

- GENERAL CONSTRUCTION NOTES:**
- 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.
 - 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.
 - 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.
 - 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.

STORMWATER MANAGEMENT CRITERIA
 *BASED ON PROPOSED LIMITS OF CONSTRUCTION

ALLOWABLE "C" VALUE = 0.15 (IF CONNECTING TO 300 CS ON ARMSTRONG AVE.)
 (UNRESTRICTED IF EXISTING DRAINAGE PATTERN IS MAINTAINED)

EXISTING "C" VALUE = 0.63
 EXISTING RUNOFF (5Y) = 0.053 m³/s

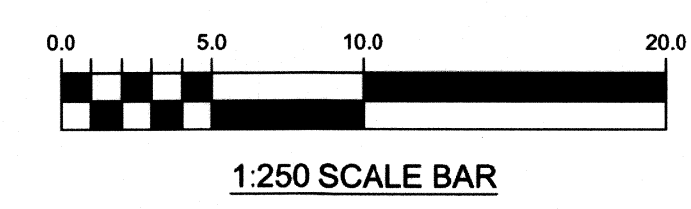
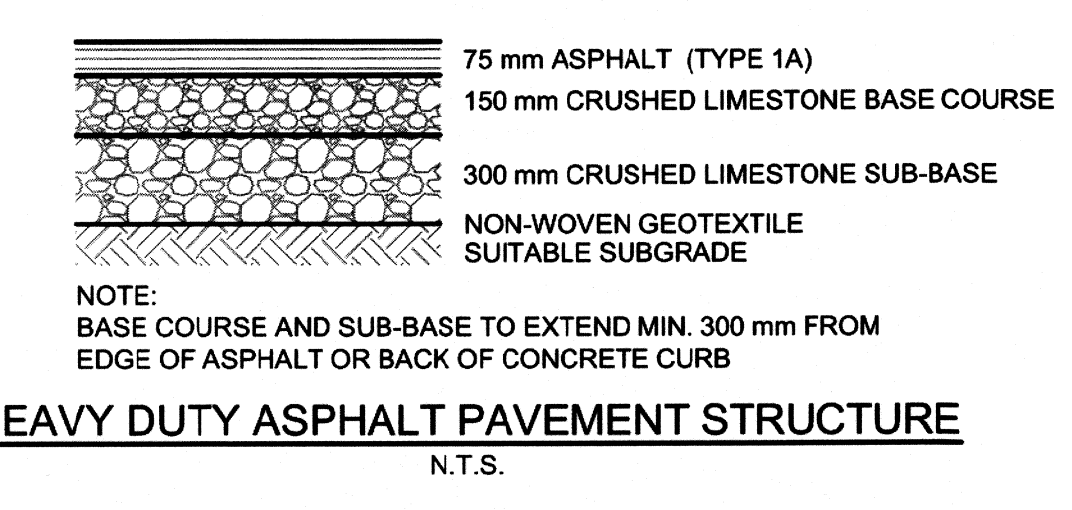
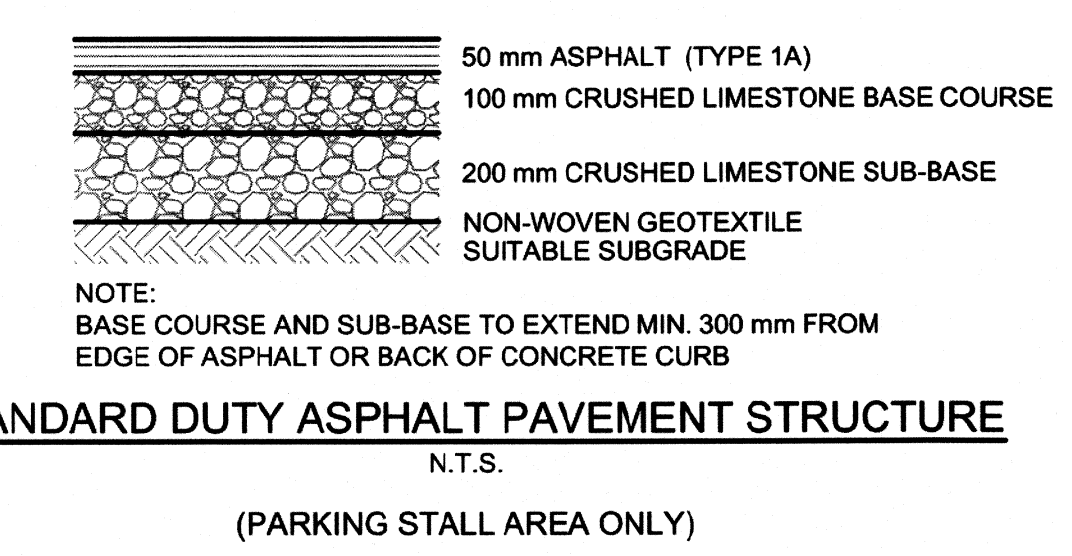
POST DEVELOPMENT "C" VALUE = 0.70
 POST DEVELOPMENT RUNOFF (5Y) = 0.059 m³/s
 (25Y) = 0.083 m³/s

INCREASE IN RUNOFF BASED ON PROPOSED LIMITS = 0.006 m³/s

EXISTING DRAINAGE PATTERN SHALL BE MAINTAINED AND ALL RUNOFF SHALL BE DIRECTED TO EXISTING STREAM NEAR THE SOUTH-EAST LIMIT OF SITE, DRAINING TOWARD THE RED RIVER.

SURVEY INFORMATION PROVIDED BY PHILLIPS & STEVENS AND DATED AUGUST 2016.

METRIC
 WHOLE NUMBERS INDICATE MILLIMETRES
 DECIMALIZED NUMBERS INDICATE METRES



150 WM	WATERMAIN	150 WM
250 WWS	WASTEWATER	150 WWS
300 LDS	LAND DRAINAGE SEWER	300 LDS
⊕	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

0 17.06.30 ISSUED FOR CONSTRUCTION
 No. DATE REVISION / ISSUANCE

APEGN
 Certificate of Authorization
 Sison Blackburn Consulting Inc.
 No. 5561 Date: JUNE 30 17

PROVINCE OF MANITOBA
REGISTERED PROFESSIONAL ENGINEER
 R. CABINGTON
 Member 24517
 17-06-30

| x | architecture inc.
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BID OPPORTUNITY No. 450-2017
KILDONAN PARK
MAINTENANCE BUILDING

GRADING PLAN

Project No. 1559
 Date: JUNE 30, 2017

C1.2