

# DRAWING INDEX

SHEET NUMBER	CITY OF WINNIPEG DRAWING NUMBER	DRAWING TITLE
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2	11021	AGNES STREET - MH AT SARGENT AVENUE (E) TO 1ST MH S SARGENT AVENUE
3	11022	AIKINS STREET - MH AT FLORA AVENUE (N OF E) TO T AT SELKIRK AVENUE (E OF MH AT FLORA)
4	11023	ALEXANDER AVENUE - 1ST MH E OF DEE STREET TO 2ND MH E OF DEE STREET
5	11024	ANDREWS STREET - MH AT HARTFORD AVENUE TO MH AT ST ANTHONY AVENUE
6	11025	AUBREY STREET - 1ST MH TO 2ND MH S OF WOLSELEY AVENUE
7	11026	BALMORAL STREET - MH AT CUMBERLAND AVENUE (N PL) TO MMH AT NOTRE DAME AVENUE (W OF ISABEL STREET)
8	11027	BALMORAL STREET - 1ST MH S CUMBERLAND AVENUE TO 2ND MH S CUMBERLAND AVENUE
9	11028	BANNERMAN AVENUE - 1ST MH E MCKENZIE STREET TO MH AT MCGREOR STREET
10	11029	BEVERLY STREET - 1ST MH N OF SARGENT AVENUE TO MH AT SARGENT AVENUE
11	11030	BROOKLYN STREET - 1ST MH N OF NESS AVENUE TO MH AT NESS AVENUE
12	11031	BROOKLYN STREET - 1ST MH S OF SILVER AVENUE TO 1ST MH N OF NESS AVENUE
13	11032	BURNELL STREET - END OF PIPE N PL BURNELL/ALVERSTONE TO 1ST MH N OF ELLICE AVENUE
14	11166	CHALMERS AVENUE - 1ST MH AT ROCH STREET (E PL) TO 2ND MH E OF ROCH STREET
15	11033	DOWNING STREET - 1ST MH S NOTRE DAME AVENUE TO MH AT NOTRE DAME AVENUE
16	11173	EASEMENT (NESS AVENUE) - 1ST MH E OF NESS AVENUE TO 1ST MH E OF VALLEY VIEW DRIVE (BACK LANE)
17	11034	FLORA AVENUE - MH AT SALTER ST (E PL) TO 1ST MH E OF SALTER STREET
18	11035	HARGRAVE STREET - 1ST MH N OF ELLICE AVENUE TO MH AT QUAPPELLE AVENUE
19	11036	HARGRAVE STREET - MH AT CUMBERLAND AVENUE TO MH AT NOTRE DAME AVENUE
20	11037	HARGRAVE STREET - 1ST MH N OF NOTRE DAME TO MH AT McDERMOT AVENUE
21	11038	HARGRAVE STREET - 1ST MH N OF McDERMOT AVENUE TO SEWER Y AT BANNATYNE AVENUE
22	11039	ISABEL STREET (E) - MH AT PACIFIC AVENUE (N OF E) TO SEWER Y AT ALEXANDER AVENUE
23	11040	JAMES AVENUE - 2ND MH W OF LILY STREET TO MH AT MAIN STREET (E)
24	11041	LISGAR AVENUE - 1ST MH W OF BEACONSFIELD TO MH AT AUSTIN STREET
25	11042	LOGAN AVENUE - MH AT TRINITY STREET TO MH AT ARLINGTON STREET
26	11043	MAIN STREET (E) - MH AT HENRY AVENUE TO 1ST MH S OF HENRY AVENUE
27	11044	MAIN STREET (W PL) - MH AT BELMONT AVENUE N PL TO 1ST MH N OF KILBRIDE AVENUE
28	11045	MANITOBA AVENUE - 1ST MH E OF MAIN ST TO MH AT MAIN ST (E OF E)
29	11046	MARYLAND STREET - 2ND MH N ELLICE AVENUE TO 1ST MH N ELLICE AVENUE
30	11047	MARYLAND STREET - MH AT SARGENT AVENUE (E) TO 1ST MH S SARGENT AVENUE
31	11048	McDERMOT AVENUE WEST - 2ND MH E OF KING EDWARD STREET TO 1ST MH E OF ODDY STREET
32	11049	McDERMOT AVENUE - MH AT PRINCESS STREET TO MH AT KING STREET
33	11195	NOTTINGHAM - 1ST MH W OF LONDON STREET TO 2ND MH W OF LONDON STREET
34	11050	PACIFIC AVENUE WEST - MH AT WILLOWBANK STREET TO MH AT JUBA STREET
35	11051	PACIFIC AVENUE - 1ST MH OF XANTE STREET TO MH AT ARLINGTON STREET
36	11052	POINT DOUGLAS AVENUE - MH AT McFARLANE STREET (E PL) TO 1ST MH W OF SYNDICATE STREET
37	11053	POWERS STREET - MH AT MOUNTAIN AVENUE (E) TO MH AT MOUNTAIN AVENUE (N PL)
38	11054	REDWOOD AVENUE - MH AT McPHILLIPS STREET (E PL) TO 1ST MH E OF McPHILLIPS STREET
39	11055	ROSS AVENUE WEST - MH AT ODDY STREET TO 1ST MH E OF BUTTERWORTH LANE
40	11056	ROSS AVENUE - 1ST MH W OF SHERBROOK STREET TO MH AT SHERBROOK STREET
41	11057	ROVER AVENUE - MH AT BARBER STREET TO MH AT DISRAELI STREET
42	11058	SEVEN OAKS AVENUE - 2ND MH W OF JONES STREET TO 1ST MH W OF JONES STREET
43	11059	SHERBROOK STREET - 4TH MH N PORTAGE AVENUE TO 5TH MH N PORTAGE AVENUE
44	11060	SHERBROOK STREET - 1ST MH N ELLICE AVENUE TO MH AT ELLICE AVENUE
45	11061	SHERBROOK STREET - 2ND MH N ELLICE AVENUE TO 1ST MH N ELLICE AVENUE
46	11062	SHERBROOK STREET - 2ND MH S CUMBERLAND AVENUE TO 3RD MH S CUMBERLAND AVENUE

