

CITY OF SACRAMENTO

Permit No: 0114904

1231 I Street, Sacramento, CA 95814

Insp Area: 4
Thos Bros: 278 B1

Site Address: 4500 BELOIT DR SAC
Parcel No: 238-0220-013

Sub-Type: TI
Housing (Y/N): N

CONTRACTOR
MARK III ENGINEERING
5101 FLORIN PERKINS RD.
SACTO. CA. 95826

OWNER
MARK III DEVELOPMENT
5101 FLORIN-PERKINS RD
SACRAMENTO CA 95826

ARCHITECT
JON DELLING
5101 FLORIN PERKINS RD
SACRAMENTO CA 95826

Nature of Work: FIRST TIME TENANT IMPROVEMENT IN UNOCCUPIED SHELL BUILDING INCLUDING MECH., ELECTRICAL, FIRE SPRINKLER WORK

CONSTRUCTION LENDING AGENCY : I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C).

Lender's Name Lender's Address

LICENSED CONTRACTORS DECLARATION: I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code and my license is in full force and effect.

License Class B License Number 574134 Date 12/13/01 Contractor Signature [Signature]

OWNER-BUILDER DECLARATION: I hereby affirm under penalty of perjury that I am exempt from the contractors License Law for the following reason (Sec. 7031.5, Business and Professions Code; any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 8 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars (\$500.00);

I, as a owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business and Professional Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his/her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he/she did not build or improve for the purpose of sale.)

I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon) and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law.

I am exempt under Sec. B & PC for this reason:
Date Owner Signature

IN ISSUING THIS BUILDING PERMIT, the applicant represents, and the city relies on the representation of the applicant, that the applicant verified all measurements and locations shown on the application or accompanying drawings and that the proposed improvements does not violate any law or private agreement relating to permissible or prohibited locations for such improvements. This building permit does not authorize any illegal location of any improvement or the violation of any private agreement relating to location of improvements.

I certify that I have read this application and state that all information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction and hereby authorize representative(s) of this city to enter upon the abovementioned property for inspection purposes.

Date 12/13/01 Applicant/Agent Signature [Signature]

WORKER'S COMPENSATION DECLARATION: I hereby affirm under penalty of perjury one of the following declarations:
I have and will maintain a certificate of consent to self-insure for workers' compensation as provided for by Section 3700 of the Labor Code, for the performance of work for which the permit is issued.

I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier STATE FUND Policy Number 692-01 UNIT 0002087 Exp Date 10/01/2002

(This section need not be completed if the permit is for \$100 or less) I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date 12/13/01 Applicant Signature [Signature]

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST AND ATTORNEY'S FEE.

THIS PERMIT SHALL EXPIRE BY LIMITATION IF WORK IS NOT COMMENCED WITHIN 180 DAYS.

March 6, 2002

Mark III Engineering Contractors  
Attention: Jon Delling  
5101 Florin-Perkins Road  
Sacramento, CA 95826

**SUMMARY REPORT  
CONSTRUCTION OBSERVATION AND TESTING SERVICES  
BELOIT INDUSTRIAL  
BUILDING A - 4500 BELOIT DRIVE  
Sacramento, California  
Raney Reference No. 168-050.01**

**INTRODUCTION**

In accordance with your request, we have performed construction observation and testing services for the subject project. The project included construction of an approximate 31,000 square foot one-story concrete tilt-up building with a concrete slab-on-grade floor. Our construction testing and observations were performed between September 4, 2001 and January 16, 2002. Our firm prepared a Geotechnical Investigation for the project dated January 31, 2001.<sup>1</sup>

**EARTHWORK OBSERVATION AND TESTING**

***Foundation Excavation Observation***

Our representative observed all building foundation excavations prior to foundation concrete placement. All foundation excavations engaged suitable bearing materials in accord with the recommendations of our referenced report. Foundations appeared to meet or exceed minimum specified dimensions and were clean at the time of our observation.

