

DRAWING INDEX

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3	11161	ACADIA BAY - 2ND MH S OF KILLARNEY AVENUE TO 1ST MH S OF KILLARNEY AVENUE
4	11162	ALFRED AVENUE - 1ST MH E OF CHARLES STREET TO MH AT MAIN STREET (E)
5	11163	ARLINGTON STREET - 1ST MH N OF FLORA AVENUE (W R) TO MH AT FLORA AVENUE
6	11164	BREDIN DRIVE - 1ST MH W OF HENDERSON HIGHWAY TO MH @ HENDERSON HIGHWAY
7	11165	BRONX AVENUE - 1ST MH W OF GREY STREET TO MH AT GREY STREET (W R)
8	11167	CHARLES STREET - MH AT COLLEGE AVENUE TO MH AT MOUNTAIN AVENUE
9	11168	CLAYTON DRIVE - MH AT BERRYDALE AVENUE TO MH AT BAYFIELD AVENUE
10	11169	COLLINGWOOD CRESENT - 1ST MH W OF PARK GROVE DRIVE TO MH AT PARK GROVE DRIVE
11	11170	COUNTRY CLUB BOULEVARD - 1ST MH S OF PORTAGE AVENUE TO MH AT PORTAGE AVENUE
12	11171	DOWNNS AVENUE - MH AT BERNADINE CRESENT (W R) TO MH AT ISBISTER STREET (E R)
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14	11174	ELLINGTON STREET - MH @ MANITOBA AVENUE TO 1ST MH N OF MANITOBA AVENUE
15	11175	GOVERNMENT AVENUE - 1ST MH W OF BESANT STREET TO MH AT BESANT STREET
16	11176	HENDERSON HIGHWAY - MH AT OAKVIEW AVENUE TO PLUG S OF OAKVIEW AVENUE
17	11177	HILL STREET - MH AT CATON STREET (E) TO 1ST MH S OF CATON STREET (E)
18	11178	HOSKIN AVENUE - 1ST MH W OF LONDON STREET TO 2ND MH W OF LONDON STREET
19	11179	HOSKIN AVENUE - 1ST MH W OF GREY STREET TO MH @ GREY STREET (W R)
20	11180	JAMISON AVENUE - 1ST MH E OF HENDERSON HIGHWAY TO MH @ HENDERSON HIGHWAY
21	11181	JAMISON AVENUE - MH AT WATT STREET (W R) TO 1ST MH W OF WATT STREET
22	11182	JESSIE AVENUE - 1ST MH E OF ROCKWOOD STREET TO MH AT WILTON STREET
23	11183	KENSINGTON AVENUE - 1ST MH S OF ST MATTHEWS AVENUE TO MH AT ST MATTHEWS AVENUE
24	11184	KILDONAN DRIVE - MH AT LEIGHTON AVENUE TO 1ST MH S OF LEIGHTON AVENUE
25	11185	KIMBERLY AVENUE - 2ND MH W OF ROCH STREET TO 3RD MH W OF ROCH STREET
26	11186	LAKE LAWN DRIVE (W-LEG) - 1ST MH N OF MARINA PLACE TO 2ND MH N OF MARINA PLACE
27	11187	LINDEN AVENUE - 2ND MH W OF GOLSPIE STREET TO MH @ WATT STREET
28	11188	LYNDALE DRIVE - MH AT LLOYD STREET TO MH AT ST MARYS ROAD
29	11189	MAIN STREET - MH AT ATLANTIC AVENUE TO MH AT BANNERMAN AVENUE
30	11190	MAIN STREET - MH AT BURRIN AVENUE TO MH AT SEMPLE AVENUE
31	11191	MAIN STREET - 1ST MH S OF BURRIN AVENUE TO 1ST MH S OF SEMPLE AVENUE
32	11192	MARKHAM ROAD - 1ST MH SW OF PEMBINA HIGHWAY TO MH AT PEMBINA HIGHWAY
33	11193	MCCALMAN AVENUE - 1ST MH E OF CHESTER STREET TO MH AT CHESTER STREET
34	11194	NAIRN AVENUE - MH AT DESALABERRY AVENUE TO MH AT ALLAN STREET
35	11196	OAKVIEW AVENUE - 1ST MH W OF HENDERSON HIGHWAY TO MH AT HENDERSON HIGHWAY
36	11197	OTTAWA AVENUE - 2ND MH W OF BRAZIER STREET TO MH @ HENDERSON HIGHWAY
37	11198	POLSON AVENUE - 1ST MH SE OF CROSS STREET TO 1ST MH NW OF CROSS STREET
38	11199	R.O.W. (N OF CONCORDIA HOSPITAL) - 1ST MH S OF KIMBERLY AVENUE TO 2ND MH S OF KIMBERLY AVENUE
39	11200	SANSOME AVENUE - 1ST MH E OF GAGNON STREET TO LIFT STATION NO FMH#0003
40	11201	SCOTIA STREET - 2ND MH S OF LEILA AVENUE TO 1ST MH S OF LEILA AVENUE
41	11202	SEVEN OAKS AVENUE - 2ND MH W OF JONES STREET TO 1ST MH W OF JONES STREET
42	11203	SEVEN OAKS AVENUE - 1ST MH E OF POWERS STREET TO MH AT POWERS STREET
43	11204	SIMPSON AVENUE - 2ND MH W OF LONDON STREET TO MH @ GREY STREET (W OF E)
44	11205	STRANMILLIS AVENUE - 1ST MH E OF DES MEURONS STREET MH AT DES MEURONS STREET

