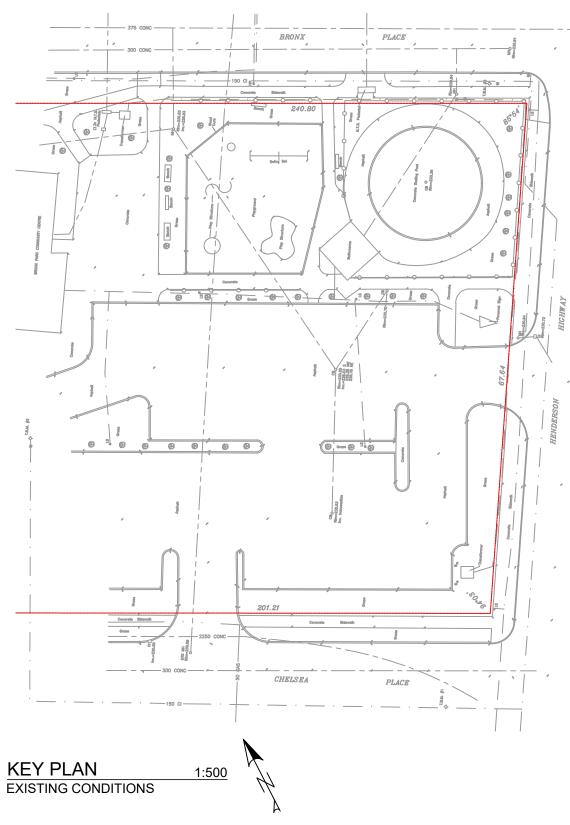
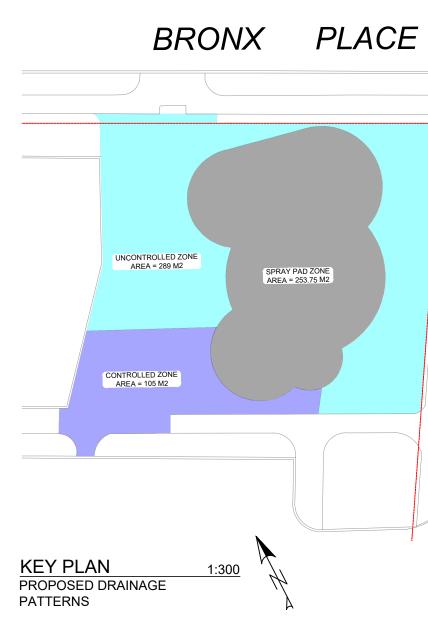


This is not a legal plan.	EXISTING	i I	PROPOSED	EXISTING		PROPOSED	EXISTING		PROPOSED	APPROVING AUTHORITY STAMP	B.M. TOP					
Contours shown are approximated for reference only. Whole numbers are millimetres (mm).	1.98	SLOPE DIRECTION	2.98%	-\$-	HYDRANT	+		CONTOUR			ELEV. 231.	1.650			an	
Decimal numbers are metres (m).	(394.98)	SURFACE ELEV.	239.45	O^	CURB STOP	● A A A A A A A A A A A A A A A A A A A	F	PONDING AREA	·						SIGN & CO	
Convert Metric to Standard 1.0m = 3.2808ft This plan is prepared only for the Client and may not be used by any other party without written consent.	150 WM	WATERMAIN		\otimes	VALVE	8	ELEC	ELEC	ELEC							CHECKED
	250 WWS	WASTEWATER SEWER	250 WWS		WWS MANHOLE		GAS	GAS	GAS					BY	KP	BY
	300 LDS	LAND DRAINAGE SEWER	300 LDS	\bigcirc	LDS CATCHBASIN		сомм СС	OMMUNICATION	JS COMM					DRAWN BY	KP	APPROVEI BY
					LDS MANHOLE		×229.54 TOF	PO SURVEY POI	INT		2 511		2024-02-02 KP	HOR. SCALE:	AS SHOWN	RELEASED
												BMITTED FOR APPROVAL	2023-12-20 KP	VERTICAL:		CONSTRUC
											NO. REVI	ISIONS	YYYY.MM.DD. BY	DATE 2024-	-02-02	DATE





	Area Takeoff - Pre Developr						
Catchment	m2	acre	Ċ				
C1: Asphalt & Concrete	86	0.02	0.90				
C1: Roof	31	0.01	0.95				
C1: Gravel	0	0.00	0.50				
C1: Landscaping	36	0.01	0.15				
UNC: Asphalt & Concrete	342	0.08	0.90				
UNC: Roof	0	0.00	0.95				
UNC: Gravel	0	0.00	0.90				
UNC: Landscaping	153	0.04	0.15				
Summary			Weighted				
Catchment 1	152	0.04	0.73				
Uncontrolled	495	0.12	0.67				
Subtotal	647	0.2					

sbxconsulting.ca Email. dave@sbxconsulting.ca Tel. 204.823.1738

Construction Specifications

- 1. Construction must conform to the City of Winnipeg, Standard Construction Specifications and all references contained herein refer to these specifications. "SD" refers to City of Winnipeg standard details.
- 2. All materials used for construction must conform to City of Winnipeg, *Approved Products* for Undergound Use Within the City of Winnipeg except as indicated otherwise.