***Pavement Construction***

Following rough grading, the upper 12 inches of the pavement subgrade soils were treated with five pounds per cubic foot of quicklime. The chemically treated soils were brought to a uniform over-optimum moisture content, thoroughly mixed, and compacted. Delivery weigh tags were observed to assure that the proper amounts of lime were added to the soil.

<sup>1</sup> Raney Geotechnical; "Geotechnical Investigation, Beloit Industrial Building, APN 238-0220-013, Beloit Drive, Sacramento, California"; File No. 168-050; January 31, 2001.

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Building A  
Raney Reference No. 168-050.01  
March 6, 2002

### ***Field Density Testing***

Our representative performed field density tests on the completed building pad and the chemically treated pavement subgrade soils in accordance with ASTM Test Designations D2922-91 and D3017-88 (Nuclear Probe Method). Our test data indicate that the upper 6 inches of the completed building pad soils and the chemically treated pavement subgrade soils were compacted to a minimum of 90 percent of the laboratory determined maximum dry density.

### ***Laboratory Compaction Testing***

We performed laboratory compaction tests on representative samples of the site soils used during earthwork construction. The compaction tests were performed in accordance with ASTM Test Designation D1557-91. The results of the laboratory compaction tests are summarized below.

<b>Material Description</b>	<b>Method</b>	<b>Maximum Dry Density (pcf)</b>	<b>Optimum Moisture Content (%)</b>
Red-brown sandy silt	A	124	8.6
Chemically treated red-brown silt	A	107	17.9

## **CONCRETE CONSTRUCTION**

### ***Reinforcing Steel Placement Observations***

Our scope of work included observation of floor slab reinforcing steel for the subject building. Detailed observations generally were performed one day prior to concrete placement with any corrections being verified by our representative prior to structural concrete placement. All floor slab reinforcing steel appeared to be placed in compliance with industry standards and the project plans, for size and placement location.

### ***Concrete Placement Observation***

Our representative observed concrete placement procedures during concrete construction of building slab-on-grade and wall panels. Concrete truck batch and placement times were recorded to ensure that the concrete was placed within a reasonable period (generally less than 90 minutes). Concrete temperatures were monitored and recorded. Concrete appeared to be placed and consolidated in general accord with industry standards.

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March 6, 2002

### ***Slump Testing***

Our representative performed concrete slump testing during concrete placement. Slump testing was generally performed at least once per 150 cubic yards of concrete in accord with ASTM Test Designation C143-90a, Slump of Portland Cement Concrete. Slump test specimens were obtained in accord with ASTM C172-90, Sampling Freshly Mixed Concrete. Slump test measurements were relayed to the contractor verbally. Our data would indicate that no significant amount of concrete was placed with an excessive slump.

### ***Compressive Strength Testing***

Generally, one set of four test specimens was cast per 150 cubic yards of concrete placed. The test specimens were returned to our laboratory for curing and compressive strength testing. Test specimens were cast, transported, and cured in accord with ASTM Test Designation C31-91, Making and Curing Concrete Test Specimens in the Field. Test specimens were stored in a humidity room complying with ASTM Specification C511-93. The test specimens were tested in unconfined compression in our laboratory at 7 and 28 days in accord with ASTM Test Designation C39-93a. Copies of compressive strength test data are attached.

## **STRUCTURAL STEEL CONSTRUCTION**

### ***Shop Welding Observations***

Our representative observed structural shop welding for panel embeds and columns. We observed welding materials and workmanship; materials and workmanship appeared to comply with project specifications, industry standards and provisions of the American Welding Society.

### ***Field Welding Observations***

Our representative observed structural field welding for panel holddowns and the roof structure connections. Prior to initiation of welding operations we reviewed qualification certificates of all project welders; our review indicated that the welder's certificates were current and applicable to the various types of project welding. We observed welding materials and procedures; welding procedures, workmanship, and materials appeared to comply with industry standards and provisions of the American Welding Society Structural Welding Code.

