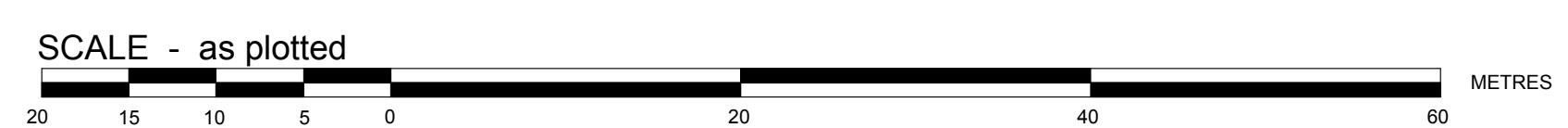


1  
1.2  
NEW GRADING PLAN  
Scale: 1:400

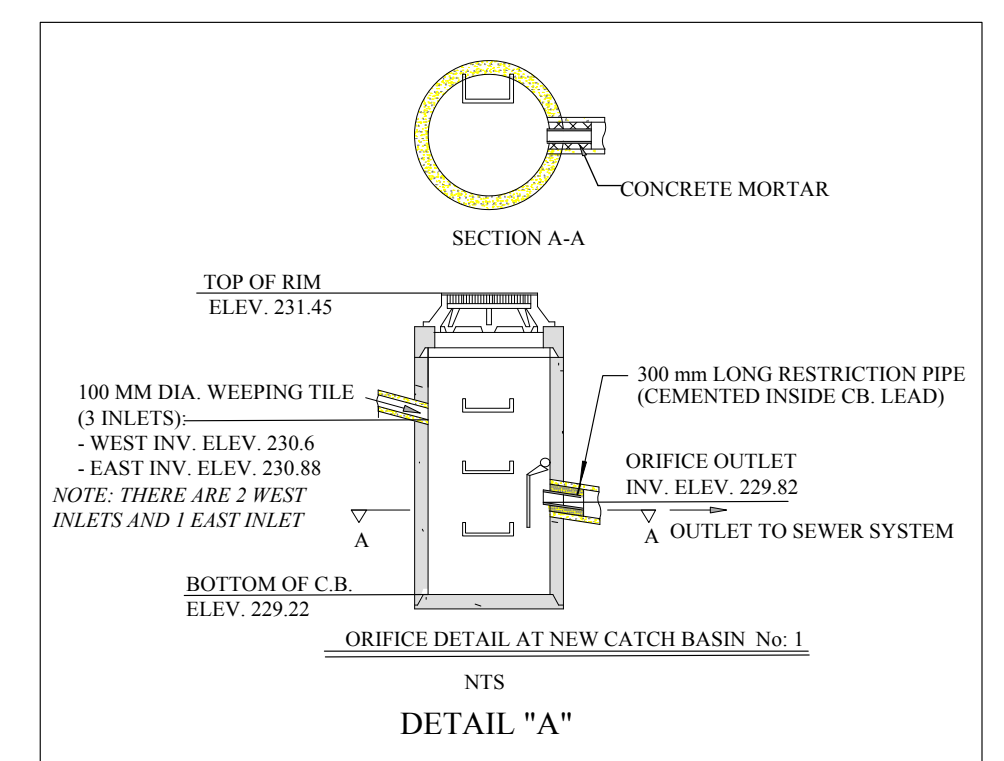


**GRADING LEGEND:**

▲ 232.55	NEW GRADE ELEVATION
■ 231.65	EXISTING GRADE ELEVATION
▲ T.W. / 231.75	TOP OF WALL ELEVATION
● INV. / 232.08	INVERT ELEVATION OF GRANULAR DRAIN
← 1.26%	DIRECTION OF DRAINAGE AND PERCENTAGE OF SLOPE
← 4.1	4 HORIZONTAL / 1 VERTICAL SLOPE
-----	NEW UNDERGROUND GRANULAR DRAIN AND DIRECTION OF SLOPE
-----	LIMIT OF GRADING / SOD RESTORATION

**NOTE:**

- EXISTING GRADE ELEVATIONS AND SITE SURVEY IS BASED ON DEAN SPEARMAN LANDSCAPE ARCHITECT SURVEY. ELEVATIONS ARE GEODETIC AND REFERRED TO CITY OF WINNIPEG BENCH MARK No. 33-009 (ELEVATION 233.185) LOCATED IN EAST FOUNDATION WALL OF LOUIS RIEL ARTS TECHNOLOGY CENTRE.
- UNLESS NOTED OTHERWISE, ALL NEW GRADES SHALL BE A STRAIGHT LINE FROM ONE GRADE POINT TO ANOTHER.
- LOCATE AND PROTECT ALL UNDERGROUND UTILITIES, SURVEY MONUMENTS, ETC. PRIOR TO COMMENCING CONSTRUCTION.
- ALL SEWERS TO BE INSTALLED IN ACCORDANCE WITH THE LATEST REVISION OF THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
- INSTALL A SECOND WEST WEAVING TILE PIPE INTO THE CATCH BASIN, MINIMUM 2 METRE LENGTH, TO MAXIMIZE WATER FLOW OUT OF THE CATCH BASIN LEAD.
- ALL ROUGH GRADING AND FINISH GRADING, MUST BE UNDERTAKEN USING EARTHMOVING EQUIPMENT WHICH IS GUIDED BY LASER OR GPS CONTROLLED DATA. COMPACTION FOR FILL MUST BE DONE IN MAXIMUM 150 MM LIFTS.



**PROFESSIONAL ENGINEER**

**GA PRATT**

**Certificate of Authorization**  
G. A. Pratt & Associates Inc.  
No. 758 Expiry: April 30, 2015

**GA PRATT & ASSOCIATES INC.**  
ENGINEERING CONSULTANTS

**LAND DRAINAGE NOTES:**

**AREAS**

- TOTAL AREA 4.743 ACRES
- GRASS: 4.743 ACRES (C<sub>i</sub> = 0.1)
- IMPERVIOUS AREA - 0.0 ACRES

**SITE DRAINAGE RESTRICTION**

- assigned "C<sub>i</sub>" value for the site 0.1
- runoff restricted to 5 year event and storage on site for 25 year event
- allowable "Q" from site is 2.04 cfs
- required storage for the 25 year design storm is 25,780 cubic feet
- actual storage is 28,750 cubic feet with depth of storage at 0.20 metres (elevation 231.85)

**ORIFICE DESIGN - New Catch Basin No. 1**

Q = a√2gh "c" = 0.61 "Q" = 2.04 cfs  
h = Height of water from centre of orifice (3.93feet)  
Diameter of orifice = 6.2 inches  
Contractor to install a 158 mm pipe gouted inside 200 LDS. See detl. "A".

<b>PROJECT TITLE</b> Art McQuat Memorial Park for the City of Winnipeg			
<b>ATHLETIC FIELD IMPROVEMENTS</b>			
<b>DRAWING TITLE</b> SITE GRADING PLAN			
NO.	REVISIONS	BY	DATE
1	ADD NEW CATCH BASIN NO. 1	K.R.	JULY 10, 2014
<b>DRAWN BY</b> K. Rech		<b>SCALE</b> 1:400	<b>SHEET NO.</b> L2
<b>PRINT DATE</b> JULY 3, 2014		<b>DATE</b> JULY 3, 2014	<b>REVISION</b> 1
<b>FILE NO.</b> 14-03			

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