3. Water Service to CW-2110

- 3.1. All water services to by saddle connection installed according to CW2110, SD-012. 3.2. Copper water service shall be in accordance with AWWA C800 and ASTM BB88M,
- Type K, seamless water tubing. 3.3. Use Class 'B' Bedding where required according to SD-001.
- 3.4. For backfilling, refer to SD-002 as follows:
- 3.4.1. Class '5' Backfill in landscaped & untraveled areas
- 3.4.2. Class '2' Backfill in gravel, hard-surfaced & traveled areas

4. Gravity Sewers to CW-2030

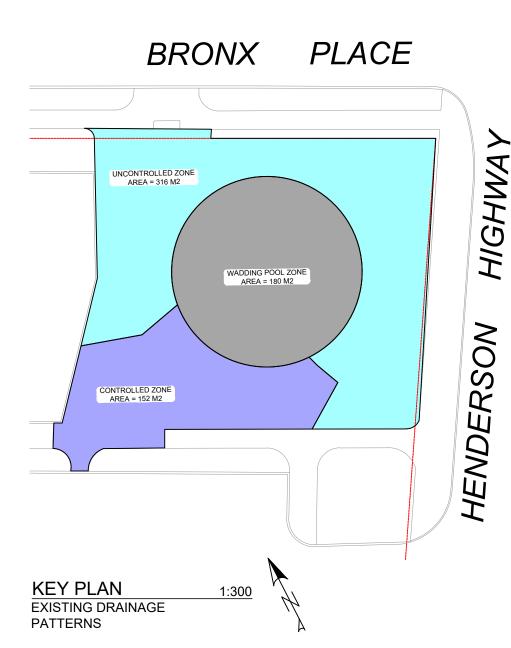
- 4.1. All WWS service installation shall be in accordance with CW 2030/2130, SD-014 4.2. 150mm WWS service pipe shall be in accordance with CAN/CSA B182.2 and ASTM
- D3034, SDR-35.
- 4.3. All pipe installations through road right of way shall be completed with trenchless methods. Any open trench construction on site shall be as follows:
- 4.3.1. Class 'B' Bedding to SD-001
- 4.3.2. Backfill to SD-002: Class '2' in gravel, hard-surfaces, and traveled areas; Class '5' in landscaped and untraveled areas.
- 5. To CW2030/2130, Detail SD-014

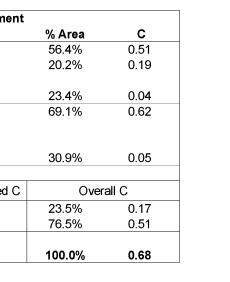
6. Wastewater Flow Generation:

6.1. Spray equipment is design-build by other. Spray features to be sequenced to provide max flow rate of 40-60 US GPM.

7. General Notes

- 7.1. "HP" means high point.
- 7.2. Contractor to obtain all necessary permits.
- 7.3. Contractor to obtain clearances from all utilities before excavating. Confirm all existing infrastructure information in field before construction. Notify the Engineer immediately of any discrepancies that affect installation or design.
- 7.4. Confirm all dimensions before beginning construction.
- 7.5. Spray pad internal grading by Landscape Architect. 7.6. This is a combined sewer district.
- 7.7. Civil design to be read in coordination with architectural, structural, building plans, and geotechnical report where appropriate. Contractor is responsible to report any discrepancies to the Engineer or Project Manager.
- 7.8. It is the understanding of the engineer that the Bronx Spray Pad will not be subject to additional stormwater management measures, on the condition that the site C-value is not increased, and uncontrolled area is not increase. Based on the analysis on the pre and post surface conditions, these conditions are met.





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HENDERSON

	Area Tal	keoff - Post De	evelopment		
Catchment	m2	acre	C	% Area	С
C1: Asphalt & Concrete	52	0.01	0.90	49.9%	0.45
C1: Roof	0	0.00	0.95		
C1: Gravel	0	0.00	0.50		
C1: Landscaping *	52	0.01	0.15	50.1%	0.08
UNC: Asphalt & Concrete	358	0.09	0.90	66.0%	0.59
UNC: Roof	0	0.00	0.95		
UNC: Gravel	0	0.00	0.90		
UNC: Landscaping	185	0.05	0.15	34.0%	0.05
Summary			Weighted C	Overall C	
Catchment 1	105	0.03	0.52	16.2%	0.08
Uncontrolled	543	0.13	0.64	83.8%	0.54
Subtotal	647	0.2		100.0%	0.63

Certificate of Authorization 7076798 Manitoba Inc. o/a Sandbox Design & Consulting No. 7281





CONSULTANT DRAWING N0. C1

DEAN SPEARMAN

LOT GRADING PLAN BRONX PARK SPRAY PAD 720 HENDERSON HIGHWAY, WINNIPEG, MB