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March 6, 2002

Field welds were examined for visual defects or flaws; all welds appeared to be sound. In addition, we checked welded connections for conformance to project plans and specifications; all welds appeared to meet specifications for size, length and type.

### LIMITATIONS

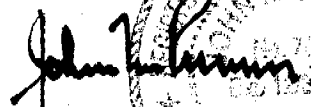
Horizontal and vertical limits of the described work were determined by others. We cannot guarantee construction, nor should our work or this letter be construed as relieving the contractors from their primary responsibility to conform to contractual agreements and sound engineering practice.

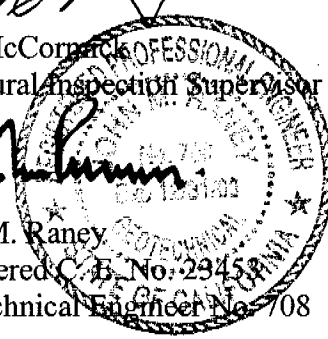
Should you have any questions regarding this letter or require any further information, please contact our office.

Very truly yours,

**RANEY GEOTECHNICAL, INC.**

  
Bob McCormick  
Structural Inspection Supervisor

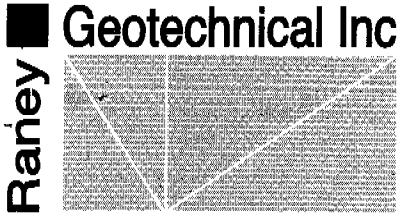
  
John M. Raney  
Registered C. E. No. 23458  
Geotechnical Engineer No. 708



Attachments: Compressive Strength Reports

(2) Addressee

BM/JMR/JB



# Compressive Strength Report

(ASTM METHOD C-39)

**PROJECT #:** 168-050.01      **SAMPLE ID:** 01-01127

**PROJECT NAME:** Beloit Industrial Building

Mark III Engineering Contractors

**LOCATION:** Beloit Drive

Attention: Price Airies

**PERMIT NO:**

5101 Florin-Perkins Road

Sacramento, CA 95826

**SAMPLE DATA**

<b>DATE SAMPLED:</b>	9/17/01	<b>TICKET #:</b>	110431
<b>MATERIAL TYPE:</b>	Concrete	<b>MIX DESIGN:</b>	00A4541A
<b>SAMPLED BY:</b>	Chris B.	<b>SLUMP:</b>	4 inches
<b>SPEC. STRENGTH:</b>	2500 psi	<b>AIR TEMP:</b>	71 Degrees F
<b>SUPPLIER:</b>	Teichert & Son, Inc.	<b>MIX TEMP:</b>	73 Degrees F
<b>AIR ENTRAINMENT:</b>			
<b>LOCATION:</b> Building A - Footing - Southeast Loading Dock			

**STRENGTH RESULTS**

SAMPLE	AGE(days)	ULTIMATE LOAD(lbs)	AREA(sq. inches)	BREAK DATE	STRENGTH (psi)
A	7	64500	28.27	9/24/01	2282
B	28	91000	28.27	10/15/01	3219
C	28	95600	28.27	10/15/01	3382
HOLD	56		28.27	11/12/01	

- Meets 28 day strength requirement
- Does not meet 28 day strength requirement
- No strength requirement given

Notes:

CC:

Teichert & Son, Inc.

Reviewed By: BB A

# Compressive Strength Report

(ASTM METHOD C-39)

**PROJECT #:** 168-050.01      **SAMPLE ID:** 01-01146

**PROJECT NAME:** Beloit Industrial Building

Mark III Engineering Contractors  
 Attention: Price Airies  
 5101 Florin-Perkins Road  
 Sacramento, CA 95826

