

# DRAWING INDEX

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## ABBREVIATIONS

WWS	WASTE WATER SEWER
CS	COMBINED SEWER
LDS	LAND DRAINAGE SEWER
R	PROPERTY LINE
E	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	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 H	H H H H
TEE	⊕	⊕
VERTICAL BEND	H	H
ANODE	⊕	⊕
REPAIR MARKER	⊕	⊕
PLUG	J	J
SEWER PIPE	—	—
MANHOLE	○	●
CATCH BASIN	□	■
CURB INLET	▽	▽
JUNCTION	⊕	⊕
E 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	—	—
R	—	—
PROJECTED R	—	—
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. INSTALLED SEWER BY TRENCHLESS METHODS.
3. CONFIRMED THE LOCATION OF ALL SEWER SERVICES.
4. BACKFILLED UNDER PAVEMENT, IN SIDEWALKS, & WITHIN 1.0 OF PAVEMENT CLASS 3.
5. BACKFILLED IN BOULEVARD CLASS 5.
6. RENEWED SEWER SERVICES TO R.
7. INSTALLED SEWER SERVICE RISERS TO ELEVATION WHERE MINIMUM SLOPE OF 1% IS MAINTAINED FOR ALL SERVICES.

## HATCH PATTERNS

■ AREA OF REPAIR ON PIPE

52.0  
1 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.

NO.	REVISIONS	DATE	BY

DESIGNED BY	SC	CHECKED BY	—
DRAWN BY	AJ	APPROVED BY	—
SCALE:		RELEASED FOR CONSTRUCTION	
HORIZONTAL			
VERTICAL			
DATE	2017 07 04	DATE	2017 06 06
PLOT DATE:	2017 07 04		

ENGINEER'S SEAL  
**ORIGINAL SIGNED BY S.R.J. COURNOYER 17/06/05**  
CONSULTANT DRAWING NUMBER



**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT  
ENGINEERING DIVISION

2016 SEWER RENEWALS & ASSOCIATED WORKS  
CONTRACT 5

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