



80 Leighton Road • Falmouth, Maine 04105

Office: 207.878.1751  
Fax: 207.878.1788  
e-mail: [adp@adpengineering.com](mailto:adp@adpengineering.com)

August 2, 2011

11028

Code Enforcement Officer  
389 Congress St  
Portland, ME 04101

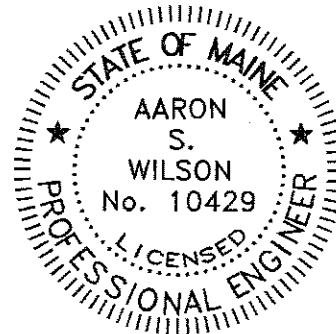
Re: Hale Trailer Addition, Portland, ME  
Statement of Special Inspections – Final Report

Dear CEO,

To the best of my information, knowledge and belief, the Special Inspections required for this project, and itemized in the *Statement of Special Inspections* submitted for permit, have been performed and all discovered discrepancies have been reported and resolved.

Sincerely,

Aaron S. Wilson, P.E.  
Structural Engineer  
Associated Design Partners, Inc.



**STATEMENT OF SPECIAL  
CONSTRUCTION MONITORING**

**PROJECT: BUILDING ADDITION  
HALE TRAILER, 20 Pine Tree Industrial Park, Portland, Maine**

**PERMIT APPLICANT: Jim Biskup – Biskup Construction  
APPLICANT'S ADDRESS: 16 Danielle Dr, Windham, ME 04062**

**STRUCTURAL ENGINEER OF RECORD**  
**Foundations, Vestibule Structure: Associated Design Partners, Inc**  
**Pre-Fabricated Steel Building: Package Industries, Inc.**

**CONTRACTOR: Biskup Construction**

This Statement of Special Construction Monitoring is submitted as a condition for building permit issuance in accordance with Section 1704.0 of the 2003 International Building Code. It includes the Schedule of Special Construction Monitoring and Testing as applicable to this project. Also included is a listing of agents and other approved agencies to be retained for conducting the monitoring and testing applicable to this project.

The Special Construction Monitoring Coordinator shall keep records of all observations listed herein, and shall furnish field reports to the Registered Design Professional of Record. All discrepancies shall be brought to the immediate attention of the Contractor for correction, and to the Registered Design Professional of Record. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the Registered Design Professional of Record. Interim reports shall be submitted to the Registered Design Professional of Record monthly, unless more frequent submissions are requested.

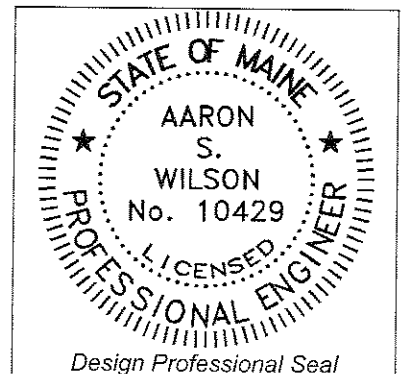
The Special Construction Monitoring program does not relieve the Contractor of his or her responsibilities. Job site safety is solely the responsibility of the Contractor. Materials and activities covered under the monitoring schedule are not to include the Contractor's equipment and methods used to erect or install the materials listed.

Prepared by:

Aaron S. Wilson  
(type or print name)

  
Signature

8/2/11  
Date



Owner's Authorization:

Building Official's Acceptance:

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

## SPECIAL CONSTRUCTION MONITORING AGENTS

This Statement of Special Construction Monitoring / Quality Assurance Plan includes the following building systems:

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Soils and Foundations<br><input type="checkbox"/> Cast-in-Place Concrete Retaining walls<br><input type="checkbox"/> Precast Concrete<br><input checked="" type="checkbox"/> Masonry<br><input checked="" type="checkbox"/> Structural Steel<br><input type="checkbox"/> Cold-Formed Steel Framing | <input type="checkbox"/> Spray Fire Resistant Material<br><input checked="" type="checkbox"/> Wood Construction<br><input type="checkbox"/> Exterior Insulation and Finish System<br><input type="checkbox"/> Mechanical & Electrical Systems<br><input type="checkbox"/> Architectural Systems<br><input type="checkbox"/> Special Cases |
|--|---|

| AGENT   | FIRM                              | CONTACT INFORMATION   |
|---|-----------------------------------|---|
| 1. Engineer of Record<br>(Foundations & Wood Framing) | <b>Associated Design Partners</b> | 80 Leighton Rd<br>Falmouth ME 04105<br>Ph: 878-1751           |
| 2. Special Construction Monitoring Coordinator        | <b>Associated Design Partners</b> | 80 Leighton Rd<br>Falmouth ME 04105<br>Ph: 878-1751           |
| 3. Field Monitor                                      | <b>S.W. Cole</b>                  | 286 Portland Road<br>Gray, ME 04039-9586<br>P: (207) 657.2866 |
| 4. Testing Agency                                     | <b>S.W. Cole</b>                  | 286 Portland Road<br>Gray, ME 04039-9586<br>P: (207) 657.2866 |
| 5. Engineer of Record<br>(Pre-Fab Metal Building)     | <b>Package Industries, Inc</b>    | 15 Harback Rd<br>Sutton, MA 01590<br>PH. (508) 865-5871       |

Note: The testing agency shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official, prior to commencing work.

## QUALITY ASSURANCE FOR LATERAL SYSTEMS

### Quality Assurance for Seismic Requirements

Seismic Design Category *B*

Quality Assurance Plan Required (Y/N) *N*

If seismic design category C, and plan is not required, explain (see exceptions to 1705.1)

Description of seismic force resisting system and designated seismic systems:

*Ordinary Steel Moment Resisting Frames*

### Quality Assurance for Wind Requirements

Basic Wind Speed (3 second gust) *94MPH*

Quality Assurance Plan Required (Y/N) *N*

Description of wind force resisting system and designated wind resisting components:

*Ordinary Steel Moment Resisting Frames.*

### Statement of Responsibility

Each contractor responsible for the construction or fabrication of a system or component designated above must submit a Statement of Responsibility in accordance with section 1705.3, and 1706.3 of the 2003 IBC code.

The qualifications of all personnel performing Special Inspection and testing activities are subject to the approval of the Building Official. The credentials of all Inspectors and testing technicians shall be provided if requested.

Key for Minimum Qualifications of Inspection Agents:

When the Registered Design Professional in Responsible Charge deems it appropriate that the individual performing a stipulated test or inspection have a specific certification or license as indicated below, such designation shall appear below the *Agency Number* on the Schedule.

|       |   |
|-------|---|
| PE/SE | Structural Engineer – a licensed SE or PE specializing in the design of building structures           |
| PE/GE | Geotechnical Engineer – a licensed PE specializing in soil mechanics and foundations                  |
| EIT   | Engineer-In-Training – a graduate engineer who has passed the Fundamentals of Engineering examination |

#### **American Concrete Institute (ACI) Certification**

|          |   |
|----------|---|
| ACI-CFTT | Concrete Field Testing Technician – Grade 1 |
| ACI-CCI  | Concrete Construction Inspector             |
| ACI-LTT  | Laboratory Testing Technician – Grade 1&2   |
| ACI-STT  | Strength Testing Technician                 |

#### **American Welding Society (AWS) Certification**

|              |                                      |
|--------------|--------------------------------------|
| AWS-CWI      | Certified Welding Inspector          |
| AWS/AISC-SSI | Certified Structural Steel Inspector |

#### **American Society of Non-Destructive Testing (ASNT) Certification**

|      |   |
|------|---|
| ASNT | Non-Destructive Testing Technician – Level II or III. |
|------|---|

#### **International Code Council (ICC) Certification**

|          |  |
|----------|--|
| ICC-SMSI | Structural Masonry Special Inspector           |
| ICC-SWSI | Structural Steel and Welding Special Inspector |
| ICC-SFSI | Spray-Applied Fireproofing Special Inspector   |
| ICC-PCSI | Prestressed Concrete Special Inspector         |
| ICC-RCSI | Reinforced Concrete Special Inspector          |

#### **National Institute for Certification in Engineering Technologies (NICET)**

|           |  |
|-----------|--|
| NICET-CT  | Concrete Technician – Levels I, II, III & IV                 |
| NICET-ST  | Soils Technician - Levels I, II, III & IV                    |
| NICET-GET | Geotechnical Engineering Technician - Levels I, II, III & IV |

#### **Exterior Design Institute (EDI) Certification**

|          |                            |
|----------|----------------------------|
| EDI-EIFS | EIFS Third Party Inspector |
|----------|----------------------------|

**TABLE 1 – SCHEDULE OF SPECIAL CONSTRUCTION MONITORING**

| MATERIAL / ACTIVITY  | EXTENT of MONITORING<br>(Continuous, Periodic, Other, Exempt, None)                                       | COMMENTS | AGENT # | DATE COMPLETED | REV # |
|--|---|----------|---------|----------------|-------|
| <b>1704.3 STEEL CONSTRUCTION</b>   |   |          |         |                |       |
| 1. Material Verification of high strength bolts, nuts, and washers.                | a. Identification markings to conform to ASTM standards specified in the approved construction documents. | Periodic | 3       | 6/30/11        |       |
|  | b. Manufacturers Certificate of Compliance required.  | Exempt   | 5       | 1/19/11        |       |
| 2. Inspection of High – Strength Bolting   | a. Bearing type connections   | Periodic | 3       | 6/30/11        |       |
|  | b. Slip – critical connections  | None     |         |                |       |
| 3. Material Verification of structural steel                                       | a. Identification marking to conform to ASTM standards specified in the contract documents.               | Exempt   | 5       | 1/19/11        |       |
|  | b. Manufacturers certified mill test Reports.   | Other    | 5       | 1/19/11        |       |
| 4. Material Verification of weld filler materials:                                 | a. Identification marking to conform to AWS standards specified in the contract documents.                | Exempt   | 5       | 1/19/11        |       |
|  | b. Manufacturers Certificate of Compliance required.  | Exempt   | 5       | 1/19/11        |       |
| 5. Inspection of Welding – Structural Steel  | a. Single Pass fillet welds < 5/16"   | Exempt   | 5       | 1/19/11        |       |
|  | b. Roof deck attachment   | Periodic | 3       | 6/30/11        |       |
| 6. Inspection of Steel Frame Joint details for compliance with approved documents. | a. Bracing / moment frame connections   | Periodic | 3       | 6/30/11        |       |
|  | b. Member locations   | Periodic | 3       | 6/30/11        |       |
|  | c. Application of joint details at each connection.   | Periodic | 3       | 6/30/11        |       |

