ABBREVIATIONS LEGEND PROFILE PLAN VIEW WWS WASTE WATER SEWER COMBINED SEWER CS **EXISTING** DESCRIPTION **EXISTING** PROPOSED DESCRIPTION PROPOSED LAND DRAINAGE SEWER LDS WATER PIPE WATER PIPE PROPERTY LINE FIRE HYDRANT CENTER LINE HYDRANT TOP VALVE GEOGRAPHIC INFORMATION SYSTEM G.I.S. CURB STOP B.M. BENCH MARK VALVE REDUCER _ _ _ _ _ _ _ _ _ _ TEST HOLE COUPLING OR SLIDDER _____ ELEVATION TEE OR CROSS ELEV CROSS INVERT INV H H 4 BEND - 11.25', 22.5', 45', 90' COUPLING OR BEND MINIMUM MIN TEE ______ MAX MAXIMUM _____ VERTICAL BEND STREET LIGHTING REDUCER ANODE TRAFFIC SIGNALS TS REPAIR MARKER ABANDONED END OF PIPE ABAND PLUG BLDG BUILDING SEWER PIPE SEWER PIPE _____ HSE HOUSE MANHOLE CRN CORNER UNPAVED GROUND SURFACE CATCH BASIN OPP OPPOSITE CURB INLET **@** PAVEMENT CURB STOP C/S OR S/C PAVED GROUND SURFACE - & PIPE MANITOBA TELEPHONE SYSTEM JUNCTION MTS GUTTER (NORTH AND WEST) RIGHT-OF-WAY R.O.W. ----O----€ DITCH GUTTER (SOUTH AND EAST) WATERMAIN WM & DITCH (NORTH AND WEST) CULVERT ____ CULVERT CULV € DITCH (SOUTH AND EAST) SURVEY BAR MANHOLE MH STRUCTURE SURVEY MONUMENT CATCH BASIN CB CURB INLET TREE - DECIDUOUS CI VERT. VERTICAL MANHOLE OR CATCH BASIN HORIZONTAL TREE - CONIFEROUS HORZ. I.B. IRON BAR HYDRO _____ _____ FIBRE OPTIC FIBRE HYDRO POLE TYPICAL TYP LAMP STANDARD •-• CROSSING X-ING HYDRO POLE W/STREET LIGHTING Н•—• HYD HYDRANT POLE EXIST EXISTING GUY ANCHOR NORTH M.T.S. POLE EAST PEDESTAL OR BOX SOUTH WEST CABINET WITH M.T.S., SHAW, OR VIDEON C/W CONSTRUCTED WITH TRAFFIC SIGNALS CONC CONCRETE TRAFFIC LIGHT STANDARD ASBESTOS CEMENT AC GAS VITRIFIED CLAY VC OR CLAY STEAM CAST IRON CI FIBRE OPTIC DUCTILE IRON **FENCE** PVC POLYVINYL CHLORIDE EDGE OF PAVEMENT OR GUTTER HIGH DENSITY POLYETHYLENE HDPE ______ EDGE UNPAVED OR GRAVEL ROAD _____ PCCP PRESTRESSED CONCRETE CYLINDER PIPE PROJECTED P LOT LINE _____ SIDEWALK - PATHWAY EASEMENT ----EDGE OF BUILDING MAILBOX PARKING METER **HATCH PATTERNS** TEST HOLE TREE LINE OR BUSH DESCRIPTION **EXISTING** PROPOSED EARTH OR GROUND ABOVE PIPE SAND OR OTHER FINE MATERIAL

DRAWING INDEX

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| 2 | D-13517 | ELM PARK ROAD - EDINBURGH STREET TO 110m EAST OF EDINBURGH STREET |
| 3 | D-13518 | ELM PARK ROAD - 110m EAST OF EDINBURGH STREET TO 196m EAST OF EDINBURGH STREET |
| 4 | D-13519 | NEWARK ROAD - COTTONWOOD ROAD TO 90m NORTH OF COTTONWOOD ROAD |
| 5 | D-13520 | NEWARK ROAD - 90m NORTH OF COTTONWOOD ROAD TO WESTMOUNT BAY (NORTH LEG) |
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| 7 | D-13522 | WATT STREET - 40m NORTH OF UNION AVENUE WEST TO HARBISON AVENUE WEST |
| 8 | D-13523 | HARBISON AVENUE WEST - WATT STREET TO 115m EAST OF WATT STREET |
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| 10 | D-13525 | HARBISON AVENUE WEST - 265m EAST OF WATT STREET TO 396m EAST OF WATT STREET |
| 11 | D-13526 | OTTAWA AVENUE - 150m EAST OF BRAZIER STREET TO ROCH STREET |
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| 14 | D-13529 | BRIAR DEL PLACE & CORTON PLACE - WATERMAIN ABANDONMENT AND ASSOCIATED WORKS |
| 15 | D-13530 | RIEL AVENUE - HYDRANT INSTALLATION BETWEEN DARWIN STREET & ROBERTSON CRESCENT |
| | | |

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 2.4m.
- 7. REPLACE ALL EXISTING LEAD SERVICES FROM PROPOSED WATERMAIN TO P.
- 8. NOTIFY ALL AFFECTED RESIDENTS AND BUSINESSES 24 HOURS IN ADVANCE OF ANY WATER SHUTDOWNS OR DISRUPTION OF SERVICE.

| | METR | |
|---------|-----------------|---------------|
| | IVILII | |
| WHOLE | NUMBERS INDICAT | e millimetres |
| DECIMAL | IZED NUMBERS IN | DICATE METRES |

CONCRETE

METAL

INTERLOCKING STONE

GRAVEL OR STONE

WASHED STONE OR GRANULAR MATERIAL

ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST: 1) NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION. 2) TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.

SEE PROVINCIAL REGULATION 210/72 FOR DETAILS

Certificate of Authorization

AECOM Canada Ltd.

No. 4671 Date: 2014/03/19

WARNING

IF POWER EQUIPMENT OR EXPLOSIVES

LOCATION APPROVED UNDERGROUND STRUCTURES SUPV. U/G STRUCTURES 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.

CONSTRUCTION COMPLETION DATE: DESIGNED CHECKED APPROVED DRAWN RELEASED FOR CONSTRUCTION SCALE: GSK HORIZONTAL 14/03/25 VERTICAL ISSUED FOR REVIEW 14/03/19 GSK DATE DATE

ENGINEER'S SEAL 를 FITCHETT March 2014 CONSULTANT DRAWING NUMBER

Winnipeg

THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT ENGINEERING DIVISION

2014 WATERMAIN RENEWALS CONTRACT 2

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