

July 27, 2018

Jonathan Rioux  
Inspections Director  
City of Portland Maine  
389 Congress Street  
Portland, ME 04101  
jrioux@portlandmaine.gov

**RE: 35 Pleasant Street/6 South Street Special Inspections  
Portland, ME**

Dear Jonathan,

I served as the Structural Engineer of Record for the renovations and additions to the building located at the corner of Pleasant and South Streets as noted by the above address. I was personally responsible for the structural design and provided periodic on-site review of construction for conformance with the design intent. I interacted with the contractor, architect and owner and resolved any structural related construction discrepancies or owner directed design changes to ensure the structure complies with the structural design intent.

Concrete testing and rebar inspections were provided by SW Cole and steel bolt and weld inspections were performed by White Engineering, LLC.

I am attaching test reports for your record. Please note that the 28-day concrete strength test for the garage slab came up a bit low but it is not a structural concern. I am also confident that the 56-day break of the remaining slab cylinder will come up to the specified design strength of 3,000 psi.

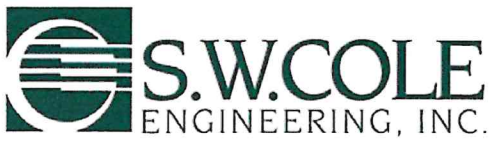
I trust this letter and the attached reports will satisfy the City of Portland's inspection requirements. If you have any questions or concerns, please contact me. Thank you.

Sincerely,  
**Becker Structural Engineers, Inc.**

Paul B. Becker, PE, SECB  
President



Cc via email Jeanine Bourke  
jbourke@portlandmaine.gov



# Concrete Construction Observation Report

Project Name:	Reitter Residence	Project No. :	17-1399
Location:	6 South St. Portland, ME	Date:	11-20-17
Client / Client's Rep:	M.R. Brewer	S.W.COLE Rep. :	A. Boyce
Placement Location:	Building Footings	Arrived on Site:	12:00p
Placement Type:	Concrete	Left Site:	3:00p

<u>Pre-Placement Observations</u>	<u>In Compliance</u>		
Bar size and location (diameter, length, bend and coverage)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	By others
Splicing (type, overlap)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Stability (wiring, chairs, spacers)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Reinforcement conditions (cleanliness, temperature, etc.)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Embedments and anchor bolts installed	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Soil subgrade prepared in accordance with project specifications	Yes <input type="checkbox"/>	No <input type="checkbox"/>	

Referenced Drawings	Date	Page(s)	Rev.	Bar Reinforcing Grade & Type
				ASTM:
				GRADE:

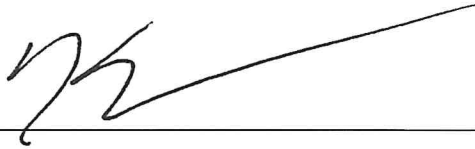
<u>Concrete Placement Observations</u>	<u>In Compliance</u>		<u>Comments</u>
Required mix used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	3000 PSI W/Air
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Direct
Internal vibration / consolidation of concrete	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Mechanical
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Wet Stuck Dowels
Post placement observations (finishing, curing, etc.)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A

**Field Testing of Concrete Performed** Yes  No   
 \*CYLINDER SET NO: 982 – 1 ←\*refer to associated concrete test report

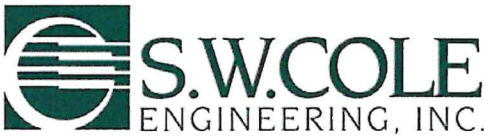
**Non-Conformance Items**  
 Person Notified: \_\_\_\_\_ Yes  No

**Notes:**

S.W. COLE was onsite to perform concrete field testing as requested. Concrete was scheduled for 12:30pm and did not arrive until 1:45pm. The mix provided by Hissong Concrete was a 3000PSI exterior mix containing a mid-range water reducer and air entrainment. Upon arrival the mix was tested for initial air and temperature and found to be within the acceptable ranges. A mid-load sample was taken off the 1<sup>st</sup> load and one set of four test specimens were cast for laboratory compression testing at a later date before S.W. COLE's departure.

Attachments: NONE Reviewed by: 

The S.W.COLE 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 control.



