



CONTROL LINE GEOMETRY - ALIGNMENT A									
CONTROL POINT	STATION	COORDINATES		CURVE #	RADIUS	DELTA	CURVE TABLE ALIGNMENTS		
		NORTHING	EASTING				Tc	L	LC
P.I.	0+971.353	5527153.046	636367.054	C2	8	50°57'22"	3.812	7.115	6.883
T.C.	0+986.110	5527165.808	636361.445	C3	4	9°33'01"	0.334	0.667	0.666
C.T.	0+986.988	5527167.084	636360.312	C4	2	38°12'07"	0.693	1.334	1.309
T.C.	0+990.227	5527169.124	636357.797						
C.T.	0+997.341	5527175.337	636354.836						
T.C.	1+006.030	5527184.026	636354.836						
C.T.	1+006.696	5527184.689	636354.892						
T.C.	1+012.582	5527190.493	636355.868						
C.T.	1+013.916	5527191.784	636355.651						
P.I.	1+046.508	5527220.386	636340.024						

CONTROL LINE GEOMETRY - ALIGNMENT B									
CONTROL POINT	STATION	COORDINATES		CURVE #	RADIUS	DELTA	CURVE TABLE ALIGNMENTS		
		NORTHING	EASTING				Tc	L	LC
P.I.	2+006.029	5527184.026	636352.836	C5	5	58°13'02"	2.784	5.080	4.865
T.C.	2+009.663	5527187.660	636352.836	C7	8	10°26'11"	0.764	1.525	1.522
P.O.C.	2+014.744	5527191.910	636350.470						
P.O.C.	2+024.251	5527195.582	636341.742						
C.T.	2+025.776	5527195.810	636340.236						
P.I.	2+026.115	5527195.830	636339.897						

CONTROL LINE GEOMETRY - ALIGNMENT C									
CONTROL POINT	STATION	COORDINATES		CURVE #	RADIUS	DELTA	CURVE TABLE ALIGNMENTS		
		NORTHING	EASTING				Tc	L	LC
P.I.	3+971.231	5527140.956	636334.463	C8	5	5°28'05"	0.239	0.477	0.477
T.C.	3+982.898	5527156.133	636349.910						
C.T.	3+983.363	5527156.483	636350.234						
P.I.	4+007.947	5527167.649	636359.616						

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES

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B.M. 654357 ELEV. 231.595	NORTHING: 5527224.350 EASTING: 636672.896	DESIGNED BY: MRD	DRAWN BY: PMW	CHECKED BY: SSR	APPROVED BY: MRD	HOR. SCALE: 1:100	VERTICAL: -	ISSUED FOR TENDER: 06/13/14	MRD
NO. REVISIONS		DATE	BY	DATE	06/13/14	RELEASED FOR CONSTRUCTION		DATE	

**THE CITY OF WINNIPEG**  
PUBLIC WORKS DEPARTMENT

2014 BRIDGE MAINTENANCE PROGRAM  
DUGALD DRAIN CULVERT REPLACEMENT AT  
HAPPYLAND PARK

CITY DRAWING NUMBER: C342-14-02  
SHEET 02 OF 05  
HORIZONTAL GEOMETRY  
HORIZONTAL GEOMETRY  
HORIZONTAL GEOMETRY

BID OPPORTUNITY No. 528-2014