RM OF LA BROQUERIE

WASTEWATER TREATMENT LAGOON EXPANSION

PLAN INDEX

As-Built Drawing

Drawing compiled from visual observations of various parts of construction and/or from information by others. Accuracy not warranted. Independent verification required before application.

REDUCED DRAWING SET
DO NOT SCALE

JR Cousin Consultants Ltd.
91A Scurfield Blvd. Winnipeg MB R3Y 1G4
p. (204) 489-0474
f. (204) 489-0487
www.jrcc.ca

ENGINEERING CONSULTANTS

ENGINEERING EXCELLENCE SINCE 1981

MUNICIPALITE DE LABROQUERIE
TOUT D'EN HAUT
MANITOBA

DRAWING LEGEND:

PIPING:

- EXISTING WATERMAIN
- PROPOSED WATERMAIN
- FUTURE WATERMAIN
- EXISTING SEWERMAIN
- PROPOSED SEWERMAIN
- FUTURE SEWERMAIN
- EXISTING FORCEMAIN
- PROPOSED FORCEMAIN
- FUTURE FORCEMAIN
- EXISTING DISCHARGE
- PROPOSED DISCHARGE
- FUTURE DISCHARGE
- EXISTING RAW WATERMAIN
- PROPOSED RAW WATERMAIN
- FUTURE RAW WATERMAIN
- EXISTING LAND DRAINAGE SEWER
- PROPOSED LAND DRAINAGE SEWER
- FUTURE LAND DRAINAGE SEWER
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- EXISTING VALVE
- PROPOSED VALVE
- EXISTING CLEANOUT
- PROPOSED CLEANOUT
- EXISTING MANHOLE
- PROPOSED MANHOLE
- EXISTING CURBSTOP
- PROPOSED CURBSTOP
- EXISTING CATCH BASIN
- PROPOSED CATCH BASIN

ROADS AND DRAINAGE:

- EXISTING ROAD CENTERLINE
- PROPOSED ROAD CENTERLINE
- FUTURE ROAD CENTERLINE
- EXISTING ROAD SHOULDER
- PROPOSED ROAD SHOULDER
- EXISTING ROAD EDGE
- PROPOSED ROAD EDGE
- FUTURE ROAD EDGE
- EXISTING SIDEWALK
- PROPOSED SIDEWALK
- EXISTING DITCH
- PROPOSED DITCH
- EXISTING CULVERT
- PROPOSED CULVERT
- EXISTING DRAINAGE DIRECTION
- PROPOSED DRAINAGE DIRECTION
- CONTOURS – MAJOR INTERVALS
- CONTOURS – MINOR INTERVALS
- EXISTING GROUND ELEVATION
- PROPOSED GROUND ELEVATION
- EXISTING ROAD ELEVATION
- PROPOSED ROAD ELEVATION
- EXISTING SLOPE
- PROPOSED SLOPE

MISCELLANEOUS:

- EXISTING FENCE LINE
- PROPOSED FENCE LINE
- EXISTING HYDRO LINE
- PROPOSED HYDRO LINE
- EXISTING GAS LINE
- EXISTING MTS LINE
- EXISTING BUILDING
- PROPOSED BUILDING
- LEGAL/LOT LINE
- RAILWAY LINE
- MATCH LINE
- HYDRO POLE
- WATER HOLDING TANK
- SEPTIC TANK
- SEWAGE HOLDING TANK
- SURVEY BAR
- SURVEY MONUMENT/BENCHMARK
- TEST HOLE
- AMEC TH# TEST HOLE BY AMEC JANUARY 2014
- EXISTING VEGETATION
- PROPOSED VEGETATION
- DOOR CONSTRUCTION TYPE
- WALL CONSTRUCTION TYPE
- EASEMENT
- NORTH ARROW

EQUIPMENT:

- PUMP
- MAG METER
- GATE VALVE (GENERAL)
- BALL VALVE
- BUTTERFLY VALVE
- FLOW DIRECTION
- FLANGE CONNECTION
- PRESSURE GAUGE
- MOTORIZED VALVE (ANALOG – CONTROL)
- REDUCER

