General Remarks. The unexpectedly large number of contributions to the Conference and the fact that the majority of authors, particularly of some of the most valuable papers, have partially disregarded one or the other of the conditions for contributions to the Conference, have made the work of the Editorial Board very difficult. Since the majority of papers arrived after April 15th, and this volume had to be ready by the middle of May (to make it possible for participating members from Europe to receive their copies before their departure), the resources of the Editorial Board and of its clerical staff have been taxed to the limit in preparing the volume for publication. The short time available made planograph reproduction the only possible method to use. The reader's indulgence is requested for mistakes that may have occurred. The Secretary of the Conference will greatly appreciate being informed of necessary corrections. All corrections will be included in the last volume of the Proceedings.

It was soon realized that it would be physically impossible to publish in so short a time all papers submitted. Therefore, it was decided to print about one third of the contributions in a second volume, which is to be ready just prior to the Conference. Volume II will contain the entire Section 'A', which comprises all "Reports from Soil Mechanics Laboratories on Testing Apparatus, Technique of Testing and Investigations in Progress". In addition, Volume II will include contributions which were delayed in their arrival, and papers which so grossly conflicted with the conditions in regard to length or language requirements that it was necessary to request the authors to submit them in a revised form. Volume III, containing the Discussions and additional contributions of special merit, will not be printed before August of this year.

The order in which the papers are printed essentially coincides with the order of arrival. In some instances it was chosen for technical reasons to facilitate and speed up the preparation of this volume. Papers which represent contributions to more than one section, if submitted as one unit, are classified in that section to which the contribution seemed to add most. The last section contains chiefly papers which, for technical reasons, were not ready for printing at the time the respective sections were closed, in the editing of the papers only important mistakes in syntax or the use of words, which might lead to misunderstanding, were corrected.

Discussions. This volume will reach most of the Members sufficiently in advance of the Conference to permit study of the contributions and preparation of discussions. It is particularly desirable that Members, (and also non-members) who have not contributed papers to the Conference and who have had extensive experience in one or the other of the subjects covered by the Conference, participate in the discussions, either in oral or written form. Written discussions must reach the Secretary not later than August 1, of this year.

A brief introductory remark should clearly define the subject of the discussion. It should be stated whether additional information is furnished of a nature not yet presented in the contributions, whether the information supports and supplements material already presented, or whether the discussion contains information that contradicts statements contained in a paper. In the latter case all differences in the conditions, particularly as to the character of the soil, should be emphasized, to permit a reader to formulate his conclusions.

All discussions should be specific, presented in a concise style, and must not exceed 1200 words. It is requested that generalities (complimentary remarks or otherwise) be omitted.

Complete Papers have been submitted by only a limited number of authors. It is, at present, not possible to say which of the contributions, contained in this volume, will be available in a more detailed form. Authors were requested to send one copy each of their complete papers, in English, French or German, to the following addresses:

1) Professor F. Schaffernak, Technische Hochschule, Vienna, Austria
2) Mr. Aage Nielsen, 77 Raadhusplads, Kopenhagen, Denmark
3) Mr. S. Tschebotareff, The Foundation Soils Research Laboratory, Egyptian University, Giz-Cairo, Egypt
4) Dr. Oscar Faber, President of Structural Engineers, 10 Upper Belgrave Str., London S.W.1, England
5) Mr. K. Langer, Laboratoire d'Etude du Sol et des Fondations, Ministere de l'Educacion Nataionale, 12 Rue Brancion, Paris XV, France
6) Professor A. Agatz, Technische Hochschule, Berlin, Germany
7) Mr. Giovanni Rodio, Corso Venezia 11, Milano (3) Italy
8) Professor N. M. Gerevanoff, Soljanka, 11 "WOG", Moscow, USSR
9) Two copies should be sent to the Secretary of the Conference, U. S. A.

These addresses represent the centers from which the full papers may be borrowed. It is evident that such centers could not be established in every country. However, it is believed that their locations are conveniently chosen.

