

### DRAWING INDEX

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02	D-16320	DRAWING INDEX, DESIGN NOTES, LEGEND, & ABBREVIATIONS
03	D-16321	DALY STREET NORTH - LORETTE AVENUE TO 8.5 SSL DUDLEY AVENUE
04	D-16322	DALY STREET NORTH - 8.5 SSL DUDLEY AVENUE TO PEMBINA HIGHWAY
05	D-16323	DUDLEY AVENUE ? PEMBINA HIGHWAY TO 45.9 EEL DALY STREET NORTH
06	D-16324	HARKNESS AVENUE - STRADBROOK AVENUE TO BELL AVENUE
07	D-16325	BELL AVENUE - HARKNESS AVENUE TO ARCTIC STREET
08	6-16326	SPENCE STREET - 52.2>NNL BROADWAY TO 145.2>NNL BROADWAY
09	D-16327	SPENCE STREET - 145.2>NNL BROADWAY TO 135.1 SSL ST MARY AVENUE
10	D-16328	SPENCE STREET - 135.1 SSL ST MARY AVENUE TO 27.0 SSL ST MARY AVENUE

### 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	EXISTING	PROPOSED
WATER PIPE	---	---
FIRE HYDRANT	+	+
VALVE	⊗	⊗
CURB STOP	◊	◊
REDUCER	◁	▷
COUPLING OR SLIDDER	X	X
CROSS	⊕	⊕
BEND - 11.25', 22.5', 45', 90'	⋈	⋈
TEE	⋈	⋈
VERTICAL BEND	⋈	⋈
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 €	---	---
LOT LINE	---	---
SIDEWALK - PATHWAY	---	---
EASEMENT	---	---
EDGE OF BUILDING	---	---
MAILBOX	⊕	⊕
PARKING METER	⊕	⊕
TEST HOLE	⊕	⊕
TREE LINE OR BUSH	---	---

### CONSTRUCTION NOTES

- EXPOSE EXISTING WATERMAIN & CONFIRMED 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 WATER SHUTDOWNS OR DISRUPTION OF SERVICE.
- CONTRACTOR TO MAINTAIN MINIMUM 1.0m CLEARANCE FROM TRAFFIC SIGNAL POLES AND CONTROLLERS WHERE POSSIBLE

### 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

### 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 - € PIPE	---	---
GUTTER (NORTH AND WEST)	---	---
GUTTER (SOUTH AND EAST)	---	---
€ DITCH (NORTH AND WEST)	---	---
€ DITCH (SOUTH AND EAST)	---	---
STRUCTURE	---	---
MANHOLE OR CATCH BASIN	---	---

LOCATION APPROVED UNDERGROUND STRUCTURES SUPV. U/G STRUCTURES COMMITTEE DATE		B.M. ELEV.		1600 Buffalo Place Winnipeg, Manitoba R3T 6B8 Canada Phone: 204-477-6650 wsp.com	ENGINEER'S SEAL
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 BY K.G. CHECKED BY S.M. DRAWN BY K.G. APPROVED BY S.M.	SCALE: HORIZONTAL 1:250 VERTICAL 1:50	RELEASED FOR CONSTRUCTION DATE 2022 05 12	CONSULTANT DRAWING NUMBER 221-02275-00-02
THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT ENGINEERING DIVISION 2022 WATER MAIN RENEWALS - CONTRACT 9 INDEX PAGE		SHEET 02 OF 10 CITY DRAWING NUMBER D-16320		BID OPPORTUNITY: 348-2022 CONTRACT NUMBER: CONTRACT 9 FILE PATH: P:\2022\221-02275-00 - 2022 Water Main Renewal - Contract B\14.0 Tech + Prof Services\14.11 Highways_Bridges\14-11-2022-02275-00_COW_Water_Index_Page_A1.dwg	