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43	13867	WEATHERDON AVENUE
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46	13870	WICKLOW STREET
47	13871	WILLIAM NEWTON AVENUE
48	13872	WOODGROVE STREET

DRAWING TITLE

DESIGN NOTES, LEGEND, & ABBREVIATIONS

MH AT THAMES AVENUE TO TEE IN MAIN

2ND MH W OF ST MARY'S ROAD TO 3RD MH W OF ST MARY'S ROAD

MH AT ARBUTHNOT STREET TO 1ST MH W OF ARBUTHNOT STREET

1ST MH W OF ARBUTHNOT STREET TO MH AT LILAC STREET

MH AT ALUMNI PLACE (E LEG) TO MH AT ALUMNI PLACE (W LEG)

2ND MH W OF STORMONT DRIVE TO 1ST MH W OF STORMONT DRIVE

MH AT CEDARCREST DRIVE TO MH AT MARK PEARCE AVENUE

1ST MH W OF ST MARY'S ROAD TO TIE-IN AT ST MARY'S ROAD

MH AT W FERNWOOD AVENUE TO NODE N OF W FERNWOOD AVENUE

MH AT ROCH STREET (W P/L) TO 1ST MH W OF ROCH STREET

1ST MH E OF HENDERSON HIGHWAY TO 2ND MH E OF HENDERSON HIGHWAY

MH AT LAXDAL ROAD TO 1ST MH E OF LAXDAL ROAD

1ST MH E OF LAXDAL ROAD TO MH AT MAYFIELD CRESCENT (W P/L)

MH AT HEWITT CRESCENT TO 1ST MH W OF HEWITT CRESCENT

1ST MH W OF HEWITT CRESCENT TO MH AT HANEY STREET

2ND MH E OF LACY STREET TO 1ST MH E OF LACY STREET

1ST MH W OF DUNKIRK DRIVE TO 1ST MH E OF DUNKIRK DRIVE

1ST MH W OF GROVELAND BAY (E LEG) TO MH AT GROVELAND BAY (E LEG)

1ST MH E OF STAFFORD STREET TO 2ND MH E OF STAFFORD STREET

MH AT WENTWORTH STREET TO 1ST MH E OF WENTWORTH STREET

1ST MH E OF WENTWORTH STREET TO MH AT LILAC STREET

1ST MH N OF JUBINVILLE BAY (S LEG) TO MH AT BETOURNAY STREET

MH AT JUBINVILLE BAY (S LEG) TO 1ST MH N OF JUBINVILLE BAY

MH AT REGENT AVENUE E TO MH AT VICTORIA AVENUE E

MH AT YALE AVENUE E TO MH AT RAVELSTON AVENUE E

1ST MH N OF ROSSEAU AVENUE E TO 1ST MH W OF WABASHA STREET

1ST MH S OF ROSSEAU AVENUE E TO 1ST MH NW OF ROSSEAU AVENUE E

1ST MH NW OF ROSSEAU AVENUE E TO 1ST MH E OF WABASHA STREET

1ST MH N OF WESTBOURNE CRESCENT (E OF C/L) TO MH AT WESTBOURNE CRESCENT

1ST MH N OF CHANCELLOR DRIVE TO MH AT CHANCELLOR DRIVE

MH AT MARSHALL CRESCENT (W LEG) TO 1ST MH E OF MARSHALL CRESCENT (W LEG)

1ST MH W OF WOODGROVE STREET TO MH AT WOODGROVE STREET

MH AT CHANCELLOR DRIVE TO 1ST MH N OF CHANCELLOR DRIVE

MH AT AUGUSTA DRIVE TO 1ST MH N OF AUGUSTA DRIVE

2ND MH W OF JUBA STREET TO 3RD MH W OF JUBA STREET

MH AT AVONDALE ROAD TO MH AT REGAL AVENUE

MH AT ST DAVID PLACE (S LEG) TO MH AT ST DAVID ROAD

1ST MH W OF KANATA STREET TO MH AT KANATA STREET

1ST MH E OF MARSHALL CRESCENT (E LEG) TO 1ST MH W OF MARSHALL CRESCENT (E LEG)

1ST MH E OF DONNELLY STREET TO 2ND MH E OF DONNELLY STREET

MH AT STAFFORD STREET (E P/L) TO 1ST MH E OF STAFFORD STREET

MH AT WENTWORTH STREET TO 1ST MH E OF WENTWORTH STREET

1ST MH N OF NORTH DRIVE TO 1ST MH N OF WATERFORD AVENUE

1ST MH N OF DOWKER AVENUE TO MH AT DOWKER AVENUE

MH AT ALLEN STREET TO 1ST MH E OF ALLAN STREET

MH AT OAKENWALD AVENUE TO 1ST MH N OF OAKENWALD AVENUE

HATCH PATTERNS

EXTERNAL POINT REPAIR LOCATION

CONSTRUCTION NOTES

- CONFIRM LOCATIONS OF ALL SEWER SERVICES.
- TRENCHES AND EXCAVATIONS UNDER ROAD PAVEMENT AND/OR WITHIN 0.45m OF A ROAD PAVEMENT EDGE SHALL BE CLASS 1 BACKFILL UNLESS OTHERWISE DIRECTED BY THE ENGINEER. TRENCHES AND EXCAVATIONS UNDER AND/OR WITHIN 1.0m OF ANY OTHER PAVED SURFACE, INCLUDING APPROACHES AND SIDEWALKS, SHALL BE CLASS 3 BACKFILL.
- EXCAVATIONS MORE THAN 1 METRE FROM PAVEMENT TO BE CLASS 5 BACKFILL.
- EXTERNAL POINT REPAIRS:
 - ALL PIPE SHALL HAVE CLASS B BEDDING WITH BEDDING SAND.
 - CONTRACTOR TO CONFIRM EPR EXTENTS VIA PRE-REPAIR INSPECTION PRIOR TO UNDERTAKING EPRs.
- SEE APPENDIX C FOR MINIMUM TRAFFIC REQUIREMENTS TO BE MAINTAINED.



ENGINEERS
GEOSCIENTISTS
MANITOBA

Certificate of Authorization
Stantec Consulting Ltd.

No. 1301

ABBREVIATIONS

	DESCRIPTION
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	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	VITRIFIED CLAY
CI	CAST IRON
DI	DUCTILE IRON
PVC	POLYVINYL CHLORIDE
HDPE	HIGH DENSITY POLYETHYLENE
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE
	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
	℄ 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 ℄
	LOT LINE
	SIDEWALK – PATHWAY
	EASEMENT
	EDGE OF BUILDING
	TEST HOLE
	TREE LINE OR BUSH

LEGEND

EXISTING	PROPOSED

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.

0	ISSUED FOR CONSTRUCTION	26.03.04	NK
NO.	REVISIONS	DATE	BY



Stantec

311 Portage Avenue, Winnipeg, Manitoba
Tel 204-489-5900 Fax 204-453-9012

DESIGNED BY NK

CHECKED BY RS

DRAWN BY MR

APPROVED BY NK

HOR. SCALE: 1:750
VERTICAL:

RELEASED FOR CONSTRUCTION:
S. COURNOYER, P. ENG.

DATE 26.02.13

DATE 26.03.03

ENGINEER'S SEAL



CONSULTANT DRAWING NO.

G-002



THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

2025 SEWER MAIN RENEWALS BY CIPP LINING

CONTRACT 4

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DESIGN NOTES, LEGEND, & ABBREVIATIONS

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