Amendment Report No. L-08-3304

P. John Chancellor, P.E.
Vice-President and General Manager

June 09

Field Services Manager

M. O. O'fiee

SMITH-EMERY LABORATORIES, INC.

Respectfully submitted,

Please do not hesitate to contact us at (213) 745-5333.

We appreciate this opportunity to be of service to you. If you have any questions regarding this report,
read the entire report.

The accompanying Report Number L-08-3304 presents a description of the testing performed and the
purposes of our testing was to test materials in accordance with our Proposal No. 10230-1.

In accordance with your request a series of testing has been completed for the project referenced above as

Mr. Segal

Glendale, CA

Referenced Project: Glendale Child Care

Subject: Remaining Final Test Panel Testing

Burbank, CA 91521

500 S. Buena Vista Street

Display Core Services

Larry Segal

independent Commercial Testing Laboratory

SMITH-EMERY LABORATORIES

Project No.: 38186-2
December 13, 2008

Received

Inception Development Associates, Inc.

January 0, 2009
SMITH - EMERY LABORATORIES, INC.
781 E. WASHINGTON BLVD. • LOS ANGELES, CA 90021
(213) 745-5333 – PHONE • (213) 749-7232 – FAX

REPORT OF: GLENDALE CHILD CARE
RAMMED EARTH TEST PANEL TESTING

PREPARED FOR: LARRY SEGAL
DISNEY CORE SERVICES
500 S. BUENA VISTA STREET
BURBANK, CA 91521

PROJECT NUMBER: 38186-2
REPORT NUMBER: L-08-3304
REPORT DATE: 12/15/08
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1.00 INTRODUCTION

1.01 Purpose

The purpose of our testing was to test materials in accordance with our Proposal No. 102308-1.

1.02 Scope of Testing

The general scope of this testing program included determining the following properties of the material provided:

Panel #1:
Provide three (3) tests for each of the following:
   a. Compressive Strength Test per ASTM C39
   b. Modulus of Elasticity per ASTM C469
   c. Splitting Tensile Strength Test per ASTM C496
   d. Ultimate Shear Strength along lift line.

Panel #2:
   a. Test all bars in tension to failure for a total of six (6) rebar.
   b. Report test load and failure mode.

1.03 Sample Description

The 12 core samples that were received consisted of a nominal 4-inch diameter and of various lengths. The 6 rebar samples were embedded in ram earth test panel.

1.04 Test Methods

The testing was performed in general accordance with the following standard:

- **ASTM C39**: Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens
- **ASTM C469**: Standard Test Method for Static Modulus of Elasticity and Poisson’s Ratio of Concrete in Compression
- **ASTM C496**: Standard Test Method for Splitting Tensile Strength of Cylindrical Concrete Specimens

Where modifications to test standards and guidelines were necessary at the time of testing, testing was performed in general accordance with accepted engineering principles and practices.

The above procedure have incorporated federal, state and local laws, codes, ordinances and regulations, which in our professional opinion are applicable at the time of preparation of this report. Definitions of technical terms and symbols used in this report are those of the American Society for Testing and Materials E6-89, Standard Terminology Relating to Methods of Mechanical Testing.
The scope of work is presented in Appendix G.

2.0.7 Scope of Work

The photos are presented in Appendix F.

2.0.6 Photos

The results of the reinforcing steel pull test are presented in Appendix E.

2.0.5 Reinforcing Steel Pull Test

The results of the modulus of elasticity test are presented in Appendix D.

2.0.4 Modulus of Elasticity Test

The results of the splitting tensile strength test are presented in Appendix C.

2.0.3 Splitting Tensile Strength Test

The results of the shear strength test are presented in Appendix B.

2.0.2 Shear Strength Test

The results of the compressive strength test are presented in Appendix A.

2.0.1 Compressive Strength Test

2.0.0 Results
3.00 CONCLUSIONS AND CLOSURE

3.01 Conclusion

We make no statement of compliance or noncompliance to any specification. All findings noted in this report were prepared in accordance with generally accepted material engineering and testing principles and practices. No other warranty, either expressed or implied, is made.

3.02 Closure

This report has been prepared for Disney Core Services to be used in evaluation and/or design purposes only. The use of this report for any other purposes shall be at the user’s own discretion based on their own interpretation of the results contained within.

