## **DRAWING INDEX**

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## **ABBREVIATIONS**

WWS	WASTEWATER SEWER
CS	COMBINED SEWER
LDS	LAND DRAINAGE SEWER
FRM	FORCE MAIN
ዊ	PROPERTY LINE
<b>Q</b>	CENTER LINE
G.I.S.	GEOGRAPHIC INFORMATION SYSTEM
B.M.	BENCH MARK
TH	TEST HOLE
ELEV	ELEVATION
INV	INVERT
MIN	MINIMUM
MAX	MAXIMUM
SL	STREET LIGHTING
TS	TRAFFIC SIGNALS
ABAND	ABANDONED
BLDG	BUILDING
HSE	HOUSE
CRN	CORNER
OPP	OPPOSITE
C/S OR S/C	CURB STOP
MTS	MANITOBA TELEPHONE SYSTEM
R.O.W.	RIGHT-OF-WAY
WM	WATER MAIN
FM	FEEDER MAIN
CULV	CULVERT
MH	MANHOLE
СВ	CATCH BASIN
CI	CURB INLET
VERT.	VERTICAL
HORZ.	HORIZONTAL
I.B.	IRON BAR
FIBRE	FIBRE OPTIC
TYP	TYPICAL
X-ING	CROSSING
HYD	HYDRANT
EXIST	EXISTING
N	NORTH
Ε	EAST
S	SOUTH
W	WEST
W/	WITH
C/W	CONSTRUCTED WITH
CONC	CONCRETE
AC	ASBESTOS CEMENT
VC OR CLAY	VITRIFIED CLAY
CI	CAST IRON
DI	DUCTILE IRON
PVC	POLYVINYL CHLORIDE
HDPE	HIGH DENSITY POLYETHYLENE
PCCP	PRESTRESSED CONCRETE CYLINDER PI
U/S	UPSTREAM
D/S	DOWNSTREAM

# <u>LEGEND</u>

	PLAN VIEW		
DESCRIPTION	ABANDONED	EXISTING	PROPOSED
WATER PIPE	<del></del>	<del></del>	<del></del>
FIRE HYDRANT		<b>-</b>	<b>+</b>
VALVE	$\otimes$	$\otimes$	8
CURB STOP	o^	o`	•
REDUCER	$\triangleleft$	$\triangleleft$	◀
COUPLING OR SLIDDER		χ	X
CROSS	<b>±</b>	<b>±</b>	<b>±</b>
BEND - 11.25°, 22.5°, 45°, 90°	H H 4 4	H 4 4 4	H H 4 4
TEE	ři.	д	д
VERTICAL BEND	Н	Н	н
ANODE		₽.	₹
REPAIR MARKER		₿	
PLUG	]	J	3
SEWER PIPE			
MANHOLE	0	0	•
CATCH BASIN			
CURB INLET	$\nabla$	$\nabla$	▼
JUNCTION			
© DITCH			
CULVERT		ф	<u>+</u>
SURVEY MANUMENT		<b>⊕</b> <b>▲</b>	<b>T</b>
SURVEY MONUMENT			
TREE - DECIDUOUS			
TREE - CONIFEROUS			
HYDRO			
HYDRO POLE		•н	
LAMP STANDARD		•••	
HYDRO POLE W/STREET LIGHTING		Н⊕⊸	
POLE		•	
GUY ANCHOR		(—	
M.T.S. POLE		<b>●</b> M	
PEDESTAL OR BOX		$\boxtimes$	
CABINET			
M.T.S., SHAW, OR VIDEON		· · ·	··_
TRAFFIC SIGNALS		<del></del>	<del></del>
TRAFFIC LIGHT STANDARD		<b>◆</b> →	
GAS			
STEAM			
FIBRE OPTIC			
FENCE		xx	xx
EDGE OF PAVEMENT OR GUTTER			
EDGE UNPAVED OR GRAVEL ROAD			
ዊ			
PROJECTED P			
LOT LINE			
SIDEWALK — PATHWAY EASEMENT			
EDGE OF BUILDING			
MAILBOX		M	
PARKING METER		P	
PARKING METER			
TEST HOLE		<b>◆</b>	◆

