### **DRAWING INDEX**

SHEET NUMBER	CITY OF WINNIPEG DRAWING NUMBER	DRAWING TITLE
01	D-16016	COVER PAGE
02	D-16017	DRAWING INDEX, DESIGN NOTES, LEGEND, & ABBREVIATIONS
03	D-16018	PORTAGE AVENUE - LIPTON ST TO 15.9 E OF RUBY ST
04	D-16019	PORTAGE AVENUE - 15.9 E OF RUBY ST TO 32.6 E OF LENORE ST
05	D-16020	PORTAGE AVENUE - 32.6 E OF LENORE ST TO 8.0 W OF ARLINGTON ST
06	D-16021	PORTAGE AVENUE - 8.0 W OF ARLINGTON ST TO 3.5 W OF HOME ST
07	D-16022	PORTAGE AVENUE - 3.5 W OF HOME ST TO 52.0 W OF CANORA ST
08	D-16023	PORTAGE AVENUE - 52.0 W OF CANORA ST TO 50.0 W OF BROADWAY
09	D-16024	PORTAGE AVENUE - 50.0 W OF BROADWAY TO BROADWAY
10	D-16025	EVANSON STREET - 7.2 S OF S L PORTAGE AVE TO 6.8 S OF N L PORTAGE AVE
11	D-16026	ARLINGTON STREET - 6.7 S OF S L PORTAGE AVE TO 8.2 N OF N L PORTAGE AVE
12	D-16027	HOME STREET - 4.5 S OF S L PORTAGE AVE TO 4.1 N OF N L PORTAGE AVE

### **ABBREVIATIONS**

WWS	WASTE WATER SEWER		
cs	COMBINED SEWER		
LDS	LAND DRAINAGE SEWER		
PL	PROPERTY LINE		
ę	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			
C/S OR S/C	OPPOSITE 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		
Ε	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		

# **CONSTRUCTION NOTES**

- 1. EXPOSE EXISTING WATERMAIN & CONFIRMED INVERTS PRIOR TO CONSTRUCTION.
- 2. LOCATION OF ALL SERVICES TO BE CONFIRMED IN THE FIELD.
- 3. INSTALL WATERMAIN 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 CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.

ELEV. 230.270

- 6. MINIMUM COVER TO TOP OF WATERMAIN SHALL BE 2.4 m.
- 7. REPLACE ALL EXISTING LEAD SERVICES FROM PROPOSED WATERMAIN TO P.
- 8. NOTIFY ALL AFFECTED RESIDENTS AND BUSINESSES 24 HOURS IN ADVANCE OF WATER SHUTDOWNS OR DISRUPTION OF SERVICE.

## **LEGEND**

P	LAN VIEW	
DESCRIPTION	EXISTING	PROPOSED
WATER PIPE		
FIRE HYDRANT VALVE	- <b>∳</b> - ⊗	<del>▼</del> ⊗
CURB STOP	o`	•
REDUCER COUPLING OR SLIDDER		<b>∢</b> X
CROSS  BEND - 11.25°, 22.5°, 45°, 90°	H H	<del>В</del> н н ч ч
TEE VERTICAL BEND	Д Н	<b>А</b> н
ANODE	₽,	₹
REPAIR MARKER PLUG	♥	j
SEWER PIPE		
MANHOLE	0	<u>•</u>
CATCH BASIN CURB INLET	$\Box$	<b>■</b>
JUNCTION		
© DITCH		
CULVERT		
SURVEY BAR	<del>+</del>	<b>+</b>
SURVEY MONUMENT	(A)	•
TREE - DECIDUOUS	( )	
TREE — CONIFEROUS  HYDRO		
HYDRO POLE	•H	
LAMP STANDARD  HYDRO POLE W/STREET LIGHTING	<b>←</b> •	
POLE	•	
GUY ANCHOR	<del>(</del>	
M.T.S. POLE PEDESTAL OR BOX	•м ⊠	
CABINET		
M.T.S., SHAW, OR VIDEON TRAFFIC SIGNALS		
TRAFFIC LIGHT STANDARD	<b>↔</b>	
GAS STEAM		
FIBRE OPTIC		
FENCE		
EDGE OF PAVEMENT OR GUTTER  EDGE UNPAVED OR GRAVEL ROAD		
ዊ		
PROJECTED PL LOT LINE		
SIDEWALK — PATHWAY		
EASEMENT		
EDGE OF BUILDING		
MAILBOX	M	
PARKING METER TEST HOLE	P - <b>⊕</b> -	<b>4</b>
TREE LINE OR BUSH	~~~~	•
	PROFILE	
DESCRIPTION	EXISTING	PROPOSED
WATER PIPE		
HYDRANT TOP	+	+
VALVE		X
TEE OR CROSS		0
COUPLING OR BEND		
REDUCER		
END OF PIPE	8	8
SEWER PIPE		
UNPAVED GROUND SURFACE (SOUTH)		
UNPAVED GROUND SURFACE (NORTH)	— TIXII — 17711— -	
PAVED GROUND SURFACE - & PIPE (NORTH)		
PAVED GROUND SURFACE - & PIPE (SOUTH)		
GUTTER (NORTH AND WEST) GUTTER (SOUTH AND EAST)		
STRUCTURE		•
		ļ
MANHOLE OR CATCH BASIN		į
		i

LOCATION APPROVED UNDERGROUND STRUCTURES
SUPV. U/G STRUCTURES DATE COMMITTEE
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.

DESIGNED DRAWN 3 ADDENDUM 1 2021/05/06 R.H. 2 RE-ISSUED FOR TENDER 2021/04/29 R.H. 1 ISSUED FOR TENDER 2021/04/28 R.H. HORIZONTAL 2021/04/27 R.H. VERTICAL ISSUED FOR DESIGN REVIEW DATE

B.M. IRON BAR AT NE BLVD OF WATT ST/MUNROE AVE INTERSECTION

ENGINEER'S SEAL WSP Canada Inc. Suite 111 - 93 Lombard Ave Winnipeg, MB R3B 3B1 t. 204.943.3178 f. 204.943.4948 www.wsp.com CHECKED S.M. R.H. APPROVED S.M. R.H.

RELEASED FOR CONSTRUCTION

1:50

2021 05 07

NOT FOR CONSTRUCTION

CONSULTANT DRAWING NUMBER

211-00299-00-02

Winnipeg

THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT

ENGINEERING DIVISION

2021 WATER MAIN RENEWAL-CONTRACT 07

SHEET **02** OF **13** CITY DRAWING NUMBER

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D-16017

BID OPPORTUNITY: 249—2021 FILE PATH: P:\2021\211—00299—00 — 2021 Watermain Renewals Contract 7\14.0 Tech & Professional Services\10 Drawings\03 Work CONTRACT NUMBER:CONTRACT 07 FILE NAME: 211—00299\_COW\_Water\_Index Page\_A1.dwg

#### **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