DRAWING INDEX

SHEET NUMBER	CITY OF WINNIPEG DRAWING NUMBER	DRAWING TITLE
1	D-15035	COVER PAGE
2	D-15036	DRAWING INDEX, DESIGN NOTES, LEGEND, & ABBREVIATIONS
3	D-15037	BLUE HERON CRESCENT (W-LEG) - COLDSTREAM AVENUE TO BLUE HERON CRESCENT (S-LEG)
4	D-15038	BLUE HERON CRESCENT (S-LEG) - BLUE HERON CRESCENT (W-LEG) TO 53 E OF BLUE HERON CRESENT (W-LEG)
5	D-15039	WALDEN CRESCENT (N-LEG) - BLUE HERON CRESCENT (W-LEG) TO 115 E OF BLUE HERON CRESCENT (W-LEG)
6	D-15040	WALDEN CRESCENT (N-LEG) - 115 E OF BLUE HERON CRESCENT (W-LEG) TO WALDEN CRESCENT (E-LEG)
7	D-15041	WALDEN CRESCENT (E-LEG) - WALDEN CRESCENT (N-LEG) TO VICTORIA AVENUE EAST
8	D-15042	PARADE DRIVE – 209 W OF REGINA PLACE TO REGINA PLACE
9	D-15043	ROWANDALE CRESCENT – 200 E OF KILDONAN DRIVE TO 277.5 E OF KILDONAN DRIVE
10	D-15044	ROWANDALE CRESCENT – 277.5 E OF KILDONAN DRIVE TO ROWANDALE AVENUE
11	D-15045	WAYOATA STREET – ST CLAIRE BOULEVARD TO 13 S OF ST MARTIN BOULEVARD
12	D-15046	WAYOATA STREET - 13 S OF ST MARTIN BOULEVARD TO 29 S OF WHITEHALL BOULEVARD
13	D-15047	WAYOATA STREET – 29 S OF WHITEHALL BOULEVARD TO KILDARE AVENUE

<u>HATCH</u>	PATTERNS

EXISTING	PROPOSED	DESCRIPTION	3. IN
		EARTH OR GROUND ABOVE PIPE	4. TI 5. A
		SAND OR OTHER FINE MATERIAL	6. M 7. R 8. N
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0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	. ° 	WASHED STONE OR GRANULAR MATERIAL	
		INTERLOCKING STONE	
		METAL	LOCATION
		GRAVEL OR STONE	SUPV. U/G STRUCTURE COMMITTEE

ABBREVIATIONS

WWS	WASTE WATER SEWER
CS	COMBINED SEWER
LDS	LAND DRAINAGE SEWER
ዊ	PROPERTY LINE
ቒ	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
МН	MANHOLE
СВ	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
Ν	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

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 P.
- 8. NOTIFY ALL AFFECTED RESIDENTS AND BUSINESSES 24 HOURS IN ADVANCE OF ANY WATER SHUTDOWNS OR DISRUPTION OF SERVICE.

LOCATION APPROVED UNDERGROUND STRUCTURES	B.M. ELEV.								ENGINEER'S SEAL
SUPV. U/G STRUCTURES DATE									ORIGINAL SIGNED By S.R.J. Cournoy
COMMITTEE					DESIGNED T	-s	CHECKED BY	SC	18/04/30
NOTE: LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION					DRAWN BY R	RS	APPROVED BY	ΚZ	
AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN					SCALE:		RELEASED FOR		
LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL					HORIZONTAL 1:25 VERTICAL 1:50		CONSTRUCTION	ZUREK	CONSULTANT DRAWING NUMBER
UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.	NO.	REVISIONS	DATE	ΒY	DATE 2018 04	4 30	date 20	18 04 30	
					PLOT DATE: 201	8 04 30			BID OPPORTUNITY: 135-2018

<u>LEGEND</u>

WATER PIPE FIRE HYDRANT			
		- 수 -	+
VALVE	\otimes	\otimes	* 8
CURB STOP REDUCER	° [*]	♂ ⊲	۰ ^۲ ۲
COUPLING OR SLIDDER	7	X	x
CROSS	田 日 4 4 4		— Ө
BEND – 11.25°, 22.5°, 45°, 90° TEE	Д Д Ц	 	<u>д</u> д
VERTICAL BEND	н	н	н
ANODE REPAIR MARKER		r P	5
PLUG	3	2	C
SEWER PIPE	 O		
MANHOLE CATCH BASIN			
CURB INLET	∇	∇	▼
JUNCTION			
ହୁ DITCH			
CULVERT SURVEY BAR			
SURVET BAR		4	Ť.
TREE - DECIDUOUS		$\left\{ \cdot \right\}$	
		AND -	
TREE - CONIFEROUS		- ALL	
HYDRO			
HYDRO POLE LAMP STANDARD		●H ●─●	
HYDRO POLE W/STREET LIGHTING		He	
POLE GUY ANCHOR		•	
M.T.S. POLE		•M	
PEDESTAL OR BOX			
CABINET		\boxtimes	
M.T.S., SHAW, OR VIDEON		· · · · · ·	· · · ·
TRAFFIC SIGNALS TRAFFIC LIGHT STANDARD			· · ·
GAS			
STEAM			
FIBRE OPTIC FENCE			
EDGE OF PAVEMENT OR GUTTER			
DGE UNPAVED OR GRAVEL ROAD 문			
"L PROJECTED ዊ			
LOT LINE			
SIDEWALK – PATHWAY EASEMENT			
EDGE OF BUILDING			
MAILBOX		M	
PARKING METER		P	
TEST HOLE		◆	
TREE LINE OR BUSH			
		PROFILE	
DESCRIPTION	ABANDONED	EXISTING	PROPOSED
WATER PIPE			
HYDRANT TOP		+	+
			V
VALVE	<u></u>	<u></u>	^
TEE OR CROSS			
COUPLING OR BEND			I
REDUCER			
END OF PIPE		6	б
SEWER PIPE			·
UNPAVED GROUND SURFACE		TAKEN TAK	
VED GROUND SURFACE — € PIPE GUTTER (NORTH AND WEST)			
GUTTER (SOUTH AND EAST)			
<pre>€ DITCH (NORTH AND WEST)</pre> € DITCH (SOUTH AND EAST)			
STRUCTURE			
			ļ
MANHOLE OR CATCH BASIN			i
MANULL UN ONTON DASIN			
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