**LOCATION:** Beloit Drive  
**PERMIT NO:**

**SAMPLE DATA**

<b>DATE SAMPLED:</b>	9/20/01	<b>TICKET #:</b>	119417
<b>MATERIAL TYPE:</b>	Concrete	<b>MIX DESIGN:</b>	00A4541A
<b>SAMPLED BY:</b>	Doug L.	<b>SLUMP:</b>	4 inches
<b>SPEC. STRENGTH:</b>	2500 psi	<b>AIR TEMP:</b>	85 Degrees F
<b>SUPPLIER:</b>	Teichert & Son, Inc.	<b>MIX TEMP:</b>	76 Degrees F
<b>AIR ENTRAINMENT:</b>			
<b>LOCATION:</b> Building A - Footing - Lines K/5			

**STRENGTH RESULTS**

SAMPLE	AGE(days)	ULTIMATE LOAD(lbs.)	AREA(sq. inches)	BREAK DATE	STRENGTH (psi)
A	7	52500	28.27	9/27/01	1857
B	28	80200	28.27	10/18/01	2837
C	28	82900	28.27	10/18/01	2932
HOLD	56		28.27	11/15/01	

- Meets 28 day strength requirement
- Does not meet 28 day strength requirement
- No strength requirement given

Notes:

CC:

Teichert & Son, Inc.

Reviewed By: BBVJ

# Compressive Strength Report

(ASTM METHOD C-39)

**PROJECT #:** 168-050.01      **SAMPLE ID:** 01-01245

**PROJECT NAME:** Beloit Industrial Building

Mark III Engineering Contractors  
 Attention: Price Airies  
 5101 Florin-Perkins Road  
 Sacramento, CA 95826

**LOCATION:** Beloit Drive

**PERMIT NO:**

**SAMPLE DATA**

<b>DATE SAMPLED:</b>	10/8/01	<b>TICKET #:</b>	121183
<b>MATERIAL TYPE:</b>	Concrete	<b>MIX DESIGN:</b>	A5041A
<b>SAMPLED BY:</b>	Doug L.	<b>SLUMP:</b>	4.75 inches
<b>SPEC. STRENGTH:</b>	3000 psi	<b>AIR TEMP:</b>	60 Degrees F
<b>SUPPLIER:</b>	Teichert & Son, Inc.	<b>MIX TEMP:</b>	76 Degrees F
<b>AIR ENTRAINMENT:</b>			
<b>LOCATION:</b> Building A - Slab-on-Grade - Grid 3.5 at H			

**STRENGTH RESULTS**

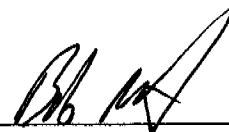
SAMPLE	AGE(days)	ULTIMATE LOAD(lbs.)	AREA(sq. inches)	BREAK DATE	STRENGTH(psi)
A	7	68000	28.27	10/15/01	2405
B	28	100800	28.27	11/5/01	3566
C	28	107600	28.27	11/5/01	3806
HOLD	56		28.27	12/3/01	

- Meets 28 day strength requirement
- Does not meet 28 day strength requirement
- No strength requirement given

Notes:

CC:

Teichert & Son, Inc.

Reviewed By: 



# Compressive Strength Report

(ASTM METHOD C-39)

**PROJECT #:** 168-050.01      **SAMPLE ID:** 01-01246

**PROJECT NAME:** Beloit Industrial Building

Mark III Engineering Contractors  
 Attention: Price Airies  
 5101 Florin-Perkins Road  
 Sacramento, CA 95826

**LOCATION:** Beloit Drive  
**PERMIT NO:**

**SAMPLE DATA**

<b>DATE SAMPLED:</b>	10/8/01	<b>TICKET #:</b>	121168
<b>MATERIAL TYPE:</b>	Concrete	<b>MIX DESIGN:</b>	A5041A
<b>SAMPLED BY:</b>	Doug L.	<b>SLUMP:</b>	4.5 inches
<b>SPEC. STRENGTH:</b>	3000 psi	<b>AIR TEMP:</b>	59 Degrees F
<b>SUPPLIER:</b>	Teichert & Son, Inc.	<b>MIX TEMP:</b>	78 Degrees F
<b>AIR ENTRAINMENT:</b>			
<b>LOCATION:</b> Building A - Slab-on-Grade - Grids G and 4.1			