# Concrete Construction Observation Report

<b>Project Name:</b>	Reitter Residence	<b>Project No. :</b>	17-1399
<b>Location:</b>	6 South St. Portland, ME	<b>Date:</b>	12-7-17
<b>Client / Client's Rep:</b>	M.R. Brewer	<b>S.W.COLE Rep. :</b>	A. Boyce
<b>Placement Location:</b>	Building Foundation walls	<b>Arrived on Site:</b>	2:30p
<b>Placement Type:</b>	Concrete	<b>Left Site:</b>	4:30p

<u>Pre-Placement Observations</u>	<u>In Compliance</u>		
Bar size and location (diameter, length, bend and coverage)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	By others _____
Splicing (type, overlap)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	_____
Stability (wiring, chairs, spacers)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	_____
Reinforcement conditions (cleanliness, temperature, etc.)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	_____
Embedments and anchor bolts installed	Yes <input type="checkbox"/>	No <input type="checkbox"/>	_____
Soil subgrade prepared in accordance with project specifications	Yes <input type="checkbox"/>	No <input type="checkbox"/>	_____

Referenced Drawings	Date	Page(s)	Rev.	Bar Reinforcing Grade & Type
				ASTM:
				GRADE:

<u>Concrete Placement Observations</u>	<u>In Compliance</u>		<u>Comments</u>
Required mix used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	3000 PSI W/Air
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Direct
Internal vibration / consolidation of concrete	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Mechanical
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Anchor Bolts cast in place
Post placement observations (finishing, curing, etc.)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A

**Field Testing of Concrete Performed** Yes  No   
 \*CYLINDER SET NO: 982 – 3 ←\*refer to associated concrete test report

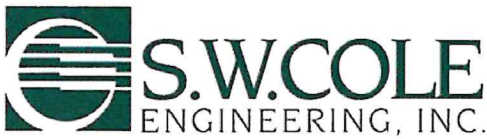
**Non-Conformance Items**  
 Person Notified: \_\_\_\_\_ Yes  No

**Notes:**

S.W. COLE was onsite to perform concrete field testing as requested. The mix provided by Hissong Concrete was a 3000PSI exterior mix containing a high-range water reducer and air entrainment. A mid-load sample was taken off the 1<sup>st</sup> load and one set of four test specimens were cast for laboratory compression testing at a later date before S.W. COLE's departure.

Attachments: NONE

Reviewed by: 



# Concrete Construction Observation Report

<b>Project Name:</b>	Reitter Residence	<b>Project No. :</b>	17-1399
<b>Location:</b>	7 South St, Portland	<b>Date:</b>	6-26-18
<b>Client / Client's Rep:</b>	M. R. Brewer – Matt / Dale	<b>S.W.COLE Rep. :</b>	C. Booth
<b>Placement Location:</b>	Garage floor	<b>Arrived on Site:</b>	8:45
<b>Placement Type:</b>	Slab	<b>Left Site:</b>	12:30

<u>Pre-Placement Observations</u>	<u>In Compliance</u>		
Bar size and location (diameter, length, bend and coverage)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Observed by others
Splicing (type, overlap)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Stability (wiring, chairs, spacers)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Reinforcement conditions (cleanliness, temperature, etc.)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Embedments and anchor bolts installed	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Soil subgrade prepared in accordance with project specifications	Yes <input type="checkbox"/>	No <input type="checkbox"/>	

Referenced Drawings	Date	Page(s)	Rev.	Bar Reinforcing Grade & Type
				ASTM:
				GRADE:

<u>Concrete Placement Observations</u>	<u>In Compliance</u>		<u>Comments</u>
Required mix used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	3000 psi interior mix with water reducer
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Truck plus additional 10' chute
Internal vibration / consolidation of concrete	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Mechanical vibrator
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Graded flat with opening
Post placement observations (finishing, curing, etc.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Roughly finished

**Field Testing of Concrete Performed**      Yes     No

\*CYLINDER SET NO:    982-4      ←\*refer to associated concrete test report

**Non-Conformance Items**

**Person Notified:** \_\_\_\_\_ Yes     No  \_\_\_\_\_

**Notes:**

S.W. Cole was onsite to perform concrete field testing as requested by M. R. Brewer. The mix supplied by Hissong concrete was a 3000 Psi, 3/4" aggregate mix containing a high range water reducer. Concrete field testing was performed, all test results were reported to Dale and Matt (M.R. Brewer). Initial air test showed a 3.4% reading. Phil (Hissong) added about 16 Oz de-foamer. Air was tested again and was determined to be 2.9%. Placement began and tests were conducted at mid-load and a set of cylinders were cast for compressive strength testing. Mid-load air was determined to be 2%, slump was: 4 1/4 inches.

