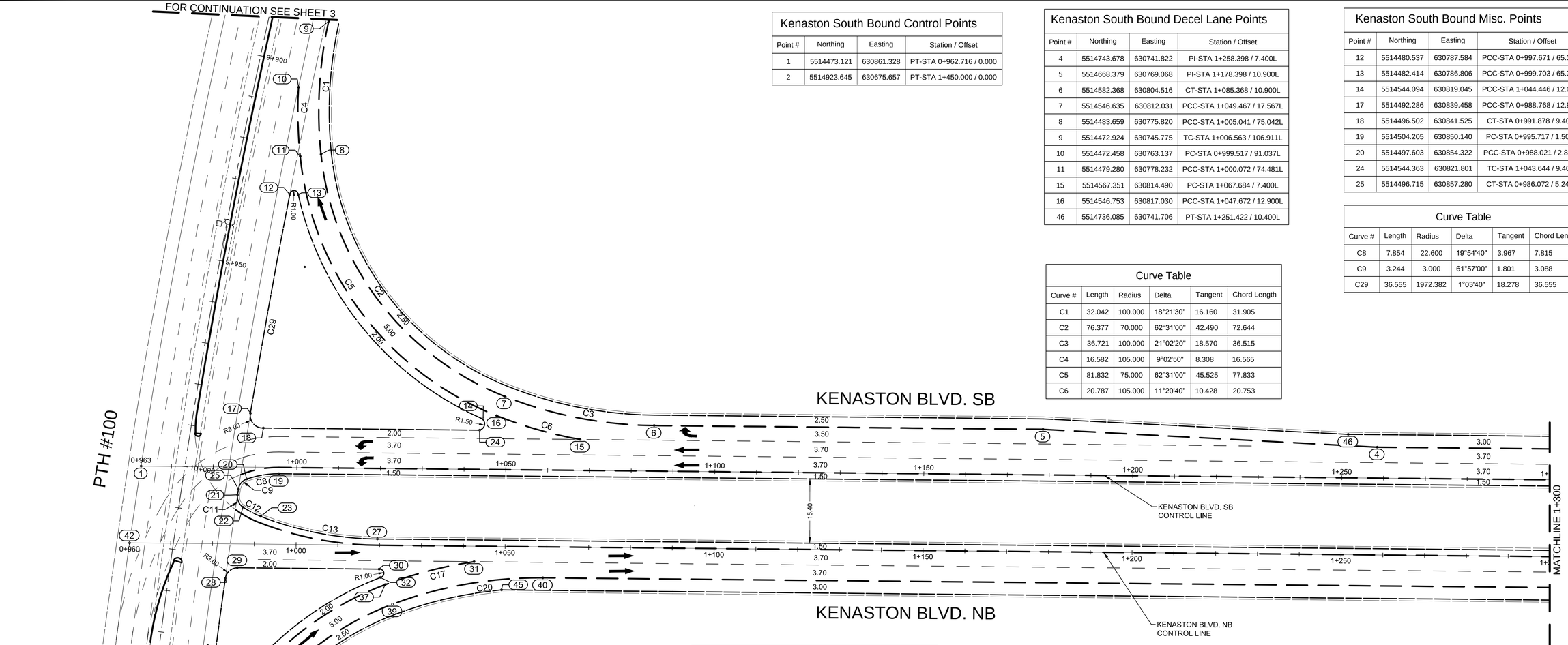


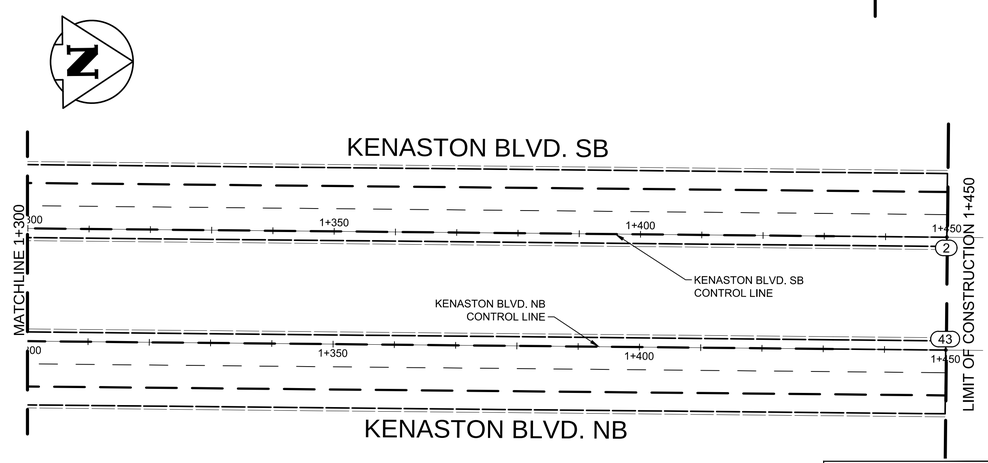
Kenaston South Bound Control Points			
Point #	Northing	Easting	Station / Offset
1	5514473.121	630861.328	PT-STA 0+962.716 / 0.000
2	5514923.645	630675.657	PT-STA 1+450.000 / 0.000

Kenaston South Bound Decel Lane Points			
Point #	Northing	Easting	Station / Offset
4	5514743.678	630741.822	PI-STA 1+258.398 / 7.400L
5	5514668.379	630769.068	PI-STA 1+178.398 / 10.900L
6	5514582.368	630804.516	CT-STA 1+085.368 / 10.900L
7	5514546.635	630812.031	PCC-STA 1+049.467 / 17.567L
8	5514483.659	630775.820	PCC-STA 1+005.041 / 75.042L
9	5514472.924	630745.775	TC-STA 1+006.563 / 106.911L
10	5514472.458	630763.137	PC-STA 0+999.517 / 91.037L
11	5514479.280	630778.232	PCC-STA 1+000.072 / 74.481L
15	5514567.351	630814.490	PC-STA 1+067.684 / 7.400L
16	5514546.753	630817.030	PCC-STA 1+047.672 / 12.900L
46	5514736.085	630741.706	PT-STA 1+251.422 / 10.400L

Kenaston South Bound Misc. Points			
Point #	Northing	Easting	Station / Offset
