

DRAWING INDEX

SHEET NUMBER	CITY OF WINNIPEG DRAWING NUMBER	DRAWING TITLE
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3	D-13176	CORDOVA STREET - 87.5 S OF FLEET AVENUE TO FLEET AVENUE
4	D-13177	CORYDON AVENUE - GUELPH STREET TO 75 W OF HARROW STREET
5	D-13178	CORYDON AVENUE - 75 W OF HARROW STREET TO HARROW STREET
6	D-13179	GUELPH STREET - 87.5 S OF CORYDON AVENUE TO 5 S OF CORYDON AVENUE
7	D-13180	GUELPH STREET - 5 S OF CORYDON AVENUE TO MCMILLAN AVENUE
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9	D-13182	UBIQUE CRESCENT (N LEG) - DONCASTER STREET TO UBIQUE CRESCENT (E LEG)
10	D-13183	WAVERLEY STREET - CORYDON AVENUE TO 82.50 N OF CORYDON AVENUE
11	D-13184	WAVERLEY STREET - 82.50 N OF CORYDON AVENUE TO 187.50 N OF CORYDON AVENUE
12	D-13185	WAVERLEY STREET - 187.50 N OF CORYDON AVENUE TO 312.50 N OF CORYDON AVENUE
13	D-13186	WAVERLEY STREET - 312.50 N OF CORYDON AVENUE TO GROSVENOR AVENUE
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ABBREVIATIONS

WWS	WASTE WATER SEWER
CS	COMBINED SEWER
LDS	LAND DRAINAGE SEWER
ℙ	PROPERTY LINE
℄	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	⊕	⊕
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	⊕	⊕
GLY 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

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

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	⊕	⊕
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		B.M. ELEV.		ENGINEER'S SEAL	
SUPV. U/G STRUCTURES COMMITTEE		CONSTRUCTION COMPLETION DATE: YYYY MM DD		ORIGINAL SIGNED BY S.R.J. COURNOYER 13.04.08	
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 LA/RD DRAWN BY CJH		CHECKED BY SC APPROVED BY KZ	
NO. REVISIONS DATE BY		SCALE: HORIZONTAL 1:250 VERTICAL 1:50		RELEASED FOR CONSTRUCTION K.R. ZUREK	
DATE 2013 04 09		DATE 13.04.09		CONSULTANT DRAWING NUMBER	
PLOT DATE: 2013 04 09		BID OPPORTUNITY: 286-2013 CONTRACT NUMBER: 1		THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT ENGINEERING DIVISION 2013 WATER RENEWALS	
				SHEET 1 OF 15 CITY DRAWING NUMBER	
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