

**DRAWING INDEX**

SHEET NUMBER	CITY OF WINNIPEG DRAWING NUMBER	DRAWING TITLE
1	D-13968	DRAWING INDEX, DESIGN NOTES, LEGEND, & ABBREVIATIONS
2	D-13916	HARWICK LANE – EDMONTON DRIVE TO 123>NNL OF EDMONTON DRIVE
3	D-13917	ST. ANNE'S ROAD – OAKLEIGH PLACE TO LORAIN STREET
4	D-13918	PILGRIM AVENUE – ST. ANNE'S ROAD TO 75 EEL OF ST. ANNE'S ROAD
5	D-13919	PILGRIM AVENUE – 75 EEL OF ST. ANNE'S ROAD TO 158 EEL OF ST. ANNE'S ROAD
6	D-13920	FONTAINE CRESCENT – DE BOURMONT AVENUE TO 85 EEL OF BOURMONT AVENUE
7	D-13921	FONTAINE CRESCENT – 85 EEL OF DE BOURMONT AVE TO 17 SSL OF FLEURY PL.
8	D-13922	ENFIELD CRESCENT – GOULET STREET TO 100>NNL OF GOULET STREET
9	D-13923	ENFIELD CRESCENT – 100>NNL OF GOULET STREET TO BERTRAND STREET
10	D-13924	BREWSTER BAY (N LEG) – BREWSTER BY (W. LEG) TO BREWSTER BAY (E. LEG)
11	D-13925	BREWSTER BAY (E LEG) – BREWSTER BY (N. LEG) TO HORTON AVENUE
12	D-13926	WHITESHELL AVENUE – HAYES STREET TO 4m EEL BERENS STREET
13	D-13927	WHITESHELL AVENUE – 4 EEL OF BERENS TO WINONA STREET
14	D-13928	BERENS STREET – MCMEAN AVENUE WEST TO 75>NNL OF MCMEAN AVE W
15	D-13929	BERENS STREET – MCMEAN AVENUE WEST TO WHITESHELL AVENUE
16	D-13930	LACY STREET – DEARBORN AVENUE TO GORDON AVENUE
17	D-13931	EDISON AVENUE – BROAD BY (E LEG) TO 110 EEL OF BROAD BAY
18	D-13932	EDISON AVENUE – 110 EEL OF BROAD BAY TO DE GRAFF PLACE

**ABBREVIATIONS**

WWS	WASTE WATER SEWER
CS	COMBINED SEWER
LDS	LAND DRAINAGE SEWER
ε	PROPERTY LINE
ε	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
EX	EXISTING
N	NORTH
E	EAST
S	SOUTH
W	WEST
W/	WITH
C/W	CONSTRUCTED WITH
CONC	CONCRETE
VC OR CLAY	ASBESTOS CEMENT
VC	VITRIFIED CLAY
CI	CAST IRON
DI	DUCTILE IRON
PVC	POLYVINYL CHLORIDE
HDPE	HIGH DENSITY POLYETHYLENE
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE

**LEGEND**

DESCRIPTION	PLAN VIEW	
	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		
CULVERT		
SURVEY BAR		
SURVEY MONUMENT		
TREE – DECIDUOUS		
TREE – CONIFEROUS		
HYDRO		
HYDRO POLE		
LAMP STANDARD		
GUY ANCHOR		
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		
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 ε.
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	PROFILE	
	EXISTING	PROPOSED
WATER PIPE		
HYDRANT TOP		
VALVE		
TEE OR CROSS		
COUPLING OR BEND		
REDUCER		
END OF PIPE		
SEWER PIPE		
UNPAVED GROUND SURFACE		
ε ROAD		
MANHOLE OR CATCH BASIN		



LOCATION APPROVED UNDERGROUND STRUCTURES 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.		B.M. ELEV. CONSTRUCTION COMPLETION DATE: YYYY MM DD		ENGINEER'S SEAL CONSULTANT DRAWING NUMBER <b>G-002</b>	<b>THE CITY OF WINNIPEG</b> WATER AND WASTE DEPARTMENT ENGINEERING DIVISION <b>2015 WATERMAIN RENEWALS CONTRACT 1</b> <b>INDEX PAGE</b>	SHEET <b>1</b> OF <b>18</b> CITY DRAWING NUMBER <b>D-13968</b>
DESIGNED BY: JH CHECKED BY: RS DRAWN BY: JH APPROVED BY: RS SCALE: HORIZONTAL 1:250 VERTICAL 1:50 0 ISSUED FOR TENDER 15/03/24 R.S. NO. REVISIONS DATE BY DATE 2015 03 24	RELEASED FOR CONSTRUCTION DATE	BID OPPORTUNITY: 249-2015 CONTRACT NUMBER: 1 FILE PATH: V:\1112\active\111215690\0300_drawing\0302_sheet_files\02_civil\ FILE NAME: 15690g-002.dwg				