1. **SCOPE**

1.1. **Description of Test**

This method describes the procedure for determining the gradation requirements and specifications applied to the manufacture of pulverized high calcium quicklime to be used for the stabilization, modification, or drying of soils and soil aggregate mixtures.

1.2. **Application of Test**

The test result will be used to determine whether or not the material meets the Specification for Manufactured Materials SMM 402-1 PULVERIZED QUICKLIME.

2. **APPARATUS AND MATERIALS**

2.1. **Equipment**

Sampling tube and containers.

Balance, sensitive to 0.1 g.

Sieves, Canadian Metric Standard 2.0 mm and 160 mm size.

Mechanical sieve shaker.

3. **PROCEDURE**

3.1. **Test Procedure**

Obtain a representative sample as per STP-120.

Mix samples thoroughly.

Weigh 100 g sample

Place sample on top sieve, put sieves in mechanical shaker, and shake for five minutes.
Weigh material in the pan below the 160 mm sieve and record as the weight passing this sieve. Add the material resting on the 160 mm sieve to the material on the balance pan and record the total as the weight passing the 2.0 mm sieve.

4. RESULTS AND CALCULATIONS

4.1. Calculations

Calculate the percent passing the 2.0 mm and 160 um sieve by dividing the weight of material passing each sieve by initial weight of the test sample (ie presumably 100 g).

4.2. Reporting Results

Report the percent passing each sieve on the enclosed form.

5. ADDITIONAL INFORMATION

5.1. Precaution

Avoid contact with skin, eyes and clothing as lime is caustic and may cause severe burns.

5.2. Reference

- ASTM C-110
SIEVE ANALYSIS OF LIME

WEIGHT OF TEST SAMPLE

<table>
<thead>
<tr>
<th>WEIGHT OF TEST SAMPLE AND TARE</th>
<th>WEIGHT OF TARE</th>
<th>WEIGHT OF TEST SAMPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

GRADATION OF TEST SAMPLE

<table>
<thead>
<tr>
<th>SIEVE</th>
<th>WEIGHT PASSING</th>
<th>PERCENT PASSING</th>
<th>SPEC.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0 mm</td>
<td></td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td>160 µm</td>
<td></td>
<td>85% minimum</td>
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</tbody>
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REMARKS

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TECHNICIAN _______________ DATE __________

FIGURE 209-2-1
New ___ Revision  X ___ Date of Previous Document  91-05-16
Effective Date: ___ - ___

Description of Revision (Reason for Revision):
- Format of test procedure updated.

Review/Implementation Process:
- Reviewed by the Materials Section of the Technical Standards and Policies Branch.

Other Manuals/Policies Affected:
Nil

Follow Up/Training Required:
Nil

Comments/Concerns/Implications (Budget/Environment/Stakeholders):

Prepared and Recommended by  D. MacLeod  92-05-15
Quality Control Engineer Date

Approval Recommended by  R.A. Widger  92-07-21
Senior Materials Engineer Date

Approval Recommended by  A.R. Gerbrandt  92-07-23
Dir., Technical Standards & Policies Br. Date

Approved by  D.G. Metz  92-07-25
Assistant Deputy Minister, Infrastructure Date

Electronic File Updated  94-03-10
Update Mailed - -