**TABLE 1 – STATEMENT OF SPECIAL INSPECTIONS, cont.**

| MATERIAL/ACTIVITY  | EXTENT of INSPECTION (Continuous, Periodic, Other, None) | COMMENTS  | AGENT # | DATE COMPLETED | REV # |
|--|--|---|---------|----------------|-------|
| <b>1704.4 CONCRETE CONSTRUCTION</b>  |  |   |         |                |       |
| 1. Inspection of reinforcing steel, including placement.   | Periodic   |   | 3       | 5/31/11        |       |
| 2. Inspection of reinforcing steel welding   | None   | No welding of rebar specified in contract drawings  |         |                |       |
| 3. Inspect bolts embedded into concrete prior to and during placement of concrete where allowable loads have been increased. | None   | Allowable loads have not been increased for lateral loads.  |         |                |       |
| 4. Verify concrete mix design(s)   | Periodic   | SER to review and approve mix design(s) prior to delivery. Field agent to verify delivery ticket matches approved mix design. | 1,3     | 7/7/11         |       |
| 5. Sample fresh concrete for strength tests, perform slump and air content tests, and determine temperature of concrete.     | Continuous   |   | 3,4     | 7/7/11         |       |
| 6. Inspection of concrete placement for proper techniques.   | Continuous   |   | 3       | 5/31/11        |       |
| 7. Inspection for maintenance of specified curing temperature and techniques.  | Periodic   |   | 3       | 5/31/11        |       |
| <b>1704.5 MASONRY CONSTRUCTION - Level 1 Special Inspection for non-essential facility – 1704.5.2</b>                        |  |   |         |                |       |
| 1. As Masonry Construction begins, the following shall be verified to ensure conformance                                     | a. Proportions of site-prepared mortar                   |   | 3       | 7/6/11         |       |
|  | b. Construction of mortar joints                         |   | 3       | 7/6/11         |       |
|  | c. Location of reinforcement                             |   | 3       | 7/6/11         |       |
|  | d. Pre-stressing technique                               | No pre-stressing in building  |         |                |       |
|  | e. Grade and size of pre-stressing tendons.              | No pre-stressing in building  |         |                |       |
| 2. The inspection program shall verify the following:  | a. Size and location of structural elements.             |   | 3       | 7/26/11        |       |
|  | b. Type, size, and location of embedded anchors.         |   | 3       | 7/26/11        |       |
|  | c. Size, grade, and type of reinforcing                  |   | 3       | 7/6/11         |       |

**TABLE 1 – STATEMENT OF SPECIAL INSPECTIONS, cont.**

| MATERIAL/ACTIVITY  | EXTENT of INSPECTION (Continuous, Periodic, Other, None) | COMMENTS                     | AGENT # | DATE COMPLETED | REV # |
|--|--|------------------------------|---------|----------------|-------|
| <b>1704.5 MASONRY CONSTRUCTION -</b>   |  |                              |         |                |       |
| <b>Level 1 Special Inspection for non-essential facility – 1704.5.2</b>  |  |                              |         |                |       |
| 2. The Inspection program shall verify the following, cont:  | None   |                              |         |                |       |
| d. welding of reinforcing bars   | None   |                              |         |                |       |
| e. Protection of Masonry during cold weather (temp. below 40 deg F.)   | None   |                              |         |                |       |
| f. Application and measurement of pre-stressing reinforcement  | None   | No pre-stressing in building |         |                |       |
| 3. Prior to grouting, the following shall be verified to ensure compliance.  | Periodic   |                              | 3       | 7/6/11         |       |
| a. Grout space is clean  | Periodic   |                              | 3       | 7/6/11         |       |
| b. Placement of reinforcement  | Periodic   |                              |         |                |       |
| c. Proportions of site-prepared grout  | None   |                              |         |                |       |
| d. Construction of mortar joints   | Periodic   |                              | 3       | 7/6/11         |       |
| 4. Grout placement shall be verified to ensure compliance with code and construction document provisions.                      | Periodic   |                              | 3       | 7/6/11         |       |
| 5. Preparation of any grout specimens, mortar specimens and/or prisms shall be observed  | None   |                              |         |                |       |
| 6. Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified. | None   |                              |         |                |       |
| <b>1704.6 WOOD CONSTRUCTION</b>  |  |                              |         |                |       |
| 1. Horizontal Diaphragms and Vertical Shearwalls   | Periodic   |                              | 3       | 7/26/11        |       |
| a. Inspect sheathing size, grade, and thickness for conformance with construction documents.                                   | Periodic   |                              |         |                |       |
| b. Inspect sheathing fastener size and pattern for conformance with construction documents.                                    | Periodic   |                              | 3       | 7/26/11        |       |
| c. Verify attachment to supporting elements is per contract documents.   | None   |                              |         |                |       |
| 2. Wood truss fabricator certification / quality control procedures  | None   |                              |         |                |       |
| 3. Material Grading  | Periodic   |                              | 3       | 7/26/11        |       |



**TABLE 1 – STATEMENT OF SPECIAL INSPECTIONS, cont.**

| MATERIAL/ACTIVITY                                    | EXTENT of INSPECTION (Continuous, Periodic, Other, None) | COMMENTS  | AGENT # | DATE COMPLETED                        | REV # |
|--|--|---|---------|---------------------------------------|-------|
| <b>1704.6 WOOD CONSTRUCTION</b>                      |  |   |         |                                       |       |
| 4. Wood Connections                                  | Periodic   | Verify that connections are made as shown in the contract documents. For connections not specifically detailed, verify conformance with IBC 2003 Ch. 23                               | 3       | 7/26/11                               |       |
| 5. Framing   | Periodic   | Verify that framing is installed in accordance with construction documents.   | 3       | 7/26/11                               |       |
| 6. Pre-Fabricated Wood Trusses                       | None   | Inspect truss and all bracing installation. Bracing to be installed per fabricator's recommendations and BCSI 1-03  |         |                                       |       |
| <b>1704.7 SOILS</b>                                  |  |   |         |                                       |       |
| 1. Site Preparation                                  | Periodic   | Inspect preparation of site for conformance with Geotechnical recommendations prior to placement of prepared fill.  | 3       | 5/20/11                               |       |
| 2. Fill Placement                                    | Periodic   | During Fill Placement verify that material and lift thickness comply with approved Geotechnical report.   | 3       | 5/20/11                               |       |
| 3. In-Place Soil Density                             | Periodic   | Verify compliance of in-place compacted dry density with approved Geotechnical report.  | 3       | 5/4/11                                |       |
| <b>1704.7 PILE FOUNDATIONS</b>                       |  |   |         |                                       |       |
|  | None   | Record installation and testing of procedures of each pile. Submit reports to building official and EOR. Reports to include pile tip cutoff elevation relative to a common benchmark. |         | No Piles on Job                       |       |
| <b>1704.10 ARCHITECTURAL WALL PANELS AND VENEERS</b> |  |   |         |                                       |       |
|  | None   | Verify compliance of attachment of interior and exterior Architectural veneers to supporting structure for building in Seismic Design Category E or F.                                |         | Building is Seismic Design Category B |       |

**TABLE 1 – STATEMENT OF SPECIAL INSPECTIONS, cont.**

| MATERIAL/ACTIVITY  |   | EXTENT of INSPECTION (Continuous, Periodic, Other, None) | COMMENTS  | AGENT # | DATE COMPLETED | REV # |
|--|---|--|---|---------|----------------|-------|
| <b>1704.11 SPRAYED FIRE-RESISTANT MATERIAL</b>                   | a. Verify conformance of the prepared surface with manufacturer's specifications prior to application of material.  | None   | No Sprayed Fire-Resistant material in building. |         |                |       |
|  | b. Verify that substrate's ambient temperature meet manufacturer's specifications.  | None   |   |         |                |       |
|  | c. Verify that material thickness meets design specifications.  | None   |   |         |                |       |
|  | d. Verify that the material density meets the design specifications. Test in accordance with ASTM E 605.  | None   |   |         |                |       |
|  | e. Verify that bond strength between material and substrate is greater than or equal to 150 psf. Test in accordance with ASTM E 736 and IBC 2003 1704.11.5.1 – 1704.11.5.2                                  | None   |   |         |                |       |
| <b>1704.12 EXTERIOR AND INSULATION AND FINISH SYSTEMS (EIFS)</b> | Verify conformance of EIFS installation with manufacturers and design specifications.   | None   | No EIFS on building.                            |         |                |       |
| <b>1704.13 SPECIAL CASES COLD FORMED METAL FRAMING</b>           |   |  |   |         |                |       |
| 1. Framing   | Verify member size, thickness, material, and spacing is in accordance with design specifications and drawings.<br>Verify that member connections are in accordance with design specifications and drawings. | None   |   |         |                |       |
| 2. Framing Connections   | Verify welding of cold formed members is in accordance with design specifications and AWS standards.  | None   |   |         |                |       |
| 3. Welding   |   | None   |   |         |                |       |

**TABLE 1 – STATEMENT OF SPECIAL INSPECTIONS, cont.**

| MATERIAL/ACTIVITY     | EXTENT of INSPECTION (Continuous, Periodic, Other, None)   | COMMENTS | AGENT # | DATE COMPLETED | REV # |
|-----------------------|--|----------|---------|----------------|-------|
| 4. Light Gage Trusses | <ul style="list-style-type: none"> <li>a. Verify that light gage trusses are design in accordance with the loads specified on the contract documents.</li> <li>b. Verify that light gage trusses and truss bracing is installed per manufacturers specifications, contract documents, and BCSI 1-03 guidelines.</li> </ul> | None     |         |                |       |
| 1704.10 SMOKE CONTROL | <ul style="list-style-type: none"> <li>a. Test ductwork for leakage and recode device locations prior to concealment of mechanical systems.</li> <li>b. Prior to building occupation, perform pressure difference testing, flow measurements and detection, and control monitoring.</li> </ul>                             | None     |         |                |       |



# Report of Field Density ASTM D6938

Project: PORTLAND, ME - PROPOSED BUILDING EXPANSION - MATERIALS TESTING

Project Number: 10-1077.1

Client: BISKUP CONSTRUCTION, INC.

## Field Density Test Results

| Test # | Test Date | Tech | Test Location              | Elev Feet | Test Depth | Lab ID | Dry Density | Moisture Content Percent | Compaction Percent | Required Compaction |
|--------|-----------|------|----------------------------|-----------|------------|--------|-------------|--------------------------|--------------------|---------------------|
| 1      | 6/1/2011  | ARM  | 30' W ON INT S WALL        | 6" BFG    | 12         | 13841G | 112.8       | 2.5                      | 95.7               | 95                  |
| 2      | 6/1/2011  | ARM  | 58' W ON INT S WALL        | 1' BFG    | 12         | 13841G | 117.3       | 2.5                      | 99.5               | 95                  |
| 3      | 6/1/2011  | ARM  | 100' N 30' W FROM BUILDING | 6" BFG    | 12         | 13841G | 115.7       | 2.5                      | 98.1               | 92                  |
| 4      | 6/1/2011  | ARM  | 50' N ON INT W WALL        | 6" BFG    | 12         | 13841G | 113.7       | 1.9                      | 96.4               | 95                  |
| 5      | 6/1/2011  | ARM  | 65' W ON S WALL            | 6" BFG    | 12         | 13841G | 109.9       | 2.9                      | 93.2               | 92                  |
| 6      | 6/1/2011  | ARM  | 10' W ON S WALL            | 6" BFG    | 12         | 13841G | 115.1       | 2.8                      | 97.6               | 92                  |

## Laboratory Compaction Test Reference

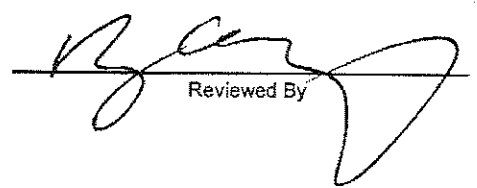
| Lab ID | Date Received | Material Source    | Material Type   | Method                 | Max Dry Density PCF | Optimum Moisture Content (%) | Comments |
|--------|---------------|--------------------|-----------------|------------------------|---------------------|------------------------------|----------|
| 13841G | 5/4/2011      | Shaw Bros - H Pit. | Structural Fill | ASTM D-1557 Modified A | 117.9               | 11.7                         |          |

**Elevation Notes:**

BFG - BELOW FINISH GRADE

**Comments:**

INT - INTERIOR

  
 Reviewed By



**S.W. COLE**  
ENGINEERING, INC.

• Geotechnical Engineering • Field & Lab Testing • Scientific & Environmental Consulting

## CONSTRUCTION OBSERVATION REPORT

**Project:** Proposed Hale Trailer Building Addition  
**Client:** Biskup Construction, Inc.  
**Client's Rep.:** Jim Biskup

**SWCE Project No.:** 10-1077.1  
**Date:** 5-20-11  
**Weather:** Cloudy, showers, 50s

**Work in Progress:** Eastern Excavation, Inc. (EEI) excavating for new foundations along the western building lines of the proposed addition.