Attachments: None      Reviewed by: 

**Project Name:** Portland ME - Reitter Residence - Construction Materials Testing Services

**Project Number:** 17-1399

**Client:** M. R. Brewer Construction, LLC

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** HISSONG CONCRETE

**PLACEMENT INFORMATION**

**Date Cast:** 11/20/2017    **Time Cast:** 2:10    **Date Received:** 11/21/2017

**Placement Location:** BUILDING FOOTINGS

**Placement Method:** DIRECT DISCHARGE

**Placement Vol. (yd<sup>3</sup>):** 15.5

**Cylinders Made By:** AIDAN BOYCE

**Aggregate Size (in):** 3/4

**INITIAL CURING CONDITIONS**

**Temperatures**

**Minimum (°F)** 37    **Maximum (°F)** 56

**DELIVERY INFORMATION**

**Admixtures:** MICRO AIR / MID-RANGE

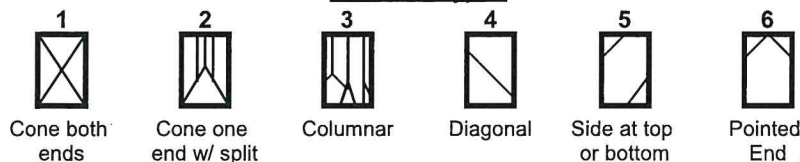
**TEST RESULTS**

**Slump (in) (C-143):** 4  
**Air Content (%) (C-231)** 6.2  
**Air Temp (°F):** 38  
**Conc. Temp (°F) (C-1064):** 62

**Load Number:** 1    **Batch** 1:10  
**Mixer Number** 303  
**Ticket Number** 7647    **Arrive** 1:45  
**Cubic Yards:** 8    **Depart** 2:25  
**Design (psi):** 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)
982-1A	8.15	4.01	12.60	11/27/2017	Lab	7	5	38.2	3030
982-1B	8.15			12/18/2017	Lab	28			
982-1C	8.15			12/18/2017	Lab	28			
982-1D	8.15			Hold	Lab				

**Fracture Types**



Remarks:



## Report of Concrete Compressive Strength

ASTM C-31 &amp; C-39

**Project Name:** Portland ME - Reitter Residence - Construction Materials Testing Services

**Project Number:** 17-1399

**Client:** M. R. Brewer Construction, LLC

**Client Contract Number:**
**General Contractor:**
**Concrete Supplier:** HISSONG CONCRETE

### PLACEMENT INFORMATION

**Date Cast:** 11/20/2017      **Time Cast:** 2:10      **Date Received:** 11/21/2017

**Placement Location:** BUILDING FOOTINGS

**Placement Method:** DIRECT DISCHARGE

**Placement Vol. (yd³):** 15.5

**Cylinders Made By:** AIDAN BOYCE

**Aggregate Size (in):** 3/4

### INITIAL CURING CONDITIONS

#### Temperatures

**Minimum (°F)** 37      **Maximum (°F)** 56

### DELIVERY INFORMATION

**Admixtures:** MICRO AIR / MID-RANGE

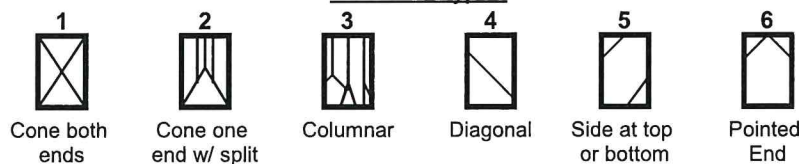
### TEST RESULTS

**Slump (in) (C-143):** 4  
**Air Content (%) (C-231)** 6.2  
**Air Temp (°F):** 38  
**Conc. Temp (°F) (C-1064):** 62

**Load Number:** 1      **Batch** 1:10  
**Mixer Number** 303  
**Ticket Number** 7647      **Arrive** 1:45  
**Cubic Yards:** 8      **Depart** 2:25  
**Design (psi):** 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)
982-1A	8.15	4.01	12.60	11/27/2017	Lab	7	5	38.2	3030
982-1B	8.15	3.99	12.48	12/18/2017	Lab	28	4	55.2	4420
982-1C	8.15	4.01	12.62	12/18/2017	Lab	28	5	51.6	4090
982-1D	8.15			Hold	Lab				

