

**DRAWING INDEX**

SHEET NUMBER	CITY OF WINNIPEG DRAWING NUMBER	DRAWING TITLE
1	D-12502	COVER SHEET
2	D-12503	DRAWING INDEX, DESIGN NOTES, LEGEND, & ABBREVIATIONS
3	D-12504	8 FORKS MARKET ROAD - BETWEEN FORT GIBRALTER TRAIL AND ISRAEL ASPER WAY
4	D-12505	AIKINS STREET - MH AT POLSON AVENUE TO PLUG NORTH OF POLSON AVENUE
5	D-12506	AIKINS STREET - MH AT MACHRAY AVENUE TO MH AT CATHEDRAL AVENUE
6	D-12507	ALBERT STREET - 1ST MH SOUTH OF McDERMOT AVENUE
7	D-12508	ARCHIBALD STREET - 2ND MH SOUTH OF PLINGUET STREET
8	D-12509	ALLEY NORTH OF ESSAR AVENUE - 1ST MH WEST OF APPLETON STREET TO UNKNOWN ASSET
9	D-12510	HIGGINS AVENUE - MH AT ARGYLE STREET
10	D-12511	KEATS WAY (NORTH LEG) - 2ND MH WEST OF BEDSON STREET TO MH AT BEDSON STREET
11	D-12512	KINGSTON ROW - 2ND MH WEST OF MAGER DRIVE WEST TO 1ST MH WEST OF MAGER DRIVE WEST
12	D-12513	LIZZIE STREET - AT NORTH PROPERTY LINE LOGAN AVENUE
13	D-12514	LOGAN AVENUE - NODE AT MAUDE STREET TO 1ST MH EAST OF MAUDE STREET
14	D-12515	MARTHA STREET - 1ST MH NORTH OF LOGAN AVENUE
15	D-12516	NAVY WAY - 2ND MH NORTH OF ASSINIBOINE AVENUE TO 1ST MH NORTH OF ASSINIBOINE AVENUE
16	D-12517	PALLISER AVENUE (SOUTH LEG) - 2ND MH WEST OF MOUNT ROYAL ROAD TO 1ST MH WEST OF MOUNT ROYAL ROAD
17	D-12518	PLINGUET STREET - MH AT LAURIER STREET TO NODE AT DAWSON ROAD
18	D-12519	PORTAGE AVENUE EAST - 1ST MH WEST OF WESTBROOK STREET TO WESTBROOK STREET
19	D-12520	PORTAGE AVENUE - MH AT SUMACH STREET TO 1ST MH EAST OF SUMACH STREET
20	D-12521	ROYAL SALINGER ROAD - OUTLET AT FERMOR AVENUE TO MH AT NIAKWA ROAD
21	D-12522	SHERBROOK STREET - 2ND MH NORTH OF PORTAGE AVENUE TO 3RD MH NORTH OF PORTAGE AVENUE
22	D-12523	SMITH STREET - MH AT BROADWAY TO 1ST MH SOUTH OF BROADWAY
23	D-12524	SPENCE STREET - 3RD MH SOUTH OF ST MARY AVENUE TO 4TH MH SOUTH OF ST MARY AVENUE
24	D-12525	ST JAMES STREET - 2ND MH WEST OF SASKATCHEWAN AVENUE TO 1ST MH WEST OF SASKATCHEWAN AVENUE
25	D-12526	UNIVERSITY CRESCENT - 1ST MH NORTH OF THATCHER DRIVE TO MH AT THATCHER DRIVE
26	D-12527	VICTOR STREET - ELLICE AVENUE TO 1ST MH NORTH OF ELLICE AVENUE
27	D-12529	WILLIAM AVENUE - MH AT HARGRAVE STREET
28	D-12530	WINAKWA ROAD - MH AT SPEERS ROAD CENTRELINE TO MH AT SPEERS ROAD WEST PROPERTY
29	D-12531	MISCELLANEOUS DETAILS

