

DRAWING INDEX

SHEET NUMBER	CITY OF WINNIPEG DRAWING NUMBER	DRAWING TITLE
27	12226	GOULDING STREET - 1ST MH N OF GOULDING STREET TO MH AT PORTAGE AVENUE (N OF ④)
28	12227	HARGRAVE STREET - 1ST MH S OF YORK AVENUE TO MH AT YORK AVENUE
29	12228	HEATON AVENUE - 1ST MH W OF WATERFRONT DRIVE TO MH AT ARGYLE STREET
30	12229	HENRY AVENUE - MH AT ARLINGTON STREET TO MH AT TRINITY STREET
31	12230	HIGGINS AVENUE - 2ND MH E OF HENRY AVENUE TO 3RD MH E OF HENRY AVENUE
32	12231	HIGGINS AVENUE - 3RD MH E OF HENRY AVENUE TO 4TH MH E OF HENRY AVENUE
33	12232	HIGGINS AVENUE - 4TH MH E OF HENRY AVENUE TO 5TH MH E OF HENRY AVENUE
34	12233	HIGGINS AVENUE - MH AT LIZZIE STREET TO MH AT STANLEY STREET
35	12234	INGERSOLL STREET - MH AT N-℞ GRUNDY AVENUE TO 1ST MH N GRUNDY STREET
36	12235	INGERSOLL STREET - 1ST MH S OF GRUNDY AVENUE TO MH AT GRUNDY AVENUE
37	12236	INKSTER BOULEVARD - MH AT ST CROSS STREET TO 1ST MH E OF ST CROSS STREET
38	12237	LANSDOWNE AVENUE - 1ST MH E OF ST CROSS STREET TO 2ND MH E OF ST CROSS STREET
39	12238	LENORE STREET - 2ND MH S OF WESTMINSTER AVENUE (④) TO 1ST MH S OF WESTMINSTER AVENUE
40	12239	LIZZIE STREET - MH AT HIGGINS AVENUE TO MH AT HENRY AVENUE
41	12240	LOGAN AVENUE - 1ST MH W TRINITY STREET TO MH AT TRINITY STREET
42	12241	MARGARET AVENUE - MH AT AIKINS STREET TO 1ST MH E OF AIKINS STREET
43	12242	MATHESON AVENUE EAST - MH AT COCHRANE STREET TO MH AT JONES STREET
44	12243	MCPHILLIPS STREET (④) - 1ST MH N LOGAN AVENUE TO MH AT LOGAN AVENUE
45	12244	MCPHILLIPS STREET (④) - MH AT HIGGINS AVENUE TO MH AT HILLOCK AVENUE
46	12245	MCPHILLIPS PUMPING STATION - MH AT 360 MCPHILLIPS PUMPING STATION TO 1ST MH N OF HENRY AVENUE
47	12246	MCPHILLIPS UNDERPASS PUMP STATION - PUMP STATION TO SOUTH CHAMBER AT MCPHILLIPS STREET WEST (℞)
48	12247	MINTO STREET - 1ST MH S WOLEVER AVENUE TO 1ST MH S PORTAGE AVENUE
49	12248	NEWMAN STREET - 2ND MH S OF PORTAGE AVENUE TO 1ST MH S OF PORTAGE AVENUE
50	12249	NOTRE DAME AVENUE - 1ST MH E OF DONALD STREET TO MH AT ARTHUR STREET (④)
51	12250	SINCLAIR STREET - 1ST MH S OF FLORA AVENUE TO 1ST MH N OF FLORA AVENUE
52	12251	SINCLAIR STREET - 1ST MH S OF DUFFERIN AVENUE TO MH AT DUFFERIN AVENUE
53	12252	SPENCE STREET - MH CUMBERLAND (N-℞) TO 1ST MH N SARGENT AVENUE
54	12253	ST MARY AVENUE - MH AT EDMONTON STREET TO 1ST MH E OF EDMONTON STREET
55	12254	ST MARY AVENUE (N-℞) - 1ST MH W OF VAUGHAN STREET TO MH AT MEMORIAL BOULEVARD
56	12255	STELLA AVENUE - MH AT ARLINGTON STREET (④) TO 2ND MH E OF ARLINGTON STREET
57	12256	YORK AVENUE (④) - 1ST MH W OF GARRY STREET TO MH AT SMITH STREET