#### Fracture Types



Remarks:

## Report of Concrete Compressive Strength

ASTM C-31 &amp; C-39

**Project Name:** Portland ME - Reitter Residence - Construction Materials Testing Services

**Project Number:** 17-1399

**Client:** M. R. Brewer Construction, LLC

**Client Contract Number:**
**General Contractor:**
**Concrete Supplier:** HISSONG CONCRETE

### PLACEMENT INFORMATION

**Date Cast:** 11/29/2017    **Time Cast:** 11:45    **Date Received:** 11/30/2017

**Placement Location:** RETAINING WALL

**Placement Method:** DIRECT DISCHARGE

**Placement Vol. (yd<sup>3</sup>):** 6

**Cylinders Made By:** PETER PHELAN

**Aggregate Size (in):** 3/4

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** HRWR / AIR ENTRAINMENT

### TEST RESULTS

**Slump (in) (C-143):** 7 1/2

**Load Number:** 1    **Batch:** 10:31

**Air Content (%) (C-231)** 7.7

**Mixer Number:** 317

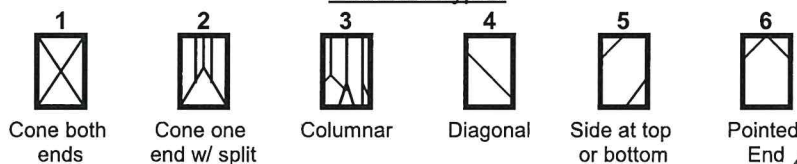
**Air Temp (°F):** 44

**Ticket Number:** 7709    **Arrive**
**Conc. Temp (°F) (C-1064):** 63

**Cubic Yards:** 6    **Depart**
**Design (psi):** 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)
982-2A	7.80	4.01	12.61	12/6/2017	Lab	7	5	27.8	2210
982-2B	7.80	4.02	12.67	12/27/2017	Lab	28	4	36.4	2870
982-2C	7.80	4.00	12.54	12/27/2017	Lab	28	4	35.4	2820
982-2D	7.80	4.01	12.62	1/24/2018	Lab	56	4	61.4	4870

#### Fracture Types



Remarks:

**Project Name:** Portland ME - Reitter Residence - Construction Materials Testing Services

**Project Number:** 17-1399

**Client:** M. R. Brewer Construction, LLC

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** HISSONG CONCRETE

### PLACEMENT INFORMATION

**Date Cast:** 11/29/2017    **Time Cast:** 11:45    **Date Received:** 11/30/2017

**Placement Location:** RETAINING WALL

**Placement Method:** DIRECT DISCHARGE

**Placement Vol. (yd³):** 6

**Cylinders Made By:** PETER PHELAN

**Aggregate Size (in):** 3/4

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** HRWR / AIR ENTRAINMENT

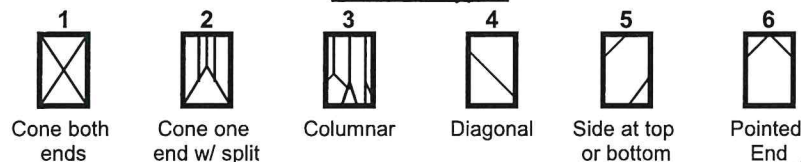
### TEST RESULTS

**Slump (in) (C-143):** 7 1/2  
**Air Content (%) (C-231)** 7.7  
**Air Temp (°F):** 44  
**Conc. Temp (°F) (C-1064):** 63

**Load Number:** 1    **Batch**  
**Mixer Number** 317    10:31  
**Ticket Number** 7709    **Arrive**  
**Cubic Yards:** 6    **Depart**  
**Design (psi):** 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)
982-2A	7.80	4.01	12.61	12/6/2017	Lab	7	5	27.8	2210
982-2B	7.80	4.02	12.67	12/27/2017	Lab	28	4	36.4	2870
982-2C	7.80	4.00	12.54	12/27/2017	Lab	28	4	35.4	2820
982-2D	7.80			1/24/2018	Lab	56			