**Work Performed by SWCE Rep.:** Observation and documentation of foundation subgrade conditions.

**General Observations, Discussions, Etc:** As requested by Biskup Construction, we made a site visit to observe foundation subgrade conditions at the subject site. Upon arrival, EEI (project earthwork contractor) was excavating for new column footings along the western line of the building addition, adjacent to the existing building. EEI had excavated for foundations along the southern line of the building addition prior to our arrival. Subgrade soils consisted of native, very stiff to hard, brown silty clay. Pocket penetrometer readings on the material varied from 4 to 6 ksf and the material was not easily penetrated by hand probing. The soils appeared consistent with the findings at the test borings. Standing water up to 1 to 3 inches in depth was present overlying the subgrade soils in the southern building line. Sid (Biskup Construction superintendent) reported that the excavation had initially been dry but water had run in from the foundation drain around the existing building. Water had largely stopped flowing from the underdrain during our time onsite. Sid explained that EEI was going to pump the excavation dry and then place 12-inches of compacted crushed stone, wrapped in woven geotextile fabric over the subgrade soils. Woven geotextile was observed to be onsite. We recommended that any subgrade soils which become soft or disturbed due to the inflow of the water be overexcavated and replaced with an increased thickness of crushed stone wrapped in geotextile fabric. We recommended that the footprint of the proposed slab-on-grade be proof-rolled and any areas which yield be overexcavated and replaced with compacted Structural Fill.

**On Site:** 11:15-12:15  
**Attachments:** Photos  
**Sheet:** 1 of 1

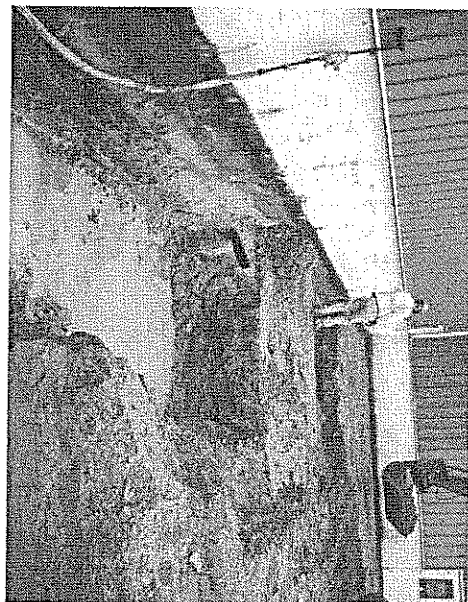
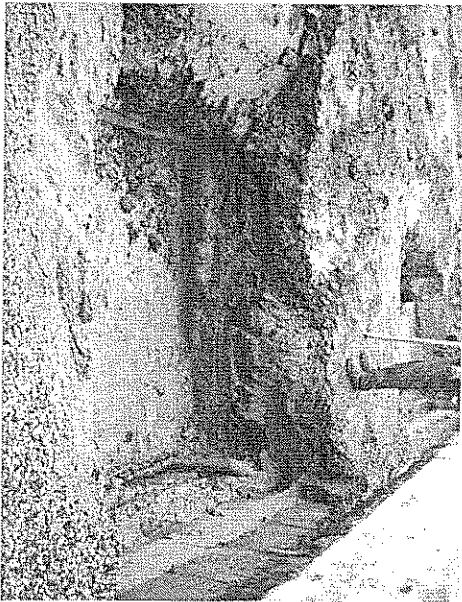
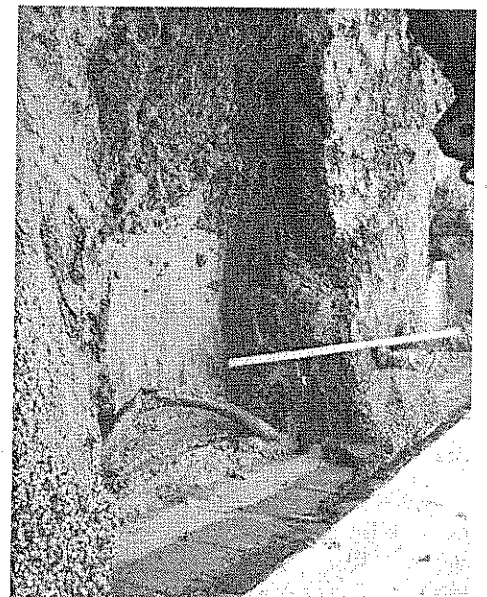
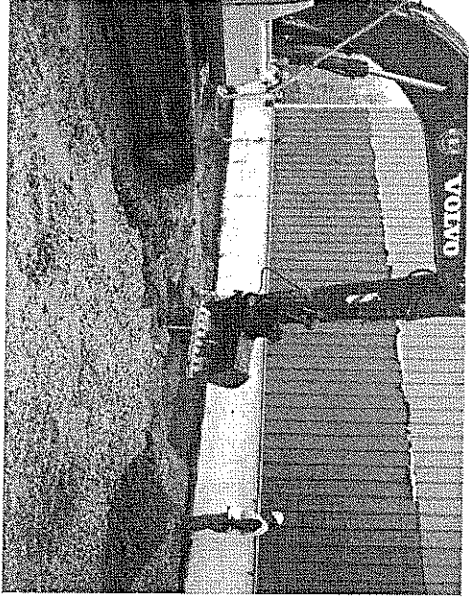
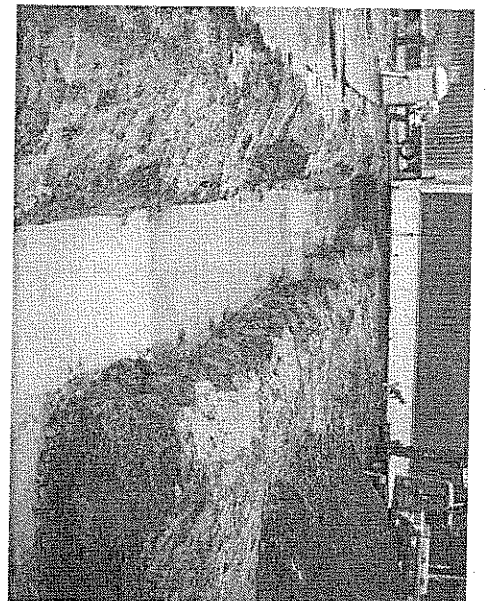
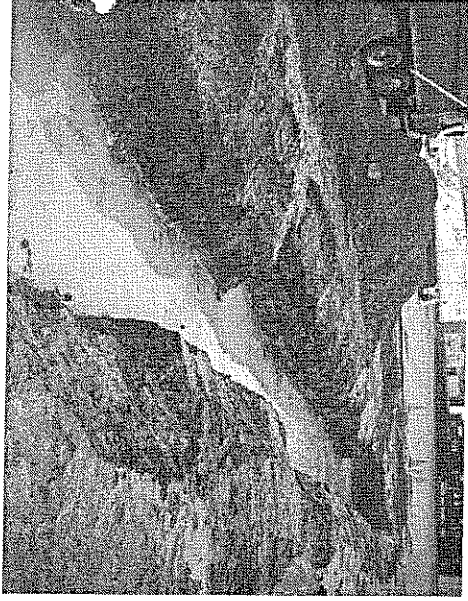
**SWC Rep.:** EMW  
**Rev. by:** TJB

P:\2010\10-1077.1 M - Biskup Construction, Inc. - Portland, ME - Proposed Building Expansion Hale Trailer - Materials Testing - REDICOR's\2011-5-20 COR Subgrade EMW.doc

GRAY, ME OFFICE

286 Portland Road, Gray, ME 04039, Tel (207) 657-2866, Fax (207) 657-2840, (E) [infogray@swcole.com](mailto:infogray@swcole.com), (I) [www.swcole.com](http://www.swcole.com)

The SWCE field representative is on-site at the request of our client to provide construction materials testing and to observe and document construction activities. The contractor has sole responsibility for schedule, site safety, methods, completeness and quality of the work.





# Concrete Construction Observation Report

|                               |  |                         |           |
|-------------------------------|--|-------------------------|-----------|
| <b>Project Name/Location:</b> | Hale Trailer Building Addition   | <b>Project No:</b>      | 10-1077.1 |
| <b>Client/Client's Rep.:</b>  | Biskup Construction Inc.   | <b>Date:</b>            | 5-24-11   |
| <b>Concrete Contractor:</b>   | Concrete Construction Inc.   | <b>Sheet:</b>           | 1 of 1    |
| <b>Placement Location:</b>    | Footings: Line A(1-4), Line 1(A-E), Pier E2  | <b>SWCE Rep.:</b>       | SJC       |
| <b>Placement Type:</b>        | Footing <input checked="" type="checkbox"/> Wall <input type="checkbox"/> Column <input type="checkbox"/> Slab <input type="checkbox"/> Other <input type="checkbox"/> | <b>Arrived at Site:</b> | 1:30 PM   |
|                               |  | <b>Left Site:</b>       | 3:00 PM   |

| <u>PRE PLACEMENT OBSERVATIONS</u>                                     | <u>In Compliance</u>                    |                             | <u>N/O</u>               | <u>Comments</u> |
|---|---|-----------------------------|--------------------------|-----------------|
| Bar Size (diameter, length, bend and anchorage)                       | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | <input type="checkbox"/> | Correct Size    |
| Location (# of bars, spacing, and cover)                              | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | <input type="checkbox"/> |                 |
| Splicing (weld joint, overlap)  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | <input type="checkbox"/> |                 |
| Stability (wiring, chairs, and spacers)                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | <input type="checkbox"/> | Concrete Blocks |
| Reinforcement free from mud, oil, rust, or other nonmetallic coatings | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | <input type="checkbox"/> | Clean Rebar     |
| Reinforcement appears in conformance to specifications                | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | <input type="checkbox"/> |                 |
| Soil subgrade prepared in accordance with project specifications      | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | <input type="checkbox"/> | Stone           |

| <u>Referenced Drawings</u> | <u>Date</u> | <u>Page</u> | <u>Rev.</u> | <u>ASTM</u>                               | <u>GRADE</u>   |
|----------------------------|-------------|-------------|-------------|---|--|
| Foundation Plan            | 3/12/11     | F-1         |             | A 615 <input checked="" type="checkbox"/> | 40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/> |
|                            |             |             |             | A 616 <input type="checkbox"/>            | 75 <input type="checkbox"/>  |
|                            |             |             |             | A 617 <input type="checkbox"/>            |  |
|                            |             |             |             | A 706 <input type="checkbox"/>            | A 775 Epoxy <input type="checkbox"/>   |

| <u>CONCRETE PLACEMENT OBSERVATIONS</u>   | <u>In Compliance</u>                    |                          | <u>N/O</u>                          | <u>Comments</u> |
|--|---|--------------------------|-------------------------------------|-----------------|
| Required mix used  | Yes <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | 3000 psi        |
| Placement and consolidation of concrete observed   | Yes <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |                 |
| Concrete properly conveyed to all areas of placement   | Yes <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |                 |
| Depth of layer maximum limits not exceeded   | Yes <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |                 |
| Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration) | Yes <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |                 |
| Even layering around openings and embedments   | Yes <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |                 |
| Removal of temporary ties and spacers  | Yes <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |                 |


