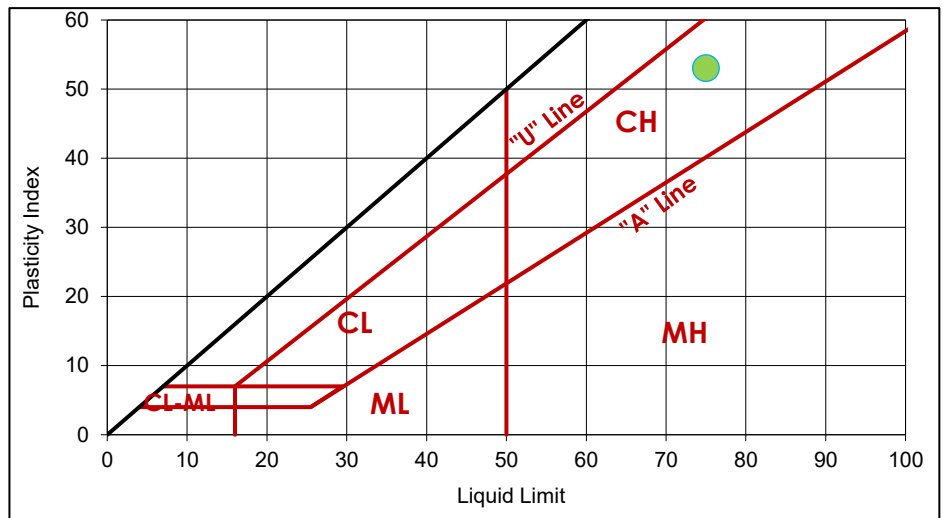
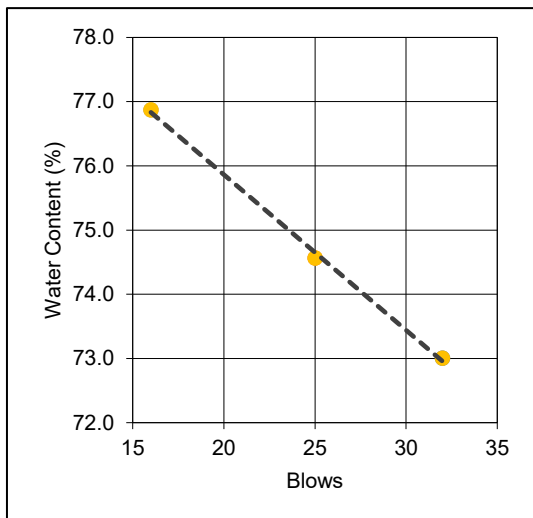
CLIENT FIELD ID BH-185, 0.7m

STANTEC SAMPLE NO. 2728

	LIQUID LIMIT		
TRIAL	1	2	3
BLOWS	32	25	16
MC (%)	73	75	77

	PLASTIC LIMIT	
TRIAL	1	2
MC (%)	21	22

LIQUID LIMIT, LL	75
PLASTIC LIMIT, PL	22
PLASTICITY INDEX, PI	53
AS REC'D MC (%)	32.4



COMMENTS

No comments

REPORT DATE 2026.Jan.30

REVIEWED BY



Guillaume Beauce, P.Eng.

Geotechnical Engineer - Materials Testing Services

ASTM D4318 - LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS (LL METHOD A - MULTIPOINT)

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Lucas Stoffel

REPORT NO. 15

DATE SAMPLED: 2026.Jan.14

DATE RECEIVED: 2026.Jan.14

DATE TESTED: 2026.Jan.27

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Brent McAughey

MATERIAL IDENTIFICATION

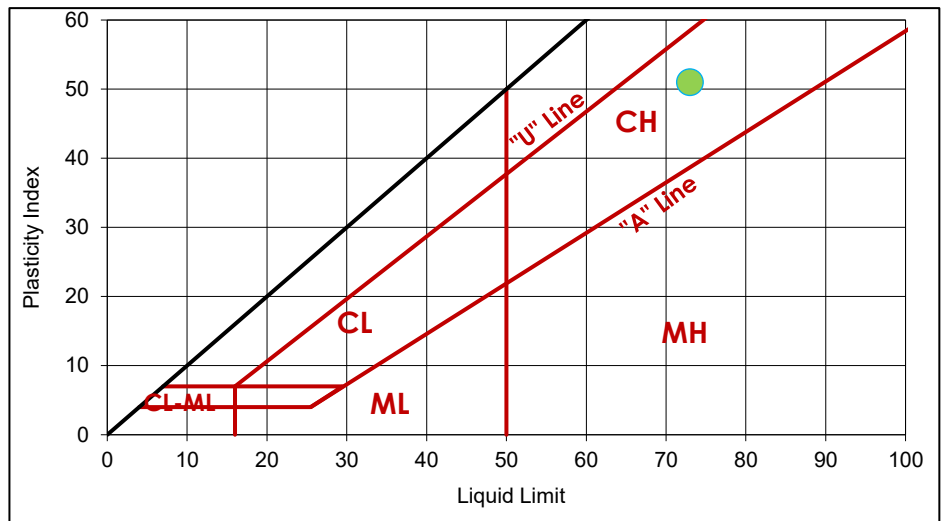
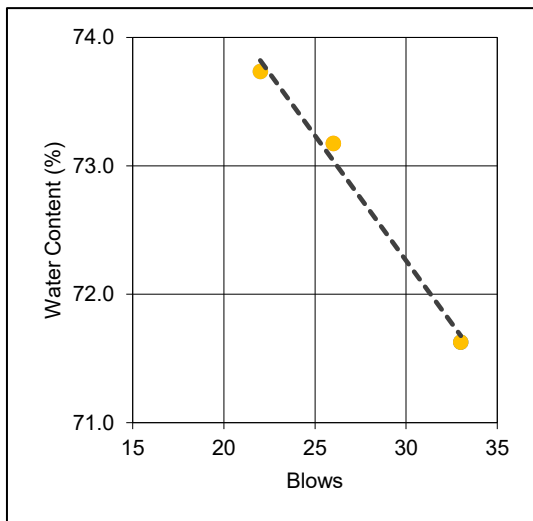
CLIENT FIELD ID BH-186, 0.8m

STANTEC SAMPLE NO. 2729

	LIQUID LIMIT		
TRIAL	1	2	3
BLOWS	33	26	22
MC (%)	72	73	74

	PLASTIC LIMIT	
TRIAL	1	2
MC (%)	22	22

LIQUID LIMIT, LL	73
PLASTIC LIMIT, PL	22
PLASTICITY INDEX, PI	51
AS REC'D MC (%)	32.7



COMMENTS

No comments

REPORT DATE 2026.Jan.30

REVIEWED BY



Guillaume Beauce, P.Eng.

Geotechnical Engineer - Materials Testing Services

ASTM D4318 - LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS (LL METHOD A - MULTIPOINT)

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Lucas Stoffel

REPORT NO. 16

DATE SAMPLED: 2026.Jan.14

DATE RECEIVED: 2026.Jan.14

DATE TESTED: 2026.Jan.27

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Brent McAughey

MATERIAL IDENTIFICATION

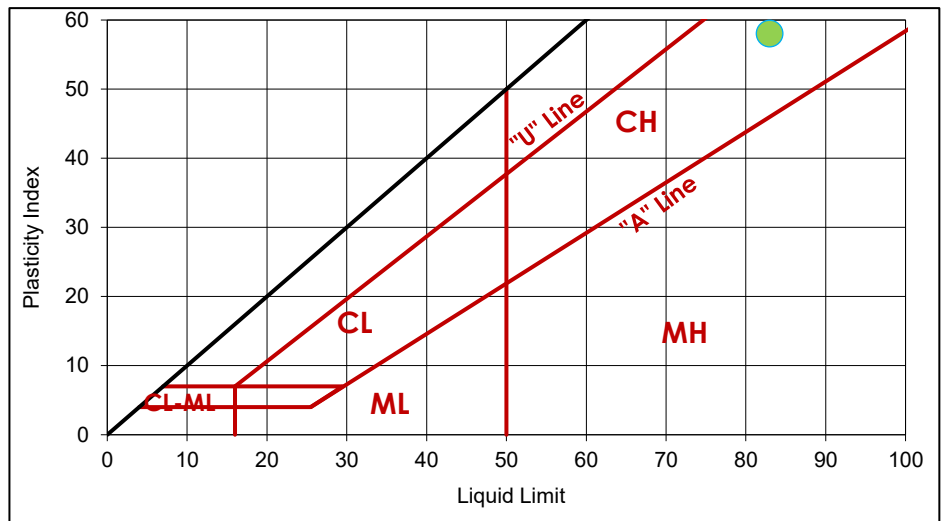
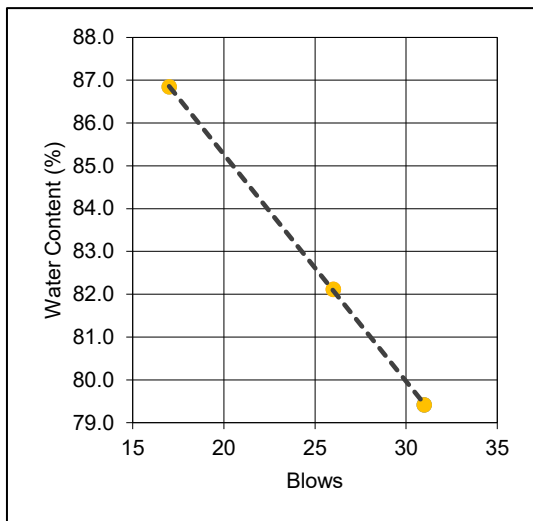
CLIENT FIELD ID BH-187, 0.8m

STANTEC SAMPLE NO. 2730

TRIAL	LIQUID LIMIT		
	1	2	3
BLOWS	31	26	17
MC (%)	79	82	87

TRIAL	PLASTIC LIMIT	
	1	2
MC (%)	25	26

LIQUID LIMIT, LL	83
PLASTIC LIMIT, PL	25
PLASTICITY INDEX, PI	58
AS REC'D MC (%)	38.9



COMMENTS

No comments

REPORT DATE 2026.Jan.30

REVIEWED BY



Guillaume Beauce, P.Eng.

Geotechnical Engineer - Materials Testing Services

ASTM D4318 - LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS (LL METHOD A - MULTIPOINT)

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Lucas Stoffel

REPORT NO. 17

DATE SAMPLED: 2026.Jan.14

DATE RECEIVED: 2026.Jan.14

DATE TESTED: 2026.Jan.29

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Brent McAughey

MATERIAL IDENTIFICATION

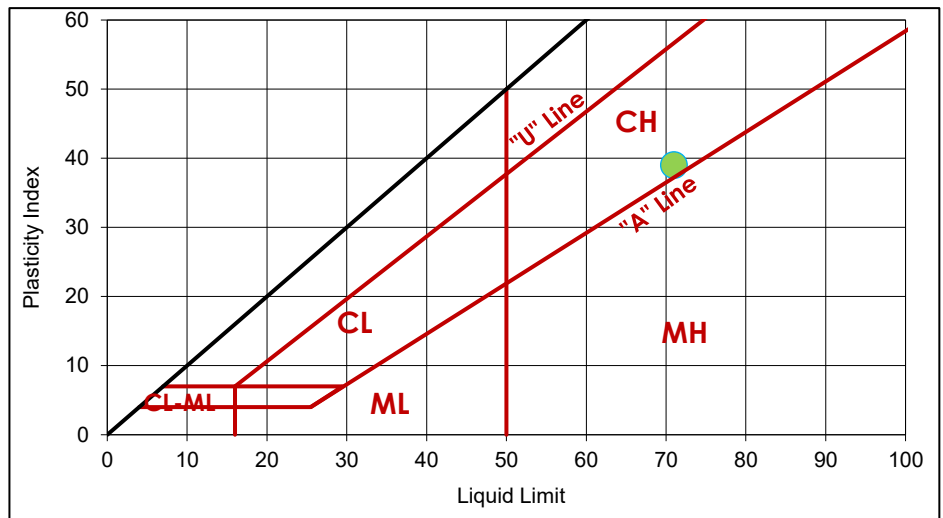
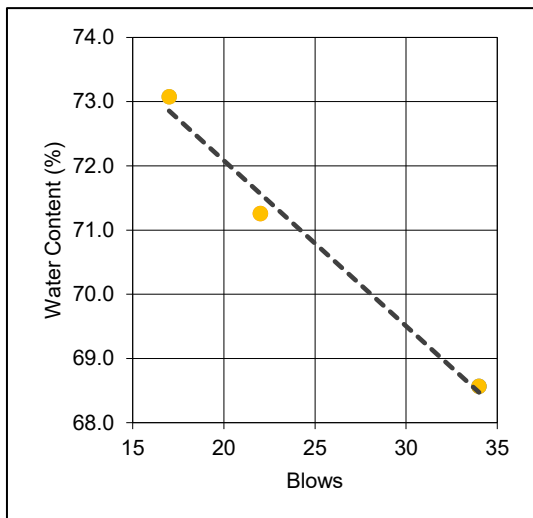
CLIENT FIELD ID BH-188, 0.8m

STANTEC SAMPLE NO. 2731

	LIQUID LIMIT		
TRIAL	1	2	3
BLOWS	34	22	17
MC (%)	69	71	73

	PLASTIC LIMIT	
TRIAL	1	2
MC (%)	32	32

LIQUID LIMIT, LL	71
PLASTIC LIMIT, PL	32
PLASTICITY INDEX, PI	39
AS REC'D MC (%)	43.3



COMMENTS

No coments

REPORT DATE 2026.Jan.30

REVIEWED BY



Guillaume Beauce, P.Eng.

Geotechnical Engineer - Materials Testing Services

ASTM D4318 - LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS (LL METHOD A - MULTIPOINT)

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Lucas Stoffel

REPORT NO. 18

DATE SAMPLED: 2026.Jan.15

DATE RECEIVED: 2026.Jan.15

DATE TESTED: 2026.Jan.28

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Brent McAughey

MATERIAL IDENTIFICATION

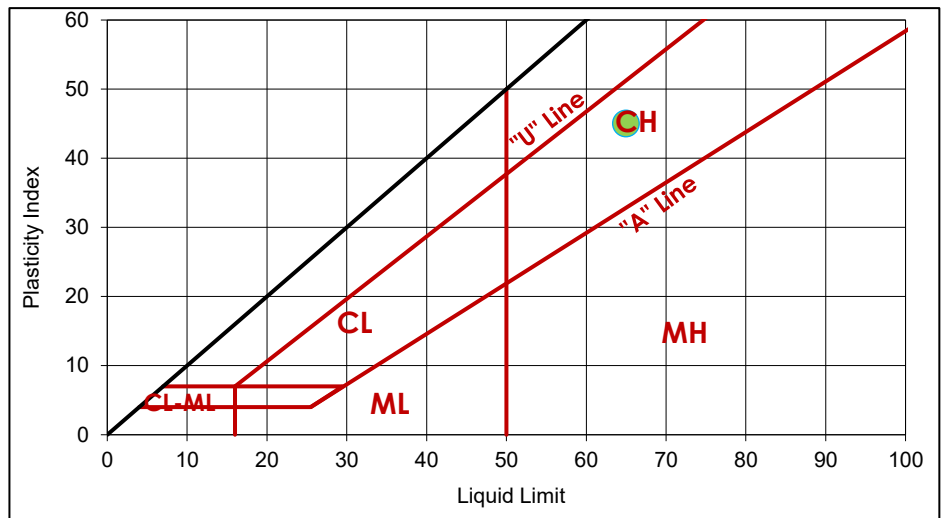
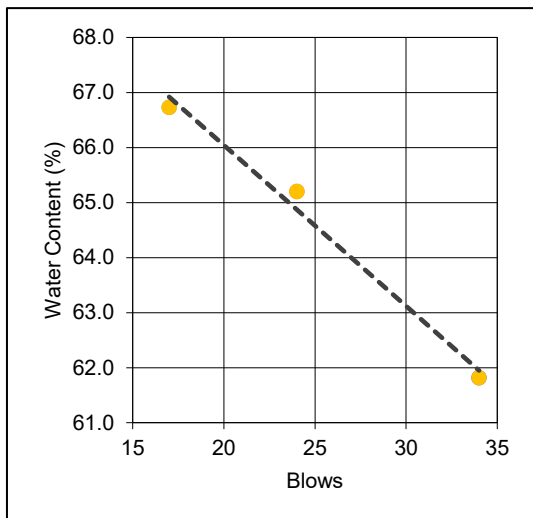
CLIENT FIELD ID BH-189, 0.8m

STANTEC SAMPLE NO. 2732

	LIQUID LIMIT		
TRIAL	1	2	3
BLOWS	34	24	17
MC (%)	62	65	67

	PLASTIC LIMIT	
TRIAL	1	2
MC (%)	20	19

LIQUID LIMIT, LL	65
PLASTIC LIMIT, PL	20
PLASTICITY INDEX, PI	45
AS REC'D MC (%)	35.1



COMMENTS

No comments

REPORT DATE 2026.Jan.30

REVIEWED BY



Guillaume Beauce, P.Eng.

Geotechnical Engineer - Materials Testing Services

ASTM D4318 - LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS (LL METHOD A - MULTIPOINT)

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Lucas Stoffel

REPORT NO. 19

DATE SAMPLED: 2026.Jan.14

DATE RECEIVED: 2026.Jan.14

DATE TESTED: 2026.Jan.28

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Brent McAughey

MATERIAL IDENTIFICATION

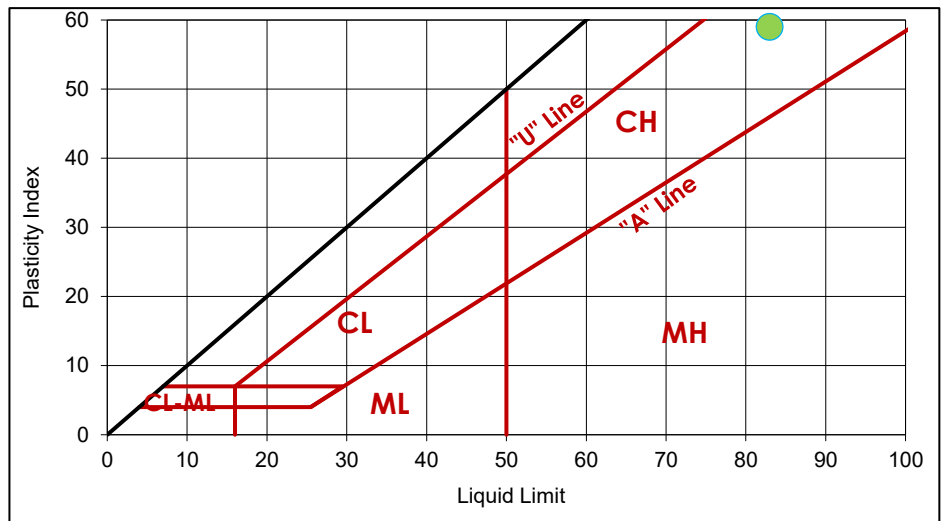
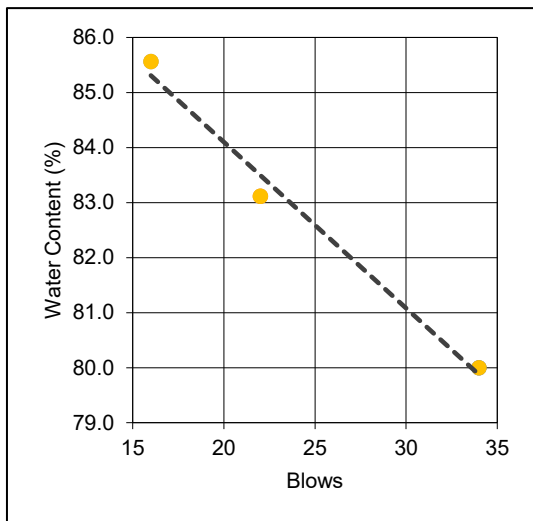
CLIENT FIELD ID BH-191, 0.8m

STANTEC SAMPLE NO. 2733

	LIQUID LIMIT		
TRIAL	1	2	3
BLOWS	34	22	16
MC (%)	80	83	86

	PLASTIC LIMIT	
TRIAL	1	2
MC (%)	24	24

LIQUID LIMIT, LL	83
PLASTIC LIMIT, PL	24
PLASTICITY INDEX, PI	59
AS REC'D MC (%)	31.2



COMMENTS

No comments

REPORT DATE 2026.Jan.30

REVIEWED BY



Guillaume Beauce, P.Eng.

Geotechnical Engineer - Materials Testing Services

ASTM D4318 - LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS (LL METHOD A - MULTIPOINT)

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Lucas Stoffel

REPORT NO. 20

DATE SAMPLED: 2026.Jan.15

DATE RECEIVED: 2026.Jan.15

DATE TESTED: 2026.Jan.27

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Brent McAughey

MATERIAL IDENTIFICATION

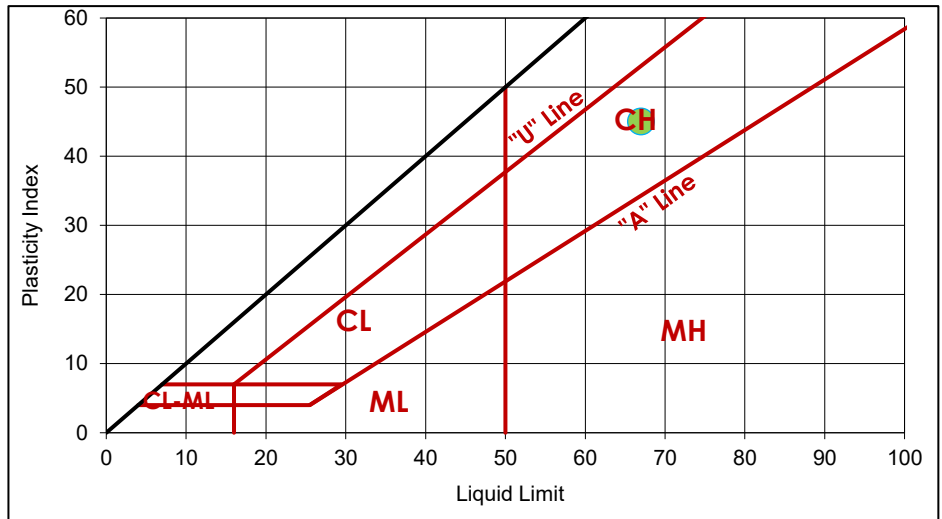
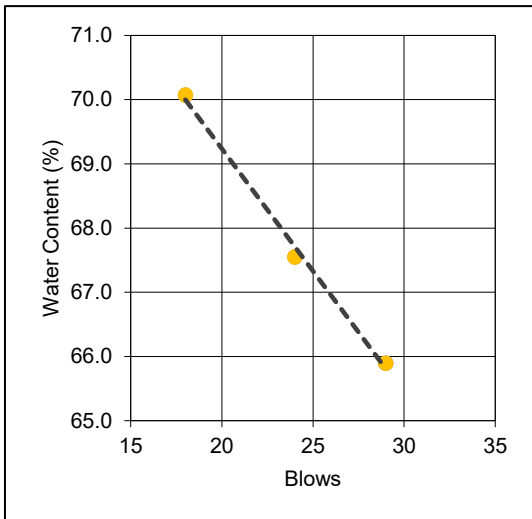
CLIENT FIELD ID BH-192, 0.7m

STANTEC SAMPLE NO. 2734

	LIQUID LIMIT		
TRIAL	1	2	3
BLOWS	29	24	18
MC (%)	66	68	70

	PLASTIC LIMIT	
TRIAL	1	2
MC (%)	22	22

LIQUID LIMIT, LL	67
PLASTIC LIMIT, PL	22
PLASTICITY INDEX, PI	45
AS REC'D MC (%)	31.1



COMMENTS

No coments

REPORT DATE 2026.Jan.30

REVIEWED BY



Guillaume Beauce, P.Eng.

Geotechnical Engineer - Materials Testing Services

ASTM D4318 - LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS (LL METHOD A - MULTIPOINT)

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Lucas Stoffel

REPORT NO. 21

DATE SAMPLED: 2026.Jan.15

DATE RECEIVED: 2026.Jan.15

DATE TESTED: 2026.Jan.27

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Brent McAughey

MATERIAL IDENTIFICATION

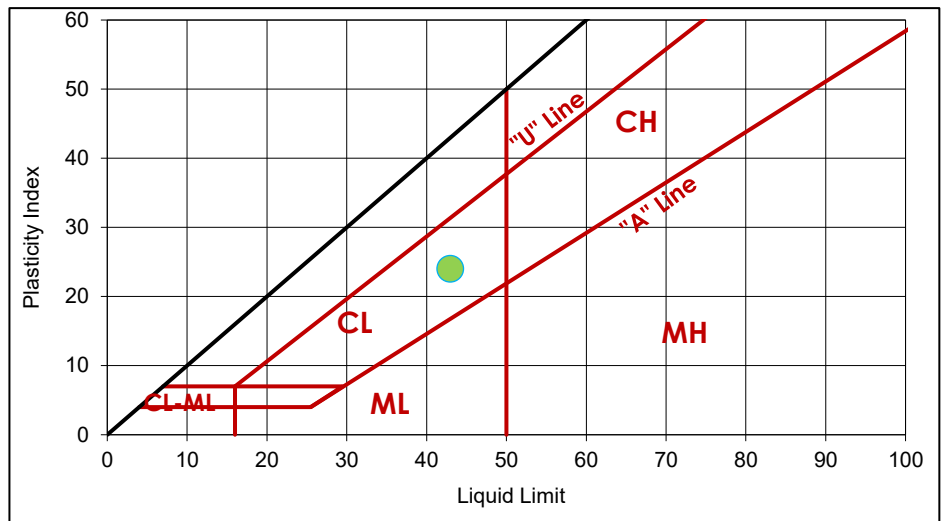
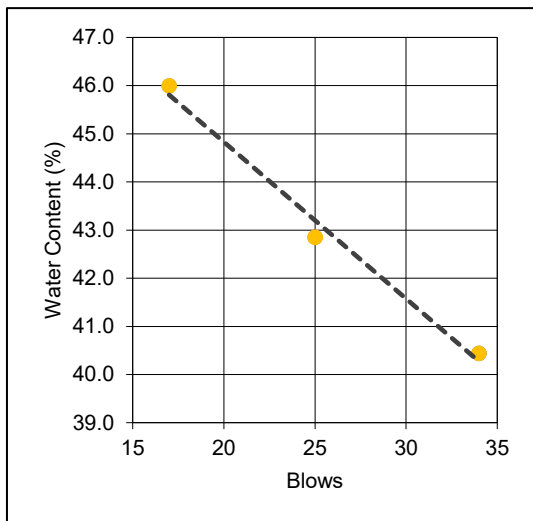
CLIENT FIELD ID BH-193, 0.8m

STANTEC SAMPLE NO. 2735

TRIAL	LIQUID LIMIT		
	1	2	3
BLOWS	34	25	17
MC (%)	40	43	46

TRIAL	PLASTIC LIMIT	
	1	2
MC (%)	19	18

LIQUID LIMIT, LL	43
PLASTIC LIMIT, PL	19
PLASTICITY INDEX, PI	24
AS REC'D MC (%)	31.1



COMMENTS

No comments

REPORT DATE 2026.Jan.30

REVIEWED BY



Guillaume Beauce, P.Eng.

Geotechnical Engineer - Materials Testing Services

ASTM D4318 - LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS (LL METHOD A - MULTIPOINT)

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Lucas Stoffel

REPORT NO. 22

DATE SAMPLED: 2026.Jan.15

DATE RECEIVED: 2026.Jan.15

DATE TESTED: 2026.Jan.27

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Brent McAughey

MATERIAL IDENTIFICATION

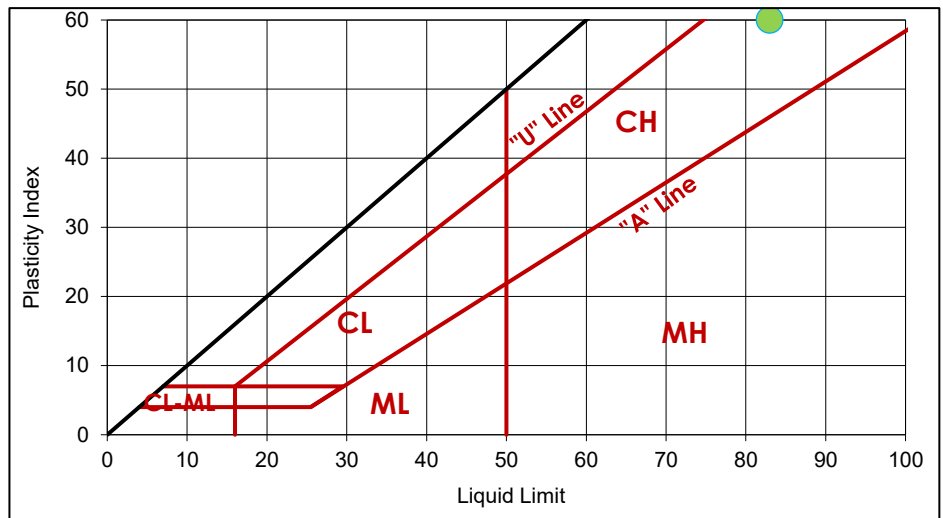
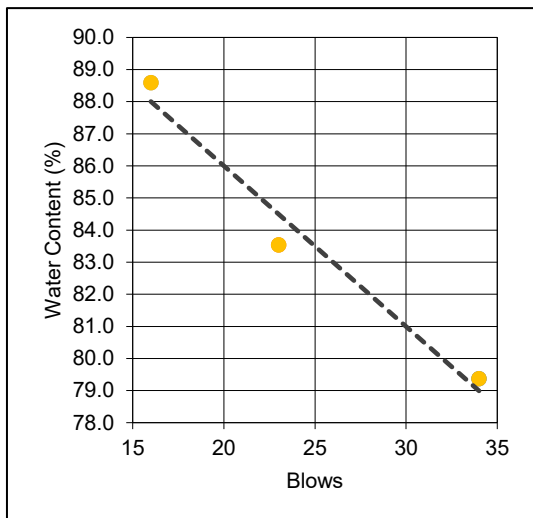
CLIENT FIELD ID BH-194, 0.7m

STANTEC SAMPLE NO. 2736

	LIQUID LIMIT		
TRIAL	1	2	3
BLOWS	34	23	16
MC (%)	79	84	89

	PLASTIC LIMIT	
TRIAL	1	2
MC (%)	23	23

LIQUID LIMIT, LL	83
PLASTIC LIMIT, PL	23
PLASTICITY INDEX, PI	60
AS REC'D MC (%)	33.1



COMMENTS

No comments

REPORT DATE 2026.Jan.30

REVIEWED BY



Guillaume Beauce, P.Eng.

