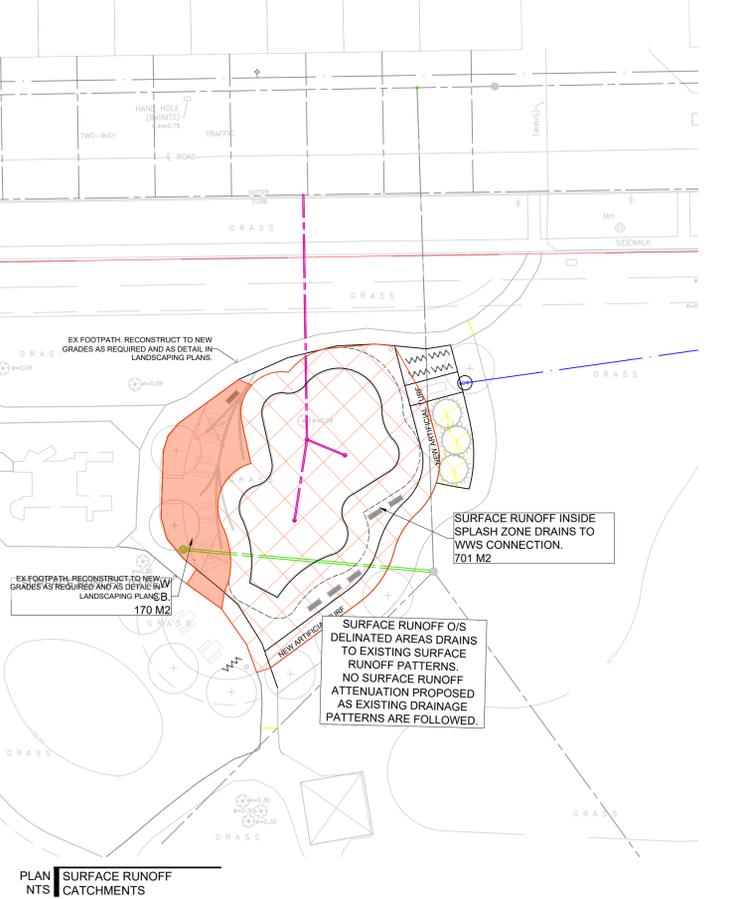


PLAN 1:200 SERVICING & GRADING

PLAN 1:200 SERVICING & GRADING

- Construction Specifications**
- 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 Underground Use Within the City of Winnipeg except as indicated otherwise.
- Water Service to CW-2110**
- All water services to be saddle connection installed according to CW2110, SD-012.
  - Copper water service shall be in accordance with AWWA C800 and ASTM B888, Type K, seamless water tubing.
  - Use Class 'B' Bedding where required according to SD-001.
  - For backfilling, refer to SD-002 as follows:
    - Class 'S' Backfill in landscaped & untraveled areas
    - Class '2' Backfill in gravel, hard-surfaced & traveled areas
- Gravity Sewers to CW-2030**
- All WWS service installation shall be in accordance with CW 2030/2130, SD-014
  - 150mm WWS service pipe shall be in accordance with CAN/CSA B182.2 and ASTM D3034, SDR-35.
  - Drain tile to be single-wall perforated pipe with sock, ADS 06730020BS or approved equal.
  - Catchpits to be Nyoplast, Light Duty Inline Drain, no sump and complete with 12" drop-in grate or approved equal.
- Wastewater Flow Generation:**
- Spray equipment is design-build by other. Spray features to be sequenced to provide max flow rate of 40-60 US GPM.
- General Notes**
- Contractor to obtain all necessary permits.
  - 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.
  - Confirm all dimensions before beginning construction.
  - Consult Geotechnical Report (if available) or geotechnical engineer to confirm the suitability of native soils for backfill.
  - Grading by Landscape Architect.
  - Existing topographic by Landscape Architect. Refer to Landscape Architect for topographic information.



PLAN SURFACE RUNOFF NTS CATCHMENTS

**NOTE:**

- Outdoor spray features shall be equipped with rain sensing devices as not to allow additional flows into the Wastewater Sewer System during rainfall events. Supplier to provide product specifications.
- Supplier to provide DWG outline of spray patterns for incorporation into Civil plan.
- Supplier to provide estimated flow generated by spray features.

**LAND DRAINAGE NOTE:**  
PROPOSED DEVELOPMENT REDUCES OVERALL CONTRIBUTING AREA TO LAND DRAINAGE SEWER.

**SURFACE RUNOFF INSIDE SPLASH ZONE DRAINS TO WWS CONNECTION.**  
701 M2

**SURFACE RUNOFF O/S DELIMITED AREAS DRAINS TO EXISTING SURFACE RUNOFF PATTERNS.**  
NO SURFACE RUNOFF ATTENUATION PROPOSED AS EXISTING DRAINAGE PATTERNS ARE FOLLOWED.

| Existing  | Proposed | Existing   | Proposed   | Existing          | Proposed          |
|-----------|----------|------------|------------|-------------------|-------------------|
| EG -0.88% | 2.98%    | Hydrant    | Hydrant    | Contour           | Contour           |
| (394.98)  | (239.45) | Curb Step  | Curb Step  | Ponding Area      | Ponding Area      |
| 150 WWS   | 150 WWS  | Valve      | Valve      |                   |                   |
| 250 WWS   | 250 WWS  | Manhole    | Manhole    |                   |                   |
| 300 LDS   | 300 LDS  | Catchbasin | Catchbasin | Topo Survey Point | Topo Survey Point |

This is not a legal plan.  
Contours shown are approximated for reference only.  
Whole numbers are millimetre (mm)  
Decimal numbers are metres (m)  
Convent Metric to Standard 10m = 3.2808  
This plan is prepared only for the Client and may not be used by any other party without written consent.



**ENGINEERS**  
DESIGNERS  
PLANNERS  
CERTIFICATE OF AUTHORIZATION  
707696 Manitoba Inc.  
via Sandbox Design & Consulting  
No. 7281

R2 28 SEP 22  
REV PER WWD COMMENTS  
R1 7 SEP 22  
ISSUED FOR APPROVAL  
R0 22 JUL 22  
PRELIMINARY

Designed: DH  
Drawn: DH  
Approved: DH

project code  
**22-069**  
sheet title  
**SERVICING AS SHOWN**  
scale  
**C1**

434 ADSUM DRIVE, WINNIPEG  
PREPARED FOR: MCGOWAN RUSSELL  
MAPLES CC SPLASH PARK

**C1**