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50	13925	WEST GATE
51	13926	WEST GATE
52	13927	YARWOOD AVENUE

DRAWING INDEX, DESIGN NOTES, LEGEND, & ABBREVIATIONS

1ST MH S OF BANNATYNE AVENUE TO MH AT BANNATYNE AVENUE

MH AT AMBER TRAIL TO 1ST MH E OF AMBER TRAIL

1ST MH W OF PIPELINE ROAD TO MH AT PIPELINE ROAD

MH AT MANDEN CRESCENT TO 1ST MH E OF MANDEN CRESCENT

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

2ND MH S OF SILVER AVENUE TO 3RD MH S OF SILVER AVENUE

MH AT COSTELLO DRIVE TO 1ST MH S OF COSTELLO DRIVE

MH AT PORTAGE AVENUE TO 1ST MH S OF PORTAGE AVENUE

1ST MH S OF ELLICE AVENUE TO 2ND MH S OF ELLICE AVENUE

MH AT SARGENT AVENUE TO OUTFALL IN N DITCH

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

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

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

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

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

MH AT MCDERMOT AVENUE TO TEE AT BANNATYNE AVENUE

MH AT PACIFIC AVENUE (S P/L) TO MH AT PACIFIC AVENUE C/L

MH AT ELGIN AVENUE TO MH AT WILLIAM AVENUE

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

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

1ST MH S OF WESTMINSTER AVENUE TO 2ND MH S OF WESTMINSTER AVENUE

MH AT BLECHNER DRIVE TO 1ST MH E OF MARTELL CRESCENT

1ST MH S OF ADSUM DRIVE TO TIE-IN AT ADSUM DRIVE

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

1ST MH S OF ELLICE AVENUE TO 2ND MH S OF ELLICE AVENUE

MH AT BLECHNER DRIVE TO MH AT MARTELL CRESCENT (W LEG)

1ST MH N OF CARRUTHERS AVENUE TO MH AT MATHESON AVENUE

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

1ST MH S OF WEST GATE TO MH AT WEST GATE

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

1ST MH S OF PORTAGE AVENUE TO 2ND MH S OF PORTAGE AVENUE

1ST MH W OF SHELLY STREET TO MH AT SHELLEY STREET

RIVERBEND LIFT STATION

MH W OF ROUTE 90 TO MH E OF ROUTE 90

1ST MH N OF BROWNING BOULEVARD TO MH AT HAULTAIN CRESCENT (S LEG)

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

1ST CB W OF BURNELL STREET TO TEE AT BURNELL STREET

1ST MH S OF WELLINGTON AVENUE TO MH AT WELLINGTON AVENUE

2ND MH W OF MIDLAND STREET TO 1ST MH W OF MIDLAND STREET

MH AT AMARYNTH CRESCENT TO MH AT ANTOINE AVENUE

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

2ND MH N OF WELLINGTON AVENUE TO MH AT YARWOOD AVENUE

1ST MH S OF CHURCH AVENUE TO 2ND MH S OF CHURCH AVENUE

2ND MH S OF HAMILTON AVENUE (S LEG) TO MH AT NESS AVENUE

1ST MH S OF SILVER AVENUE TO 2ND MH S OF SILVER AVENUE

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

4TH MH W OF MIDDLE GATE TO 5TH MH W OF MIDDLE GATE

2ND MH W OF MIDDLE GATE TO 4TH MH W OF MIDDLE GATE

1ST MH W OF MIDDLE GATE TO 2ND MH W OF MIDDLE GATE

1ST MH W OF LIPTON STREET TO MH AT INGERSOLL STREET

HATCH PATTERNS

EXTERNAL POINT REPAIR LOCATION

CONSTRUCTION NOTES

1. CONFIRM LOCATIONS OF ALL SEWER SERVICES.
2. TRENCHES AND EXCAVATION UNDER OR WITHIN 0.45M OF A ROAD OR APPROACH SHALL BE CLASS 1 BACKFILL UNLESS OTHERWISE DIRECTED BY THE ENGINEER. TRENCHES AND EXCAVATION UNDER OR WITHIN 1.0M OF ANY OTHER PAVED SURFACE, INCLUDING SIDEWALKS, SHALL BE CLASS 3 BACKFILL.
3. EXCAVATIONS MORE THAN 1 METRE FROM PAVEMENT TO BE CLASS 5 BACKFILL
4. EXTERNAL POINT REPAIRS:

- REFER TO CITY OF WINNIPEG STANDARD DETAILS SD-022A AND SD-022B FOR BEDDING REQUIREMENTS.

- CONTRACTOR TO CONFIRM EPR EXTENTS VIA PRE-REPAIR INSPECTION PRIOR TO UNDERTAKING EPRs.
5. SEE APPENDIX C FOR MINIMUM TRAFFIC REQUIREMENTS TO BE MAINTAINED.

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

ENGINEERS
GEOSCIENTISTS
MANITOBA

Certificate of Authorization
Stantec Consulting Ltd.
No. 1301

TENDER NO. 1138-2025

LOCATION APPROVED UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES COMMITTEE

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	26.04.24	NK
NO.	REVISIONS	DATE	BY

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	RELEASED FOR CONSTRUCTION: S. COURNOYER, P.ENG.
VERTICAL:	DATE 26.04.23
DATE 26.04.24	

ENGINEER'S SEAL
CONSULTANT DRAWING NO. G-002

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

2025 SEWER RENEWALS BY CIPP LINING
CONTRACT 5
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DESIGN NOTES, LEGEND, & ABBREVIATIONS

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