12	5514480.537	630787.584	PCC-STA 0+997.671 / 65.355L
13	5514482.414	630786.806	PCC-STA 0+999.703 / 65.359L
14	5514544.094	630819.045	PCC-STA 1+044.446 / 12.050L
17	5514492.286	630839.458	PCC-STA 0+988.768 / 12.917L
18	5514496.502	630841.525	CT-STA 0+991.878 / 9.400L
19	5514504.205	630850.140	PC-STA 0+995.717 / 1.500R
20	5514497.603	630854.322	PCC-STA 0+988.021 / 2.851R
24	5514544.363	630821.801	TC-STA 1+043.644 / 9.400L
25	5514496.715	630857.280	CT-STA 0+986.072 / 5.247R

Curve Table					
Curve #	Length	Radius	Delta	Tangent	Chord Length
C8	7.854	22.600	19°54'40"	3.967	7.815
C9	3.244	3.000	61°57'00"	1.801	3.088
C29	36.555	1972.382	1°03'40"	18.278	36.555

Curve Table					
Curve #	Length	Radius	Delta	Tangent	Chord Length
C1	32.042	100.000	18°21'30"	16.160	31.905
C2	76.377	70.000	62°31'00"	42.490	72.644
C3	36.721	100.000	21°02'20"	18.570	36.515
C4	16.582	105.000	9°02'50"	8.308	16.565
C5	81.832	75.000	62°31'00"	45.525	77.833
C6	20.787	105.000	11°20'40"	10.428	20.753