# DRAWING INDEX

SHEET NUMBER	CITY OF WINNIPEG DRAWING NUMBER	DRAWING TITLE
47	11063	SHERBROOK STREET - MH AT HIGGINS AVENUE TO MH AT LOGAN AVENUE
48	11064	ST JAMES STREET - 2ND MH N OF MAROONS ROAD TO 1ST MH S OF ST MATTHEWS AVENUE
49	11065	ST JAMES STREET - 1ST MH S ST MATTHEWS AVENUE TO MH AT ST MATTHEWS AVENUE E
50	11066	ST MATTHEWS STREET - 1ST MH W OF HOME STREET TO MH AT HOME STREET
51	11067	ST MATTHEWS STREET - 1ST MH W OF WALL STREET TO MH AT ERIN STREET
52	11068	STANLEY STREET - MH AT HENRY AVENUE TO MH AT LOGAN AVENUE
53	11069	SUTHERLAND AVENUE - MH AT MEADE STREET TO MH AT ARGYLE STREET
54	11070	WELLINGTON AVENUE - MH AT VALOUR ROAD TO MH AT SPRUCE STREET
55	11071	WILLIAM AVENUE WEST - 3RD MH W OF KEEWATIN STREET TO MH AT JUBA STREET
56	11072	WOLEVER AVENUE - MH AT GREENWOOD PLACE TO 1ST TEE E OF GREENWOOD PLACE

## ABBREVIATIONS

WWS	WASTE WATER SEWER
CS	COMBINED SEWER
LDS	LAND DRAINAGE SEWER
E	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/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

## 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 E.
7. INSTALL SEWER SERVICE RISERS TO ELEVATION WHERE MINIMUM SLOPE OF 1% IS MAINTAINED FOR ALL SERVICES.

## HATCH PATTERNS

 AREA OF REPAIR ON PIPE

## LEGEND

DESCRIPTION	EXISTING	PROPOSED
WATER PIPE		
FIRE HYDRANT		
VALVE		
CURB STOP		
REDUCER		
COUPLING OR SLIDDER		
CROSS		
BEND - 11.25', 22.5', 45', 90'		
TEE		
VERTICAL BEND		
ANODE		
REPAIR MARKER		
PLUG		
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		
EDGE OF PAVEMENT OR GUTTER		
EDGE UNPAVED OR GRAVEL ROAD		
E		
PROJECTED E		
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...  0.0

LOCATION APPROVED  
UNDERGROUND STRUCTURES

B.M.  
ELEV.  
CONSTRUCTION COMPLETION DATE: YYYY MM DD

DESIGNED BY NC  
CHECKED BY SC  
DRAWN BY CN  
APPROVED BY KZ

ENGINEER'S SEAL  
ORIGINAL  
SIGNED BY  
N.M.  
CONTI  
16/01/28

 **THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT  
ENGINEERING DIVISION

2015 SEWER RENEWALS BY CIPP LINING

SHEET 1 OF 56

SCALE:  
HORIZONTAL  
VERTICAL  
**KAS ZUREK**

CONSULTANT DRAWING NUMBER

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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

DATE 2012 11 06  
PLOT DATE: 2016 01 29

BID OPPORTUNITY: 960-2015  
CONTRACT NUMBER: 1

FILE PATH: R:\DRAWINGS\SEWER\2015 RENEWALS\RENEWALS & ASSOCIATED WORKS\Contract 1\Construction Dwg\  
FILE NAME: index\_conti4.dwg