Geotechnical Engineer - Materials Testing Services

ASTM D4318 - LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS (LL METHOD A - MULTIPOINT)

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Lucas Stoffel

REPORT NO. 23

DATE SAMPLED: 2026.Jan.14

DATE RECEIVED: 2026.Jan.14

DATE TESTED: 2026.Jan.26

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Brent McAughey

MATERIAL IDENTIFICATION

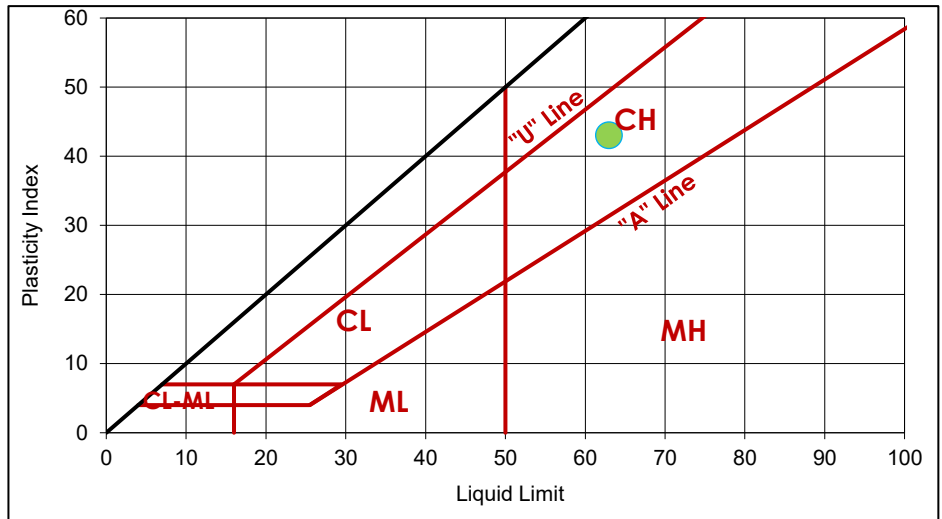
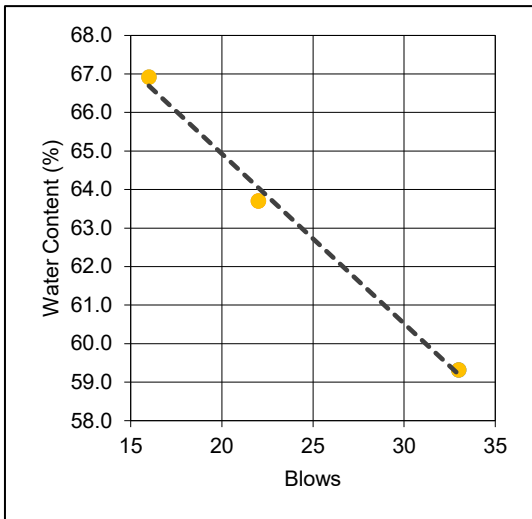
CLIENT FIELD ID BH-196, 0.7m

STANTEC SAMPLE NO. 2737

	LIQUID LIMIT		
TRIAL	1	2	3
BLOWS	33	22	16
MC (%)	59	64	67

	PLASTIC LIMIT	
TRIAL	1	2
MC (%)	20	20

LIQUID LIMIT, LL	63
PLASTIC LIMIT, PL	20
PLASTICITY INDEX, PI	43
AS REC'D MC (%)	24.3



COMMENTS

No comments

REPORT DATE 2026.Jan.30

REVIEWED BY



Guillaume Beauce, P.Eng.

Geotechnical Engineer - Materials Testing Services

ASTM D7928 - PARTICLE-SIZE DISTRIBUTION OF FINE-GRAINED SOILS USING THE SEDIMENTATION ANALYSIS

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 1

DATE SAMPLED: 2026.Jan.12

DATE RECEIVED: 2026.Jan.12

DATE TESTED: 2026.Jan.20

SAMPLED BY: Dillon Consulting Ltd.

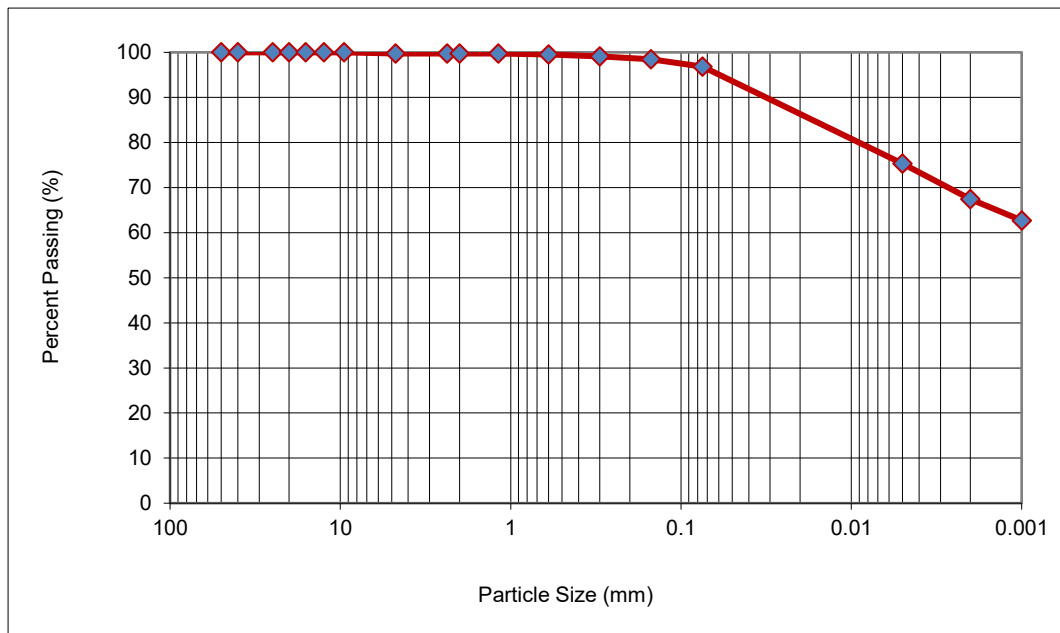
SUBMITTED BY: Dillon Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

CLIENT FIELD ID BH-167, 0.8 m

STANTEC SAMPLE NO. 2715



Sieve Size (mm)	% Passing
50.0	100.0
40.0	100.0
25.0	100.0
20.0	100.0
16.0	100.0
12.5	100.0
9.5	100.0
4.75	99.7
2.36	99.7
2.00	99.7
1.18	99.7
0.600	99.5
0.300	99.1
0.150	98.5
0.075	96.8
0.005	75.3
0.002	67.4
0.001	62.7

Gravel	Sand			Silt	Clay	Colloids
	Coarse	Medium	Fine			
0.3	0.0	0.4	2.5	29.4	67.4	62.7

COMMENTS

No comments.



REPORT DATE 2026.Jan.22

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D7928 - PARTICLE-SIZE DISTRIBUTION OF FINE-GRAINED SOILS USING THE SEDIMENTATION ANALYSIS

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 2

DATE SAMPLED: 2026.Jan.12

DATE RECEIVED: 2026.Jan.12

DATE TESTED: 2026.Jan.20

SAMPLED BY: Dillon Consulting Ltd.

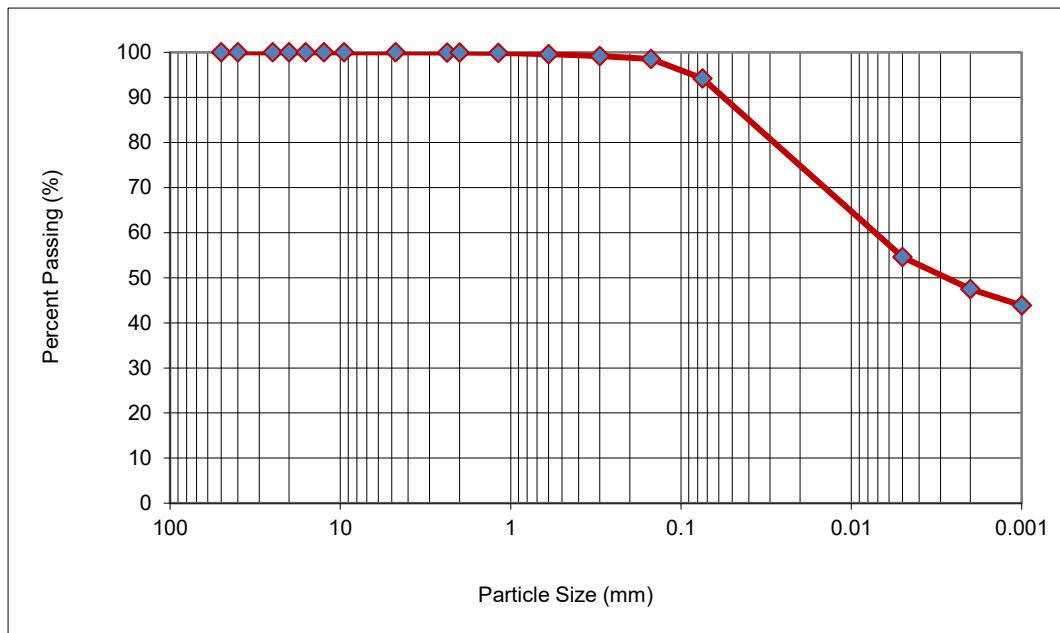
SUBMITTED BY: Dillon Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

CLIENT FIELD ID BH-168, 0.8 m

STANTEC SAMPLE NO. 2716



Sieve Size (mm)	% Passing
50.0	100.0
40.0	100.0
25.0	100.0
20.0	100.0
16.0	100.0
12.5	100.0
9.5	100.0
4.75	100.0
2.36	100.0
2.00	100.0
1.18	99.9
0.600	99.6
0.300	99.2
0.150	98.5
0.075	94.2
0.005	54.6
0.002	47.5
0.001	43.9

Gravel	Sand			Silt	Clay	Colloids
	Coarse	Medium	Fine			
0.0	0.0	0.6	5.2	46.7	47.5	43.9

COMMENTS

No comments.



REPORT DATE 2026.Jan.22

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D7928 - PARTICLE-SIZE DISTRIBUTION OF FINE-GRAINED SOILS USING THE SEDIMENTATION ANALYSIS

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 3

DATE SAMPLED: 2026.Jan.12

DATE RECEIVED: 2026.Jan.12

DATE TESTED: 2026.Jan.20

SAMPLED BY: Dillon Consulting Ltd.

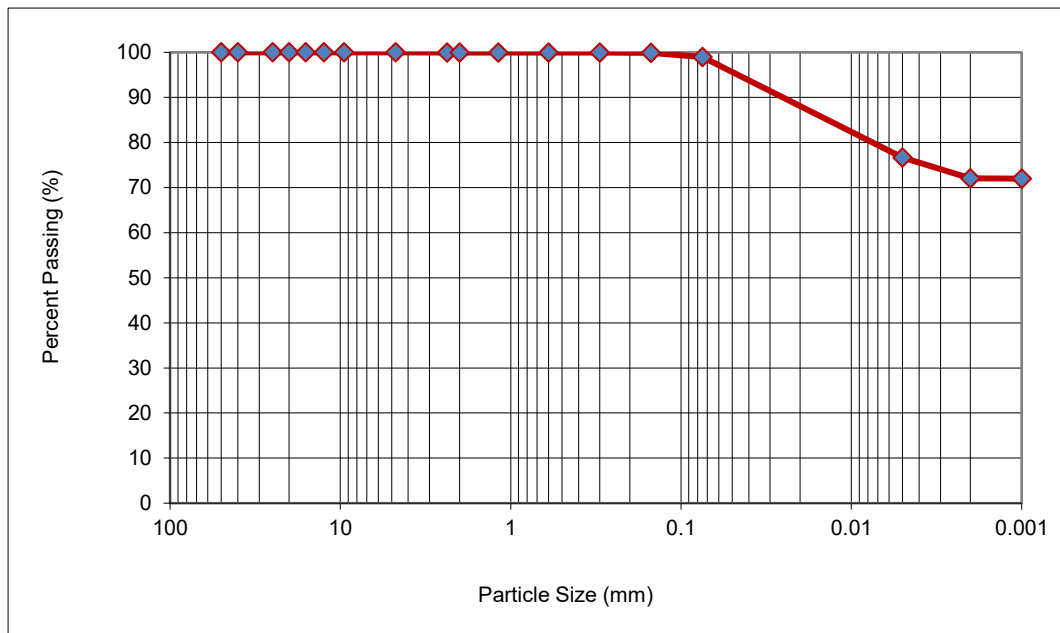
SUBMITTED BY: Dillon Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

CLIENT FIELD ID BH-170, 0.8 m

STANTEC SAMPLE NO. 2717



Sieve Size (mm)	% Passing
50.0	100.0
40.0	100.0
25.0	100.0
20.0	100.0
16.0	100.0
12.5	100.0
9.5	100.0
4.75	100.0
2.36	100.0
2.00	100.0
1.18	100.0
0.600	100.0
0.300	99.9
0.150	99.9
0.075	98.9
0.005	76.7
0.002	72.1
0.001	72.0

Gravel	Sand			Silt	Clay	Colloids
	Coarse	Medium	Fine			
0.0	0.0	0.0	1.1	26.8	72.1	72.0

COMMENTS

No comments.



REPORT DATE 2026.Jan.22

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D7928 - PARTICLE-SIZE DISTRIBUTION OF FINE-GRAINED SOILS USING THE SEDIMENTATION ANALYSIS

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 4

DATE SAMPLED: 2026.Jan.12

DATE RECEIVED: 2026.Jan.12

DATE TESTED: 2026.Jan.20

SAMPLED BY: Dillon Consulting Ltd.

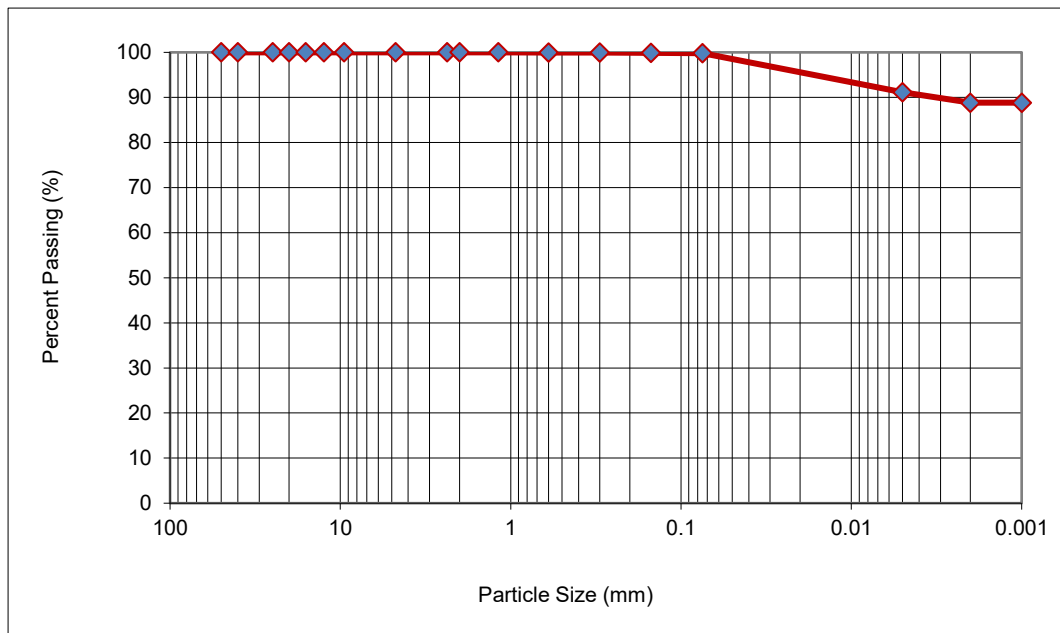
SUBMITTED BY: Dillon Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

CLIENT FIELD ID BH-171, 0.8 m

STANTEC SAMPLE NO. 2718



Sieve Size (mm)	% Passing
50.0	100.0
40.0	100.0
25.0	100.0
20.0	100.0
16.0	100.0
12.5	100.0
9.5	100.0
4.75	100.0
2.36	100.0
2.00	100.0
1.18	100.0
0.600	100.0
0.300	99.9
0.150	99.9
0.075	99.8
0.005	91.2
0.002	88.8
0.001	88.8

Gravel	Sand			Silt	Clay	Colloids
	Coarse	Medium	Fine			
0.0	0.0	0.0	0.2	11.0	88.8	88.8

COMMENTS

No comments.



REPORT DATE 2026.Jan.22

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D7928 - PARTICLE-SIZE DISTRIBUTION OF FINE-GRAINED SOILS USING THE SEDIMENTATION ANALYSIS

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 5

DATE SAMPLED: 2026.Jan.12

DATE RECEIVED: 2026.Jan.12

DATE TESTED: 2026.Jan.20

SAMPLED BY: Dillon Consulting Ltd.

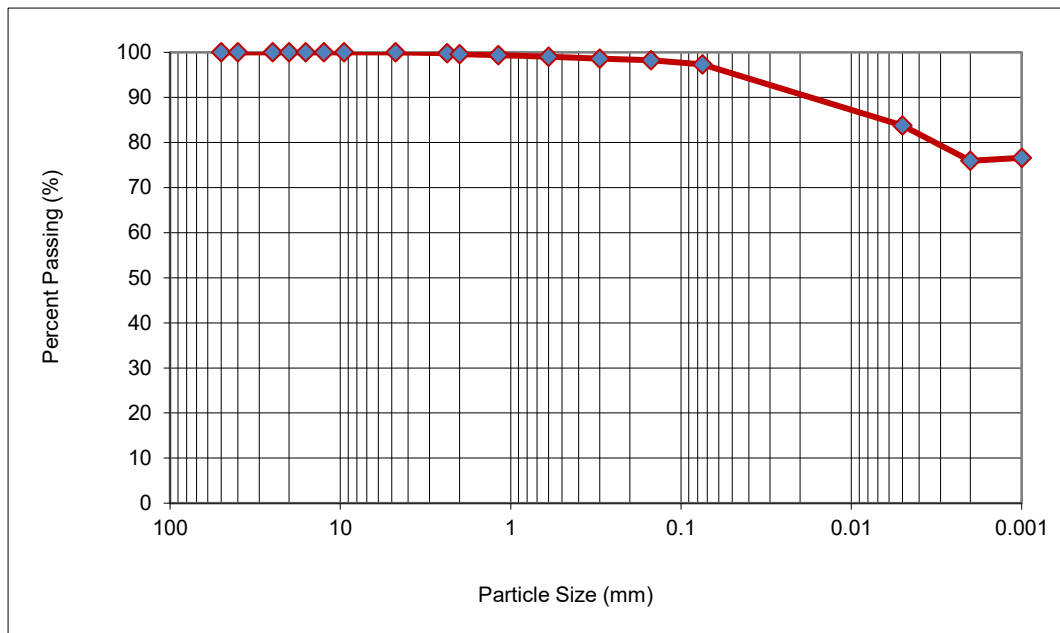
SUBMITTED BY: Dillon Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

CLIENT FIELD ID BH-172, 0.8 m

STANTEC SAMPLE NO. 2719



Sieve Size (mm)	% Passing
50.0	100.0
40.0	100.0
25.0	100.0
20.0	100.0
16.0	100.0
12.5	100.0
9.5	100.0
4.75	100.0
2.36	99.8
2.00	99.6
1.18	99.4
0.600	99.0
0.300	98.6
0.150	98.2
0.075	97.4
0.005	83.7
0.002	75.9
0.001	76.6

Gravel	Sand			Silt	Clay	Colloids
	Coarse	Medium	Fine			
0.0	0.4	0.8	1.4	21.5	75.9	76.6

COMMENTS

No comments.



REPORT DATE 2026.Jan.22

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D7928 - PARTICLE-SIZE DISTRIBUTION OF FINE-GRAINED SOILS USING THE SEDIMENTATION ANALYSIS

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 6

DATE SAMPLED: 2026.Jan.12

DATE RECEIVED: 2026.Jan.12

DATE TESTED: 2026.Jan.20

SAMPLED BY: Dillon Consulting Ltd.

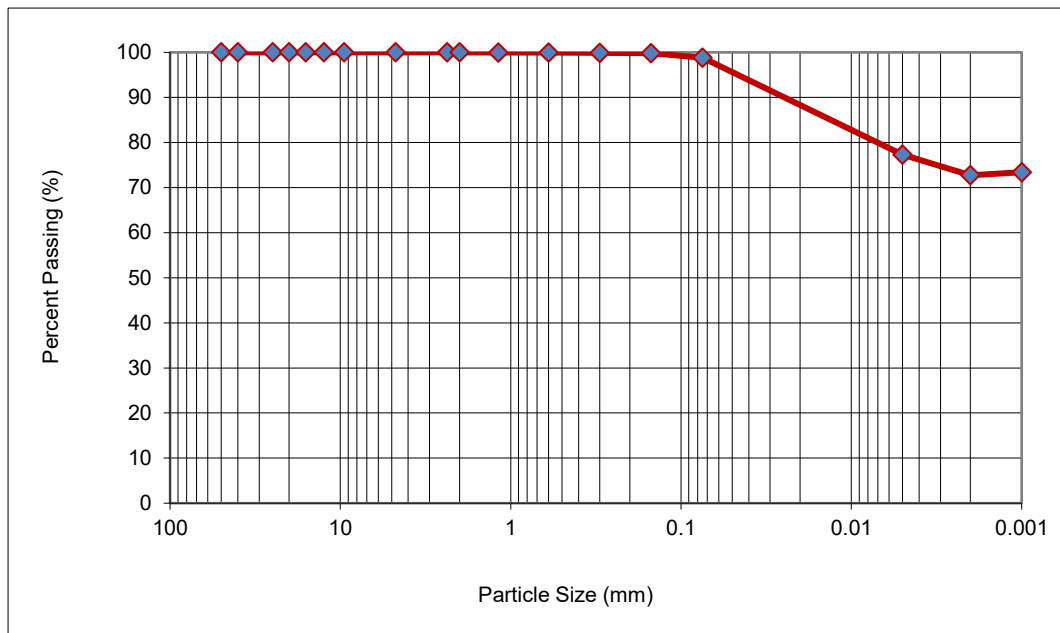
SUBMITTED BY: Dillon Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

CLIENT FIELD ID BH-174, 0.8 m

STANTEC SAMPLE NO. 2720



Sieve Size (mm)	% Passing
50.0	100.0
40.0	100.0
25.0	100.0
20.0	100.0
16.0	100.0
12.5	100.0
9.5	100.0
4.75	100.0
2.36	100.0
2.00	100.0
1.18	100.0
0.600	99.9
0.300	99.9
0.150	99.8
0.075	98.8
0.005	77.3
0.002	72.7
0.001	73.4

Gravel	Sand			Silt	Clay	Colloids
	Coarse	Medium	Fine			
0.0	0.0	0.1	1.1	26.1	72.7	73.4

COMMENTS

No comments.



REPORT DATE 2026.Jan.22

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D7928 - PARTICLE-SIZE DISTRIBUTION OF FINE-GRAINED SOILS USING THE SEDIMENTATION ANALYSIS

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 7

DATE SAMPLED: 2026.Jan.13

DATE RECEIVED: 2026.Jan.13

DATE TESTED: 2026.Jan.20

SAMPLED BY: Dillon Consulting Ltd.

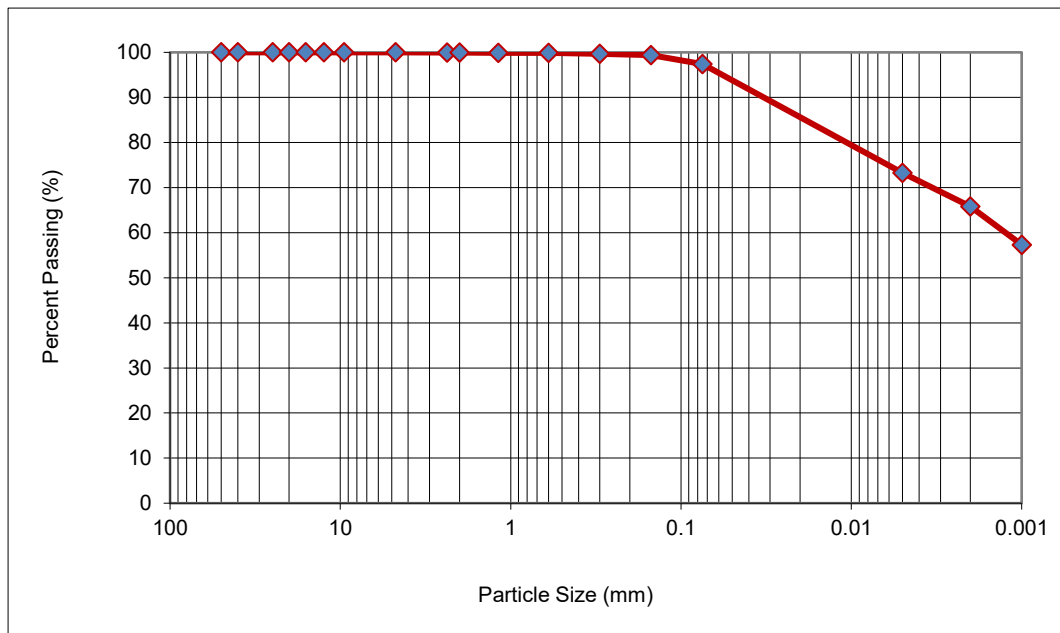
SUBMITTED BY: Dillon Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

CLIENT FIELD ID BH-175, 0.8 m

STANTEC SAMPLE NO. 2721



Sieve Size (mm)	% Passing
50.0	100.0
40.0	100.0
25.0	100.0
20.0	100.0
16.0	100.0
12.5	100.0
9.5	100.0
4.75	100.0
2.36	99.9
2.00	99.9
1.18	99.9
0.600	99.9
0.300	99.7
0.150	99.4
0.075	97.4
0.005	73.2
0.002	65.8
0.001	57.3

Gravel	Sand			Silt	Clay	Colloids
	Coarse	Medium	Fine			
0.0	0.1	0.2	2.3	31.6	65.8	57.3

COMMENTS

No comments.



REPORT DATE 2026.Jan.22

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D7928 - PARTICLE-SIZE DISTRIBUTION OF FINE-GRAINED SOILS USING THE SEDIMENTATION ANALYSIS

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 8

DATE SAMPLED: 2026.Jan.13

DATE RECEIVED: 2026.Jan.13

DATE TESTED: 2026.Jan.20

SAMPLED BY: Dillon Consulting Ltd.

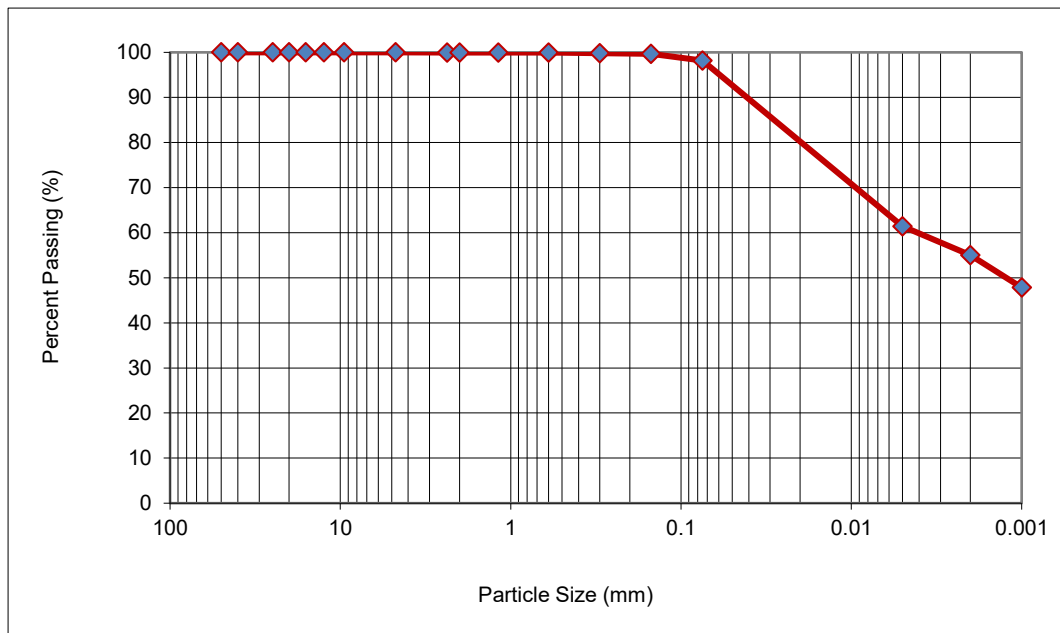
SUBMITTED BY: Dillon Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

CLIENT FIELD ID BH-176, 0.8 m

STANTEC SAMPLE NO. 2722



Sieve Size (mm)	% Passing
50.0	100.0
40.0	100.0
25.0	100.0
20.0	100.0
16.0	100.0
12.5	100.0
9.5	100.0
4.75	100.0
2.36	100.0
2.00	100.0
1.18	100.0
0.600	100.0
0.300	99.8
0.150	99.7
0.075	98.2
0.005	61.4
0.002	55.1
0.001	47.8

Gravel	Sand			Silt	Clay	Colloids
	Coarse	Medium	Fine			
0.0	0.0	0.1	1.7	43.1	55.1	47.8

COMMENTS

No comments.



REPORT DATE 2026.Jan.22

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D7928 - PARTICLE-SIZE DISTRIBUTION OF FINE-GRAINED SOILS USING THE SEDIMENTATION ANALYSIS

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 9

DATE SAMPLED: 2026.Jan.13
SAMPLED BY: Dillon Consulting Ltd.

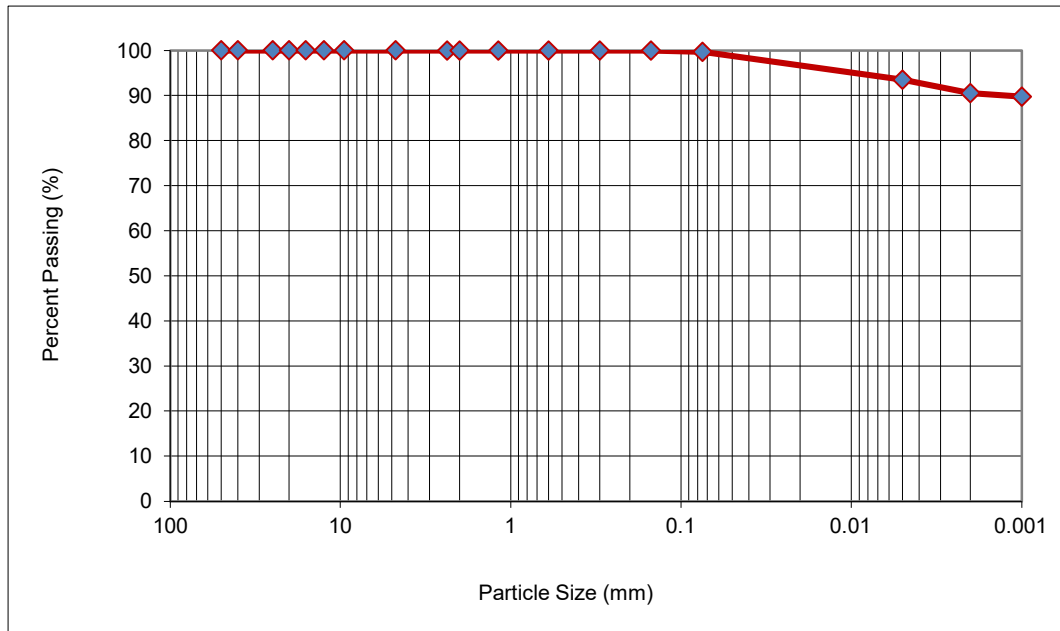
DATE RECEIVED: 2026.Jan.13
SUBMITTED BY: Dillon Consulting Ltd.

