

# DRAWING INDEX

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29	10956	WOLEVER AVENUE - MH AT MINTO STREET TO TIE-IN
30	10957	WOLSELEY AVENUE - MH AT CAMDEN PLACE TO 1ST MH W OF CAMDEN PLACE

# ABBREVIATIONS

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

# LEGEND

DESCRIPTION	EXISTING	PROPOSED
WATER PIPE	—	—
FIRE HYDRANT	⊕	⊕
VALVE	⊗	⊗
CURB STOP	♂	♂
REDUCER	◁	◁
COUPLING OR SLIDER	X	X
CROSS	⊕	⊕
BEND - 11.25°, 22.5°, 45°, 90°	H H H H	H H H H
TEE	⊕	⊕
VERTICAL BEND	H	H
ANODE	⊕	⊕
REPAIR MARKER	⊕	⊕
PLUG	J	J
SEWER PIPE	—	—
MANHOLE	○	●
CATCH BASIN	□	■
CURB INLET	▽	▽
JUNCTION	⊕	⊕
ℓ 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	—	—
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 <b>S.R.J. COURNOYER</b> 14/12/12  CONSULTANT DRAWING NUMBER —	<h2 style="margin: 0;">THE CITY OF WINNIPEG</h2> <h3 style="margin: 0;">WATER AND WASTE DEPARTMENT ENGINEERING DIVISION</h3> <p style="margin: 0;"><b>2014 SEWER RENEWALS AND REPAIRS</b></p> <h1 style="margin: 0;">INDEX PAGE</h1>	SHEET <b>1</b> OF <b>30</b> CITY DRAWING NUMBER —				
	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>REVISIONS</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	REVISIONS	DATE	BY					DESIGNED BY <b>TS</b> CHECKED BY <b>SC</b> DRAWN BY <b>MA</b> APPROVED BY <b>KZ</b> SCALE: HORIZONTAL VERTICAL RELEASED FOR CONSTRUCTION DATE _____		
NO.	REVISIONS	DATE	BY									