

DRAWING INDEX

SHEET NUMBER	CITY OF WINNIPEG DRAWING NUMBER	DRAWING TITLE
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3	D-14677	DONALD STREET – PORTAGE AVENUE TO NOTRE DAME AVENUE – PORTAGE AVENUE TO STA 1+80
4	D-14678	DONALD STREET – PORTAGE AVENUE TO NOTRE DAME AVENUE – STA 1+80 TO STA 2+90
5	D-14679	DONALD STREET – PORTAGE AVENUE TO NOTRE DAME AVENUE – STA 2+90 TO NOTRE DAME AVENUE
6	D-14680	PRINCESS STREET – NOTRE DAME AVENUE TO McDERMOT AVENUE – NOTRE DAME AVENUE TO STA 1+70
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18	D-14692	H.P. WATER MAIN ABANDONMENTS – ARTHUR STREET, NOTRE DAME AVENUE AND PORTAGE AVENUE (HARGRAVE STREET TO DONALD STREET)
19	D-14693	H.P. WATER MAIN ABANDONMENTS – GARRY STREET AND PORTAGE AVENUE (GARRY STREET TO MAIN STREET)

ABBREVIATIONS

WWS	WASTE WATER SEWER
CS	COMBINED SEWER
LDS	LAND DRAINAGE SEWER
ℙ	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	WATER MAIN
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

LEGEND

DESCRIPTION	EXISTING	PROPOSED
WATER PIPE	—	—
FIRE HYDRANT	⊕	⊕
VALVE	⊗	⊗
CURB STOP	⊕	⊕
REDUCER	⊕	⊕
COUPLING OR SLIDER	X	X
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 ℙ	⊕	⊕
LOT LINE	⊕	⊕
SIDEWALK - PATHWAY	⊕	⊕
EASEMENT	⊕	⊕
EDGE OF BUILDING	⊕	⊕
MAILBOX	⊕	⊕
PARKING METER	⊕	⊕
TEST HOLE	⊕	⊕
TREE LINE OR BUSH	⊕	⊕

PROFILE

DESCRIPTION	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	⊕	⊕

CONSTRUCTION NOTES

- EXPOSE EXISTING WATER MAIN & CONFIRM INVERTS PRIOR TO CONSTRUCTION.
- LOCATION OF ALL SERVICES TO BE CONFIRMED IN THE FIELD.
- ALL MATERIALS SHALL CONFORM TO THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
- REPLACE ALL EXISTING LEAD SERVICES FROM PROPOSED WATER MAIN TO ℙ.
- NOTIFY ALL AFFECTED RESIDENTS AND BUSINESSES 24 HOURS IN ADVANCE OF ANY WATER SHUTDOWNS OR DISRUPTION OF SERVICE.
- INSTALL WATER MAIN BY TRENCHLESS METHODS.
- MINIMUM COVER TO TOP OF PROPOSED WATER MAIN IS 2.5m FROM STREET CENTERLINE.
- INSTALLED ALL HYDRANTS WITH FLANGE ELEVATION 50mm TO 150mm ABOVE FINISHED GRADE.
- BACKFILL UNDER OR WITHIN 1.0m OF PAVEMENTS, (INCLUDING SIDEWALKS) IS CLASS 3 BACKFILL EXCEPT AS NOTED. BACKFILL IN BOULEVARDS IS CLASS 5 BACKFILL.
- SERVICE CONNECTIONS MAY STILL EXIST ON THE 300 & 250 HP CI WM, VERIFY AND RELOCATE IF NECESSARY.

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



LOCATION APPROVED UNDERGROUND STRUCTURES		B.M. ELEV.	
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.			
ISSUED FOR CONSTRUCTION	17/04/27	RBO	
NO.	REVISIONS	DATE	BY

DESIGNED BY: TLE	CHECKED BY: LU
DRAWN BY: GEL	APPROVED BY: RBO
SCALE: HORIZONTAL: --	RELEASED FOR CONSTRUCTION: RBO
VERTICAL: --	DATE: 2017 04 26

THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT ENGINEERING DIVISION		2017 WATER MAIN RENEWALS CONTRACT 8	
INDEX PAGE		SHEET 2 OF 19 CITY DRAWING NUMBER D-14676	
CONSULTANT DRAWING NUMBER 17-0107-008_C01			