**FIELD TESTING OF CONCRETE PERFORMED** Yes  No   
 \*CYLINDER SET NO: 257-1 ←\*refer to associated concrete test report

| <u>POST PLACEMENT OBSERVATIONS</u>                       | <u>In Compliance</u>                    |                          | <u>N/O</u>                          | <u>Comments</u> |
|--|---|--------------------------|-------------------------------------|-----------------|
| Specified finish   | Yes <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | Trowel Finish   |
| Protection of surfaces from cracking due to rapid drying | Yes <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |                 |
| Proper curing procedures implemented                     | Yes <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |                 |

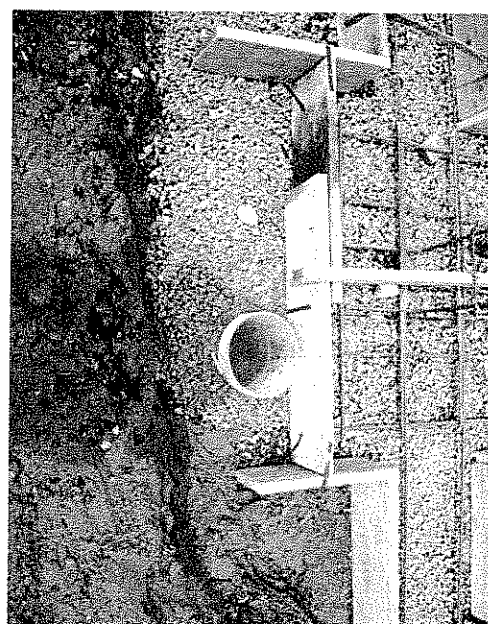
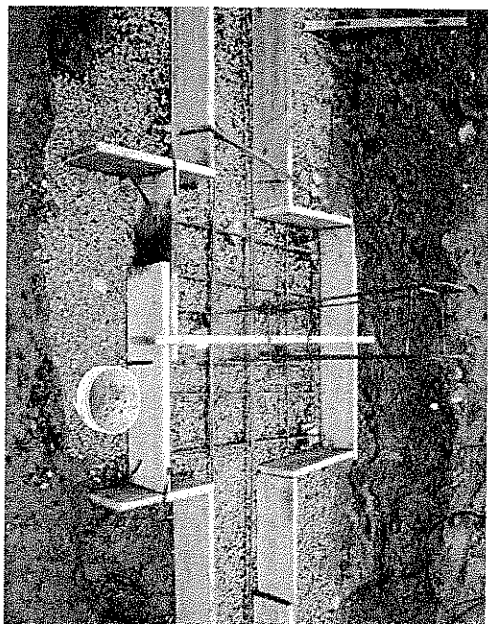
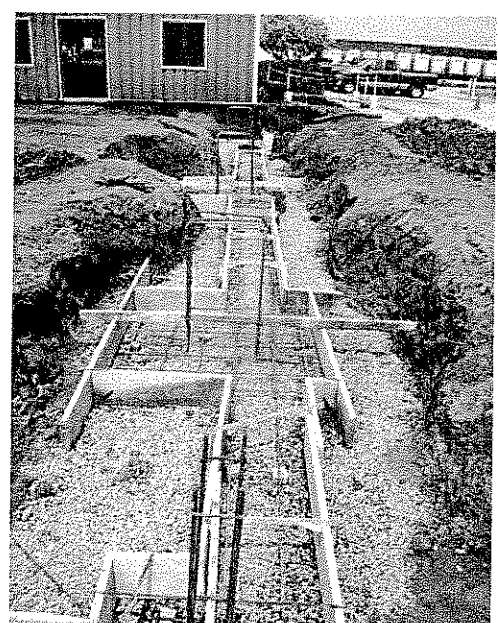
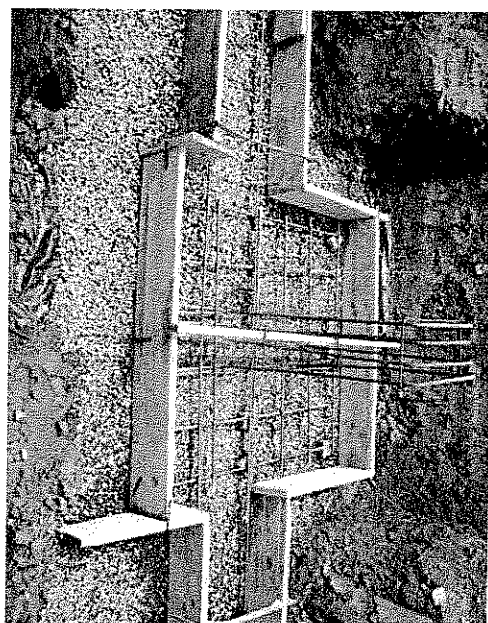
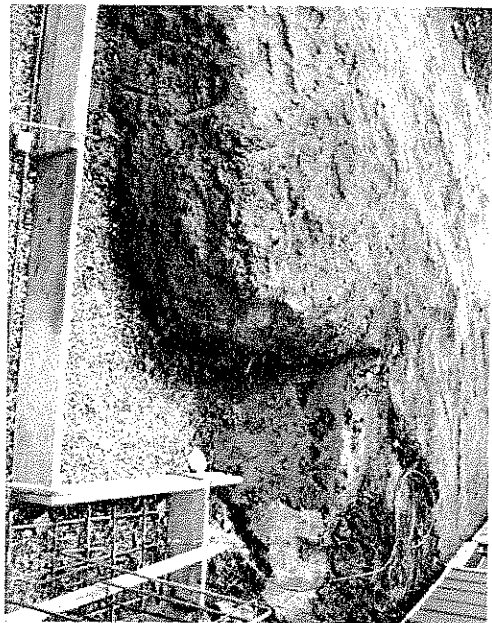
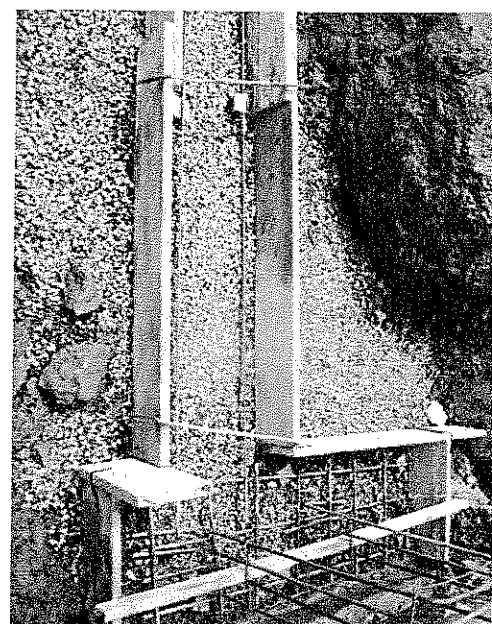
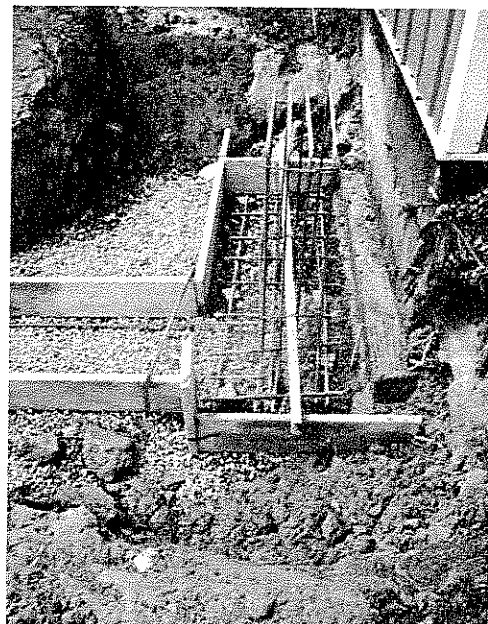
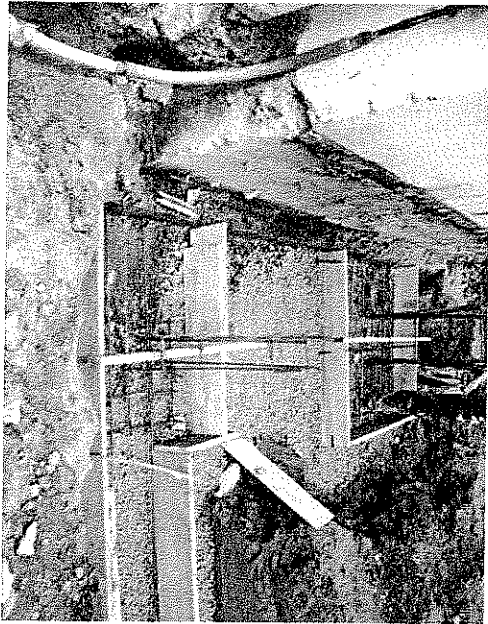
**NON-CONFORMANCE ITEMS OBSERVED** Yes  No

Non-Conformance Item Description:  
 Action Taken by SWCE:  
 Person(s) Notified:

N/O = Not Observed  
 Notes: Air - 8.0%, Slump - 6" Temp. - 71°F

Attachments: Photos  
 Reviewed By: RED 









## Concrete Construction Observation Report

|                               |  |                         |           |
|-------------------------------|--|-------------------------|-----------|
| <b>Project Name/Location:</b> | Hale Trailer Building Addition   | <b>Project No:</b>      | 10-1077.1 |
| <b>Client/Client's Rep.:</b>  | Biskup Construction Inc.   | <b>Date:</b>            | 5-27-11   |
| <b>Concrete Contractor:</b>   | Concrete Construction Inc.   | <b>Sheet:</b>           | 1 of 1    |
| <b>Placement Location:</b>    | South & East Walls   | <b>SWCE Rep.:</b>       | ARM       |
| <b>Placement Type:</b>        | Footing <input type="checkbox"/> Wall <input checked="" type="checkbox"/> Column <input type="checkbox"/> Slab <input type="checkbox"/> Other <input type="checkbox"/> | <b>Arrived at Site:</b> | 10:00 AM  |
|                               |  | <b>Left Site:</b>       | 12:00 PM  |

| <u>PRE PLACEMENT OBSERVATIONS</u>                                     | <u>In Compliance</u>                    |                             | <u>N/O</u>               | <u>Comments</u>  |
|---|---|-----------------------------|--------------------------|------------------|
| Bar Size (diameter, length, bend and anchorage)                       | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | <input type="checkbox"/> | Correct Size, #4 |
| Location (# of bars, spacing, and cover)                              | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | <input type="checkbox"/> |                  |
| Splicing (weld joint, overlap)  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | <input type="checkbox"/> |                  |
| Stability (wiring, chairs, and spacers)                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | <input type="checkbox"/> |                  |
| Reinforcement free from mud, oil, rust, or other nonmetallic coatings | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | <input type="checkbox"/> | Clean Rebar      |
| Reinforcement appears in conformance to specifications                | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | <input type="checkbox"/> |                  |
| Soil subgrade prepared in accordance with project specifications      | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | <input type="checkbox"/> | Footing          |

| <u>Referenced Drawings</u> | <u>Date</u> | <u>Page</u> | <u>Rev.</u> | <u>ASTM</u>                               | <u>GRADE</u>   |
|----------------------------|-------------|-------------|-------------|---|--|
| Foundation Plan            | 3/12/11     | F-1         |             | A 615 <input checked="" type="checkbox"/> | 40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/> |
|                            |             |             |             | A 616 <input type="checkbox"/>            | 75 <input type="checkbox"/>  |
|                            |             |             |             | A 617 <input type="checkbox"/>            |  |
|                            |             |             |             | A 706 <input type="checkbox"/>            | A 775 Epoxy <input type="checkbox"/>   |

| <u>CONCRETE PLACEMENT OBSERVATIONS</u>   | <u>In Compliance</u>                    |                          | <u>N/O</u>                          | <u>Comments</u> |
|--|---|--------------------------|-------------------------------------|-----------------|
| Required mix used  | Yes <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | 3000 psi        |
| Placement and consolidation of concrete observed   | Yes <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | Vibrated        |
| Concrete properly conveyed to all areas of placement   | Yes <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | Pumped          |
| Depth of layer maximum limits not exceeded   | Yes <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |                 |
| Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration) | Yes <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |                 |
| Even layering around openings and embedments   | Yes <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |                 |
| Removal of temporary ties and spacers  | Yes <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |                 |

**FIELD TESTING OF CONCRETE PERFORMED**      Yes     No

\*CYLINDER SET NO:      257-2      ←\*refer to associated concrete test report

| <u>POST PLACEMENT OBSERVATIONS</u>                       | <u>In Compliance</u>                    |                          | <u>N/O</u>                          | <u>Comments</u> |
|--|---|--------------------------|-------------------------------------|-----------------|
| Specified finish   | Yes <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | Trowel Finish   |
| Protection of surfaces from cracking due to rapid drying | Yes <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |                 |
| Proper curing procedures implemented                     | Yes <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |                 |

**NON-CONFORMANCE ITEMS OBSERVED**      Yes     No

Non-Conformance Item Description: \_\_\_\_\_

Action Taken by SWCE: \_\_\_\_\_

Person(s) Notified: \_\_\_\_\_

N/O = Not Observed  
**Notes:** 3 loads placed by pump.

Attachments: None

Reviewed By: RED



## Concrete Construction Observation Report

|                               |  |                         |           |
|-------------------------------|--|-------------------------|-----------|
| <b>Project Name/Location:</b> | Hale Trailer Building Addition   | <b>Project No:</b>      | 10-1077.1 |
| <b>Client/Client's Rep.:</b>  | Biskup Construction Inc.   | <b>Date:</b>            | 5-31-2011 |
| <b>Concrete Contractor:</b>   | Concrete Construction Inc.   | <b>Sheet:</b>           | 1 of 1    |
| <b>Placement Location:</b>    | Pier Footing: 2/3C Pier: 3/4E Wall: Vestibule  | <b>SWCE Rep.:</b>       | EEC       |
| <b>Placement Type:</b>        | Footing <input checked="" type="checkbox"/> Wall <input checked="" type="checkbox"/> Column <input type="checkbox"/> Slab <input type="checkbox"/> Other <input checked="" type="checkbox"/> | <b>Arrived at Site:</b> | 1:00 PM   |
|                               |  | <b>Left Site:</b>       | 3:00 PM   |

| <u>PRE PLACEMENT OBSERVATIONS</u>                                     | <u>In Compliance</u>                    |                             | <u>N/O</u>               | <u>Comments</u> |
|---|---|-----------------------------|--------------------------|-----------------|
| Bar Size (diameter, length, bend and anchorage)                       | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | <input type="checkbox"/> | Correct Size    |
| Location (# of bars, spacing, and cover)                              | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | <input type="checkbox"/> |                 |
| Splicing (weld joint, overlap)  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | <input type="checkbox"/> |                 |
| Stability (wiring, chairs, and spacers)                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | <input type="checkbox"/> | Concrete Blocks |
| Reinforcement free from mud, oil, rust, or other nonmetallic coatings | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | <input type="checkbox"/> | Clean Rebar     |
| Reinforcement appears in conformance to specifications                | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | <input type="checkbox"/> |                 |
| Soil subgrade prepared in accordance with project specifications      | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | <input type="checkbox"/> | Stone           |

| <u>Referenced Drawings</u> | <u>Date</u> | <u>Page</u> | <u>Rev.</u> | <u>ASTM</u>                               | <u>GRADE</u>   |
|----------------------------|-------------|-------------|-------------|---|--|
| Foundation Plan            | 3/12/11     | F-1         |             | A 615 <input checked="" type="checkbox"/> | 40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/> |
|                            |             |             |             | A 616 <input type="checkbox"/>            | 75 <input type="checkbox"/>  |
|                            |             |             |             | A 617 <input type="checkbox"/>            |  |
|                            |             |             |             | A 706 <input type="checkbox"/>            | A 775 Epoxy <input type="checkbox"/>   |

| <u>CONCRETE PLACEMENT OBSERVATIONS</u>   | <u>In Compliance</u>                    |                          | <u>N/O</u>                          | <u>Comments</u> |
|--|---|--------------------------|-------------------------------------|-----------------|
| Required mix used  | Yes <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | 3000 psi        |
| Placement and consolidation of concrete observed   | Yes <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |                 |
| Concrete properly conveyed to all areas of placement   | Yes <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |                 |
| Depth of layer maximum limits not exceeded   | Yes <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |                 |
| Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration) | Yes <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |                 |
| Even layering around openings and embedments   | Yes <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |                 |
| Removal of temporary ties and spacers  | Yes <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |                 |

**FIELD TESTING OF CONCRETE PERFORMED**      Yes       No

\*CYLINDER SET NO:      257-3      ←\*refer to associated concrete test report

| <u>POST PLACEMENT OBSERVATIONS</u>                       | <u>In Compliance</u>                    |                          | <u>N/O</u>                          | <u>Comments</u> |
|--|---|--------------------------|-------------------------------------|-----------------|
| Specified finish   | Yes <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | Trowel Finish   |
| Protection of surfaces from cracking due to rapid drying | Yes <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |                 |
| Proper curing procedures implemented                     | Yes <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |                 |

**NON-CONFORMANCE ITEMS OBSERVED**      Yes       No

Non-Conformance Item Description: \_\_\_\_\_

Action Taken by SWCE: \_\_\_\_\_

Person(s) Notified: \_\_\_\_\_

N/O = Not Observed

**Notes:** Air – 8.0%, Slump – 6" Temp. – 71°F

Attachments: None

Reviewed By: RED



# Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: PORTLAND, ME - PROPOSED BUILDING EXPANSION - MATERIALS TESTING Project Number: 10-1077.1

Client: BISKUP CONSTRUCTION, INC. Client Contract Number:

General Contractor: Concrete Supplier: DRAGON PRODUCTS

## PLACEMENT INFORMATION

Date Cast: 5/24/2011 Time Cast: 2:15 Date Received: 5/25/2011
Placement Location: FOOTINGS: LINE A (1-4) LINE 1 (A-E) VESTIBULE FOOTINGS, PIER E2
Placement Method: TAILGATE Placement Vol. (yd³): 20
Cylinders Made By: SJC Aggregate Size (in): 3/4

## INITIAL CURING CONDITIONS

### Temperatures

Minimum (°F) Maximum (°F)

## DELIVERY INFORMATION

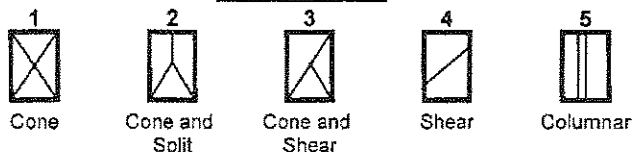
Admixtures: MIDRANGE

## TEST RESULTS

Slump (in) (C-143): Slump WR: 6 Load Number: 1
Air Content (%) (C-231): Air WR: 8.0 Mixer Number: 177
Air Temp (°F): 77 Ticket Number: 3937972
Conc. Temp (°F) (C-1064): 71 Cubic Yards: 10
Design (psi): 3000

Table with 10 columns: Cylinder Designation, Cylinder Weight (lbs), Cylinder Diameter (in), Cross Sectional Area (ln)², Date Of Test, Cure Type, Age (days), Fracture Type, Load (kips), Strength (psi). Rows include 257-1A through 257-1D with various test results and fracture types.

### Fracture Types



Remarks:



## Report of Concrete Compressive Strength

ASTM C-31 & C-39

**Project Name:** PORTLAND, ME - PROPOSED BUILDING EXPANSION - MATERIALS TESTING

**Project Number:** 10-1077.1

**Client:** BISKUP CONSTRUCTION, INC.

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 5/27/2011      **Time Cast:** 11:33      **Date Received:** 5/28/2011  
**Placement Location:** SOUTH AND EAST WALLS  
**Placement Method:** PUMP (MOORE)      **Placement Vol. (yd<sup>3</sup>):** 29  
**Cylinders Made By:** ARM      **Aggregate Size (in):** 3/4

### INITIAL CURING CONDITIONS

**Temperatures**

**Minimum (°F)**      **Maximum (°F)**

### DELIVERY INFORMATION

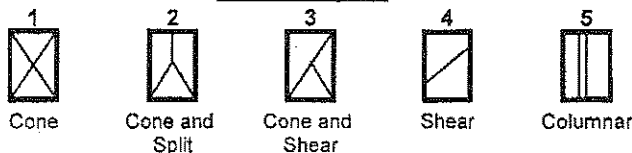
**Admixtures:** GLENIUM - MID RANGE

### TEST RESULTS

|                                     |                      |                               |
|-------------------------------------|----------------------|-------------------------------|
| <b>Slump (in) (C-143):</b>          | <b>Slump WR:</b> 6.5 | <b>Load Number:</b>           |
| <b>Air Content (%) (C-231):</b>     | <b>Air WR:</b> 7.3   | <b>Mixer Number:</b> 190      |
| <b>Air Temp (°F):</b> 75            |                      | <b>Ticket Number:</b> 3937999 |
| <b>Conc. Temp (°F) (C-1064):</b> 73 |                      | <b>Cubic Yards:</b> 10        |
|                                     |                      | <b>Design (psi):</b> 3000     |

| Cylinder Designation | Cylinder Weight (lbs) | Cylinder Diameter (in) | Cross Sectional Area(In <sup>2</sup> ) | Date Of Test | Cure Type | Age (days) | Fracture Type | Load (kips) | Strength (psi) |
|----------------------|-----------------------|------------------------|--|--------------|-----------|------------|---------------|-------------|----------------|
| 257-2A               |                       | 4.00                   | 12.57                                  | 6/3/2011     | Lab       | 7          | 4             | 37.7        | 3000           |
| 257-2B               |                       | 4.00                   | 12.57                                  | 6/24/2011    | Lab       | 28         | 4             | 43.1        | 3430           |
| 257-2C               |                       | 4.00                   | 12.57                                  | 6/24/2011    | Lab       | 28         | 4             | 44.3        | 3530 ✓         |
| 257-2D               |                       |                        |  | Hold         | Lab       |            |               |             |                |