DATE TESTED: 2026.Jan.21
TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

CLIENT FIELD ID BH-178, 0.8 m

STANTEC SAMPLE NO. 2723



Sieve Size (mm)	% Passing
50.0	100.0
40.0	100.0
25.0	100.0
20.0	100.0
16.0	100.0
12.5	100.0
9.5	100.0
4.75	100.0
2.36	100.0
2.00	100.0
1.18	100.0
0.600	100.0
0.300	100.0
0.150	100.0
0.075	99.7
0.005	93.5
0.002	90.5
0.001	89.8

Gravel	Sand			Silt	Clay	Colloids
	Coarse	Medium	Fine			
0.0	0.0	0.0	0.3	9.2	90.5	89.8

COMMENTS
No comments.



REPORT DATE 2026.Jan.29

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D7928 - PARTICLE-SIZE DISTRIBUTION OF FINE-GRAINED SOILS USING THE SEDIMENTATION ANALYSIS

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 10

DATE SAMPLED: 2026.Jan.13
SAMPLED BY: Dillon Consulting Ltd.

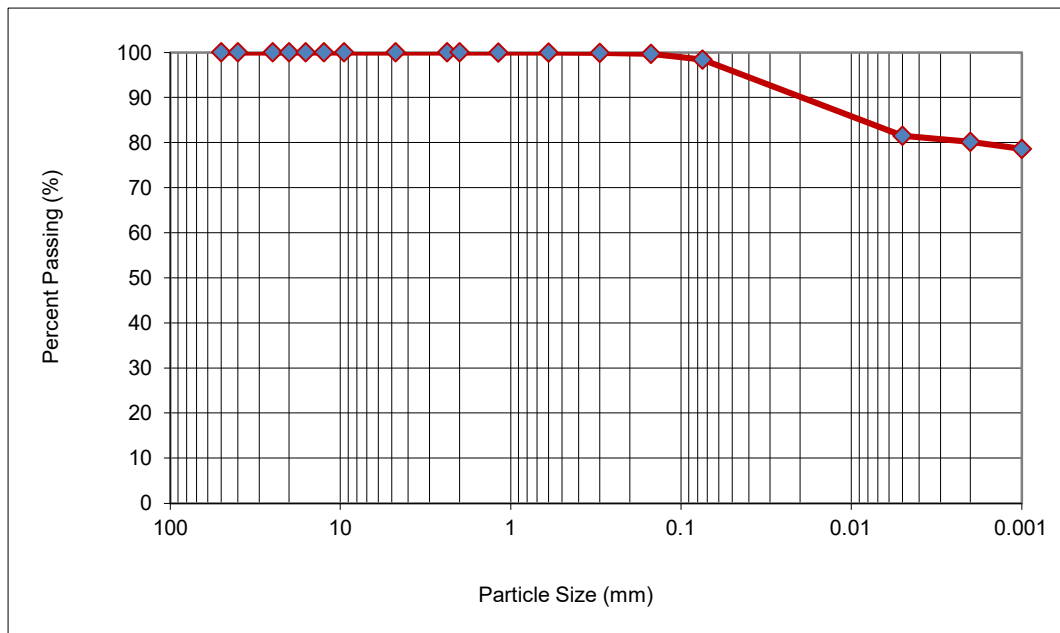
DATE RECEIVED: 2026.Jan.13
SUBMITTED BY: Dillon Consulting Ltd.

DATE TESTED: 2026.Jan.21
TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

CLIENT FIELD ID BH-179, 0.8 m

STANTEC SAMPLE NO. 2724



Sieve Size (mm)	% Passing
50.0	100.0
40.0	100.0
25.0	100.0
20.0	100.0
16.0	100.0
12.5	100.0
9.5	100.0
4.75	100.0
2.36	100.0
2.00	100.0
1.18	99.9
0.600	99.9
0.300	99.9
0.150	99.7
0.075	98.4
0.005	81.5
0.002	80.2
0.001	78.6

Gravel	Sand			Silt	Clay	Colloids
	Coarse	Medium	Fine			
0.0	0.0	0.1	1.5	18.2	80.2	78.6

COMMENTS

No comments.



REPORT DATE 2026.Jan.29

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D7928 - PARTICLE-SIZE DISTRIBUTION OF FINE-GRAINED SOILS USING THE SEDIMENTATION ANALYSIS

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 11

DATE SAMPLED: 2026.Jan.13
SAMPLED BY: Dillon Consulting Ltd.

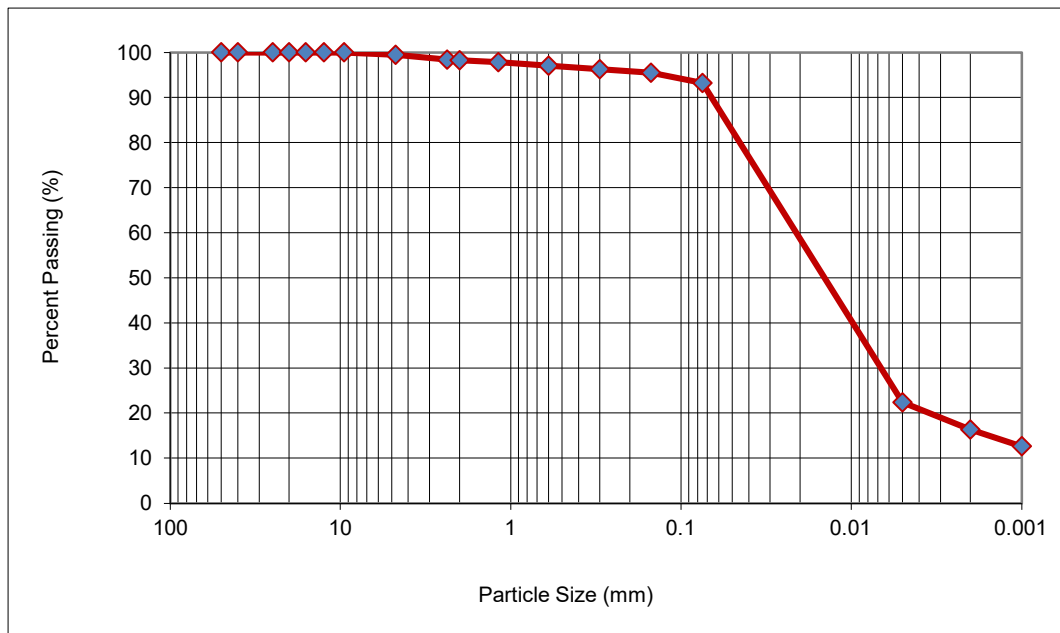
DATE RECEIVED: 2026.Jan.13
SUBMITTED BY: Dillon Consulting Ltd.

DATE TESTED: 2026.Jan.21
TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

CLIENT FIELD ID BH-181, 0.8 m

STANTEC SAMPLE NO. 2725



Sieve Size (mm)	% Passing
50.0	100.0
40.0	100.0
25.0	100.0
20.0	100.0
16.0	100.0
12.5	100.0
9.5	100.0
4.75	99.4
2.36	98.4
2.00	98.2
1.18	97.9
0.600	97.0
0.300	96.3
0.150	95.5
0.075	93.2
0.005	22.4
0.002	16.3
0.001	12.6

Gravel	Sand			Silt	Clay	Colloids
	Coarse	Medium	Fine			
0.6	1.2	1.6	3.4	76.9	16.3	12.6

COMMENTS

No comments.



REPORT DATE 2026.Jan.29

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D7928 - PARTICLE-SIZE DISTRIBUTION OF FINE-GRAINED SOILS USING THE SEDIMENTATION ANALYSIS

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 12

DATE SAMPLED: 2026.Jan.13
SAMPLED BY: Dillon Consulting Ltd.

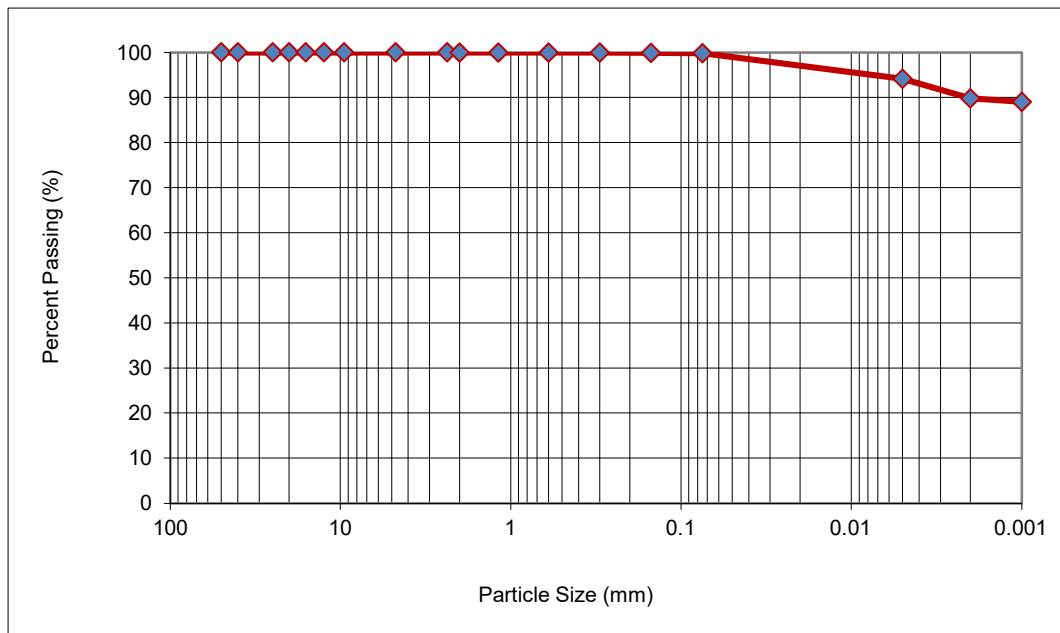
DATE RECEIVED: 2026.Jan.13
SUBMITTED BY: Dillon Consulting Ltd.

DATE TESTED: 2026.Jan.21
TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

CLIENT FIELD ID BH-182, 0.8 m

STANTEC SAMPLE NO. 2726



Sieve Size (mm)	% Passing
50.0	100.0
40.0	100.0
25.0	100.0
20.0	100.0
16.0	100.0
12.5	100.0
9.5	100.0
4.75	100.0
2.36	100.0
2.00	100.0
1.18	100.0
0.600	100.0
0.300	100.0
0.150	99.9
0.075	99.8
0.005	94.1
0.002	89.8
0.001	89.1

Gravel	Sand			Silt	Clay	Colloids
	Coarse	Medium	Fine			
0.0	0.0	0.0	0.2	10.0	89.8	89.1

COMMENTS

No comments.



REPORT DATE 2026.Jan.29

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D7928 - PARTICLE-SIZE DISTRIBUTION OF FINE-GRAINED SOILS USING THE SEDIMENTATION ANALYSIS

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 13

DATE SAMPLED: 2026.Jan.14

DATE RECEIVED: 2026.Jan.14

DATE TESTED: 2026.Jan.21

SAMPLED BY: Dillon Consulting Ltd.

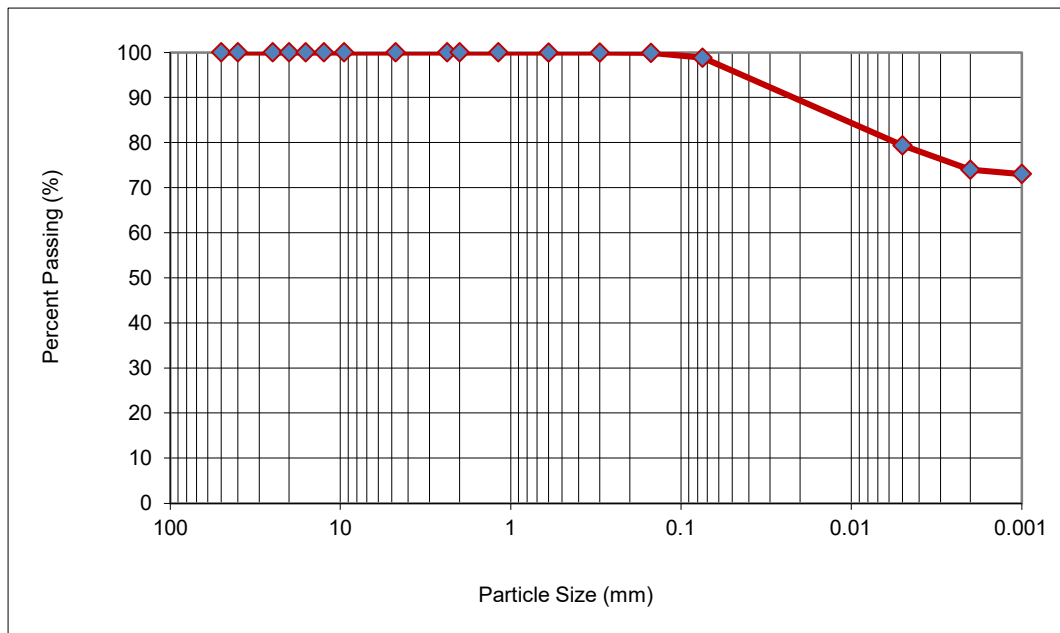
SUBMITTED BY: Dillon Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

CLIENT FIELD ID BH-183, 0.7 m

STANTEC SAMPLE NO. 2727



Sieve Size (mm)	% Passing
50.0	100.0
40.0	100.0
25.0	100.0
20.0	100.0
16.0	100.0
12.5	100.0
9.5	100.0
4.75	100.0
2.36	100.0
2.00	100.0
1.18	100.0
0.600	100.0
0.300	100.0
0.150	99.9
0.075	98.9
0.005	79.4
0.002	74.0
0.001	73.0

Gravel	Sand			Silt	Clay	Colloids
	Coarse	Medium	Fine			
0.0	0.0	0.0	1.1	24.9	74.0	73.0

COMMENTS

No comments.



REPORT DATE 2026.Jan.29

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D7928 - PARTICLE-SIZE DISTRIBUTION OF FINE-GRAINED SOILS USING THE SEDIMENTATION ANALYSIS

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 14

DATE SAMPLED: 2026.Jan.14
SAMPLED BY: Dillon Consulting Ltd.

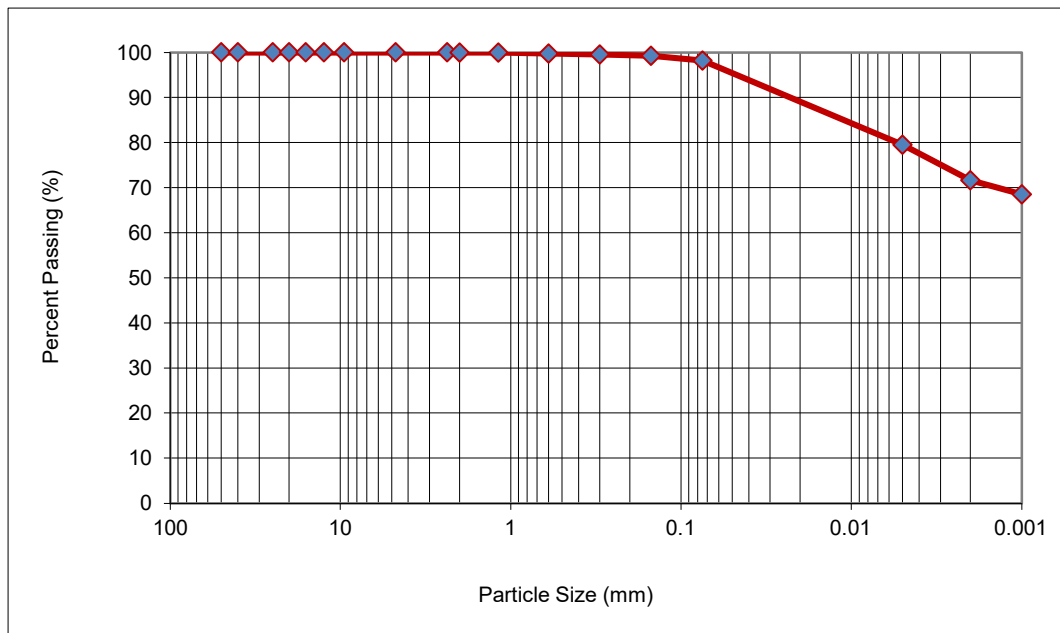
DATE RECEIVED: 2026.Jan.14
SUBMITTED BY: Dillon Consulting Ltd.

DATE TESTED: 2026.Jan.21
TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

CLIENT FIELD ID BH-185, 0.7 m

STANTEC SAMPLE NO. 2727



Sieve Size (mm)	% Passing
50.0	100.0
40.0	100.0
25.0	100.0
20.0	100.0
16.0	100.0
12.5	100.0
9.5	100.0
4.75	100.0
2.36	100.0
2.00	100.0
1.18	100.0
0.600	99.8
0.300	99.5
0.150	99.2
0.075	98.2
0.005	79.5
0.002	71.6
0.001	68.5

Gravel	Sand			Silt	Clay	Colloids
	Coarse	Medium	Fine			
0.0	0.0	0.4	1.4	26.6	71.6	68.5

COMMENTS

No comments.



REPORT DATE 2026.Jan.29

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D7928 - PARTICLE-SIZE DISTRIBUTION OF FINE-GRAINED SOILS USING THE SEDIMENTATION ANALYSIS

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 16

DATE SAMPLED: 2026.Jan.14
SAMPLED BY: Dillon Consulting Ltd.

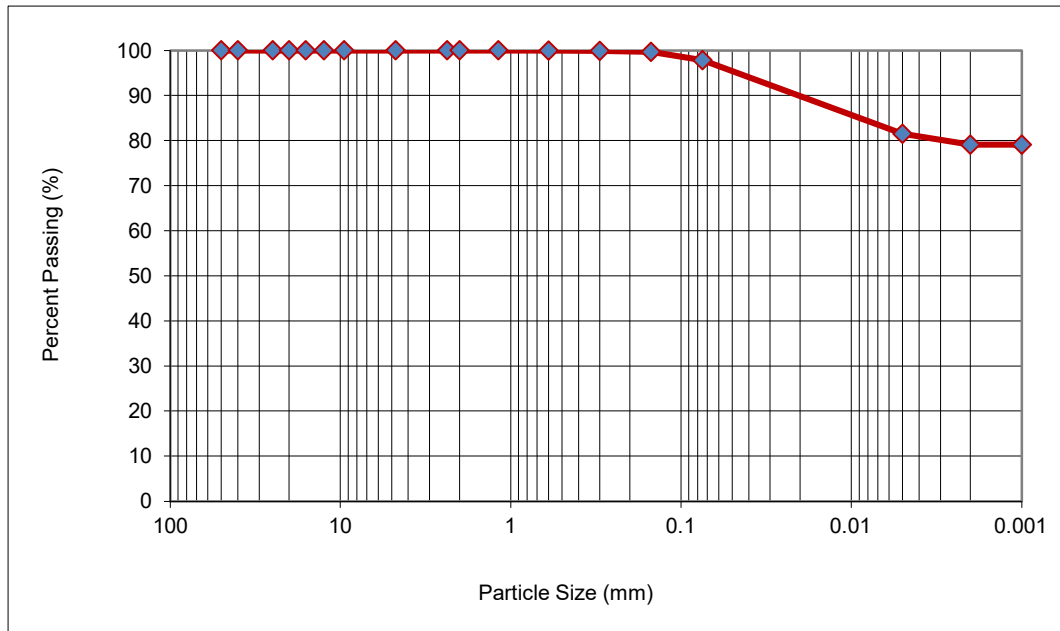
DATE RECEIVED: 2026.Jan.14
SUBMITTED BY: Dillon Consulting Ltd.

DATE TESTED: 2026.Jan.26
TESTED BY: Larry Presado

MATERIAL IDENTIFICATION

CLIENT FIELD ID BH-187, 0.8 m

STANTEC SAMPLE NO. 2730



Sieve Size (mm)	% Passing
50.0	100.0
40.0	100.0
25.0	100.0
20.0	100.0
16.0	100.0
12.5	100.0
9.5	100.0
4.75	100.0
2.36	100.0
2.00	100.0
1.18	100.0
0.600	100.0
0.300	99.9
0.150	99.7
0.075	97.8
0.005	81.5
0.002	79.1
0.001	79.1

Gravel	Sand			Silt	Clay	Colloids
	Coarse	Medium	Fine			
0.0	0.0	0.1	2.1	18.7	79.1	79.1

COMMENTS
No comments.



REPORT DATE 2026.Jan.29

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D7928 - PARTICLE-SIZE DISTRIBUTION OF FINE-GRAINED SOILS USING THE SEDIMENTATION ANALYSIS

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 17

DATE SAMPLED: 2026.Jan.14
SAMPLED BY: Dillon Consulting Ltd.

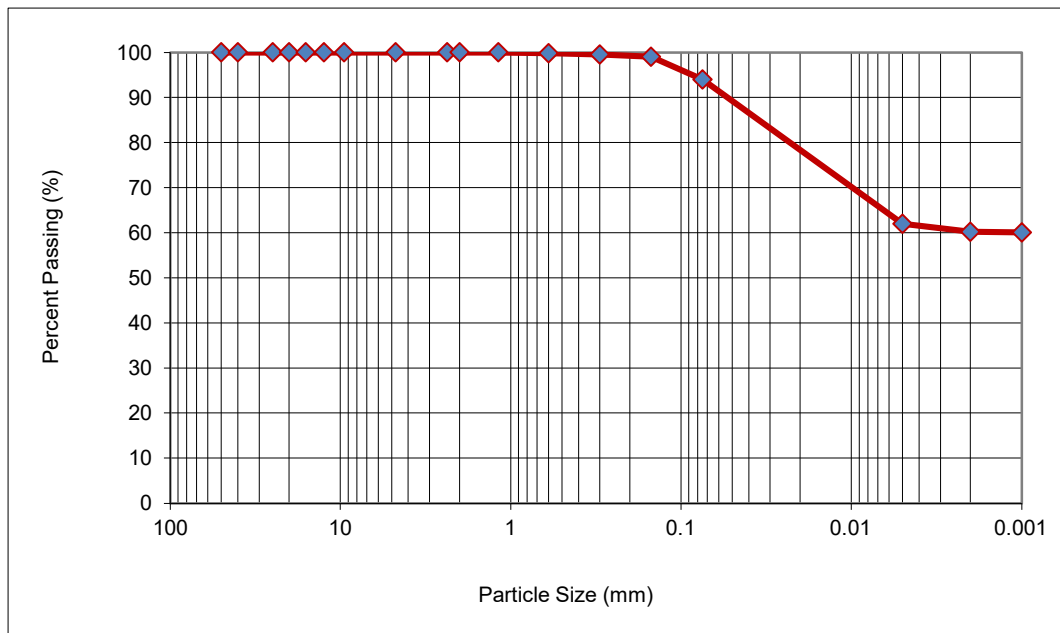
DATE RECEIVED: 2026.Jan.14
SUBMITTED BY: Dillon Consulting Ltd.

DATE TESTED: 2026.Jan.26
TESTED BY: Larry Presado

MATERIAL IDENTIFICATION

CLIENT FIELD ID BH-188, 0.8 m

STANTEC SAMPLE NO. 2731



Sieve Size (mm)	% Passing
50.0	100.0
40.0	100.0
25.0	100.0
20.0	100.0
16.0	100.0
12.5	100.0
9.5	100.0
4.75	100.0
2.36	100.0
2.00	100.0
1.18	100.0
0.600	99.8
0.300	99.6
0.150	99.0
0.075	94.0
0.005	62.0
0.002	60.2
0.001	60.1

Gravel	Sand			Silt	Clay	Colloids
	Coarse	Medium	Fine			
0.0	0.0	0.3	5.7	33.8	60.2	60.1

COMMENTS
No comments.



REPORT DATE 2026.Jan.29

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D7928 - PARTICLE-SIZE DISTRIBUTION OF FINE-GRAINED SOILS USING THE SEDIMENTATION ANALYSIS

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300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 18

DATE SAMPLED: 2026.Jan.15
SAMPLED BY: Dillon Consulting Ltd.

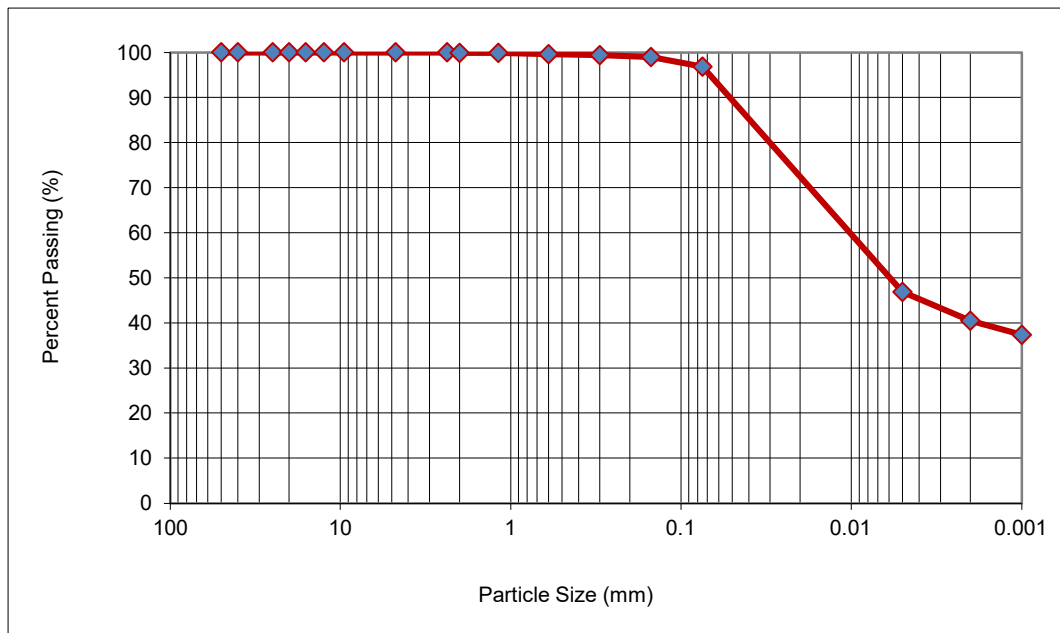
DATE RECEIVED: 2026.Jan.15
SUBMITTED BY: Dillon Consulting Ltd.

DATE 2026.Jan.26
TESTED BY: Larry Presado

MATERIAL IDENTIFICATION

CLIENT FIELD ID BH-189, 0.8 m

STANTEC SAMPLE NO. 2732



Sieve Size (mm)	% Passing
50.0	100.0
40.0	100.0
25.0	100.0
20.0	100.0
16.0	100.0
12.5	100.0
9.5	100.0
4.75	100.0
2.36	100.0
2.00	99.9
1.18	99.9
0.600	99.6
0.300	99.4
0.150	99.0
0.075	96.8
0.005	46.8
0.002	40.5
0.001	37.4

Gravel	Sand			Silt	Clay	Colloids
	Coarse	Medium	Fine			
0.0	0.1	0.4	2.7	56.3	40.5	37.4

COMMENTS

No comments.



REPORT DATE 2026.Jan.29

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D7928 - PARTICLE-SIZE DISTRIBUTION OF FINE-GRAINED SOILS USING THE SEDIMENTATION ANALYSIS

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 19

DATE SAMPLED: 2026.Jan.14
SAMPLED BY: Dillon Consulting Ltd.

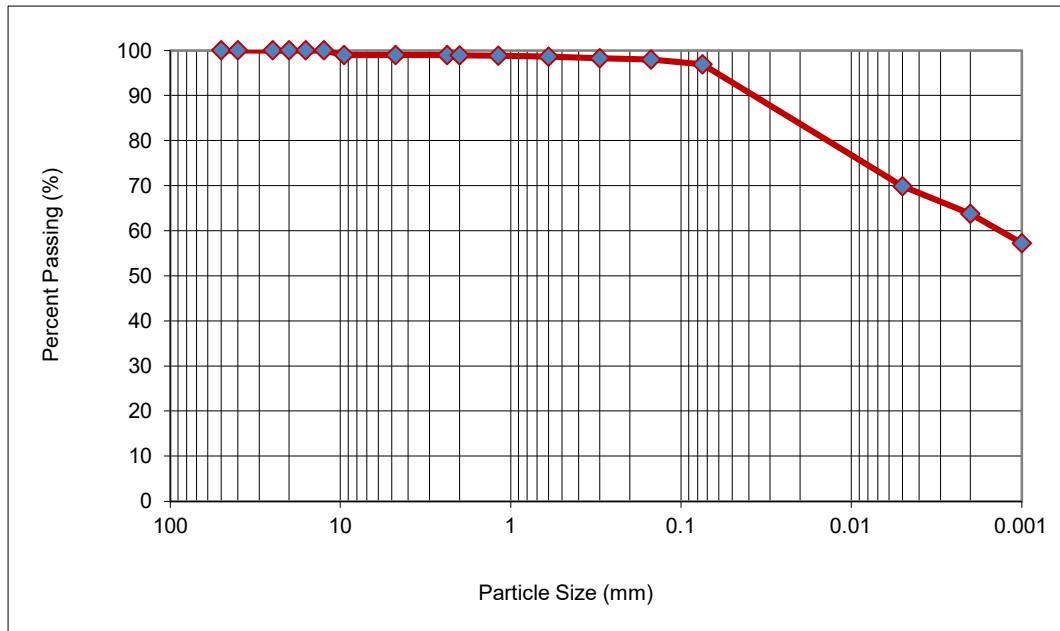
DATE RECEIVED: 2026.Jan.14
SUBMITTED BY: Dillon Consulting Ltd.

DATE 2026.Jan.26
TESTED BY: Larry Presado

MATERIAL IDENTIFICATION

CLIENT FIELD ID BH-191, 0.8 m

STANTEC SAMPLE NO. 2733



Sieve Size (mm)	% Passing
50.0	100.0
40.0	100.0
25.0	100.0
20.0	100.0
16.0	100.0
12.5	100.0
9.5	99.0
4.75	99.0
2.36	99.0
2.00	98.9
1.18	98.8
0.600	98.6
0.300	98.3
0.150	97.9
0.075	96.9
0.005	69.9
0.002	63.8
0.001	57.2

Gravel	Sand			Silt	Clay	Colloids
	Coarse	Medium	Fine			
1.0	0.1	0.5	1.5	33.1	63.8	57.2

COMMENTS

No comments.



REPORT DATE 2026.Jan.29

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D7928 - PARTICLE-SIZE DISTRIBUTION OF FINE-GRAINED SOILS USING THE SEDIMENTATION ANALYSIS

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
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PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 20

DATE SAMPLED: 2026.Jan.15
SAMPLED BY: Dillon Consulting Ltd.