# **CONSTRUCTION NOTES**

UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

- 1. ALL MATERIALS TO CONFORM TO THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
- 2. EXPOSE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION TO CONFIRM DEPTH AND LOCATION. ANY CONFLICTS WITH EXISTING UNDERGROUND UTILITIES SHALL BE REPORTED TO THE CONTRACT ADMINISTRATOR PRIOR TO INSTALLATION.
- 3. CONTRACTOR TO SUBMIT DETAILED CONSTRUCTION SEQUENCING AND PROCEDURE PLAN.

# **HATCH PATTERNS**

EXISTING	PROPOSED	
		EARTH OR GROUND ABOVE PIPE
		SAND OR OTHER FINE MATERIAL
ν Δ . Δ · Δ		CONCRETE
. O . o . o . o . o . o . o . o . o . o		WASHED STONE OR GRANULAR MATERIAL
		INTERLOCKING STONE
		METAL
		GRAVEL OR STONE

#### SECTION & DETAIL SYMBOLS

REVISIONS

SECTION LETTER / DETAIL NUMBER
SHEET WHERE SECTION / DETAIL IS DRAWN
SHEET WHERE SECTION / DETAIL IS TAKEN

WATER DIRE			
WATER PIPE			•
HYDRANT TOP		+	+
VALVE	X	X	X
TEE OR CROSS		<del>-</del>	
TEE OR GROSS			V
COUPLING OR BEND			
REDUCER			
		(	(
END OF PIPE		8	δ
SEWER PIPE			
UNPAVED GROUND SURFACE			
PAVED GROUND SURFACE - & PIPE		xxx	
GUTTER (NORTH AND WEST)		·	
GUTTER (SOUTH AND EAST)		<u> </u>	
€ DITCH (NORTH AND WEST)			
€ DITCH (SOUTH AND EAST)			
STRUCTURE			
MANUALE OF CATOU BACK			! !
MANHOLE OR CATCH BASIN		 	i i

ABANDONED

**PROFILE** 

**EXISTING** 

PROPOSED

ENGINEER'S SEAL VERTICAL DATUM: CGVD28 (HT2.0 Geoid) LOCATION APPROVED Stantec UNDERGROUND STRUCTURES HORIZONTAL DATUM: NAD83 (June 1990), Zone 14 500 - 311 Portage Avenue, Winnipeg MB Canada R3B 2B9 Tel. 204.489.5900 Fax. 204.453.9012 www.stantec.com SUPV. U/G STRUCTURES COMMITTEE DESIGNED CHECKED ADB DRAWN APPROVED LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL LITURIES REFORE PROCEEDING WITH CONSTRUCTION DML RELEASED FOR CONSTRUCTION SCALE: HORIZONTAL CONSULTANT DRAWING NUMBER ISSUED FOR CONSTRUCTION VERTICAL STACY COURNOYER, P. Eng. 2025/04/07 NJK

YYYY/MM/DD BY

DATE

APRIL 7, 2025

DATE **APRIL 4, 2025** 

Winnipeg

THE CITY OF WINNIPEG

SHEET 2 OF 7

1-0798E-D0006-001

CITY DRAWING NUMBER

WATER AND WASTE DEPARTMENT ENGINEERING SERVICES DIVISION

CHARLESWOOD-ASSINIBOIA FEEDER MAIN RIVER CROSSING REHABILITATION

INDEX PAGE

**MANITOBA** Certificate of Authorization Stantec Consulting Ltd. No. 1301

ENGINEERS
GEOSCIENTISTS

METRIC WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES UNLESS OTHERWISE NOTED

TENDER NUMBER: 310-2025 CONTRACT NUMBER: N/A

DESCRIPTION

KEHLER

**Member** 

30100

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