Respectfully Submitted,

Jaime Ordonez
Field Services Manager

P. John Paliolait, P.E.
Vice-President and General Manager
Compressive Strength Test

Appendix A
### REPORT OF TESTS

<table>
<thead>
<tr>
<th>Test No.</th>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laboratory Core No.:</td>
<td>6821</td>
<td>6822</td>
<td>6823</td>
</tr>
<tr>
<td>Date of Core:</td>
<td>12/2/08</td>
<td>12/2/08</td>
<td>12/2/08</td>
</tr>
<tr>
<td>Date Tested:</td>
<td>12/6/08</td>
<td>12/6/08</td>
<td>12/6/08</td>
</tr>
<tr>
<td>Age, Days:</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Moisture Condition (1):</td>
<td>Moisture Preserved</td>
<td>Moisture Preserved</td>
<td>Moisture Preserved</td>
</tr>
<tr>
<td>Length Received, ins.:</td>
<td>5.49</td>
<td>5.29</td>
<td>4.90</td>
</tr>
<tr>
<td>Length Before Capping, ins.:</td>
<td>5.49</td>
<td>5.29</td>
<td>4.90</td>
</tr>
<tr>
<td>Length After Capping, ins.:</td>
<td>5.69</td>
<td>5.39</td>
<td>5.03</td>
</tr>
<tr>
<td>Diameter, ins.:</td>
<td>3.71</td>
<td>3.69</td>
<td>3.69</td>
</tr>
<tr>
<td>Cross-Sectional Area, sq. ins.:</td>
<td>10.81</td>
<td>10.69</td>
<td>10.69</td>
</tr>
<tr>
<td>Maximum Load, lbs.:</td>
<td>14,450</td>
<td>11,690</td>
<td>14,140</td>
</tr>
<tr>
<td>Compressive Strength, psi:</td>
<td>1,337</td>
<td>1,094</td>
<td>1,323</td>
</tr>
<tr>
<td>Length to Diameter Ratio:</td>
<td>1.53</td>
<td>1.46</td>
<td>1.36</td>
</tr>
<tr>
<td>Strength Correction Factor:</td>
<td>0.962</td>
<td>0.955</td>
<td>0.943</td>
</tr>
<tr>
<td>Corrected Compressive Strength, psi (3):</td>
<td>1,290</td>
<td>1,040</td>
<td>1,250</td>
</tr>
<tr>
<td>Design, psi:</td>
<td>1,000</td>
<td>1,000</td>
<td>1,000</td>
</tr>
</tbody>
</table>

(1) The moisture condition at the time of testing.
(2) Nominal maximum size of concrete aggregate.
(3) Corrected for length to diameter ratio less than 1.75.

☐ Materials Tested Comply With Specifications.
☐ Materials Tested Did Not Comply With Specifications.
☐ No Established Criteria For Acceptable Limits.

Respectfully submitted,

SMITH-EMERY LABORATORIES

P. John Latiolait
Registered Civil Engineer No. C60312
Registration Expires: 06-30-10

CC: DISNEY CORE SERVICES; SMITH-EMERY LABORATORIES
Shear Strength Test

Appendix B
**SMITH-EMERY LABORATORIES**

An Independent Commercial Testing Laboratory

781 E. Washington Boulevard - 2nd Floor  Los Angeles, California 90021  (213) 745-5333  Fax (213) 749-7232

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Proej Job No.: 38186-2  
Lab No.: L-08-3304  

CLIENT: LARRY SEGAL  
DISNEY CORE SERVICES  
500 S. BUENA VISTA STREET  
BURBANK, CA 91521

PROJECT: GLENDALE CHILD CARE  
1300 S. FLOWER STREET  
GLENDALE, CA

SUBJECT: Shear Strength Test on Soil Cement Core Specimens.  
SOURCE: Picked up by Smith-Emery Laboratories Representative on December 2, 2008.  
STANDARD: ASTM C 42-94 "Strength Method of Obtaining and Testing Drilled Cores and Sawed Beams of Concrete."