It is suggested that Members and Absentee Members of the Conference or other interested persons who wish to borrow such papers, should send their request to the nearest of the above addresses. It is urgently requested that these papers should not be kept longer than one week, so that as many as possible may have an opportunity to study them prior to the Conference. Their primary purpose is to stimulate the contribution of discussions. Arrangements will also be made to permit the loan of these papers to interested persons after the Conference.

Cost of Proceedings. In view of the fact that the printing costs for the entire three volumes will be more than double those estimated, the Committee on Organization has decided that the registration fee for Conference members applying after May 15, 1936 shall be ten dollars, and that this shall also be the price for sale of any sets of the Proceedings which may remain after all the members of, and contributors to, the Conference have been supplied. Contributors of papers to the Conference, who are not members thereof, may purchase one set of the Proceedings for five dollars but must pay ten dollars per set for all additional sets desired.

Reprints. Many requests for reprints have been received. On account of technical difficulties, particularly the large variation in number of reprints desired, they cannot be printed at the same time as the Proceedings, but will be ordered after the Conference. A notice will be sent to all contributors informing them of the cost of reprints.

Cambridge, Massachusetts
May 5, 1936

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FOREWORD

General Information. In addition to the general remarks and the information on reprints contained in the Foreword of Volume I, the Editorial Board wishes to announce that a number of contributions submitted in languages other than English could not be accepted for publication. The only exceptions were descriptions of Soil Mechanics Laboratories. For these reports the rule that all contributions must be in English was disregarded, in order to permit the presentation as complete a record as possible on the existing Soil Mechanics Laboratories. From several laboratories no reports were submitted and therefore such laboratories are not represented in this volume.

Since a number of contributions to Section "A" followed the outline suggested in the original printed information for contributors, the outline is repeated here to acquaint the reader with the arrangement of many of these reports.

5. Soil Testing Procedures:
(a) Tools and procedures for taking undisturbed samples. Dimensions of samples. (To be omitted if separate report is submitted for division "Exploration of Soil Conditions and Sampling Operations."
(b) Field testing methods. Loading tests, usual size of loaded area, loading tests in holes; vibration methods; etc.
(c) Laboratory testing methods for tests outlined in (a).

Note: For points (a) and (b) give references to publications describing apparatus and procedures. If such references are not available, give short description, including drawings. Always state dimensions of soil samples used.

6. Short description of the most important types of soils in the working region of the laboratory, including geological name, natural water content, Atterberg limits, compressive strength in the undisturbed and remolded states, etc. (To be omitted if separate report is submitted for division "Regional Soil Studies for Engineering Purposes."

7. Short statement of the subjects of scientific investigations. When performed? Where published? If still in progress, approximate date when investigation will be finished with brief statement of most important results found so far.

8. Short statement of the most important practical investigations. Subject, types of soils encountered, most important results.

9. Observations on existing structure under the direction of the laboratory. Customary number of observation points, type of observation points on the structure and in the ground, methods for surveying the points. Type and number of observed structures.

10. Experience regarding the difference between predicted and observed behavior of structures. Empirical rules which were derived from such studies.

Complete Papers. Among the contributions contained in Volumes I and II of the Proceedings, the following twenty papers have been submitted in a more complete form. Copies of these papers have been sent to the addresses listed in the Foreword of Volume I, and may be borrowed by any one interested in them.

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Discussions. It is hoped that experienced engineers (including non-members) who have not yet contributed papers to the Conference, and who are in possession of additional valuable information on the many subjects covered by the contributions to the Conference, will make them available in form of written discussions, to be published in Volume III of the Proceedings.

Written discussions must reach the Secretary not later than August 15, 1956, should be presented in a concise style, and should not exceed 1200 words in length. No restriction is placed on the number of necessary tables and figures. It is requested that generalities (complimentary remarks or otherwise) be omitted. A brief introductory statement should clearly define the subject of the discussion. It should be stated whether additional information is furnished of a nature not yet presented in the contributions, whether the information is intended to support or supplement material already presented in theProceedings, or whether the discussion contains information that contradicts statements contained in one or several contributions. In the latter case all differences in the conditions, particularly as to the character of the soil, should be emphasized to permit the reader to formulate his conclusions.

