

DESCRIPTION OF WORK

1. The Contractor shall excavate and haul away existing material from a parking lot area and supply and install crushed limestone sub-base and base course, geotextile fabric, asphalt and related works in accordance with the construction drawing and the requirements hereinafter specified.

DEFINITIONS

- (a) "Contract Administrator" means the person authorized to represent the Owner in respect to this Contract.
- (b) "Total Performance" means that the entire Work, except those items arising from the provisions of any warranty, have been performed in accordance with this Contract.

SITE INVESTIGATION

1. The Contractor is responsible for investigating the Site, the nature of the Work to be done and all local conditions that might affect his performance of the work, including:
 - (a) the location of any underground utilities;
 - (b) the nature of the surface and subsurface conditions at the Site;
 - (c) the nature, quality or quantity of the equipment needed to perform the Work; and
 - (d) all matters concerning access to the Site.

WORK SCHEDULE

1. The Contractor shall achieve Total Performance of the Work, including sod maintenance in accordance with CW 3510-R7.
2. Unless reasonably necessitated by the nature of the Work, or authorized by the Contract Administrator, Work shall be performed in a continuous manner without interruption.

WARRANTY

1. The Contractor warrants that the Work will be free of any defects or deficiencies for a period of one (1) year from the date of Total Performance.
2. Upon notification by the Contract Administrator, the Contractor shall, at his sole cost and expense, remedy any defect or deficiency identified by the Contract Administrator during the warranty period and any damage that may arise or result from the defect or as a result of the correction of same.

DAMAGE TO EXISTING STRUCTURES AND PROPERTY

1. All necessary precautions shall be exercised by the Contractor so as not to remove, disturb, or damage any existing trees, shrubs, pavements, streets, roads, boulevards, poles, hydrants, water pipes, electrical wires, cables, conduits, sewers or other existing facilities and equipment at the site of the work. For all damage incurred thereto in the performance of the work, the Contractor shall upon instructions from and to the satisfaction of the City of Winnipeg, either replace and repair such damage, whichever may be deemed necessary in the opinion of, and acceptable to, the City of Winnipeg and the cost of which shall be borne entirely by the Contractor. The Contractor shall also indemnify and save harmless the City of Winnipeg and the Garden City Community Centre from all claims made directly or indirectly against it in respect to any such damage.

STAKES AND MARKS

1. The Contractor will set control lines and bench marks by means of stakes, buoys or marks and the Contractor shall make the completed works conform to the lines and marks thus indicated.
2. All layout work and elevation marks shall be inspected and approved by the Contract Administrator prior to construction.
3. Before commencing work the Contractor shall satisfy himself as to the meaning and correctness of all stakes and marks and no claims shall be entertained by the City of Winnipeg or the Garden City Community Centre on account of any alleged inaccuracies.

CLEAN UP

1. The Contractor shall maintain the Site of the Work, the parking lot and the public lane, in a tidy condition and free from the accumulation of waste and debris. Total Performance of the Work shall not be attained until the Contractor has cleaned up the Site and has removed all plant, tools, equipment, waste and debris to the satisfaction of the Contract Administrator.

CW 3170-R3 EARTHWORK AND GRADING

1. This specification shall supplement the City of Winnipeg's Standard Construction Specification CW 3170-R3.
2. The Contractor shall excavate existing in-site material within the parking lot area as identified on the Construction Drawing to the required depth to allow for the specified compacted thickness of base and asphalt.
3. All excavated material shall be removed, hauled and disposed of off-site to the satisfaction of the Contract Administrator.
4. Site grading shall be completed within the limits indicated and to the design elevations and gradients shown on the Construction Drawings.
5. The design gradient for all areas shall be considered to be straight grade between the design elevation shown.
6. Elevations shown on the Construction Drawings are the finished grade (ie. top of asphalt, limestone or sod unless otherwise noted).

CW 3110-R6 SUB-GRADE, SUB-BASE AND BASE COURSE CONSTRUCTION

1. Sub-grade compaction to CW 3110-R6. The bottom of the excavation shall be inspected and approved by the Contract Administrator before the Contractor may begin compaction of the sub-grade.
2. Sub-grade shall be free of any fibrous organics, softened and disturbed soil. The prepared sub-grade shall be proof rolled with a heavy sheeps foot roller (min. 20 passes) and inspected by the Contract Administrator to detect for any soft spots or silt prior to placement of overlying granular fills.
3. Sub-grade shall be compacted to a minimum of ninety five percent (95%) of Standard Proctor Density.

