

# DRAWING INDEX

SHEET NUMBER	CITY OF WINNIPEG DRAWING NUMBER	DRAWING TITLE
1	D-16439	COVER PAGE
2	D-16440	DRAWING INDEX, DESIGN NOTES, LEGEND, & ABBREVIATIONS
3	D-16441	BUXTON ROAD - CRANE AVENUE TO 115 N OF CRANE AVENUE
4	D-16442	BUXTON ROAD - 115 N OF CRANE AVENUE TO 240 N OF CRANE AVENUE
5	D-16443	BUXTON ROAD - 240 N OF CRANE AVENUE TO DOWKER AVENUE
6	D-16444	ISBISTER STREET - HAMILTON AVENUE TO 155 S OF CAPULET CRESCENT
7	D-16445	ISBISTER STREET - 155 S OF CAPULET CRESCENT TO 30 S OF CAPULET CRESCENT
8	D-16446	ISBISTER STREET - 30 S OF CAPULET CRESCENT TO 95 N OF CAPULET CRESCENT
9	D-16447	ISBISTER STREET - 95 N OF CAPULET CRESCENT TO 13.5 S OF LUMSDEN AVENUE
10	D-16448	ISBISTER STREET - 13.5 S OF LUMSDEN AVENUE TO 90.5 N LUMSDEN AVENUE
11	D-16449	ISBISTER STREET - 90.5 N LUMSDEN AVENUE TO RISBEY CRESCENT
12	D-16450	RILEY CRESCENT - DOWKER AVENUE TO 113 E OF DOWKER AVENUE
13	D-16451	RILEY CRESCENT - 113 E OF DOWKER AVENUE TO BUXTON ROAD

## ABBREVIATIONS

WWS	WASTE WATER SEWER
CS	COMBINED SEWER
LDS	LAND DRAINAGE SEWER
R	PROPERTY LINE
CL	CENTER 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 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
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	PLAN VIEW		
	ABANDONED	EXISTING	PROPOSED
WATER PIPE			
FIRE HYDRANT	⊗	⊗	⊕
VALVE	⊗	⊗	⊕
CURB STOP	◁	◁	◁
REDUCER	◁	◁	◁
COUPLING OR SLIDER	X	X	X
CROSS	X	X	X
BEND - 11.25°, 22.5°, 45°, 90°	H H H H	H H H H	H H H H
TEE	H	H	H
VERTICAL BEND	H	H	H
ANODE		⊕	⊕
REPAIR MARKER		⊕	⊕
PLUG	J	J	J
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 R		⊕	
LOT LINE		⊕	
SIDEWALK - PATHWAY		⊕	
EASEMENT		⊕	
EDGE OF BUILDING		⊕	
MAILBOX		⊕	
PARKING METER		⊕	
TEST HOLE		⊕	
TREE LINE OR BUSH		⊕	

## 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

- EXPOSE EXISTING WATERMAIN & CONFIRM INVERTS PRIOR TO CONSTRUCTION.
- LOCATION OF ALL SERVICES TO BE CONFIRMED IN THE FIELD.
- INSTALL WATERMAIN 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 WATERMAIN SHALL BE 2.4 m.
- REPLACE ALL EXISTING LEAD SERVICES FROM PROPOSED WATERMAIN TO R.
- NOTIFY ALL AFFECTED RESIDENTS AND BUSINESSES 24 HOURS IN ADVANCE OF ANY WATER SHUTDOWNS OR DISRUPTION OF SERVICE.

DESCRIPTION	PROFILE		
	ABANDONED	EXISTING	PROPOSED
WATER PIPE			
HYDRANT TOP		+	+
VALVE	X	X	X
TEE OR CROSS	⊕	⊕	⊕
COUPLING OR BEND			
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)		☉	☉
STRUCTURE			
MANHOLE OR CATCH BASIN			

<p align="center"><b>LOCATION APPROVED UNDERGROUND STRUCTURES</b></p> <p>SUPV. U/G STRUCTURES COMMITTEE DATE _____</p> <p>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.</p>	<p>B.M. ELEV.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>																																													<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DESIGNED BY: <b>RG</b></td> <td>CHECKED BY: <b>SC</b></td> </tr> <tr> <td>DRAWN BY: <b>AJ</b></td> <td>APPROVED BY: <b>KZ</b></td> </tr> </table> <p>SCALE: HORIZONTAL 1:250 VERTICAL 1:50</p> <p>RELEASED FOR CONSTRUCTION <i>[Signature]</i> DATE <b>Mar 9, 2023</b></p>	DESIGNED BY: <b>RG</b>	CHECKED BY: <b>SC</b>	DRAWN BY: <b>AJ</b>	APPROVED BY: <b>KZ</b>	<p>Digitally signed by Stacy Cournoyer, P. Eng. CONSULTANT DRAWING NUMBER: _____</p>	<p align="center"><b>THE CITY OF WINNIPEG</b> WATER AND WASTE DEPARTMENT ENGINEERING DIVISION</p> <p align="center"><b>2023 WATER MAIN RENEWALS</b> <b>CONTRACT 12</b></p> <p align="center"><b>INDEX PAGE</b></p>	<p align="center">SHEET <b>2</b> OF <b>13</b> CITY DRAWING NUMBER <b>D-16440</b></p>
DESIGNED BY: <b>RG</b>	CHECKED BY: <b>SC</b>																																																				
DRAWN BY: <b>AJ</b>	APPROVED BY: <b>KZ</b>																																																				
<p>BID OPPORTUNITY: 100-2023 CONTRACT NUMBER: 12 FILE PATH: R:\DRAWINGS\WATER\RENEWAL\2023 RENEWALS\Contract 12\Construction Dwg\ INDEX - CONTRACT 12.dwg</p>																																																					