ABBREVIATIONS:

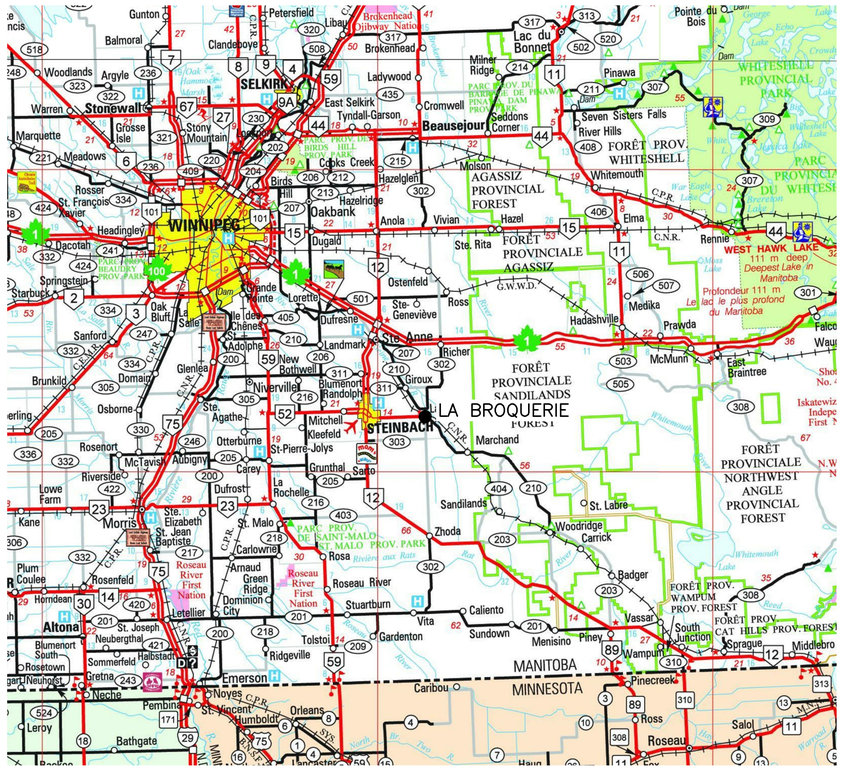
@	AT	E	EAST	JCT	JUNCTION	RAD	RADIUS
A/C	AIR CONDITIONING	EC	END OF CURVE	JP	JOCKEY PUMP	RD	ROAD
ALUM	ALUMINUM	EL	ELEVATION			REV	REVISION
ASPH	ASPHALT	ELEC	ELECTRICAL	LAB	LABORATORY	ROW	RIGHT OF WAY
AVE	AVENUE	EP	EDGE OF PAVEMENT	LAM	LAMINATE	RM	ROOM
AVG	AVERAGE	ER	EDGE OF ROAD	LAT	LATITUDE		
		E/W	EACHWAY	LDS	LAND DRAINAGE SEWER	S	SOUTH
BD	BOTTOM OF DITCH	EXT	EXTERIOR	LF	LEVEL FLOAT	SCH	SCHEDULE
BLDG	BUILDING			LLF	LOW LEVEL FLOAT	SECT	SECTION
BLVD	BOULEVARD	FAX	FAX MACHINE STAND	LONG	LONGITUDE	SHT	SHEET
BM	BENCHMARK	FC	FILE CABINET	LWL	LOW WATER LEVEL	SIB	STEEL IRON BAR
BOT	BOTTOM	FD	FLOOR DRAIN			SPEC	SPECIFICATION
BP	BACKWASH PUMP	F/F	FACE TO FACE	M	METRE	SQ	SQUARE
B/W	BOTHWAYS	FH	FIRE HYDRANT	MAX	MAXIMUM	SS	SOUTH SHORE
		FM	FORCEMAIN	MCC	MOTOR CONTROL CENTER	ST	STREET
CB	CATCH BASIN	FP	FIRE PUMP	MECH	MECHANICAL	STD	STANDARD
CI	CAST IRON	FT	FOOT, FEET	MEMB	MEMBRANE	SUSP	SUSPENDED
CHKD	CHECKED			MH	MANHOLE	SW	SIDEWALK
CNR	CANADIAN NATIONAL RAILWAY	GA	GAUGE	MIN	MINIMUM		
CO	CLEANOUT	GALV	GALVANIZED	MM	MILLIMETRE	TEL	TELEPHONE
COL	COLUMN	GAV	GATE VALVE			TEMP	TEMPORARY
CONC	CONCRETE			N	NORTH	TP	TRUCKFILL PUMP