CW 3110-R6 SUB-BASE CONSTRUCTION - CRUSHED LIMESTONE (50mm DOWN)

1. The bottom of the excavation shall be inspected and approved by the Contract Administrator before the Contractor can place the sub-base material.
2. The sub-grade shall be free of any fibrous organic, softened and disturbed soil. Soft spots, if detected, shall be excavated and backfilled with crushed limestone sub-base material in accordance with City Specification CW3110-R6.
3. Crushed limestone sub-base course material shall be well graded and include organic free, non-frozen, durable rock and shall have a maximum aggregate size of 50mm (2 inches).

CW 3110-R6 BASE COURSE CONSTRUCTION - CRUSHED LIMESTONE (19mm DOWN) BASE COURSE

1. Crushed limestone base material shall consist of sound, hard crushed rock and shall be free from organic or soft material which would disintegrate through decay or weathering. Aggregate retained on a No. 5000 Sieve shall contain not less than thirty five (35%) crushed aggregate as determined by actual particle count.
2. Crushed limestone base shall be compacted to a minimum of one hundred percent (100%) of Standard Proctor Density.

CW 3410-R5 ASPHALTIC CONCRETE PAVEMENT WORKS

1. The Contractor shall supply and construct Type IA asphaltic concrete in accordance with the lines, grades and thicknesses shown on the Construction Drawing A-1 and Standard Construction Specification CW 3410-R5.
2. Density of completed asphalt after final rolling shall be a minimum of ninety-eight percent (98%) of the 75 Blow Standard Marshall Procedure.

QUALITY CONTROL

1. The Contract Administrator will obtain a qualified independent testing lab to conduct tests on materials to determine the acceptability of the sub-grade, sub-base, base course and asphaltic concrete as placed by the Contractor in accordance with the requirements of this Specification.
2. Non-conformity with the specified test requirements or compacted layer thicknesses will constitute sufficient grounds for rejection of the work.

CW 3510-R7 SODDING & CW 3540-R2 TOPSOIL AND FINISH GRADING


1. Any damage to grassed areas beyond the specified limit of the work disturbed by the Contractor's operations, shall be restored or replaced at the Contractor's expense. Sodding only, will be acceptable for grassed area restoration.
2. Supply and installation of all topsoil and sod shall be in accordance with Specifications CW 3510-R7 and CW 3540-R2. Sod shall be City of Winnipeg approved sod for general park areas grown on a mineral soil base.

CW 3130 SUPPLY AND INSTALLATION OF GEOTEXTILE FABRICS

1. Geotextile: shall consist of a woven geotextile fabric, used as a separator between the crushed limestone sub-base material and the compacted subgrade. The woven geotextile material for construction shall be Mirafit 600X, Amoco 2006 or Armtac 855.
2. All work related to the geotextile storage, handling and installation shall comply with the recommendations of the manufacturer and shall be in accordance with Standard Construction Specification CW 3130-R1.
3. Prior to laying the fabric, the subgrade material shall be cleared of all unsuitable material and compacted to provide a smooth uniform surface in accordance with CW3110 and to the satisfaction of the Contract Administrator.
4. The fabric shall be evenly laid, in order to allow conformity to the compacted subgrade. Fold and wrinkles in the fabric shall be avoided. Upon completion of the installation of the fabric, crushed sub-base material shall be installed.

PARKING STALLS LINE PAINTING

1. The line paint supplied shall be in accordance with CGSB 1-GP-74M+AMDT-MAY-81, Alkyd Traffic Paint.
2. The paint colour shall be to CGSB 1-GP-12C+AMDT-DEC-84, Yellow 505-308.
3. Lines which indicate the stalls shall be painted as per Drawing and/or as directed by the Contract Administrator. Each stall line shall be 75mm wide and 6.1m long.
4. The paint shall be applied evenly at a rate 3m²/L by an approved pressure type mobile distributor. All paint marking shall be painted within plus or minus 20mm.

NO.	DESCRIPTION	DATE	BY
	<p>REVISIONS / ISSUE</p> <p>THE CITY OF WINNIPEG</p> <p>PUBLIC WORKS DEPARTMENT BUILDING SERVICES DIVISION 100 MAIN STREET, MAIN FLOOR WPG, MB, R3C 1A4</p> 		
<p>PROJECT: GARDEN CITY COMMUNITY CENTRE 725 KINGSBURY AVENUE WINNIPEG, MANITOBA CONSTRUCTION OF ASPHALT PAVED PARKING LOT</p>			
SHEET TITLE PARKING LOT PAVEMENT WORKS SPECIFICATIONS			
ENG. STAMP	PROJECT NO. 0400018510	DRAWN BY: L.M.C.	CHECKED BY:
	APPROVED BY:		
SCALE: NOT TO SCALE		DATE: JULY 5/04	REV.:
DRAWING NO. L02			