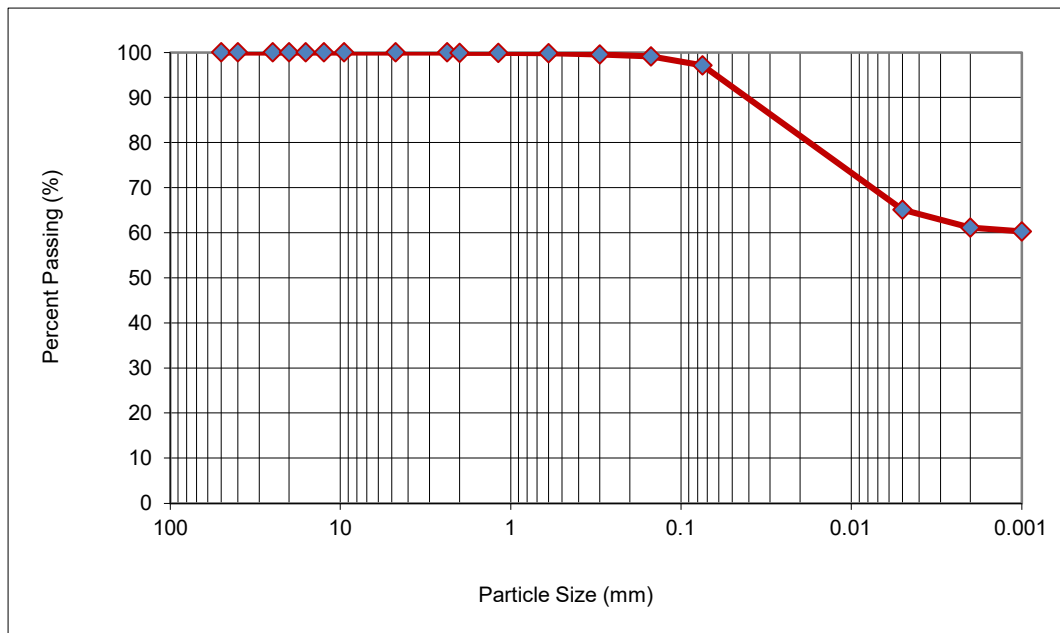
DATE RECEIVED: 2026.Jan.15
SUBMITTED BY: Dillon Consulting Ltd.

DATE 2026.Jan.26
TESTED BY: Larry Presado

MATERIAL IDENTIFICATION

CLIENT FIELD ID BH-192, 0.7 m

STANTEC SAMPLE NO. 2734



ASTM D7928 - PARTICLE-SIZE DISTRIBUTION OF FINE-GRAINED SOILS USING THE SEDIMENTATION ANALYSIS

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 21

DATE SAMPLED: 2026.Jan.15
SAMPLED BY: Dillon Consulting Ltd.

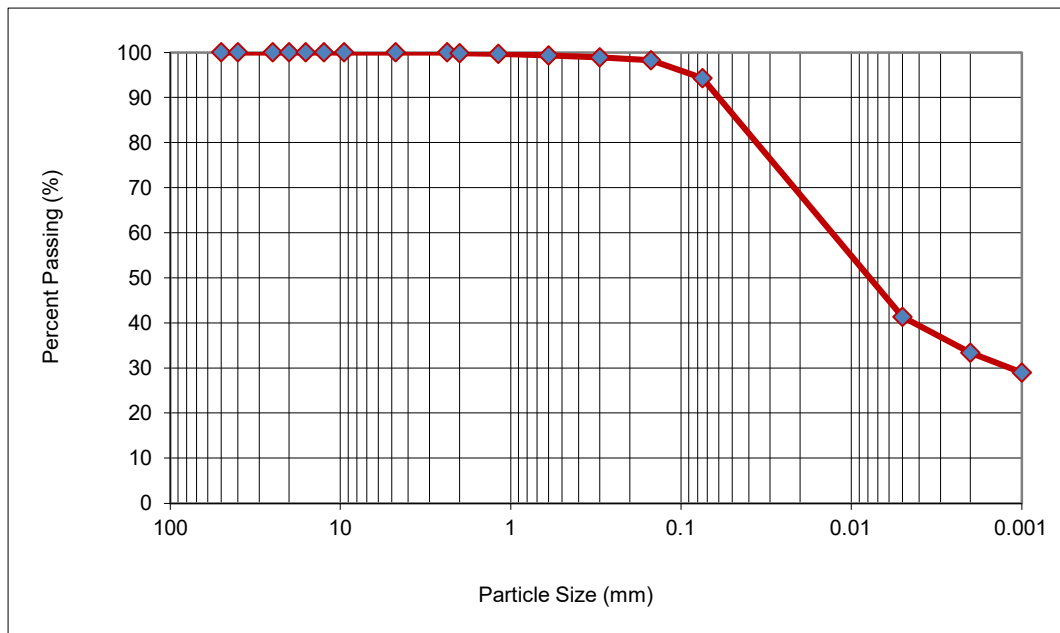
DATE RECEIVED: 2026.Jan.15
SUBMITTED BY: Dillon Consulting Ltd.

DATE 2026.Jan.26
TESTED BY: Larry Presado

MATERIAL IDENTIFICATION

CLIENT FIELD ID BH-193, 0.8 m

STANTEC SAMPLE NO. 2735



ASTM D7928 - PARTICLE-SIZE DISTRIBUTION OF FINE-GRAINED SOILS USING THE SEDIMENTATION ANALYSIS

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 22

DATE SAMPLED: 2026.Jan.15
SAMPLED BY: Dillon Consulting Ltd.

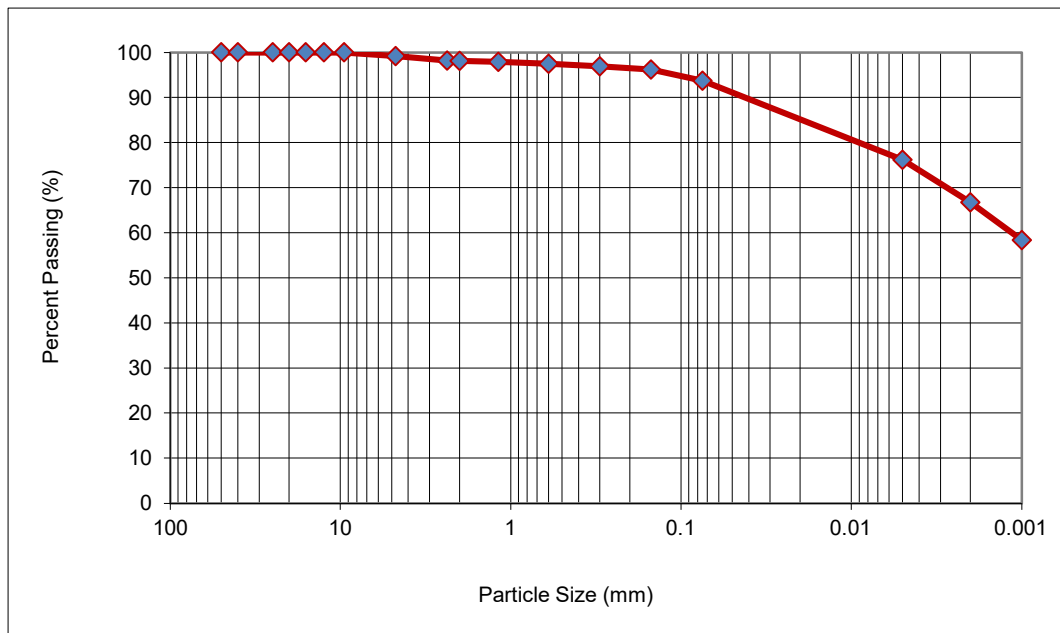
DATE RECEIVED: 2026.Jan.15
SUBMITTED BY: Dillon Consulting Ltd.

DATE: 2026.Jan.26
TESTED BY: Larry Presado

MATERIAL IDENTIFICATION

CLIENT FIELD ID BH-194, 0.7m

STANTEC SAMPLE NO. 2736



Sieve Size (mm)	% Passing
50.0	100.0
40.0	100.0
25.0	100.0
20.0	100.0
16.0	100.0
12.5	100.0
9.5	100.0
4.75	99.2
2.36	98.2
2.00	98.1
1.18	97.9
0.600	97.4
0.300	96.9
0.150	96.2
0.075	93.7
0.005	76.2
0.002	66.7
0.001	58.4

Gravel	Sand			Silt	Clay	Colloids
	Coarse	Medium	Fine			
0.8	1.1	1.0	3.4	27.0	66.7	58.4

COMMENTS

No comments.

REPORT DATE 2026.Jan.29

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D7928 - PARTICLE-SIZE DISTRIBUTION OF FINE-GRAINED SOILS USING THE SEDIMENTATION ANALYSIS

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, Manitoba
R3G 6G2

PROJECT 2026 Local Street Renewal Program - 26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 23

DATE SAMPLED: 2026.Jan.15
SAMPLED BY: Dillon Consulting Ltd.

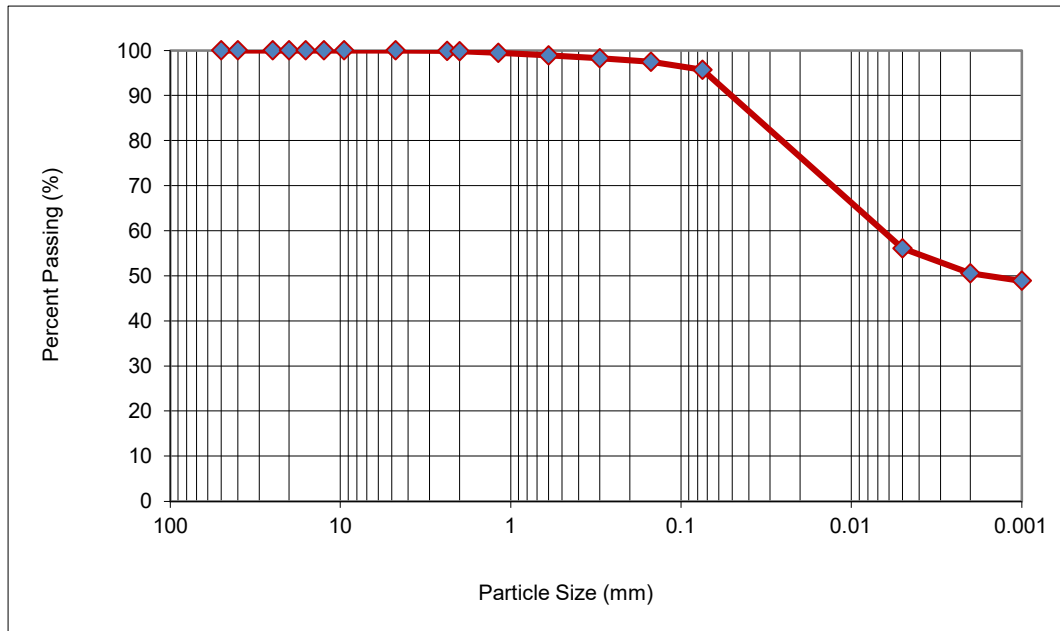
DATE RECEIVED: 2026.Jan.15
SUBMITTED BY: Dillon Consulting Ltd.

DATE 2026.Jan.26
TESTED BY: Larry Presado

MATERIAL IDENTIFICATION

CLIENT FIELD ID BH-196, 0.7m

STANTEC SAMPLE NO. 2737



Sieve Size (mm)	% Passing
50.0	100.0
40.0	100.0
25.0	100.0
20.0	100.0
16.0	100.0
12.5	100.0
9.5	100.0
4.75	100.0
2.36	99.9
2.00	99.8
1.18	99.4
0.600	98.9
0.300	98.3
0.150	97.5
0.075	95.7
0.005	56.1
0.002	50.6
0.001	48.9

Gravel	Sand			Silt	Clay	Colloids
	Coarse	Medium	Fine			
0.0	0.2	1.3	2.8	45.1	50.6	48.9

COMMENTS
No comments.



REPORT DATE 2026.Jan.29

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

PROCTOR TEST REPORT

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, MB
R3T 6A8

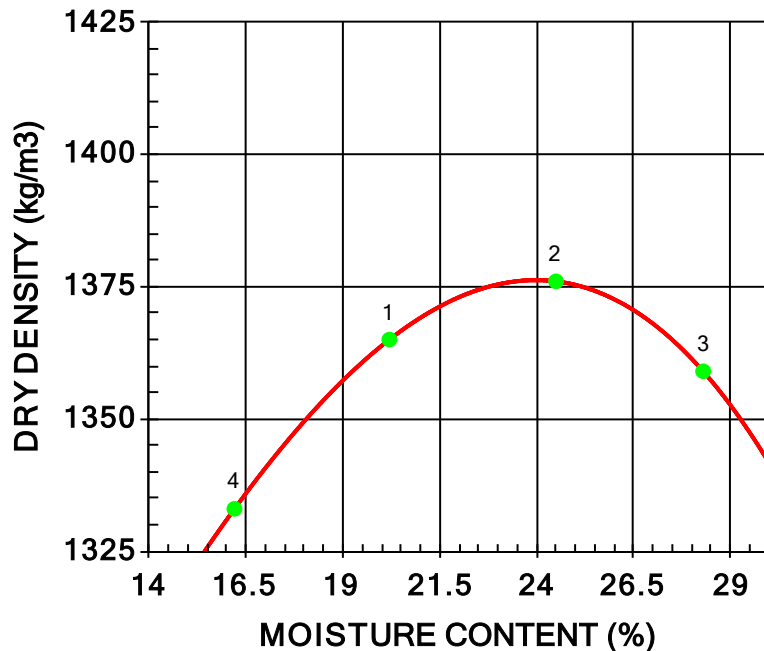
CLIENT Dillon Consulting Ltd.
C.C.

ATTN: Aaron Fleming

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029
PROCTOR NO. 1 DATE SAMPLED 2026.Jan.12 DATE RECEIVED 2026.Jan.12 DATE TESTED 2026.Jan.21

INSITU MOISTURE	39.1 %	COMPACTION STANDARD	Standard Proctor, ASTM
TESTED BY	Donald Eliazar		D698
MATERIAL IDENTIFICATION		COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
MAJOR COMPONENT	Subgrade	RAMMER TYPE	Manual
SIZE	Fat Clay (CH)	PREPARATION	Moist
DESCRIPTION		OVERSIZE CORRECTION METHOD	None
SUPPLIER	Existing Materials	RETAINED 4.75mm SCREEN	N/A %
SOURCE	BH-167, 0.8 m below grade		



TRIAL NUMBER	WET DENSITY (kg/m³)	DRY DENSITY (kg/m³)	MOISTURE CONTENT (%)
1	1641	1365	20.2
2	1713	1376	24.5
3	1743	1359	28.3
4	1549	1333	16.2

	MAXIMUM DRY DENSITY (kg/m³)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1380	24.0
OVERSIZE CORRECTED		

COMMENTS

Stantec Sample No. 2715.

PROCTOR TEST REPORT

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, MB
R3T 6A8

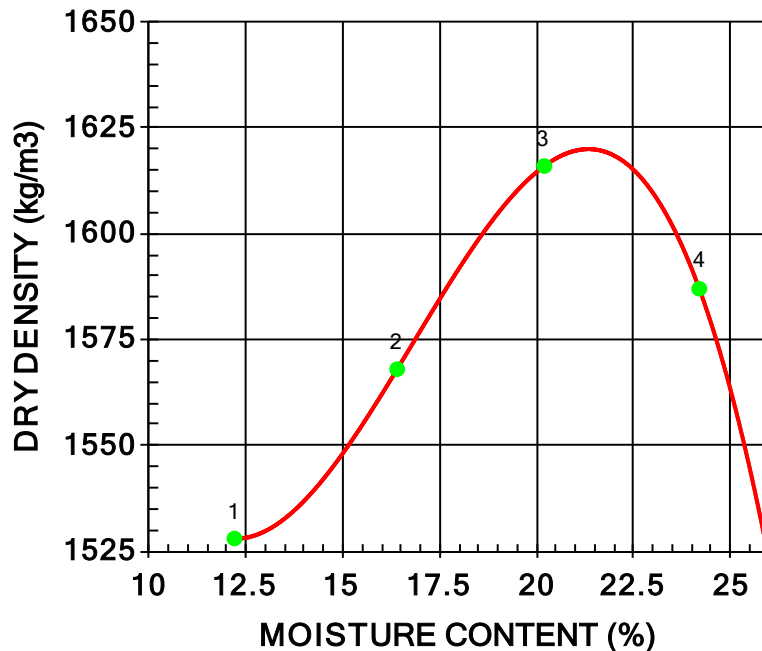
CLIENT Dillon Consulting Ltd.
C.C.

ATTN: Aaron Fleming

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029
PROCTOR NO. 2 DATE SAMPLED 2026.Jan.12 DATE RECEIVED 2026.Jan.12 DATE TESTED 2026.Jan.21

INSITU MOISTURE	31.4 %	COMPACTION STANDARD	Standard Proctor, ASTM
TESTED BY	Donald Eliazar		D698
MATERIAL IDENTIFICATION		COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
MAJOR COMPONENT	Subgrade		
SIZE	Lean Clay (CL)	RAMMER TYPE	Manual
DESCRIPTION		PREPARATION	Moist
SUPPLIER	Existing Materials	OVERSIZE CORRECTION METHOD	None
SOURCE	BH-168, 0.8 m below grade	RETAINED 4.75mm SCREEN	N/A %



TRIAL NUMBER	WET DENSITY (kg/m³)	DRY DENSITY (kg/m³)	MOISTURE CONTENT (%)
1	1714	1528	12.2
2	1825	1568	16.4
3	1942	1616	20.2
4	1971	1587	24.2

	MAXIMUM DRY DENSITY (kg/m³)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1620	21.5
OVERSIZE CORRECTED		

COMMENTS

Stantec Sample No. 2716.

PROCTOR TEST REPORT

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, MB
R3T 6A8

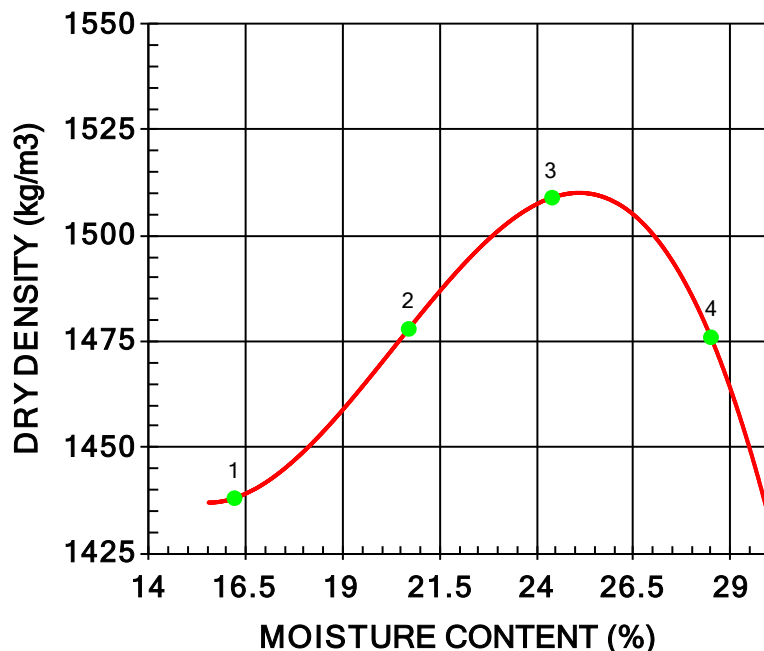
CLIENT Dillon Consulting Ltd.
C.C.

ATTN: Aaron Fleming

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029
PROCTOR NO. 3 DATE SAMPLED 2026.Jan.12 DATE RECEIVED 2026.Jan.12 DATE TESTED 2026.Jan.21

INSITU MOISTURE	32.3 %	COMPACTION STANDARD	Standard Proctor, ASTM
TESTED BY	Donald Eliazar		D698
MATERIAL IDENTIFICATION		COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
MAJOR COMPONENT	Subgrade	RAMMER TYPE	Manual
SIZE	Fat Clay (CH)	PREPARATION	Moist
DESCRIPTION		OVERSIZE CORRECTION METHOD	None
SUPPLIER	Existing Materials	RETAINED 4.75mm SCREEN	N/A %
SOURCE	BH-170, 0.8 m below grade		



TRIAL NUMBER	WET DENSITY (kg/m³)	DRY DENSITY (kg/m³)	MOISTURE CONTENT (%)
1	1671	1438	16.2
2	1784	1478	20.7
3	1877	1509	24.4
4	1897	1476	28.5

	MAXIMUM DRY DENSITY (kg/m³)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1510	25.0
OVERSIZE CORRECTED		

COMMENTS

Stantec Sample No. 2717.

PROCTOR TEST REPORT

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, MB
R3T 6A8

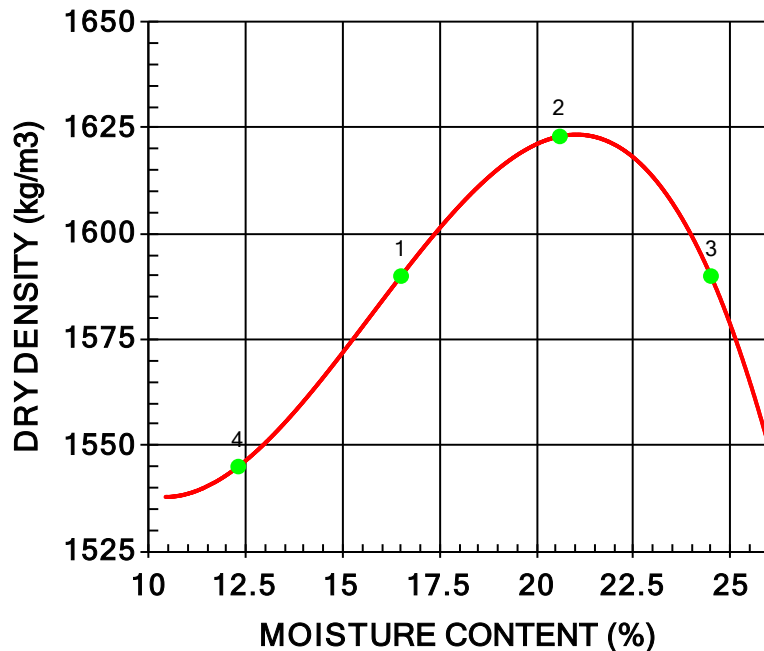
CLIENT Dillon Consulting Ltd.
C.C.

ATTN: Aaron Fleming

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029
PROCTOR NO. 4 DATE SAMPLED 2026.Jan.12 DATE RECEIVED 2026.Jan.12 DATE TESTED 2026.Jan.21

INSITU MOISTURE	30.3 %	COMPACTION STANDARD	Standard Proctor, ASTM
TESTED BY	Donald Eliazar		D698
MATERIAL IDENTIFICATION		COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
MAJOR COMPONENT	Subgrade	RAMMER TYPE	Manual
SIZE	Fat Clay (CH)	PREPARATION	Moist
DESCRIPTION		OVERSIZE CORRECTION METHOD	None
SUPPLIER	Existing Materials	RETAINED 4.75mm SCREEN	N/A %
SOURCE	BH-171, 0.8 m below grade		



TRIAL NUMBER	WET DENSITY (kg/m³)	DRY DENSITY (kg/m³)	MOISTURE CONTENT (%)
1	1852	1590	16.5
2	1957	1623	20.6
3	1980	1590	24.5
4	1735	1545	12.3

	MAXIMUM DRY DENSITY (kg/m³)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1620	21.0
OVERSIZE CORRECTED		

COMMENTS

Stantec Sample No. 2718.

PROCTOR TEST REPORT

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, MB
R3T 6A8

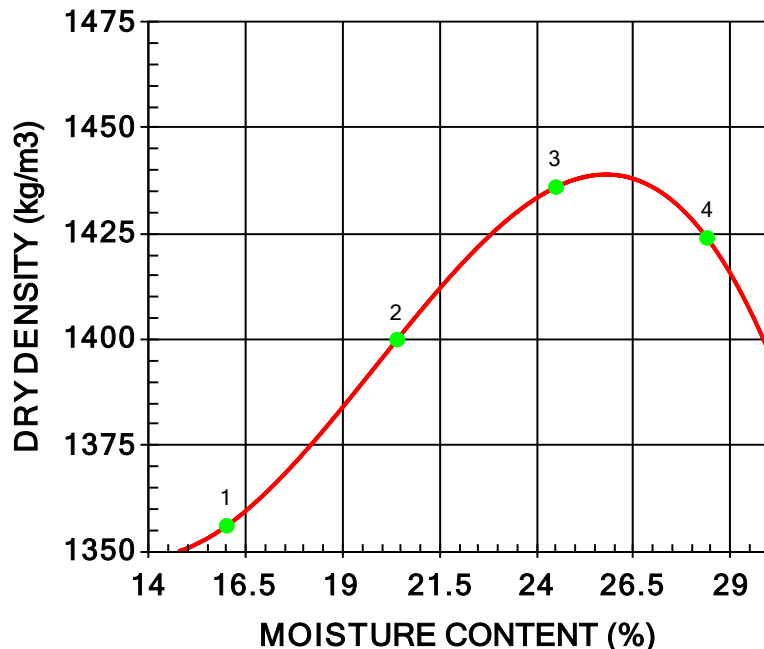
CLIENT Dillon Consulting Ltd.
C.C.

ATTN: Aaron Fleming

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029
PROCTOR NO. 5 DATE SAMPLED 2026.Jan.12 DATE RECEIVED 2026.Jan.12 DATE TESTED 2026.Jan.21

INSITU MOISTURE	37.0 %	COMPACTION STANDARD	Standard Proctor, ASTM
TESTED BY	Donald Eliazar		D698
MATERIAL IDENTIFICATION		COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
MAJOR COMPONENT	Subgrade	RAMMER TYPE	Manual
SIZE	Fat Clay (CH)	PREPARATION	Moist
DESCRIPTION		OVERSIZE CORRECTION METHOD	None
SUPPLIER	Existing Materials	RETAINED 4.75mm SCREEN	N/A %
SOURCE	BH-172, 0.8 m below grade		



TRIAL NUMBER	WET DENSITY (kg/m³)	DRY DENSITY (kg/m³)	MOISTURE CONTENT (%)
1	1573	1356	16.0
2	1686	1400	20.4
3	1788	1436	24.5
4	1828	1424	28.4

	MAXIMUM DRY DENSITY (kg/m³)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1440	26.0
OVERSIZE CORRECTED		

COMMENTS

Stantec Sample No. 2719.

PROCTOR TEST REPORT

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, MB
R3T 6A8

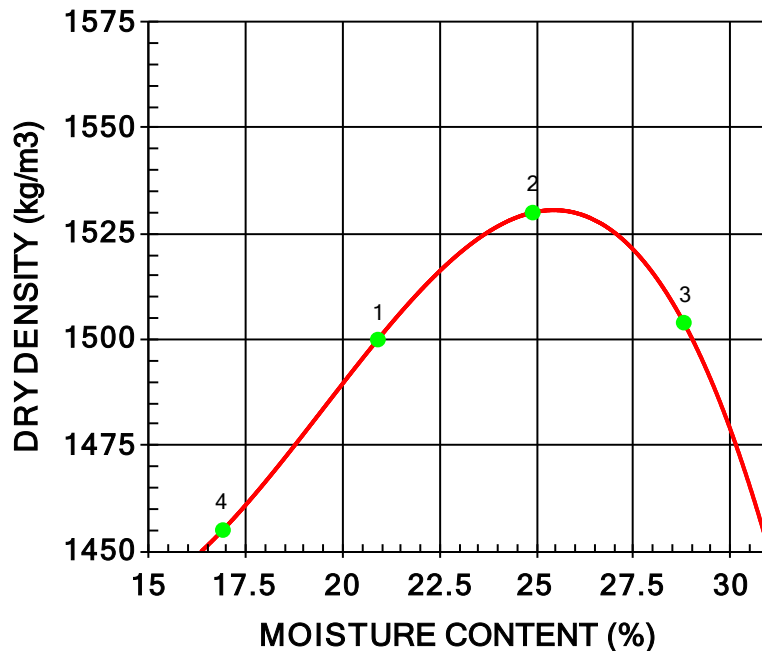
CLIENT Dillon Consulting Ltd.
C.C.

ATTN: Aaron Fleming

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029
PROCTOR NO. 6 DATE SAMPLED 2026.Jan.12 DATE RECEIVED 2026.Jan.12 DATE TESTED 2026.Jan.21

INSITU MOISTURE	30.2 %	COMPACTION STANDARD	Standard Proctor, ASTM
TESTED BY	Donald Eliazar		D698
MATERIAL IDENTIFICATION		COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
MAJOR COMPONENT	Subgrade		
SIZE	Fat Clay (CH)	RAMMER TYPE	Manual
DESCRIPTION		PREPARATION	Moist
SUPPLIER	Existing Materials	OVERSIZE CORRECTION METHOD	None
SOURCE	BH-174, 0.8 m below grade	RETAINED 4.75mm SCREEN	N/A %



TRIAL NUMBER	WET DENSITY (kg/m³)	DRY DENSITY (kg/m³)	MOISTURE CONTENT (%)
1	1814	1500	20.9
2	1911	1530	24.9
3	1937	1504	28.8
4	1701	1455	16.9

	MAXIMUM DRY DENSITY (kg/m³)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1530	25.5
OVERSIZE CORRECTED		

COMMENTS

Stantec Sample No. 2720.

PROCTOR TEST REPORT

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, MB
R3T 6A8

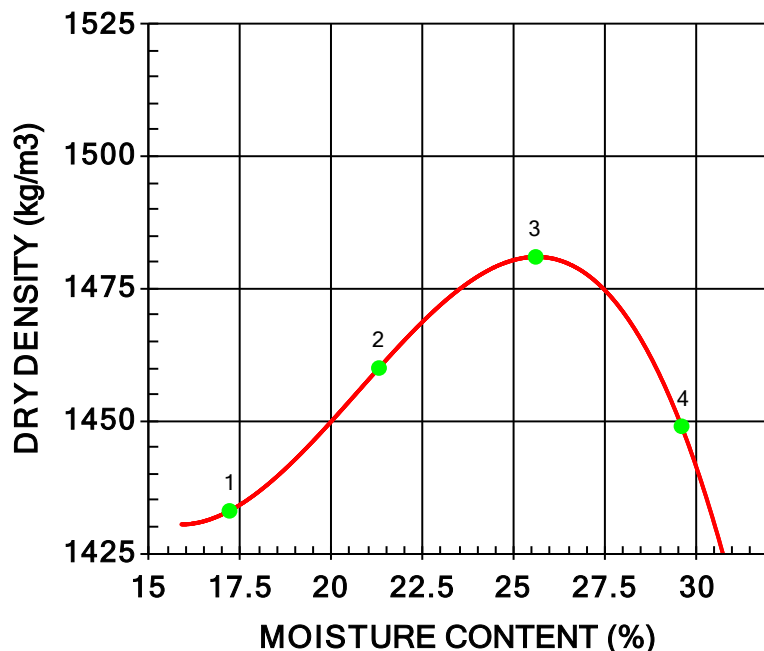
CLIENT Dillon Consulting Ltd.
C.C.

ATTN: Aaron Fleming

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029
PROCTOR NO. 7 DATE SAMPLED 2026.Jan.13 DATE RECEIVED 2026.Jan.13 DATE TESTED 2026.Jan.21

INSITU MOISTURE	36.1 %	COMPACTION STANDARD	Standard Proctor, ASTM
TESTED BY	Donald Eliazar		D698
MATERIAL IDENTIFICATION		COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
MAJOR COMPONENT	Subgrade	RAMMER TYPE	Manual
SIZE	Fat Clay (CH)	PREPARATION	Moist
DESCRIPTION		OVERSIZE CORRECTION METHOD	None
SUPPLIER	Existing Materials	RETAINED 4.75mm SCREEN	N/A %
SOURCE	BH-175, 0.8 m below grade		



TRIAL NUMBER	WET DENSITY (kg/m³)	DRY DENSITY (kg/m³)	MOISTURE CONTENT (%)
1	1679	1433	17.2
2	1771	1460	21.3
3	1860	1481	25.6
4	1878	1449	29.6

	MAXIMUM DRY DENSITY (kg/m³)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1480	25.5
OVERSIZE CORRECTED		

COMMENTS

Stantec Sample No. 2721.

