

DRAWING INDEX

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|--------------|---------------------------------|---|
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| 3 | D-16585 | CLIFTON STREET (1ST BAY S OF RICHARD AVE) |
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| 5 | D-16587 | INGERSOLL STREET |
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| 12 | D-16594 | NOLANA STREET |
| 13 | D-16595 | FOREST PARK DRIVE |
| 14 | D-16596 | FOREST PARK DRIVE |
| 15 | D-16597 | SALTER STREET |

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 |
| EX | EXISTING |
| N | NORTH |
| E | EAST |
| S | SOUTH |
| W | WEST |
| W/ | WITH |
| C/W | CONSTRUCTED WITH |
| CONC | CONCRETE |
| AC | 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 | 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 | | |

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 |
| | | SMALL PAVING STONE |
| | | LARGE PAVING STONE |

CONSTRUCTION NOTES

- EXPOSE EXISTING WATER MAIN & CONFIRM INVERTS PRIOR TO CONSTRUCTION.
- LOCATION OF ALL SERVICES IS TO BE CONFIRMED IN THE FIELD.
- INSTALL WATER MAIN BY TRENCHLESS METHODS.
- TRENCHES AND EXCAVATIONS WITHIN 1.0 METRE OF A PAVED AREA INCLUDING SIDEWALKS SHALL BE CLASS 3 BACKFILLED.
- ALL MATERIALS SHALL CONFORM TO THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
- MINIMUM COVER TO TOP OF WATER MAIN IS 2.4 m.
- REPLACE ALL EXISTING LEAD SERVICES FROM PROPOSED WATER MAIN TO P/L.
- NOTIFY ALL AFFECTED RESIDENTS AND BUSINESSES 24 HOURS IN ADVANCE OF ANY WATER SHUTDOWNS AND/OR DISRUPTION OF SERVICE.

PROFILE

| DESCRIPTION | EXISTING | PROPOSED |
|------------------------|----------|----------|
| WATER PIPE | | |
| HYDRANT TOP | | |
| VALVE | | |
| TEE OR CROSS | | |
| COUPLING OR BEND | | |
| REDUCER | | |
| END OF PIPE | | |
| SEWER PIPE | | |
| UNPAVED GROUND SURFACE | | |
| ROAD | | |
| MANHOLE OR CATCH BASIN | | |



METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES



| 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. | |
| NO. | ISSUED FOR TENDER | 2023.04.05 |
| NO. | REVISIONS | DATE BY |

| | |
|---------------------------|-----------------|
| | |
| DESIGNED BY | RS |
| CHECKED BY | RS |
| DRAWN BY | OS |
| APPROVED BY | RS |
| SCALE: | |
| HORIZONTAL | 1:250 |
| VERTICAL | 1:50 |
| RELEASED FOR CONSTRUCTION | <i>R. Lucky</i> |
| DATE | 2023.04.04 |
| DATE | 2023.02.21 |
| DATE | |

| |
|---------------------------|
| ENGINEER'S SEAL |
| CONSULTANT DRAWING NUMBER |
| G-001 |

| | |
|--|--|
| <p>THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT ENGINEERING DIVISION</p> | |
| <p>2023 WATER MAIN RENEWALS CONTRACT 7</p> | <p>SHEET 2 OF 15 CITY DRAWING NUMBER</p> |
| <p>DRAWING INDEX, DESIGN NOTES, LEGEND, & ABBREVIATIONS</p> | <p>D-16584</p> |