**STRENGTH RESULTS**

SAMPLE	AGE(days)	ULTIMATE LOAD(lbs)	AREA(sq. inches)	BREAK DATE	STRENGTH (psi)
A	7	65000	28.27	10/15/01	2299
B	28	97500	28.27	11/5/01	3449
C	28	103600	28.27	11/5/01	3665
HOLD	56		28.27	12/3/01	

- Meets 28 day strength requirement
- Does not meet 28 day strength requirement
- No strength requirement given

Notes:

CC:

Teichert & Son, Inc.

Reviewed By: BAK

# Compressive Strength Report

(ASTM METHOD C-39)

**PROJECT #:** 168-050.01      **SAMPLE ID:** 01-01247

**PROJECT NAME:** Beloit Industrial Building

Mark III Engineering Contractors  
 Attention: Price Airies  
 5101 Florin-Perkins Road  
 Sacramento, CA 95826

**LOCATION:** Beloit Drive  
**PERMIT NO:**

**SAMPLE DATA**

<b>DATE SAMPLED:</b>	10/8/01	<b>TICKET #:</b>	121153
<b>MATERIAL TYPE:</b>	Concrete	<b>MIX DESIGN:</b>	A5041A
<b>SAMPLED BY:</b>	Doug L.	<b>SLUMP:</b>	4.25 inches
<b>SPEC. STRENGTH:</b>	3000 psi	<b>AIR TEMP:</b>	57 Degrees F
<b>SUPPLIER:</b>	Teichert & Son, Inc.	<b>MIX TEMP:</b>	76 Degrees F
<b>AIR ENTRAINMENT:</b>			
<b>LOCATION:</b> Building A - Slab-on-Grade - Grids G and 5			

**STRENGTH RESULTS**

SAMPLE	AGE(days)	ULTIMATE LOAD(lbs.)	AREA(sq. inches)	BREAK DATE	STRENGTH(psi)
A	7	78500	28.27	10/15/01	2777
B	28	108600	28.27	11/5/01	3842
C	28	103000	28.27	11/5/01	3643
HOLD	56		28.27	12/3/01	

- Meets 28 day strength requirement
- Does not meet 28 day strength requirement
- No strength requirement given

Notes:

CC:

Teichert & Son, Inc.

Reviewed By: Bob A

# Compressive Strength Report

(ASTM METHOD C-39)

**PROJECT #:** 168-050.01      **SAMPLE ID:** 01-01364

**PROJECT NAME:** Beloit Industrial Building

Mark III Engineering Contractors

**LOCATION:** Beloit Drive

Attention: Price Airies

**PERMIT NO:**

5101 Florin-Perkins Road

Sacramento, CA 95826

**SAMPLE DATA**

<b>DATE SAMPLED:</b>	11/1/01	<b>TICKET #:</b>	114645
<b>MATERIAL TYPE:</b>	Concrete	<b>MIX DESIGN:</b>	00A5741C
<b>SAMPLED BY:</b>	A.J. M.	<b>SLUMP:</b>	4.75 inches
<b>SPEC. STRENGTH:</b>	4000 psi	<b>AIR TEMP:</b>	41 Degrees F
<b>SUPPLIER:</b>	Teichert & Son, Inc.	<b>MIX TEMP:</b>	65 Degrees F
<b>AIR ENTRAINMENT:</b>			
<b>LOCATION:</b> Building A - Wall Panel #4			

**STRENGTH RESULTS**

SAMPLE	AGE(days)	ULTIMATE LOAD(lbs.)	AREA(sq. inches)	BREAK DATE	STRENGTH (psi)
A	7	95000	28.27	11/8/01	3360
B	28	125400	28.27	11/29/01	4436
C	28	119100	28.27	11/29/01	4213
HOLD	56		28.27	12/27/01	

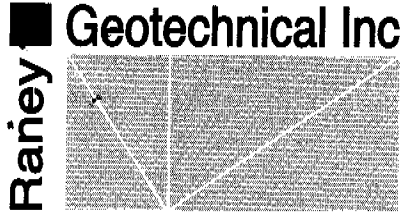
- Meets 28 day strength requirement
- Does not meet 28 day strength requirement
- No strength requirement given

Notes:

CC:

Teichert & Son, Inc.

