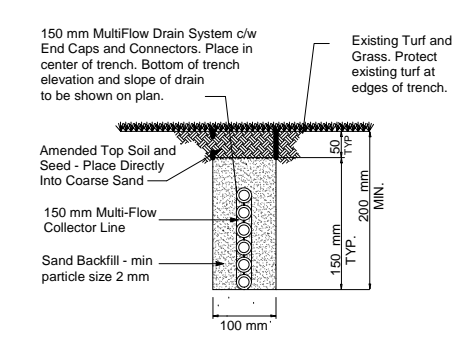


LANDSCAPE ROCK DETAIL
N.T.S.



MULTI-FLOW DRAIN AND TRENCH DETAILS
N.T.S.

- 1.0 CONSTRUCTION NOTES**
- ALL CONSTRUCTION TO CONFORM WITH APPROPRIATE CITY OF WINNIPEG CONSTRUCTION SPECIFICATIONS.
 - CONTRACTOR TO OBTAIN ALL PERMITS.
 - CONTRACTOR TO CLEAR UTILITIES BEFORE EXCAVATING.
 - AUGER UNDER STREET PAVEMENT.
 - BACKFILL IN LANDSCAPED AREAS TO BE CLASS FOUR.

- 7 MATERIALS**
- LDS: SDR-35
CATCH BASINS: 750 mm x 1.20 m WITH OPEN GRATES

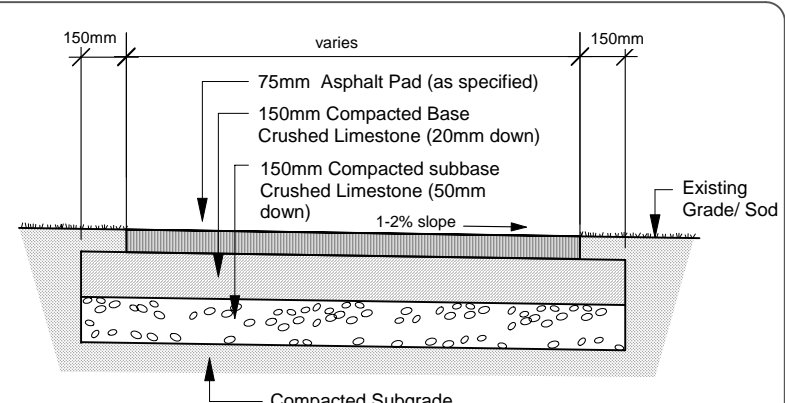
- 2.0 DRAINAGE DESIGN NOTES**
- RATIONAL FORMULA WAS USED.
 $Q = CIA$ FOR FIVE YEAR STORM
CATCHMENT AREA (A) = 2500 SM = 0.62 AC
 $t = 20$ MINUTES
 $i = 3.0$ in/HR
 $\frac{1}{t+8} = \frac{47.2}{.828(20+8)}$
 - ASSUMED ALLOWABLE RUNOFF COEFFICIENT: $C = 0.35$
MAXIMUM ALLOWABLE OUTFLOW: 0.65 CFS (PEAK FLOW)
 - CALCULATED RUNOFF COEFFICIENT FOR CATCHMENT AREA IS 0.23 (REFER TO RUNOFF CALCULATION TABLE).
NO ORFICE SIZE REQUIRED
 - ALL STORAGE CATCHMENT AREAS ARE CALCULATED TO CONTAIN A 25 YEAR STORM.

RUNOFF COEFFICIENT TABLE

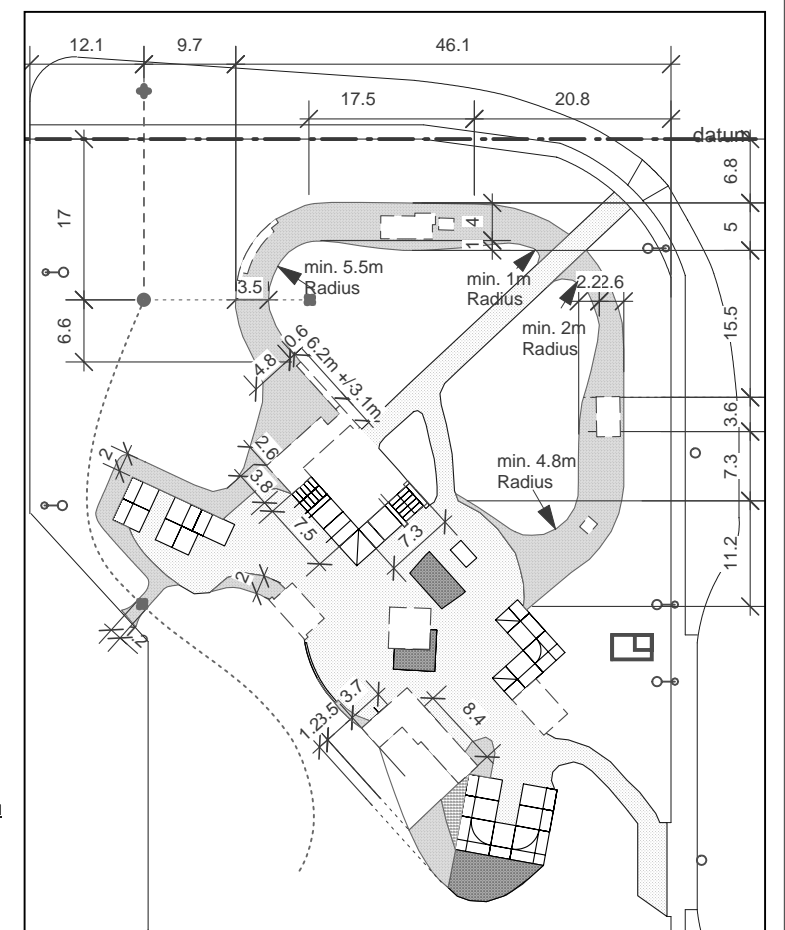
SURFACE	AREA	C	FRACTION
PAVEMENT	400 SM	0.90	0.14
LANDSCAPING	2100 SM	0.10	0.084
	2500 SM		0.224

AVERAGE WEIGHTED C = 0.23 (ROUND OFF)

- 3.0 MISCELLANEOUS NOTES**
- TOPGRAPHIC SURVEY BY PUBLIC WORKS
 - EXISTING UTILITY INFORMATION COMPILED FROM WATER & WASTE GEO ENGINEERING DRAWING.
 - GEODETTIC BENCH MARK 62-007
ELEVATION 232.064 METRES.



SKATEBOARD & PATHWAY ASPHALT PAD DETAIL
N.T.S.



LAYOUT DIMENSIONS
1:800

CONTRACTOR TO CONFIRM ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO CONTRACT ADMINISTRATOR PRIOR TO CONSTRUCTION. 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.

<p>THE CITY OF WINNIPEG Planning, Property and Development Department Planning and Land Use Division Unit 15 - 30 Fort Street, Winnipeg, MB, (R3C 4X5)</p>	DESIGNED BY	SP/SF	CHECKED BY	SF	DRAWING TITLE	DRAWING NO.
	DRAWN BY	SP	APPROVED BY			
	HORIZ. SCALE	1:600			PHASE II	
	DATE	APRIL 2007			Proposed Additions	
			MANAGER, PARK AND OPEN SPACES	DATE	SITE ADDRESS	580 St. Anne's Road
			MANAGER, PLANNING AND LAND USE DIVISION	DATE		BID OPPORTUNITY NO. 272-2007