Fracture Types



Remarks:



## Report of Concrete Compressive Strength

ASTM C-31 & C-39

**Project Name:** PORTLAND, ME - PROPOSED BUILDING EXPANSION - MATERIALS TESTING

**Project Number:** 10-1077.1

**Client:** BISKUP CONSTRUCTION, INC.

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 5/31/2011      **Time Cast:** 14:20      **Date Received:** 6/1/2011  
**Placement Location:** PIER FOOTINGS @ 2 AND 3 C PIERS @ 3 + 4 E WALLS FOR VESTIBULE  
**Placement Method:** REAR DISCHARGE      **Placement Vol. (yd<sup>3</sup>):** 9  
**Cylinders Made By:** EEC      **Aggregate Size (in):** 3/4

### INITIAL CURING CONDITIONS

**Temperatures**

**Minimum (°F)**      **Maximum (°F)**

### DELIVERY INFORMATION

**Admixtures:** GLENIUM MID RANGE

### TEST RESULTS

|                                  |                  |     |                       |         |
|----------------------------------|------------------|-----|-----------------------|---------|
| <b>Slump (in) (C-143):</b>       | <b>Slump WR:</b> | 3   | <b>Load Number:</b>   | 1       |
| <b>Air Content (%) (C-231):</b>  | <b>Air WR:</b>   | 4.5 | <b>Mixer Number:</b>  | 181     |
| <b>Air Temp (°F):</b>            | 85               |     | <b>Ticket Number:</b> | 3938022 |
| <b>Conc. Temp (°F) (C-1064):</b> | 67               |     | <b>Cubic Yards:</b>   | 9       |
|                                  |                  |     | <b>Design (psi):</b>  | 3000    |

| Cylinder Designation | Cylinder Weight (lbs) | Cylinder Diameter (in) | Cross Sectional Area (in <sup>2</sup> ) | Date Of Test | Cure Type | Age (days) | Fracture Type | Load (kips) | Strength (psi) |
|----------------------|-----------------------|------------------------|---|--------------|-----------|------------|---------------|-------------|----------------|
| 257-3A               |                       | 4.00                   | 12.57                                   | 6/7/2011     | Lab       | 7          | 4             | 52.2        | 4150           |
| 257-3B               |                       | 4.00                   | 12.57                                   | 6/28/2011    | Lab       | 28         | 4             | 64.1        | 5100           |
| 257-3C               |                       | 4.00                   | 12.57                                   | 6/28/2011    | Lab       | 28         | 4             | 66.6        | 5300 ✓         |
| 257-3D               |                       |                        |   | Hold         | Lab       |            |               |             |                |

Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks:



## Report of Grout Compressive Strength

ASTM C109

**Project Name:** Portland ME - Proposed Building Expansion - Geotechnical Engineering & Material Testing Services

**Project Number:** 10-1077.1

**Client:** Biskup Construction, Inc.

**Client Contract Number:**

**General Contractor:**

**Supplier:**

### PLACEMENT INFORMATION

**Date Cast:** 7/6/2011      **Time Cast:** 9:00      **Date Received:** 7/7/2011

**Placement Location:** BRICK PIERS AT ENTRANCE

**Placement Method:**

**Placement Vol. (yd<sup>3</sup>):**

**Cylinders Made By:** ERIK COHENOUR

**Aggregate Size (in):**

### INITIAL CURING CONDITIONS

#### Temperatures

**Minimum (°F)**      **Maximum (°F)**

### DELIVERY INFORMATION

**Admixtures:**

### TEST RESULTS

**Slump (in) (C-143):**

**Batch Number:**

**Air Temp (°F):** 85

**Mixer Number:**

**Grout Temp (°F) (C-1064):**

**Ticket Number:**

**Design (psi):** 3000

| Cube Designation | Area(In) <sup>2</sup> | Date Of Test | Age (days) | Load (kips) | Strength (psi) |
|------------------|-----------------------|--------------|------------|-------------|----------------|
| 257-5A           | 10.56                 | 7/13/2011    | 7          | 31.5        | 2980 ✓         |
| 257-5B           |                       | 8/3/2011     | 28         |             |                |
| 257-5C           |                       | 8/3/2011     | 28         |             |                |
| 257-5D           |                       |              |            |             |                |

Remarks:



# Report of Mortar Compressive Strength

ASTM C109

Project Name: Portland ME - Proposed Building Expansion - Geotechnical Engineering & Material Testing Services

Project Number: 10-1077.1

Client: Biskup Construction, Inc.

Client Contract Number:

General Contractor:

Masonry Contractor:

## PLACEMENT INFORMATION

Date Cast: 7/6/2011 Time Cast: 9:00

Date Received:

Placement Location: BRICK PIERS AT ENTRANCE

Batch Method: BUCKETS

Product Manufacturer: QUIKRETE

Specimens Made By: ERIK COHENOUR

Aggregate:

## INITIAL CURING CONDITIONS

Min. Temp (°F) Max. Temp (°F)

## MIX INFORMATION

Mortar Type: S

Admixtures:

## TEST RESULTS

Air Temp (°F): 85

Mortar Temp (°F) (C-1064):

Ambient RH (%):

Flow Cone (%):

| Cube Designation | Area(In) <sup>2</sup> | Date Of Test | Age (days) | Load (kips) | Strength (psi) |
|------------------|-----------------------|--------------|------------|-------------|----------------|
| 257-4A           | 4.00                  | 7/13/2011    | 7          | 7.0         | 1750           |
| 257-4B           | 4.00                  | 7/13/2011    | 7          | 7.8         | 1950 ✓         |
| 257-4C           | 4.00                  | 7/13/2011    | 7          | 6.4         | 1600           |
| 257-4D           |                       | 8/3/2011     | 28         |             |                |
| 257-4E           |                       | 8/3/2011     | 28         |             |                |
| 257-4F           |                       | 8/3/2011     | 28         |             |                |

Remarks:

Note: ASTM C270 specifies mortar testing under laboratory conditions only for acceptance of mortar mixes under the property specification. Field sampling and testing of mortar is conducted under ASTM C780 and is used to verify consistency of materials and procedures, not mortar strength.

# Quality Assurance Labs Inc.

NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES

80 PLEASANT AVENUE • SOUTH PORTLAND, MAINE 04106 • TEL: (207) 799-8911 • FAX: (207) 799-7251

## INSPECTION REPORT

|                                       |                         |               |                           |
|---------------------------------------|-------------------------|---------------|---------------------------|
| CUSTOMER: S. W. COLE ENGINEERING      |                         |               | PAGE 1 OF 1               |
| ADDRESS: GRAY, ME.                    |                         |               |                           |
| ATTENTION: ROGER DOMINGO              |                         |               |                           |
| COPIES: FILE                          |                         |               |                           |
| PROJECT: HALE TRAILER - PORTLAND, ME. |                         |               |                           |
| OWNER: SAME                           |                         |               |                           |
| CONTRACTOR: BISKUP CONSTRUCTION       |                         |               |                           |
| JOB No.: 10-1077.1                    | REPORT No.: QAL-11-1385 | P. O. NUMBER: | DATES INSPECTED: 06-30-11 |

### REMARKS

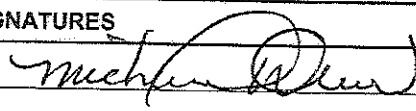
>>>>> SITE VISIT TO PERFORM VISUAL INSPECTIONS OF PRE-ENGINEERED WAREHOUSE ADDITION ; GRID LINE LOCATIONS 1 - 4 , A - E ROOF FRAMING PLAN .

- > MAIN FRAME COLUMN ANCHOR BOLTED CONNECTIONS COMPLETE .
- > MAIN FRAME TO ROOF RAFTER HIGH STRENGTH A325 BOLTED CONNECTIONS COMPLETE .
- > RAFTER TO RAFTER HIGH STRENGTH A325 BOLTED SPLICE CONNECTIONS COMPLETE .
- > WALL GIRTS TO COLUMN BOLTED CONNECTIONS COMPLETE .
- > ROOF PURLINS TO RAFTER CONNECTIONS COMPLETE , TO INCLUDE PURLIN TO RAFTER ANGLE BRACE CONNECTIONS .
- > ROOF AND WALL DIAGONAL CABLE STAY BRACE CONNECTIONS COMPLETE .

COMPLETED ITEMS COMPLY WITH SITE DOCUMENTS, AISC, AND AWS D1.1 FOR VISUAL ACCEPTANCE.

END ITEMS////

**FAA REPAIR STATION NUMBER RX5R187N**  
METHOD(S),PROCESS(ES),PROCEDURE(S) MERCURY FREE

|  |  |  |  |                                     |   |                                      |                                |
|--|--|--|--|-------------------------------------|---|--------------------------------------|--------------------------------|
| ADDITIONAL INFORMATION - SEE ATTACHED: |  |  |  | <input type="checkbox"/> SKETCH(ES) | <input type="checkbox"/> SUPPLEMENTARY SHEET(S) | <input type="checkbox"/> NDT REPORTS | <input type="checkbox"/> VIDEO |
| <b>SIGNATURES</b>                      |  |  |  |                                     |   | <b>CERTIFICATION</b>                 |                                |
| INSPECTOR M. Drew CWI # 99050211       |  |  |  | LEVEL                               |   | DATE                                 |                                |
|  |  |  |  | ASNT II                             |   | M D Y<br>06 30 11                    |                                |
| SUPERVISOR                             |  |  |  |                                     |   |                                      |                                |





**S.W. COLE**  
ENGINEERING, INC.

• Geotechnical Engineering • Field & Lab Testing • Scientific & Environmental Consulting

**CONSTRUCTION OBSERVATION REPORT**

**Project:** Hale Trailer Building Addition  
**Client:** Biskup Construction, Inc.  
**Client's Rep.:** Jim Biskup

**SWCE Project No.:** 10-1077.1  
**Date:** 7-26-11  
**Weather:** Overcast, clearing, 70s

**Work in Progress:** Biskup Construction, Inc.: Miscellaneous structure fit-up details.

**Work Performed by SWCE Rep.:** Made observations of as-built wood frame construction at entrance canopy.

**General Observations, Discussions, Etc:** As requested by Biskup Construction, we made a site visit to observe wood frame details for an 8 by 12-foot (plan dimension) entrance canopy on the south side of the existing Hale Trailer building. We met on site with Sid (Biskup Construction) and compared the observed construction and associated connections to the structural drawing provided (Sheet F-3 Foundation Details dated 3-12-2011 stamped by Associated Design Partners, Inc.). General construction and visible connections generally appeared to be as per plan. Framing consists of LVL supported 16-inches on center with 2"x8" rafters, 2"x10" ridge and 2"x6" collar ties. Rafter hold down clips and nailing patterns appeared to have been installed as detailed. The roof sheathing had been upgraded from the detailed 5/8-inch to 3/4-inch tongue and groove with the specified nailing pattern. The LVL connections to the existing structure was not readily accessible, but portions of Simpson connections utilized were evident. The masonry wrapped concrete columns supporting the free end of the roof structure had 1/2-inch threaded rod protruding for the 1/4-inch steel angles (not tightened yet, angles need shimming), however, the bolted connections between the LVL's and the angles were made with 3/8-inch diameter bolts rather than the specified 1/2-inch size. We discussed this connection with Sid and understand that they will install the specified fasteners. No other issues were noted during our visit.

