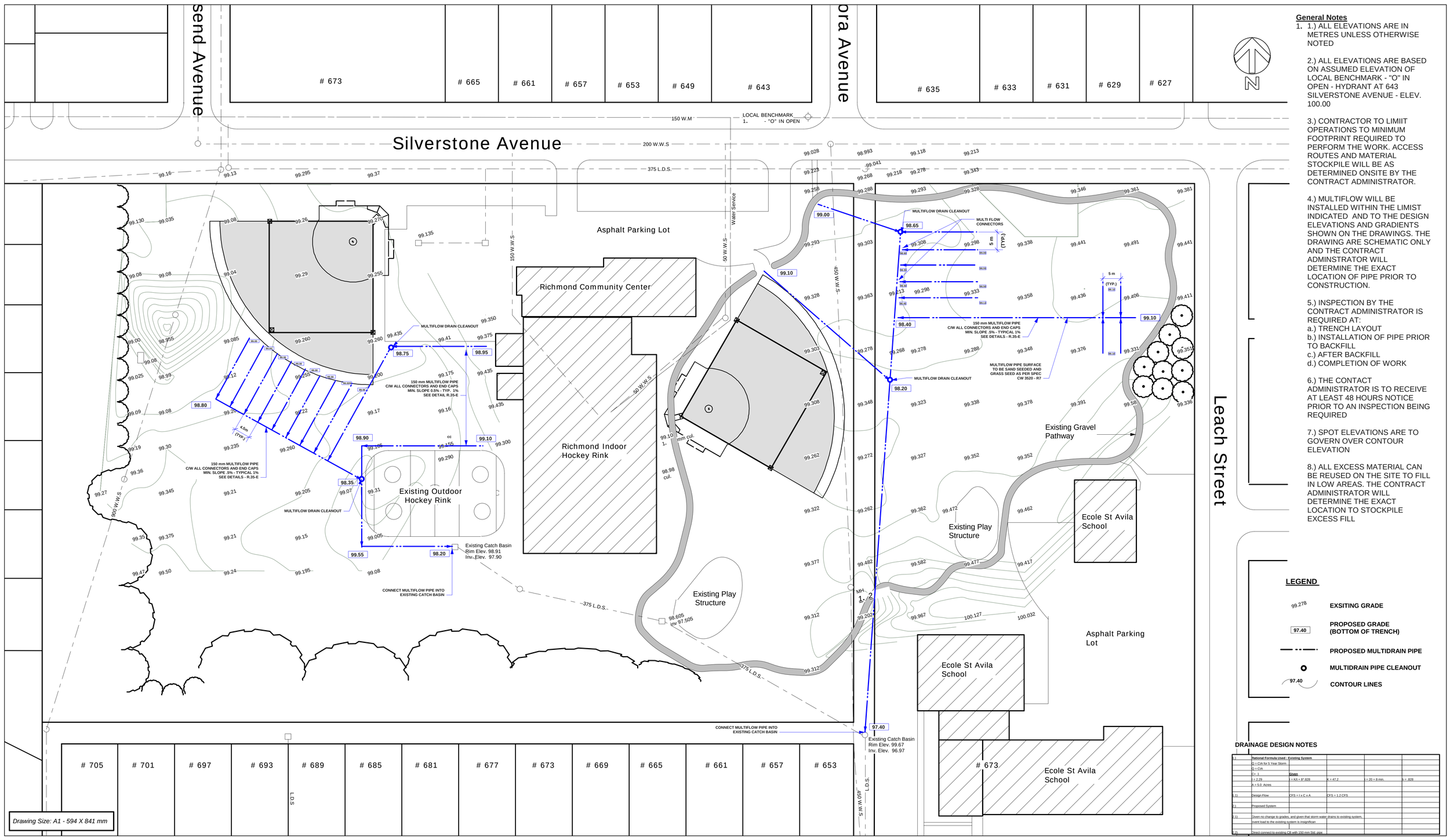


Drawing Size: A1 - 594 X 841 mm

## General Notes

1. 1.) ALL ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED

   2.) ALL ELEVATIONS ARE BASED ON ASSUMED ELEVATION OF LOCAL BENCHMARK - "O" IN OPEN - HYDRANT AT 643 SILVERSTONE AVENUE - ELEV. 100.00

   3.) CONTRACTOR TO LIMIIT OPERATIONS TO MINIMUM FOOTPRINT REQUIRED TO PERFORM THE WORK. ACCESS ROUTES AND MATERIAL STOCKPILE WILL BE AS DETERMINED ONSITE BY THE CONTRACT ADMINISTRATOR.

