



54-2007 ADDENDUM 1

CITY OF WINNIPEG 2007 RESIDENTIAL STREET RENEWAL PROGRAM GALLOWAY STREET, ALFRED AVENUE, AND VARIOUS OTHER LOCATIONS

URGENT

**PLEASE FORWARD THIS DOCUMENT TO
WHOEVER IS IN POSSESSION OF THE BID
OPPORTUNITY**

ISSUED: January 29, 2007
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**THIS ADDENDUM SHALL BE INCORPORATED
INTO THE BID OPPORTUNITY AND SHALL
FORM A PART OF THE CONTRACT
DOCUMENTS**

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Please note the following and attached changes, corrections, additions, deletions, information and/or instructions in connection with the Bid Opportunity, and be governed accordingly. Failure to acknowledge receipt of this Addendum in Paragraph 10 of Form A: Bid may render your Bid non-responsive.

PART A – BID SUBMISSION

Replace: 54-2007 Bid Submission with 54-2007 Addendum 1 - Bid Submission. The following is a summary of changes incorporated in the replacement Bid Submission:

Form B(R1): Revise item A.7 Approx. Quantity to read 700 m².

Revise item B.7 Approx. Quantity to read 500 m².

PART B – BIDDING PROCEDURES

Add: D15.4 The award of this Contract is subject to approval of the 2007 Capital Budget. The City will have no obligation to award the Contract should the budget for this Work not be approved.

PART E – SPECIFICATIONS

Add: E9

E9. SUPPLY AND INSTALLATION OF GEOGRID

E9.1 Description

E9.1.1 This specification covers the supply and installation of Geogrid on unstable Sub-grade soil conditions.

E9.2 Referenced Standard Construction Specifications

E9.2.1 CW 3110 – Sub-grade, Sub-base and Base Course Construction

E9.3 Materials

E9.3.1 Material will be polypropylene, extruded bi-axial single layer Geogrid.

E9.3.2 Acceptable products will be Tenax LBO 302, Nillex BX 1200 or an equal approved by the Contract Administrator.

E9.3.3 All Geogrid rolls must clearly show the product style number and unique roll number.

E9.3.4 Storage and Handling

E9.3.4.1 Store and handle in accordance with the manufacturer's recommendations.

E9.3.5 Mill Certificate and MARV Data

E9.3.5.1 Provide the Mill Certificate and MARV (Minimum Average Roll Data) Data upon request by the Contract Administrator.

E9.4 Construction Methods

E9.4.1 Commence installation of Geogrid after approval by the Contract Administrator and the preparation of the sub-grade has been completed in accordance with CW 3110.

E9.4.2 Supply and install additional separation/reinforcement fabric material in accordance with CW 3130 at locations as directed by the Contract Administrator.

E9.4.3 Unroll Geogrid as smooth as possible on the prepared sub-grade or separation/reinforcement fabric as applicable, in the direction of construction traffic.

E9.4.4 Install the Geogrid in the longest continuous practical length, free from tension, stress, folds, wrinkles and creases.

E9.4.5 Overlap joints a minimum of 900mm.

E9.4.6 Tie adjacent rolls with joint fasteners in accordance to the manufacturer's recommendations.

E9.4.7 Construction vehicles are not permitted directly on the Geogrid.

E9.4.8 Place and compact sub-base material to a minimum depth of 300 mm in accordance with CW 3110.

E9.4.9 Avoid sudden stops or sharp turns by construction equipment during placement of sub-base materials.

E9.4.10 Remove or replace Geogrid improperly installed or damaged as directed by the Contact Administrator.

E9.5 Measurement and Payment

E9.5.1 Supply and installation of Geogrid will be measured on an area basis and paid for at the Contract Unit Price per square metre for "Supply and Install Geogrid". The area to be paid for will be the total number of square metres of Geogrid, supplied and installed in accordance with this specification, accepted and measured by the Contract Administrator.

E9.5.2 Only material placed within the designated sub-grade limits will be included in the payment for "Supply and Install Geogrid".

E9.5.3 No measurement or payment will be made for Geogrid removed and replaced due to improper installation or damaged materials.

E9.5.4 Adjacent roll joint fasteners will be included in payment for "Supply and Install Geogrid".