CONST	CONSTRUCTION	HA	HECTARE	NAT	NATURAL	TYP	TYPICAL
CONT	CONTINUOUS	HB	HOSE BIBB	NBC	NATIONAL BUILDING CODE		
COORD	COORDINATE	HI	HEIGHT OF INSTRUMENT	NS	NORTH SHORE	VERT	VERTICAL
CPR	CANADIAN PACIFIC RAILWAY	HLF	HIGH LEVEL FLOAT	NTS	NOT TO SCALE	VOL	VOLUME
C/W	COMPLETE WITH	HPW	HIGH PRESSURE WATER LINE	NWL	NORMAL WATER LEVEL		
CSTE	CUSTOMER SERVICE TERMINAL ENTRANCE	HORIZ	HORIZONTAL			US	ULTRASONICS TRANSDUCER
		HP	HYDRO POLE	O/C	ON CENTRE		
DCW	DOMESTIC COLD WATER	HST	HYDROSTATIC TRANSDUCER	O/D	OUTSIDE DIAMETER	VAR	VARIES
DEG	DEGREE	HR	HOUR	O/F	OUTSIDE FACE	VB	VAPOUR BARRIER
DHW	DOMESTIC HOT WATER	HVAC	HEATING, VENTILATING AND AIR CONDITIONING	O/H	OVER HEAD	VERT	VERTICAL
DIA	DIAMETER			OD	OUTSIDE DIAMETER	VFD	VARIABLE FREQUENCY DRIVE
DIM	DIMENSION	HW	HOT WATER TANK	ORIG	ORIGINAL		
DIST	DISTANCE	HWL	HIGH WATER LEVEL	OWSJ	OPEN WEB STEEL JOIST	W	WEST
DN	DOWN					W/O	WITHOUT
DP	DUTY PUMP	ID	INSIDE DIAMETER	PLYWD	PLYWOOD	WL	WATER LEVEL
DR	DRIVE	IL	ICE LEVEL	PS	PRESSURE SEWER	WM	WATERMAIN
DWG	DRAWING	INCL	INCLUDE	POLY	POLYETHYLENE	WWS	WASTEWATER SEWER
		INT	INTERIOR	PROP	PROPERTY	WT	WEIGHT
		INV	INVERT	PVC	POLY VINYL CHLORIDE		