Location in structure: Rammed Earth Test Panel  
Identification: Soil Cement Cores

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### REPORT OF TESTS

<table>
<thead>
<tr>
<th>Test No.</th>
<th>Laboratory Core No.</th>
<th>Date of Core</th>
<th>Date Tested</th>
<th>Age, Days</th>
<th>Load Direction (1)</th>
<th>Moisture Condition (2)</th>
<th>Aggregate Size, ins. (3)</th>
<th>Length Received, ins.</th>
<th>Length Before Cupping, ins.</th>
<th>Length After Cupping, ins.</th>
<th>Diameter, ins.</th>
<th>Cross-Sectional Area, sq. ins.</th>
<th>Maximum Load, lbs.</th>
<th>Design psi</th>
<th>Shear Strength, psi</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>6818</td>
<td>12/2/08</td>
<td>12/6/08</td>
<td>N/A</td>
<td>Parallel to Lift Line</td>
<td>Moisture Preserved</td>
<td>3/4</td>
<td>8.00</td>
<td>-</td>
<td>-</td>
<td>3.70</td>
<td>10.75</td>
<td>930</td>
<td>1,000</td>
<td>87</td>
</tr>
<tr>
<td>2</td>
<td>6819</td>
<td>12/2/08</td>
<td>12/6/08</td>
<td>N/A</td>
<td>Parallel to Lift Line</td>
<td>Moisture Preserved</td>
<td>3/4</td>
<td>11.00</td>
<td>-</td>
<td>-</td>
<td>3.70</td>
<td>10.75</td>
<td>760</td>
<td>1,000</td>
<td>71</td>
</tr>
<tr>
<td>3</td>
<td>6820</td>
<td>12/2/08</td>
<td>12/6/08</td>
<td>N/A</td>
<td>Parallel to Lift Line</td>
<td>Moisture Preserved</td>
<td>3/4</td>
<td>11.00</td>
<td>-</td>
<td>-</td>
<td>3.70</td>
<td>10.75</td>
<td>850</td>
<td>1,000</td>
<td>83</td>
</tr>
</tbody>
</table>

---

Respectfully submitted,  
SMITH-EMERY LABORATORIES

[Signature]

P. John Latifa
Registered Civil Engineer No. C60312  
Registration Expires: 06-30-10

---

(1) Direction of application of the load on the specimen with respect to the horizontal plane of the concrete as placed.  
(2) The moisture condition at the time of testing.  
(3) Nominal maximum size of aggregate in grout.

☐ Materials Tested Comply With Specifications.  
☐ Materials Tested Did Not Comply With Specifications.  
☐ No Established Criteria For Acceptable Limits.

---

CC: DISNEY CORE SERVICES; SMITH-EMERY LABORATORIES
Appendix C

Splitting Tensile Strength Test
REPORT OF TESTS

<table>
<thead>
<tr>
<th>Test No.</th>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laboratory Core No.</td>
<td>6824</td>
<td>6825</td>
<td>6826</td>
</tr>
<tr>
<td>Date of Core</td>
<td>12/7/08</td>
<td>12/7/08</td>
<td>12/7/08</td>
</tr>
<tr>
<td>Date Tested</td>
<td>12/6/08</td>
<td>12/6/08</td>
<td>12/6/08</td>
</tr>
<tr>
<td>Age, Days</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Moisture Condition</td>
<td>Moisture Preserved</td>
<td>Moisture Preserved</td>
<td>Moisture Preserved</td>
</tr>
<tr>
<td>Aggregate Size, ins.</td>
<td>3/4</td>
<td>3/4</td>
<td>3/4</td>
</tr>
<tr>
<td>Length Received, ins.</td>
<td>5.10</td>
<td>5.60</td>
<td>5.50</td>
</tr>
<tr>
<td>Length of Test Specimen, ins.</td>
<td>5.08</td>
<td>5.56</td>
<td>5.34</td>
</tr>
<tr>
<td>Diameter, ins.</td>
<td>3.69</td>
<td>3.69</td>
<td>3.69</td>
</tr>
<tr>
<td>Maximum Load, lbs.</td>
<td>3,270</td>
<td>3,610</td>
<td>4,440</td>
</tr>
<tr>
<td>Splitting Tensile Strength, psi</td>
<td>110</td>
<td>110</td>
<td>140</td>
</tr>
</tbody>
</table>