PROCTOR TEST REPORT

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, MB
R3T 6A8

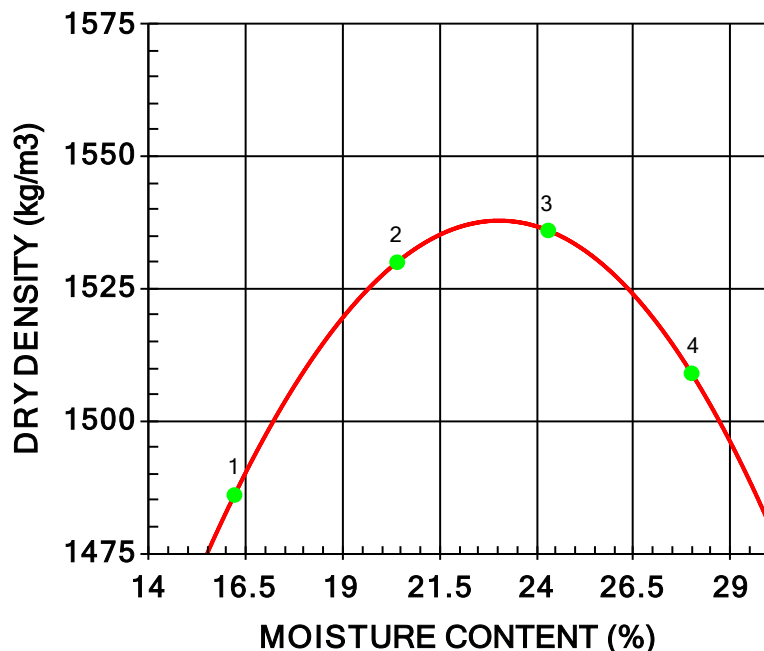
CLIENT Dillon Consulting Ltd.
C.C.

ATTN: Aaron Fleming

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029
PROCTOR NO. 8 DATE SAMPLED 2026.Jan.13 DATE RECEIVED 2026.Jan.13 DATE TESTED 2026.Jan.23

INSITU MOISTURE	22.3 %	COMPACTION STANDARD	Standard Proctor, ASTM
TESTED BY	Donald Eliazar		D698
MATERIAL IDENTIFICATION		COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
MAJOR COMPONENT	Subgrade		
SIZE	Fat Clay (CH)	RAMMER TYPE	Manual
DESCRIPTION		PREPARATION	Moist
SUPPLIER	Existing Materials	OVERSIZE CORRECTION METHOD	None
SOURCE	BH-176, 0.8 m below grade	RETAINED 4.75mm SCREEN	N/A %



TRIAL NUMBER	WET DENSITY (kg/m³)	DRY DENSITY (kg/m³)	MOISTURE CONTENT (%)
1	1727	1486	16.2
2	1842	1530	20.4
3	1909	1536	24.3
4	1932	1509	28.0

	MAXIMUM DRY DENSITY (kg/m³)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1540	23.0
OVERSIZE CORRECTED		

COMMENTS

Stantec Sample No. 2722.

PROCTOR TEST REPORT

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, MB
R3T 6A8

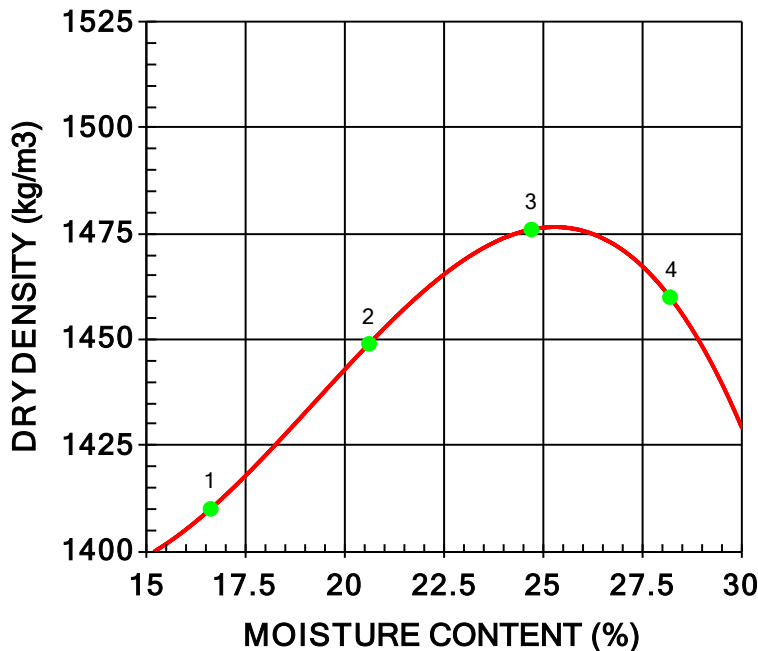
CLIENT Dillon Consulting Ltd.
C.C.

ATTN: Aaron Fleming

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029
PROCTOR NO. 9 DATE SAMPLED 2026.Jan.13 DATE RECEIVED 2026.Jan.13 DATE TESTED 2026.Jan.23

INSITU MOISTURE	31.3 %	COMPACTION STANDARD	Standard Proctor, ASTM
TESTED BY	Donald Eliazar		D698
MATERIAL IDENTIFICATION		COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
MAJOR COMPONENT	Subgrade	RAMMER TYPE	Manual
SIZE	Fat Clay (CH)	PREPARATION	Moist
DESCRIPTION		OVERSIZE CORRECTION METHOD	None
SUPPLIER	Existing Materials	RETAINED 4.75mm SCREEN	N/A %
SOURCE	BH-178, 0.8 m below grade		



TRIAL NUMBER	WET DENSITY (kg/m³)	DRY DENSITY (kg/m³)	MOISTURE CONTENT (%)
1	1644	1410	16.6
2	1748	1449	20.6
3	1840	1476	24.7
4	1872	1460	28.2

	MAXIMUM DRY DENSITY (kg/m³)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1480	25.5
OVERSIZE CORRECTED		

COMMENTS

Stantec Sample No. 2723.

PROCTOR TEST REPORT

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, MB
R3T 6A8

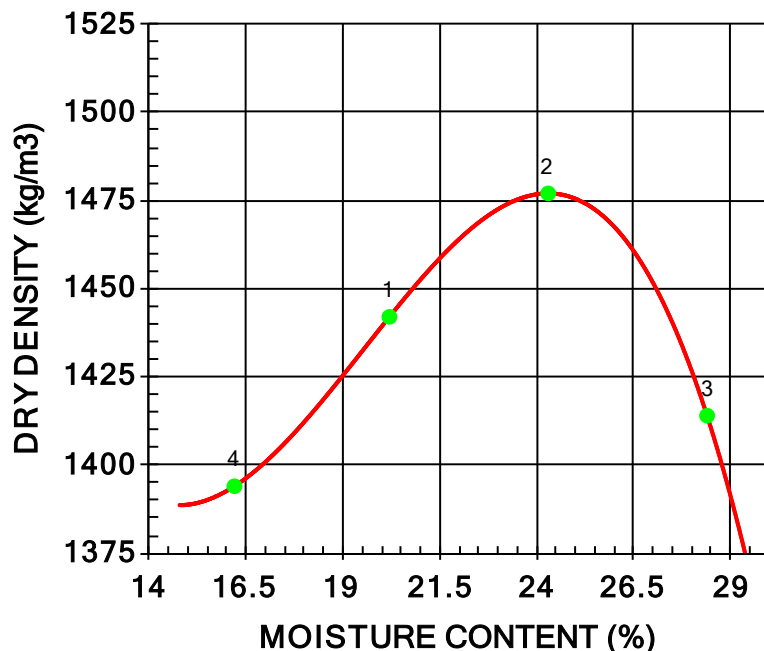
CLIENT Dillon Consulting Ltd.
C.C.

ATTN: Aaron Fleming

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029
PROCTOR NO. 10 DATE SAMPLED 2026.Jan.13 DATE RECEIVED 2026.Jan.13 DATE TESTED 2026.Jan.23

INSITU MOISTURE	33.8 %	COMPACTION STANDARD	Standard Proctor, ASTM
TESTED BY	Donald Eliazar		D698
MATERIAL IDENTIFICATION		COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
MAJOR COMPONENT	Subgrade	RAMMER TYPE	Manual
SIZE	Fat Clay (CH)	PREPARATION	Moist
DESCRIPTION		OVERSIZE CORRECTION METHOD	None
SUPPLIER	Existing Materials	RETAINED 4.75mm SCREEN	N/A %
SOURCE	BH-179, 0.8 m below grade		



TRIAL NUMBER	WET DENSITY (kg/m³)	DRY DENSITY (kg/m³)	MOISTURE CONTENT (%)
1	1733	1442	20.2
2	1836	1477	24.3
3	1815	1414	28.4
4	1620	1394	16.2

	MAXIMUM DRY DENSITY (kg/m³)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1480	24.5
OVERSIZE CORRECTED		

COMMENTS

Stantec Sample No. 2724.

PROCTOR TEST REPORT

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, MB
R3T 6A8

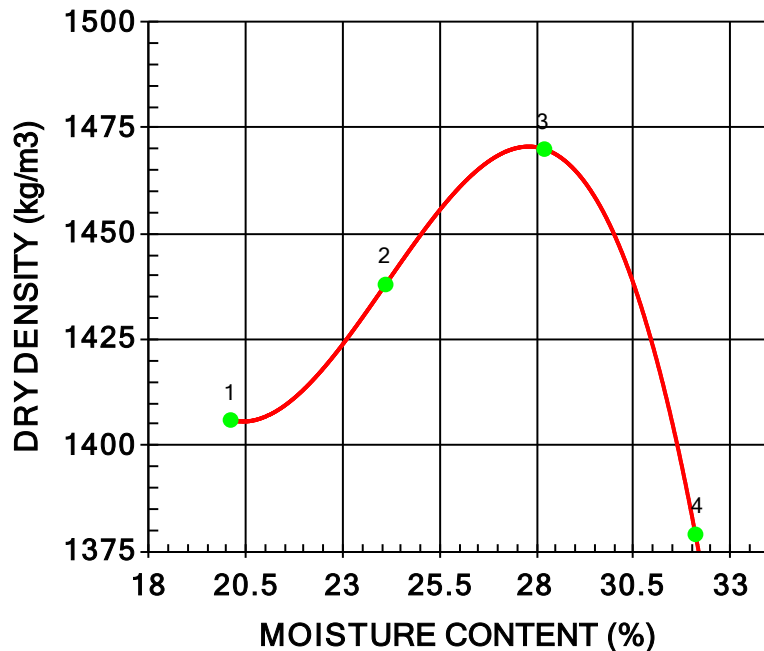
CLIENT Dillon Consulting Ltd.
C.C.

ATTN: Aaron Fleming

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029
PROCTOR NO. 11 DATE SAMPLED 2026.Jan.13 DATE RECEIVED 2026.Jan.13 DATE TESTED 2026.Jan.26

INSITU MOISTURE	38.0 %	COMPACTION STANDARD	Standard Proctor, ASTM
TESTED BY	Madison Murphy		D698
MATERIAL IDENTIFICATION		COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
MAJOR COMPONENT	Subgrade		
SIZE	Lean Clay (CL)	RAMMER TYPE	Manual
DESCRIPTION		PREPARATION	Moist
SUPPLIER	Existing Materials	OVERSIZE CORRECTION METHOD	None
SOURCE	BH-181, 0.8 m below grade	RETAINED 4.75mm SCREEN	N/A %



TRIAL NUMBER	WET DENSITY (kg/m³)	DRY DENSITY (kg/m³)	MOISTURE CONTENT (%)
1	1689	1406	20.1
2	1784	1438	24.1
3	1884	1470	28.2
4	1821	1379	32.1

	MAXIMUM DRY DENSITY (kg/m³)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1470	28.0
OVERSIZE CORRECTED		

COMMENTS

Stantec Sample No. 2725.

PROCTOR TEST REPORT

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, MB
R3T 6A8

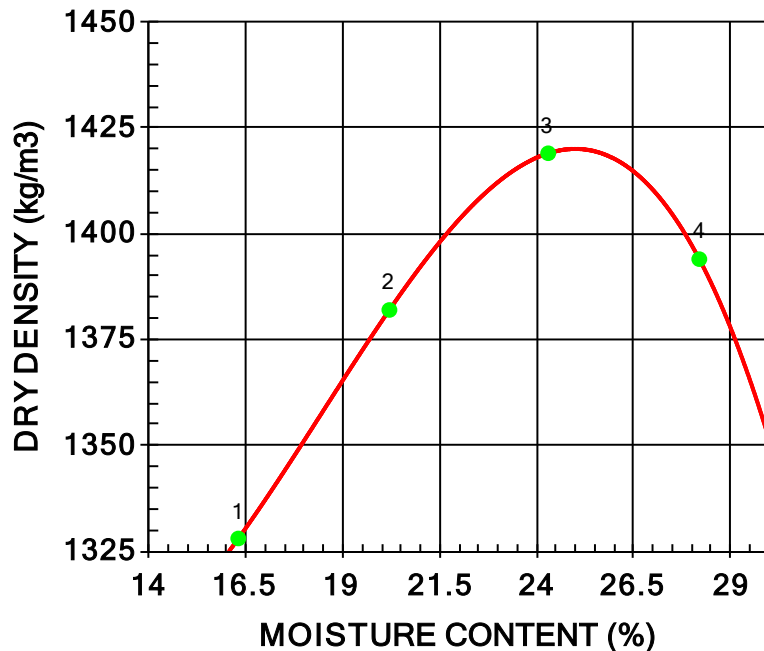
CLIENT Dillon Consulting Ltd.
C.C.

ATTN: Aaron Fleming

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029
PROCTOR NO. 12 DATE SAMPLED 2026.Jan.13 DATE RECEIVED 2026.Jan.13 DATE TESTED 2026.Jan.26

INSITU MOISTURE	37.7 %	COMPACTION STANDARD	Standard Proctor, ASTM
TESTED BY	Madison Murphy		D698
MATERIAL IDENTIFICATION		COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
MAJOR COMPONENT	Subgrade	RAMMER TYPE	Manual
SIZE	Fat Clay (CH)	PREPARATION	Moist
DESCRIPTION		OVERSIZE CORRECTION METHOD	None
SUPPLIER	Existing Materials	RETAINED 4.75mm SCREEN	N/A %
SOURCE	BH-182, 0.8 m below grade		



TRIAL NUMBER	WET DENSITY (kg/m³)	DRY DENSITY (kg/m³)	MOISTURE CONTENT (%)
1	1545	1328	16.3
2	1661	1382	20.2
3	1764	1419	24.3
4	1787	1394	28.2

	MAXIMUM DRY DENSITY (kg/m³)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1420	25.0
OVERSIZE CORRECTED		

COMMENTS

Stantec Sample No. 2726.

PROCTOR TEST REPORT

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, MB
R3T 6A8

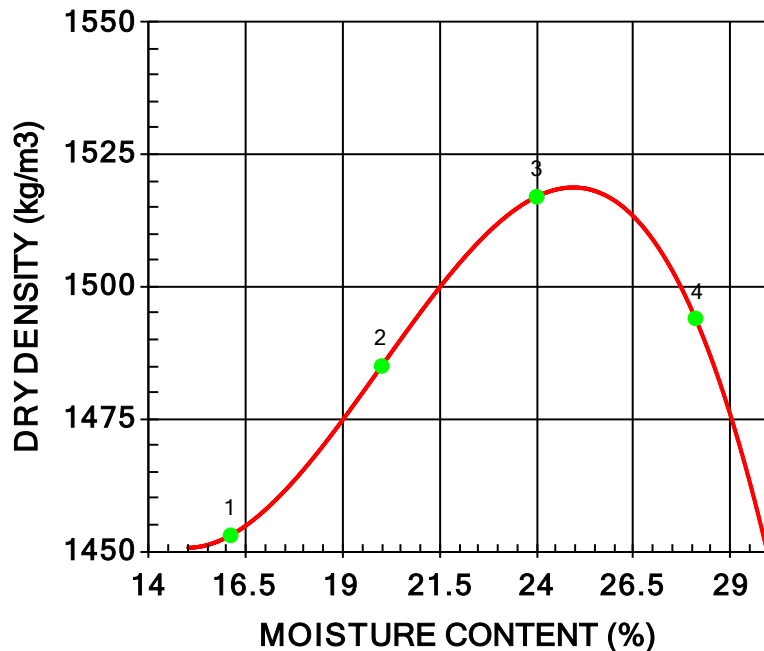
CLIENT Dillon Consulting Ltd.
C.C.

ATTN: Aaron Fleming

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029
PROCTOR NO. 13 DATE SAMPLED 2026.Jan.14 DATE RECEIVED 2026.Jan.14 DATE TESTED 2026.Jan.26

INSITU MOISTURE	31.8 %	COMPACTION STANDARD	Standard Proctor, ASTM
TESTED BY	Madison Murphy		D698
MATERIAL IDENTIFICATION		COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
MAJOR COMPONENT	Subgrade	RAMMER TYPE	Manual
SIZE	Fat Clay (CH)	PREPARATION	Moist
DESCRIPTION		OVERSIZE CORRECTION METHOD	None
SUPPLIER	Existing Materials	RETAINED 4.75mm SCREEN	N/A %
SOURCE	BH-183, 0.7 m below grade		



TRIAL NUMBER	WET DENSITY (kg/m³)	DRY DENSITY (kg/m³)	MOISTURE CONTENT (%)
1	1687	1453	16.1
2	1782	1485	20.0
3	1881	1517	24.0
4	1914	1494	28.1

	MAXIMUM DRY DENSITY (kg/m³)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1520	25.0
OVERSIZE CORRECTED		

COMMENTS

Stantec Sample No. 2727.

PROCTOR TEST REPORT

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, MB
R3T 6A8

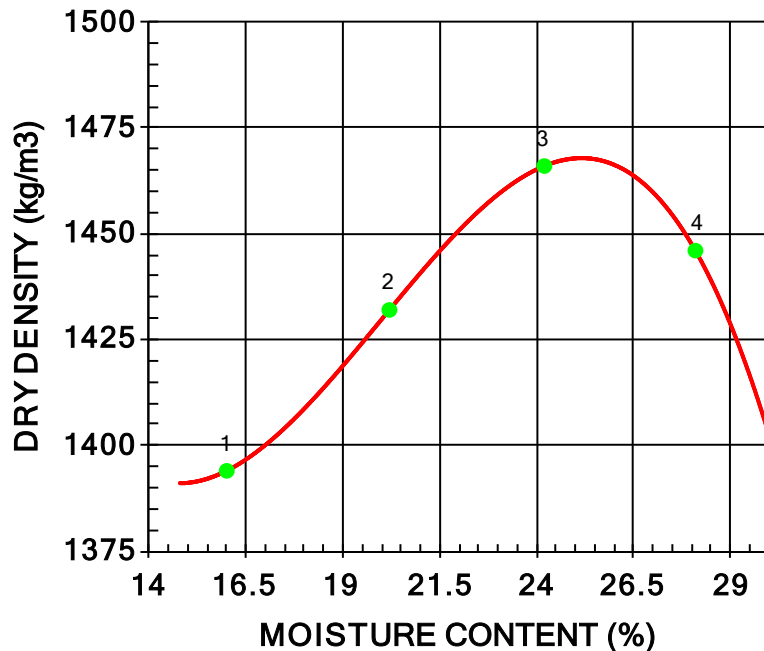
CLIENT Dillon Consulting Ltd.
C.C.

ATTN: Aaron Fleming

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029
PROCTOR NO. 14 DATE SAMPLED 2026.Jan.14 DATE RECEIVED 2026.Jan.14 DATE TESTED 2026.Jan.26

INSITU MOISTURE	35.0 %	COMPACTION STANDARD	Standard Proctor, ASTM
TESTED BY	Madison Murphy		D698
MATERIAL IDENTIFICATION		COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
MAJOR COMPONENT	Subgrade		
SIZE	Fat Clay (CH)	RAMMER TYPE	Manual
DESCRIPTION		PREPARATION	Moist
SUPPLIER	Existing Materials	OVERSIZE CORRECTION METHOD	None
SOURCE	BH-185, 0.7 m below grade	RETAINED 4.75mm SCREEN	N/A %



TRIAL NUMBER	WET DENSITY (kg/m³)	DRY DENSITY (kg/m³)	MOISTURE CONTENT (%)
1	1617	1394	16.0
2	1721	1432	20.2
3	1821	1466	24.2
4	1852	1446	28.1

	MAXIMUM DRY DENSITY (kg/m³)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1470	25.0
OVERSIZE CORRECTED		

COMMENTS

Stantec Sample No. 2728.

PROCTOR TEST REPORT

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, MB
R3T 6A8

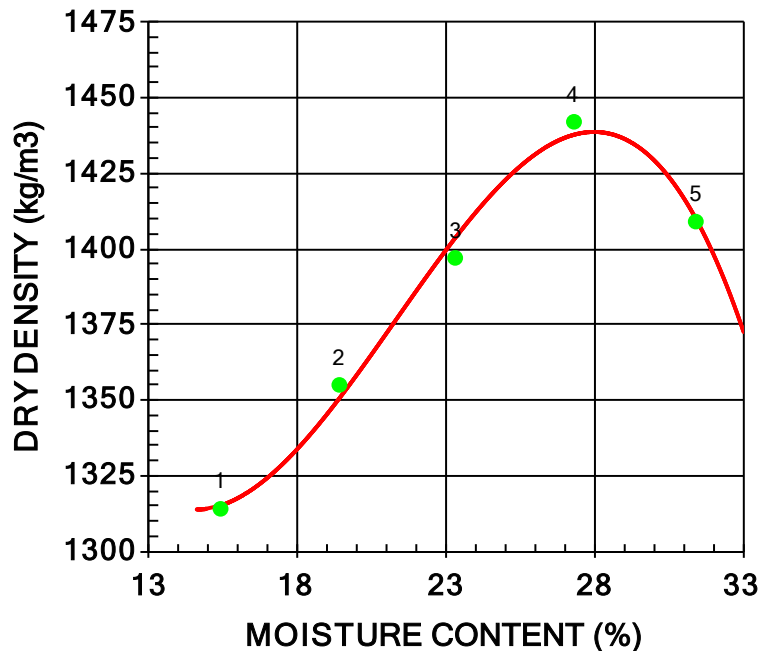
CLIENT Dillon Consulting Ltd.
C.C.

ATTN: Aaron Fleming

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029
PROCTOR NO. 15 DATE SAMPLED 2026.Jan.14 DATE RECEIVED 2026.Jan.14 DATE TESTED 2026.Jan.27

INSITU MOISTURE	36.5 %	COMPACTION STANDARD	Standard Proctor, ASTM
TESTED BY	Madison Murphy		D698
MATERIAL IDENTIFICATION		COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
MAJOR COMPONENT	Subgrade	RAMMER TYPE	Manual
SIZE	Fat Clay (CH)	PREPARATION	Moist
DESCRIPTION		OVERSIZE CORRECTION METHOD	None
SUPPLIER	Existing Materials	RETAINED 4.75mm SCREEN	N/A %
SOURCE	BH-186, 0.8 m below grade		



TRIAL NUMBER	WET DENSITY (kg/m³)	DRY DENSITY (kg/m³)	MOISTURE CONTENT (%)
1	1516	1314	15.4
2	1618	1355	19.4
3	1723	1397	23.3
4	1836	1442	27.3
5	1851	1409	31.4

	MAXIMUM DRY DENSITY (kg/m³)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1440	28.0
OVERSIZE CORRECTED		

COMMENTS

Stantec Sample No. 2729.

PROCTOR TEST REPORT

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, MB
R3T 6A8

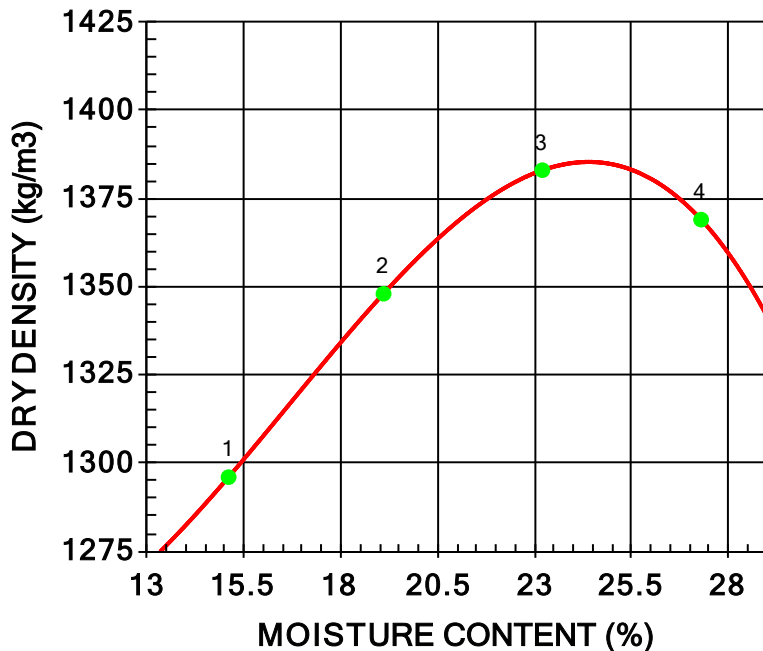
CLIENT Dillon Consulting Ltd.
C.C.

ATTN: Aaron Fleming

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029
PROCTOR NO. 16 DATE SAMPLED 2026.Jan.14 DATE RECEIVED 2026.Jan.14 DATE TESTED 2026.Jan.27

INSITU MOISTURE	31.5 %	COMPACTION STANDARD	Standard Proctor, ASTM
TESTED BY	Madison Murphy		D698
MATERIAL IDENTIFICATION		COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
MAJOR COMPONENT	Subgrade	RAMMER TYPE	Manual
SIZE	Fat Clay (CH)	PREPARATION	Moist
DESCRIPTION		OVERSIZE CORRECTION METHOD	None
SUPPLIER	Existing Materials	RETAINED 4.75mm SCREEN	N/A %
SOURCE	BH-187, 0.8 m below grade		



TRIAL NUMBER	WET DENSITY (kg/m³)	DRY DENSITY (kg/m³)	MOISTURE CONTENT (%)
1	1492	1296	15.1
2	1606	1348	19.1
3	1704	1383	23.2
4	1743	1369	27.3

	MAXIMUM DRY DENSITY (kg/m³)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1380	24.5
OVERSIZE CORRECTED		

COMMENTS

Stantec Sample No. 2730.

PROCTOR TEST REPORT

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, MB
R3T 6A8

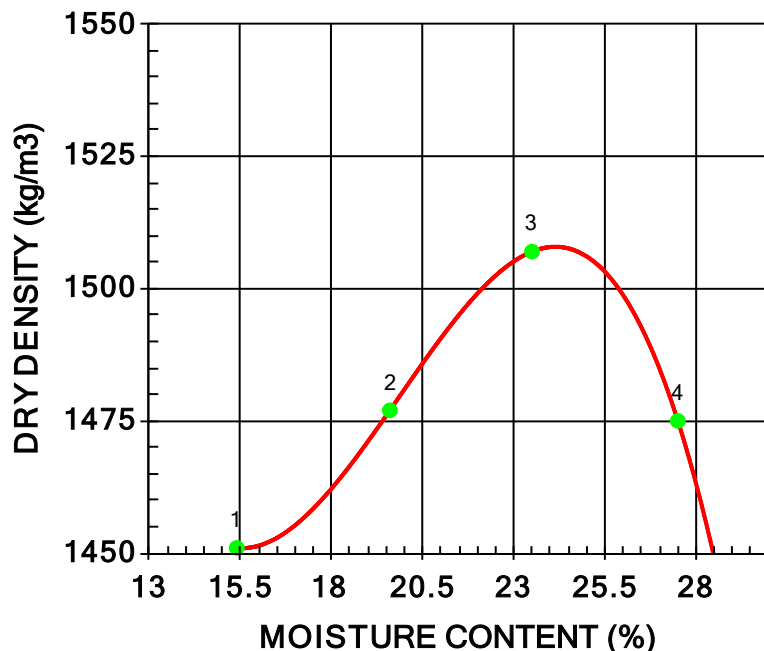
CLIENT Dillon Consulting Ltd.
C.C.

ATTN: Aaron Fleming

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029
PROCTOR NO. 17 DATE SAMPLED 2026.Jan.14 DATE RECEIVED 2026.Jan.14 DATE TESTED 2026.Jan.28

INSITU MOISTURE	28.3 %	COMPACTION STANDARD	Standard Proctor, ASTM
TESTED BY	Madison Murphy		D698
MATERIAL IDENTIFICATION		COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
MAJOR COMPONENT	Subgrade		
SIZE	Fat Clay (CH)	RAMMER TYPE	Automatic
DESCRIPTION		PREPARATION	Moist
SUPPLIER	Existing Materials	OVERSIZE CORRECTION METHOD	None
SOURCE	BH-188, 0.8 m below grade	RETAINED 4.75mm SCREEN	N/A %



TRIAL NUMBER	WET DENSITY (kg/m³)	DRY DENSITY (kg/m³)	MOISTURE CONTENT (%)
1	1675	1451	15.4
2	1767	1477	19.6
3	1861	1507	23.5
4	1880	1475	27.5

	MAXIMUM DRY DENSITY (kg/m³)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1510	24.0
OVERSIZE CORRECTED		

COMMENTS

Stantec Sample No. 2731.

PROCTOR TEST REPORT

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, MB
R3T 6A8

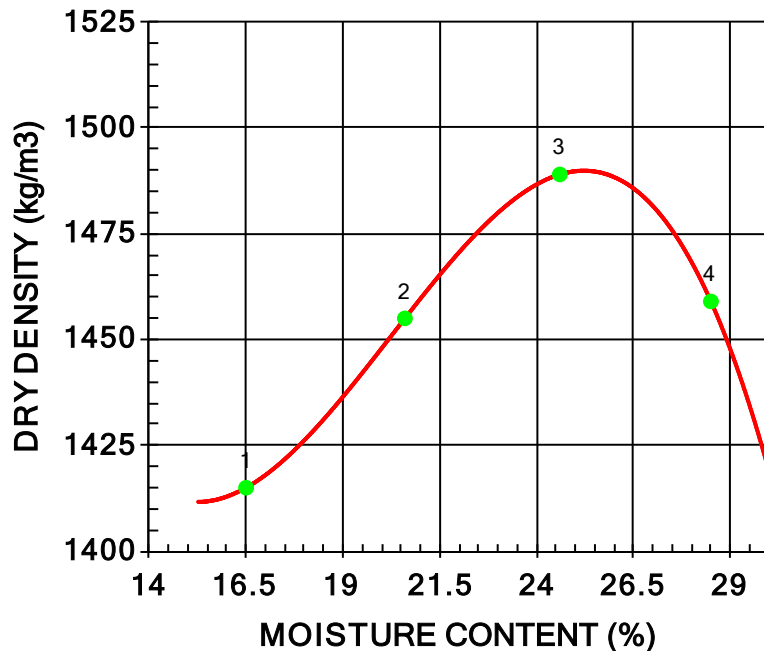
CLIENT Dillon Consulting Ltd.
C.C.

