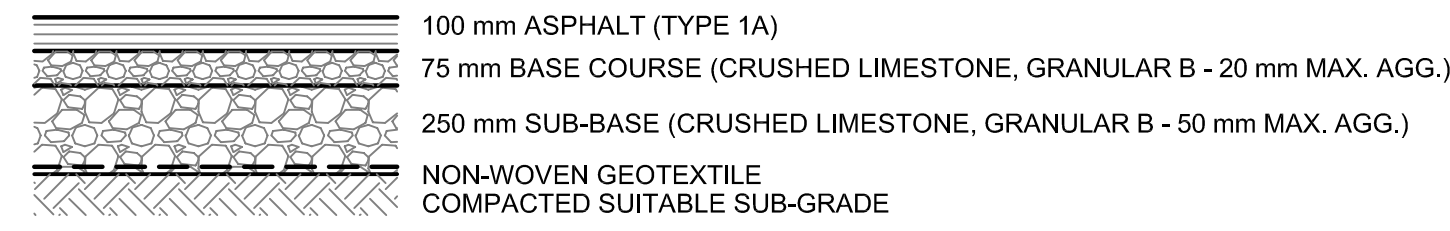


NOTE:
 - REFER TO ARCH. FOR SITE LAYOUT DIMENSIONS
 - REFER TO ARCH. FOR TREE PROTECTION REQUIREMENTS

- GENERAL CONSTRUCTION NOTES:
1. ALL CONSTRUCTION AND MATERIALS INCORPORATED IN THE WORK SHALL CONFORM TO THE LATEST EDITION OF THE CITY OF WINNIPEG "STANDARD CONSTRUCTION SPECIFICATIONS", UNLESS NOTED OTHERWISE.
 2. LOCATIONS 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, EXACT LOCATION AND DEPTH OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.
 3. LOCATIONS OF PROPERTY LIMITS AND EXISTING AND/OR PROPOSED FEATURES RELATIVE TO THESE LIMITS AS SHOWN DO NOT REPRESENT A LEGAL SURVEY. SBC INC. MAKES NO REPRESENTATION OR GUARANTEE THAT THE PROPERTY LIMIT INFORMATION SHOWN IS ACCURATE, AND ACCEPTS NO RESPONSIBILITY FOR ANY DAMAGES SUFFERED BY ANY THIRD PARTY AS A RESULT OF DECISIONS OR ACTIONS BASED ON THIS DRAWING.
 4. ALL SURFACES AND ANY EXISTING UTILITIES DAMAGED OR DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO ITS ORIGINAL CONDITION OR BETTER, OR REPLACED, AT THE CONTRACTOR'S EXPENSE.



ASPHALT SURFACE STRUCTURE
N.T.S.

NOTE:
 ASPHALT STRUCTURE BASED ON GEOTECHNICAL INVESTIGATION REPORT RECOMMENDATIONS COMPLETED BY TREK GEOTECHNICAL (DATED OCTOBER 8, 2021).

GRAVEL SURFACE STRUCTURE
N.T.S.

NOTE:
 GRAVEL STRUCTURE BASED ON GEOTECHNICAL INVESTIGATION RECOMMENDATIONS PROVIDED BY TREK GEOTECHNICAL (DATED OCTOBER 22, 2021).

STORM WATER MANAGEMENT CRITERIA

RUN-OFF FLOWS DETERMINED BY THE RATIONAL FORMULA METHOD
 $Q = 0.278CIA$, WHERE Q = RATE OF RUNOFF (cms)
 C = COEFFICIENT OF RUNOFF
 I = RAINFALL INTENSITY (mm/hr)
 A = DRAINAGE AREA (ha)

TIME OF CONCENTRATION, $T_c = 10$ min
 RAINFALL INTENSITY, I = 5 YEAR DESIGN STORM, I = 109.5 mm/hr
 I = 25 YEAR DESIGN STORM, I = 154.3 mm/hr

AREA OF PROPOSED WORK = 2,797 sq.m.

(NOTE: EXISTING DRAINAGE PATTERN SHALL BE MAINTAINED AND ALL RUNOFF SHALL BE DIRECTED TO RED RIVER VIA SURFACE DRAINAGE THROUGH PARK.)

	TOTAL SITE	TOTAL SITE W/ ALTERNATE SURFACE
IMPERVIOUS AREA	1,652 sq.m.	2,282 sq.m.
PERVIOUS AREA	1,145 sq.m.	515 sq.m.
C - PRE-DEVELOPMENT	0.26	0.26
C - POST-DEVELOPMENT	0.66	0.83
Q - 5Y PRE-DEVELOPMENT	0.022 cms	0.022 cms
Q - 5Y POST-DEVELOPMENT	0.057 cms	0.070 cms
Q - 25Y PRE-DEVELOPMENT	0.031 cms	0.031 cms
Q - 25Y POST-DEVELOPMENT	0.080 cms	0.099 cms
Q - 5Y INCREASE	0.035 cms	0.048 cms
Q - 25Y INCREASE	0.049 cms	0.068 cms

150 W/M	WATERMAIN	150 W/M
250 W/S	WASTEWATER	150 W/S
300 L/D	LAND DRAINAGE SEWER	300 L/D
⊗	HYDRANT ASSEMBLY	⊗
⊙	GATE VALVE	⊙
⊘	CURB STOP	⊘
⊚	REDUCER	⊚
○	MANHOLE	○
□	CATCH BASIN	□
▽	CATCH PIT	▽
⊕	CLEAN OUT	⊕
⊖	TESTHOLE	⊖
⊞	SURVEY BAR	⊞
⊟	SIGN	⊟
⊠	UTILITY POLE	⊠
⊡	UTILITY PEDESTAL	⊡
---	HYDRO	
---	GAS	
---	MTS	
---	TREE LINE	
====	CULVERT	====
>>>>	SWALE	>>>>
→	DIRECTION OF FLOW	→
235.380	GROUND ELEVATION	235.38
235.38	DITCH ELEVATION	235.38
235.400	ROAD ELEVATION	235.400
EXISTING	LEGEND	PROPOSED

NO.	DATE	REVISION / ISSUANCE
4	-	-
3	21.11.02	- ISSUED FOR CONSTRUCTION
2	21.09.22	- ISSUED FOR 99% REVIEW
1	21.08.20	- ISSUED FOR 66% REVIEW
0	21.07.05	- ISSUED FOR 33% REVIEW

SURVEY INFORMATION AS SHOWN PROVIDED BY PHILLIPS & STEVENS AND DATED AUGUST 2021.

1 SITE GRADING PLAN
C2.1 1:300

METRIC
 WHOLE NUMBERS INDICATE MILLIMETRES
 DECIMALIZED NUMBERS INDICATE METRES



ENGINEERS
 GEOSCIENTISTS
 MANITOBA
 Certificate of Authorization
 Sison Blackburn Consulting Inc.
 No. 5581

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Project
 ST. VITAL PARK MAINTENANCE FACILITY

190 RIVER ROAD

Sheet Title
 SITE GRADING PLAN

Project No.	20105	Sheet	C2.1
Date	21.10.02		