#### Fracture Types



Remarks:







# Report of Concrete Compressive Strength

ASTM C-31 & C-39

**Project Name:** Portland ME - Reitter Residence - Construction Materials Testing Services

**Project Number:** 17-1399

**Client:** M. R. Brewer Construction, LLC

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** HISSONG CONCRETE

## PLACEMENT INFORMATION

**Date Cast:** 11/29/2017      **Time Cast:** 11:45      **Date Received:** 11/30/2017

**Placement Location:** RETAINING WALL

**Placement Method:** DIRECT DISCHARGE

**Placement Vol. (yd³):** 6

**Cylinders Made By:** PETER PHELAN

**Aggregate Size (in):** 3/4

## INITIAL CURING CONDITIONS

### Temperatures

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

## DELIVERY INFORMATION

**Admixtures:** HRWR / AIR ENTRAINMENT

## TEST RESULTS

**Slump (in) (C-143):** 7 1/2

**Load Number:** 1      **Batch** 10:31

**Air Content (%) (C-231)** 7.7

**Mixer Number** 317

**Air Temp (°F):** 44

**Ticket Number** 7709      **Arrive**

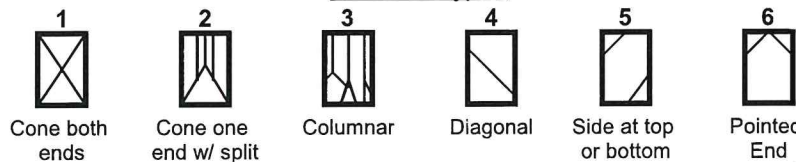
**Conc. Temp (°F) (C-1064):** 63

**Cubic Yards:** 6      **Depart**

**Design (psi):** 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)
982-2A	7.80	4.01	12.61	12/6/2017	Lab	7	5	27.8	2210
982-2B	7.80	4.02	12.67	12/27/2017	Lab	28	4	36.4	2870
982-2C	7.80	4.00	12.54	12/27/2017	Lab	28	4	35.4	2820
982-2D	7.80			1/24/2018	Lab	56			

### Fracture Types



Remarks:

## Report of Concrete Compressive Strength

ASTM C-31 &amp; C-39

**Project Name:** Portland ME - Reitter Residence - Construction Materials Testing Services

**Project Number:** 17-1399

**Client:** M. R. Brewer Construction, LLC

**Client Contract Number:**
**General Contractor:**
**Concrete Supplier:** HISSONG CONCRETE

### PLACEMENT INFORMATION

**Date Cast:** 11/29/2017    **Time Cast:** 11:45    **Date Received:** 11/30/2017

**Placement Location:** RETAINING WALL

**Placement Method:** DIRECT DISCHARGE

**Placement Vol. (yd<sup>3</sup>):** 6

**Cylinders Made By:** PETER PHELAN

**Aggregate Size (in):** 3/4

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** HRWR / AIR ENTRAINMENT

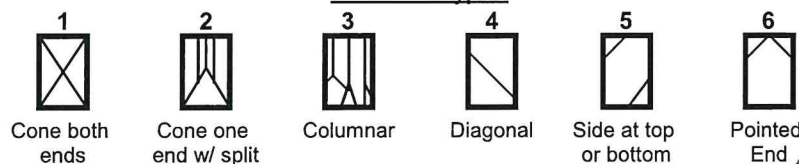
### TEST RESULTS

**Slump (in) (C-143):** 7 1/2  
**Air Content (%) (C-231)** 7.7  
**Air Temp (°F):** 44  
**Conc. Temp (°F) (C-1064):** 63

**Load Number:** 1    **Batch**  
**Mixer Number** 317    10:31  
**Ticket Number** 7709    **Arrive**  
**Cubic Yards:** 6    **Depart**  
**Design (psi):** 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)
982-2A	7.80	4.01	12.61	12/6/2017	Lab	7	5	27.8	2210
982-2B	7.80	4.02	12.67	12/27/2017	Lab	28	4	36.4	2870
982-2C	7.80	4.00	12.54	12/27/2017	Lab	28	4	35.4	2820
982-2D	7.80	4.01	12.62	1/24/2018	Lab	56	4	61.4	4870

