

### **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.
- 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. Minimum 2.4m burial.
- 3.5. For backfilling, refer to SD-002 as follows:
- 3.5.1. Class '5' Backfill in landscaped & untraveled areas
- 3.5.2. Class '2' Backfill in gravel, hard-surfaced & traveled areas

#### 4. Gravity Sewers to CW-2030

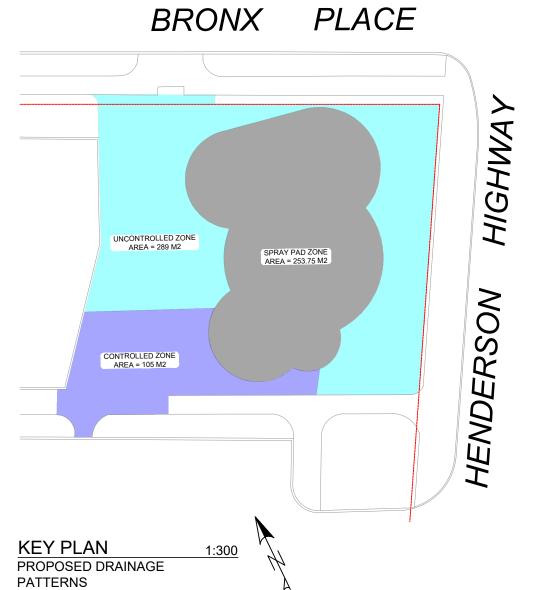
- 4.1. All WWS service installation shall be in accordance with CW 2030/2130, SD-014 4.2. 150mm WWS service pipe shall be in accordance with CAN/CSA B182.2 and ASTM
- D3034, SDR-35.
- 4.3. All pipe installations through road right of way shall be completed with trenchless methods. Any open trench construction 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.

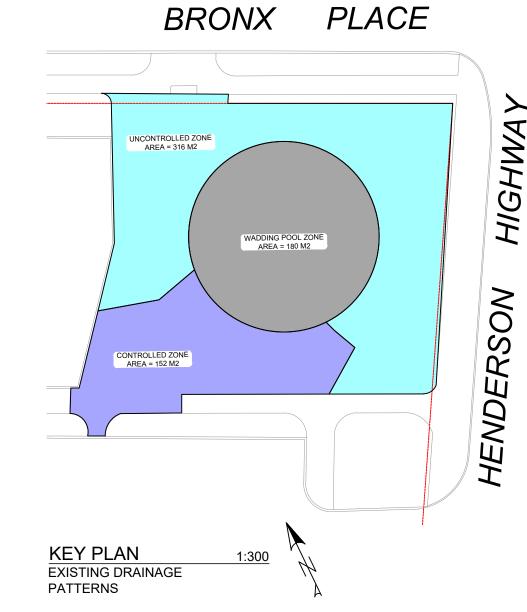
#### 5. Wastewater Flow Generation:

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

# 6. General Notes

- 6.1. "HP" means high point.
- 6.2. Contractor to obtain all necessary permits.
- 6.3. 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. 6.4. Confirm all dimensions before beginning construction.
- 6.5. Spray pad internal grading by Landscape Architect.
- This is a combined sewer district.
- 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.
- 6.8. 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 of the pre and post surface conditions, these conditions are met.





Area Takeoff - Pre Development								
Catchment	m2	acre	С	% Area	С			
C1: Asphalt & Concrete	86	0.02	0.90	56.4%	0.51			
C1: Roof	31	0.01	0.95	20.2%	0.19			
C1: Gravel	0	0.00	0.50					
C1: Landscaping	36	0.01	0.15	23.4%	0.04			
UNC: Asphalt & Concrete	342	0.08	0.90	69.1%	0.62			
UNC: Roof	0	0.00	0.95					
UNC: Gravel	0	0.00	0.90					
UNC: Landscaping	153	0.04	0.15	30.9%	0.05			
Summary			Weighted C	Over	all C			
Catchment 1	152	0.04	0.73	23.5%	0.17			
Uncontrolled	495	0.12	0.67	76.5%	0.51			
Subtotal	647	0.2		100.0%	0.68			

Area Takeoff - Post Development								
Catchment	m2	acre	С	% 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
* Landscaping includes	artificial turf, cons	sidered to have si	milar runoff cha	racteristics to	grass.

This is not a legal plan.	EXISTING	i	PROPOSED	EXISTING	3	PROPOSED	EXISTING		PROPOSED	APPROVING AUTHORITY STAMP			P OF FH				A			ENGI
Contours shown are approximated for reference only.	1.98	SLOPE DIRECTION	2.98%		HYDRANT	+		CONTOUR			ELE	EV. 231	1.650				211/		OV	
Whole numbers are millimetres (mm).			-	->		T														
Decimal numbers are metres (m).	(394.98)	SURFACE ELEV.	239.45	O	CURB STOP	•	F	PONDING AREA								DES	SIGN & CO	NISILLTIN	G	
Convert Metric to Standard 1.0m = 3.2808ft	150 WM	WATERMAIN		$\otimes$	VALVE	<b>⊗</b>	ELEC	ELEC	ELEC							DLJ	1011 & 00	MOCLIII	0_/	
This plan is prepared only for the Client and may not be used by any other party without written																DESIGNED	ΚÞ	CHECKED	DH	
consent.	250 WWS	WASTEWATER SEWER	250 WWS		WWS MANHOLE		——— GAS ———	GAS	—— GAS ——							BY	101	BY	DIT	
	300 LDS	LAND DRAINAGE SEWER	R 300 LDS		LDS CATCHBASIN		— сомм — со	OMMUNICATIONS	СОММ —							DRAWN BY	KP	APPROVED BY	DH	
					LDS MANHOLE		-09.5 <sup>h</sup> TOE	PO SURVEY POINT			3	ADE	DENDUM 1	2024-03-01						
					EDS WANTOLL		×2101	- O SORVETT OINT			2	SUN	MBITTED FOR TENDER	2024-02-02	KP	HOR. SCALE:	AS SHOWN	RELEASED FOR CONSTRUCTION	R M·	
											1	SUE	BMITTED FOR APPROVAL	2023-12-20	KP	VERTICAL:		CONSTRUCTIO	/I <b>V.</b>	CON
											NO.	. REV	/ISIONS	YYYY.MM.DD.	BY	DATE 2024-	-03-01	DATE		

ENGINEER'S SEAL	
CONSULTANT DRAWING N0.	
C1	

				_
DEAN SPEARMAN				
LOT OBABINO BLAN	SHEET	OF		
LOT GRADING PLAN		1	1	
BRONX PARK SPRAY PAD	CAD FIL	E DRAWIN	IG NUMBER	
DIONALARICOLINALIAD		23002-	C-R3	
20 HENDERSON HIGHWAY, WINNIPEG, MB	PROJEC	T CODE		

720 HENDERSON HIGHWAY, WINNIPEG, MB

23-002

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