ATTN: Aaron Fleming

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029
PROCTOR NO. 18 DATE SAMPLED 2026.Jan.14 DATE RECEIVED 2026.Jan.14 DATE TESTED 2026.Jan.28

INSITU MOISTURE	32.4 %	COMPACTION STANDARD	Standard Proctor, ASTM
TESTED BY	Madison Murphy		D698
MATERIAL IDENTIFICATION		COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
MAJOR COMPONENT	Subgrade	RAMMER TYPE	Automatic
SIZE	Fat Clay (CH)	PREPARATION	Moist
DESCRIPTION		OVERSIZE CORRECTION METHOD	None
SUPPLIER	Existing Materials	RETAINED 4.75mm SCREEN	N/A %
SOURCE	BH-189, 0.8 m below grade		



TRIAL NUMBER	WET DENSITY (kg/m³)	DRY DENSITY (kg/m³)	MOISTURE CONTENT (%)
1	1648	1415	16.5
2	1755	1455	20.6
3	1855	1489	24.6
4	1875	1459	28.5

	MAXIMUM DRY DENSITY (kg/m³)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1490	25.0
OVERSIZE CORRECTED		

COMMENTS

Stantec Sample No. 2732.

PROCTOR TEST REPORT

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, MB
R3T 6A8

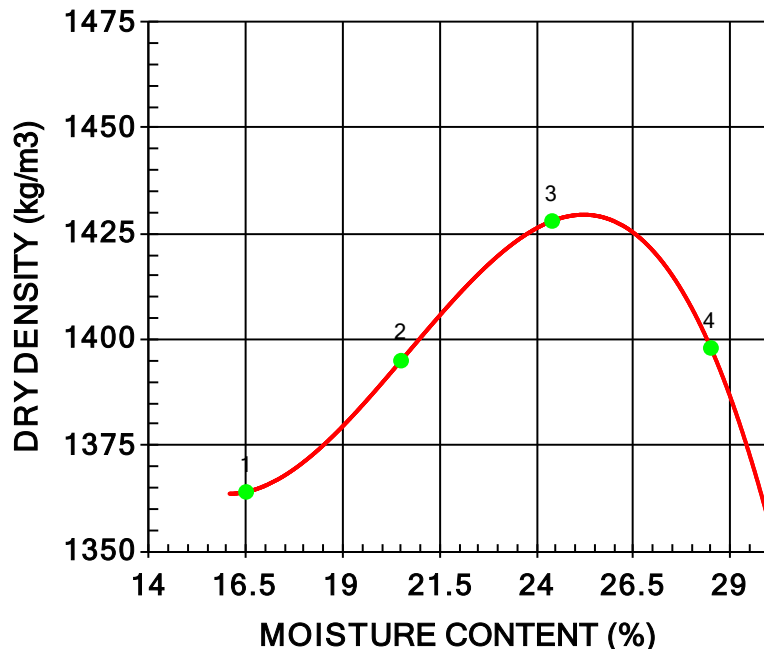
CLIENT Dillon Consulting Ltd.
C.C.

ATTN: Aaron Fleming

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029
PROCTOR NO. 19 DATE SAMPLED 2026.Jan.14 DATE RECEIVED 2026.Jan.14 DATE TESTED 2026.Jan.28

INSITU MOISTURE	28.3 %	COMPACTION STANDARD	Standard Proctor, ASTM
TESTED BY	Madison Murphy		D698
MATERIAL IDENTIFICATION		COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
MAJOR COMPONENT	Subgrade	RAMMER TYPE	Automatic
SIZE	Fat Clay (CH)	PREPARATION	Moist
DESCRIPTION		OVERSIZE CORRECTION METHOD	None
SUPPLIER	Existing Materials	RETAINED 4.75mm SCREEN	N/A %
SOURCE	BH-191, 0.8 m below grade		



TRIAL NUMBER	WET DENSITY (kg/m³)	DRY DENSITY (kg/m³)	MOISTURE CONTENT (%)
1	1589	1364	16.5
2	1681	1395	20.5
3	1776	1428	24.4
4	1797	1398	28.5

	MAXIMUM DRY DENSITY (kg/m³)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1430	25.0
OVERSIZE CORRECTED		

COMMENTS

Stantec Sample No. 2733.

PROCTOR TEST REPORT

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, MB
R3T 6A8

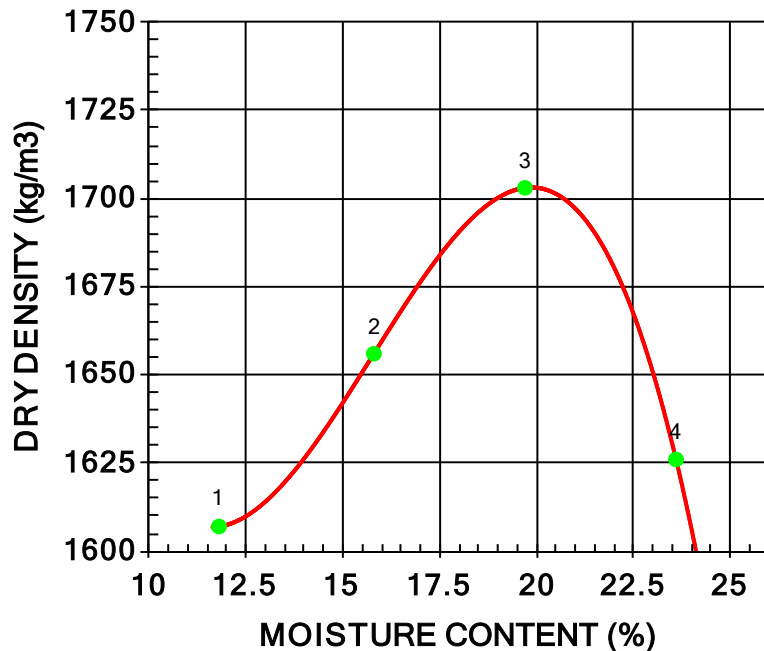
CLIENT Dillon Consulting Ltd.
C.C.

ATTN: Aaron Fleming

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029
PROCTOR NO. 20 DATE SAMPLED 2026.Jan.15 DATE RECEIVED 2026.Jan.15 DATE TESTED 2026.Jan.29

INSITU MOISTURE	26.6 %	COMPACTION STANDARD	Standard Proctor, ASTM
TESTED BY	Madison Murphy		D698
MATERIAL IDENTIFICATION		COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
MAJOR COMPONENT	Subgrade	RAMMER TYPE	Automatic
SIZE	Fat Clay (CH)	PREPARATION	Moist
DESCRIPTION		OVERSIZE CORRECTION METHOD	None
SUPPLIER	Existing Materials	RETAINED 4.75mm SCREEN	N/A %
SOURCE	BH-192, 0.7 m below grade		



TRIAL NUMBER	WET DENSITY (kg/m³)	DRY DENSITY (kg/m³)	MOISTURE CONTENT (%)
1	1797	1607	11.8
2	1918	1656	15.8
3	2039	1703	19.7
4	2010	1626	23.6

	MAXIMUM DRY DENSITY (kg/m³)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1700	20.0
OVERSIZE CORRECTED		

COMMENTS

Stantec Sample No. 2734.

PROCTOR TEST REPORT

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, MB
R3T 6A8

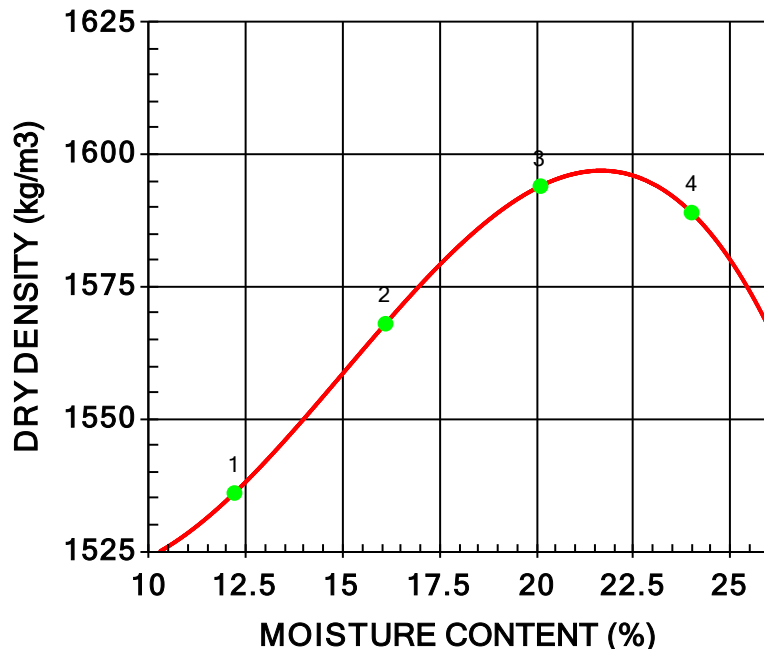
CLIENT Dillon Consulting Ltd.
C.C.

ATTN: Aaron Fleming

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029
PROCTOR NO. 21 DATE SAMPLED 2026.Jan.15 DATE RECEIVED 2026.Jan.15 DATE TESTED 2026.Jan.28

INSITU MOISTURE	31.6 %	COMPACTION STANDARD	Standard Proctor, ASTM
TESTED BY	Madison Murphy		D698
MATERIAL IDENTIFICATION		COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
MAJOR COMPONENT	Subgrade	RAMMER TYPE	Automatic
SIZE	Lean Clay (CL)	PREPARATION	Moist
DESCRIPTION		OVERSIZE CORRECTION METHOD	None
SUPPLIER	Existing Materials	RETAINED 4.75mm SCREEN	N/A %
SOURCE	BH-193, 0.8 m below grade		



TRIAL NUMBER	WET DENSITY (kg/m³)	DRY DENSITY (kg/m³)	MOISTURE CONTENT (%)
1	1723	1536	12.2
2	1820	1568	16.1
3	1914	1594	20.1
4	1970	1589	24.0

	MAXIMUM DRY DENSITY (kg/m³)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1600	21.5
OVERSIZE CORRECTED		

COMMENTS

Stantec Sample No. 2735.

PROCTOR TEST REPORT

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, MB
R3T 6A8

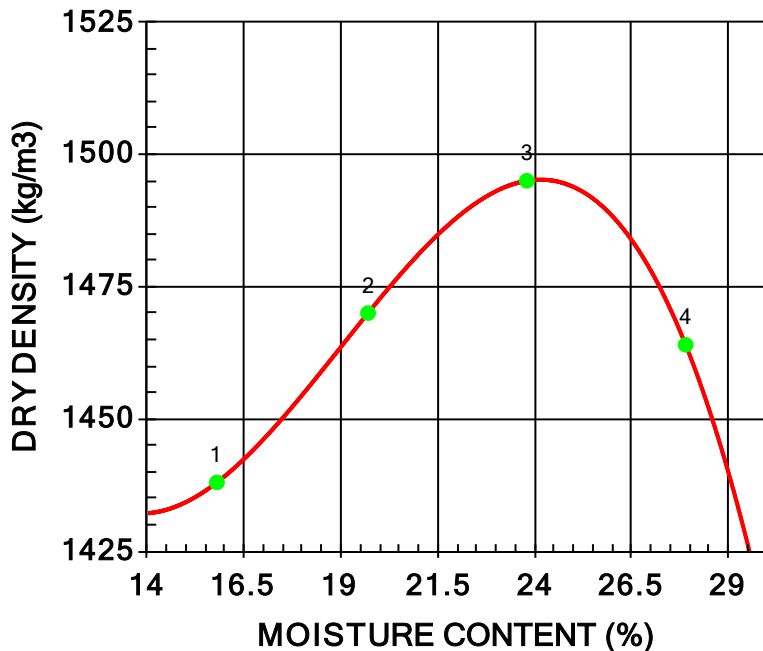
CLIENT Dillon Consulting Ltd.
C.C.

ATTN: Aaron Fleming

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029
PROCTOR NO. 22 DATE SAMPLED 2026.Jan.15 DATE RECEIVED 2026.Jan.15 DATE TESTED 2026.Jan.28

INSITU MOISTURE	32.1 %	COMPACTION STANDARD	Standard Proctor, ASTM
TESTED BY	Madison Murphy		D698
MATERIAL IDENTIFICATION		COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
MAJOR COMPONENT	Subgrade		
SIZE	Fat Clay (CH)	RAMMER TYPE	Automatic
DESCRIPTION		PREPARATION	Moist
SUPPLIER	Existing Materials	OVERSIZE CORRECTION METHOD	None
SOURCE	BH-194, 0.7 m below grade	RETAINED 4.75mm SCREEN	N/A %



TRIAL NUMBER	WET DENSITY (kg/m³)	DRY DENSITY (kg/m³)	MOISTURE CONTENT (%)
1	1665	1438	15.8
2	1759	1470	19.7
3	1851	1495	23.8
4	1872	1464	27.9

	MAXIMUM DRY DENSITY (kg/m³)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1500	24.0
OVERSIZE CORRECTED		

COMMENTS

Stantec Sample No. 2736.

PROCTOR TEST REPORT

TO Dillon Consulting Ltd.
300 - 100 Innovation Dr.
Winnipeg, MB
R3T 6A8

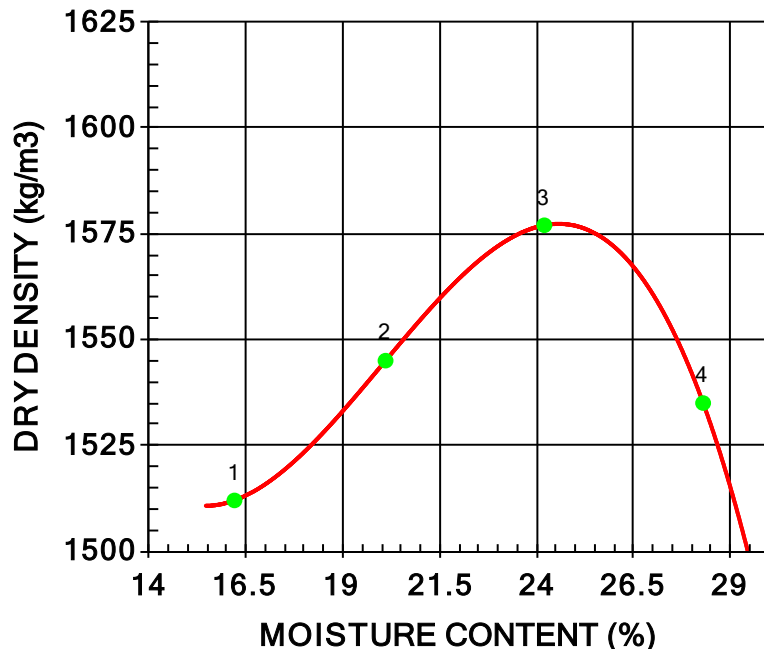
CLIENT Dillon Consulting Ltd.
C.C.

ATTN: Aaron Fleming

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029
PROCTOR NO. 23 DATE SAMPLED 2026.Jan.15 DATE RECEIVED 2026.Jan.15 DATE TESTED 2026.Jan.28

INSITU MOISTURE	28.3 %	COMPACTION STANDARD	Standard Proctor, ASTM
TESTED BY	Madison Murphy		D698
MATERIAL IDENTIFICATION		COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
MAJOR COMPONENT	Subgrade	RAMMER TYPE	Automatic
SIZE	Fat Clay (CH)	PREPARATION	Moist
DESCRIPTION		OVERSIZE CORRECTION METHOD	None
SUPPLIER	Existing Materials	RETAINED 4.75mm SCREEN	N/A %
SOURCE	BH-196, 0.7 m below grade		



TRIAL NUMBER	WET DENSITY (kg/m³)	DRY DENSITY (kg/m³)	MOISTURE CONTENT (%)
1	1757	1512	16.2
2	1856	1545	20.1
3	1959	1577	24.2
4	1970	1535	28.3

	MAXIMUM DRY DENSITY (kg/m³)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1580	24.5
OVERSIZE CORRECTED		

COMMENTS

Stantec Sample No. 2737.

ASTM D1883 - CALIFORNIA BEARING RATIO (CBR) OF LABORATORY-COMPACTED SOILS

TO Dillon Consulting Ltd.
300 - 100 Innovation Drive
Winnipeg, Manitoba
R3T 6A8

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 1

DATE SAMPLED: 2026.Jan.12

DATE RECEIVED: 2026.Jan.12

DATE TESTED: 2026.Jan.23

SAMPLED BY: Stantec Consulting Ltd.

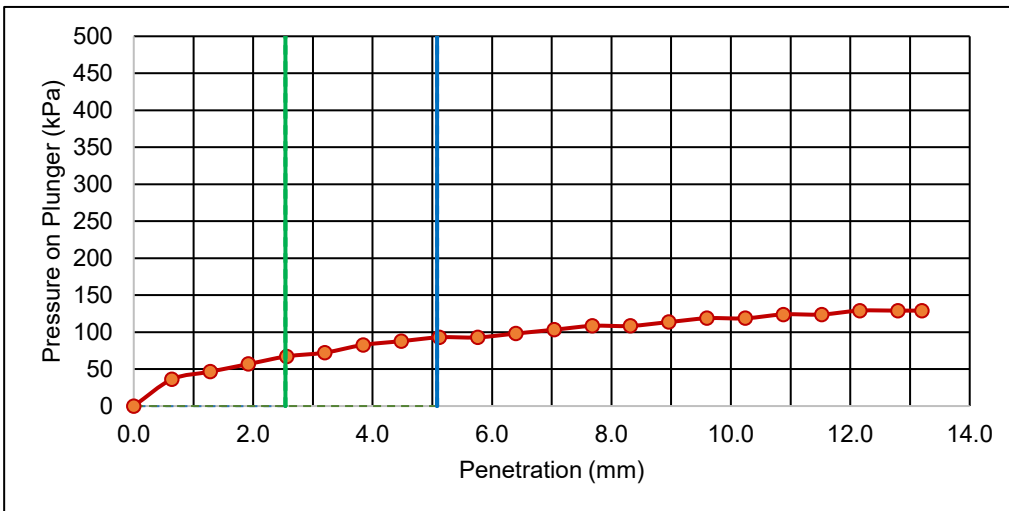
SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

MATERIAL USE	Subgrade	SUPPLIER	Existing Material
MAX. NOMINAL SIZE	< 4.75 mm	SOURCE	Bore Hole
MATERIAL TYPE	Fat Clay (CH)	SAMPLE LOCATION	BH-167, 0.8 m
SPECIFICATION ID	Not Applicable	STANTEC SAMPLE NO.	2715

IMMERSION PERIOD	96 ± 2 hr	TARGET MAX. DRY DENSITY	1380 kg/m ³
CONDITION OF SAMPLE	Soaked	TARGET OPTIMUM MOISTURE	24.0 %
SURCHARGE MASS	4.54 kg		
+19 mm OVERSIZE	0 %	AS-COMPACTED DRY DENSITY	1299 kg/m ³
SWELL OF SAMPLE	9.53 %	AS-COMPACTED MOISTURE	25.2 %
POST-TEST MOISTURE	47.4 %	AS-COMPACTED % COMPACTION	94 %




**CBR VALUE AT 2.54 mm
PENETRATION**
1.0

**CBR VALUE AT 5.08 mm
PENETRATION**
0.9

COMMENTS

Sample prepared to 95% of the maximum dry density at the optimum moisture content as determined from ASTM D698.

REPORT DATE 2026.Jan.29

REVIEWED BY  Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D1883 - CALIFORNIA BEARING RATIO (CBR) OF LABORATORY-COMPACTED SOILS

TO Dillon Consulting Ltd.
300 - 100 Innovation Drive
Winnipeg, Manitoba
R3T 6A8

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 2

DATE SAMPLED: 2026.Jan.12

DATE RECEIVED: 2026.Jan.12

DATE TESTED: 2026.Jan.23

SAMPLED BY: Stantec Consulting Ltd.

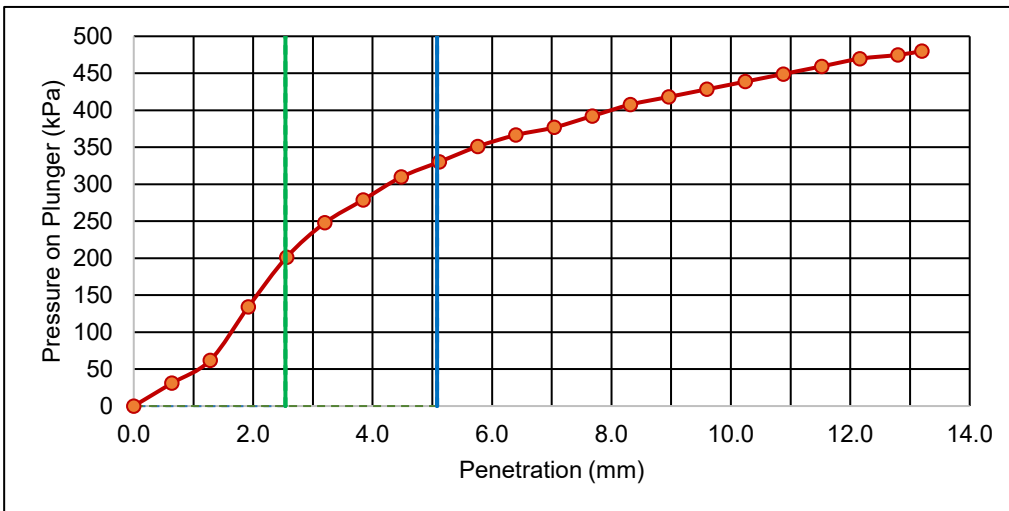
SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

MATERIAL USE	Subgrade	SUPPLIER	Existing Material
MAX. NOMINAL SIZE	< 4.75 mm	SOURCE	Bore Hole
MATERIAL TYPE	Lean Clay (CL)	SAMPLE LOCATION	BH-168, 0.8 m
SPECIFICATION ID	Not Applicable	STANTEC SAMPLE NO.	2716

IMMERSION PERIOD	96 ± 2 hr	TARGET MAX. DRY DENSITY	1620 kg/m ³
CONDITION OF SAMPLE	Soaked	TARGET OPTIMUM MOISTURE	21.5 %
SURCHARGE MASS	4.54 kg		
+19 mm OVERSIZE	0 %	AS-COMPACTED DRY DENSITY	1545 kg/m ³
SWELL OF SAMPLE	3.06 %	AS-COMPACTED MOISTURE	21.0 %
POST-TEST MOISTURE	25.8 %	AS-COMPACTED % COMPACTION	95 %



**CBR VALUE AT 2.54 mm
PENETRATION**
2.9


**CBR VALUE AT 5.08 mm
PENETRATION**
3.3

COMMENTS

Sample prepared to 95% of the maximum dry density at the optimum moisture content as determined from ASTM D698.

As per ASTM D1883 10.2, the sample should be re-run to confirm the higher CBR value at 5.08 mm.

REPORT DATE 2026.Jan.29

REVIEWED BY  Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D1883 - CALIFORNIA BEARING RATIO (CBR) OF LABORATORY-COMPACTED SOILS

TO Dillon Consulting Ltd.
300 - 100 Innovation Drive
Winnipeg, Manitoba
R3T 6A8

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 3

DATE SAMPLED: 2026.Jan.12

DATE RECEIVED: 2026.Jan.12

DATE TESTED: 2026.Jan.23

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

MATERIAL USE Subgrade
MAX. NOMINAL SIZE < 4.75 mm
MATERIAL TYPE Fat Clay (CH)
SPECIFICATION ID Not Applicable

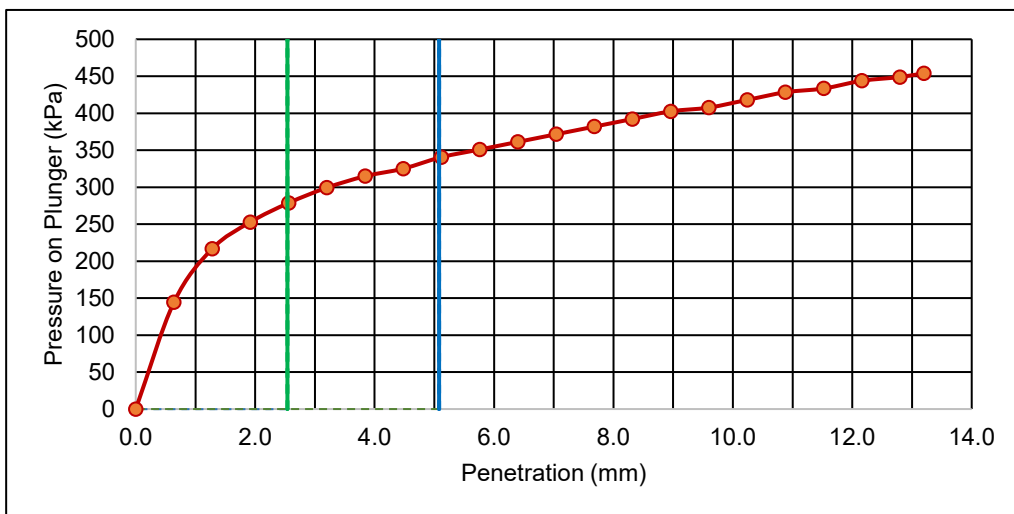
SUPPLIER Existing Material
SOURCE Bore Hole
SAMPLE LOCATION BH-170, 0.8 m
STANTEC SAMPLE NO. 2717

IMMERSION PERIOD 96 ± 2 hr
CONDITION OF SAMPLE Soaked
SURCHARGE MASS 4.54 kg

TARGET MAX. DRY DENSITY 1510 kg/m³
TARGET OPTIMUM MOISTURE 25.0 %

+19 mm OVERSIZE 0 %
SWELL OF SAMPLE 2.91 %
POST-TEST MOISTURE 28.6 %

AS-COMPACTED DRY DENSITY 1432 kg/m³
AS-COMPACTED MOISTURE 25.2 %
AS-COMPACTED % COMPACTION 95 %




**CBR VALUE AT 2.54 mm
PENETRATION**
4.0

**CBR VALUE AT 5.08 mm
PENETRATION**
3.4

COMMENTS

Sample prepared to 95% of the maximum dry density at the optimum moisture content as determined from ASTM D698.

REPORT DATE 2026.Jan.29

REVIEWED BY  Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D1883 - CALIFORNIA BEARING RATIO (CBR) OF LABORATORY-COMPACTED SOILS

TO Dillon Consulting Ltd.
300 - 100 Innovation Drive
Winnipeg, Manitoba
R3T 6A8

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 4

DATE SAMPLED: 2026.Jan.12

DATE RECEIVED: 2026.Jan.12

DATE TESTED: 2026.Jan.23

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

MATERIAL USE Subgrade
MAX. NOMINAL SIZE < 4.75 mm
MATERIAL TYPE Fat Clay (CH)
SPECIFICATION ID Not Applicable

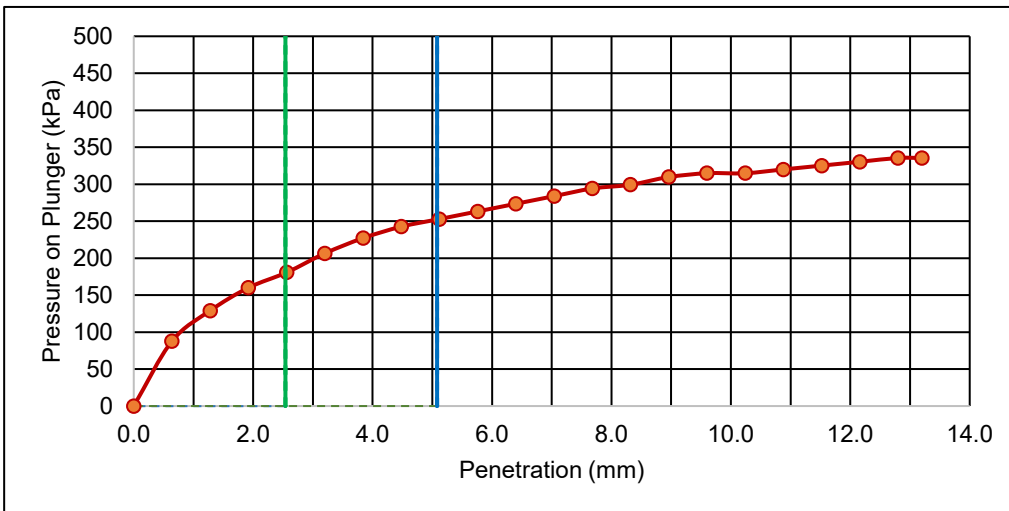
SUPPLIER Existing Material
SOURCE Bore Hole
SAMPLE LOCATION BH-171, 0.8 m
STANTEC SAMPLE NO. 2718

IMMERSION PERIOD 96 ± 2 hr
CONDITION OF SAMPLE Soaked
SURCHARGE MASS 4.54 kg

TARGET MAX. DRY DENSITY 1620 kg/m³
TARGET OPTIMUM MOISTURE 21.0 %

+19 mm OVERSIZE 0 %
SWELL OF SAMPLE 3.39 %
POST-TEST MOISTURE 26.5 %

AS-COMPACTED DRY DENSITY 1528 kg/m³
AS-COMPACTED MOISTURE 21.9 %
AS-COMPACTED % COMPACTION 94 %




**CBR VALUE AT 2.54 mm
PENETRATION**
2.6

**CBR VALUE AT 5.08 mm
PENETRATION**
2.5

COMMENTS

Sample prepared to 95% of the maximum dry density at the optimum moisture content as determined from ASTM D698.

REPORT DATE 2026.Jan.29

REVIEWED BY  Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D1883 - CALIFORNIA BEARING RATIO (CBR) OF LABORATORY-COMPACTED SOILS

TO Dillon Consulting Ltd.
300 - 100 Innovation Drive
Winnipeg, Manitoba
R3T 6A8

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 5

DATE SAMPLED: 2026.Jan.12

DATE RECEIVED: 2026.Jan.12

DATE TESTED: 2026.Jan.23

SAMPLED BY: Stantec Consulting Ltd.