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45	11206	TRENT AVENUE - 2ND MH E OF WATT STREET TO 1ST MH E OF WATT STREET
46	11207	VALLEY VIEW DRIVE - MH AT NESS AVENUE TO 1ST MH N OF NESS AVENUE
47	11208	WEST FERNWOOD AVENUE - 1ST MH W OF ST MARY'S ROAD TO MH AT ST MARY'S ROAD
48	11209	WINDSOR AVENUE - 2ND MH E OF GATEWAY ROAD TO 1ST MH W OF GREY STREET
49	11210	WINTERTON AVENUE - MH @ ROCH STREET (E) TO 1ST MH E OF ROCH 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 A L R	H A L R
TEE	⊕	⊕
VERTICAL BEND	H	H
ANODE	⊕	⊕
REPAIR MARKER	⊕	⊕
PLUG	J	J
SEWER PIPE	—	—
MANHOLE	○	●
CATCH BASIN	□	■
CURB INLET	∇	∇
JUNCTION	⊕	⊕
E 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	—	—
E	—	—
PROJECTED E	—	—
LOT LINE	—	—
SIDEWALK - PATHWAY	—	—
EASEMENT	—	—
EDGE OF BUILDING	—	—
MAILBOX	⊕	⊕
TEST HOLE	⊕	⊕
TREE LINE OR BUSH	—	—

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/	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
PCOP	PRESTRESSED CONCRETE CYLINDER PIPE

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 R.
- 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...
MH

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.

NO.	REVISIONS	DATE	BY

DESIGNED BY	TS	CHECKED BY	SC
DRAWN BY	RJ	APPROVED BY	KZ
SCALE:		RELEASED FOR CONSTRUCTION	
HORIZONTAL			
VERTICAL			
DATE	2015 12 16	DATE	
PLOT DATE:	2015 12 16		

ENGINEER'S SEAL
ORIGINAL SIGNED BY
S.R.J.
COURNOYER
12/07/15
CONSULTANT DRAWING NUMBER



THE CITY OF WINNIPEG

WATER AND WASTE DEPARTMENT

ENGINEERING DIVISION

2015 SEWER RENEWALS & ASSOCIATED WORKS

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