

STERLING LYON PARKWAY NORTH MEDIAN CONTROL		
POINT	NORTHING	EASTING
POT=0+350	10492.400	7938.908
PI=0+496.773	10516.806	8083.637
PC=0+571.534	10529.959	8157.232
PT=0+581.297	10531.630	8166.851

STERLING LYON PARKWAY SOUTH MEDIAN CONTROL		
POINT	NORTHING	EASTING
POT=0+350	10492.400	7938.908
PI=0+450.835	10509.167	8038.339
PC=0+570.253	10525.333	8156.657
PT=0+601.357	10530.025	8187.404

SHAFTESBURY BOULEVARD CENTERLINE OF ROAD CONTROL		
POINT	NORTHING	EASTING
POT=0+517.136	10559.145	8335.149
PI=0+561.706	10603.715	8335.259
POT=0+635.591	10677.564	8337.542

CIRCULAR CURVE DATA				
CURVE	LENGTH	RADIUS	DELTA	TANGENT
C1	39.978	1000.000	2°17'26"	19.991
C2	39.978	1000.000	2°17'26"	19.992
C3	17.132	36.000	27°15'58"	8.731
C4	16.701	18.000	53°09'45"	9.006
C5	12.725	115.000	6°20'24"	6.369
C6	12.725	115.000	6°20'24"	6.369
C7	9.763	995.000	0°33'44"	4.882
C8	12.988	75.000	9°55'20"	6.510
C9	31.104	995.000	1°47'28"	15.553
C10	13.718	165.000	4°45'49"	6.863
C11	13.718	165.000	4°45'49"	6.863
C12	39.978	1000.000	2°17'26"	19.992
C13	39.978	1000.000	2°17'26"	19.992
C14	13.718	165.000	4°45'49"	6.863
C15	13.718	165.000	4°45'49"	6.863

STERLING LYON PARKWAY NORTH MEDIAN CONTROL		
POINT	NORTHING	EASTING
TS=0+801.267	10568.206	8383.759
SC=0+868.636	10577.438	8450.468

STERLING LYON PARKWAY SOUTH MEDIAN CONTROL		
POINT	NORTHING	EASTING
TS=0+801.337	10563.278	8384.600
SC=0+863.024	10572.023	8445.649

CIRCULAR CURVE DATA				
CURVE	LENGTH	RADIUS	DELTA	TANGENT
C16	29.555	15.000	112°53'34"	22.617
C17	26.105	15.000	99°42'47"	17.786
C18	20.385	18.000	64°53'10"	11.442
C19	17.132	36.000	27°15'58"	8.731
C20	16.904	15.000	64°34'09"	9.477
C21	15.839	36.000	25°12'32"	8.050
C22	17.952	15.000	68°34'11"	10.227
C23	16.248	36.000	25°51'32"	8.265
C24	20.487	90.000	13°02'32"	10.288
C25	13.028	90.000	8°17'38"	6.525
C26	91.760	385.000	1°39'21"	46.099
C27	13.232	165.000	4°35'41"	6.619
C28	12.742	70.000	10°25'47"	6.389
C29	153.554	380.000	2°30'10"	77.839
C30	179.584	415.000	24°47'37"	91.220
C31	118.381	410.000	16°32'36"	59.605

SPIRAL CURVE DATA				
SPIRAL	LENGTH	THETA	S TANGENT	L TANGENT
S1	68.073	5°01'34"	22.708	45.400
S2	67.368	5°04'44"	22.473	44.931
S3	67.057	5°06'08"	22.369	44.723
S4	61.687	4°15'30"	20.573	41.137
S5	61.314	4°17'03"	20.449	40.888

McCREARY ROAD CENTERLINE OF ROAD CONTROL		
POINT	NORTHING	EASTING
POT=0+430.000	10472.126	8331.975
POT=517.064	10559.146	8334.728



METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

GEODETIC VERTICAL CONTROL POINTS—PROJECT COORDINATES					NAD83 DATUM		
GBM	LOCATION	NORTHING	EASTING	ELEVATION	NORTHING	EASTING	ELEVATION
67-001	S SIDE WILKES AVE E OF McCREARY ROAD	10554.718	8426.237	234.148	5522899.108	627228.196	-
67-002	S SIDE WILKES AVE W OF KENASTON BLVD	10771.437	9669.574	233.951	5523115.778	628471.249	-

NOTE: PROJECT DRAWINGS HAVE AN APPLIED SCALE FACTOR OF 1.000196 APPLIED TO LBIS INFORMATION TO MATCH LOCAL PROJECT COORDINATES.

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. GBM67-001 ELEV. 234.148	DESIGNED BY WRJ	CHECKED BY RJP	DATE 05/04/19
ISSUED FOR CONSTRUCTION	05/04/19	DL	
ISSUED FOR CLIENT REVIEW	05/02/28	DL	
NO. REVISIONS	DATE	BY	DATE

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DESIGNED BY: WRJ
DRAWN BY: DID, CGC
APPROVED BY: RJP
AUTHORIZED BY: R. FINGAS P. ENG.
BRIDGE PROJECTS ENGINEER

HOR. SCALE: 1:500
VERTICAL: N/A
DATE: 05/04/19

ENGINEER'S SEAL
PROVINCE OF MANITOBA
REGISTERED PROFESSIONAL ENGINEER
BRUCE W. BIGLOW
05-04-13

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

Winnipeg

KENASTON UNDERPASS PROJECT
STERLING LYON PARKWAY WEST OF
KENASTON BOULEVARD

HORIZONTAL GEOMETRY
STA. 0+350 TO STA. 0+950

BID OPPORTUNITY
No. 84-2005

Certificate of Authorization
UMA Engineering Ltd.
No. 256 Expiry: April 30, 2005

SHEET 3 OF 61
CAD FILE DRAWING NUMBER 01-CT1001_RX
CITY DRAWING NUMBER P-3258-63