Reviewed By: *[Signature]*



# Compressive Strength Report

(ASTM METHOD C-39)

**PROJECT #:** 168-050.01      **SAMPLE ID:** 01-01365

**PROJECT NAME:** Beloit Industrial Building

Mark III Engineering Contractors

**LOCATION:** Beloit Drive

Attention: Price Airies

**PERMIT NO:**

5101 Florin-Perkins Road

Sacramento, CA 95826

**SAMPLE DATA**

<b>DATE SAMPLED:</b>	11/1/01	<b>TICKET #:</b>	114659
<b>MATERIAL TYPE:</b>	Concrete	<b>MIX DESIGN:</b>	00A5741C
<b>SAMPLED BY:</b>	A.J. M.	<b>SLUMP:</b>	4.5 inches
<b>SPEC. STRENGTH:</b>	4000 psi	<b>AIR TEMP:</b>	46 Degrees F
<b>SUPPLIER:</b>	Teichert & Son, Inc.	<b>MIX TEMP:</b>	63 Degrees F
<b>AIR ENTRAINMENT:</b>			
<b>LOCATION:</b> Building A - Wall Panel #10			

**STRENGTH RESULTS**

SAMPLE	AGE(days)	ULTIMATE LOAD(lbs.)	AREA(sq. inches)	BREAK DATE	STRENGTH (psi)
A	7	89100	28.27	11/8/01	3152
B	28	119400	28.27	11/29/01	4224
C	28	120700	28.27	11/29/01	4270
HOLD	56		28.27	12/27/01	

- Meets 28 day strength requirement
- Does not meet 28 day strength requirement
- No strength requirement given

Notes:

CC:

Teichert & Son, Inc.

Reviewed By:

# Compressive Strength Report

(ASTM METHOD C-39)

**PROJECT #:** 168-050.01      **SAMPLE ID:** 01-01370

**PROJECT NAME:** Beloit Industrial Building

Mark III Engineering Contractors  
 Attention: Price Airies  
 5101 Florin-Perkins Road  
 Sacramento, CA 95826

**LOCATION:** Beloit Drive  
**PERMIT NO:**

**SAMPLE DATA**

<b>DATE SAMPLED:</b>	11/2/01	<b>TICKET #:</b>	114732
<b>MATERIAL TYPE:</b>	Concrete	<b>MIX DESIGN:</b>	A5741C
<b>SAMPLED BY:</b>	A.J. M.	<b>SLUMP:</b>	4.75 inches
<b>SPEC. STRENGTH:</b>	4000 psi	<b>AIR TEMP:</b>	45 Degrees F
<b>SUPPLIER:</b>	Teichert & Son, Inc.	<b>MIX TEMP:</b>	61 Degrees F
<b>AIR ENTRAINMENT:</b>			
<b>LOCATION:</b> Building A - Wall Panel #17			

**STRENGTH RESULTS**

SAMPLE	AGE(days)	ULTIMATE LOAD(lbs.)	AREA(sq. inches)	BREAK DATE	STRENGTH (psi)
A	7	87300	28.27	11/9/01	3088
B	28	117600	28.27	11/30/01	4160
C	28	116800	28.27	11/30/01	4132
HOLD	56		28.27	12/28/01	

- Meets 28 day strength requirement
- Does not meet 28 day strength requirement
- No strength requirement given

Notes:

CC:

Teichert & Son, Inc.

Reviewed By: *[Signature]*