Respectfully submitted,
SMITH-EMERY LABORATORIES

P. John Latoian
Registered Civil Engineer No. C60312
Registration Expires: 06-30-10

CC: DISNEY CORE SERVICES; SMITH-EMERY LABORATORIES
Appendix D

Modulus of Elasticity Test
<table>
<thead>
<tr>
<th>Test No.</th>
<th>Laboratory Core No.</th>
<th>Date of Core</th>
<th>Date Tested</th>
<th>Age, Days</th>
<th>Moisture Condition (1)</th>
<th>Aggregate Size, ins. (2)</th>
<th>Length Received, ins.</th>
<th>Length Before Capping, ins.</th>
<th>Length After Capping, ins.</th>
<th>Diameter, ins.</th>
<th>Cross-Sectional Area, sq. ins.</th>
<th>Maximum Load, lbs.</th>
<th>Compressive Strength, psi</th>
<th>Length to Diameter Ratio</th>
<th>Strength Correction Factor</th>
<th>Corrected Compressive Strength, psi (3)</th>
<th>Modulus of Elasticity, psi</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>6818</td>
<td>12/2/08</td>
<td>12/16/08</td>
<td>N/A</td>
<td>Moisture Preserved</td>
<td>3/4</td>
<td>6.50</td>
<td>6.50</td>
<td>6.60</td>
<td>3.75</td>
<td>11.04</td>
<td>16,741</td>
<td>1,516</td>
<td>1.76</td>
<td>1.000</td>
<td>1,580</td>
<td>710,000</td>
</tr>
<tr>
<td>11</td>
<td>6819</td>
<td>12/2/08</td>
<td>12/16/08</td>
<td>N/A</td>
<td>Moisture Preserved</td>
<td>3/4</td>
<td>5.00</td>
<td>5.00</td>
<td>5.10</td>
<td>3.75</td>
<td>11.04</td>
<td>16,287</td>
<td>1,475</td>
<td>1.36</td>
<td>0.943</td>
<td>1,390</td>
<td>740,000</td>
</tr>
<tr>
<td>12</td>
<td>6820</td>
<td>12/2/08</td>
<td>12/16/08</td>
<td>N/A</td>
<td>Moisture Preserved</td>
<td>3/4</td>
<td>4.80</td>
<td>4.80</td>
<td>4.90</td>
<td>3.75</td>
<td>11.04</td>
<td>11,704</td>
<td>1,060</td>
<td>1.31</td>
<td>0.937</td>
<td>990</td>
<td>490,000</td>
</tr>
</tbody>
</table>

(1) The moisture condition at the time of testing.
(2) Nominal maximum size of concrete aggregate.
(3) Corrected for length to diameter ratio less than 1.75.

- Materials Tested Comply With Specifications.
- Materials Tested Did Not Comply With Specifications.
- No Established Criteria For Acceptable Limits.

Respectfully submitted,
SMITH-EMERY LABORATORIES

P. John Latulait
Registered Civil Engineer No. C60312
Registration Expires: 06-30-10

CC: DISNEY CORE SERVICES, SMITH-EMERY LABORATORIES
APPENDIX E

REINFORCING STEEL PULL TEST
CLIENT: LARRY SEGAL  
DISNEY CORE SERVICES  
500 S. BUENA VISTA STREET  
BURLINGTON, CA 91521

PROJECT: GLENDALE CHILD CARE  
1300 S. FLOWER STREET  
GLENDALE, CA

SUBJECT: Rammed Earth Panel No. 2. Pull testing of No. 5 and No. 6 reinforcing steel to failure.

SOURCE: On-site testing performed by Smith-Emery Laboratories representatives on December 12, 2008.

Test Procedure: Using a bridge fixture as a reaction frame, a tensile force was applied to the reinforcing steel via a calibrated hydraulic system. The force was applied until failure. The maximum applied force and the failure mode were recorded.

REPORT OF TESTS

<table>
<thead>
<tr>
<th>Test No.</th>
<th>Rebar Size</th>
<th>Type of Dowel</th>
<th>Embedment Length, ins.</th>
<th>Maximum Load, lbs.</th>
<th>Failure Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>No. 5</td>
<td>Hook</td>
<td>17</td>
<td>17,220</td>
<td>Rebar Pulled Out</td>
</tr>
<tr>
<td>2</td>
<td>No. 5</td>
<td>Straight</td>
<td>36-1/2</td>
<td>15,670</td>
<td>Rebar Pulled Out</td>
</tr>
<tr>
<td>3</td>
<td>No. 5</td>
<td>Hook</td>
<td>17</td>
<td>21,390</td>
<td>Rebar Pulled Out</td>
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<tr>
<td>4</td>
<td>No. 6</td>
<td>Hook</td>
<td>20</td>
<td>23,110</td>
<td>Rebar Pulled Out</td>
</tr>
<tr>
<td>5</td>
<td>No. 6</td>
<td>Straight</td>
<td>40-1/2</td>
<td>20,500</td>
<td>Rebar Pulled Out</td>
</tr>
<tr>
<td>6</td>
<td>No. 6</td>
<td>Hook</td>
<td>20</td>
<td>15,580</td>
<td>Rebar broke inside at 90° and pulled out.</td>
</tr>
</tbody>
</table>

