University of Illinois

UNIVERSITY ARCHITECT'S OFFICE
605 East Green Street · Champaign, Illinois 61822 · Telephone 333-1690

July 27, 1966

LIBRARY AIR-CONDITIONING CENTER

Dr. H. O. Ireland
207 Talbot Laboratory

One check set of working drawings and specifications, dated July 22, 1966, for Phase II of this project are furnished herewith for your review and comment.

These are scheduled to be issued to bidders on August 16, 1966, and bids are to be received September 13, 1966.

Incorporation into the documents of any corrections or modifications would be facilitated if these could be received by August 9, 1966.

We should particularly appreciate your advice if you have any question of the use of spread footings for the conditions indicated. Columns and footings are designed to provide for future construction above comparable to that of the Library Seventh Addition (basement and four floors) with 100#/sf live loads on floors.

C. H. Oliver

CHO:lk
Enclosure
Dr. H. O. Ireland  
207 Talbot Laboratory  

We have questioned the inclusion in the specifications for this project of requirements for well pointing (Paragraph 2-08H, page 11, of the Supplementary General Conditions) taken from the specifications for the Undergraduate Library, which were used as a guide in writing this part of the specifications.

The requirement for piezometers, included in the specifications for the Undergraduate Library because of its proximity to the Morrow Plots, apparently has no relevance to this project and should be omitted.

The requirement to operate the well point system to maintain a water table not higher than Elev. 700.0 USGS is also specifically related to the Undergraduate Library. For the Library Air Conditioning Center, we assume that a comparable elevation would be that of the lowest sump excavation, which would be approximately Elev. 721.00 USGS.

The much smaller scope and less depth of excavation required for this project give rise to question whether well pointing should be required at all.

We should particularly appreciate your comment on this point as well as on the footing design question noted in my letter of July 27.

CHO:lk  
cc: Mr. S. A. Dahlstrom  
Mr. C. L. Sands
REQUISITION

TO THE DIRECTOR OF PURCHASES

(See Instructions on Back)

PURCHASING DIVISION
203 ADMINISTRATION BLDG. E.
URBANA, ILLINOIS

REQUISITION
TO THE DIRECTOR OF PURCHASES

ACCOUNT NO. 15-82-01-912
ACCOUNT TITLE: Undergraduate Library

DEPT. CODE & SECTION: 1861
REQ. NO.: 3/31/66

Department Requisitioning: University Architect's Office - Physical Plant Department

Deliver To: University Architect's Office 704 S. Sixth St.

Not Later Than: Call N. W. Nester Ext. 3-1695 For Additional Information.

DELIVERY

Deliver To: Room Number

Physical Plant

Delivered By

APR 5 1966

cc: Mr. C. H. Oliver

Suggested Vendor(s) (If Available) and Special Instructions

Talbot Lab. Att: Dr. H. O. Ireland

I hereby certify that there is an unobligated balance available for the above expenditures in the appropriation indicated.

Requested by

Approved by

Approved by

BUSINESS OFFICE

Chief Accountant

Comptroller

Buyer

Director of Purchases

Form #100 2/62

Estimated Unit Cost (If Available) Estimated Total Cost (If Available) P. O. Number

Furnish data evaluation for 2 test borings (#338,339) delivered by Raymond Concrete Pile Company from Library Cooling Center.

Estimated number of samples - 24

$36.00
SIXTH St.

GREGORY DR.

42.0'

25.5'

45.9

742.74

43.8

742.45

14.0

NORTH

TEST BORING LOCATION

LIBRARY COOLING CENTER

31 MAR 66

N W N
BORING NOTES

1. The attached notes show the approximate locations of the proposed borings and slight relocations are permissible where interferences are encountered.

2. Elevations shown are University of Illinois datum as corrected in January 1966.

3. Holes are to be 40.0 feet in depth.

4. The following information will be supplied by the boring firm:
   
a. A log of each boring showing the type of different strata, the thickness of each strata and the distance below the ground surface of each strata.
   
b. The number of blows to drive a sampling pipe one foot for each strata.
   
c. The elevation at which ground water level is encountered in each hole.

