

DRAWING INDEX

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LEGEND

| DESCRIPTION | PLAN VIEW | | |
|--------------------------------|-----------|----------|----------|
| | ABANDONED | EXISTING | PROPOSED |
| WATER PIPE | | | |
| FIRE HYDRANT | | | |
| VALVE | | | |
| CURB STOP | | | |
| REDUCER | | | |
| COUPLING OR SLIDER | | | |
| CROSS | | | |
| BEND - 11.25', 22.5', 45', 90' | | | |
| TEE | | | |
| VERTICAL BEND | | | |
| ANGODE | | | |
| 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 VIDEON | | | |
| TRAFFIC SIGNALS | | | |
| TRAFFIC LIGHT STANDARD | | | |
| GAS | | | |
| STEAM | | | |
| FIBRE OPTIC | | | |
| FENCE | | | |
| EDGE OF PAVEMENT OR GUTTER | | | |
| EDGE UNPAVED OR GRAVEL ROAD | | | |
| PROJECTED R | | | |
| LOT LINE | | | |
| SIDEWALK - PATHWAY | | | |
| EASEMENT | | | |
| EDGE OF BUILDING | | | |
| MAILBOX | | | |
| PARKING METER | | | |
| TEST HOLE | | | |
| TREE LINE OR BUSH | | | |

ABBREVIATIONS

| | |
|------------|------------------------------------|
| WWS | WASTE WATER SEWER |
| CS | COMBINED SEWER |
| LDS | LAND DRAINAGE SEWER |
| R | PROPERTY LINE |
| E | 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 |

PROFILE

| 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 - R PIPE | | | |
| GUTTER (NORTH AND WEST) | | | |
| GUTTER (SOUTH AND EAST) | | | |
| DITCH (NORTH AND WEST) | | | |
| DITCH (SOUTH AND EAST) | | | |
| STRUCTURE | | | |
| MANHOLE OR CATCH BASIN | | | |

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 R.
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 |

| | | | | | | |
|--|--|---|--|--|---|---|
| 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. NO. REVISIONS DATE BY | DESIGNED BY MJK CHECKED BY SC DRAWN BY RS APPROVED BY KZ SCALE: HORIZONTAL 1:250 VERTICAL 1:50 DATE 2019 03 26 RELEASED FOR CONSTRUCTION K.ZUREK DATE 2019-03-25 | ENGINEER'S SEAL ORIGINAL SIGNED BY S.R.J. COURNOYER 19/03/25 CONSULTANT DRAWING NUMBER | THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT ENGINEERING DIVISION 2019 WATER MAIN RENEWALS CONTRACT 9 INDEX PAGE | SHEET 2 OF 12 CITY DRAWING NUMBER D-15396 |
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