ABBREVIATIONS

WWS	WASTE WATER SEWER
CS	COMBINED SEWER
LDS	LAND DRAINAGE SEWER
℞	PROPERTY LINE
④	CENTER LINE
G.I.S.	GEOGRAPHIC INFORMATION SYSTEM
B.M.	BENCH MARK
TH	TEST HOLE
ELEV	ELEVATION
INV	INVERT
MIN	MINIMUM
SL	STREET LIGHTING
TS	TRAFFIC SIGNALS
ABAND	ABANDONED
BLDG	BUILDING
HSE	HOUSE
C/S	CURB STOP
MTS	MANITOBA TELEPHONE SYSTEM
R.O.W.	RIGHT-OF-WAY
WM	WATERMAIN
CULV	CULVERT
MH	MANHOLE
CB	CATCH BASIN
CI	CURB INLET
VERT.	VERTICAL
HORZ.	HORIZONTAL
I.B.	IRON BAR
FIBRE	FIBRE OPTIC
X-ING	CROSSING
HYD	HYDRANT
EXIST	EXISTING
N	NORTH
E	EAST
S	SOUTH
W	WEST
WITH	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 PIPE

LEGEND

DESCRIPTION	PLAN VIEW		
	ABANDONED	EXISTING	PROPOSED
WATER PIPE	---	---	---
FIRE HYDRANT		⊕	⊕
VALVE	⊗	⊗	⊗
CURB STOP	⊙	⊙	⊙
REDUCER	▽	▽	▽
COUPLING OR SLIDDER		X	X
CROSS	⊕	⊕	⊕
BEND - 11.25°, 22.5°, 45°, 90°	H A A A A	H A A A A	H A A A A
TEE	H	H	H
VERTICAL BEND	H	H	H
ANODE		⤴	⤴
REPAIR MARKER		⊕	⊕
PLUG	J	J	J
SEWER PIPE	---	---	---
MANHOLE	○	○	●
CATCH BASIN	□	□	■
CURB INLET	▽	▽	▽
JUNCTION	---	---	---
℞ DITCH		---	---
CULVERT		---	---
SURVEY BAR		⊕	⊕
SURVEY MONUMENT		⊕	⊕
TREE - DECIDUOUS		⊙	⊙
TREE - CONIFEROUS		⊙	⊙
HYDRO		---	---
HYDRO POLE		⊕	⊕
LAMP STANDARD		⊕	⊕
HYDRO POLE W/STREET LIGHTING		⊕	⊕
POLE		⊕	⊕
GUY ANCHOR		⊕	⊕
M.T.S. POLE		⊕	⊕
PEDESTAL OR BOX		⊕	⊕
CABINET		⊕	⊕
M.T.S.		---	---
TRAFFIC SIGNALS		---	---
TRAFFIC LIGHT STANDARD		---	---
GAS		---	---
STEAM		---	---
FIBRE OPTIC		---	---
FENCE		---	---
EDGE OF PAVEMENT OR GUTTER		---	---
EDGE UNPAVED OR GRAVEL ROAD		---	---
℞		---	---
PROJECTED ℞		---	---
LOT LINE		---	---
SIDEWALK - PATHWAY		---	---
EASEMENT		---	---
EDGE OF BUILDING		---	---
MAILBOX		⊕	⊕
TEST HOLE		⊕	⊕
TREE LINE OR BUSH		---	---

CONSTRUCTION NOTES

- ALL PIPE SHALL HAVE CLASS B - TYPE 2 BEDDING
- INSTALL SEWER BY TRENCHLESS METHODS.
- CONFIRM THE LOCATION OF ALL SEWER SERVICES.
- BACKFILL UNDER PAVEMENT, IN SIDEWALKS, & WITHIN 1.0 OF PAVEMENT TO BE CLASS 3.
- BACKFILL IN BOULEVARD TO BE CLASS 5.
- RENEW SEWER SERVICES TO ℞.
- INSTALL SEWER SERVICE RISERS TO ELEVATION WHERE MINIMUM SLOPE OF 1% IS MAINTAINED FOR ALL SERVICES.

HATCH PATTERNS



LOCATION APPROVED UNDERGROUND STRUCTURES	B.M. ELEV.
SUPV. U/G STRUCTURES COMMITTEE	DATE
NOTE: 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 UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.	NO. REVISIONS DATE BY

DESIGNED BY	SC	CHECKED BY	SC
DRAWN BY	RS	APPROVED BY	KZ
SCALE: HORIZONTAL VERTICAL		RELEASED FOR CONSTRUCTION	S. COURNOYER
DATE	2019 07 12	DATE	2019 07 12

ENGINEER'S SEAL
ORIGINAL SIGNED BY S.R.J. COURNOYER 19/07/12
 CONSULTANT DRAWING NUMBER

THE CITY OF WINNIPEG

WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

2018 SEWER MAIN RENEWALS CONTRACT 5

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