

DRAWING INDEX

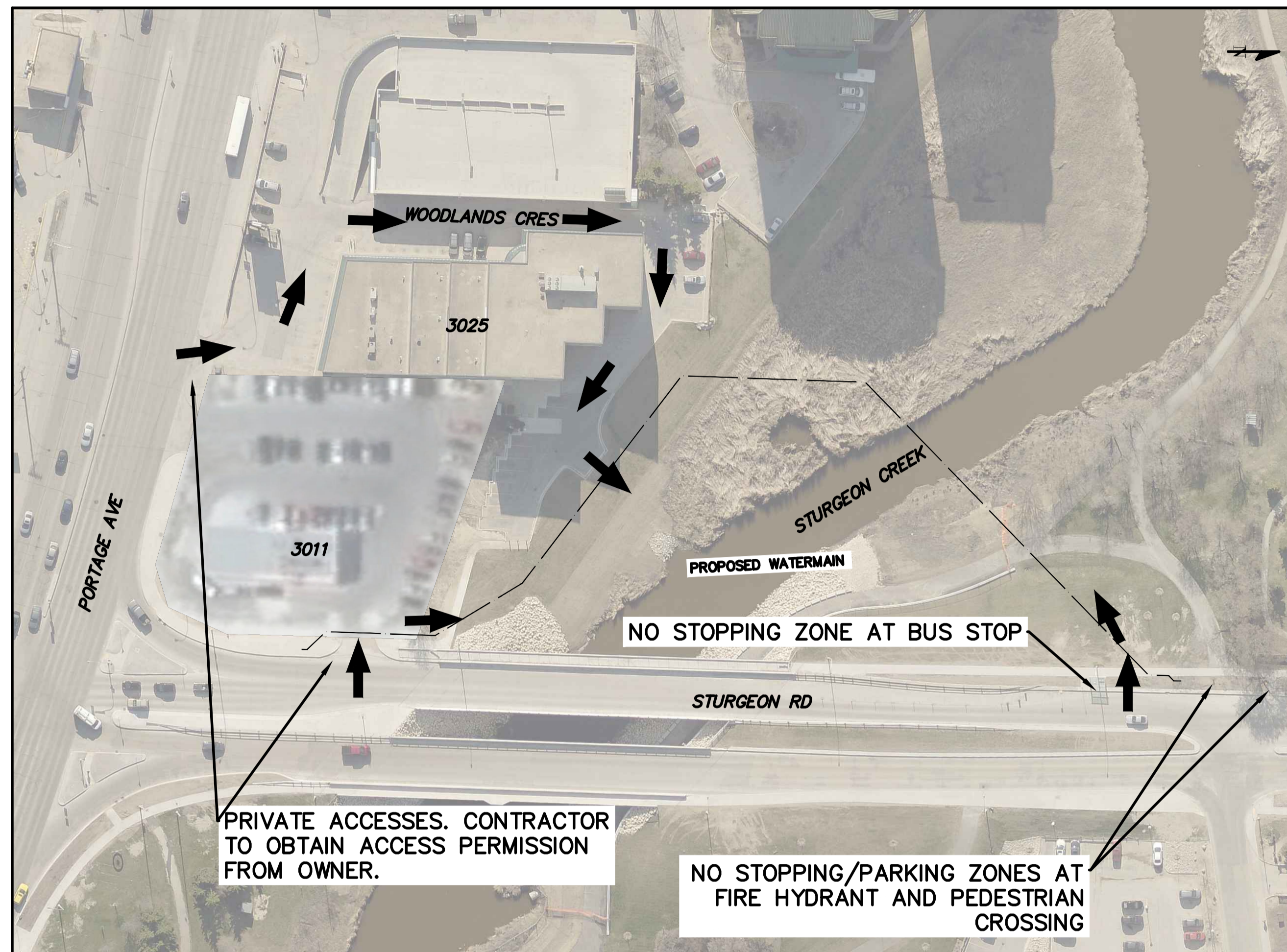
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ABBREVIATIONS

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

LEGEND

| DESCRIPTION | EXISTING | PROPOSED |
|--------------------------------|----------|----------|
| WATER PIPE | — | — |
| FIRE HYDRANT | + | + |
| VALVE | ⊗ | ⊗ |
| CURB STOP | ⊗ | ⊗ |
| REDUCER | △ | △ |
| COUPLING OR SLIDDER | 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 VIDEON | + | + |
| TRAFFIC SIGNALS | + | + |
| TRAFFIC LIGHT STANDARD | + | + |
| GAS | + | + |
| STEAM | + | + |
| FIBRE OPTIC | + | + |
| FENCE | + | + |
| EDGE OF PAVEMENT OR GUTTER | + | + |
| EDGE UNPAVED OR GRAVEL ROAD | + | + |
| PROJECTED ℓ | + | + |
| LOT LINE | + | + |
| SIDEWALK - PATHWAY | + | + |
| EASEMENT | + | + |
| EDGE OF BUILDING | + | + |
| MAILBOX | + | + |
| PARKING METER | + | + |
| TEST HOLE | + | + |
| TREE LINE OR BUSH | + | + |



