

ABBREVIATIONS

WWS	WASTE WATER SEWER
CS	COMBINED SEWER
LDS	LAND DRAINAGE SEWER
℄	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
FM	FEEDERMAIN
FCM	FORCE MAIN (PRESSURIZED SEWER MAIN)

LEGEND

DESCRIPTION	PLAN VIEW		
	ABANDONED	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	⊕	⊕	⊕
GUY ANCHOR	⊕	⊕	⊕
M.T.S. POLE	⊕	⊕	⊕
PEDESTAL OR BOX	⊕	⊕	⊕
CABINET	⊕	⊕	⊕
M.T.S., SHAW, OR VIDEO	⊕	⊕	⊕
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	⊕	⊕	⊕

DESCRIPTION	PROFILE		
	ABANDONED	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	⊕	⊕	⊕

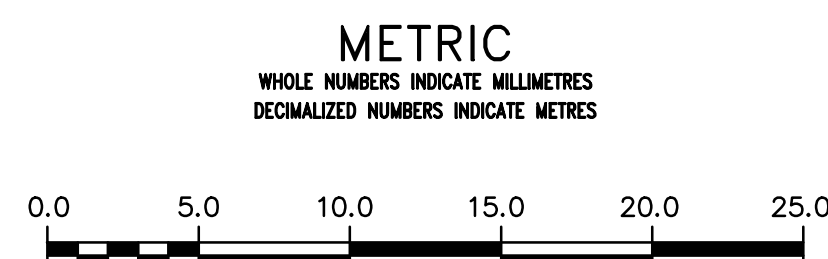
HATCH PATTERNS

	EARTH OR GROUND ABOVE PIPE
	SAND OR OTHER FINE MATERIAL
	CONCRETE
	WASHED STONE OR GRANULAR MATERIAL
	INTERLOCKING STONE
	METAL
	GRAVEL OR STONE

CONSTRUCTION NOTES

1. LOCATION OF SERVICES ON DRAWINGS ARE APPROXIMATE.
2. CONFIRM LOCATION OF ALL WATER AND WASTEWATER SERVICES IN THE FIELD.
3. TYPE 3 INITIAL BACKFILL MATERIAL SHALL BE USED IN PLACE OF SANDS IN SHAFTS.
4. WHERE DIRECTED BY THE CONTRACT ADMINISTRATOR UTILIZE CLASS 1 BACKFILL FOR ALL EXCAVATIONS WITHIN 1.0m OF REGIONAL STREETS (UNIVERSITY CRESCENT).
5. CLASS 2 OR 3 BACKFILL FOR ALL EXCAVATIONS WITHIN 1.0m OF PAVEMENTS

74M574 - Tbl. in W. wall of Conc. parking garage of No. 77 University Cres. E. of Pembina Hwy., 0.9 m N. of S.W. cor. of garage, & 2.6 m below recreation deck.



<p>WARNING</p> <p>IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:</p> <p>1) NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.</p> <p>2) TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.</p> <p>SEE PROVINCIAL REGULATION 210/72 FOR DETAILS</p>	<p>LOCATION APPROVED UNDERGROUND STRUCTURES</p> <p>SUPV. U/G STRUCTURES COMMITTEE DATE</p> <p>NOTE:</p> <p>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.</p>	<p>VERTICAL DATUM: CGVD28 (HT2.0 Geoid) ELEVATION: 234.128</p> <p>HORIZONTAL DATUM: NAD83 (June 1990), Zone 14</p>	<p>AECOM</p> <p>DESIGNED BY DN CHECKED BY MK</p> <p>DRAWN BY GDL APPROVED BY MP</p> <p>SCALE: HORIZONTAL 1:250 VERTICAL 1:50</p> <p>DATE 2024 06 19</p>	<p>ENGINEER'S SEAL</p> <p>PROVINCE OF MANITOBA REGISTERED PROFESSIONAL ENGINEER</p> <p>M.R. PETERS Member 32908</p> <p>CONSULTANT NUMBER CU-01</p>	<p>THE CITY OF WINNIPEG</p> <p>WATER AND WASTE DEPARTMENT ENGINEERING SERVICES DIVISION</p> <p>2024 REGIONAL STREET RENEWAL PROGRAM</p> <p>INDEX PAGE DRAWING INDEX, DESIGN NOTES, LEGEND & ABBREVIATIONS</p>	<p>SHEET 13 OF 21</p> <p>CITY DRAWING NUMBER</p>
		<p>0 ISSUED FOR TENDER 24/06/20 GDL</p> <p>NO. REVISIONS DATE (YYYY/MM/DD) BY</p>				<p>FOR INDEX SEE LD-12970</p>

ENGINEERS GEOSCIENTISTS MANITOBA

Certificate of Authorization
AECOM Canada Ltd.
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