
SKINNED INFIELD SURFACE

PART 1 GENERAL**1.1 Description of Work**

- .1 Product is to be used for T-Ball, Jr. Softball, and Recreational Senior Softball fields.
- .2 General Requirements:
Division 1, General Requirements, is a part of this Section and shall apply as if repeated here.
- .3 Work Included:
Provision of all labour, equipment, material, machines, tools, services and incidentals to provide and mix infield surface mix, fine grade and maintain until Substantial Performance of the Work.
- .4 Tolerance:
For finish grade, surface shall be smooth, true to line and level, and free from depressions exceeding six 6mm as measured with 3m straight edge in any direction.

1.2 Related Work

- .1 All Division 1 Specification Sections
- .2 Section [01450](#) Quality Control & Inspection
- .3 Section [02311](#) Site Grading
- .4 Section [02315](#) Excavating, Trenching & Backfilling
- .5 Section [02233](#) Granular Base
- .6 Section [02911](#) Site Topsoil & Finish Grading

1.3 System Description

- .1 Rough Grading by others.
 - .1 When rough grade is established by work of another Section, a tolerance in the subgrade of 25 mm +/- is acceptable.
 - .2 Verify rough grade as established by others prior to commencement of work of this Section.
 - .3 Unless specified elsewhere, commencement of work of this Section will constitute acceptance of the surfaces and conditions.
 - .4 This Section shall be responsible for any filling, cutting, importation, or removal within the specified tolerance.

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- .2 Tolerance
 - .1 For Finish Grade:
Surface grade shall be smooth, true to line and level and free from depressions exceeding 6 mm as measured with a 3 m straight edge in any direction.

1.4 Quality Assurance

- .1 Testing
 - .1 Arrange for material sampling and compaction tests of subgrade and infield skinned materials in accordance with Section [01450](#) – **Quality Control & Inspection**.
 - .2 Sample materials as required to establish compliance.
- .2 Mock-up
 - .1 Provide mock-ups for items listed below.
 - .2 Provide a minimum of three (3) proportional variations of specified ingredients in 6 m² mock-ups of infield mix.

1.5 References

- .1 Reference Standards:
ASTM C-88, Sulphur Soundness Test
CSA A82.56-M1976, Aggregate for Masonry Mortar
OPSS 206, Construction Specification for Grading
OPSS 501, Construction Specification for Compacting
OPSS 1001, Material Specifications for Aggregates – General
OPSS 1004, Material Specifications for Aggregates – Miscellaneous

1.6 Submittals

- .1 Provide a sample of materials to the Consultant. Receive approval of compacted subgrade prior to placement of materials. The Consultant may request testing of the material if deemed suspect.
- .2 Inspection Company Reports:
Submit Inspection Company reports specified under Article 3.6 Field Quality Control.
- .3 Submit grade sheet on a daily basis or as work is carried out.

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1.7 Review of Materials and Work

- .1 Make all materials available for review, upon arrival on the site, or at source of supply when requested.
- .2 Arrange for review of work by the Consultant of infield skinned subgrade prior to commencement of subsequent works.
- .3 Confirm that grade elevations are correct and substrata properly compacted.
- .4 Obtain confirmation from inspection and testing company.
- .5 Make adjustments, where necessary.

1.8 Delivery, Handling and Storage

- .1 Supply and deliver all materials, such as Turface and similar materials, in standard containers, clearly marked with contents, weight, analysis and name of manufacturer.

PART 2 PRODUCTS**2.1 Hazelmag**

- .1 A screened limestone fine aggregate produced by Dufferin Aggregates as a proprietary product named "Hazelmag".
- .2 A screened limestone fine aggregate produced by Redland Quarries as a proprietary product named "Athletic Field Lime".

2.2 Brick Sand

- .1 A fine aggregate meeting the requirements of CSA A82.56-M1976 or OPSS 1004 for Mortar Sand.

2.3 Mar-Co Clay

- .1 A controlled blend of clay, sand and aggregate and is available in three (3) standard mixes: **Firm**, **Standard** and **Light**, telephone 1-800-950-2555.
R. R. 3
Bright, Ontario, CANADA
N0J 1B0

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2.4 Surface

- .1 A calcite clay meeting the requirements of ASTM C-88 Sulphur Soundness Test with 5% less degradation, supplied by Plant Products Co. Ltd., 314 Orenda Rd., Brampton, Ontario, telephone 905 793 7000.

2.5 Brampton Sports Field Mix

- .1 As an alternative and as the standard of acceptance of the Hazelmag and Brick Sand materials, the following proprietary product may be substituted:
 - .1 Brampton Sports Mix produced by Franceschini Brothers Aggregates Limited.

PART 3 EXECUTION**3.1 Site Conditions**

- .1 Site visit and examine the site and soil conditions and be satisfied that work can be carried out in accordance with requirements or contract documents.

3.2 Installation

- .1 Spread material evenly over subgrade in a manner that will not cause segregation, to a depth of 150 mm, and compacted to 90% SPD.
- .2 Ensure material is dry and applied over dry, unfrozen subgrade. Installation shall occur only in dry weather.
- .3 After settling, top up materials to achieve the grade and elevations shown on the plan and as directed in the field. Continue to top up until the required elevations are achieved.

