

**DRAWING INDEX**

SHEET NUMBER	CONSULTANT DRAWING NUMBER	CITY OF WINNIPEG DRAWING NUMBER	DRAWING TITLE
1	C01	D-17448	COVER SHEET
2	C02	D-17449	INDEX SHEET & GENERAL NOTES
3	C03	D-17450	ROYAL CRESCENT (NORTH LEG) - ROYAL CRESCENT (WEST LEG) TO McGREGOR STREET
4	C04	D-17451	ROYAL CRESCENT (WEST LEG) - ROYAL CRESCENT (SOUTH LEG) TO ROYAL CRESCENT (NORTH LEG)
5	C05	D-17452	ROYAL CRESCENT (SOUTH LEG) - ROYAL CRESCENT (WEST LEG) TO McGREGOR STREET
6	C06	D-17453	ROYAL AVENUE - McGREGOR STREET TO 85.0m E OF McGREGOR STREET
7	C07	D-17454	ROYAL AVENUE - 96.3m W OF ANDREWS STREET TO ANDREWS STREET
8	C08	D-17455	LEILA AVENUE - MAIN STREET TO 85.0 E OF MAIN STREET
9	C09	D-17456	LEILA AVENUE - 85.0 E OF MAIN STREET TO 8.3m W OF MARYMOUND WAY
10	C10	D-17457	LEILA AVENUE - 8.3m W OF MARYMOUND WAY TO 101.6 E OF MARYMOUND WAY
11	C11	D-17458	LEILA AVENUE - 101.6 E OF MARYMOUND WAY TO 77.2m W OF SCOTIA STREET
12	C12	D-17459	LEILA AVENUE - 77.2m W OF SCOTIA STREET TO SCOTIA STREET
13	C13	D-17460	MARYMOUND WAY - LEILA AVENUE TO NEWTON AVENUE
14	C14	D-17461	SCOTIA STREET - SCOTIA STREET S LIMIT TO 36.5 N OF LEILA AVENUE
15	C15	D-17462	SCOTIA STREET - 56.1 S OF NEWTON AVENUE TO NEWTON AVENUE
16	C16	D-17463	FORTIER AVENUE - HENDERSON HIGHWAY TO 100.0m E OF HENDERSON HIGHWAY
17	C17	D-17464	FORTIER AVENUE - 100.0m E OF HENDERSON HIGHWAY TO 225.0m E OF HENDERSON HIGHWAY

**ABBREVIATIONS**

WWS	WASTE WATER SEWER
CS	COMBINED SEWER
LDS	LAND DRAINAGE SEWER
PL	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
FM	FEEDERMAIN
FCM	FORCE MAIN (PRESSURIZED SEWER MAIN)

**LEGEND**

DESCRIPTION	PLAN VIEW		
	ABANDONED	EXISTING	PROPOSED
WATER PIPE	---	---	---
FIRE HYDRANT		+	+
VALVE	⊗	⊗	⊗
CURB STOP	o	o	o
REDUCER	∠	∠	∠
COUPLING OR SLUDDER		X	X
CROSS	⊕	⊕	⊕
BEND - 11.25', 22.5', 45', 90'	H A A A A	H A A A A	H A A A A
TEE	⊥	⊥	⊥
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 CUTTER		+	+
EDGE UNPAVED OR GRAVEL ROAD		+	+
∅		+	+
PROJECTED ∅		+	+
LOT LINE		+	+
SIDEWALK - PATHWAY		+	+
EASEMENT		+	+
EDGE OF BUILDING		+	+
MAILBOX		+	+
PARKING METER		+	+
TEST HOLE		+	+
TREE LINE OR BUSH		+	+

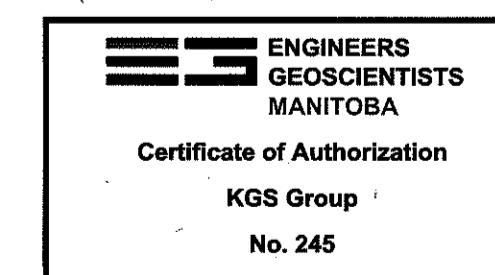
**HATCH PATTERNS**

	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 1.0m OF A PAVED AREA INCLUDING SIDEWALKS SHALL BE CLASS 3 BACKFILL.
5. ALL MATERIALS SHALL CONFORM TO THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
6. MINIMUM COVER TO TOP OF WATER MAIN SHALL BE 2.4m.
7. REPLACE ALL EXISTING LEAD SERVICES FROM PROPOSED WATER MAIN TO PL.
8. 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	⊗	⊗	⊗
TEE OR CROSS	⊥	⊥	⊥
COUPLING OR BEND	∠	∠	∠
REDUCER	∠	∠	∠
END OF PIPE		o	o
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			



<b>LOCATION APPROVED UNDERGROUND STRUCTURES</b> 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.	VERTICAL DATUM: CGVD28 (HT2.0 Geoid) HORIZONTAL DATUM: NAD83 (June 1990), Zone 14	<b>KGS GROUP</b> DESIGNED BY: JOM CHECKED BY: SLF DRAWN BY: GEL APPROVED BY: TLE SCALE: HORIZONTAL AS NOTED VERTICAL AS NOTED	ENGINEER'S SEAL 	THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT ENGINEERING SERVICES DIVISION 2026 WATER MAIN RENEWALS CONTRACT 7	SHEET 2 OF 17 CITY DRAWING NUMBER D-17449
	0 ISSUED FOR TENDER 2026/04/17 TLE NO. DATE (YYYY/MM/DD) BY				