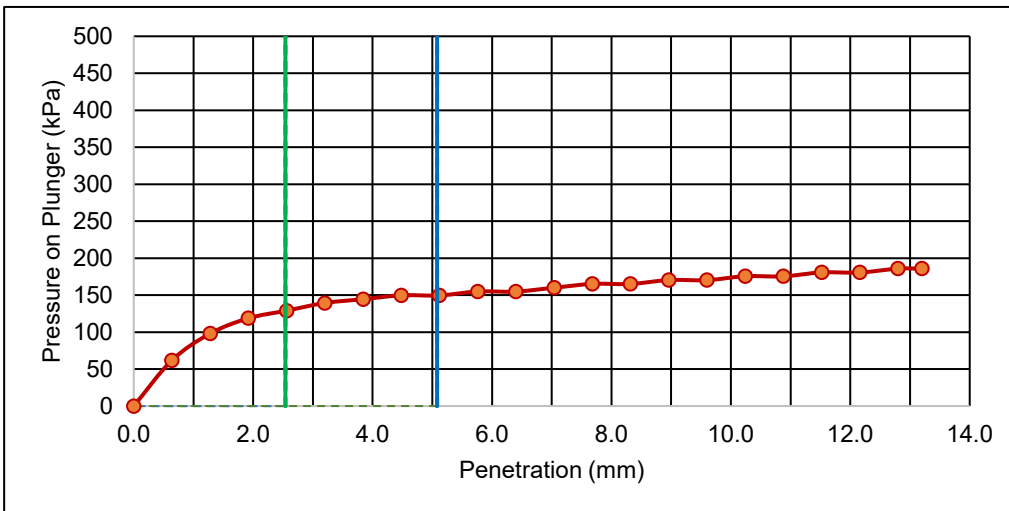
SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

MATERIAL USE	Subgrade	SUPPLIER	Existing Material
MAX. NOMINAL SIZE	< 4.75 mm	SOURCE	Bore Hole
MATERIAL TYPE	Fat Clay (CH)	SAMPLE LOCATION	BH-172, 0.8 m
SPECIFICATION ID	Not Applicable	STANTEC SAMPLE NO.	2719

IMMERSION PERIOD	96 ± 2 hr	TARGET MAX. DRY DENSITY	1440 kg/m ³
CONDITION OF SAMPLE	Soaked	TARGET OPTIMUM MOISTURE	26.0 %
SURCHARGE MASS	4.54 kg		
+19 mm OVERSIZE	0 %	AS-COMPACTED DRY DENSITY	1359 kg/m ³
SWELL OF SAMPLE	5.89 %	AS-COMPACTED MOISTURE	26.9 %
POST-TEST MOISTURE	33.1 %	AS-COMPACTED % COMPACTION	94 %




**CBR VALUE AT 2.54 mm
PENETRATION**
1.9

**CBR VALUE AT 5.08 mm
PENETRATION**
1.5

COMMENTS

Sample prepared to 95% of the maximum dry density at the optimum moisture content as determined from ASTM D698.

REPORT DATE 2026.Jan.29

REVIEWED BY 
Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D1883 - CALIFORNIA BEARING RATIO (CBR) OF LABORATORY-COMPACTED SOILS

TO Dillon Consulting Ltd.
300 - 100 Innovation Drive
Winnipeg, Manitoba
R3T 6A8

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 6

DATE SAMPLED: 2026.Jan.12

DATE RECEIVED: 2026.Jan.12

DATE TESTED: 2026.Jan.23

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

MATERIAL USE Subgrade
MAX. NOMINAL SIZE < 4.75 mm
MATERIAL TYPE Fat Clay (CH)
SPECIFICATION ID Not Applicable

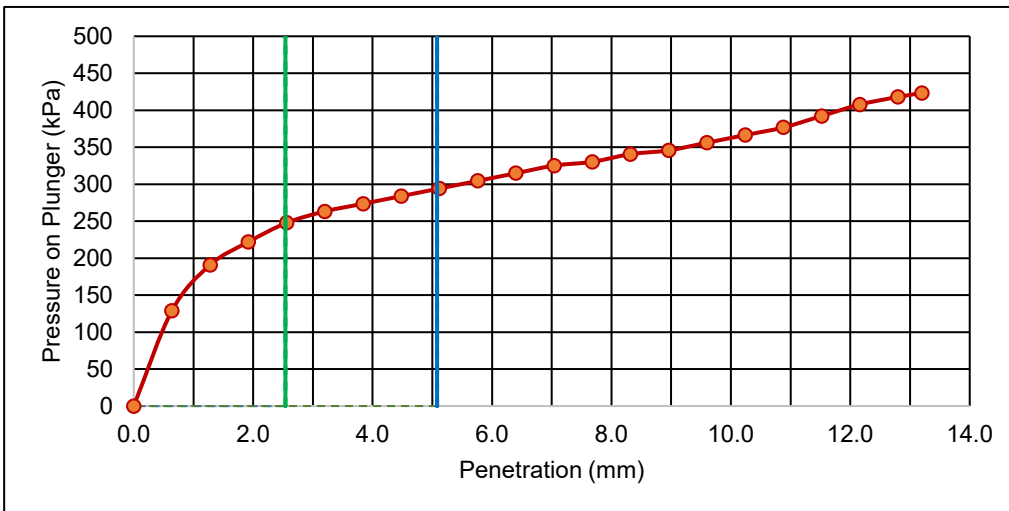
SUPPLIER Existing Material
SOURCE Bore Hole
SAMPLE LOCATION BH-174, 0.8 m
STANTEC SAMPLE NO. 2720

IMMERSION PERIOD 96 ± 2 hr
CONDITION OF SAMPLE Soaked
SURCHARGE MASS 4.54 kg

TARGET MAX. DRY DENSITY 1530 kg/m³
TARGET OPTIMUM MOISTURE 25.5 %

+19 mm OVERSIZE 0 %
SWELL OF SAMPLE 2.51 %
POST-TEST MOISTURE 32.6 %

AS-COMPACTED DRY DENSITY 1445 kg/m³
AS-COMPACTED MOISTURE 26.3 %
AS-COMPACTED % COMPACTION 94 %




**CBR VALUE AT 2.54 mm
PENETRATION**
3.6

**CBR VALUE AT 5.08 mm
PENETRATION**
2.9

COMMENTS

Sample prepared to 95% of the maximum dry density at the optimum moisture content as determined from ASTM D698.

REPORT DATE 2026.Jan.29

REVIEWED BY  Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D1883 - CALIFORNIA BEARING RATIO (CBR) OF LABORATORY-COMPACTED SOILS

TO Dillon Consulting Ltd.
300 - 100 Innovation Drive
Winnipeg, Manitoba
R3T 6A8

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 7

DATE SAMPLED: 2026.Jan.12

DATE RECEIVED: 2026.Jan.12

DATE TESTED: 2026.Jan.23

SAMPLED BY: Stantec Consulting Ltd.

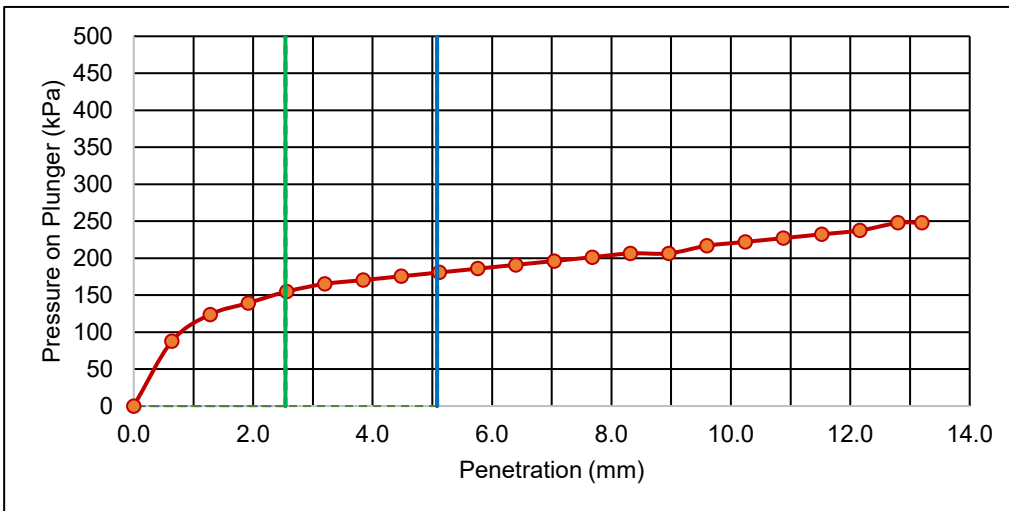
SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

MATERIAL USE	Subgrade	SUPPLIER	Existing Material
MAX. NOMINAL SIZE	< 4.75 mm	SOURCE	Bore Hole
MATERIAL TYPE	Fat Clay (CH)	SAMPLE LOCATION	BH-175, 0.8 m
SPECIFICATION ID	Not Applicable	STANTEC SAMPLE NO.	2721

IMMERSION PERIOD	96 ± 2 hr	TARGET MAX. DRY DENSITY	1480 kg/m ³
CONDITION OF SAMPLE	Soaked	TARGET OPTIMUM MOISTURE	25.5 %
SURCHARGE MASS	4.54 kg		
+19 mm OVERSIZE	0 %	AS-COMPACTED DRY DENSITY	1407 kg/m ³
SWELL OF SAMPLE	3.03 %	AS-COMPACTED MOISTURE	25.4 %
POST-TEST MOISTURE	32.5 %	AS-COMPACTED % COMPACTION	95 %



**CBR VALUE AT 2.54 mm
PENETRATION**
2.2


**CBR VALUE AT 5.08 mm
PENETRATION**
1.8

COMMENTS

Sample prepared to 95% of the maximum dry density at the optimum moisture content as determined from ASTM D698.

As per ASTM D1883 10.2, the sample should be re-run to confirm the higher CBR value at 5.08 mm.

REPORT DATE 2026.Feb.04

REVIEWED BY  Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D1883 - CALIFORNIA BEARING RATIO (CBR) OF LABORATORY-COMPACTED SOILS

TO Dillon Consulting Ltd.
300 - 100 Innovation Drive
Winnipeg, Manitoba
R3T 6A8

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 8

DATE SAMPLED: 2026.Jan.13

DATE RECEIVED: 2026.Jan.13

DATE TESTED: 2026.Jan.27

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

MATERIAL USE Subgrade
MAX. NOMINAL SIZE < 4.75 mm
MATERIAL TYPE Fat Clay (CH)
SPECIFICATION ID Not Applicable

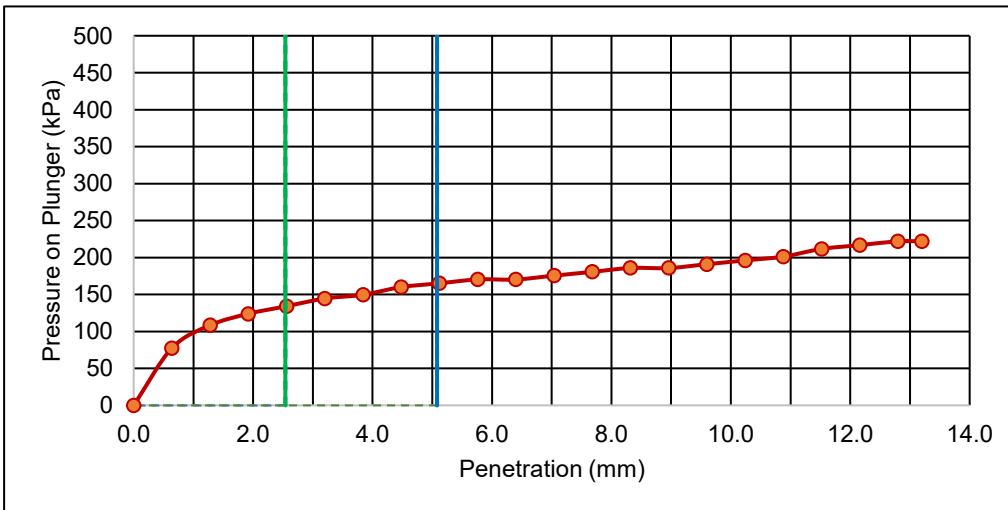
SUPPLIER Existing Material
SOURCE Bore Hole
SAMPLE LOCATION BH-176, 0.8 m
STANTEC SAMPLE NO. 2722

IMMERSION PERIOD 96 ± 2 hr
CONDITION OF SAMPLE Soaked
SURCHARGE MASS 4.54 kg

TARGET MAX. DRY DENSITY 1540 kg/m³
TARGET OPTIMUM MOISTURE 23.0 %

+19 mm OVERSIZE 0 %
SWELL OF SAMPLE 6.55 %
POST-TEST MOISTURE 35.3 %

AS-COMPACTED DRY DENSITY 1462 kg/m³
AS-COMPACTED MOISTURE 23.2 %
AS-COMPACTED % COMPACTION 95 %




**CBR VALUE AT 2.54 mm
PENETRATION**
1.9

**CBR VALUE AT 5.08 mm
PENETRATION**
1.6

COMMENTS

Sample prepared to 95% of the maximum dry density at the optimum moisture content as determined from ASTM D698.

REPORT DATE 2026.Feb.02

REVIEWED BY  Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D1883 - CALIFORNIA BEARING RATIO (CBR) OF LABORATORY-COMPACTED SOILS

TO Dillon Consulting Ltd.
300 - 100 Innovation Drive
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PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 9

DATE SAMPLED: 2026.Jan.13

DATE RECEIVED: 2026.Jan.13

DATE TESTED: 2026.Jan.27

SAMPLED BY: Stantec Consulting Ltd.

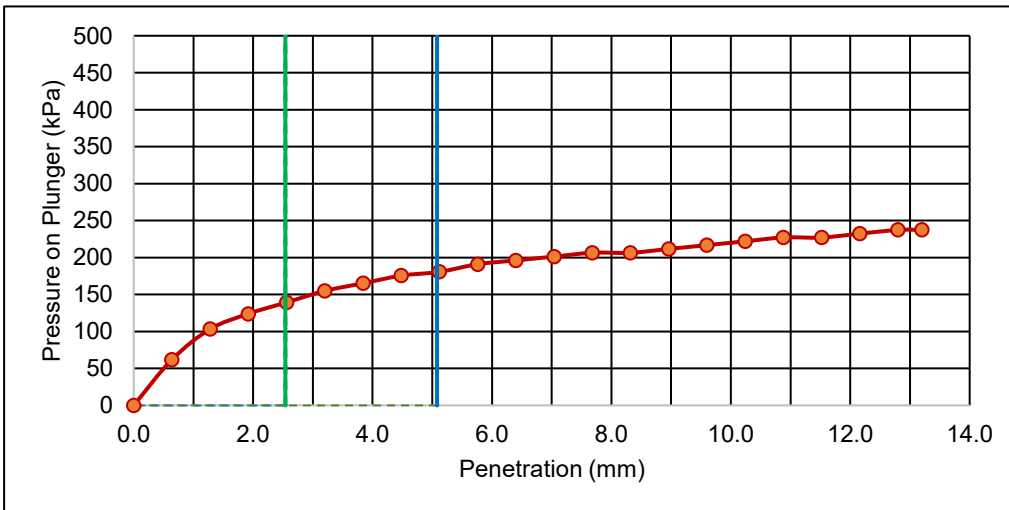
SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

MATERIAL USE	Subgrade	SUPPLIER	Existing Material
MAX. NOMINAL SIZE	< 4.75 mm	SOURCE	Bore Hole
MATERIAL TYPE	Fat Clay (CH)	SAMPLE LOCATION	BH-178, 0.8 m
SPECIFICATION ID	Not Applicable	STANTEC SAMPLE NO.	2723

IMMERSION PERIOD	96 ± 2 hr	TARGET MAX. DRY DENSITY	1480 kg/m ³
CONDITION OF SAMPLE	Soaked	TARGET OPTIMUM MOISTURE	25.5 %
SURCHARGE MASS	4.54 kg		
+19 mm OVERSIZE	0 %	AS-COMPACTED DRY DENSITY	1409 kg/m ³
SWELL OF SAMPLE	5.39 %	AS-COMPACTED MOISTURE	25.4 %
POST-TEST MOISTURE	35.5 %	AS-COMPACTED % COMPACTION	95 %




**CBR VALUE AT 2.54 mm
PENETRATION**
2.0

**CBR VALUE AT 5.08 mm
PENETRATION**
1.8

COMMENTS

Sample prepared to 95% of the maximum dry density at the optimum moisture content as determined from ASTM D698.

REPORT DATE 2026.Feb.02

REVIEWED BY  Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D1883 - CALIFORNIA BEARING RATIO (CBR) OF LABORATORY-COMPACTED SOILS

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Winnipeg, Manitoba
R3T 6A8

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 10

DATE SAMPLED: 2026.Jan.13

DATE RECEIVED: 2026.Jan.13

DATE TESTED: 2026.Jan.27

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

MATERIAL USE Subgrade
MAX. NOMINAL SIZE < 4.75 mm
MATERIAL TYPE Fat Clay (CH)
SPECIFICATION ID Not Applicable

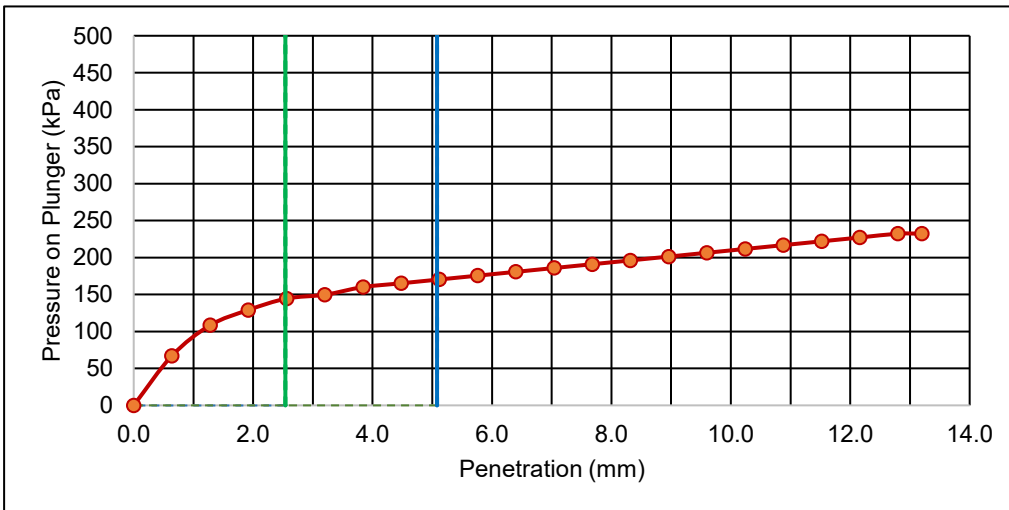
SUPPLIER Existing Material
SOURCE Bore Hole
SAMPLE LOCATION BH-179, 0.8 m
STANTEC SAMPLE NO. 2724

IMMERSION PERIOD 96 ± 2 hr
CONDITION OF SAMPLE Soaked
SURCHARGE MASS 4.54 kg

TARGET MAX. DRY DENSITY 1480 kg/m³
TARGET OPTIMUM MOISTURE 24.5 %

+19 mm OVERSIZE 0 %
SWELL OF SAMPLE 6.07 %
POST-TEST MOISTURE 36.2 %

AS-COMPACTED DRY DENSITY 1402 kg/m³
AS-COMPACTED MOISTURE 24.6 %
AS-COMPACTED % COMPACTION 95 %



**CBR VALUE AT 2.54 mm
PENETRATION**
2.1

**CBR VALUE AT 5.08 mm
PENETRATION**
1.7

COMMENTS

Sample prepared to 95% of the maximum dry density at the optimum moisture content as determined from ASTM D698.

REPORT DATE 2026.Feb.02

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D1883 - CALIFORNIA BEARING RATIO (CBR) OF LABORATORY-COMPACTED SOILS

TO Dillon Consulting Ltd.
300 - 100 Innovation Drive
Winnipeg, Manitoba
R3T 6A8

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 11

DATE SAMPLED: 2026.Jan.13

DATE RECEIVED: 2026.Jan.13

DATE TESTED: 2026.Jan.30

SAMPLED BY: Stantec Consulting Ltd.

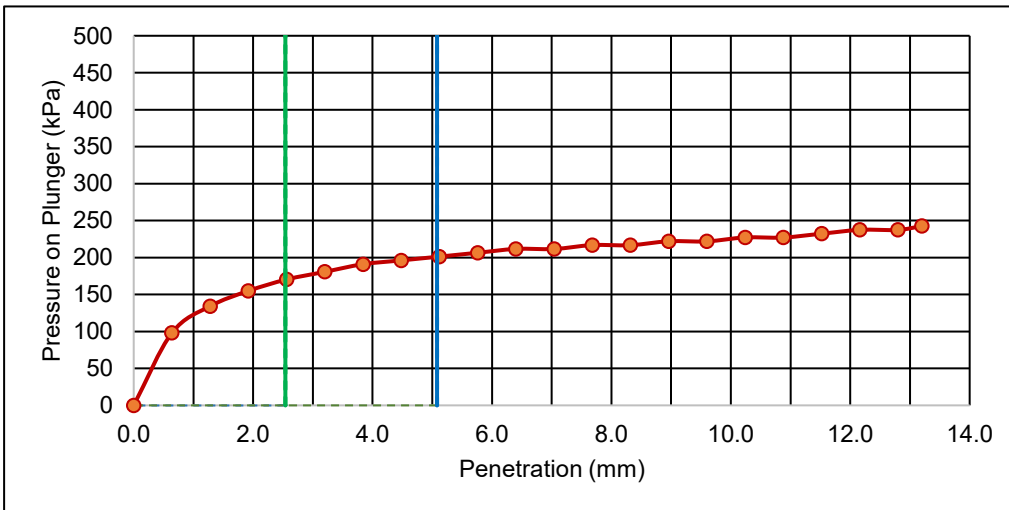
SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

MATERIAL USE	Subgrade	SUPPLIER	Existing Material
MAX. NOMINAL SIZE	< 4.75 mm	SOURCE	Bore Hole
MATERIAL TYPE	Lean Clay (CL)	SAMPLE LOCATION	BH-181, 0.8 m
SPECIFICATION ID	Not Applicable	STANTEC SAMPLE NO.	2725

IMMERSION PERIOD	96 ± 2 hr	TARGET MAX. DRY DENSITY	1470 kg/m ³
CONDITION OF SAMPLE	Soaked	TARGET OPTIMUM MOISTURE	28.0 %
SURCHARGE MASS	4.54 kg		
+19 mm OVERSIZE	0 %	AS-COMPACTED DRY DENSITY	1395 kg/m ³
SWELL OF SAMPLE	4.40 %	AS-COMPACTED MOISTURE	28.1 %
POST-TEST MOISTURE	35.7 %	AS-COMPACTED % COMPACTION	95 %




**CBR VALUE AT 2.54 mm
PENETRATION**
2.5

**CBR VALUE AT 5.08 mm
PENETRATION**
2.0

COMMENTS

Sample prepared to 95% of the maximum dry density at the optimum moisture content as determined from ASTM D698.

REPORT DATE 2026.Feb.04

REVIEWED BY  Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D1883 - CALIFORNIA BEARING RATIO (CBR) OF LABORATORY-COMPACTED SOILS

TO Dillon Consulting Ltd.
300 - 100 Innovation Drive
Winnipeg, Manitoba
R3T 6A8

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 12

DATE SAMPLED: 2026.Jan.13

DATE RECEIVED: 2026.Jan.13

DATE TESTED: 2026.Jan.30

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

MATERIAL USE Subgrade
MAX. NOMINAL SIZE < 4.75 mm
MATERIAL TYPE Fat Clay (CH)
SPECIFICATION ID Not Applicable

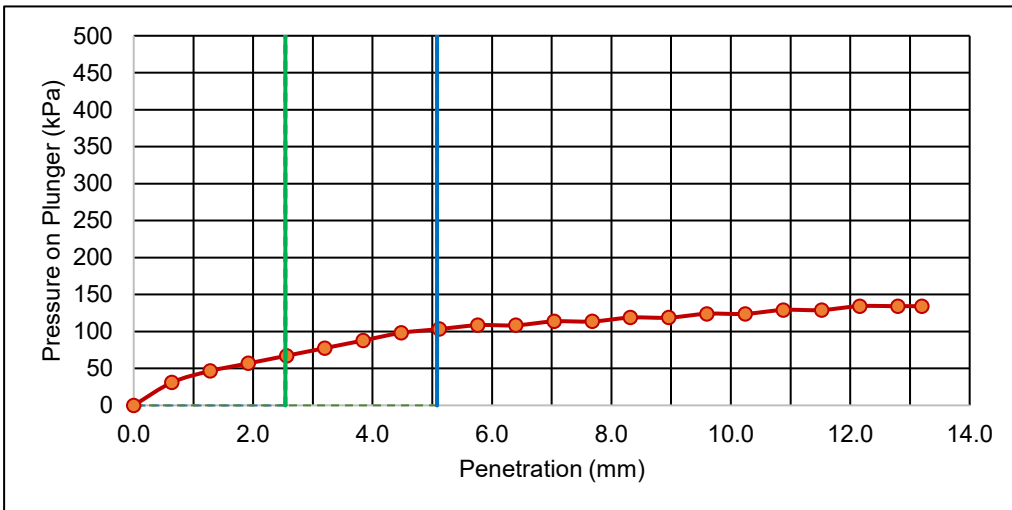
SUPPLIER Existing Material
SOURCE Bore Hole
SAMPLE LOCATION BH-182, 0.8 m
STANTEC SAMPLE NO. 2726

IMMERSION PERIOD 96 ± 2 hr
CONDITION OF SAMPLE Soaked
SURCHARGE MASS 4.54 kg

TARGET MAX. DRY DENSITY 1420 kg/m³
TARGET OPTIMUM MOISTURE 25.0 %

+19 mm OVERSIZE 0 %
SWELL OF SAMPLE 8.95 %
POST-TEST MOISTURE 46.4 %

AS-COMPACTED DRY DENSITY 1348 kg/m³
AS-COMPACTED MOISTURE 25.1 %
AS-COMPACTED % COMPACTION 95 %



**CBR VALUE AT 2.54 mm
PENETRATION**
1.0

**CBR VALUE AT 5.08 mm
PENETRATION**
1.0

COMMENTS

Sample prepared to 95% of the maximum dry density at the optimum moisture content as determined from ASTM D698.

REPORT DATE 2026.Feb.04

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D1883 - CALIFORNIA BEARING RATIO (CBR) OF LABORATORY-COMPACTED SOILS

TO Dillon Consulting Ltd.
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Winnipeg, Manitoba
R3T 6A8

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 13

DATE SAMPLED: 2026.Jan.14

DATE RECEIVED: 2026.Jan.14

DATE TESTED: 2026.Jan.30

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

MATERIAL USE Subgrade
MAX. NOMINAL SIZE < 4.75 mm
MATERIAL TYPE Fat Clay (CH)
SPECIFICATION ID Not Applicable

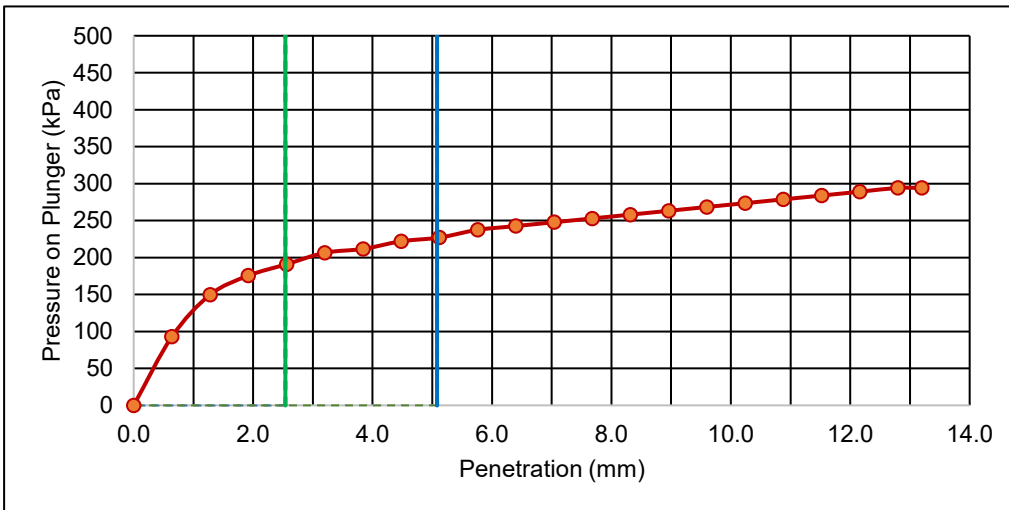
SUPPLIER Existing Material
SOURCE Bore Hole
SAMPLE LOCATION BH-183, 0.7 m
STANTEC SAMPLE NO. 2727

IMMERSION PERIOD 96 ± 2 hr
CONDITION OF SAMPLE Soaked
SURCHARGE MASS 4.54 kg

TARGET MAX. DRY DENSITY 1520 kg/m³
TARGET OPTIMUM MOISTURE 25.0 %

+19 mm OVERSIZE 0 %
SWELL OF SAMPLE 3.37 %
POST-TEST MOISTURE 31.8 %

AS-COMPACTED DRY DENSITY 1445 kg/m³
AS-COMPACTED MOISTURE 25.0 %
AS-COMPACTED % COMPACTION 95 %



**CBR VALUE AT 2.54 mm
PENETRATION**
2.8

**CBR VALUE AT 5.08 mm
PENETRATION**
2.3

COMMENTS

Sample prepared to 95% of the maximum dry density at the optimum moisture content as determined from ASTM D698.

REPORT DATE 2026.Feb.04

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D1883 - CALIFORNIA BEARING RATIO (CBR) OF LABORATORY-COMPACTED SOILS

TO Dillon Consulting Ltd.
300 - 100 Innovation Drive
Winnipeg, Manitoba
R3T 6A8

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 14

DATE SAMPLED: 2026.Jan.14

DATE RECEIVED: 2026.Jan.14

DATE TESTED: 2026.Jan.30

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

MATERIAL USE Subgrade
MAX. NOMINAL SIZE < 4.75 mm
MATERIAL TYPE Fat Clay (CH)
SPECIFICATION ID Not Applicable

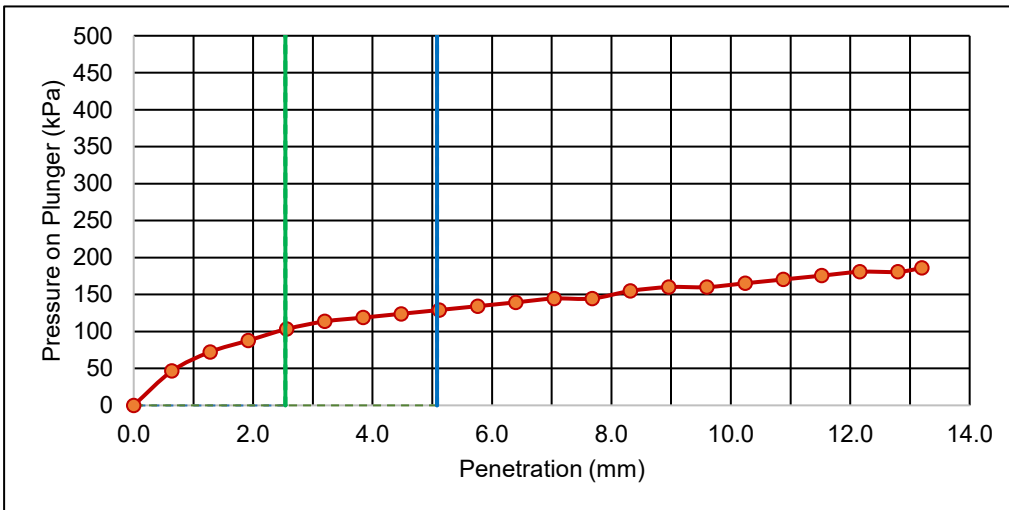
SUPPLIER Existing Material
SOURCE Bore Hole
SAMPLE LOCATION BH-185, 0.7 m
STANTEC SAMPLE NO. 2728

IMMERSION PERIOD 96 ± 2 hr
CONDITION OF SAMPLE Soaked
SURCHARGE MASS 4.54 kg

TARGET MAX. DRY DENSITY 1470 kg/m³
TARGET OPTIMUM MOISTURE 25.0 %

+19 mm OVERSIZE 0 %
SWELL OF SAMPLE 6.30 %
POST-TEST MOISTURE 39.6 %

AS-COMPACTED DRY DENSITY 1400 kg/m³
AS-COMPACTED MOISTURE 25.1 %
AS-COMPACTED % COMPACTION 95 %



**CBR VALUE AT 2.54 mm
PENETRATION**
1.5

**CBR VALUE AT 5.08 mm
PENETRATION**
1.3

COMMENTS

Sample prepared to 95% of the maximum dry density at the optimum moisture content as determined from ASTM D698.

