

DRAWING INDEX

SHEET NUMBER	CITY OF WINNIPEG DRAWING NUMBER	DRAWING TITLE
1	11213	DRAWING INDEX
2	11214	ASSINBOINE AVENUE - 1ST MH E OF EDMONTON STREET TO MH E OF CARLTON STREET
3	11215	CHALMERS AVENUE - 3RD MH TO 4TH MH W OF RALEIGH STREET
4	11216	CHELSEA AVENUE - MH AT ROCH STREET TO 1ST MH W OF ROCH STREET
5	11217	COLVIN AVENUE - MH AT ROCH STREET WPL TO 1ST MH W OF ROCH STREET
6	11218	FLEMING AVENUE - 2ND MH W OF LONDON STREET TO MH AT GREY STREET
7	11219	FOXDALE AVENUE - 1ST MH E OF ROTHESAY STREET TO MH AT ROTHESAY STREET
8	11220	FRASERS GROVE - 1ST MH W OF HENDERSON HIGHWAY TO 2ND MH W OF HENDERSON HIGHWAY
9	11221	GOVERNMENT AVENUE - 1ST MH W OF GREY STREET TO MH AT GREY STREET (W OF CL)
10	11222	GREENE AVENUE - 2ND MH E OF ROCH STREET TO MH AT WATT STREET
11	11223	GREENE AVENUE - 3RD MH W OF GOLSPIE STREET TO MH AT WATT STREET
12	11224	HAZEL DELL AVENUE - 1ST MH E OF ROCH STREET TO 2ND MH E OF ROCH STREET
13	11225	HAZEL DELL AVENUE - 2ND MH W OF ROCH STREET TO MH AT BRAZIER STREET
14	11226	HELMSDALE AVENUE - 2ND MH E OF ROCH STREET TO MH AT WATT STREET
15	11227	HELMSDALE AVENUE - 1ST MH E TO 1ST MH W OF HENDERSON HIGHWAY
16	11228	HELMSDALE AVENUE - 1ST MH E OF ROCH STREET TO MH AT ROCH STREET
17	11229	HENDERSON HIGHWAY - MH AT JOHNSON AVENUE W TO MH AT POPLAR AVENUE
18	11230	HOSKIN AVENUE - MH AT LONDON STREET (CL) TO 1ST MH W OF LONDON STREET
19	11231	JOHNSON AVENUE WEST - 2ND MH W OF LEVIS STREET TO MH AT ROCH STREET
20	11232	JOHNSON AVENUE WEST - MH AT ROCH STREET TO 1ST MH W OF ROCH STREET
21	11233	KILDONAN DRIVE (E R) - MH AT MOSSDALE AVENUE TO MH AT LEIGHTON AVENUE
22	11234	KILDONAN DRIVE (EAST LINE) - 1ST MH N OF KIMBERLY AVENUE TO MH AT HELMSDALE AVENUE
23	11235	KIMBERLY AVENUE - 2ND MH W OF GOLSPIE STREET TO MH AT WATT STREET
24	11236	LACY STREET - MH AT DEARBORN AVENUE TO MH AT GORDON AVENUE
25	11237	LARSEN AVENUE - 1ST MH E OF BRAZIER STREET TO 2ND MH E OF BRAZIER STREET
26	11238	LEIGHTON AVENUE - 1ST MH TO MH AT KILDONAN DRIVE
27	11239	LEIGHTON AVENUE - MH AT WOODVALE STREET TO 1ST MH W OF WOODVALE STREET
28	11240	LINDEN AVENUE - 2ND MH E OF ROCH STREET TO MH AT WATT STREET
29	11241	LINDEN AVENUE - MH AT WOODVALE STREET TO 1ST MH W OF WOODVALE STREET
30	11242	LOCKSLEY BAY (W LEG) - MH AT DALLENLEA AVENUE TO 2ND MH S OF DALLENLEA AVENUE
31	11243	MELBOURNE AVENUE - 1ST MH E OF WATT STREET TO MH AT WATT STREET
32	11244	MELBOURNE AVENUE - 3RD MH W OF WATT STREET TO MH AT ROCH STREET
33	11245	MOIR AVENUE - 1ST MH W OF ROSSMERE CRESCENT TO MH AT DUNVEGAN STREET
34	11246	MONCTON AVENUE - 2ND MH W OF BESANT STREET TO MH AT LONDON STREET
35	11247	MUNROE AVENUE (N OF Q) - 2ND MH W OF GREY STREET TO 1ST MH W OF GREY STREET
36	11248	OTTAWA AVENUE - 2ND MH E OF WATT STREET TO 1ST MH E OF WATT STREET
37	11249	OTTAWA AVENUE - 1ST MH E OF BRAZIER STREET TO 2ND MH E OF BRAZIER STREET
38	11250	OTTAWA AVENUE - MH AT WATT STREET (W R) TO 1ST MH W OF WATT STREET
39	11251	OTTAWA AVENUE - 1ST MH W OF WATT STREET TO 2ND MH W OF WATT STREET
40	11252	PRINCE RUPERT AVENUE - 1ST MH E OF GREY STREET TO MH AT GREY STREET (E OF Q)

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SHEET NUMBER	CITY OF WINNIPEG DRAWING NUMBER	DRAWING TITLE
41	11253	RIVERTON AVENUE - 1ST MH W OF LEVIS STREET TO MH AT BRAZIER STREET
42	11254	RIVERTON AVENUE - 1ST NODE W OF STADACONA STREET TO 1ST MH W OF LEVIS STREET
43	11255	RIVERTON AVENUE - MH AT BRAZIER STREET TO 1ST MH W OF BRAZIER STREET
44	11256	ROBERTA AVENUE - MH AT TO 1ST MH W OF HENDERSON HIGHWAY
45	11257	ROCH STREET - MH AT BRONX AVENUE TO MH AT CHELSEA AVENUE
46	11258	ROWANDALE CRESCENT (N LEG) - 1ST MH E OF KILDONAN DRIVE TO 2ND MH E OF KILDONAN DRIVE
47	11259	TALBOT AVENUE - MH AT ALLAN STREET TO 1ST MH W OF ALLAN STREET

LEGEND

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

ABBREVIATIONS

WWS	WASTE WATER SEWER
CS	COMBINED SEWER
LDS	LAND DRAINAGE SEWER
EL	PROPERTY LINE
CL	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

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

HATCH PATTERNS



AREA OF REPAIR ON PIPE

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

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	NC	CHECKED BY	SC
DRAWN BY	CN	APPROVED BY	KZ
SCALE:		RELEASED FOR CONSTRUCTION	
HORIZONTAL		KAZ ZUREK	
VERTICAL			
DATE	2016 02 29	DATE	2016 03 24

PLOT DATE: 2016 03 29

ENGINEER'S SEAL

ORIGINAL
SIGNED BY
S.R.J.
COURNOYER
16-03-22

CONSULTANT DRAWING NUMBER



THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

2015 SEWER RENEWALS BY CIPP LINING

SHEET 1 OF 47

CITY DRAWING NUMBER

11213

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