

APPENDIX 'A'

GEOTECHNICAL REPORT

2026 LOCAL STREETS PACKAGE 26-R-02

RENEWAL OF LOCAL STREETS FOR THE CITY OF WINNIPEG

Prepared for

Ryan Cunningham, P.Eng.
AECOM Canada Ltd.
99 Commerce Drive, Winnipeg
MB R3P 0Y7

January 19, 2026

TABLE OF CONTENTS

Pavement Investigation Report

Introduction.....	1
Field Work Program	
Sample Review and Data Reporting	
Closure	
Summary of Test Results.....	2

Appendix A – Rehabilitation Sites

A.1 Addington By/N leg between Oakdale Dr and End of Addington By	6
A.2 Addington By/S leg between End of Addington By and Oakdale Dr.....	11
A.3 Alenbrook By/S leg between Oakdale Dr and End of Alenbrook By.....	16
A.4 Bellavista Cr between Voyageur Av and Rogan Dr	21
A.5 Cora Av between Whitegates Cr and Maureen St.....	28
A.6 Denton Pl between Grant Av and End of Denton Pl.....	36
A.7 Golf Bv between McBey Av and Meadowsde Dr.....	39
A.8 Greenacre Bv between Portage Av and McBey Av.....	44
A.9 Kilmer Av between Carroll Rd and Longfellow By.....	49
A.10 Radar Pl between Voyageur Av and Rogan Dr.....	54
A.11 Raquette St between Browning Bv and Assiniboine Av.....	59
A.12 Rogan Dr between Bellavista Cr and Hamilton Av.....	66
A.13 West Av between Rouge Rd and Whitegates Cr.....	73
A.14 Bedson St/Portage Ave Alley - Allard Av/Best St	78
A.15 Cathcart St/Woodfield By Alley - Woodfield By/ Woodfield By	86
A.16 Olive St/Lodge Av Alley - Portage Av/Whytewold Rd	91
A.17 Thompson Dr/Lodge Av Alley - Portage Av/ Wallasey St.....	95
A.18 Wallasey St/Lodge Av Alley - Portage Av/Aldine St.....	100
A.19 Whytewold Rd/Lodge Av Alley - Portage Av/Vernon Rd	104

Introduction

H. Manalo Consulting Ltd. (HMCL) was authorized by Ryan Cunningham, P.Eng., on behalf of AECOM Canada Ltd., to carry out pavement coring activities as outlined in the correspondence dated November 18, 2025. The objective of this investigation was to collect pavement core samples along 19 local streets within City of Winnipeg under the Local Street Package 26-R-02. The data collected will support the assessment of existing road conditions for the proposed road rehabilitation

Field Work Program

The field investigation was conducted in accordance with the City of Winnipeg's standard guidelines. Core location plans were provided by AECOM Canada Ltd. Pavement coring was performed between November 24, 2025 and December 17, 2025, using a 150-mm diameter coring bit. Following sample extraction, each core hole was backfilled with granular material and topped with asphalt cold mix to restore surface integrity.

All core samples were transported to the HMCL laboratory for detailed analysis and documentation.

Sample Review and Data Reporting

Laboratory review revealed the following pavement thicknesses:

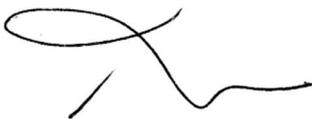
- Asphalt pavement: 5 mm to 50 mm
- Concrete pavement: 50 mm to 181 mm

Each core sample was measured and photographed for reference. Detailed thickness records are maintained and available upon request.

Closing Remarks

We appreciate the opportunity to contribute to this project. Should you require additional information or clarification, please do not hesitate to contact the undersigned.

Prepared by:



Mayumi Kawano, EIT
Supervisor, Field and Laboratory

Reviewed by:



Paul Bevel
Manager, Field and Laboratory Services

Summary of Test Results

Rehabilitation Sites	Core Hole No.	Core Hole Location	Asphalt Thickness (mm)	Concrete Thickness (mm)	Compressive Strength (MPa)
Addington By N leg	1	Mid Slab; Front of House # 19 Addington Bay, WBL; 1.5m away from the curb 14 U, 624147 E, 5523250 N	80 ^A	150 ^A	-
	2	Mid Slab; Side of House # 812 Oakdale Dr, EBL; 2m away from the curb 14 U, 624228 E, 5523244 N	-	140	58.94
Addington By S leg	1	Mid Slab; Side of House # 824 Oakdale Dr, WBL; 1.5m away from the curb 14 U, 624207 E, 5523164 N	-	145	38.21
Alenbrook By S leg - Oakdale Dr	1	Mid Slab; Front of House # 71 Alenbrook Bay, EBL; 1.5m away from the curb 14 U, 624159 E, 5522990 N	-	126	52.82
Bellavista Cr - Voyageur Av Ro	1	Mid Slab; Front of House # 86 Bellavista Cr, SBL; 1.5m away from the curb 14 U, 622200 E, 5528322 N	-	150	48.69
	2	Joint; Side of House # 74 Voyageur Ave, SBL; 1.5m away from the curb 14 U, 622204 E, 5528430 N	20 ^A	160 ^A	-
	3	Joint; Front of House # 46 Bellavista Cr, WBL; 1.5m away from the curb 14 U, 624203 E, 5524453 N	-	155 ^A	-
	4	Mid Slab; Front of House # 39 Bellavista Cr, WBL; 2m away from the curb 14 U, 624202 E, 552448 N	-	160	45.9
	5	Mid Slab; Front of House # 18 Bellavista Cr, EBL; 2m away from the curb 14 U, 622392 E, 5528350 N	-	175	45.82
Cora Av - Whitegates Cr/Maureen St	1	Joint; Front of House # 31 Cora Ave, WBL; 1.5m away from the curb 14 U, 621943 E, 5525376 N	-	95 ^A	-
	2	Mid Slab; Front of House # 22 Cora Ave, EBL; 2m away from the curb 14 U, 621981 E, 5525364 N	-	165	53.23
Denton PI - Grant Av/End	1	Mid Slab; Front of House # 7 Denton PI; 1.5m away from the curb 14 U, 624203 E, 5524453 N	50 ^A	120 ^A	-
	2	Mid Slab; Front of House # 7 Denton PI; 1.5m away from the curb 14 U, 624203 E, 5524453 N	-	170 ^A	-
	3	Joint; Front of House # 19 Denton PI; 2m away from the curb 14 U, 622392 E, 5528350 N	-	170 ^A	-
	4	Mid Slab; Front of House # 19 Denton PI; 1m away from the curb 14 U, 624200 E, 5524486 N	5	150 ^A	-
	5	Mid Slab; Front of House # 11 Denton PI; 3 away from the curb 14 U, 624209 E, 5524484 N	-	130 ^A	-
	6	Mid Slab; Front of House # 7 Denton PI; 2m away from the curb 14 U 624213 E 5524478 N	25	150 ^A	-

Note:
^A - Thickness cannot be identified due to deterioration of sample during coring

Summary of Test Results

Rehabilitation Sites	Core Hole No.	Core Hole Location	Asphalt Thickness (mm)	Concrete Thickness (mm)	Compressive Strength (MPa)
Golf Bv - McBey Av/Meadowside Dr	1	Mid Slab; Front of House # 437 Golf Blvd., NBL; 1.5m away from the curb 14 U, 623149 E, 5526322 N	-	152	42.37
	2	Mid Slab; Front of House # 476 Golf Blvd., SBL; 1.5m away from the curb 14 U, 623157, E 5526464 N	-	144	38.61
Greenacre Bv - Portage Av/McBey Av	1	Mid Slab; Front of House # 503 Greenacre Blvd., NBL; 1.5m away from the curb 14 U, 623259 E, 5526555 N	-	140	40.16
	2	Mid Slab; Front of House # 536 Greenacre Blvd., SBL; 1.5m away from the curb 14 U, 623263 E, 5526663 N	-	121	56.1
Kilmer Av - Carroll Rd/Longfellow By	1	Mid Slab; Front of House # 63 Kilmer Ave, WBL; 1.5m away from the curb 14 U, 622500 E, 5525175 N	-	167	41.2
Radar Pl - Voyageur Av Rogan D	1	Joint; Side of House # 59 Rogan Dr, NBL; 1.5m away from the curb 14 U, 622370 E, 5528386 N	-	216 ^A	-
	2	Mid Slab; Front of House # 5 Radar Pl, NBL; 1.5m away from the curb 14 U, 622374 E, 5528421 N	-	163	49.23
Raquette St - Browning Bv/Assiniboine Av	1	Mid Slab; Front of House # 121 Raquette St, NBL; 1.5m away from the curb 14 U, 621717 E, 5525336 N	-	130	34.89
	2	Joint; Front of House # 129 Raquette St, NBL; 1.5m away from the curb 14 U, 621714 E, 5525362 N	45	157 ^A	-
	3	Joint; Front of House # 173 Raquette St, NBL; 2m away from the curb 14 U, 621721 E, 5525527 N	-	162 ^A	-
	4	Joint; Front of House # 193 Raquette St, NBL; 2m away from the curb 14 U, 621729 E, 5525612 N	12	153 ^A	-
	5	Mid Slab; Front of House # 242 Raquette St, SBL; 1m away from the curb 14 U, 621733 E, 5525800 N	-	150	39.18
Rogan Dr - Bellavista Cr/Hamilton Av	1	Mid Slab; Side of House # 73 Bellavista Cr, EBL; 1.5m away from the curb 14 U, 622230 E, 5528276 N	-	174	41.67
	2	Joint; Front of House # 78 Rogan Dr, NBL; 1.5m away from the curb 14 U, 622285 E, 5528340 N	-	220 ^A	-
	3	Mid Slab; Front of House # 51 Rogan Dr, WBL; 1.5m away from the curb 14 U, 622392 E, 5528350 N	-	181	42.05
	4	Mid Slab; Front of House # 35 Rogan Dr, NBL; 2m away from the curb 14 U, 622420 E, 5528310 N	-	150 ^A	-
	5	Joint; Side of House # 2 Bellavista Cr, EBL; 1.5m away from the curb 14 U, 622419 E, 5528173 N	-	180 ^A	-

Note:
^A - Thickness cannot be identified due to deterioration of sample during coring

Summary of Test Results

Rehabilitation Sites	Core Hole No.	Core Hole Location	Asphalt Thickness (mm)	Concrete Thickness (mm)	Compressive Strength (MPa)
West Av - Rouge Rd/Whitegates Cr	1	Mid Slab; Front of House # 8 West Ave, EBL; 1.5m away from the curb 14 U, 622087 E, 5525428 N	-	158	52.7
	2	Mid Slab; Front of House # 3 West Ave, WBL; 2m away from the curb 14 U, 622112 E, 5525432 N	-	158	47.04
Bedson St/Portage Ave Alley - Allard Av/Best St	1	Mid Slab; Backlane of House # 440 Best St.; 1m away from the edge of alley 14 U, 621635 E, 5526551 N	-	150	31.64
	2	Joint; Backlane of House # 476 Best St.; 1m away from the edge of alley 14 U, 621641 E, 5526686 N	-	220 ^A	-
	3	Joint; Backlane of House # 492 Best St.; 1m away from the edge of alley 14 U, 621643 E, 5526749 N	-	150 ^A	-
	4	Mid Slab; Backlane of House # 500 Best St.; 1.5m away from the edge of alley 14 U, 621644 E, 5526782 N	-	160	41.74
	5	Joint; Backlane of House # 520 Best St.; 1m away from the edge of alley 14 U, 621647 E, 5526849 N	-	172 ^A	-
	6	Joint; Backlane of House # 524 Best St.; 1m away from the edge of alley 14 U, 621648 E, 5526873 N	-	220 ^A	-
	7	Joint; Backlane of House # 528 Best St.; 1m away from the edge of alley 14 U, 621649 E, 5526879 N	-	143 ^A	-
	8	Mid Slab; Side of House # 532 Best St.; 1m away from the edge of alley 14 U, 621672 E, 5526909 N	-	148	38.53
Cathcart St/Woodfield By Alley - Woodfield By/Woodfield By	1	Joint; Backlane of House # 118 Woodfield Bay; 1.5m away from the edge of alley 14 U, 625613 E, 5523344 N	-	223 ^A	-
	2	Mid Slab; Backlane of House # 94 Woodfield Bay; 1.5m away from the edge of alley 14 U, 625616 E, 5523426 N	-	130	52.73
Olive St/Lodge Av Alley - Portage Av/Whytewold Rd	1	Joint; Alley near Commercial Bldg. 2491 Portage Ave; 1m away from the edge of alley 14 U, 625290 E, 5526279 N	25	140	-
	2	Mid Slab; Alley near parking lot of Commercial Bldg. 2475 Portage Ave; 1m away from the edge of alley 14 U, 625367 E, 5526291 N	-	160	-

Note:

^A - Thickness cannot be identified due to deterioration of sample during coring

Summary of Test Results

Thompson Dr/Lodge Av Alley - Portage Av/Wallasey St	1	Mid Slab; Alley near Commercial Bldg. 2609 Portage Ave; 1m away from the edge of alley 14 U, 624565 E, 5526390 N	-	160	46.48
	2	Joint; Alley near Commercial Bldg. 2607 Portage Ave; 1m away from the edge of alley 14 U, 624592 E, 5526380 N	-	165	-
Wallasey St/Lodge Av Alley - Portage Av/Aldine St	1	Mid Slab; Alley near parking lot of Commercial Bldg. 2595 Portage Ave; 1m away from the edge of alley 14 U, 624656 E, 5526355 N	-	151	-
	2	Joint; Alley near parking lot of Commercial Bldg. 2589 Portage Ave; 1m away from the edge of alley 14 U, 624692 E, 5526339 N	50	60	-
Whytefold Rd/Lodge Av Alley - Portage Av/Vernon Rd	1	Joint; Alley near Apartment Bldg. 2491 Portage Ave; 1m away from the edge of alley 14 U, 625423 E, 5526301 N	-	121	-
	2	Mid Slab; Alley near Apartment Bldg. 2441 Portage Ave; 1m away from the edge of alley 14 U, 625480 E, 5526309 N	-	140	-

Note:

^A - Thickness cannot be identified due to deterioration of sample during coring

APPENDIX A.1

ADDINGTON BAY - N LEG

(OAKDALE DR TO END OF ADDINGTON BY)

Rehabilitation Sites

Pavement Coring Locations



Rehabilitation Sites

Pavement Structure Measurement

CORE HOLE NO.	CORE HOLE LOCATION	PAVEMENT STRUCTURE	
		ASPHALT THICKNESS (mm)	CONCRETE THICKNESS (mm)
Addington By/N leg - Oakdale Dr/End			
1	Mid Slab; Front of House # 19 Addington Bay, WBL; 1.5m away from the curb 14 U, 624147 E, 5523250 N	80 ^A	150 ^A
2	Mid Slab; Side of House # 812 Oakdale Dr, EBL; 2m away from the curb 14 U, 624228 E, 5523244 N	-	140

Note:

^A - Thickness can not be identified due to deterioration of sample during coring

CONCRETE CORE COMPRESSIVE STRENGTH TEST REPORT (CSA A23.2 14C)

CLIENT:	AECOM Canada ULC 99 Commerce Drive, Winnipeg MB R3P 0Y7	DATE:	17-Dec-25
ATTENTION:	Ryan Cunningham	FILE NO:	112-2511
PROJECT:	2026 Local Street Renewal Program – 26-R-02 Various Locations	REPORT NO:	25-001
STRUCTURE:		TECHNOLOGIST:	M.V, S. DG, D.A
		DATE CORES TAKEN:	24-Nov-25 to Dec. 23
		DOCUMENT NO:	25-4618
		DATE RECEIVED IN LAB:	24-Nov-25 to Dec. 23

Core Location	Length as Drilled (mm)	Core Diameter (mm)	Tested Core Length (mm)	Length / Diameter (mm)	Correction Factor	Mass (kg)	Age at Break (days)	Date of Break	Type of Fracture	Comp. Strength as Calculated (MPa)	Comp. Strength as Corrected (MPa)
Core 2 - Addington By/N leg - Oakdale Dr/End	140	95	134	1.4	0.949	2.2	-	17-Dec-25	1	62.11	58.94

Remarks:

The core samples were tested in wet condition in accordance with CSA A23.2-14C.

Reviewed by:



Mayumi Kawano, Supervisor
Field & Lab Testing Services

Approved by:



Paul Bevel, Manager
Field & Lab Testing Services

Rehabilitation Sites - A

Picture of Cores

Addington By/N leg - Oakdale Dr/End



Core 1 - Mid Slab



Core 1 - Site Photo



Core 2 - Mid Slab



Core 2 - Site Photo

APPENDIX A.2

ADDINGTON BAY - S LEG

(OAKDALE DR TO END OF ADDINGTON BY)

Rehabilitation Sites

Pavement Coring Locations



Rehabilitation Sites

Pavement Structure Measurement

CORE HOLE NO.	CORE HOLE LOCATION	PAVEMENT STRUCTURE	
		ASPHALT THICKNESS (mm)	CONCRETE THICKNESS (mm)
Addington By/S leg - End/Oakdale Dr			
1	Mid Slab; Side of House # 824 Oakdale Dr, WBL; 1.5m away from the curb 14 U, 624207 E, 5523164 N	-	145

Note:

^A - Thickness can not be identified due to deterioration of sample during coring

CONCRETE CORE COMPRESSIVE STRENGTH TEST REPORT (CSA A23.2 14C)

CLIENT:	AECOM Canada ULC 99 Commerce Drive, Winnipeg MB R3P 0Y7	DATE:	17-Dec-25
ATTENTION:	Ryan Cunningham	FILE NO:	112-2511
PROJECT:	2026 Local Street Renewal Program – 26-R-02 Various Locations	REPORT NO:	25-001
STRUCTURE:		TECHNOLOGIST:	M.V, S. DG, D.A
		DATE CORES TAKEN:	24-Nov-25 to Dec. 23
		DOCUMENT NO:	25-4618
		DATE RECEIVED IN LAB:	24-Nov-25 to Dec. 23

Core Location	Length as Drilled (mm)	Core Diameter (mm)	Tested Core Length (mm)	Length / Diameter (mm)	Correction Factor	Mass (kg)	Age at Break (days)	Date of Break	Type of Fracture	Comp. Strength as Calculated (MPa)	Comp. Strength as Corrected (MPa)
Core 1 - Addington By/S leg - End/Oakdale Dr	145	95	115	1.2	0.920	2.0	-	17-Dec-25	1	41.53	38.21

Remarks:

The core samples were tested in wet condition in accordance with CSA A23.2-14C.

Reviewed by:



Mayumi Kawano, Supervisor
Field & Lab Testing Services

Approved by:



Paul Bevel, Manager
Field & Lab Testing Services

Rehabilitation Sites - A

Picture of Cores

Addington By/S leg - End/Oakdale Dr



Core 1 - Mid Slab



Core 1 - Site Photo

APPENDIX A.3

ALENBROOK BAY - S LEG

(OAKDALE DR TO END OF ALENBROOK BY)

Rehabilitation Sites

Pavement Coring Locations



Rehabilitation Sites

Pavement Structure Measurement

CORE HOLE NO.	CORE HOLE LOCATION	PAVEMENT STRUCTURE	
		ASPHALT THICKNESS (mm)	CONCRETE THICKNESS (mm)
Alenbrook By/S leg - Oakdale Dr/End			
1	Mid Slab; Front of House # 71 Alenbrook Bay, EBL; 1.5m away from the curb 14 U, 624159 E, 5522990 N	-	126

Note:

^A - Thickness can not be identified due to deterioration of sample during coring

CONCRETE CORE COMPRESSIVE STRENGTH TEST REPORT (CSA A23.2 14C)

CLIENT:	AECOM Canada ULC 99 Commerce Drive, Winnipeg MB R3P 0Y7	DATE:	17-Dec-25
ATTENTION:	Ryan Cunningham	FILE NO:	112-2511
PROJECT:	2026 Local Street Renewal Program – 26-R-02 Various Locations	REPORT NO:	25-001
STRUCTURE:		TECHNOLOGIST:	M.V, S. DG, D.A
		DATE CORES TAKEN:	24-Nov-25 to Dec. 23
		DOCUMENT NO:	25-4618
		DATE RECEIVED IN LAB:	24-Nov-25 to Dec. 23

Core Location	Length as Drilled (mm)	Core Diameter (mm)	Tested Core Length (mm)	Length / Diameter (mm)	Correction Factor	Mass (kg)	Age at Break (days)	Date of Break	Type of Fracture	Comp. Strength as Calculated (MPa)	Comp. Strength as Corrected (MPa)
Core 1 - Alenbrook By/S leg - Oakdale Dr/End	126	95	102	1.1	0.887	1.9	-	17-Dec-25	1	59.55	52.82

Remarks:

The core samples were tested in wet condition in accordance with CSA A23.2-14C.

Reviewed by:



Mayumi Kawano, Supervisor
Field & Lab Testing Services

Approved by:

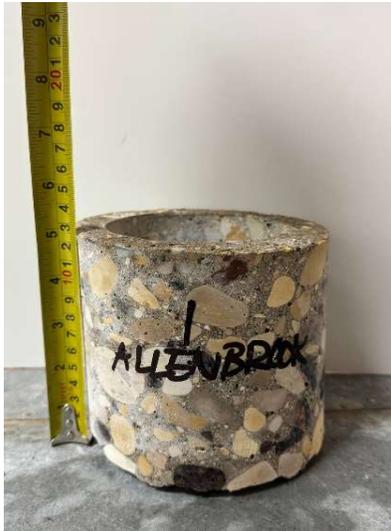


Paul Bevel, Manager
Field & Lab Testing Services

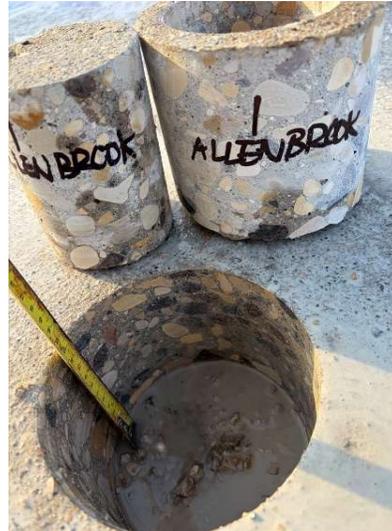
Rehabilitation Sites - A

Picture of Cores

Alenbrook By/S leg - Oakdale Dr/End



Core 1 - Mid Slab



Core 1 - Site Photo

APPENDIX A.4

BELLAVISTA CRESCENT

(VOYAGEUR AVE TO ROGAN DR NEAR
HAMILTON AVE)

Rehabilitation Sites

Pavement Coring Locations



Rehabilitation Sites

Pavement Structure Measurement

CORE HOLE NO.	CORE HOLE LOCATION	PAVEMENT STRUCTURE	
		ASPHALT THICKNESS (mm)	CONCRETE THICKNESS (mm)
Bellavista Cr - Voyageur Av/ Rogan Dr			
1	Mid Slab; Front of House # 86 Bellavista Cr, SBL; 1.5m away from the curb 14 U, 622200 E, 5528322 N	-	150
2	Joint; Side of House # 74 Voyageur Ave, SBL; 1.5m away from the curb 14 U, 622204 E, 5528430 N	20 ^A	160 ^A
3	Joint; Front of House # 46 Bellavista Cr, WBL; 1.5m away from the curb 14 U, 624203 E, 5524453 N	-	155 ^A
4	Mid Slab; Front of House # 39 Bellavista Cr, WBL; 2m away from the curb 14 U, 624202 E, 552448 N	-	160
5	Mid Slab; Front of House # 18 Bellavista Cr, EBL; 2m away from the curb 14 U, 622392 E, 5528350 N	-	175

Note:

^A - Thickness can not be identified due to deterioration of sample during coring

CONCRETE CORE COMPRESSIVE STRENGTH TEST REPORT (CSA A23.2 14C)

CLIENT:	AECOM Canada ULC 99 Commerce Drive, Winnipeg MB R3P 0Y7	DATE:	17-Dec-25
ATTENTION:	Ryan Cunningham	FILE NO:	112-2511
PROJECT:	2026 Local Street Renewal Program – 26-R-02 Various Locations	REPORT NO:	25-001
STRUCTURE:		TECHNOLOGIST:	M.V, S. DG, D.A
		DATE CORES TAKEN:	24-Nov-25 to Dec. 23
		DOCUMENT NO:	25-4618
		DATE RECEIVED IN LAB:	24-Nov-25 to Dec. 23

Core Location	Length as Drilled (mm)	Core Diameter (mm)	Tested Core Length (mm)	Length / Diameter (mm)	Correction Factor	Mass (kg)	Age at Break (days)	Date of Break	Type of Fracture	Comp. Strength as Calculated (MPa)	Comp. Strength as Corrected (MPa)
Core 1 - Bellavista Cr - Voyageur Av/ Rogan Dr	150	95	127	1.3	0.941	2.1	-	17-Dec-25	1	51.74	48.69
Core 4 - Bellavista Cr - Rogan Dr near Voyageur Ave/Rogan Dr near Hamilton	160	95	126	1.3	0.936	2.4	-	9-Jan-26	1	49.04	45.90
Core 5 - Bellavista Cr - Rogan Dr near Voyageur Ave/Rogan Dr near Hamilton	175	95	150	1.6	0.968	2.8	-	9-Jan-26	1	47.33	45.82

Remarks:

The core samples were tested in wet condition in accordance with CSA A23.2-14C.