5. The boring firm will furnish split spoon samples taken at \(2\frac{1}{2}'\) intervals to twenty foot depth and at 5.0' intervals the balance of the boring to final depth. Samples shall be in duplicate, one set being delivered to Dr. Ralph Peck at Talbot Lab. on the University of Illinois campus, and one set being delivered to Associated Engineers, Inc. 505 W. Nebraska Ave., Peoria, Illinois 61604.

# EXPLORATORY BORING DATA SHEET

**Date**: 4-10-62  
**Location**: LIBRARY COOLING CENTER  
**Operator**: CHH  
**Ground Surface Elevation**:  

**Legend**: Depths and Elevations in feet  
Strength is Compressive strength in tons per sq. ft.

## Bor. Samp. Depth Elev. N Strength Test Est. w LL PL Cont. Description

<table>
<thead>
<tr>
<th>Bor. Samp.</th>
<th>Depth</th>
<th>Elev.</th>
<th>N</th>
<th>Strength Test Est.</th>
<th>w</th>
<th>LL</th>
<th>PL</th>
<th>Cont.</th>
<th>Description</th>
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<td>338</td>
<td>2.5</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>TOPSOIL, organic fibrous silty CLAY</td>
</tr>
<tr>
<td>7</td>
<td>5.0</td>
<td>3</td>
<td></td>
<td>3.0</td>
<td>26.1</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>3</td>
<td>7.5</td>
<td>3</td>
<td></td>
<td>3.0</td>
<td>15.8</td>
<td></td>
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</tr>
<tr>
<td>4</td>
<td>10.0</td>
<td>3</td>
<td></td>
<td>3.0</td>
<td>15.3</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>5</td>
<td>12.5</td>
<td>6</td>
<td></td>
<td>3.0</td>
<td>14.3</td>
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</tr>
<tr>
<td>6</td>
<td>15.0</td>
<td>8</td>
<td>2.1</td>
<td>14.3</td>
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</tr>
<tr>
<td>7</td>
<td>17.5</td>
<td>11</td>
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<td>3.0</td>
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<tr>
<td>8</td>
<td>20.0</td>
<td>10</td>
<td>5.1</td>
<td>11.2</td>
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<td>11</td>
<td>4.3</td>
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<td></td>
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<tr>
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<td>25.0</td>
<td>12</td>
<td>3.9</td>
<td>12.1</td>
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<tr>
<td>11</td>
<td>35.0</td>
<td>17</td>
<td></td>
<td>4.0</td>
<td>11.8</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>12</td>
<td>40.0</td>
<td>13</td>
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<td>12.7</td>
<td></td>
<td></td>
<td></td>
<td>&quot; &quot; &quot; &quot;</td>
</tr>
</tbody>
</table>

| 239        | 2.5   | 4     |   |                   |   |    |    |       | TOPSOIL, granular FILL particles |
| 2          | 5.0   | 6     |   |                   |   |    |    |       | " " " " |
| 3          | 7.5   | 5     |   | 3.0               | 27.3|    |    |       | " " " " |
| 4          | 10.0  | 3     |   | 3.0               | 16.7|    |    |       | " " " " |
| 5          | 12.5  | 8     | 4.7| 14.0              |    |    |    |       | " " " " |
| 6          | 15.0  | 5     | 1.9| 14.0              |    |    |    |       | " " " " |
| 7          | 17.5  | 10    | 2.4| 11.1              |    |    |    |       | " " " " |
| 8          | 20.0  | 11    |   | 2.0               | 10.8|    |    |       | " " " " |
| 9          | 25.0  | 12    | 6.2| 11.5              |    |    |    |       | " " " " |
| 10         | 30.0  | 15    | 3.5| 15.6              |    |    |    |       | " " " " |
| 11         | 35.0  | 24    | 4.7| 12.6              |    |    |    |       | " " " " |
| 12         | 40.0  | 16    | 3.5| 12.0              |    |    |    |       | " " " " |
To UNIVERSITY OF ILLINOIS, UNIVERSITY ARCHITECT'S OFFICE
Address 605 EAST GREEN STREET, CHAMPAIGN, ILLINOIS 61820

We have completed the following boring for you at UNIVERSITY OF ILLINOIS, LIBRARY COOLING CENTER, URBANA, ILLINOIS, with results shown below. In accordance with your instructions, we have sent labelled samples of the strata encountered.

