

### DRAWING INDEX

SHEET NUMBER	CITY OF WINNIPEG DRAWING NUMBER	DRAWING TITLE
1	11986	COVER PAGE
2	11987	DRAWING INDEX, DESIGN NOTES, LEGEND, & ABBREVIATIONS
3	11988	DRAWING INDEX, DESIGN NOTES, LEGEND, & ABBREVIATIONS
4	11989	AGNES ARNOLD PLACE (W-LEG) - 1ST MH S OF CARTWRIGHT ROAD TO MH AT AGNES ARNOLD (S-LEG)
5	11990	ALBANY STREET - 2ND MH S OF SILVER AVENUE TO 1ST MH N OF NESS AVENUE
6	11991	ALBANY STREET - 1ST MH N OF BRUCE AVENUE TO 2ND MH S OF NESS AVENUE
7	11992	ASHBURN STREET - 1ST MH N OF ELLICE AVENUE TO 3RD MH N OF ELLICE AVENUE
8	11993	BERRY STREET - 2ND MH S OF NESS AVENUE TO 1ST MH S OF NESS AVENUE
9	11994	BISSETT CRESCENT (E-LEG) - MH AT VOYAGEUR AVENUE (S-LEG) TO 1ST MH N OF VOYAGEUR AVENUE
10	11995	BORDER STREET - MH AT POWELL AVENUE TO 1ST MH S OF POWELL AVENUE
11	11996	BOYD AVENUE - MH AT FIFE STREET TO 1ST MH E OF FIFE STREET
12	11997	BROOKLYN STREET - 1ST MH N OF SILVER AVENUE TO 2ND MH N OF SILVER AVENUE
13	11998	BROOKLYN STREET - 1ST MH S OF ST MATTHEWS AVENUE TO MH AT ST MATTHEWS AVENUE
14	11999	BUCHANAN BOULEVARD - 1ST MH N OF LUMSDEN AVENUE TO MH AT LUMSDEN AVENUE
15	12000	BURROWS AVENUE - 1ST MH E OF FIFE STREET TO 2ND MH E OF FIFE STREET
16	12001	CARRUTHERS AVENUE - 1ST MH E OF SINCLAIR STREET TO MH AT SINCLAIR STREET (E-LEG)
17	12002	CARTWRIGHT ROAD - MH AT AGNES ARNOLD PLACE TO 1ST MH W OF MANILA ROAD
18	12003	CHAPPARAL CRESCENT - MH AT CALVERT CRESCENT TO MH AT CIRRUS CLOSE
19	12004	COLLEGIATE STREET - 1ST MH S OF ST MATTHEWS AVENUE TO MH AT ST MATTHEWS AVENUE
20	12005	COLUMBUS CRESCENT (E-LEG) - 1ST MH S OF COLUMBUS CRESCENT (N-LEG) TO MH AT COLUMBUS CRESCENT (N-LEG)
21	12006	DAVID STREET - 2ND MH N OF LIVINIA AVENUE TO 1ST MH N OF LIVINIA AVENUE
22	12007	DAVIDSON STREET - 1ST MH N OF LODGE AVENUE TO MH AT LODGE AVENUE
23	12008	DAVIDSON STREET - MH AT LODGE AVENUE TO 1ST MH S OF LODGE AVENUE
24	12009	DOBRINSKY DRIVE (E-LEG) - MH AT DOBRINSKY DRIVE (N-LEG) TO 1ST MH S OF DOBRINSKY DRIVE
25	12010	DUFFIELD STREET - 1ST MH S OF LODGE AVENUE TO MH AT LODGE AVENUE (S-LEG)
26	12011	DUFFIELD STREET - 1ST MH N OF PORTAGE AVENUE TO 3RD MH N OF PORTAGE AVENUE

### ABBREVIATIONS

WWS	WASTE WATER SEWER
CS	COMBINED SEWER
LDS	LAND DRAINAGE SEWER
R	PROPERTY LINE
E	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
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 PIPE

### LEGEND

DESCRIPTION	ABANDONED	EXISTING	PROPOSED
WATER PIPE	---	---	---
FIRE HYDRANT	⊗	⊗	⊗
VALVE	⊗	⊗	⊗
CURB STOP	⊗	⊗	⊗
REDUCER	∇	∇	∇
COUPLING OR SLIDER	X	X	X
CROSS	⊕	⊕	⊕
BEND - 11.25°, 22.5°, 45°, 90°	H H H H	H H H H	H H H H
TEE	H	H	H
VERTICAL BEND	H	H	H
ANODE		⤿	⤿
REPAIR MARKER		⊗	⊗
PLUG	J	J	J
SEWER PIPE	---	---	---
MANHOLE	○	○	○
CATCH BASIN	□	□	□
CURB INLET	▽	▽	▽
JUNCTION			
E 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	X	X	X
EDGE OF PAVEMENT OR GUTTER	---	---	---
EDGE UNPAVED OR GRAVEL ROAD	---	---	---
R			
PROJECTED R			
LOT LINE	---	---	---
SIDEWALK - PATHWAY	---	---	---
EASEMENT	---	---	---
EDGE OF BUILDING			
MAILBOX			
TEST HOLE			
TREE LINE OR BUSH			
52.0			
MEASUREMENT TO REPAIR FROM REFERENCE MH SHOWN THUS...			
MH			
0.0			
MH			

### CONSTRUCTION NOTES

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

### HATCH PATTERNS

AREA OF REPAIR ON PIPE

LOCATION APPROVED UNDERGROUND STRUCTURES  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.	B.M. ELEV. _____ _____ _____ _____ _____ _____ _____	DESIGNED BY SC CHECKED BY SC		ENGINEER'S SEAL  <b>ORIGINAL SIGNED BY</b> <b>S.R.J. COURNOYER</b> <b>19/01/22</b>  CONSULTANT DRAWING NUMBER _____	<b>THE CITY OF WINNIPEG</b> WATER AND WASTE DEPARTMENT ENGINEERING DIVISION  <b>2018 SEWER MAIN RENEWALS</b> <b>CONTRACT 4</b>  <b>INDEX PAGE</b>	SHEET <b>2</b> OF <b>52</b>
		DRAWN BY RS APPROVED BY KZ  SCALE: HORIZONTAL VERTICAL	RELEASED FOR CONSTRUCTION <b>K. ZUREK</b>  DATE 2019-01-23			CITY DRAWING NUMBER  <b>11987</b>
NO. REVISIONS DATE BY		DATE 2019 01 24 DATE 2019-01-23 PLOT DATE: 2018 05 16		BID OPPORTUNITY: 58-2019 CONTRACT NUMBER: 4 FILE PATH: R:\DRAWINGS\SEWER\2018 RENEWALS\RENEWALS & ASSOCIATED WORKS\CONTRACT 4\CONSTRUCTION DWGS\INDEX PAGE_1.dwg		