Reviewed by:



Mayumi Kawano, Supervisor
Field & Lab Testing Services

Approved by:



Paul Bevel, Manager
Field & Lab Testing Services

Rehabilitation Sites - A

Picture of Cores

Bellavista Cr - Rogan Dr near Voyageur Ave/ Rogan Dr near Hamilton



Core 1 - Mid Slab



Core 1 - Site Photo



Core 2 - Poor Joint



Core 2 - Site Photo

Rehabilitation Sites - A

Picture of Cores

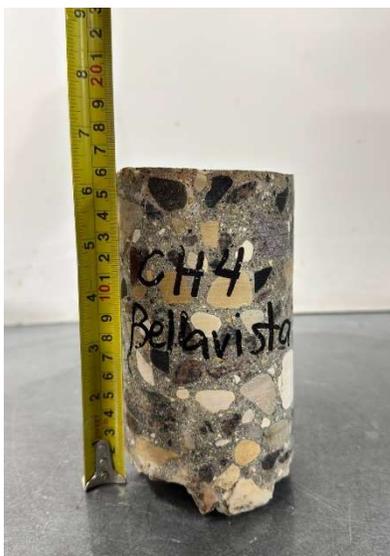
Bellavista Cr - Rogan Dr near Voyageur Ave/ Rogan Dr near Hamilton



Core 3 - Poor Joint



Core 3 - Site Photo



Core 4 - Mid Slab 4"



Core 4 - Site Photo

Rehabilitation Sites - A

Picture of Cores

Bellavista Cr - Rogan Dr near Voyageur Ave/ Rogan Dr near Hamilton



Core 5 - Mid Slab 4"



Core 5 - Site Photo

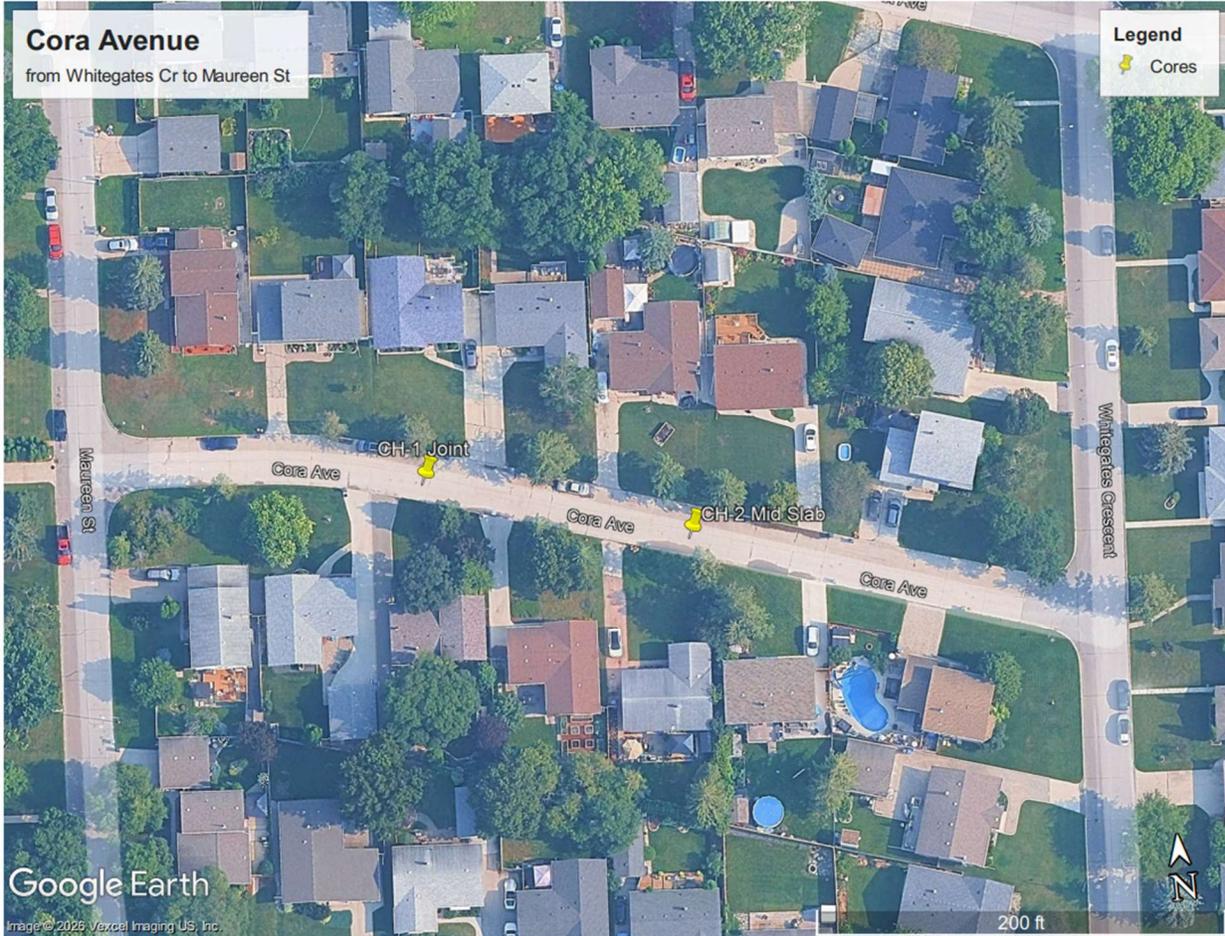
APPENDIX A.5

CORA AVENUE

(WHITEGATES CR TO MAUREEN ST)

Rehabilitation Sites

Pavement Coring Locations



Rehabilitation Sites

Pavement Structure Measurement

CORE HOLE NO.	CORE HOLE LOCATION	PAVEMENT STRUCTURE	
		ASPHALT THICKNESS (mm)	CONCRETE THICKNESS (mm)
Cora Av - Whitegates Cr/Maureen St			
1	Joint; Front of House # 31 Cora Ave, WBL; 1.5m away from the curb 14 U, 621943 E, 5525376 N	-	95 ^A
2	Mid Slab; Front of House # 22 Cora Ave, EBL; 2m away from the curb 14 U, 621981 E, 5525364 N	-	165

Note:

^A - Thickness can not be identified due to deterioration of sample during coring

CONCRETE CORE COMPRESSIVE STRENGTH TEST REPORT (CSA A23.2 14C)

CLIENT:	AECOM Canada ULC 99 Commerce Drive, Winnipeg MB R3P 0Y7	DATE:	17-Dec-25
ATTENTION:	Ryan Cunningham	FILE NO:	112-2511
PROJECT:	2026 Local Street Renewal Program – 26-R-02 Various Locations	REPORT NO:	25-001
STRUCTURE:		TECHNOLOGIST:	M.V, S. DG, D.A
		DATE CORES TAKEN:	24-Nov-25 to Dec. 23
		DOCUMENT NO:	25-4618
		DATE RECEIVED IN LAB:	24-Nov-25 to Dec. 23

Core Location	Length as Drilled (mm)	Core Diameter (mm)	Tested Core Length (mm)	Length / Diameter (mm)	Correction Factor	Mass (kg)	Age at Break (days)	Date of Break	Type of Fracture	Comp. Strength as Calculated (MPa)	Comp. Strength as Corrected (MPa)
Core 2 - Cora Av - Whitegates Cr/Maureen St	165	95	149	1.6	0.966	2.4	-	17-Dec-25	1	55.10	53.23

Remarks:

The core samples were tested in wet condition in accordance with CSA A23.2-14C.

Reviewed by:



Mayumi Kawano, Supervisor
Field & Lab Testing Services

Approved by:



Paul Bevel, Manager
Field & Lab Testing Services

Rehabilitation Sites - A

Picture of Cores

Cora Av - Whitegates Cr/Maureen St



Core 1 - Poor Joint



Core 1 - Site Photo



Core 2 - Mid Slab



Core 2 - Site Photo

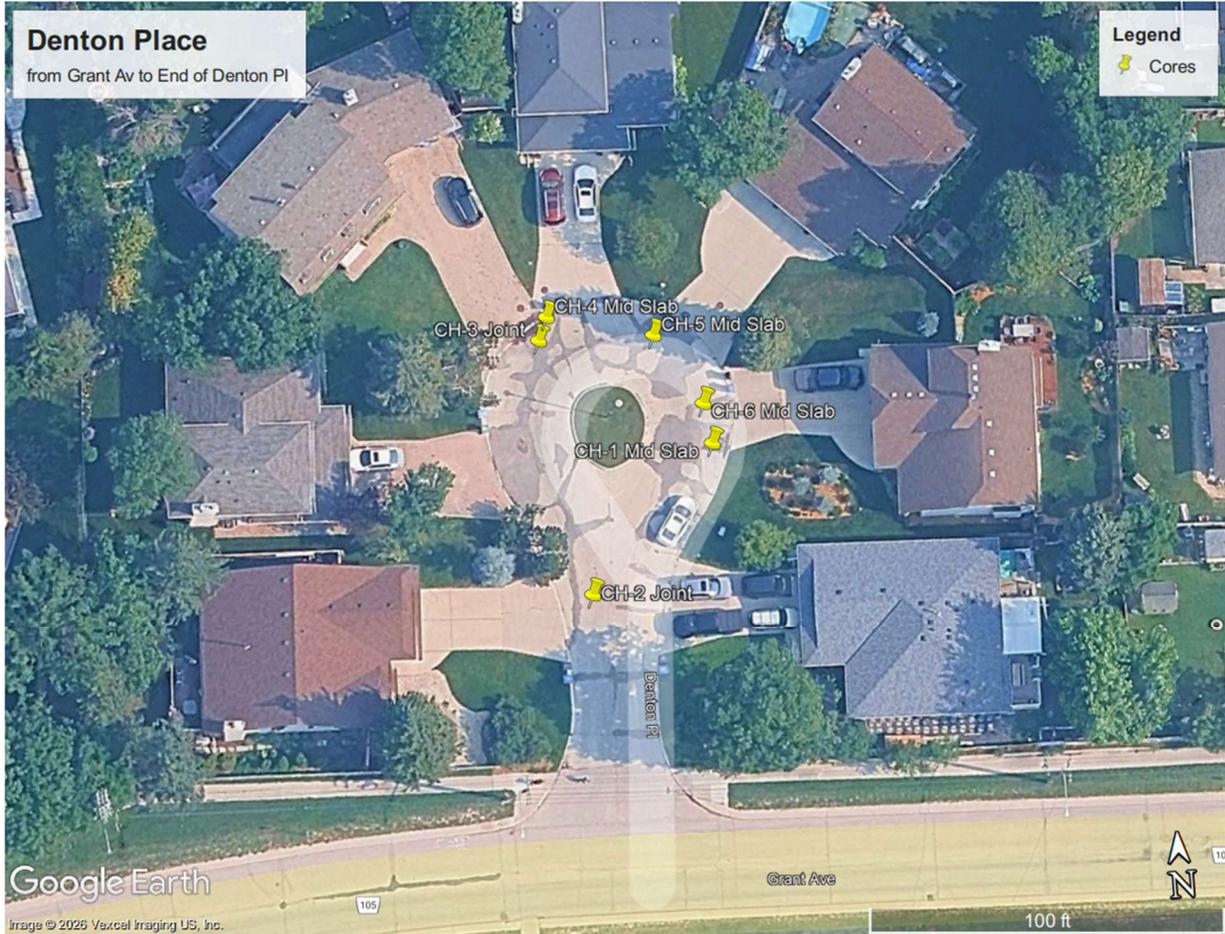
APPENDIX A.6

DENTON PLACE

(GRANT AVE TO END OF DENTON PL)

Rehabilitation Sites

Pavement Coring Locations



Rehabilitation Sites

Pavement Structure Measurement

CORE HOLE NO.	CORE HOLE LOCATION	PAVEMENT STRUCTURE	
		ASPHALT THICKNESS (mm)	CONCRETE THICKNESS (mm)
Denton PI - Grant Av/End			
1	Mid Slab; Front of House # 7 Denton PI; 1.5m away from the curb 14 U, 624203 E, 5524453 N	50 ^A	120 ^A
2	Mid Slab; Front of House # 7 Denton PI; 1.5m away from the curb 14 U, 624203 E, 5524453 N	-	170 ^A
3	Joint; Front of House # 19 Denton PI; 2m away from the curb 14 U, 622392 E, 5528350 N	-	170 ^A
4	Mid Slab; Front of House # 19 Denton PI; 1m away from the curb 14 U, 624200 E, 5524486 N	5	150 ^A
5	Mid Slab; Front of House # 11 Denton PI; 3 away from the curb 14 U, 624209 E, 5524484 N	-	130 ^A
6	Mid Slab; Front of House # 7 Denton PI; 2m away from the curb 14 U 624213 E 5524478 N	25	150 ^A

Note:

^A - Thickness can not be identified due to deterioration of sample during coring

Rehabilitation Sites - A

Picture of Cores

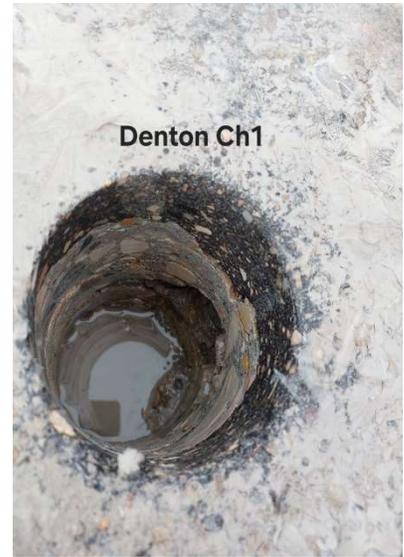
Denton PI - Grant Av/End



Core 1 - Mid Slab 6"