Raymond International Inc. LOCATION PLAN SCALE 1" = NO SCALE

SIXTH ST.

This boring report prepared in the CHICAGO OFFICE of the Raymond Concrete Pile Division RAYMOND INTERNATIONAL INC.

By W M O
Job No. CB-4848-0
Sheet 1 of 2
To UNIVERSITY OF ILLINOIS  
Date 13 APRIL 1966

Location of Borings UNIVERSITY OF ILLINOIS, LIBRARY COOLING CENTER, URBANA, ILLINOIS

All borings are plotted to scale of 1" = 8 ft. using ELEVATIONS SUPPLIED as a fixed datum.

Boring No. 338  
Boring No. 339  
Boring No.

<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>740'</td>
<td>BLACK &amp; BROWN SILT &amp; CLAY FILL</td>
</tr>
<tr>
<td>730'</td>
<td>SOFT BROWN CLAYEY SILT</td>
</tr>
<tr>
<td>720'</td>
<td>LOOSE BROWN MIXTURE OF SAND, SILT &amp; CLAY WITH SOME GRAVEL</td>
</tr>
<tr>
<td>710'</td>
<td>STIFF BROWN CLAYEY SILT, SOME SMALL GRAVEL</td>
</tr>
<tr>
<td>700'</td>
<td>STIFF GREY, VERY CLAYEY SILT, SOME GRAVEL</td>
</tr>
<tr>
<td>690'</td>
<td>STIFF GREY-BROWN VERY SILTY CLAY WITH SMALL TO MEDIUM GRAVEL, SOME SILT SEAMS</td>
</tr>
</tbody>
</table>

USED NO CASING  
4/4/66

USED NO CASING  
4/4/66

Classifications are made from visual inspection.

Water Levels (WL). Figure indicates time of reading (hours) after completion of boring. Water levels indicated are those observed when borings were made, or as noted. Porosity of the soil strata, variations of rainfall, site topography, etc., may cause changes in these levels.

Figures in right hand column indicate number of blows required to drive 2" O.D. sampling pipe one foot, using a 140 lb. weight falling 30 inches.

Total Footage 80'0"

Foreman HERSCHEL BOYD
Classifications by FOREMAN
Job No. B 08-4848-C
Sheet 2 of 2
April 13, 1966

CB-4848-C
University of Illinois
Library Cooling Center
Urbana, Illinois

University of Illinois
University Architect's Office
605 East Green Street
Champaign, Illinois 61822

Attention: Mr. N. W. Nester

Gentlemen:

We are enclosing herewith seven copies of our final boring report covering the test borings we recently completed for you at the above site.

We sincerely appreciate this opportunity of again serving you and trust that our work is in order. If additional copies of this report are needed or if we can be of any further assistance to you in any way, please don't hesitate to call on us.

Very truly yours,

RAYMOND CONCRETE PILE DIVISION
Raymond International Inc.

G. J. Higgins

GJH:dk
enc: (7)
cc: Associated Engineers, Inc., 505 W. Nebraska Avenue, Peoria, Illinois 61604, W/1 enc.
Dr. Ralph B. Peck, U of I - 113 Talbot Laboratory, Urbana, Illinois W/1 enc.
March 31, 1966

LIBRARY COOLING CENTER

Raymond Concrete Pile Co.
111 West Monroe St.
Chicago, Illinois 60603

Attention: Mr. G. J. Higgins

Dear Mr. Higgins:

I have asked the foreman of the drilling rig now making borings at the Intramural Recreation site to move to the Library for 2 additional borings after he has completed the Intramural Recreation work. I have provided him with the attached sketch and instructions.

Will you please bill Associated Engineers, Inc. at 505 West Nebraska Ave., Peoria, Illinois, 61604 for the additional drilling services and send a copy of the bill to the University of Illinois, addressed to my attention?

Very truly yours,

[Signature]

N. W. Nester

cc: Mr. C. H. Oliver
    Associated Engineers, Inc.
    Prof. H. O. Ireland

enc.