Respectfully submitted,

SMITH-EMERY LABORATORIES

[Signature]

P. John Latibarti  
Registered Civil Engineer No. C60312  
Registration Expires: 06-30-10

□ Materials Tested Comply With Specifications.  
□ Materials Tested Did Not Comply With Specifications.  
□ No Established Criteria For Acceptable Limits.

CC: DISNEY CORE SERVICES; SMITH-EMERY LABORATORIES
PHOTOS

APPENDIX P
Test set up for center hole 30 ton ram

Test set for side loader fixture with 2 - 10 ton ram
Picture after test was performed for # 5 rebar

3,100 psi
3,300 psi
2,500 psi
2,300 psi
1,100 psi

Reinforcement # 5

Project No.: 38186-2
Laboratory No.: L-08-3304
Picture after test was performed for #6 rebar
APPENDIX C

SCOPE OF WORK
TEXT PANEL NOTES:
1. TEST PANELS SHALL BE CONSTRUCTED USING THE SAME MATERIAL AND RAMMING EQUIPMENT AS FINAL WALL ASSEMBLY.
2. TEST PANELS SHALL BE CONSTRUCTED IN THE PRESENCE OF A SPECIAL INSPECTOR.
3. CURE TEST PANEL BY KEEPING FORM IN PLACE FOR 3 DAYS, THEN KEEPING WET WITH FINE SPRAY FOR 4 ADDITIONAL DAYS FOR A TOTAL OF 7 DAYS OF CURING. ALLOW TEST PANELS TO CURB FOR A TOTAL OF 28 DAYS BEFORE TESTING.
4. CORES AND OTHER SAMPLES SHALL BE MADE BY AN INDEPENDENT TESTING LABORATORY.
5. RAMMED EARTH DESIGN IS BASED ON A MINIMUM COMPRESSIVE STRENGTH OF 1000 PSI AT 28 DAYS.
6. REINFORCING STEEL SHALL BE PER ASTM A416, Grade B.
7. TEST PANEL 32 SHALL BE USED TO DETERMINE PROPERTIES OF RAMMED EARTH MATERIAL. TEST PANEL 32 SHALL BE USED TO DETERMINE REQUIRED EmbedMENT AND DEVELOPMENT LENGTHS FOR REINFORCING BARS.
8. AT TEST PANEL 32, REMOVE ADEQUATE NUMBER OF SAMPLES TO PROVIDE 3 TESTS FOR EACH OF THE FOLLOWING:
   A. COMPRESSIVE STRENGTH PER ASTM C39
   B. MODULUS OF ELASTICITY PER ASTM C469
   C. PULLOUT STRENGTH PER ASTM C39
   D. ULTIMATE SHEAR STRENGTH ALONG PHA LINES PER ASTM C469
   E. CORE TEST NOT REQUIRED OR OTHER APPROVED METHOD.
   All cores shall be drilled vertically as shown.
9. AT TEST PANEL 32, TEST ALL BARS IN TENSION TO FAILURE, REPORT TEST LOAD AND FAILURE MODE.

REINFORCING SCHEDULE

<table>
<thead>
<tr>
<th>BAR SIZE</th>
<th>EMBED LENGTH</th>
<th>STUD LENGTH</th>
<th>HOOK SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>#6</td>
<td>36&quot;</td>
<td>12&quot;</td>
<td>9&quot;</td>
</tr>
<tr>
<td>#8</td>
<td>42&quot;</td>
<td>12&quot;</td>
<td>9&quot;</td>
</tr>
</tbody>
</table>

RAMMED EARTH TEST - PANEL DETAIL
REFERENCES

APPENDIX H
APPENDIX H

REFERENCES

- ASTM C39: Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens
- ASTM C469: Standard Test Method for Static Modulus of Elasticity and Poisson's Ratio of Concrete in Compression
- ASTM C496: Standard Test Method for Splitting Tensile Strength of Cylindrical Concrete Specimens

END OF REPORT