Core 1 - Mid Slab 4"



Core 1 - Site Photo



Core 2 - Poor Joint



Core 2 - Site Photo

Rehabilitation Sites - A

Picture of Cores

Denton PI - Grant Av/End



Core 3 - Poor Joint



Core 3 - Site Photo



Core 4



Core 4 - Site Photo

Rehabilitation Sites - A

Picture of Cores

Denton PI - Grant Av/End



Core 5 - Poor Joint



Core 5 - Site Photo



Core 5 - Site Photo



Core 6



Core 6 - Site Photo

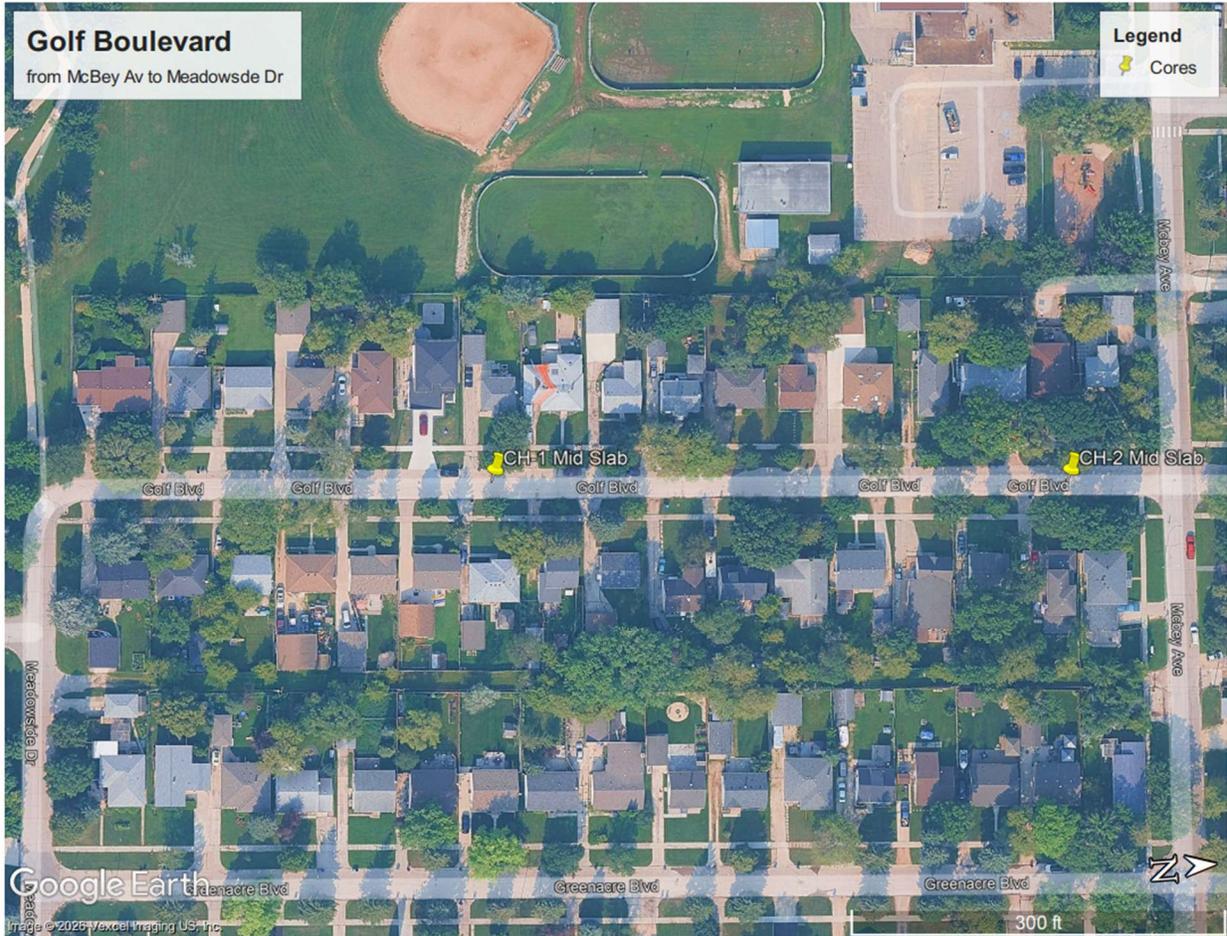
APPENDIX A.7

GOLF BOULEVARD

(MCBEY AVE TO MEADOWSDE DR)

Rehabilitation Sites

Pavement Coring Locations



Rehabilitation Sites

Pavement Structure Measurement

CORE HOLE NO.	CORE HOLE LOCATION	PAVEMENT STRUCTURE	
		ASPHALT THICKNESS (mm)	CONCRETE THICKNESS (mm)
Golf Bv - McBey Av/Meadowsde Dr			
1	Mid Slab; Front of House # 437 Golf Blvd., NBL; 1.5m away from the curb 14 U, 623149 E, 5526322 N	-	152
2	Mid Slab; Front of House # 476 Golf Blvd., SBL; 1.5m away from the curb 14 U, 623157, E 5526464 N	-	144

Note:

^A - Thickness can not be identified due to deterioration of sample during coring

CONCRETE CORE COMPRESSIVE STRENGTH TEST REPORT (CSA A23.2 14C)

CLIENT:	AECOM Canada ULC 99 Commerce Drive, Winnipeg MB R3P 0Y7	DATE:	17-Dec-25
ATTENTION:	Ryan Cunningham	FILE NO:	112-2511
PROJECT:	2026 Local Street Renewal Program – 26-R-02 Various Locations	REPORT NO:	25-001
STRUCTURE:		TECHNOLOGIST:	M.V, S. DG, D.A
		DATE CORES TAKEN:	24-Nov-25 to Dec. 23
		DOCUMENT NO:	25-4618
		DATE RECEIVED IN LAB:	24-Nov-25 to Dec. 23

Core Location	Length as Drilled (mm)	Core Diameter (mm)	Tested Core Length (mm)	Length / Diameter (mm)	Correction Factor	Mass (kg)	Age at Break (days)	Date of Break	Type of Fracture	Comp. Strength as Calculated (MPa)	Comp. Strength as Corrected (MPa)
Core 1 - Golf Bv - McBey Av/Meadowsde Dr	152	95	145	1.5	0.963	2.4	-	17-Dec-25	1	44.00	42.37
Core 2 - Golf Bv - McBey Av/Meadowsde Dr	144	95	130	1.4	0.944	2.1	-	17-Dec-25	1	40.90	38.61

Remarks:

The core samples were tested in wet condition in accordance with CSA A23.2-14C.

Reviewed by:



Mayumi Kawano, Supervisor
Field & Lab Testing Services

Approved by:



Paul Bevel, Manager
Field & Lab Testing Services

Rehabilitation Sites - A

Picture of Cores

Golf Bv - McBey Av/Meadowside Dr



Core 1 - Mid Slab



Core 1 - Mid Slab 4" Site Photo



Core 1 - Site Photo



Core 2 - Mid Slab



Core 2 - Mid Slab 4" Site Photo



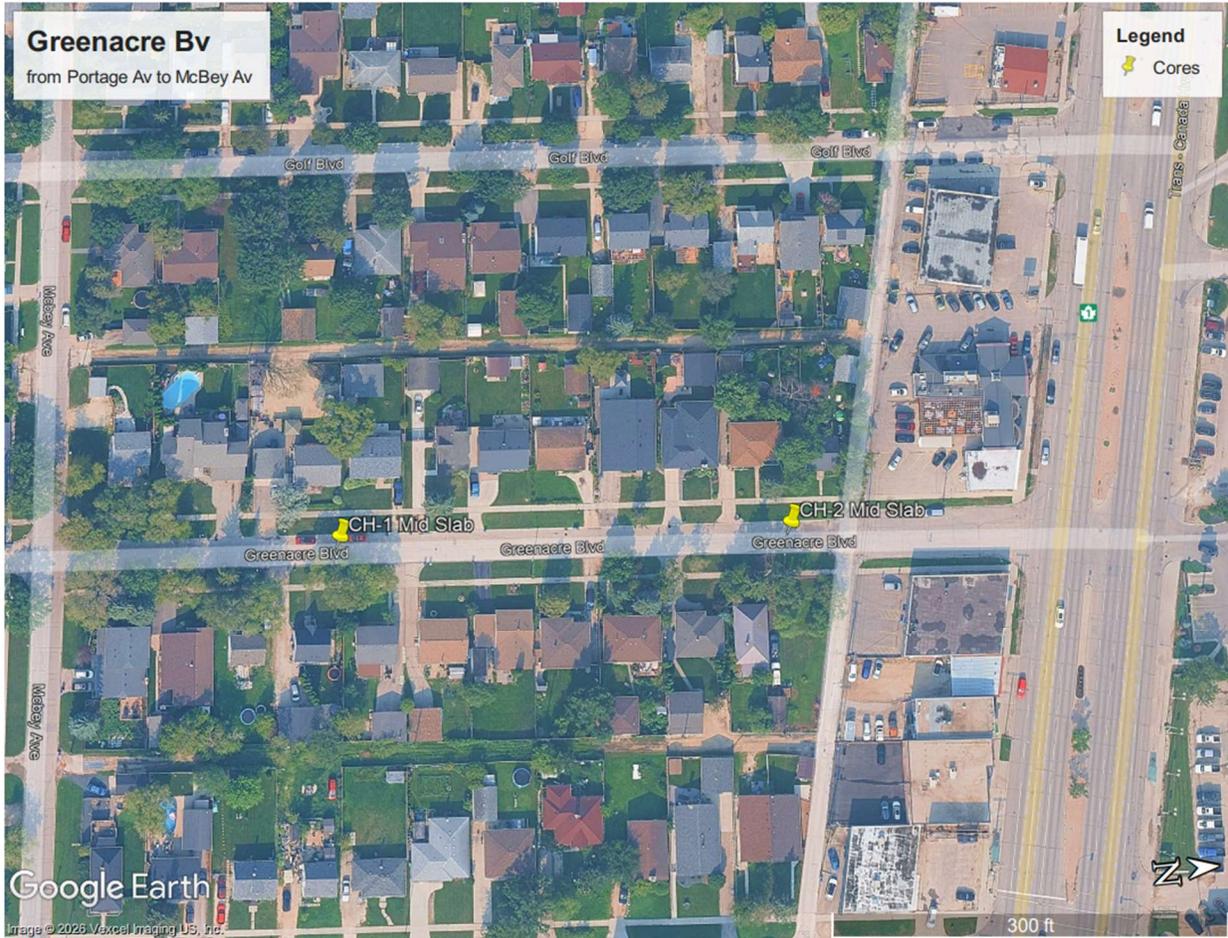
Core 2 - Site Photo

APPENDIX A.8

GREENACRE BOULEVARD (PORTAGE AVE TO MCBEY AVE)

Rehabilitation Sites

Pavement Coring Locations



Rehabilitation Sites

Pavement Structure Measurement

CORE HOLE NO.	CORE HOLE LOCATION	PAVEMENT STRUCTURE	
		ASPHALT THICKNESS (mm)	CONCRETE THICKNESS (mm)
Greenacre Bv - Portage Av/McBey Av			
1	Mid Slab; Front of House # 503 Greenacre Blvd., NBL; 1.5m away from the curb 14 U, 623259 E, 5526555 N	-	140
2	Mid Slab; Front of House # 536 Greenacre Blvd., SBL; 1.5m away from the curb 14 U, 623263 E, 5526663 N	-	121

Note:

^A - Thickness can not be identified due to deterioration of sample during coring

CONCRETE CORE COMPRESSIVE STRENGTH TEST REPORT (CSA A23.2 14C)

CLIENT:	AECOM Canada ULC 99 Commerce Drive, Winnipeg MB R3P 0Y7	DATE:	17-Dec-25
ATTENTION:	Ryan Cunningham	FILE NO:	112-2511
PROJECT:	2026 Local Street Renewal Program – 26-R-02 Various Locations	REPORT NO:	25-001
STRUCTURE:		TECHNOLOGIST:	M.V, S. DG, D.A
		DATE CORES TAKEN:	24-Nov-25 to Dec. 23
		DOCUMENT NO:	25-4618
		DATE RECEIVED IN LAB:	24-Nov-25 to Dec. 23

Core Location	Length as Drilled (mm)	Core Diameter (mm)	Tested Core Length (mm)	Length / Diameter (mm)	Correction Factor	Mass (kg)	Age at Break (days)	Date of Break	Type of Fracture	Comp. Strength as Calculated (MPa)	Comp. Strength as Corrected (MPa)
Core 1 - Greenacre Bv - Portage Av/McBey Av	135	95	120	1.3	0.931	2.0	-	17-Dec-25	1	43.14	40.16
Core 2 - Greenacre Bv - Portage Av/McBey Av	105	95	92	1.0	0.870	1.6	-	17-Dec-25	1	64.48	56.10

Remarks:

The core samples were tested in wet condition in accordance with CSA A23.2-14C.

