

DRAWING INDEX

SHEET NUMBER	CITY OF WINNIPEG DRAWING NUMBER	DRAWING TITLE
1	D-15065	COVER PAGE
2	D-15066	DRAWING INDEX, DESIGN NOTES, LEGEND & ABBREVIATIONS
3	D-15067	HIGGINS AVENUE - MAIN STREET TO 16 m W OF AUSTIN STREET
4	D-15068	HIGGINS AVENUE - 16 m W OF AUSTIN STREET TO 16 m W OF MAPLE STREET
5	D-15069	HIGGINS AVENUE - 16 m W OF MAPLE STREET TO 7 m W OF MEADE STREET
6	D-15070	HIGGINS AVENUE - 7 m W OF MEADE STREET TO 18 m W OF ARGYLE STREET
7	D-15071	HIGGINS AVENUE - 18 m W OF ARGYLE STREET TO 7 m W OF DISRAELI FREEWAY
8	D-15072	HIGGINS AVENUE - 7 m W OF DISRAELI FREEWAY TO 40 m W OF GOMEZ STREET
9	D-15073	HIGGINS AVENUE - 40 m W OF GOMEZ STREET TO 48 m E OF GOMEZ STREET
10	D-15074	HIGGINS AVENUE - 48 m E OF GOMEZ STREET TO 21 m W OF CURTIS STREET
11	D-15075	HIGGINS AVENUE - 21 m W OF CURTIS STREET TO 47 m E OF ANNABELLA STREET
12	D-15076	HIGGINS AVENUE - 47 m E OF ANNABELLA STREET TO 38 m E OF ACORES STREET
13	D-15077	HIGGINS AVENUE - 38 m E OF ACORES STREET TO 83 m W OF MORDAUNT STREET
14	D-15078	HIGGINS AVENUE - 83 m W OF MORDAUNT STREET TO MORDAUNT STREET
15	D-15079	MACDONALD AVENUE - WATERFRONT DRIVE TO GOMEZ STREET
16	D-15080	GOMEZ STREET - 9 m S OF MACDONALD AVENUE TO 30 m S OF HIGGINS AVENUE
17	D-15081	GOMEZ STREET - 30 m S OF HIGGINS AVENUE TO 30 m N OF HIGGINS AVENUE
18	D-15082	CURTIS STREET - 100 m S OF HIGGINS AVENUE TO 5 m N OF HIGGINS AVENUE
19	D-15083	CURTIS STREET - 5 m N OF HIGGINS AVENUE TO 120 m N OF HIGGINS AVENUE
20	D-15084	ANNABELLA STREET - 90 m S OF HIGGINS AVENUE TO HIGGINS AVENUE

ABBREVIATIONS

WWS	WASTE WATER SEWER
CS	COMBINED SEWER
LDS	LAND DRAINAGE SEWER
ℓ	PROPERTY LINE
⊕	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 SYSTEM
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	⊗	⊗
CURB STOP	⊙	⊙
REDUCER	∠	∠
COUPLING OR SLIDDER	X	X
CROSS	⊕	⊕
BEND - 11.25°, 22.5°, 45°, 90°	H H H H H H H H H H	H H H H H H H H H H
TEE	⊕	⊕
VERTICAL BEND	H	H
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 ℓ	—	—
LOT LINE	—	—
SIDEWALK - PATHWAY	—	—
EASEMENT	—	—
EDGE OF BUILDING	—	—
MAILBOX	⊕	⊕
PARKING METER	⊕	⊕
WASTE RECEPTACLE	⊕	⊕
TEST HOLE	⊕	⊕
TREE LINE OR BUSH SIGN	—	—

PLAN VIEW

DESCRIPTION	EXISTING	PROPOSED
WATER PIPE	—	—
HYDRANT TOP	+	+
VALVE	∠	∠
TEE OR CROSS	⊕	⊕
COUPLING OR BEND	X	X
REDUCER	∠	∠
END OF PIPE	⊕	⊕
SEWER PIPE	—	—
UNPAVED GROUND SURFACE	—	—
PAVED GROUND SURFACE - ℓ 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	⊕	⊕

PROFILE

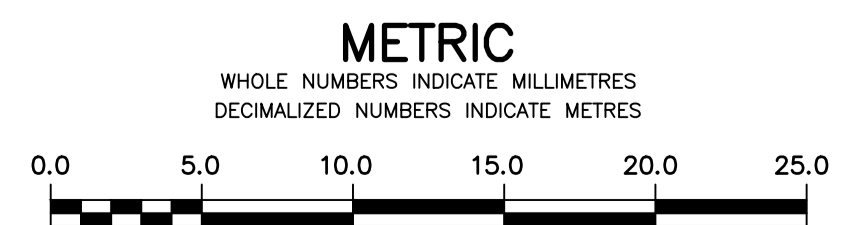
DESCRIPTION	EXISTING	PROPOSED
WATER PIPE	—	—
HYDRANT TOP	+	+
VALVE	∠	∠
TEE OR CROSS	⊕	⊕
COUPLING OR BEND	X	X
REDUCER	∠	∠
END OF PIPE	⊕	⊕
SEWER PIPE	—	—
UNPAVED GROUND SURFACE	—	—
PAVED GROUND SURFACE - ℓ PIPE	—	—
GUTTER (NORTH AND WEST)	—	—
GUTTER (SOUTH AND EAST)	—	—
⊕ DITCH (NORTH AND WEST)	—	—
⊕ DITCH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

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

CONSTRUCTION NOTES

1. EXPOSE EXISTING WATER MAIN & CONFIRM INVERTS PRIOR TO CONSTRUCTION.
2. LOCATION OF ALL SERVICES TO BE CONFIRMED IN THE FIELD.
3. INSTALL WATER MAIN BY TRENCHLESS METHODS.
4. TRENCHES AND EXCAVATIONS WITHIN 1 METRE OF A PAVED AREA INCLUDING SIDEWALKS SHALL BE CLASS 3 BACKFILL.
5. ALL MATERIALS SHALL CONFORM TO THE LATEST VERSION OF THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
6. MINIMUM COVER TO TOP OF WATER MAIN SHALL BE 2.4 m.
7. 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.
8. REPLACE ALL EXISTING LEAD SERVICES FROM PROPOSED WATER MAIN TO ℓ.
9. NOTIFY ALL AFFECTED RESIDENTS AND BUSINESSES 24 HOURS IN ADVANCE OF ANY WATER SHUTDOWNS OR DISRUPTION OF SERVICE.



LOCATION APPROVED UNDERGROUND STRUCTURES		B.M. 35-001 ELEV. 233.054		3-F - Bolt in W. wall of Concourse, C.P.R. Station, Higgins Ave., 15.5 m N. S.W. Cor. of Concourse.	
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	JKH	CHECKED BY	HAK
DRAWN BY	DML	APPROVED BY	BWB
SCALE:	N/A		
HORIZONTAL	N/A		
VERTICAL	N/A		
DATE	2018 08 09	DATE	

ENGINEER'S SEAL
ORIGINAL SIGNED BY H.A. KATZ
2018 04 16

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

2018 WATER MAIN RENEWALS
CONTRACT 1

INDEX PAGE

SHEET 2 OF 20
CITY DRAWING NUMBER
D-15066