Volume III will be ready for distribution in September 1956.

Cambridge, Massachusetts June 12, 1956

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Corrections and Additions for Vol I and II

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<td>C-1</td>
<td>I</td>
<td>23</td>
<td>Should read 0.4 to 1.4 kg/cm²</td>
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<td>C-3</td>
<td>I</td>
<td>31</td>
<td>The Plasticity Index in column #1 should read 60.1.</td>
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<tr>
<td>D-1</td>
<td>I</td>
<td>33</td>
<td>The author of this paper, Dipl. Ing. G. Tsohebotareff, is Research Engineer in the Foundation Soils Research Laboratory, Faculty of Engineering, Egyptian University, Giza, Cairo.</td>
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<td>D-1</td>
<td>I</td>
<td>34</td>
<td>Should read Kamal Khalifa Eff.</td>
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<td>D-4</td>
<td>I</td>
<td>48</td>
<td>Should read q = q₀</td>
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<tr>
<td>D-4</td>
<td>I</td>
<td>50</td>
<td>Should read ( \frac{a}{p} = 3 + \frac{a}{p} )</td>
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<tr>
<td>D-4</td>
<td>I</td>
<td>50</td>
<td>Should read ( \epsilon + \frac{a}{1+2\frac{3}{2}} (R+S+U) = \text{const.} )</td>
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<td>D-6</td>
<td>I</td>
<td>53</td>
<td>The position of the two X-ray photographs should be reversed. In Table II reference should be made to Fig. 3 instead of Fig. 2.</td>
</tr>
<tr>
<td>D-13</td>
<td>II</td>
<td>133</td>
<td>The investigation was carried out with a grant of $500 which the Harvard Graduate School of Engineering received from the Committee on Earths and Foundations of the American Society of Civil Engineers of which Mr. Lazarus White is Chairman.</td>
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<tr>
<td>E-10</td>
<td>II</td>
<td>159</td>
<td>For the three equations at the bottom of this page the quantity appearing under the radical should be ( \sqrt{\frac{1}{4} (\sigma_x - \sigma_z)^2 + \tau_x z} )</td>
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<td>F-6</td>
<td>I</td>
<td>100</td>
<td>Paragraph 3. The sentence should read &quot;The bridge is a double leaf bascule span&quot;.</td>
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<td>G-2</td>
<td>I</td>
<td>134</td>
<td>Fig. 1. The legends in German for L₀ and L₁ are reversed and should be revised to correspond with the facts and with the English legends.</td>
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<td>137</td>
<td>Fig. 15 should read Fig. 14. Titles for Figs. 14; and 15 are reversed.</td>
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<td>G-5</td>
<td>I</td>
<td>150</td>
<td>&quot;Deduced&quot; should read deduced.</td>
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<td>G-8</td>
<td>II</td>
<td>199</td>
<td>Should read ( c + \frac{P a}{B L^2} )</td>
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<tr>
<td>G-8</td>
<td>II</td>
<td>199</td>
<td>Should read ( p = 2 (\pi + 2) c )</td>
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<tr>
<td>G-8</td>
<td>II</td>
<td>200</td>
<td>Should read ( c = \frac{P a}{B L (L + \pi a)} = \frac{P a}{B L^2 \left(1 + \frac{\pi a}{L}\right)} )</td>
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<td>J-1</td>
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<td>207</td>
<td>Formula (2) should read as follows: ( h = \frac{3}{2\pi} \cdot P \cdot \frac{\tau^2}{\tau^5} ) (when ( m = 2 ))</td>
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<tr>
<td>M-1</td>
<td>I</td>
<td>263</td>
<td>Add the following: All the operations at the Assiut Dam were carried out by Messrs. Cochran of London, and the injection work was subcontracted to the Francois Cementation Co., in Doncaster, Great Britain.</td>
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<tr>
<td>M-3</td>
<td>I</td>
<td>274</td>
<td>Should read &quot;Atterberg's liquid limit and the angle of internal friction are decreased by treatment. &quot;</td>
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