   4.) MULTIFLOW WILL BE INSTALLED WITHIN THE LIMIST INDICATED AND TO THE DESIGN ELEVATIONS AND GRADIENTS SHOWN ON THE DRAWINGS. THE DRAWING ARE SCHEMATIC ONLY AND THE CONTRACT ADMINSTRATOR WILL DETERMINE THE EXACT LOCATION OF PIPE PRIOR TO CONSTRUCTION.

   5.) INSPECTION BY THE CONTRACT ADMINISTRATOR IS REQUIRED AT:
   a.) TRENCH LAYOUT
   b.) INSTALLATION OF PIPE PRIOR TO BACKFILL
   c.) AFTER BACKFILL
   d.) COMPLETION OF WORK

   6.) THE CONTACT ADMINISTRATOR IS TO RECEIVE AT LEAST 48 HOURS NOTICE PRIOR TO AN INSPECTION BEING REQUIRED

   7.) SPOT ELEVATIONS ARE TO GOVERN OVER CONTOUR ELEVATION

   8.) ALL EXCESS MATERIAL CAN BE REUSED ON THE SITE TO FILL IN LOW AREAS. THE CONTRACT ADMINISTRATOR WILL DETERMINE THE EXACT LOCATION TO STOCKPILE EXCESS FILL

## LEGEND

- 99.278 — EXSITING GRADE
- 97.40 — PROPOSED GRADE (BOTTOM OF TRENCH)
- PROPOSED MULTIDRAIN PIPE
- MULTIDRAIN PIPE CLEANOUT
- 97.40 — CONTOUR LINES

## DRAINAGE DESIGN NOTES

| | | | | | |
|---|---|---|---|---|---|
| N.1 | **Rational Formula Used : Existing System** | | | | |
| | Q = C/A for 5 Year Storm | | | | |
| | Q = CIA | | | | |
| | C = 1 | Given | | | |
| | I = 2.29 | I = KA + B^.828 | k = 47.2 | x = 20 + 8 min. | b = .828 |
| | A = 5.0 Acres | | | | |
| N.11 | Design Flow | CFS = I x C x A | CFS = 1.2 CFS | | |
| N.1 | Proposed System | | | | |
| N.11 | Given no change to grades, and given that storm water drains to existing system, event load to the existing system is insignifican | | | | |
| N.2 | Direct connect to existing CB with 150 mm Std. pipe | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | WATERMAIN | | HYDRO | | 150mm W.M. | WATERMAIN | 150mm W.M. | |
| | HYDRANT | | M.T.S. | | | HYDRANT | | |
| | VALVE | | CONCRETE | | | VALVE | | |
| | LAND DRAINAGE SEWER | | ASPHALT | | 300mm L.D.S. | LAND DRAINAGE SEWER | 300mm L.D.S. | |
| | WASTE WATER SEWER | | PROPERTY LINE | | 250mm W.W.S. | WASTE WATER SEWER | 250mm W.W.S. | |
| | MANHOLE | | SURVEY BAR | | | | | |
| | CATCH BASIN | | C.B. LEAD | | | | | |
| | CURB INLET | | SIDEWALK | | | | | |
| | | | SIDEWALK RAMP | | | | | |
| | GAS | | 32.55 ELEVATIONS | 32.55 | | | | |
| EXISTING | LEGEND - PLAN | PROPOSED | EXISTING | LEGEND - PLAN | PROPOSED | EXISTING | LEGEND - PROFILE | PROPOSED |

LOCATION APPROVED
UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES COMMITTEE — DATE

NOTE:

LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

B.M. ELEV. "O" in Open - Hydrant at 643 Silverstone 100.00

| NO. | REVISIONS | DATE | BY |
|---|---|---|---|

THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION PURPOSES UNTIL SIGNED BELOW.

THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND OTHER DATA ON SITE AND REPORT ANY DISCREPANCIES TO THE CONTRACT ADMINISTRATOR.

FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS.

| | |
|---|---|
| DESIGNED BY J.F. | CHECKED BY J.K. |
| DRAWN BY J.F. | APPROVED BY J.K. |
| HORI. SCALE 1:500 | |
| VERT.SCALE 1:500 | |
| DATE March , 2007 | |

**RELEASED FOR CONSTRUCTION**

MANAGER, PARKS AND OPEN SPACE — DATE

DIRECTOR OF PLANNING, PROPERTY AND DEVELOPMENT DEPARTMENT — DATE

ENGINEER'S / LANDSCAPE ARCHITECT'S SEAL

Winnipeg

THE CITY OF WINNIPEG
Planning, Property and Development Department
Planning and Land Use Division
Unit 15 - 30 Fort Street, Winnipeg, Manitoba R3C 4X5

DRAWING TITLE

# Richmond Kings C.C. Athletic Fields Drainage Improvements
## Site Layout

CAD DRAWING NO.

SHEET 1 OF 2

DRAWING NO. R.35-D

Date: *March 14, 2007*
File name: *RichmondKings_v12.mcd*