

DRAWING INDEX

SHEET NUMBER	CITY OF WINNIPEG DRAWING NUMBER	DRAWING TITLE
31	12472	MCNAUGHTON AVENUE - 1ST MH W OF DALY STREET SOUTH TO MH AT DALY STREET SOUTH
32	12473	MICHIGAN AVENUE - MH AT LOUISIANA PLACE TO MH AT RICE ROAD
33	12474	MONTROSE STREET - 2ND MH S PF CROYDON AVENUE TO 3RD MH S OF CORYDON AVENUE
34	12475	NASSAU STREET SOUTH - MH AT WALKER AVENUE TO MH AT KYLEMORE AVENUE
35	12476	NASSAU STREET SOUTH - MH AT ARNOLD AVENUE (W-R) TO MH AT HETHRINGTON AVE
36	12477	NORTH DRIVE - 2ND MH E OF LYON STREET TO 1ST MH E OF LYON STREET
37	12478	OAKWOOD AVENUE - 1ST MH E OF HAY STREET TO MH AT HAY STREET
38	12479	OAKWOOD AVENUE - MH AT CASEY STREET TO MH AT FISHER STREET (W-LEG)
39	12480	PARK BOULEVARD NORTH - 1ST MH N OF CULBERTSON AVENUE TO MH AT CULBERTSON AVENUE
40	12481	QUEENSTON STREET - 1ST MH N OF GRANT AVENUE TO 2ND MH N OF GRANT AVENUE
41	12482	RATHGAR AVENUE - MH AT NASSAU STREET SOUTH TO 1ST MH E OF NASSAU STREET SOUTH
42	12483	RILEY CRESCENT (N-LEG) - 1ST MH W OF WICKLOW STREET TO MH AT WICKLOW STREET
43	12484	RIVERSIDE DRIVE - 2ND MH N OF MERRIAM BOULEVARD TO 1ST MH S OF JUBILEE AVENUE
44	12485	ROBINDALE ROAD - 1ST MH S OF BETSWORTH AVENUE TO MH AT BETSWORTH AVENUE
45	12486	ROSDALE AVENUE - 1ST MH E OF LILAC STREET TO 3RD MH E OF LILAC STREET
46	12487	RYERSON AVENUE - 1ST MH S OF RICE ROAD TO MH AT RICE ROAD
47	12488	SHAFTSBURY BOULEVARD - 3RD MH N OF GRANT AVENUE TO 4TH MH N OF GRANT AVENUE
48	12489	SOUTH DRIVE - MH AT WILDWOOD J (E-LEG) TO MH AT WILDWOOD J (W-LEG)
49	12490	SOUTH DRIVE - MH AT KEBIR PLACE TO MH AT DOVE BAY
50	12491	SOUTHBOINE DRIVE - MH AR ORCHARD PARK TO MH W OF ORCHARD PARK
51	12492	THATCHER DRIVE - 1ST M S OF UNVERSITY CRESECENT TO MH AT UNIVERSITY CRESCENT
52	12493	WALKER AVENUE - 1ST MH E OF ARGUE STREET TO 2ND MH E OF ARGUE STREET
53	12494	WALKER AVENUE - 2ND MH W OF NASSAU ST SOUTH TO MH W OF NASSAU ST SOUTH
54	12495	WALKER AVENUE - 1ST MH E OF NASSAU ST SOUTH TO MH AT NASSAU ST SOUTH
55	12496	WEATHERDON AVENUE - 1ST MH E OF WILTON STREET TO MH AT GUELPH ST
56	12497	WEATHERDON AVENUE - 1ST MH W OF HARROW STREET TO MH AT HARROW STREET
57	12498	WEDGEWOOD DRIVE - 1ST MH W OF THATCHER DRIVE TO MH AT THATCHER DRIVE
58	12499	WELLINGTON CRESCENT - MH AT ELM STREET TO MH W OF OAK STREET
59	12500	WELLINGTON CRESCENT - MH AT RENFREW STREET TO MH AT LANARK STREET
60	12501	WILLOW AVENUE - MH AT FRANK STREET TO MH AT KENASTON BOULEVARD

ABBREVIATIONS

WWS	WASTE WATER SEWER
CS	COMBINED SEWER
LDS	LAND DRAINAGE SEWER
ℓ	PROPERTY LINE
ℓ	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 SLIDDER		X	X
CROSS	⊕	⊕	⊕
BEND - 11.25°, 22.5°, 45°, 90°	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	---	---	---
ℓ 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
EDGE OF PAVEMENT OR GUTTER		---	---
EDGE UNPAVED OR GRAVEL ROAD		---	---
ℓ		---	---
PROJECTED ℓ		---	---
LOT LINE		---	---
SIDEWALK - PATHWAY		---	---
EASEMENT		---	---
EDGE OF BUILDING		---	---
MAILBOX		⊕	⊕
TEST HOLE		⊕	⊕
TREE LINE OR BUSH		---	---

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 ℓ.
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... 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.	B.M. ELEV. CONSTRUCTION COMPLETION DATE: --	DESIGNED BY SC CHECKED BY SC DRAWN BY AJ APPROVED BY KZ	ENGINEER'S SEAL ORIGINAL SIGNED BY S.R.J. COURNOYER 2020/04/17	THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT ENGINEERING DIVISION 2020 SEWER RENEWALS BY EXTERNAL POINT REPAIR CONTRACT #6 INDEX	SHEET 3 OF 60 CITY DRAWING NUMBER 12444
	NO. REVISIONS DATE BY	SCALE: HORIZONTAL VERTICAL K. ZUREK DATE 2020-04-22	RELEASED FOR CONSTRUCTION CONSULTANT DRAWING NUMBER -		FILE PATH: R:\DRAWINGS\SEWER\2019 RENEWALS\RENEWALS & ASSOCIATED WORKS\2019 supplementals\CONTRACT #6\Construction Dwg\SIGNED CONSTRUCTION DRAWINGS\