INSTALLED ADD'L  
ANCHORS 7/29/11  
KBW

**On Site:** 7:00 am -8:00 am  
**Attachments:** Photos  
**Sheet:** 1 of 1

**SWC Rep.:** KBG  
**Rev. by:** RED

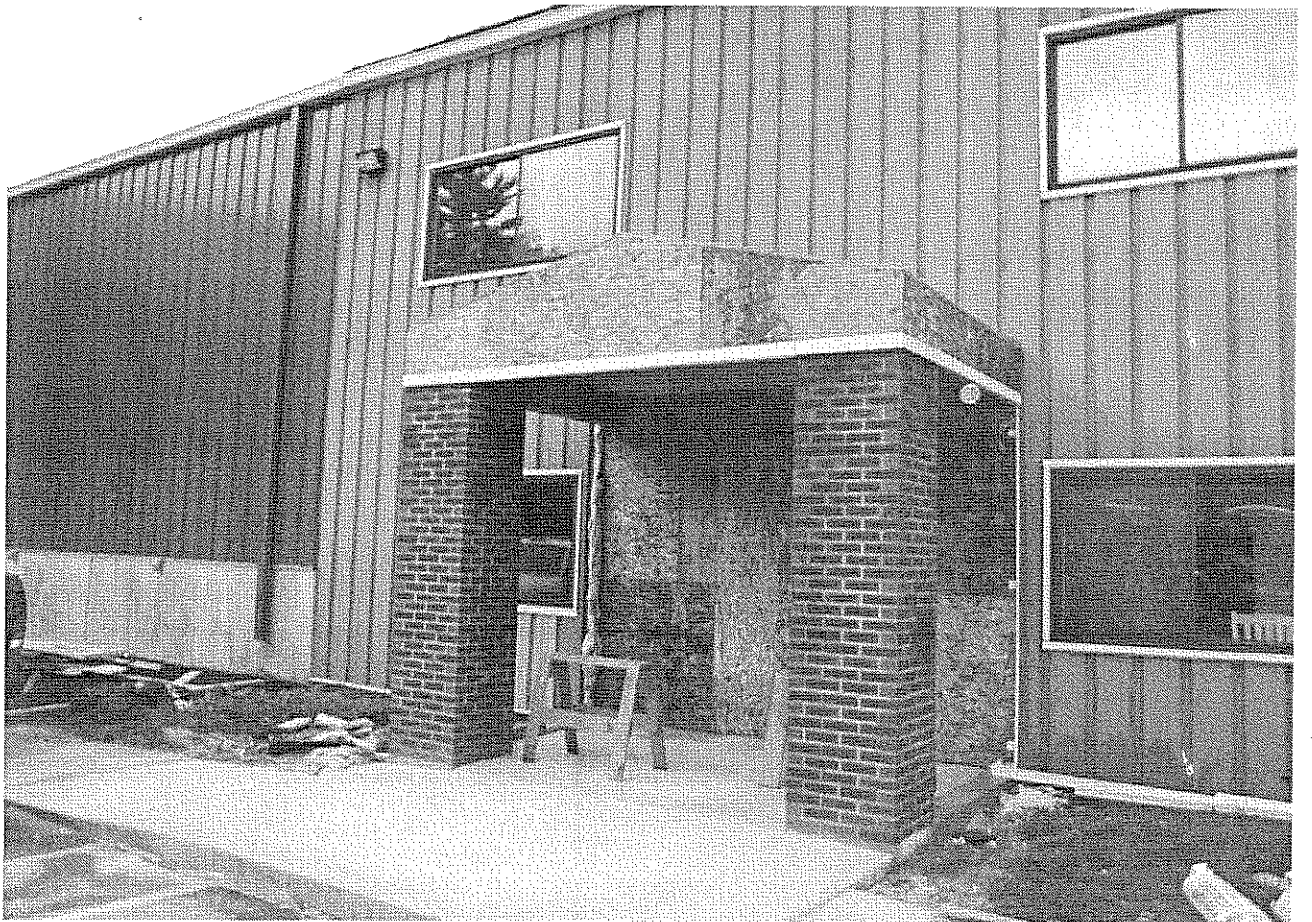
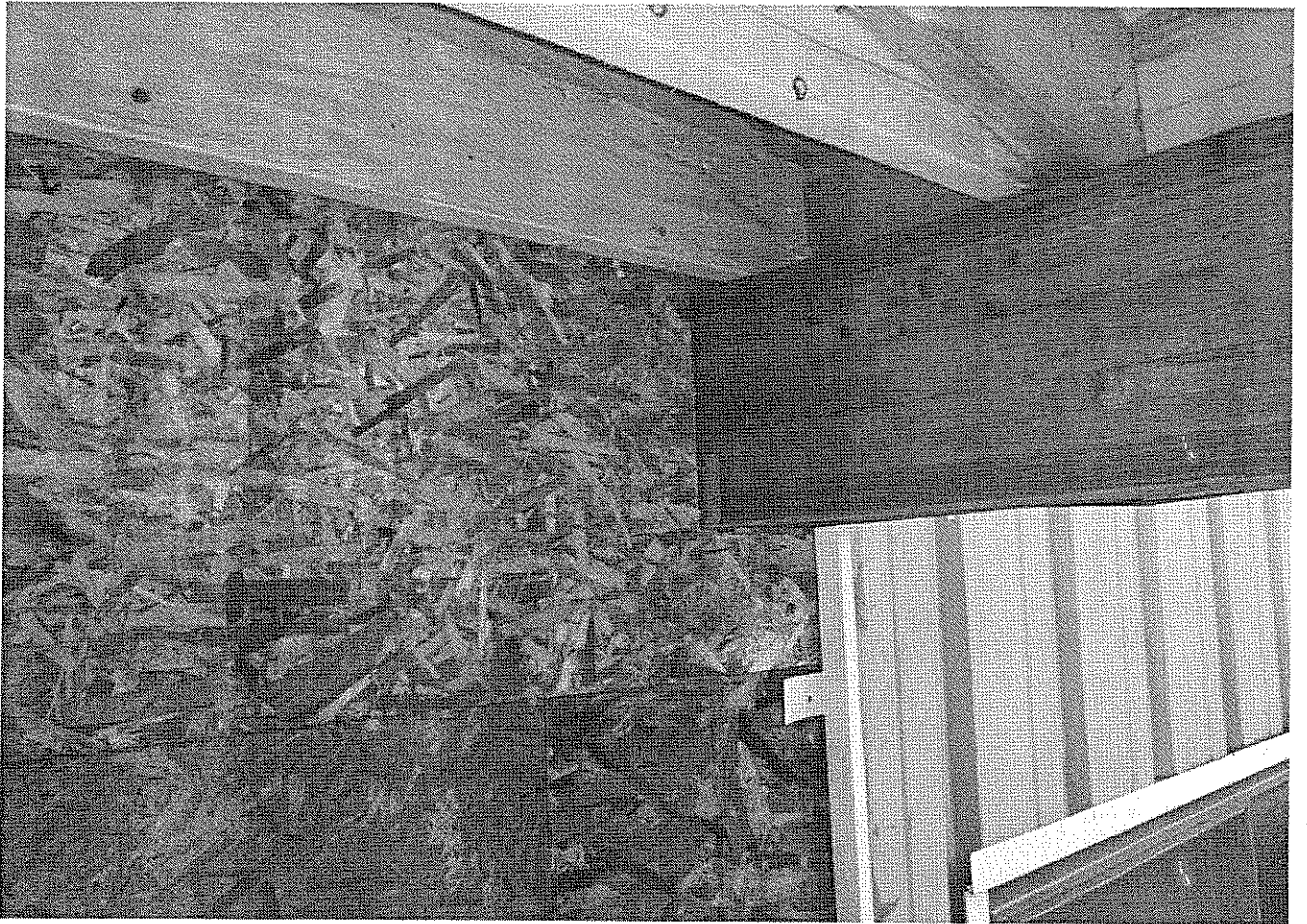
*Red*

P:\2010\10-1077.1 M - Biskup Construction, Inc. - Portland, ME - Proposed Building Expansion Hale Trailer - Materials Testing - REDICOR's\2011-7-26 COR Wood Frame.doc

GRAY, ME OFFICE

286 Portland Road, Gray, ME 04039, Tel (207) 657-2866, Fax (207) 657-2840, (E) [infogray@swcole.com](mailto:infogray@swcole.com), (I) [www.swcole.com](http://www.swcole.com)