3.3 Skinned Mix

- .1 Refer to and also follow Section [02311](#) – Site Grading.
- .2 Prepare a nominal mixture by volume of 75% Hazelmag and 25% Brick Sand. Ensure ingredients are thoroughly mixed.
- .3 Spread dry Hazelmag/Brick Sand mixture during dry weather over approved, dry, unfrozen subgrade.

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3.4 **Turf**

- .1 Cover entire surface of skinned area with a 50 mm layer of Turf.
- .2 Rototill Turf into top 100 mm of Hazelmag/Brick Sand mixture, rake to grades indicated and roll with 75 kg roller.

3.5 **Protection**

- .1 Assume full responsibility for protection of infield skinned areas until final acceptance of work.
- .2 Erect protective barriers and post signs where necessary and maintain same until acceptance. Remove same after final review.
- .3 Remedy damages, wash-outs and eroded areas resulting from weather, improper protection, or other causes.
- .4 Report, in writing, to the Consultant all damages resulting from vandalism or any other causes beyond Contractor's control not provided for by these documents.

3.6 **Field Quality Control**

- .1 Inspection Services:
An inspection and testing company will be selected to verify that work of this section has been carried out as specified. Refer to Article 1.04 – Quality Assurance.
- .2 Distribute copies of reports immediately following each inspection and test.
- .3 Payment for inspection and testing will be made from cash allowance.
- .4 Assist Inspection Company in the execution of its work.

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370 Steelcase Road East
 Markham, Ontario L3R 1G2
 Tel: (905) 940-8383
 Toll Free: 1-800-819-8833
 Fax: (905) 940-8508

Grain Size Analysis Test Report

Project No.: 05-1017-01 Project Description: ~~Contract # 2005-024, Major Road Rep~~ Date: November 01, 2005
 Project Location: Various Locations Submitted Sample. Contract No.:

SAMPLE DATA

Material: Screenings
 Date Sampled: 21-Oct-05
 Time Sampled:
 Sample Type: Stockpile
 Sample Location: Sports Mix Screenings
 Source:
 Sampled By:

See Sam Bietenholz.

PDF

Grain Size Analysis

Sieve Sizes (mm)	Percent Passing	
	Sample	Specification
150.0	100	
106.0	100	
75.0	100	
53.0	100	
37.5	100	
26.5	100	
22.4	100	
19.0	100	
16.0	100	
13.2	100	
9.5	100	
6.7	100	
4.75	99.62	
2.36	81.8	
1.18	62	
0.600	42.3	
0.300	25.6	
0.150	17.5	
0.075	12.49	

LAB DATA

Lab No.: 3867
 Date Tested: 28-Oct-05
 Specification: ,

PARTICLE ANALYSIS

TEST	Sample	Specification
Percent Crushed:		
% Asphalt Coated:		
% Flat and Elongated	0.0	

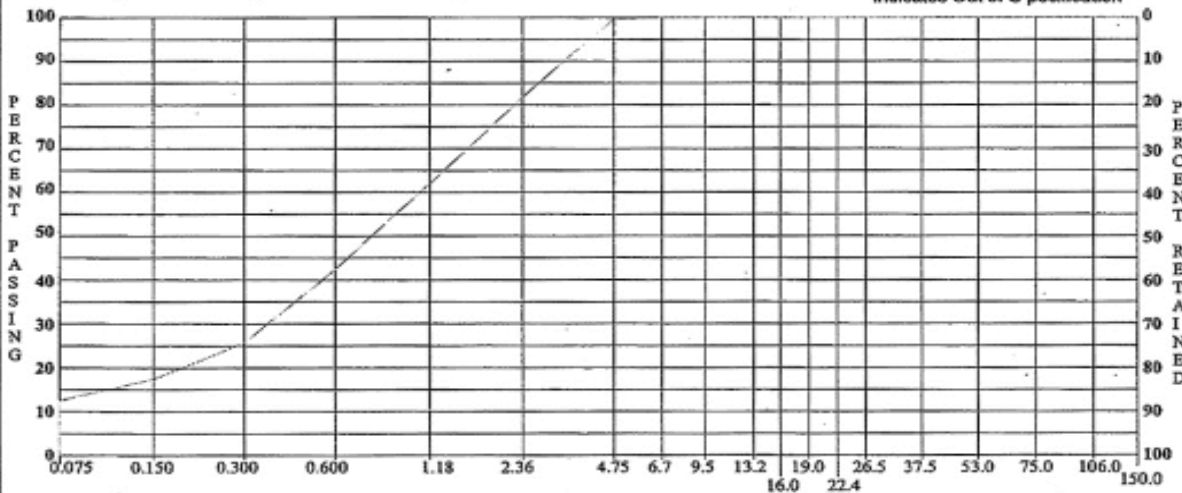
WASH PASS 0.075mm

TEST	Sample	Specs
Wash Pass 0.075 mm:	0.0	
FINENESS MODULUS	2.71	

Comments:

Sample: _____ Specs: _____

* Indicates Out of Specification



End of Section