

DRAWING INDEX

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ABBREVIATIONS

WWS	WASTE WATER SEWER
CS	COMBINED SEWER
LDS	LAND DRAINAGE SEWER
R	PROPERTY LINE
CL	CENTRE LINE
G.I.S.	GEOGRAPHIC INFORMATION SYSTEM
B.M.	BENCH MARK
TH	TEST HOLE
ELEV	ELEVATION
INV	INVERT
MIN	MINIMUM
MAX	MAXIMUM
SL	STREET LIGHTING
TS	TRAFFIC SIGNALS
ABAND	ABANDONED
BLDG	BUILDING
HSE	HOUSE
CRN	CORNER
OPP	OPPOSITE
C/S OR S/C	CURB STOP
MTS	MANITOBA TELECOM SERVICES
R.O.W.	RIGHT-OF-WAY
WM	WATER MAIN
CULV	CULVERT
MH	MANHOLE
CB	CATCH BASIN
CI	CURB INLET
VERT.	VERTICAL
HORZ.	HORIZONTAL
I.B.	IRON BAR
FIBRE	FIBRE OPTIC
TYP	TYPICAL
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	EXISTING	PROPOSED
WATER PIPE	—	—
FIRE HYDRANT	+	+
VALVE	X	X
CURB STOP	△	△
REDUCER	▽	▽
COUPLING OR SLIDDER	X	X
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. SHAW, OR VIDEON	—	—
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	⊕	⊕
PARKING METER	⊕	⊕
WASTE RECEPTACLE	⊕	⊕
TEST HOLE	+	+
TREE LINE OR BUSH	—	—
SIGN	+	+

DESCRIPTION	EXISTING	PROPOSED
WATER PIPE	—	—
HYDRANT TOP	+	+
VALVE	X	X
TEE OR CROSS	⋈	⋈
COUPLING OR BEND	X	X
REDUCER	▽	▽
END OF PIPE	∅	∅
SEWER PIPE	—	—
UNPAVED GROUND SURFACE	—	—
PAVED GROUND SURFACE - ∅ PIPE	—	—
GUTTER (NORTH AND WEST)	—	—
GUTTER (SOUTH AND EAST)	—	—
∅ DITCH (NORTH AND WEST)	—	—
∅ DITCH (SOUTH AND EAST)	—	—
PROPERTY LINE (NORTH AND WEST)	—	—
PROPERTY LINE (SOUTH AND EAST)	—	—
STRUCTURE	—	—
MANHOLE OR CATCH BASIN	—	—

CONSTRUCTION NOTES

- EXPOSE EXISTING WATER MAIN & CONFIRM INVERTS PRIOR TO CONSTRUCTION.
- LOCATION OF ALL SERVICES TO BE CONFIRMED IN THE FIELD.
- INSTALL WATER MAIN BY TRENCHLESS METHODS.
- TRENCHES AND EXCAVATIONS WITHIN 1 METRE OF A PAVED AREA INCLUDING SIDEWALKS SHALL BE CLASS 3 BACKFILL.
- ALL MATERIALS SHALL CONFORM TO THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
- MINIMUM COVER TO TOP OF WATER MAIN SHALL BE 2.4 m.
- EXPOSE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION TO CONFIRM DEPTHS. ANY CONFLICTS WITH PROPOSED WATER MAINS AND EXISTING UNDERGROUND UTILITIES SHALL BE REPORTED TO THE CONTRACT ADMINISTRATOR PRIOR TO INSTALLATION.
- REPLACE ALL EXISTING LEAD SERVICES FROM PROPOSED WATER MAIN TO ∅.
- NOTIFY ALL AFFECTED RESIDENTS AND BUSINESSES 24 HOURS IN ADVANCE OF ANY WATER SHUTDOWNS OR DISRUPTION OF SERVICE.

HATCH PATTERNS

EXISTING	PROPOSED	DESCRIPTION
		EARTH OR GROUND ABOVE PIPE
		SAND OR OTHER FINE MATERIAL
		CONCRETE
		WASHED STONE OR GRANULAR MATERIAL
		INTERLOCKING STONE
		METAL
		GRAVEL OR STONE

LOCATION APPROVED UNDERGROUND STRUCTURES	B.M. ELEV.		ENGINEER'S SEAL		THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT ENGINEERING DIVISION			
			DESIGNED BY JKH			CHECKED BY HAK	ORIGINAL SIGNED BY H.A. KATZ 2017 05 17	
SUPV. U/G STRUCTURES COMMITTEE	DATE	DRAWN BY DML	APPROVED BY BWB	2017 WATER MAIN RENEWALS CONTRACT 9				
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	DATE	CONSULTANT DRAWING NUMBER	INDEX PAGE	SHEET 2 OF 21 CITY DRAWING NUMBER D-14739

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