Kenaston North Bound Misc. Points			
Point #	Northing	Easting	Station / Offset
21	5514497.063	630858.648	TC-STA 0+985.873 / 11.755L
22	5514499.413	630860.854	PCC-STA 0+987.205 / 8.820L
23	5514504.203	630861.238	PCC-STA 0+991.487 / 6.640L
27	5514531.993	630855.345	PC-STA 1+019.426 / 1.500L
28	5514502.170	630878.188	PCC-STA 0+983.149 / 8.257R
29	5514503.818	630874.744	CT-STA 0+985.985 / 5.700R
30	5514535.192	630861.810	TC-STA 1+019.921 / 5.700R
32	5514536.259	630863.536	PCC-STA 1+020.246 / 7.700R
33	5514510.528	630908.345	PCC-STA 0+979.386 / 39.323R
34	5514513.333	630908.054	PCC-STA 0+982.090 / 40.123R

Kenaston North Bound Control Points			
Point #	Northing	Easting	Station / Offset
42	5514477.766	630879.315	PT-STA 0+960.157 / 0.000
43	5514930.656	630692.669	PT-STA 1+450.000 / 0.000

Kenaston North Bound Accel Lane Points			
Point #	Northing	Easting	Station / Offset
31	5514555.417	630851.315	PC-STA 1+042.618 / 3.700R
35	5514515.539	630936.038	PC-STA 0+973.467 / 66.836R
36	5514514.691	630914.254	PCC-STA 0+980.983 / 46.372R
37	5514537.965	630864.673	PCC-STA 1+021.394 / 9.400R
38	5514519.680	630914.579	PCC-STA 0+985.472 / 48.574R
39	5514541.403	630868.303	PCC-STA 1+023.189 / 14.067R
40	5514572.056	630848.460	CT-STA 1+059.000 / 7.400R
44	5514524.096	630951.152	TC-STA 0+975.619 / 84.070R
45	5514564.081	630854.991	PT-STA 1+049.228 / 10.400R

Curve Table					
Curve #	Length	Radius	Delta	Tangent	Chord Length
C11	3.402	3.000	64°58'50"	1.911	3.223
C12	4.814	22.500	12°15'30"	2.416	4.805
C13	28.566	78.500	20°51'00"	14.443	28.408
C27	30.867	1681.180	1°03'10"	15.434	30.867

Curve Table					
Curve #	Length	Radius	Delta	Tangent	Chord Length
C15	21.840	105.000	11°55'00"	10.960	21.801
C16	56.068	75.000	42°50'00"	29.417	54.772
C17	22.017	105.000	12°00'50"	11.049	21.977
C18	37.050	100.000	21°13'40"	18.740	36.838
C19	52.331	70.000	42°50'00"	27.456	51.120
C20	36.721	100.000	21°02'20"	18.570	36.515

Certificate of Authorization
Stantec Consulting Ltd.
No. 1301

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

V:\113705751\active\113705751\drawing\404_working\sheet_files_perimeter\05751-c-105-xxx.dwg

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.

NO.	REVISIONS	DATE	BY
0	ISSUED FOR TENDER	14/04/17	S.B.C.

DESIGNED BY	S.B.C.
DRAWN BY	T.G. / P.A.
CHECKED BY	S.B.C. / R.K.H.
APPROVED BY	S.B.C.
HOR. SCALE	1:500
VERTICAL	N/A
DATE	2014/04/17

DESIGN TEAM
Stantec

RELEASED FOR CONSTRUCTION
DATE

ENGINEER'S SEAL

CONSULTANT PROJECT NUMBER
113705751

Winnipeg
THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT

WWARP PART 3 - CONTRACT 4
KENASTON / WAVERLEY

KENASTON BOULEVARD & WAVERLEY TO PERIMETER
HORIZONTAL CONTROL GEOMENTRY
KENASTON

CITY DRAWING NUMBER
P-3355-2

SHEET 2 OF 20

CONSULTANT DRAWING NUMBER
C-101