

DRAWING INDEX

SHEET NUMBER	CITY OF WINNIPEG DRAWING NUMBER	DRAWING TITLE
1		DRAWING INDEX
2	10413	CHALMERS AVENUE – 1ST MH E OF ROCH STREET TO 2ND MH E OF ROCH STREET
3	10414	FRANK STREET – NODE NORTH OF CARPATHIA ROAD TO MH AT CARPATHIA ROAD
4	10415	HORACE STREET – 2ND MH E OF RUE YOUVILLE TO 1ST MH E OF RUE YOURVILLE
5	10416	LORETTE AVENUE – 2ND MH E OF CAMBRIDGE STREET TO 2ND MH W OF NATHANIEL STREET
6	10417	MCMILLAN AVENUE – 1ST MH W OF HARROW STREET TO MH AT HARROW STREET
7	10418	MULVEY AVENUE – MH AT GUELPH STREET TO 1ST MH W OF GUELPH STREET
8	10419	PENTLAND STREET – MH AT WINTERS WAY TO 1ST MH S OF WINTERS WAY
9	10420	PLINGUET STREET – MH AT MCTAVISH STREET TO MH AT ARCHIBALD STREET
10	10421	1ST PUBLIC LANE E OF GATEWAY ROAD – MH N OF WINDSOR AVENUE TO NODE AT WINDSOR AVENUE
11	10422	SCOTLAND AVENUE – MH AT ARBUTHNOT STREET TO 1ST MH E OF ARBUTHNOT STREET
12	10423	RUE ST JEAN BAPTISTE – MH AT DOLLARD STREET TO MH AT RUE YELLE
13	10424	TACHE AVENUE – 1ST MH S OF GOULET STREET TO MH AT GOULET STREET
14	10425	TAYLOR STREET – 1ST MH E OF NATHANIEL AVENUE TO MH AT NATHANIEL AVENUE
15	10426	UNION AVENUE W – 1ST MH E OF BRAZIER STREET TO 2ND MH E OF BRAZIER STREET
16	10427	WARSAW AVENUE – MH AT HUGO STREET TO 1ST MH W OF HUGO STREET
17	10428	WARSAW AVENUE – 1ST MH E OF THURSO STREET TO MH AT THURSO STREET
18	10429	WILLOWDALE PLACE – 1ST MH W OF LARCHDALE CRESCENT TO NODE AT LARCHDALE CRESCENT
19	10430	HARVARD AVENUE – MH AT GUELPH STREET TO 1ST MH E OF GUELPH STREET
20	10431	RUE JEANNE D'ARC – MH AT DOLLARD BOULEVARD TO 1ST MH N OF DOLLARD BOULEVARD
21	10432	YALE AVENUE – MH AT AVONHERST STREET TO MH AT RUSKIN ROW

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	PLAN VIEW	
	EXISTING	PROPOSED
WATER PIPE		
FIRE HYDRANT		
VALVE		
CURB STOP		
REDUCER		
COUPLING OR SLIDER		
CROSS		
BEND – 11.25°, 22.5°, 45°, 90°		
TEE		
VERTICAL BEND		
ANODE		
REPAIR MARKER		
PLUG		
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		
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

- 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 ℓ.
- 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
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: YYYY MM DD <table border="1" style="width:100%; height: 40px;"> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>					ENGINEER'S SEAL ORIGINAL SIGNED BY S.R.J. COURNOYER 12-10-26 CONSULTANT DRAWING NUMBER _____	 THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT ENGINEERING DIVISION 2012 SEWER RENEWALS & REPAIRS SHEET 1 OF 21 CITY DRAWING NUMBER _____ <h2 style="margin: 0;">INDEX PAGE</h2>
NO. REVISIONS DATE BY	DESIGNED BY NC CHECKED BY SC DRAWN BY CJH APPROVED BY KZ SCALE: HORIZONTAL VERTICAL DATE 2012 10 26 DATE	RELEASED FOR CONSTRUCTION DATE	PLOT DATE: 2012 10 26				