#### Fracture Types



Remarks:



**Project Name:** Portland ME - Reitter Residence - Construction Materials Testing Services

**Project Number:** 17-1399

**Client:** M. R. Brewer Construction, LLC

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** HISSONG CONCRETE

### PLACEMENT INFORMATION

**Date Cast:** 11/29/2017    **Time Cast:** 11:45    **Date Received:** 11/30/2017

**Placement Location:** RETAINING WALL

**Placement Method:** DIRECT DISCHARGE

**Placement Vol. (yd<sup>3</sup>):** 6

**Cylinders Made By:** PETER PHELAN

**Aggregate Size (in):** 3/4

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** HRWR / AIR ENTRAINMENT

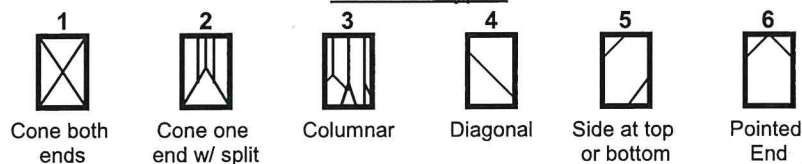
### TEST RESULTS

**Slump (in) (C-143):** 7 1/2  
**Air Content (%) (C-231)** 7.7  
**Air Temp (°F):** 44  
**Conc. Temp (°F) (C-1064):** 63

**Load Number:** 1    **Batch** 10:31  
**Mixer Number** 317  
**Ticket Number** 7709    **Arrive**  
**Cubic Yards:** 6    **Depart**  
**Design (psi):** 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)
982-2A	7.80	4.01	12.61	12/6/2017	Lab	7	5	27.8	<b>2210</b>
982-2B	7.80			12/27/2017	Lab	<b>28</b>			
982-2C	7.80			12/27/2017	Lab	<b>28</b>			
982-2D	7.80			Hold	Lab				

#### Fracture Types



Remarks:

## Report of Concrete Compressive Strength

ASTM C-31 &amp; C-39

**Project Name:** Portland ME - Reitter Residence - Construction Materials Testing Services

**Project Number:** 17-1399

**Client:** M. R. Brewer Construction, LLC

**Client Contract Number:**
**General Contractor:**
**Concrete Supplier:** HISSONG CONCRETE

### PLACEMENT INFORMATION

**Date Cast:** 12/7/2017      **Time Cast:** 4:25

**Date Received:** 12/8/2017

**Placement Location:** BUILDING FOUNDATION WALLS

**Placement Method:** DIRECT DISCHARGE

**Placement Vol. (yd<sup>3</sup>):** 11

**Cylinders Made By:** AIDAN BOYCE

**Aggregate Size (in):** 3/4

### INITIAL CURING CONDITIONS

#### Temperatures

**Minimum (°F)** 41      **Maximum (°F)** 64

### DELIVERY INFORMATION

**Admixtures:** HRWR / MICRO AIR

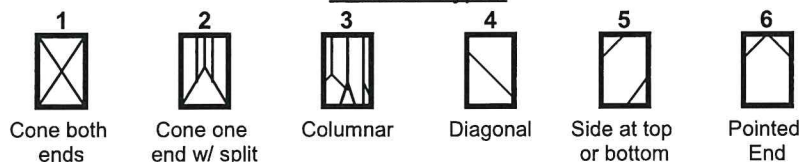
### TEST RESULTS

**Slump (in) (C-143):** 3  
**Air Content (%) (C-231)** 7.2  
**Air Temp (°F):** 40  
**Conc. Temp (°F) (C-1064):** 59

**Load Number:** 1      **Batch** 3:17  
**Mixer Number** 303  
**Ticket Number** 7796      **Arrive** 4:00  
**Cubic Yards:** 11      **Depart**  
**Design (psi):** 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)
982-3A	8.15	4.01	12.62	12/14/2017	Lab	7	4	42.2	3350
982-3B	8.15			1/4/2018	Lab	28			
982-3C	8.15			1/4/2018	Lab	28			
982-3D	8.15			Hold	Lab				

#### Fracture Types



Remarks:

**Project Name:** Portland ME - Reitter Residence - Construction Materials Testing Services

**Project Number:** 17-1399

**Client:** M. R. Brewer Construction, LLC

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** HISSONG CONCRETE

### PLACEMENT INFORMATION

**Date Cast:** 12/7/2017      **Time Cast:** 4:25

**Date Received:** 12/8/2017

**Placement Location:** BUILDING FOUNDATION WALLS

**Placement Method:** DIRECT DISCHARGE

**Placement Vol. (yd<sup>3</sup>):** 11

**Cylinders Made By:** AIDAN BOYCE

**Aggregate Size (in):** 3/4

### INITIAL CURING CONDITIONS

#### Temperatures

**Minimum (°F)** 41      **Maximum (°F)** 64

### DELIVERY INFORMATION

**Admixtures:** HRWR / MICRO AIR

### TEST RESULTS

**Slump (in) (C-143):** 3

**Load Number:** 1      **Batch** 3:17

**Air Content (%) (C-231)** 7.2

**Mixer Number** 303

**Air Temp (°F):** 40

**Ticket Number** 7796

**Arrive** 4:00

**Conc. Temp (°F) (C-1064):** 59

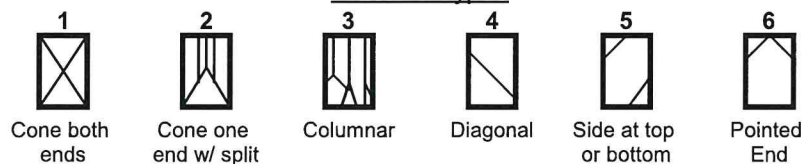
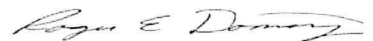
**Cubic Yards:** 11

**Depart**

**Design (psi):** 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)
982-3A	8.15	4.01	12.62	12/14/2017	Lab	7	4	42.2	3350
982-3B	8.15	3.96	12.29	1/4/2018	Lab	28	5	52.6	4280
982-3C	8.15	4.01	12.61	1/4/2018	Lab	28	4	52.6	4170
982-3D	8.15			Hold	Lab				

#### Fracture Types

Remarks:

## Report of Concrete Compressive Strength

ASTM C-31 &amp; C-39

**Project Name:** Portland ME - Reitter Residence - Construction Materials Testing Services

**Project Number:** 17-1399

**Client:** M. R. Brewer Construction, LLC

**Client Contract Number:**
**General Contractor:**
**Concrete Supplier:** HISSONG CONCRETE

### PLACEMENT INFORMATION

**Date Cast:** 6/26/2018      **Time Cast:** 12:12      **Date Received:** 6/27/2018

**Placement Location:** 1ST FLOOR GARAGE SLAB, NE CORNER OF BUILDING

**Placement Method:** DIRECT DISCHARGE

**Placement Vol. (yd³):** 11

**Cylinders Made By:** CALEB BOOTH

**Aggregate Size (in):** 3/4

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** HRWR

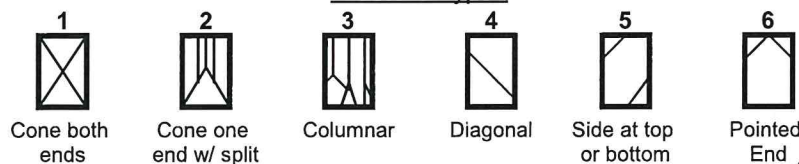
### TEST RESULTS

**Slump (in) (C-143):** 4 1/4  
**Air Content (%) (C-231)** 2  
**Air Temp (°F):** 71  
**Conc. Temp (°F) (C-1064):** 80

**Load Number:** 1      **Batch** 9:47  
**Mixer Number** 330  
**Ticket Number** 9279      **Arrive** 10:35  
**Cubic Yards:** 11      **Depart** 12:15  
**Design (psi):** 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)
982-4A	8.25	3.99	12.48	7/3/2018	Lab	7	4	25.4	2040
982-4B	8.25			7/24/2018	Lab	28			
982-4C	8.25			7/24/2018	Lab	28			
982-4D	8.25			Hold	Lab				

#### Fracture Types



Remarks:

## Report of Concrete Compressive Strength

ASTM C-31 &amp; C-39

**Project Name:** Portland ME - Reitter Residence - Construction Materials Testing Services

**Project Number:** 17-1399

**Client:** M. R. Brewer Construction, LLC

**Client Contract Number:**
**General Contractor:**
**Concrete Supplier:** HISSONG CONCRETE

### PLACEMENT INFORMATION

**Date Cast:** 6/26/2018      **Time Cast:** 12:12      **Date Received:** 6/27/2018

**Placement Location:** 1ST FLOOR GARAGE SLAB, NE CORNER OF BUILDING

**Placement Method:** DIRECT DISCHARGE

**Placement Vol. (yd³):** 11

**Cylinders Made By:** CALEB BOOTH

**Aggregate Size (in):** 3/4

### INITIAL CURING CONDITIONS

#### Temperatures

Minimum (°F)	NT	Maximum (°F)	NT
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### DELIVERY INFORMATION

**Admixtures:** HRWR

### TEST RESULTS

**Slump (in) (C-143):** 4 1/4

**Load Number:** 1      **Batch:**
**Air Content (%) (C-231):** 2

**Mixer Number:** 330      **9:47**
**Air Temp (°F):** 71

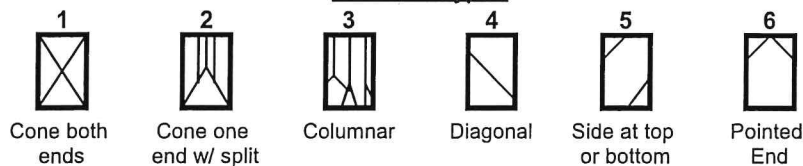
**Ticket Number:** 9279      **Arrive:** 10:35

**Conc. Temp (°F) (C-1064):** 80

**Cubic Yards:** 11      **Depart:** 12:15  
**Design (psi):** 3000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area (In)²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
982-4A	8.25	3.99	12.48	7/3/2018	Lab	7	4	25.4	2040
982-4B	8.25	4.00	12.54	7/24/2018	Lab	28	4	36.8	2930
982-4C	8.25	4.00	12.58	7/24/2018	Lab	28	4	35.2	2800
982-4D	8.25			8/21/2018	Lab	56			

#### Fracture Types



Remarks:



Reviewed By

**Client:** S.W. Cole Engineering, Inc.  
**Project:** 35 Pleasant St/6 South St  
**Date:** April 25, 2018  
**Project #:** 17-1399  
**Subject:** Site Inspection of Structural Steel

**Report:** 001

We visited the site on this date as requested to perform structural steel inspections on the 35 Pleasant St./6 South St. project located in Portland, ME. Upon arrival we met with the project superintendent for MR Brewer.

Becker Structural Engineers drawings were used to perform our inspections. Inspected at this time was New Level 2A Framing. Our actions and observations were as follows:

- Framing was inspected for overall conformance to drawings and details.
- Bolted connections were inspected. Nuts were completely engaged on TC bolts and splines were snapped off indicating proper tightening.
- X rod bracing appeared to be properly tightened.
- Web stiffener plates shown in detail 4/S5 were shop installed and shop welded.
- Top plate for bolted moment connection at C/1 was shop attached and shop welded.

All inspections performed above appeared acceptable in accordance to AWS, AISC, RCSC and contract documents.

The project superintendent was notified of our findings.

**Inspector;** Michael Bump  
CWI #07091231



**Client:** S.W. Cole Engineering, Inc.  
**Project:** 35 Pleasant St/6 South St  
**Date:** April 25, 2018  
**Project #:** 17-1399  
**Subject:** Site Inspection of Structural Steel

**Report:** 001

We visited the site on this date as requested to perform structural steel inspections on the 35 Pleasant St./6 South St. project located in Portland, ME. Upon arrival we met with the project superintendent for MR Brewer.

Becker Structural Engineers drawings were used to perform our inspections. Inspected at this time was New Level 2A Framing. Our actions and observations were as follows:

- Framing was inspected for overall conformance to drawings and details.
- Bolted connections were inspected. Nuts were completely engaged on TC bolts and splines were snapped off indicating proper tightening.
- X rod bracing appeared to be properly tightened.
- Web stiffener plates shown in detail 4/S5 were shop installed and shop welded.
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All inspections performed above appeared acceptable in accordance to AWS, AISC, RCSC and contract documents.

The project superintendent was notified of our findings.

**Inspector;** Michael Bump  
CWI #07091231