

DRAWING INDEX

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42	10662	SGT TOMMY PRINCE STREET - MH AT MAGNUS AVENUE TO MH AT ALFRED AVENUE
43	10663	TEAKWOOD AVENUE - MH AT DAFFODIL STREET TO 2ND MH E OF DAFFODIL STREET
44	10719	MACHRAY AVE - MH AT MONREITH ST (CL) TO MH AT ROBERTSON (E R)
45	10720	MACHRAY AVE - MH AT ROBERTSON STREET (E R) TO MH AT KILDAROACH (CL)
46	10721	MARGARET AVE -MH AT TANNER STREET (CL) TO 1ST MH E OF TANNER STREET (CL)

ABBREVIATIONS

WWS	WASTE WATER SEWER
CS	COMBINED SEWER
LDS	LAND DRAINAGE SEWER
E	PROPERTY LINE
Q.L.S.	CENTER LINE
B.M.	GEOGRAPHIC INFORMATION SYSTEM
TH	BENCH MARK
ELEV	TEST HOLE
INV	ELEVATION
MN	INVERT
SL	MINIMUM
TS	STREET LIGHTING
ABAND	TRAFFIC SIGNALS
BLDG	ABANDONED
HSE	BUILDING
C/S	HOUSE
MTS	CURB STOP
R.O.W.	MANITOBA TELEPHONE SYSTEM
WM	RIGHT-OF-WAY
CULV	WATERMAIN
MH	CULVERT
CB	MANHOLE
CI	CATCH BASIN
VERT.	CURB INLET
HORZ.	VERTICAL
LB.	HORIZONTAL
FIBRE	IRON BAR
X-ING	FIBRE OPTIC
HYD	CROSSING
EXIST	HYDRANT
N	EXISTING
E	NORTH
S	EAST
W	SOUTH
W/	WEST
C/W	WITH
CONC	CONSTRUCTED WITH
AC	CONCRETE
VC OR CLAY	ASBESTOS CEMENT
CI	VITRIFIED CLAY
DI	CAST IRON
PVC	DUCTILE IRON
HDPE	POLYVINYL CHLORIDE
PCCP	HIGH DENSITY POLYETHYLENE
	PRESTRESSED CONCRETE CYLINDER PIPE

LEGEND

DESCRIPTION	PLAN VIEW	
	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		
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		
PROJECTED		
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 R.
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: YYYY MM DD	ENGINEER'S SEAL ORIGINAL SIGNED BY S.R.J. COURNOYER 12-11-28		 THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT ENGINEERING DIVISION 2013 SEWER RENEWALS BY CIPP LINING INDEX PAGE	SHEET 1 OF 46 CITY DRAWING NUMBER
	DESIGNED BY: XX CHECKED BY: SC DRAWN BY: CJH/MA/RS APPROVED BY: KZ SCALE: HORIZONTAL VERTICAL	RELEASED FOR CONSTRUCTION CONSULTANT DRAWING NUMBER	DATE: 2013 12 10 PLOT DATE: 2013 12 10		REVISIONS NO. DATE BY