Reviewed by:



Mayumi Kawano, Supervisor
Field & Lab Testing Services

Approved by:



Paul Bevel, Manager
Field & Lab Testing Services

Rehabilitation Sites - A

Picture of Cores

Greenacre Bv - Portage Av/McBey Av



Core 1 - Mid Slab



Core 1 - Site Photo



Core 2 - Mid Slab



Core 2 - Site Photo

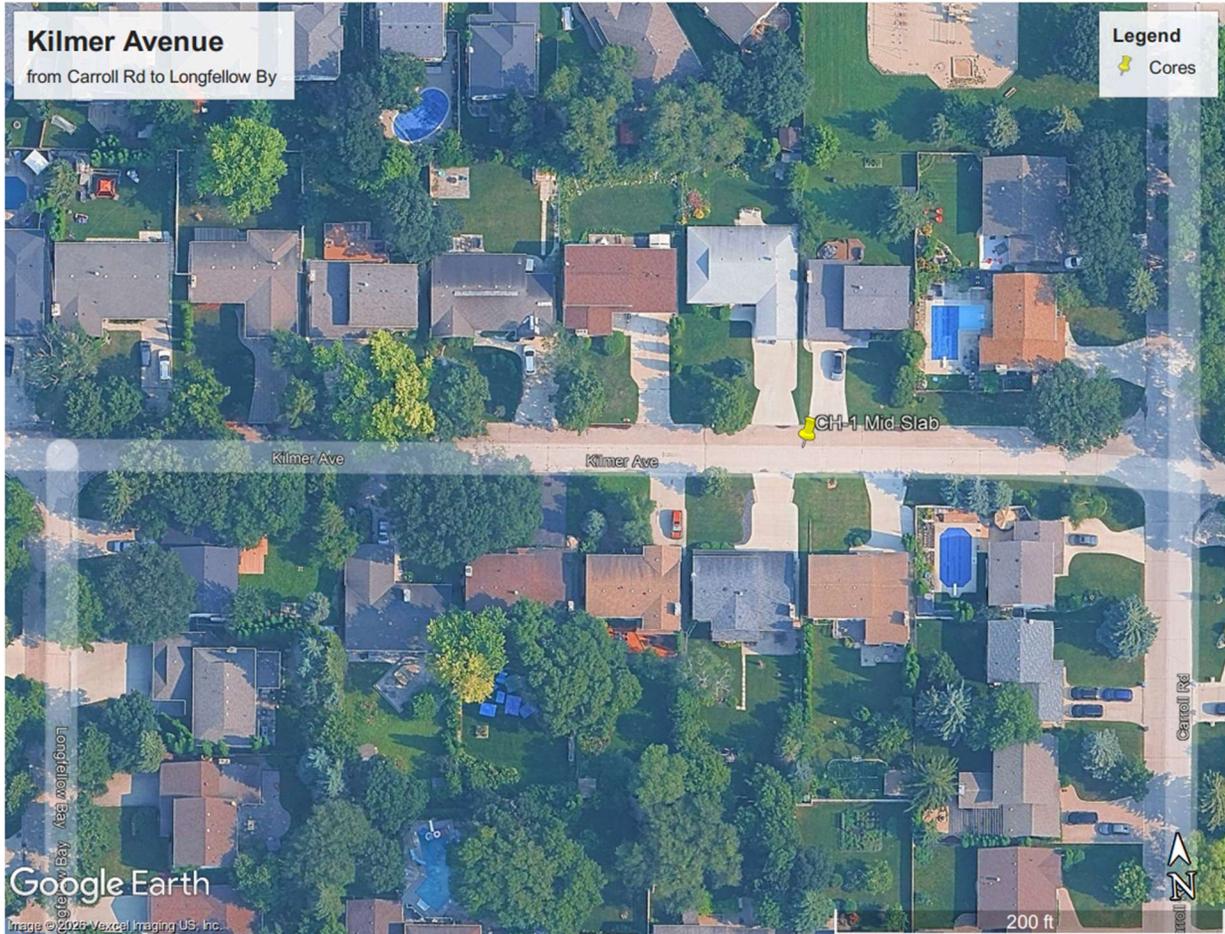
APPENDIX A.9

KILMER AVENUE

(CARROLL RD TO LONGFELLOW BY)

Rehabilitation Sites

Pavement Coring Locations



Rehabilitation Sites

Pavement Structure Measurement

CORE HOLE NO.	CORE HOLE LOCATION	PAVEMENT STRUCTURE	
		ASPHALT THICKNESS (mm)	CONCRETE THICKNESS (mm)
Kilmer Av - Carroll Rd/Longfellow By			
1	Mid Slab; Front of House # 63 Kilmer Ave, WBL; 1.5m away from the curb 14 U, 622500 E, 5525175 N	-	167

Note:

^A - Thickness can not be identified due to deterioration of sample during coring

CONCRETE CORE COMPRESSIVE STRENGTH TEST REPORT (CSA A23.2 14C)

CLIENT:	AECOM Canada ULC 99 Commerce Drive, Winnipeg MB R3P 0Y7	DATE:	17-Dec-25
ATTENTION:	Ryan Cunningham	FILE NO:	112-2511
PROJECT:	2026 Local Street Renewal Program – 26-R-02 Various Locations	REPORT NO:	25-001
STRUCTURE:		TECHNOLOGIST:	M.V, S. DG, D.A
		DATE CORES TAKEN:	24-Nov-25 to Dec. 23
		DOCUMENT NO:	25-4618
		DATE RECEIVED IN LAB:	24-Nov-25 to Dec. 23

Core Location	Length as Drilled (mm)	Core Diameter (mm)	Tested Core Length (mm)	Length / Diameter (mm)	Correction Factor	Mass (kg)	Age at Break (days)	Date of Break	Type of Fracture	Comp. Strength as Calculated (MPa)	Comp. Strength as Corrected (MPa)
Core 1 - Kilmer Av - Carroll Rd/Longfellow By	148	95	140	1.5	0.956	2.3	-	17-Dec-25	1	43.10	41.20

Remarks:

The core samples were tested in wet condition in accordance with CSA A23.2-14C.

Reviewed by:



Mayumi Kawano, Supervisor
Field & Lab Testing Services

Approved by:



Paul Bevel, Manager
Field & Lab Testing Services

Rehabilitation Sites - A

Picture of Cores

Kilmer Av - Carroll Rd/Longfellow By



Core 1 - Mid Slab



Core 1 - Mid Slab 4"



Core 1 - Site Photo

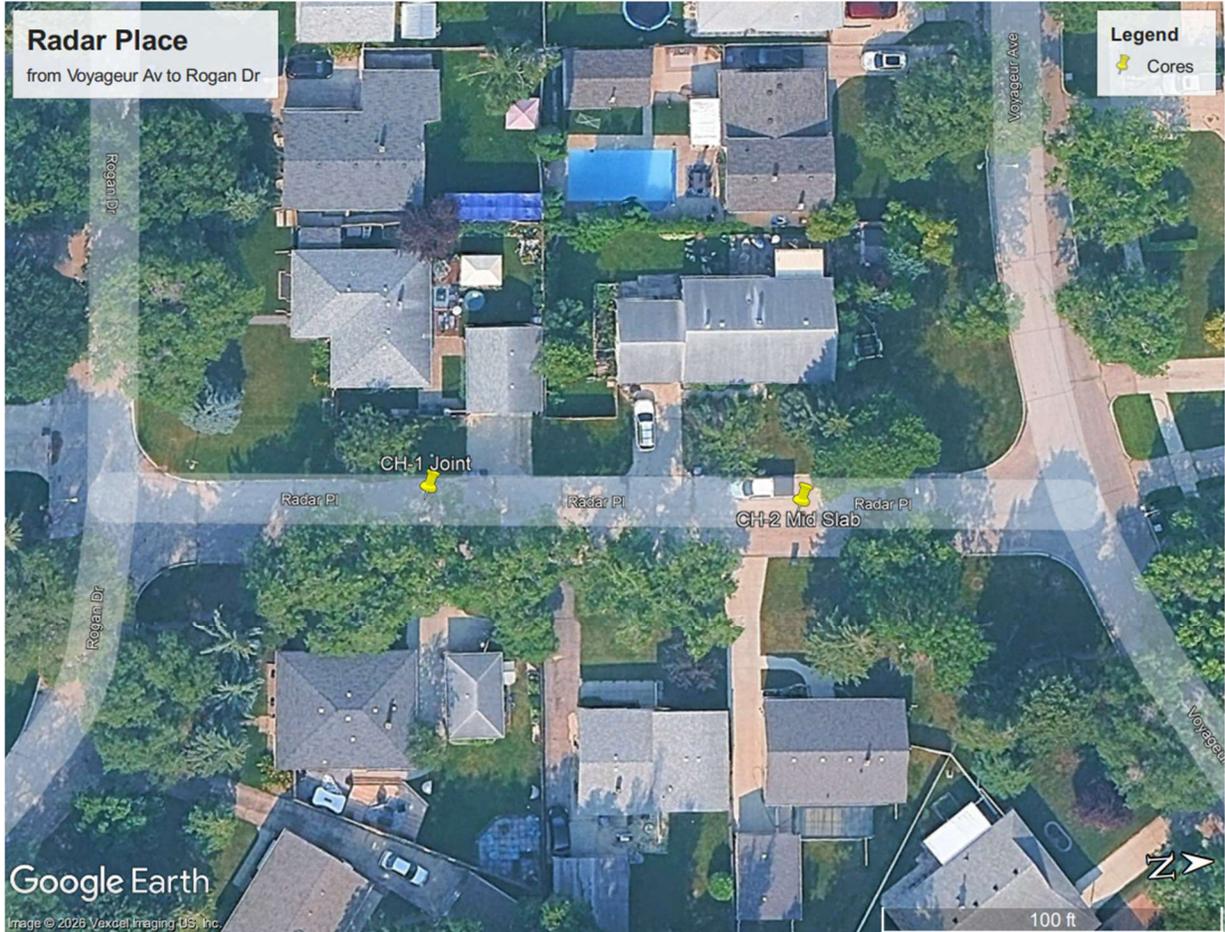
APPENDIX A.10

RADAR PLACE

(VOYAGEUR AVE TO ROGAN DR)

Rehabilitation Sites

Pavement Coring Locations



Rehabilitation Sites

Pavement Structure Measurement

CORE HOLE NO.	CORE HOLE LOCATION	PAVEMENT STRUCTURE	
		ASPHALT THICKNESS (mm)	CONCRETE THICKNESS (mm)
Radar PI - Voyageur Av/ Rogan Dr			
1	Joint; Side of House # 59 Rogan Dr, NBL; 1.5m away from the curb 14 U, 622370 E, 5528386 N	-	216 ^A
2	Mid Slab; Front of House # 5 Radar PI, NBL; 1.5m away from the curb 14 U, 622374 E, 5528421 N	-	163

Note:

^A - Thickness can not be identified due to deterioration of sample during coring

CONCRETE CORE COMPRESSIVE STRENGTH TEST REPORT (CSA A23.2 14C)

CLIENT:	AECOM Canada ULC 99 Commerce Drive, Winnipeg MB R3P 0Y7	DATE:	17-Dec-25
ATTENTION:	Ryan Cunningham	FILE NO:	112-2511
PROJECT:	2026 Local Street Renewal Program – 26-R-02 Various Locations	REPORT NO:	25-001
STRUCTURE:		TECHNOLOGIST:	M.V, S. DG, D.A
		DATE CORES TAKEN:	24-Nov-25 to Dec. 23
		DOCUMENT NO:	25-4618
		DATE RECEIVED IN LAB:	24-Nov-25 to Dec. 23

Core Location	Length as Drilled (mm)	Core Diameter (mm)	Tested Core Length (mm)	Length / Diameter (mm)	Correction Factor	Mass (kg)	Age at Break (days)	Date of Break	Type of Fracture	Comp. Strength as Calculated (MPa)	Comp. Strength as Corrected (MPa)
Core 2 - Radar Pl - Voyageur Av/ Rogan Dr	150	95	143	1.5	0.961	2.4	-	17-Dec-25	1	51.23	49.23

Remarks:

The core samples were tested in wet condition in accordance with CSA A23.2-14C.

