DRAWING INDEX

SHEET NUMBER	CITY OF WINNIPEG DRAWING NUMBER	DRAWING TITLE
1	10491	INDEX PAGE
2	10492	SOUTH DRIVE - CRANE AVENUE TO 375 N OF CRANE AVENUE
3	10493	SOUTH DRIVE - 375 N OF CRANE AVENUE TO 260 N OF DOWKER AVENUE
4	10494	SOUTH DRIVE - 260 N OF DOWKER AVENUE TO POINT ROAD
5	10495	POINT ROAD — SOUTH DRIVE TO MANCHESTER BOULEVARD N AND OAKENWALD AVENUE TO MANCHESTER BOULEVARD N
6	10496	OAKENWALD AVENUE — POINT ROAD TO NETLEY STREET NETLEY STREET — OAKENWALD AVENUE TO RIVERWOOD AVENUE
7	10497	PROPOSED BY-PASS MANHOLE - SECTIONS AND DETAILS
8	10498	WILLOW PUMPING STATION UPGRADES

ABBREVIATIONS

wws	WASTE WATER SEWER
cs	COMBINED SEWER
LDS	LAND DRAINAGE SEWER
ę.	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	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
a	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/	WTH
C/W	CONSTRUCTED WITH
CONC	CONCRETE
AC	ASBESTOS CEMENT
VC OR CLAY	VITRIFIED CLAY
а	CAST IRON
DI	DUCTILE IRON
PVC	POLYMNYL CHLORIDE
HDPE	HIGH DENSITY POLYETHYLENE
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE

LEGEND

	PLAN VIEW	
DESCRIPTION	EXISTING	PROPOSED
WATER PIPE		
FIRE HYDRANT	~	+
VALVE	8	•
CURB STOP	ď	*
REDUCER	∢	
COUPLING OR SLIDDER	x	x
CROSS	⊕	⊕
BEND - 11.25", 22.5", 45", 90"	4 4 4	4 4 4 7
TEE	д	A
VERTICAL BEND	н	н
ANODE	₽	-
REPAIR MARKER	•	
PLUG	j j	3
SEWER PIPE		
MANHOLE	0	•
CATCH BASIN		
CURB INLET	▼	▼
	1 1	1 1
JUNCTION		
€ DITCH	\rightarrow \rightarrow \rightarrow $-$	$\rightarrow \rightarrow \rightarrow \rightarrow -$
CULVERT	C======	C======
SURVEY BAR	+	•
SURVEY MONUMENT	•	\(\rightarrow\)
TREE - DECIDUOUS	Ŏ	Ŭ
TREE - CONIFEROUS	X	
	200	
HYDRO		
HYDRO POLE	•н	
LAMP STANDARD	••	
HYDRO POLE W/STREET LIGHTING	H o •	
POLE	•	
GUY ANCHOR	←	
M.T.S. POLE	•м	
PEDESTAL OR BOX	⊠	
CABINET	\bowtie	
M.T.S., SHAW, OR VIDEON		
TRAFFIC SIGNALS	_ · _ · _ · _	
TRAFFIC LIGHT STANDARD	•	
GAS		
STEAM		
FIBRE OPTIC		
FENCE	xx	xx
EDGE OF PAVEMENT OR GUTTER		
EDGE UNPAVED OR GRAVEL ROAD		
ę		
PROJECTED ₽		
LOT LINE		
SIDEWALK - PATHWAY		
EASEMENT		
EDGE OF BUILDING	Zumman)	
MAILBOX	<i>V</i> M	
PARKING METER	M P	
PARKING METER TEST HOLE	<u> </u>	
TREE LINE OR BUSH	♥	▼
IRLE LINE OR BUSH	~~~~	

HYDRANT TOP

DESCRIPTION WATER 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

PROFILE

]]]<u>}</u>

8

HATCH PATTERNS

EXISTING	PROPOSED	DESCRIPTION
		EARTH OR GROUND ABOVE PIPE
		SAND OR OTHER FINE MATERIAL
		CONCRETE
		GROUT
3 . O . d		WASHED STONE OR GRANULAR MATERIAL
		INTERLOCKING STONE
		METAL
		GRAVEL OR STONE

CONSTRUCTION NOTES

- 1. NO ALLOWABLE SHUTDOWN TIME.
- 2. CRITICAL BASEMENT ELEVATION: 225.582
- 3. REMOVE EXISTING PIPING AND FITTINGS AS REQUIRED.
- 4. PROVIDE TEMPORARY PUMPING OF WASTEWATER DURING CONSTRUCTION OF PUMPING STATION UPGRADES.
- 5. INSTALL MECHANICAL WORKS AS INDICATED AND ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- 6. EXCAVATIONS TO BE BACKFILLED WITH CLASS 3 OR CLASS 5 BACKFILL IN ACCORDANCE WITH CW 2030 AND SD-002.
- 7. FLANGE NUTS & BOLTS TO BE ASTM A276-TYPE 316 STAINLESS STEEL SIZED TO REQUIREMENTS OF FLANGE.
- 8. GASKETS TO BE FULL FACED, 3 THICK RED RUBBER.
- 9. CONTRACTOR TO CONFIRM ALL DIMENSIONS BEFORE ASSEMBLING PIPE.

Winnipeg

THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT ENGINEERING DIVISION

2013 RIVERWOOD FORCEMAIN REPLACEMENT SHEET 1 OF 8 AND WILLOW PUMPING STATION UPGRADES

INDEX PAGE

10491

FILE PATH: R:\DRAWINGS\SEWER\2011_RENEWALS\Riverwood Forcemain\
FILE NAME: 10491.dwg

LOCATION APPROVED UNDERGROUND STRUCTURES		B.M. ELEV. COSTRUCTION COMPLETION DATE: YYYY MM DD					ENGINEER'S SEAL
					1		
							ORIGINAL SIGNED
V. U/G STRUCTURES DATE							K.R. ZUREK
IMITTEE	ㄴ				DESIGNED DB	CHECKED KZ/SC	13/02/05
TE:	\vdash				BY DB	BY KZ/SC	
LOCATION OF UNDERGROUND STRUCTURES AS HOWN ARE BASED ON THE BEST INFORMATION NUMBER BUT NO GUARANTEE IS GIVEN THAT AT STRING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT					DRAWN CJH	APPROVED KZ	
					ву СЛП	BY IVE	
					SCALE:	RELEASED FOR CONSTRUCTION	
					HORIZONTAL 1:250	CONSTRUCTION	CONSULTANT DRAWING NUMBER
VICES MUST BE OBTAINED FROM THE INDIVIDUAL	NO.				VERTICAL 1:50		_ I
LITIES BEFORE PROCEEDING WITH CONSTRUCTION.		REVISIONS	DATE	BY	DATE 2013 02 05	DATE	-