REPORT DATE 2026.Feb.04

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D1883 - CALIFORNIA BEARING RATIO (CBR) OF LABORATORY-COMPACTED SOILS

TO Dillon Consulting Ltd.
300 - 100 Innovation Drive
Winnipeg, Manitoba
R3T 6A8

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 15

DATE SAMPLED: 2026.Jan.14

DATE RECEIVED: 2026.Jan.14

DATE TESTED: 2026.Jan.30

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

MATERIAL USE Subgrade
MAX. NOMINAL SIZE < 4.75 mm
MATERIAL TYPE Fat Clay (CH)
SPECIFICATION ID Not Applicable

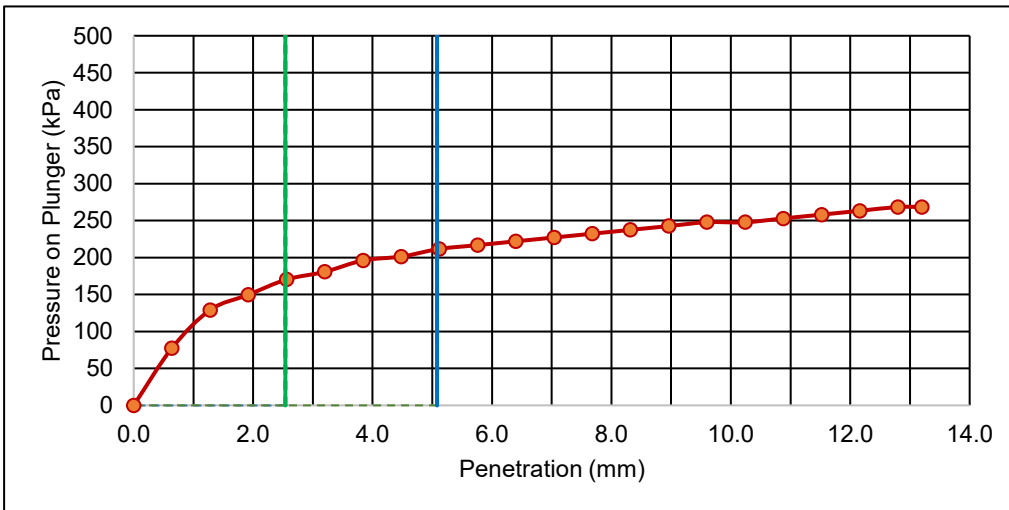
SUPPLIER Existing Material
SOURCE Bore Hole
SAMPLE LOCATION BH-186, 0.8 m
STANTEC SAMPLE NO. 2729

IMMERSION PERIOD 96 ± 2 hr
CONDITION OF SAMPLE Soaked
SURCHARGE MASS 4.54 kg

TARGET MAX. DRY DENSITY 1440 kg/m³
TARGET OPTIMUM MOISTURE 28.0 %

+19 mm OVERSIZE 0 %
SWELL OF SAMPLE 4.69 %
POST-TEST MOISTURE 37.8 %

AS-COMPACTED DRY DENSITY 1369 kg/m³
AS-COMPACTED MOISTURE 27.9 %
AS-COMPACTED % COMPACTION 95 %




**CBR VALUE AT 2.54 mm
PENETRATION**
2.5

**CBR VALUE AT 5.08 mm
PENETRATION**
2.1

COMMENTS

Sample prepared to 95% of the maximum dry density at the optimum moisture content as determined from ASTM D698.

REPORT DATE 2026.Feb.04

REVIEWED BY  Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D1883 - CALIFORNIA BEARING RATIO (CBR) OF LABORATORY-COMPACTED SOILS

TO Dillon Consulting Ltd.
300 - 100 Innovation Drive
Winnipeg, Manitoba
R3T 6A8

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 16

DATE SAMPLED: 2026.Jan.14

DATE RECEIVED: 2026.Jan.14

DATE TESTED: 2026.Jan.30

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

MATERIAL USE Subgrade
MAX. NOMINAL SIZE < 4.75 mm
MATERIAL TYPE Fat Clay (CH)
SPECIFICATION ID Not Applicable

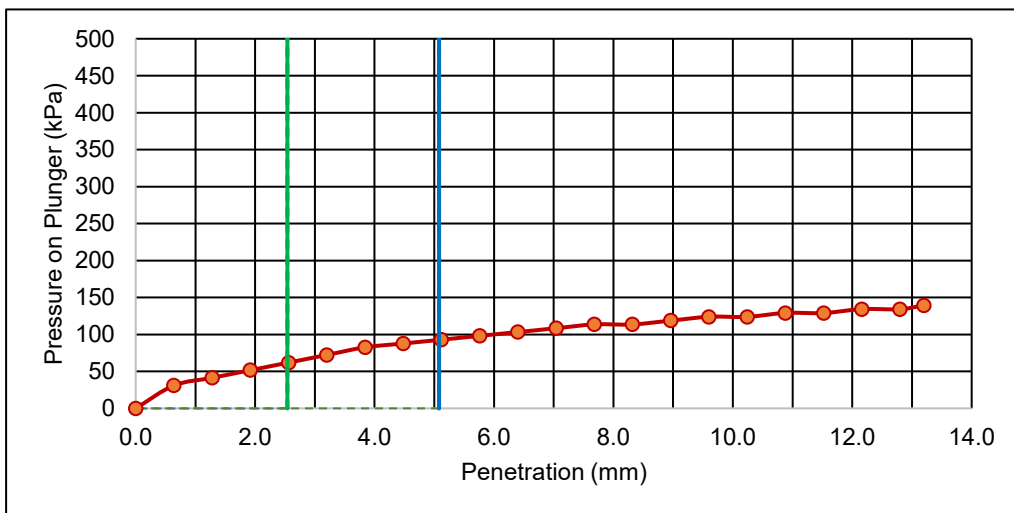
SUPPLIER Existing Material
SOURCE Bore Hole
SAMPLE LOCATION BH-187, 0.8 m
STANTEC SAMPLE NO. 2730

IMMERSION PERIOD 96 ± 2 hr
CONDITION OF SAMPLE Soaked
SURCHARGE MASS 4.54 kg

TARGET MAX. DRY DENSITY 1380 kg/m³
TARGET OPTIMUM MOISTURE 24.5 %

+19 mm OVERSIZE 0 %
SWELL OF SAMPLE 8.42 %
POST-TEST MOISTURE 45.1 %

AS-COMPACTED DRY DENSITY 1312 kg/m³
AS-COMPACTED MOISTURE 24.5 %
AS-COMPACTED % COMPACTION 95 %



**CBR VALUE AT 2.54 mm
PENETRATION**
0.9

**CBR VALUE AT 5.08 mm
PENETRATION**
0.9

COMMENTS

Sample prepared to 95% of the maximum dry density at the optimum moisture content as determined from ASTM D698.

REPORT DATE 2026.Feb.04

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D1883 - CALIFORNIA BEARING RATIO (CBR) OF LABORATORY-COMPACTED SOILS

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R3T 6A8

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 17

DATE SAMPLED: 2026.Jan.14

DATE RECEIVED: 2026.Jan.14

DATE TESTED: 2026.Jan.30

SAMPLED BY: Stantec Consulting Ltd.

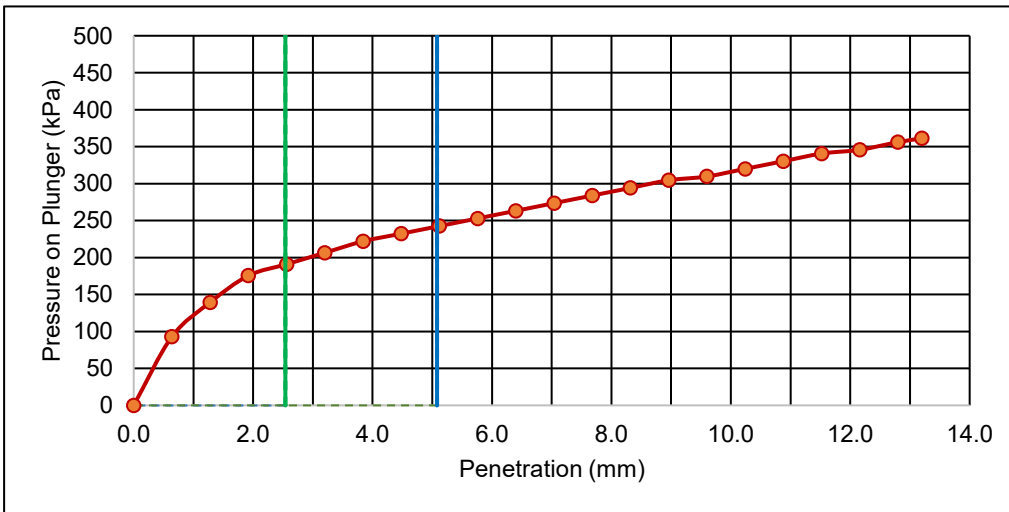
SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

MATERIAL USE	Subgrade	SUPPLIER	Existing Material
MAX. NOMINAL SIZE	< 4.75 mm	SOURCE	Bore Hole
MATERIAL TYPE	Fat Clay (CH)	SAMPLE LOCATION	BH-188, 0.8 m
SPECIFICATION ID	Not Applicable	STANTEC SAMPLE NO.	2731

IMMERSION PERIOD	96 ± 2 hr	TARGET MAX. DRY DENSITY	1510 kg/m ³
CONDITION OF SAMPLE	Soaked	TARGET OPTIMUM MOISTURE	24.0 %
SURCHARGE MASS	4.54 kg		
+19 mm OVERSIZE	0 %	AS-COMPACTED DRY DENSITY	1436 kg/m ³
SWELL OF SAMPLE	3.52 %	AS-COMPACTED MOISTURE	23.9 %
POST-TEST MOISTURE	32.0 %	AS-COMPACTED % COMPACTION	95 %




**CBR VALUE AT 2.54 mm
PENETRATION**
2.8

**CBR VALUE AT 5.08 mm
PENETRATION**
2.4

COMMENTS

Sample prepared to 95% of the maximum dry density at the optimum moisture content as determined from ASTM D698.

REPORT DATE 2026.Feb.04

REVIEWED BY  Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D1883 - CALIFORNIA BEARING RATIO (CBR) OF LABORATORY-COMPACTED SOILS

TO Dillon Consulting Ltd.
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Winnipeg, Manitoba
R3T 6A8

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 18

DATE SAMPLED: 2026.Jan.15

DATE RECEIVED: 2026.Jan.15

DATE TESTED: 2026.Jan.30

SAMPLED BY: Stantec Consulting Ltd.

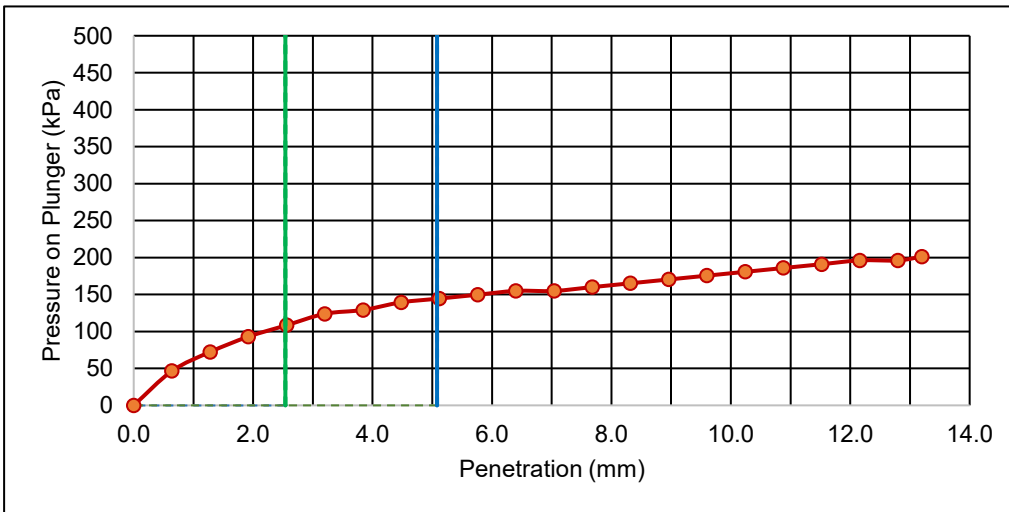
SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

MATERIAL USE	Subgrade	SUPPLIER	Existing Material
MAX. NOMINAL SIZE	< 4.75 mm	SOURCE	Bore Hole
MATERIAL TYPE	Fat Clay (CH)	SAMPLE LOCATION	BH-189, 0.8 m
SPECIFICATION ID	Not Applicable	STANTEC SAMPLE NO.	2732

IMMERSION PERIOD	96 ± 2 hr	TARGET MAX. DRY DENSITY	1490 kg/m ³
CONDITION OF SAMPLE	Soaked	TARGET OPTIMUM MOISTURE	25.0 %
SURCHARGE MASS	4.54 kg		
+19 mm OVERSIZE	0 %	AS-COMPACTED DRY DENSITY	1416 kg/m ³
SWELL OF SAMPLE	5.62 %	AS-COMPACTED MOISTURE	25.1 %
POST-TEST MOISTURE	39.0 %	AS-COMPACTED % COMPACTION	95 %



**CBR VALUE AT 2.54 mm
PENETRATION**
1.6

**CBR VALUE AT 5.08 mm
PENETRATION**
1.4

COMMENTS

Sample prepared to 95% of the maximum dry density at the optimum moisture content as determined from ASTM D698.

REPORT DATE 2026.Feb.04

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D1883 - CALIFORNIA BEARING RATIO (CBR) OF LABORATORY-COMPACTED SOILS

TO Dillon Consulting Ltd.
300 - 100 Innovation Drive
Winnipeg, Manitoba
R3T 6A8

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 19

DATE SAMPLED: 2026.Jan.14

DATE RECEIVED: 2026.Jan.14

DATE TESTED: 2026.Jan.30

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

MATERIAL USE Subgrade
MAX. NOMINAL SIZE < 4.75 mm
MATERIAL TYPE Fat Clay (CH)
SPECIFICATION ID Not Applicable

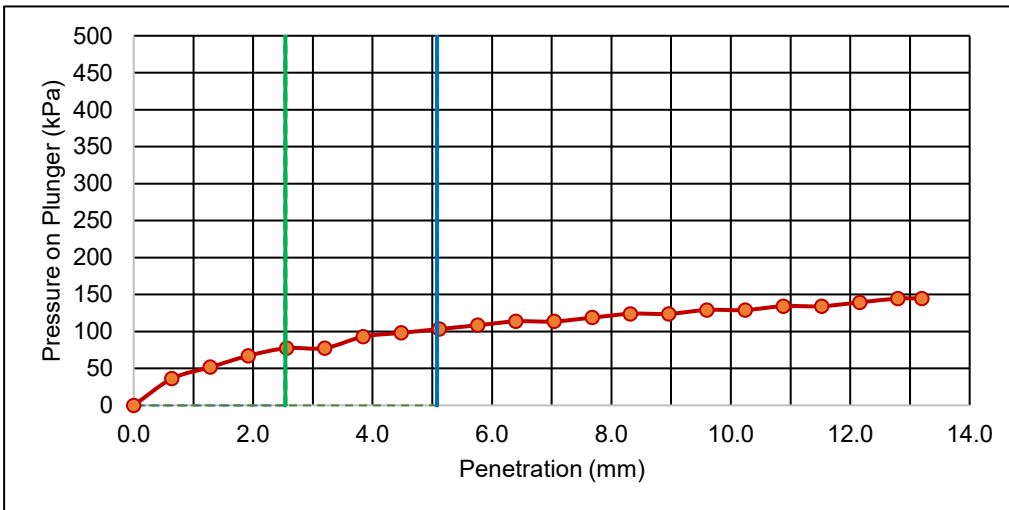
SUPPLIER Existing Material
SOURCE Bore Hole
SAMPLE LOCATION BH-191, 0.8 m
STANTEC SAMPLE NO. 2733

IMMERSION PERIOD 96 ± 2 hr
CONDITION OF SAMPLE Soaked
SURCHARGE MASS 4.54 kg

TARGET MAX. DRY DENSITY 1430 kg/m³
TARGET OPTIMUM MOISTURE 25.0 %

+19 mm OVERSIZE 0 %
SWELL OF SAMPLE 7.02 %
POST-TEST MOISTURE 42.1 %

AS-COMPACTED DRY DENSITY 1358 kg/m³
AS-COMPACTED MOISTURE 25.1 %
AS-COMPACTED % COMPACTION 95 %




**CBR VALUE AT 2.54 mm
PENETRATION**
1.1

**CBR VALUE AT 5.08 mm
PENETRATION**
1.0

COMMENTS

Sample prepared to 95% of the maximum dry density at the optimum moisture content as determined from ASTM D698.

REPORT DATE 2026.Feb.04

REVIEWED BY  Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D1883 - CALIFORNIA BEARING RATIO (CBR) OF LABORATORY-COMPACTED SOILS

TO Dillon Consulting Ltd.
300 - 100 Innovation Drive
Winnipeg, Manitoba
R3T 6A8

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 20

DATE SAMPLED: 2026.Jan.15

DATE RECEIVED: 2026.Jan.15

DATE TESTED: 2026.Jan.30

SAMPLED BY: Stantec Consulting Ltd.

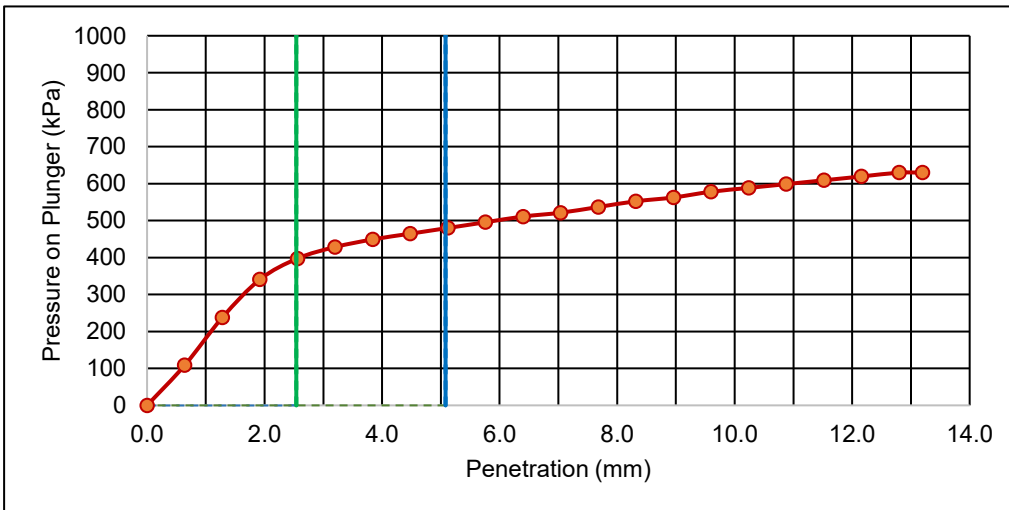
SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

MATERIAL USE	Subgrade	SUPPLIER	Existing Material
MAX. NOMINAL SIZE	< 4.75 mm	SOURCE	Bore Hole
MATERIAL TYPE	Fat Clay (CH)	SAMPLE LOCATION	BH-192, 0.7 m
SPECIFICATION ID	Not Applicable	STANTEC SAMPLE NO.	2734

IMMERSION PERIOD	96 ± 2 hr	TARGET MAX. DRY DENSITY	1700 kg/m ³
CONDITION OF SAMPLE	Soaked	TARGET OPTIMUM MOISTURE	20.0 %
SURCHARGE MASS	4.54 kg		
+19 mm OVERSIZE	0 %	AS-COMPACTED DRY DENSITY	1616 kg/m ³
SWELL OF SAMPLE	1.62 %	AS-COMPACTED MOISTURE	19.9 %
POST-TEST MOISTURE	23.1 %	AS-COMPACTED % COMPACTION	95 %




**CBR VALUE AT 2.54 mm
PENETRATION**
5.7

**CBR VALUE AT 5.08 mm
PENETRATION**
4.8

COMMENTS

Sample prepared to 95% of the maximum dry density at the optimum moisture content as determined from ASTM D698.

REPORT DATE 2026.Feb.04

REVIEWED BY  Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D1883 - CALIFORNIA BEARING RATIO (CBR) OF LABORATORY-COMPACTED SOILS

TO Dillon Consulting Ltd.
300 - 100 Innovation Drive
Winnipeg, Manitoba
R3T 6A8

PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 21

DATE SAMPLED: 2026.Jan.15

DATE RECEIVED: 2026.Jan.15

DATE TESTED: 2026.Jan.30

SAMPLED BY: Stantec Consulting Ltd.

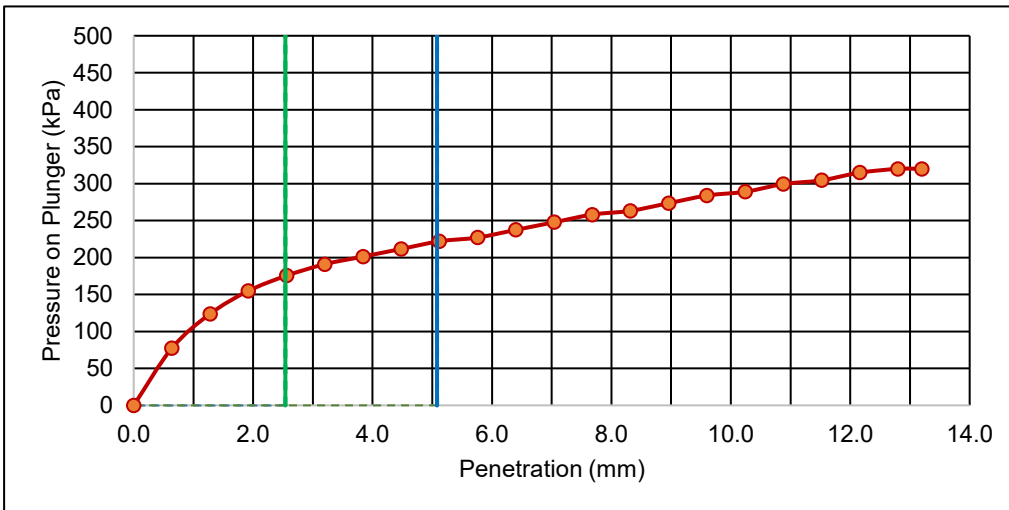
SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

MATERIAL USE	Subgrade	SUPPLIER	Existing Material
MAX. NOMINAL SIZE	< 4.75 mm	SOURCE	Bore Hole
MATERIAL TYPE	Lean Clay (CL)	SAMPLE LOCATION	BH-193, 0.8 m
SPECIFICATION ID	Not Applicable	STANTEC SAMPLE NO.	2735

IMMERSION PERIOD	96 ± 2 hr	TARGET MAX. DRY DENSITY	1600 kg/m ³
CONDITION OF SAMPLE	Soaked	TARGET OPTIMUM MOISTURE	21.5 %
SURCHARGE MASS	4.54 kg		
+19 mm OVERSIZE	0 %	AS-COMPACTED DRY DENSITY	1521 kg/m ³
SWELL OF SAMPLE	2.47 %	AS-COMPACTED MOISTURE	21.4 %
POST-TEST MOISTURE	27.6 %	AS-COMPACTED % COMPACTION	95 %




**CBR VALUE AT 2.54 mm
PENETRATION**
2.5

**CBR VALUE AT 5.08 mm
PENETRATION**
2.2

COMMENTS

Sample prepared to 95% of the maximum dry density at the optimum moisture content as determined from ASTM D698.

REPORT DATE 2026.Feb.04

REVIEWED BY  Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D1883 - CALIFORNIA BEARING RATIO (CBR) OF LABORATORY-COMPACTED SOILS

TO Dillon Consulting Ltd.
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PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 22

DATE SAMPLED: 2026.Jan.15

DATE RECEIVED: 2026.Jan.15

DATE TESTED: 2026.Jan.31

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

MATERIAL USE Subgrade
MAX. NOMINAL SIZE < 4.75 mm
MATERIAL TYPE Fat Clay (CH)
SPECIFICATION ID Not Applicable

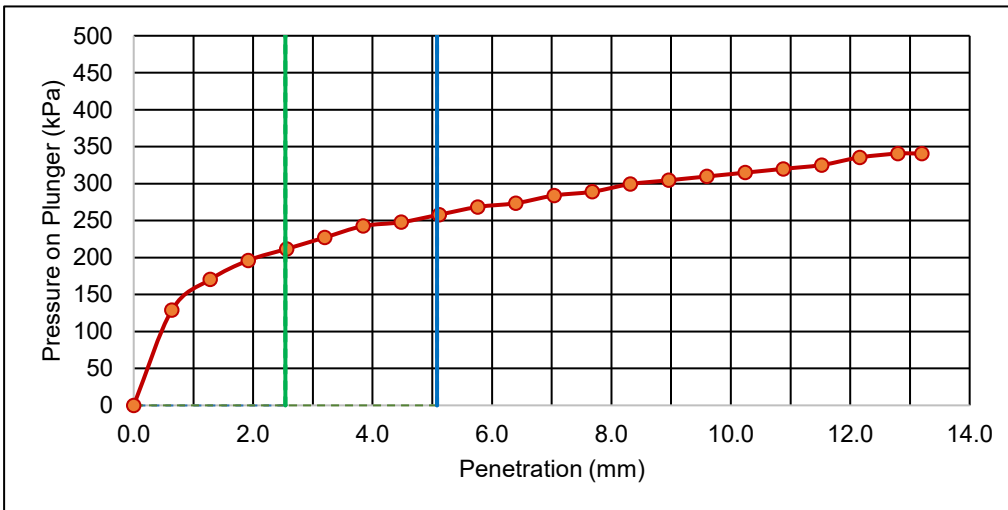
SUPPLIER Existing Material
SOURCE Bore Hole
SAMPLE LOCATION BH-194, 0.7 m
STANTEC SAMPLE NO. 2736

IMMERSION PERIOD 96 ± 2 hr
CONDITION OF SAMPLE Soaked
SURCHARGE MASS 4.54 kg

TARGET MAX. DRY DENSITY 1500 kg/m³
TARGET OPTIMUM MOISTURE 24.0 %

+19 mm OVERSIZE 0 %
SWELL OF SAMPLE 3.03 %
POST-TEST MOISTURE 30.9 %

AS-COMPACTED DRY DENSITY 1425 kg/m³
AS-COMPACTED MOISTURE 24.0 %
AS-COMPACTED % COMPACTION 95 %



**CBR VALUE AT 2.54 mm
PENETRATION**
3.1

**CBR VALUE AT 5.08 mm
PENETRATION**
2.6

COMMENTS

Sample prepared to 95% of the maximum dry density at the optimum moisture content as determined from ASTM D698.

REPORT DATE 2026.Feb.05

REVIEWED BY Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services

ASTM D1883 - CALIFORNIA BEARING RATIO (CBR) OF LABORATORY-COMPACTED SOILS

TO Dillon Consulting Ltd.
300 - 100 Innovation Drive
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PROJECT 2026 Local Street Renewal Program
26-R-04

PROJECT NO. 123318029

ATTN Aaron Fleming

REPORT NO. 23

DATE SAMPLED: 2026.Jan.15

DATE RECEIVED: 2026.Jan.15

DATE TESTED: 2026.Jan.31

SAMPLED BY: Stantec Consulting Ltd.

SUBMITTED BY: Stantec Consulting Ltd.

TESTED BY: Madison Murphy

MATERIAL IDENTIFICATION

MATERIAL USE Subgrade
MAX. NOMINAL SIZE < 4.75 mm
MATERIAL TYPE Silty Clay
SPECIFICATION ID Fat Clay (CH)

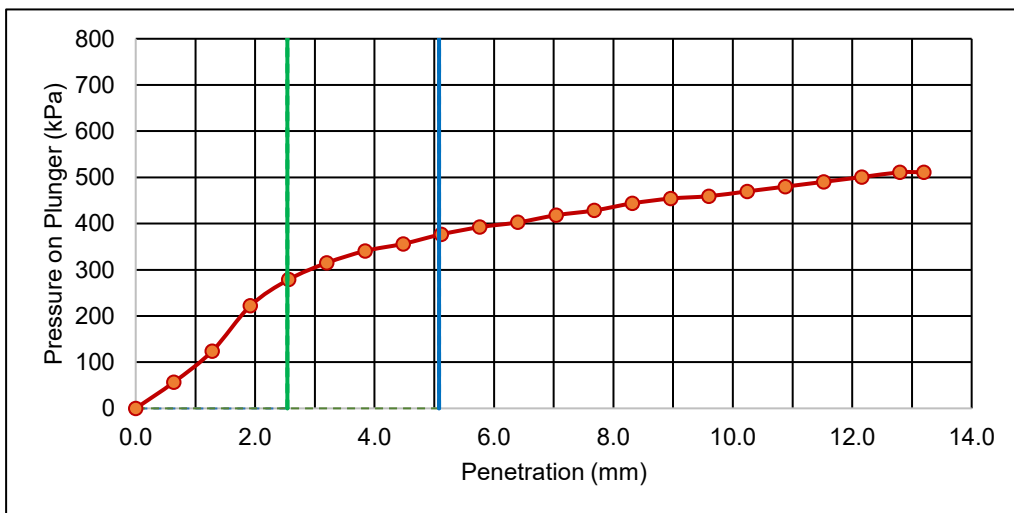
SUPPLIER Existing Material
SOURCE Bore Hole
SAMPLE LOCATION BH-196, 0.7 m
STANTEC SAMPLE NO. 2737

IMMERSION PERIOD 96 ± 2 hr
CONDITION OF SAMPLE Soaked
SURCHARGE MASS 4.54 kg

TARGET MAX. DRY DENSITY 1580 kg/m³
TARGET OPTIMUM MOISTURE 24.5 %

+19 mm OVERSIZE 0 %
SWELL OF SAMPLE 1.41 %
POST-TEST MOISTURE 26.6 %

AS-COMPACTED DRY DENSITY 1501 kg/m³
AS-COMPACTED MOISTURE 24.5 %
AS-COMPACTED % COMPACTION 95 %




**CBR VALUE AT 2.54 mm
PENETRATION**
4.0

**CBR VALUE AT 5.08 mm
PENETRATION**
3.8

COMMENTS

Sample prepared to 95% of the maximum dry density at the optimum moisture content as determined from ASTM D698.

REPORT DATE 2026.Feb.05

REVIEWED BY  Guillaume Beauce, P.Eng.
Geotechnical Engineer - Materials Testing Services