Reviewed by:



Mayumi Kawano, Supervisor
Field & Lab Testing Services

Approved by:



Paul Bevel, Manager
Field & Lab Testing Services

Rehabilitation Sites - A

Picture of Cores

Radar PI - Voyageur Av/ Rogan Dr



Core 1 - Poor Joint



Core 1 - Site Photo



Core 2 - Mid Slab



Core 2 - Site Photo

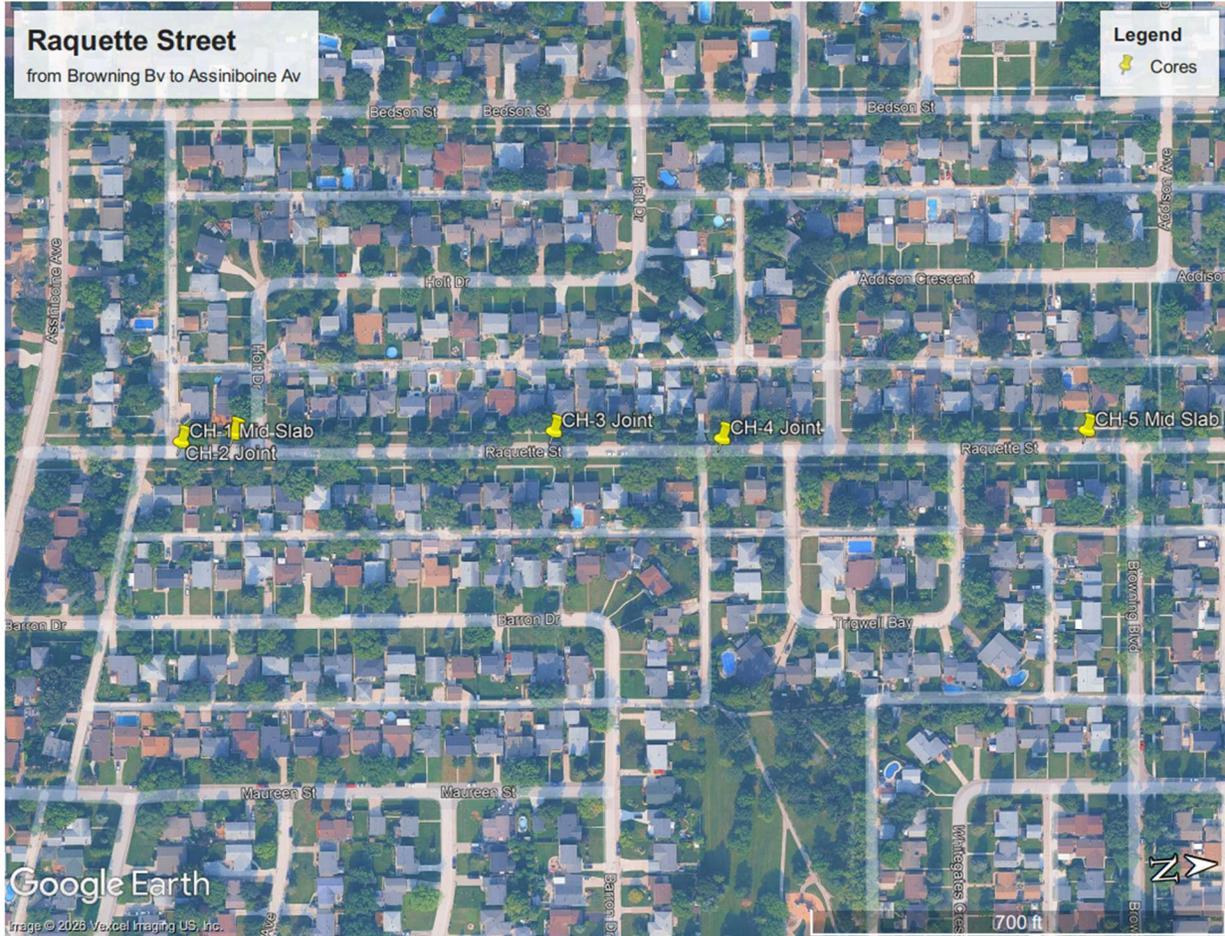
APPENDIX A.11

RAQUETTE STREET

(BROWNING BV TO ASSINIBOINE AVE)

Rehabilitation Sites

Pavement Coring Locations



Rehabilitation Sites

Pavement Structure Measurement

CORE HOLE NO.	CORE HOLE LOCATION	PAVEMENT STRUCTURE	
		ASPHALT THICKNESS (mm)	CONCRETE THICKNESS (mm)
Raquette St - Browning Bv/Assiniboine Av			
1	Mid Slab; Front of House # 121 Raquette St, NBL; 1.5m away from the curb 14 U, 621717 E, 5525336 N	-	130
2	Joint; Front of House # 129 Raquette St, NBL; 1.5m away from the curb 14 U, 621714 E, 5525362 N	45	157 ^A
3	Joint; Front of House # 173 Raquette St, NBL; 2m away from the curb 14 U, 621721 E, 5525527 N	-	162 ^A
4	Joint; Front of House # 193 Raquette St, NBL; 2m away from the curb 14 U, 621729 E, 5525612 N	12	153 ^A
5	Mid Slab; Front of House # 242 Raquette St, SBL; 1m away from the curb 14 U, 621733 E, 5525800 N	-	150

Note:

^A - Thickness can not be identified due to deterioration of sample during coring

CONCRETE CORE COMPRESSIVE STRENGTH TEST REPORT (CSA A23.2 14C)

CLIENT:	AECOM Canada ULC 99 Commerce Drive, Winnipeg MB R3P 0Y7	DATE:	17-Dec-25
ATTENTION:	Ryan Cunningham	FILE NO:	112-2511
PROJECT:	2026 Local Street Renewal Program – 26-R-02 Various Locations	REPORT NO:	25-001
STRUCTURE:		TECHNOLOGIST:	M.V, S. DG, D.A
		DATE CORES TAKEN:	24-Nov-25 to Dec. 23
		DOCUMENT NO:	25-4618
		DATE RECEIVED IN LAB:	24-Nov-25 to Dec. 23

Core Location	Length as Drilled (mm)	Core Diameter (mm)	Tested Core Length (mm)	Length / Diameter (mm)	Correction Factor	Mass (kg)	Age at Break (days)	Date of Break	Type of Fracture	Comp. Strength as Calculated (MPa)	Comp. Strength as Corrected (MPa)
Core 1 - Raquette St - Browning Bv/Assiniboine Av	128	95	108	1.1	0.904	1.8	-	17-Dec-25	1	38.60	34.89
Core 5 - Raquette St - Browning Bv/Assiniboine Av	140	95	123	1.3	0.935	2.1	-	17-Dec-25	1	41.90	39.18

Remarks:

The core samples were tested in wet condition in accordance with CSA A23.2-14C.

Reviewed by:



Mayumi Kawano, Supervisor
Field & Lab Testing Services

Approved by:



Paul Bevel, Manager
Field & Lab Testing Services

Rehabilitation Sites - A

Picture of Cores

Raquette St - Browning Bv/Assiniboine Av



Core 1 - Mid Slab



Core 1 - Site Photo



Core 2 - Poor Joint



Core 2 - Site Photo

Rehabilitation Sites - A

Picture of Cores

Raquette St - Browning Bv/Assiniboine Av



Core 3 - Poor Joint



Core 3 - Site Photo



Core 4 - Poor Joint



Core 4 - Site Photo

Rehabilitation Sites - A

Picture of Cores

Raquette St - Browning Bv/Assiniboine Av



Core 5 - Mid Slab



Core 5 - Site Photo

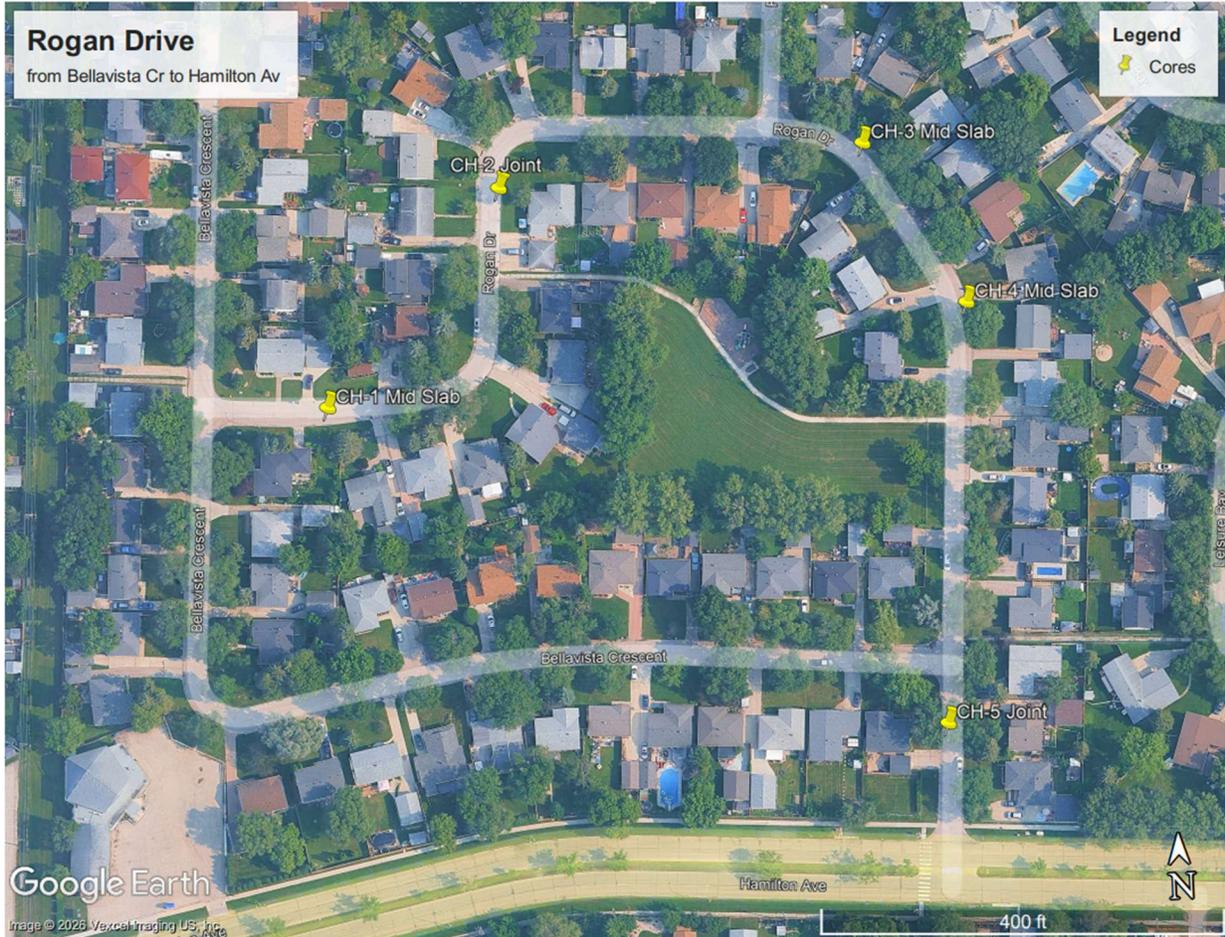
APPENDIX A.12

ROGAN DRIVE

(BELLAVISTA CR TO HAMILTON AVE)

Rehabilitation Sites

Pavement Coring Locations



Rehabilitation Sites

Pavement Structure Measurement

CORE HOLE NO.	CORE HOLE LOCATION	PAVEMENT STRUCTURE	
		ASPHALT THICKNESS (mm)	CONCRETE THICKNESS (mm)
Rogan Dr - Bellavista Cr/Hamilton Av			
1	Mid Slab; Side of House # 73 Bellavista Cr, EBL; 1.5m away from the curb 14 U, 622230 E, 5528276 N	-	174
2	Joint; Front of House # 78 Rogan Dr, NBL; 1.5m away from the curb 14 U, 622285 E, 5528340 N	-	220 ^A
3	Mid Slab; Front of House # 51 Rogan Dr, WBL; 1.5m away from the curb 14 U, 622392 E, 5528350 N	-	181
4	Mid Slab; Front of House # 35 Rogan Dr, NBL; 2m away from the curb 14 U, 622420 E, 5528310 N	-	150 ^A
5	Joint; Side of House # 2 Bellavista Cr, EBL; 1.5m away from the curb 14 U, 622419 E, 5528173 N	-	180 ^A

Note:

^A - Thickness can not be identified due to deterioration of sample during coring

CONCRETE CORE COMPRESSIVE STRENGTH TEST REPORT (CSA A23.2 14C)

CLIENT:	AECOM Canada ULC 99 Commerce Drive, Winnipeg MB R3P 0Y7	DATE:	17-Dec-25
ATTENTION:	Ryan Cunningham	FILE NO:	112-2511
PROJECT:	2026 Local Street Renewal Program – 26-R-02 Various Locations	REPORT NO:	25-001
STRUCTURE:		TECHNOLOGIST:	M.V, S. DG, D.A
		DATE CORES TAKEN:	24-Nov-25 to Dec. 23
		DOCUMENT NO:	25-4618
		DATE RECEIVED IN LAB:	24-Nov-25 to Dec. 23

Core Location	Length as Drilled (mm)	Core Diameter (mm)	Tested Core Length (mm)	Length / Diameter (mm)	Correction Factor	Mass (kg)	Age at Break (days)	Date of Break	Type of Fracture	Comp. Strength as Calculated (MPa)	Comp. Strength as Corrected (MPa)
Core 1 - Rogan Dr - Bellavista Cr/Hamilton	174	95	144	1.5	0.960	2.8	-	9-Jan-26	1	43.41	41.67
Core 3 - Rogan Dr - Bellavista Cr/Hamilton	181	95	144	1.5	0.960	2.8	-	9-Jan-26	1	43.80	42.05

Remarks:

The core samples were tested in wet condition in accordance with CSA A23.2-14C.