INSTRUMENTATION:

- TT TEMPERATURE TRANSMITTER
- PT PRESSURE TRANSDUCER
- DPG DIFFERENTIAL PRESSURE GAUGE

A/B — A – DETAIL NUMBER; B – PLAN WHERE DETAIL EXPANDED; C – PLAN WHERE DETAIL ORIGINATES (A/C B)

NOTE:
- WHOLE NUMBERS INDICATE MILLIMETERS
- DECIMALIZED NUMBERS REPRESENT METERS



KEY PLAN
SCALE = NTS

As-Built Drawing

Drawing compiled from visual observations of various parts of construction and/or from information by others. Accuracy not warranted. Independent verification required before application.

No.	REVISIONS	DATE	INITIALS
			B.M. EL.
			REFER TO PLAN GI2 FOR BENCHMARK LOCATION
			LOCATIONS OF UNDERGROUND STRUCTURES/UTILITIES AS SHOWN ARE BASED ON AVAILABLE INFORMATION BUT NO GUARANTEE IS GIVEN OR IMPLIED THAT ALL EXISTING UNDERGROUND STRUCTURES/UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL UNDERGROUND STRUCTURES/UTILITIES MUST BE OBTAINED FROM THE APPROPRIATE AUTHORITY/OWNER, BY THE CONTRACTOR, BEFORE PROCEEDING WITH CONSTRUCTION.
2	AS BUILT DRAWING	2018/03	RH
1	ISSUED FOR TENDER	2016/08	OT

APEGM Certificate of Authorization
J.R. Cousin Consultants Ltd.
No. 234 Date: 16/08/18

ENGINEER'S SEAL
ORIGINAL DRAWING SIGNED AND SEALED BY B.J.D. MCCORMAC 16/08/18

JR Cousin Consultants Ltd.
91A Scurfield Blvd. Winnipeg MB R3Y 1G4
p. (204) 489-0474
f. (204) 489-0487
www.jrcc.ca
ENGINEERING CONSULTANTS
ENGINEERING EXCELLENCE SINCE 1981

CODE: L–169.75
DESIGNED BY: BM
DRAWN BY: OT
REVIEWED BY: JC

PROJECT: RM OF LA BROQUERIE WASTEWATER TREATMENT LAGOON EXPANSION
TITLE: DRAWING LEGEND, ABBREVIATION INDEX AND KEY PLAN
SCALE: NTS | DATE: 15/05/26 | PLAN: GI1 | SHEET: 1 of 34

Jan 05, 2018 – 11:23am P:\1001-169 La Broquerie\169.75 Lagoon Expansion, Pre-Design and Design\04 Drawings\Record Drawings\GI1.dwg

As-Built Drawing

Drawing compiled from visual observations of various parts of construction and/or from information by others. Accuracy not warranted. Independent verification required before application.

SCALE BAR
(IN METRES)

120 0 60 120 240 360 480 600

1:6000

No.	REVISIONS	DATE	INITIALS
2	AS BUILT DRAWING	2018/03	RH
1	ISSUED FOR TENDER	2016/08	OT

B.M. EL.
PROJECT BENCHMARK: STANDING IRON BAR
N: 5488867.797
E: 680166.049
EL: 283.275

LOCATIONS OF UNDERGROUND STRUCTURES/UTILITIES AS SHOWN ARE BASED ON AVAILABLE INFORMATION BUT NO GUARANTEE IS GIVEN OR IMPLIED THAT ALL EXISTING UNDERGROUND STRUCTURES/UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL UNDERGROUND STRUCTURES/UTILITIES MUST BE OBTAINED FROM THE APPROPRIATE AUTHORITY/OWNER, BY THE CONTRACTOR, BEFORE PROCEEDING WITH CONSTRUCTION.

APEGM
Certificate of Authorization
J.R. Cousin Consultants Ltd.
No. 234 Date: 16/08/18

ENGINEER'S SEAL

ORIGINAL DRAWING SIGNED AND SEALED BY B.J.D. MCCORMAC 16/08/18

JR Cousin Consultants Ltd.
91A Scurfield Blvd. Winnipeg MB R3Y 1G4
p. (204) 489-0474
f. (204) 489-0487
www.jrcc.ca
ENGINEERING CONSULTANTS
ENGINEERING EXCELLENCE SINCE 1981

CODE: L-169.75
DESIGNED BY: BM
DRAWN BY: OT
REVIEWED BY: JC

PROJECT: RM OF LA BROQUERIE
WASTEWATER TREATMENT LAGOON EXPANSION

TITLE: OVERALL SITE PLAN

SCALE: 1:6000 | DATE: 15/05/26 | PLAN: GI2 | SHEET: 2 of 34

Mar 05, 2018 - 11:02am P:\1005\169 La Broquerie\169.75 Lagoon Expansion Pre-Design and Design\04 Drawings\Record Drawings\GI2.dwg