Add: E10

E10 RECYCLED CONCRETE BASE COURSE MATERIAL

DESCRIPTION

E10.1 General

E10.1.1 Further to CW 3110, this specification covers supply and placement of recycled concrete base course material for Full-Depth Partial Slab Patches (Class A, B, C, & D), miscellaneous concrete slabs and sidewalks.

E10.2 Definitions

- E10.2.1 Deleterious material – are materials such as vegetation, organic material, wood, glass, plastic, metal, reinforcing steel, building rubble, brick, salvaged asphalt materials, clay, shale, and friable particles.
- E10.3 Referenced Standard Construction Specifications
 - (a) CW 3110 – Sub-Grade. Sub-Base and Base Course Construction.
 - (b) CW 3230 – Full-Depth Patching of Existing Pavement Slabs and Joints.
 - (c) CW 3235 – Renewal of Existing Miscellaneous Concrete Slabs.
 - (d) CW 3325 – Portland Cement Concrete Sidewalk.

MATERIALS

- E10.4 Recycled Concrete Base Course Material
 - E10.4.1 Recycled concrete base course material when used for Full-Depth Partial Slab Patches (Class A, B, C, & D), miscellaneous concrete slabs and sidewalks will be considered equal to granular or limestone base course material specified in Section 2.2 of CW 3110.
 - E10.4.2 Recycled concrete base course material will be approved by the Contract Administrator.
 - E10.4.3 Recycled concrete base course material will consist of sound durable particles produced by crushing, screening, and grading of recovered concrete materials, free from soft material that would disintegrate through decay or weathering.
 - E10.4.4 The recycled concrete base course material will be well graded and conform to the following grading requirements:

Recycled Concrete Base Course Material Grading Requirements

CANADIAN METRIC SIEVE SIZE	PERCENT OF TOTAL DRY WEIGHT PASSING EACH SIEVE
20 000	100%
5 000	40% - 70%
2 500	25% - 60%
315	8% - 25%
80	6% - 17%

- E10.4.5 Recycled concrete base course material when subjected to the abrasion test will have a loss of not more than 35% when tested in accordance with grading B of ASTM C131, Test for Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine.
- E10.4.6 The amount of deleterious material will be limited to a maximum of two percent of the total dry weight.

CONSTRUCTION METHODS

- E10.5 Placement of Recycled Concrete Base Course Material
 - E10.5.1 Place and compact recycled concrete base course material as a levelling course to a maximum thickness of 50 millimetres.
 - E10.5.2 Spread materials uniformly to avoid segregation free of pockets of fine and coarse material.
 - E10.5.3 Level and compact to the finished elevation. Compact to 100% Standard Proctor Density for Full-Depth Partial Slab Patches (Class A, B, C, & D) and 90% Standard Proctor Density for miscellaneous concrete slabs and sidewalks.
 - E10.5.4 Maintain the finished material until the pavement or sidewalk is placed.

MEASUREMENT AND PAYMENT

E10.6 Recycled Concrete Base Course Material

E10.6.1 The supplying, placing and compaction of recycled concrete base course material will be measured on a volume basis and paid for at the Contract Unit Price per cubic metre for the "Supplying and Placing Base Course Material" as specified in accordance with CW 3110.

E10.6.2 No measurement or payment will be made for material placed as a levelling course under miscellaneous concrete slabs and sidewalks where the costs are included in accordance with CW 3235 and CW 3325.

E10.6.3 No measurement or payment will be made for materials rejected by the Contract Administrator.

Add: E11

E.11 SUPPLY AND INSTALLATION OF GEOTEXTILE FABRIC

E.11.1 For sub-grades designated as unstable, the Contract Administrator will advise the Contractor to supply and install a non-woven geotextile as the separation / reinforcement fabric.

E.11.2 Use only non-woven geotextiles materials as approved and listed in accordance with section 4.4 of Approved Products for Surface Works.

E.11.3 Measurement and payment for non-woven geotextile fabric will be at the same Contract Unit Price per square metre for "Separation / Reinforcement Geotextile Fabric".

APPENDIX

Add: APPENDIX "A"-GEOTECHNICAL REPORT