Reviewed by:



Mayumi Kawano, Supervisor
Field & Lab Testing Services

Approved by:



Paul Bevel, Manager
Field & Lab Testing Services

Rehabilitation Sites - A

Picture of Cores

Rogan Dr - Bellavista Cr/Hamilton Av



Core 1 - Mid Slab 4"



Core 1 - Site Photo



Core 2 - Poor Joint



Core 2 - Site Photo

Rehabilitation Sites - A

Picture of Cores

Rogan Dr - Bellavista Cr/Hamilton Av



Core 3 - Mid Slab 4"



Core 3 - Site Photo



Core 4 - Mid Slab 4"



Core 4 - Site Photo

Rehabilitation Sites - A

Picture of Cores

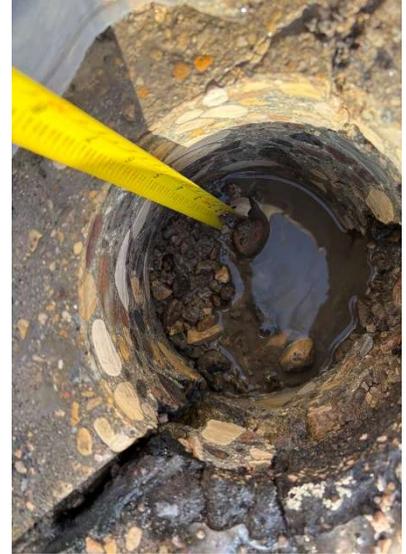
Rogan Dr - Bellavista Cr/Hamilton Av



Core 5 - Poor Joint



Core 5 - Side View



Core 5 - Site Photo

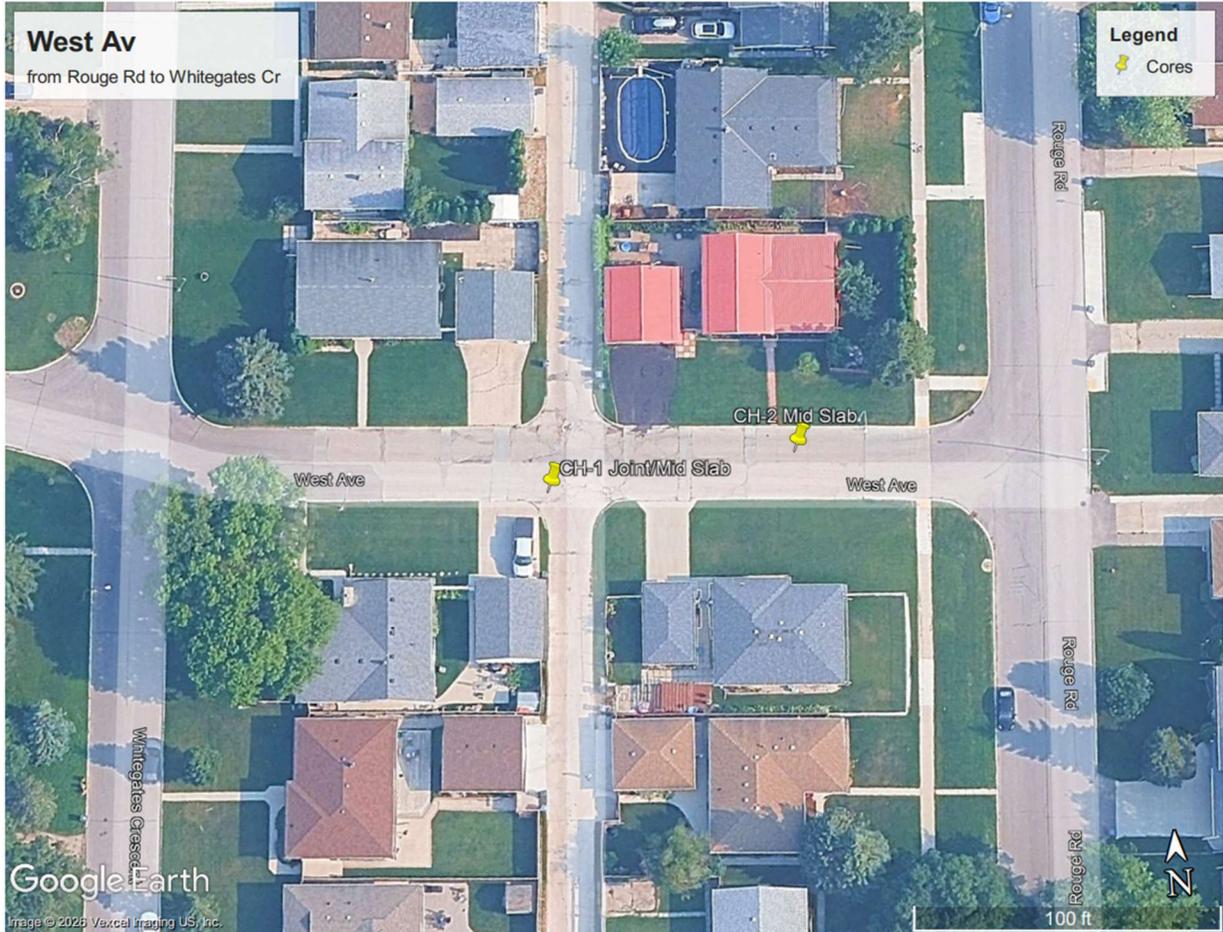
APPENDIX A.13

WEST AVENUE

(ROUGE RD TO WHITEGATES CR)

Rehabilitation Sites

Pavement Coring Locations



Rehabilitation Sites

Pavement Structure Measurement

CORE HOLE NO.	CORE HOLE LOCATION	PAVEMENT STRUCTURE	
		ASPHALT THICKNESS (mm)	CONCRETE THICKNESS (mm)
West Av - Rouge Rd/Whitegates Cr			
1	Mid Slab; Front of House # 8 West Ave, EBL; 1.5m away from the curb 14 U, 622087 E, 5525428 N	-	158
2	Mid Slab; Front of House # 3 West Ave, WBL; 2m away from the curb 14 U, 622112 E, 5525432 N	-	158

Note:

^A - Thickness can not be identified due to deterioration of sample during coring

CONCRETE CORE COMPRESSIVE STRENGTH TEST REPORT (CSA A23.2 14C)

CLIENT:	AECOM Canada ULC 99 Commerce Drive, Winnipeg MB R3P 0Y7	DATE:	17-Dec-25
ATTENTION:	Ryan Cunningham	FILE NO:	112-2511
PROJECT:	2026 Local Street Renewal Program – 26-R-02 Various Locations	REPORT NO:	25-001
STRUCTURE:		TECHNOLOGIST:	M.V, S. DG, D.A
		DATE CORES TAKEN:	24-Nov-25 to Dec. 23
		DOCUMENT NO:	25-4618
		DATE RECEIVED IN LAB:	24-Nov-25 to Dec. 23

Core Location	Length as Drilled (mm)	Core Diameter (mm)	Tested Core Length (mm)	Length / Diameter (mm)	Correction Factor	Mass (kg)	Age at Break (days)	Date of Break	Type of Fracture	Comp. Strength as Calculated (MPa)	Comp. Strength as Corrected (MPa)
Core 1 - West Av - Rouge Rd/Whitegates Cr	158	95	137	1.4	0.953	2.3	-	17-Dec-25	1	55.30	52.70
Core 2 - West Av - Rouge Rd/Whitegates Cr	158	95	140	1.5	0.956	2.4	-	17-Dec-25	1	49.21	47.04

Remarks:

The core samples were tested in wet condition in accordance with CSA A23.2-14C.

Reviewed by:



Mayumi Kawano, Supervisor
Field & Lab Testing Services

Approved by:



Paul Bevel, Manager
Field & Lab Testing Services

Rehabilitation Sites - A

Picture of Cores

West Av - Rouge Rd/Whitegates Cr



Core 1 - Mid Slab



Core 1 - Site Photo



Core 2 - Mid Slab



Core 2 - Site Photo

APPENDIX A.14

BEDSON ST AND BEST ST ALLEY (PORTAGE AVE TO ALLARD AVE)

Rehabilitation Sites

Pavement Coring Locations



Rehabilitation Sites

Pavement Structure Measurement

CORE HOLE NO.	CORE HOLE LOCATION	PAVEMENT STRUCTURE	
		ASPHALT THICKNESS (mm)	CONCRETE THICKNESS (mm)
Bedson St/Portage Ave Alley - Allard Av/Best St			
1	Mid Slab; Backlane of House # 440 Best St.; 1m away from the edge of alley 14 U, 621635 E, 5526551 N	-	150
2	Joint; Backlane of House # 476 Best St.; 1m away from the edge of alley 14 U, 621641 E, 5526686 N	-	220 ^A
3	Joint; Backlane of House # 492 Best St.; 1m away from the edge of alley 14 U, 621643 E, 5526749 N	-	150 ^A
4	Mid Slab; Backlane of House # 500 Best St.; 1.5m away from the edge of alley 14 U, 621644 E, 5526782 N	-	160
5	Joint; Backlane of House # 520 Best St.; 1m away from the edge of alley 14 U, 621647 E, 5526849 N	-	172 ^A
6	Joint; Backlane of House # 524 Best St.; 1m away from the edge of alley 14 U, 621648 E, 5526873 N	-	220 ^A
7	Joint; Backlane of House # 528 Best St.; 1m away from the edge of alley 14 U, 621649 E, 5526879 N	-	143 ^A
8	Mid Slab; Side of House # 532 Best St.; 1m away from the edge of alley 14 U, 621672 E, 5526909 N	-	148

Note:

^A - Thickness can not be identified due to deterioration of sample during coring

CONCRETE CORE COMPRESSIVE STRENGTH TEST REPORT (CSA A23.2 14C)

CLIENT:	AECOM Canada ULC 99 Commerce Drive, Winnipeg MB R3P 0Y7	DATE:	17-Dec-25
ATTENTION:	Ryan Cunningham	FILE NO:	112-2511
PROJECT:	2026 Local Street Renewal Program – 26-R-02 Various Locations	REPORT NO:	25-001
STRUCTURE:		TECHNOLOGIST:	M.V, S. DG, D.A
		DATE CORES TAKEN:	24-Nov-25 to Dec. 23
		DOCUMENT NO:	25-4618
		DATE RECEIVED IN LAB:	24-Nov-25 to Dec. 23

Core Location	Length as Drilled (mm)	Core Diameter (mm)	Tested Core Length (mm)	Length / Diameter (mm)	Correction Factor	Mass (kg)	Age at Break (days)	Date of Break	Type of Fracture	Comp. Strength as Calculated (MPa)	Comp. Strength as Corrected (MPa)
Core 1 - Bedson St/Portage Ave Alley - Allard Av/Best St	150	95	135	1.4	0.950	2.2	-	17-Dec-25	1	33.30	31.64
Core 4 - Bedson St/Portage Ave Alley - Allard Av/Best St	160	95	149	1.6	0.966	2.3	-	17-Dec-25	1	43.21	41.74
Core 8 - Bedson St/Portage Ave Alley - Allard Av/Best St	148	95	130	1.4	0.944	2.1	-	17-Dec-25	1	40.82	38.53

Remarks:

The core samples were tested in wet condition in accordance with CSA A23.2-14C.