SITE ACCESS PLAN
SCALE 1/80

CONSTRUCTION NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING SURFACE AND UNDERGROUND STRUCTURES THAT MAY AFFECT THE WORK AND MAY BE DAMAGED DURING CONSTRUCTION.
- ALL EXISTING SURFACE AND UNDERGROUND STRUCTURES MAY NOT BE SHOWN IN THE DRAWINGS.
- EXISTING UTILITY LOCATIONS ARE APPROXIMATE ONLY. THE CONTRACTOR IS RESPONSIBLE TO LOCATE AND CONFIRM THE ELEVATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION
- INSTALL WATERMAIN BY TRENCHLESS METHODS.
- TRENCHES AND EXCAVATIONS WITHIN 1.0m OF A PAVED AREA, INCLUDING SIDEWALKS, SHALL BE CLASS 3 BACKFILL.
- MINIMUM COVER TO TOP OF WATERMAIN SHALL BE 2.4m OR AS INDICATED ON THE DRAWINGS.
- CONTRACTOR TO MAINTAIN AND REPAIR ACCESS TRAIL THROUGHOUT CONSTRUCTION AND RESTORE TRAIL AND ACCESSES TO PRE-CONSTRUCTION CONDITION AT THE COMPLETION OF THE PROJECT.
- CONTRACTOR TO PROVIDE TRAFFIC CONTROL AS REQUIRED WHEN ENTERING OF LEAVING CONSTRUCTION SITE TO AND FROM PORTAGE AVE OR STURGEON ROAD.
- CONTRACTOR TO NOTIFY ALL AFFECTED RESIDENTS AND BUSINESSES 24 HOURS IN ADVANCE OF AND WATER SHUTDOWN OR DISRUPTION OF SERVICE.
- ALL MATERIALS SHALL CONFORM TO THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
- REPLACE ALL EXISTING LEAD SERVICES FROM PROPOSED WATERMAIN TO ℓ.

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 |

PROFILE

| DESCRIPTION | EXISTING | PROPOSED |
|-------------------------------|----------|----------|
| WATER PIPE | — | — |
| HYDRANT TOP | + | + |
| VALVE | ⊗ | ⊗ |
| TEE OR CROSS | ⊥ | ⊥ |
| COUPLING OR BEND | X | X |
| REDUCER | △ | △ |
| END OF PIPE | ⊥ | ⊥ |
| SEWER PIPE | — | — |
| UNPAVED GROUND SURFACE | — | — |
| PAVED GROUND SURFACE - ℓ PIPE | — | — |
| GUTTER (NORTH AND WEST) | — | — |
| GUTTER (SOUTH AND EAST) | — | — |
| ⊕ DITCH (NORTH AND WEST) | — | — |
| ⊕ DITCH (SOUTH AND EAST) | — | — |
| STRUCTURE | — | — |
| MANHOLE OR CATCH BASIN | — | — |

| | | | | | |
|---|--|---|---|--|--|
| <p>LOCATION APPROVED UNDERGROUND STRUCTURES</p> <p>SUPV. U/G STRUCTURES COMMITTEE DATE</p> <p>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.</p> | | <p>B.M. CWBM 39-044 ELEV. 233.848</p> <p>CONSTRUCTION COMPLETION DATE: YYYY MM DD</p> | <p>WSP 1600 BUFFALO PLACE WINNIPEG, MB, R3T 6B8 PHONE: 204-477-6650 FAX: 204-474-2864 WWW.WSPGROUP.COM</p> | <p>ENGINEER'S SEAL</p> <p>DESIGNED BY K.G. CHECKED BY S.M. DRAWN BY K.G. APPROVED BY I.McK.</p> <p>SCALE: HORIZONTAL 1:250 VERTICAL 1:50</p> <p>RELEASED FOR CONSTRUCTION STACY COURNOYER, P. ENG. DATE 2016 02 17</p> | <p>THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT ENGINEERING DIVISION</p> <p>2015 WATER RENEWALS</p> <p>INDEX PAGE</p> <p>CONSULTANT DRAWING NUMBER 151-00351-00-11</p> <p>CITY DRAWING NUMBER D-13410 SHEET 1 OF 5</p> |
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