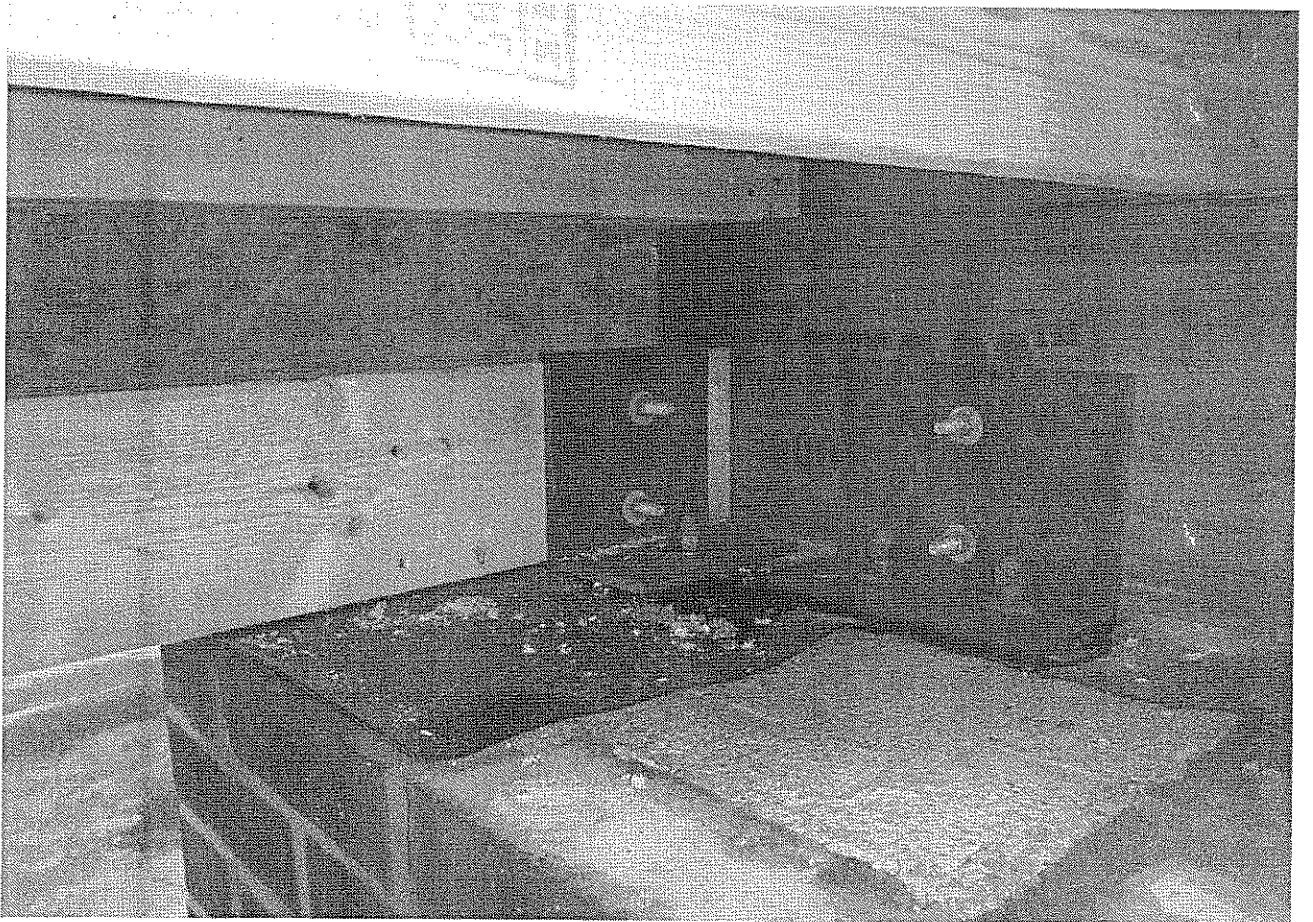
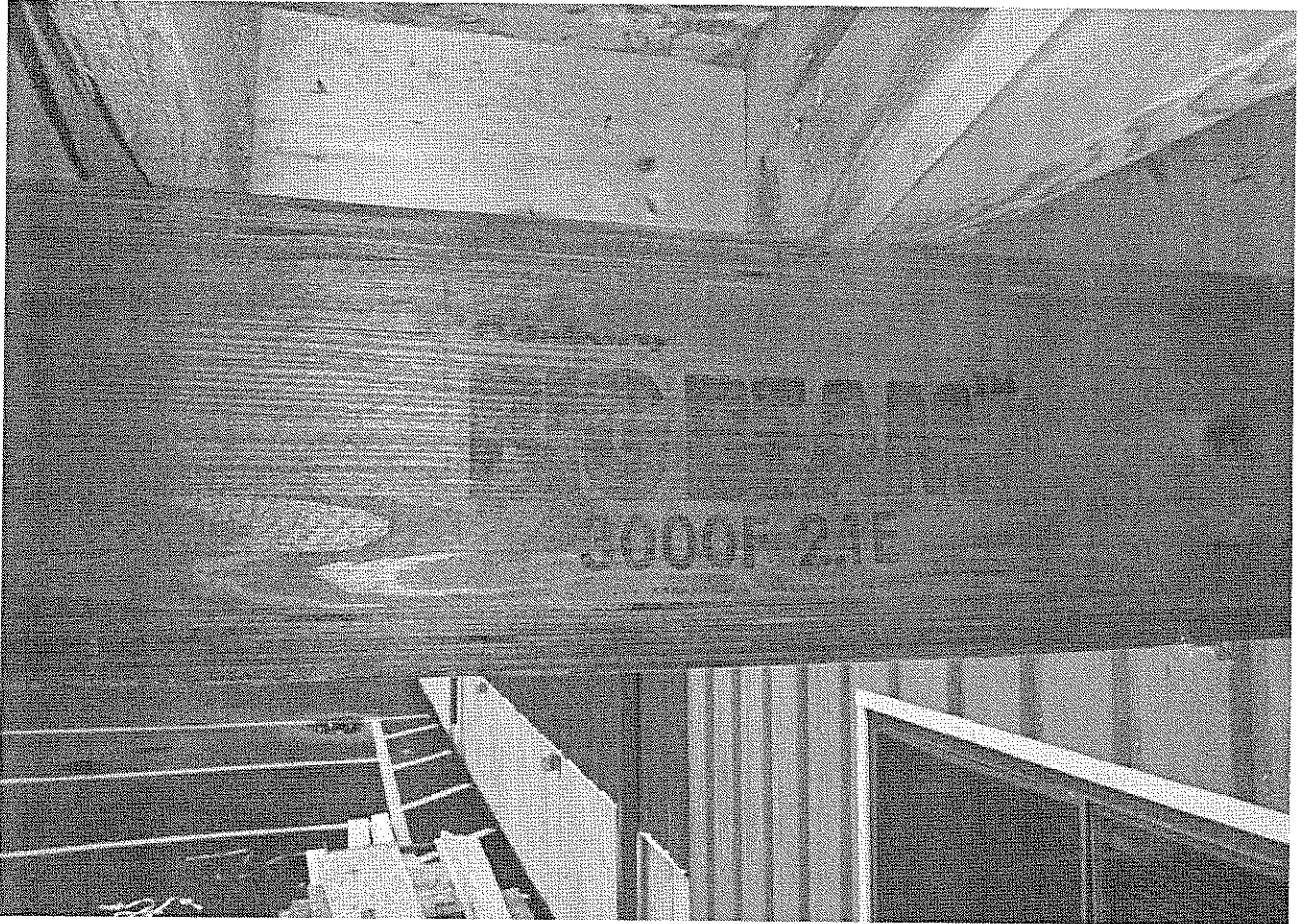
The SWCE field representative is on-site at the request of our client to provide construction materials testing and to observe and document construction activities. The contractor has sole responsibility for schedule, site safety, methods, completeness and quality of the work.













**Package Industries, Inc.**

Manufacturer of the *Package Steel Building System*<sup>™</sup>  
It's Just a Better Package<sup>™</sup>

15 Harback Road  
Sutton, Massachusetts  
01590

(800) 225-7242  
(508) 865-5871  
(FAX) 865-9130

www.packagesteel.com  
sales@packagesteel.com

Customer:  
Biskup Construction Inc.  
16 Danielle Drive  
Windham, ME 04062

Project:  
Hale Trailer  
20 Pinetree Industrial Park  
Portland, ME 04102

Date: 1/11/11  
Project ID: 11283

|        |          |           |           |        |
|--------|----------|-----------|-----------|--------|
| Width: | Length:  | Lt. Eave: | Rt. Eave: | Pitch: |
| 80 ft. | 57.5 ft. | 25.33 ft. | 22 ft.    | 0.5:12 |

To Whom It May Concern,

This letter is to certify that the subject building is designed and fabricated in accordance with the order documentation; The 13th Edition of The American Institute of Steel Construction (AISC) "Manual of Steel Construction"; the 2001 Edition of the North American United States Manual (NAUS01); the 2006 Edition of the MBMA Low Rise Building Systems Manual and the applicable sections of The American Welding Society (AWS D1.1) specifications for the loads indicated.

The criteria for application of design loads are as follows:

|                         |           |                         |             |
|-------------------------|-----------|-------------------------|-------------|
| GOVERNING CODE:         | IBC 09    | BUILDING CLASS:         | II - Normal |
| Dead Load:              | 3.000 psf | Ground Snow, Pg:        | 60.0000 psf |
| Collateral Load:        | 5 psf     | Flat Roof Snow, Pf:     | 42 psf      |
| Live Load:              | 20.00 psf | Snow Exp. Factor, Ce:   | 1.00        |
| Live Load Reduction:    | No        | Snow Therm. Factor, Ct: | 1.00        |
| Basic Wind Speed:       | 94 mph    | Snow Imp. Factor, Is:   | 1.0000      |
| Wind Exposure:          | B         | Seis. Imp. Factor, Ie:  | 1.00        |
| Enclosure Type:         | Closed    | Seis. Design Cat., SDC: | B           |
| Wind Imp. Factor, Iw:   | 1.00      | Site Class:             | D           |
| Int. Pres. Coef., GCpi: | 0.18      | Spec. Resp. Coef., Sds: | 0.3320      |
| Auxillary Load:         | None      | Spec. Resp. Coef., Sd1: | 0.1248      |

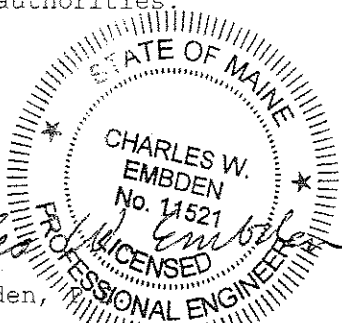
Note:

Additional components, such as panel and trims, may be fabricated and provided for use in a Package Industries, Inc. (PII) building by other manufacturers.

This Letter of Certification applies solely to the building frames and components as supplied by PII and specifically excludes any foundation, masonry, general contract work, and materials not furnished by PII. It also excludes any unauthorized modification to the PII framing systems. The Buyer is responsible for verifying that the loads, specified above, are in compliance with those required by the local regulatory authorities.

Sincerely,

*Charles Embden*  
Charles Embden,



1/19/11

International Accreditation Service

# CERTIFICATE OF ACCREDITATION

*This is to signify that*

## **PACKAGE INDUSTRIES, INC.**

15 HARBACK ROAD  
SUTTON, MASSACHUSETTS 01590

Inspection Program for the Manufacture of Metal Building Systems MB-195

has demonstrated that its in-plant inspection program for Part A-Fabrication of Structural Weldments and Cold-formed Products Requiring Welding, Part B-Fabrication of Cold-formed Products Not Requiring Welding, and Part C-Design of Metal Building Systems is in compliance with the International Accreditation Service, Inc., Accreditation Criteria for Inspection Programs for Manufacturers of Metal Building Systems (AC472) and is recognized under Section 1704.2.2 of the 2000, 2003, 2006 or 2009 *International Building Code*®, commencing December 30, 2010; expiring December 29, 2011.

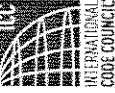
Fabrication inspection procedures covered by this certificate are conducted in accordance with the fabricator's approved quality control manual. Periodic plant inspections are conducted by Bucher, Willis & Ratliff Corporation (AA-586), at 15 Harback Road, Sutton, Massachusetts, to monitor the fabricator's quality management system verifying continual compliance with the requirements as listed in the above scope of accreditation. Accreditation is limited to the specified inspections related to the fabrication processes and procedures only. Accreditation does not cover the product, or the design or performance characteristics of the fabricated product.

  
Patrick V. McCullen  
Vice President



ACCREDITED

  
C. P. Ramani, P.E.  
President



Print Date: 01/11/2011  
IAS is a subsidiary of the  
International Code Council

This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. This certificate becomes invalid upon suspension, cancellation or revocation of accreditation. See the IAS Accreditation Listings on the web at [www.iasonline.org](http://www.iasonline.org) for current accreditation information, or contact IAS directly at (562) 639-0541.