Reviewed by:



Mayumi Kawano, Supervisor
Field & Lab Testing Services

Approved by:



Paul Bevel, Manager
Field & Lab Testing Services

Rehabilitation Sites - A

Picture of Cores

Bedson St/Portage Ave Alley - Allard Av/Best St



Core 1 - Mid Slab



Core 1 - Site Photo



Core 2 - Poor Joint



Core 2 - Site Photo

Rehabilitation Sites - A

Picture of Cores

Bedson St/Portage Ave Alley - Allard Av/Best St



Core 3 - Poor Joint



Core 3 - Site Photo



Core 4 - Mid Slab



Core 4 - Site Photo

Rehabilitation Sites - A

Picture of Cores

Bedson St/Portage Ave Alley - Allard Av/Best St



Core 5 - Poor Joint



Core 5 - Site Photo



Core 6 - Poor Joint



Core 6 - Site Photo

Rehabilitation Sites - A

Picture of Cores

Bedson St/Portage Ave Alley - Allard Av/Best St



Core 7 - Poor Joint



Core 7 - Side View



Core 7 - Site Photo



Core 8 - Mid Slab



Core 8 - Site Photo

APPENDIX A.15

CATHCART ST AND WOODFIELD BAY ALLEY

(WOODFIELD BY TO WOODFIELD BY)

Rehabilitation Sites

Pavement Coring Locations



Rehabilitation Sites

Pavement Structure Measurement

CORE HOLE NO.	CORE HOLE LOCATION	PAVEMENT STRUCTURE	
		ASPHALT THICKNESS (mm)	CONCRETE THICKNESS (mm)
Cathcart St/Woodfield By Alley - Woodfield By/Woodfield By			
1	Joint; Backlane of House # 118 Woodfield Bay; 1.5m away from the edge of alley 14 U, 625613 E, 5523344 N	-	223 ^A
2	Mid Slab; Backlane of House # 94 Woodfield Bay; 1.5m away from the edge of alley 14 U, 625616 E, 5523426 N	-	130

Note:

^A - Thickness can not be identified due to deterioration of sample during coring

CONCRETE CORE COMPRESSIVE STRENGTH TEST REPORT (CSA A23.2 14C)

CLIENT:	AECOM Canada ULC 99 Commerce Drive, Winnipeg MB R3P 0Y7	DATE:	17-Dec-25
ATTENTION:	Ryan Cunningham	FILE NO:	112-2511
PROJECT:	2026 Local Street Renewal Program – 26-R-02 Various Locations	REPORT NO:	25-001
STRUCTURE:		TECHNOLOGIST:	M.V, S. DG, D.A
		DATE CORES TAKEN:	24-Nov-25 to Dec. 23
		DOCUMENT NO:	25-4618
		DATE RECEIVED IN LAB:	24-Nov-25 to Dec. 23

Core Location	Length as Drilled (mm)	Core Diameter (mm)	Tested Core Length (mm)	Length / Diameter (mm)	Correction Factor	Mass (kg)	Age at Break (days)	Date of Break	Type of Fracture	Comp. Strength as Calculated (MPa)	Comp. Strength as Corrected (MPa)
Core 2 - Cathcart St/Woodfield By Alley - Woodfield By/Woodfield By	130	95	114	1.2	0.918	1.9	-	17-Dec-25	1	57.44	52.73

Remarks:

The core samples were tested in wet condition in accordance with CSA A23.2-14C.

Reviewed by:



Mayumi Kawano, Supervisor
Field & Lab Testing Services

Approved by:



Paul Bevel, Manager
Field & Lab Testing Services

Rehabilitation Sites - A

Picture of Cores

Cathcart St/Woodfield By Alley - Woodfield By/Woodfield By



Core 1 - Poor Joint



Core 1 - Site Photo



Core 2 - Mid Slab



Core 2 - Site Photo

APPENDIX A.16

PORTAGE AVENUE AND LODGE AVENUE ALLEY

(OLIVE ST TO WHYTEWOLD RD)

Rehabilitation Sites

Pavement Coring Locations



Rehabilitation Sites

Pavement Structure Measurement

CORE HOLE NO.	CORE HOLE LOCATION	PAVEMENT STRUCTURE	
		ASPHALT THICKNESS (mm)	CONCRETE THICKNESS (mm)
Olive St/Lodge Av Alley - Portage Av/Whytewold Rd			
1	Joint; Alley near Commercial Bldg. 2491 Portage Ave; 1m away from the edge of alley 14 U, 625290 E, 5526279 N	25	140
2	Mid Slab; Alley near parking lot of Commercial Bldg. 2475 Portage Ave; 1m away from the edge of alley 14 U, 625367 E, 5526291 N	-	160

Note:

^A - Thickness can not be identified due to deterioration of sample during coring

Rehabilitation Sites - A

Picture of Cores

Olive St/Lodge Av Alley - Portage Av/Whytewold Rd



Core 1 - Poor Joint



Core 1 - Site Photo



Core 2 - Mid Slab



Core 2 - Site Photo

APPENDIX A.17

PORTAGE AVENUE AND LODGE AVENUE ALLEY (THOMPSON DR TO WALLASEY ST)

Rehabilitation Sites

Pavement Coring Locations



Rehabilitation Sites

Pavement Structure Measurement

CORE HOLE NO.	CORE HOLE LOCATION	PAVEMENT STRUCTURE	
		ASPHALT THICKNESS (mm)	CONCRETE THICKNESS (mm)
Thompson Dr/Lodge Av Alley - Portage Av/Wallasey St			
1	Mid Slab; Alley near Commercial Bldg. 2609 Portage Ave; 1m away from the edge of alley 14 U, 624565 E, 5526390 N	-	160
2	Joint; Alley near Commercial Bldg. 2607 Portage Ave; 1m away from the edge of alley 14 U, 624592 E, 5526380 N	-	165

Note:

^A - Thickness can not be identified due to deterioration of sample during coring

CONCRETE CORE COMPRESSIVE STRENGTH TEST REPORT (CSA A23.2 14C)

CLIENT:	AECOM Canada ULC 99 Commerce Drive, Winnipeg MB R3P 0Y7	DATE:	17-Dec-25
ATTENTION:	Ryan Cunningham	FILE NO:	112-2511
PROJECT:	2026 Local Street Renewal Program – 26-R-02 Various Locations	REPORT NO:	25-001
STRUCTURE:		TECHNOLOGIST:	M.V, S. DG, D.A
		DATE CORES TAKEN:	24-Nov-25 to Dec. 23
		DOCUMENT NO:	25-4618
		DATE RECEIVED IN LAB:	24-Nov-25 to Dec. 23

Core Location	Length as Drilled (mm)	Core Diameter (mm)	Tested Core Length (mm)	Length / Diameter (mm)	Correction Factor	Mass (kg)	Age at Break (days)	Date of Break	Type of Fracture	Comp. Strength as Calculated (MPa)	Comp. Strength as Corrected (MPa)
Core 1 - Thompson Dr/Lodge Av Alley - Portage Av/Wallasey St	160	95	150	1.6	0.966	2.4	-	17-Dec-25	1	48.12	46.48

Remarks:

The core samples were tested in wet condition in accordance with CSA A23.2-14C.

Reviewed by:



Mayumi Kawano, Supervisor
Field & Lab Testing Services

Approved by:



Paul Bevel, Manager
Field & Lab Testing Services

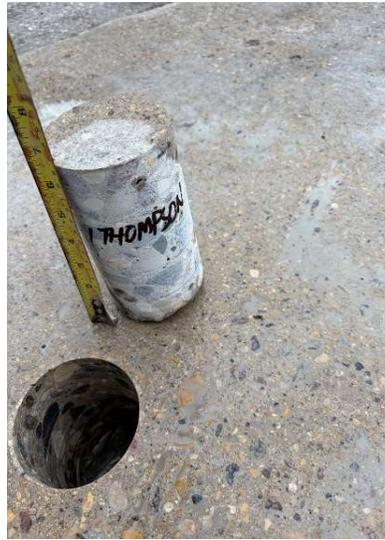
Rehabilitation Sites - A

Picture of Cores

Thompson Dr / Lodge Av Alley - Portage Av / Wallasey St.



Core 1 - Mid Slab



Core 1 - 4" Mid Slab



Core 1 - Site Photo



Core 2 - Poor Joint



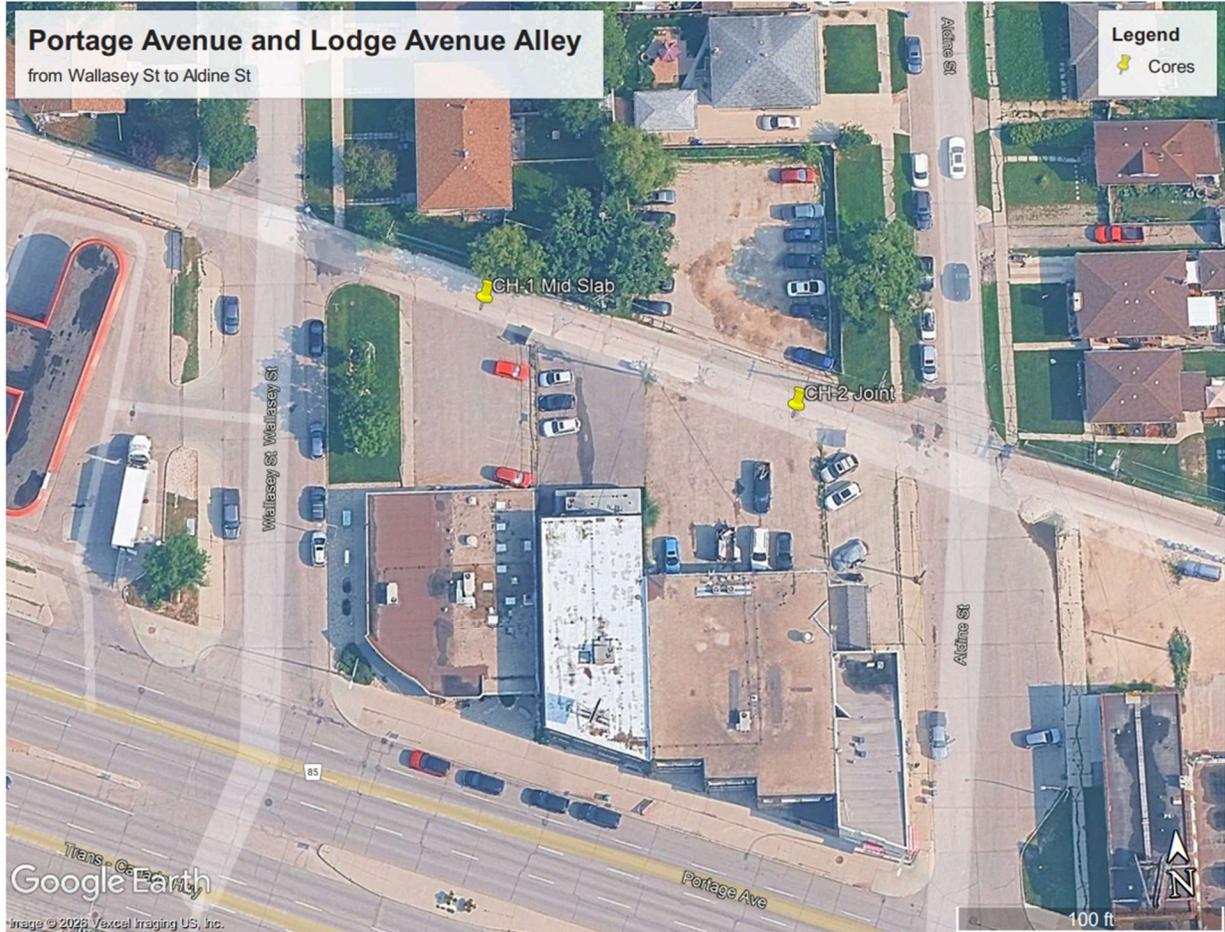
Core 2 - Site Photo

APPENDIX A.18

PORTAGE AVENUE AND LODGE AVENUE ALLEY (WALLASEY ST TO ALDINE ST)

Rehabilitation Sites

Pavement Coring Locations



Rehabilitation Sites

Pavement Structure Measurement

CORE HOLE NO.	CORE HOLE LOCATION	PAVEMENT STRUCTURE	
		ASPHALT THICKNESS (mm)	CONCRETE THICKNESS (mm)
Wallasey St/Lodge Av Alley - Portage Av/Aldine St			
1	Mid Slab; Alley near parking lot of Commercial Bldg. 2595 Portage Ave; 1m away from the edge of alley 14 U, 624656 E, 5526355 N	-	151
2	Joint; Alley near parking lot of Commercial Bldg. 2589 Portage Ave; 1m away from the edge of alley 14 U, 624692 E, 5526339 N	50	60

Note:

^A - Thickness can not be identified due to deterioration of sample during coring

Rehabilitation Sites - A

Picture of Cores

Wallasey St/Lodge Av Alley - Portage Av/Aldine St



Core 1 - Mid Slab



Core 1 - Site Photo



Core 2 - Poor Joint



Core 2 - Site Photo

APPENDIX A.19

PORTAGE AVENUE AND LODGE AVENUE ALLEY (WHYTEWOLD RD TO VERNON RD)

Rehabilitation Sites

Pavement Coring Locations



Rehabilitation Sites

Pavement Structure Measurement

CORE HOLE NO.	CORE HOLE LOCATION	PAVEMENT STRUCTURE	
		ASPHALT THICKNESS (mm)	CONCRETE THICKNESS (mm)
Whytewold Rd/Lodge Av Alley - Portage Av/Vernon Rd			
1	Joint; Alley near Apartment Bldg. 2491 Portage Ave; 1m away from the edge of alley 14 U, 625423 E, 5526301 N	-	121
2	Mid Slab; Alley near Apartment Bldg. 2441 Portage Ave; 1m away from the edge of alley 14 U, 625480 E, 5526309 N	-	140

Note:

^A - Thickness can not be identified due to deterioration of sample during coring

Rehabilitation Sites - A

Picture of Cores

Whytefold Rd/Lodge Av Alley - Portage Av/Vernon Rd



Core 1 - Poor Joint



Core 1 - Site Photo



Core 2 - Mid Slab



Core 2 - Site Photo