**ABBREVIATIONS**

WWS CS LDS E E G.I.S. B.M. TH ELEV INV MH SL TS ABAND BLDG HSE C/S MTS R.O.W. MM CULV MH CB CI VERT. HORZ. I.B. FIBRE X-ING HYD EXST N E S W W/ C/W CONC AC VC OR CLAY CI DI PVC HDPE PCPP FM	WASTE WATER SEWER COMBINED SEWER LAND DRAINAGE SEWER PROPERTY LINE CENTER LINE GEOGRAPHIC INFORMATION SYSTEM BENCH MARK TEST HOLE ELEVATION INVERT MINIMUM STREET LIGHTING TRAFFIC SIGNALS ABANDONED BUILDING HOUSE CURB STOP MANITOBA TELEPHONE SYSTEM RIGHT-OF-WAY WATERMAIN CULVERT MANHOLE CATCH BASIN CURB INLET VERTICAL HORIZONTAL IRON BAR FIBRE OPTIC CROSSING HYDRANT EXISTING NORTH EAST SOUTH WEST WITH CONSTRUCTED WITH CONCRETE ASBESTOS CEMENT VITRIFIED CLAY CAST IRON DUCTILE IRON POLYVINYL CHLORIDE HIGH DENSITY POLYETHYLENE PRESTRESSED CONCRETE CYLINDER PIPE FORCEMAIN
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**LEGEND**

DESCRIPTION	EXISTING	PROPOSED
WATER PIPE	—	—
FIRE HYDRANT	⊕	⊕
VALVE	⊙	⊙
CURB STOP	⊙	⊙
REDUCER	◁	◁
COUPLING OR SLEEDER	X	X
CROSS	⊕	⊕
BEND - 11.25°, 22.5°, 45°, 90°	H H H H	H H H H
TEE	⊕	⊕
VERTICAL BEND	H	H
ANODE	⊕	⊕
REPAIR MARKER	⊕	⊕
PLUG	J	J
SEWER PIPE	—	—
MANHOLE	⊙	⊙
CATCH BASIN	□	□
CURB INLET	▽	▽
JUNCTION	⊕	⊕
E 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.	⊕	⊕
TRAFFIC SIGNALS	⊕	⊕
TRAFFIC LIGHT STANDARD	⊕	⊕
GAS	⊕	⊕
STEAM	⊕	⊕
FIBRE OPTIC	⊕	⊕
FENCE	⊕	⊕
EDGE OF PAVEMENT OR GUTTER	⊕	⊕
EDGE UNPAVED OR GRAVEL ROAD	⊕	⊕
E	⊕	⊕
PROJECTED E	⊕	⊕
LOT LINE	⊕	⊕
SIDEWALK - PATHWAY	⊕	⊕
EASEMENT	⊕	⊕
EDGE OF BUILDING	⊕	⊕
MAILBOX	⊕	⊕
TEST HOLE	⊕	⊕
TREE LINE OR BUSH	⊕	⊕

**PLAN VIEW**

**CONSTRUCTION NOTES**

1. ALL PIPE SHALL HAVE CLASS B - TYPE 2 BEDDING.
2. INSTALL SEWER BY TRENCHLESS METHODS.
3. EXISTING SANITARY SERVICE CONNECTION LOCATIONS AT PROPERTY LINE ARE APPROXIMATE ONLY. CONFIRM THE LOCATION OF ALL SEWER SERVICES.
4. BACKFILL UNDER PAVEMENT, IN SIDEWALKS, & WITHIN 1.0 OF PAVEMENT TO BE CLASS 3.
5. BACKFILL IN BOULEVARD TO BE CLASS 5.
6. INSTALL SEWER SERVICE RISERS TO ELEVATION WHERE MINIMUM SLOPE OF 1% IS MAINTAINED FOR ALL SERVICES.

**HATCH PATTERNS**

AREA OF REPAIR ON PIPE

**ES ENGINEERS  
GEOSCIENTISTS  
MANITOBA**

Certificate of Authorization

KGS Group  
No. 245

52.0  
MEASUREMENT TO REPAIR FROM REFERENCE MH SHOWN THUS...  
0.0  
MH

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 	<p><b>THE CITY OF WINNIPEG</b> WATER AND WASTE DEPARTMENT ENGINEERING DIVISION</p>																						
	<table border="1"> <tr><td>DESIGNED BY</td><td>MID</td><td>CHECKED BY</td><td>JM</td></tr> <tr><td>DRAWN BY</td><td>GEL</td><td>APPROVED BY</td><td>RBO</td></tr> <tr><td>SCALE:</td><td></td><td>RELEASED FOR CONSTRUCTION</td><td></td></tr> <tr><td>HORIZONTAL</td><td></td><td></td><td></td></tr> <tr><td>VERTICAL</td><td></td><td></td><td></td></tr> <tr><td>DATE</td><td>2020 04 06</td><td>DATE</td><td></td></tr> </table>		DESIGNED BY		MID	CHECKED BY	JM	DRAWN BY	GEL	APPROVED BY	RBO	SCALE:		RELEASED FOR CONSTRUCTION		HORIZONTAL				VERTICAL				DATE	2020 04 06	DATE
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