



Concrete Construction Observation Report

Project Name/Location:	421 Warren Avenue – Holmes Building	Project No:	13-1392.1
Client/Client's Rep.:	Biskup Construction, Inc. / Jim Biskup	Date:	9-15-15
Concrete Contractor:	CCI	Sheet:	1 of 1
Placement Location:	Footings from G/5 to A/3	S.W.COLE Rep.:	K. Gimpel
Weather:	Sunny, 80's	On Site:	1:45 – 4:45

<i>Pre Placement Observations</i>	In Compliance		N/O	Comments
Bar size and location (diameter, length, bend and coverage)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	See notes
Splicing (type, overlap)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	See notes
Stability (wiring, chairs, and spacers)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Concrete bricks
Reinforcement conditions (cleanliness, temperature etc.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Clean, ambient
Embedments and anchor bolts installed	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	N/A
Soil subgrade prepared in accordance with project specifications	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Crushed stone

Referenced Drawings	Date	Page(s)	Rev.	ASTM	GRADE
Associated Design Partners Inc. – Foundation Plan	8-5-15	S-1		A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
Associated Design Partners Inc. – Foundation Details	8-5-15	S-2		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"/>

<i>Concrete Placement Observations</i>	In Compliance		N/O	Comments
Required mix used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	3000, ¾ w/ midrange & air
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Tailgate, tremie
Internal vibration / consolidation of concrete	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Manually consolidated
Even layering around openings and embedments	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	N/A
Post placement observations (finishing, curing, etc.)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	N/A

Field Testing of Concrete Performed	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Loads:	4	Yards:	35
*Cylinder Set Number:	711-2		←*refer to associated concrete test report			

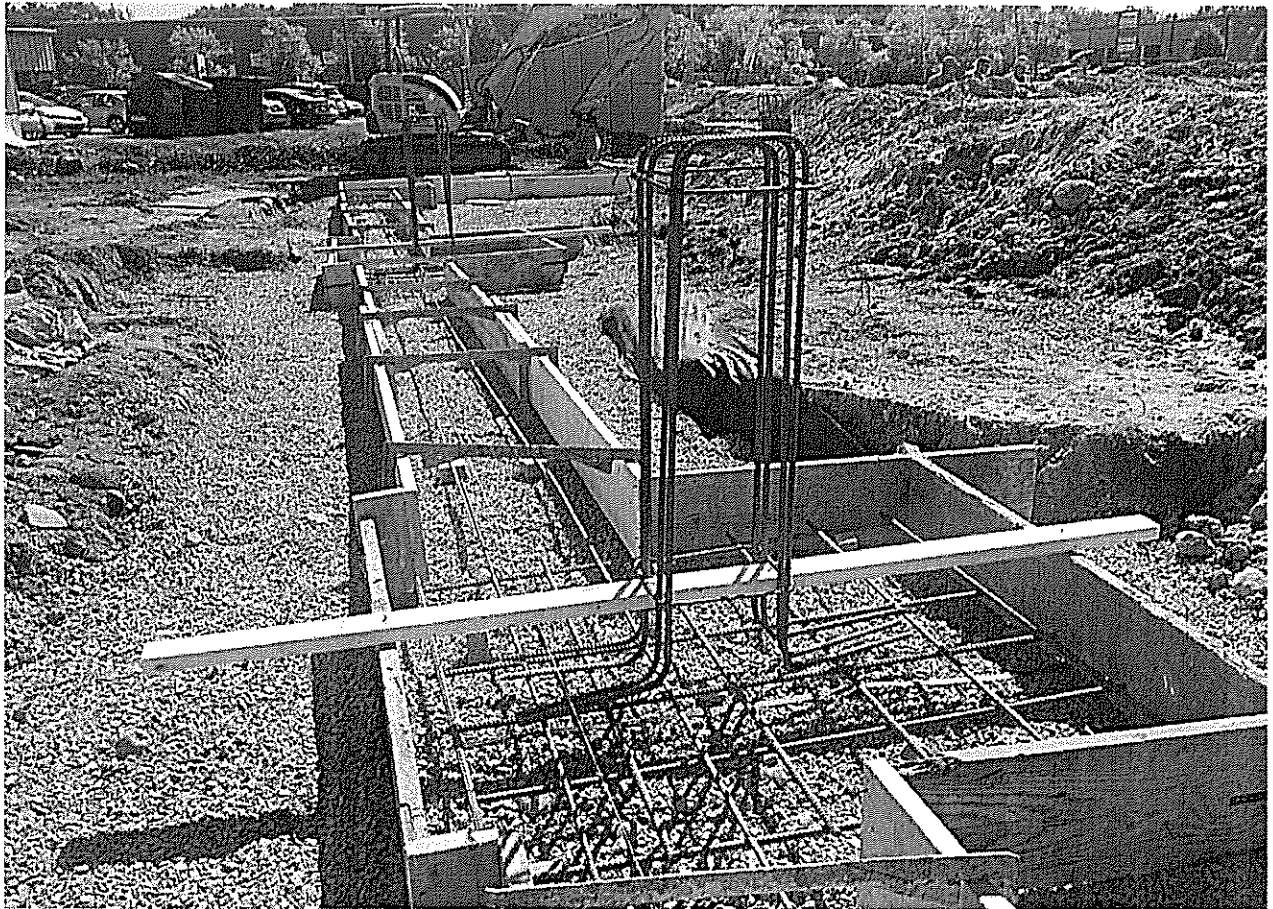
Non-Conformance Items Observed (person notified)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
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Notes: We made a site visit as scheduled by Biskup Construction (Sid) to make observations of reinforcing and perform concrete field testing in accordance with the schedule of special inspections. General installation of reinforcing including form geometry, bar type, bar count and positioning observed generally appeared consistent with the above referenced project documents. Footing at G/5 was initially noted as being 4-inches too shallow, however, issue was promptly addressed prior to placing concrete. The "U" bars at A/2, A/3 and J/5 were cut at the high point reportedly because they were fabricated too large to fit in the stirrups. Hooked wall verticals as fabricated have a long leg of 18-inches resulting in a maximum of 9-inch embedment/splice. We recommended to Sid that acceptability of as-built conditions observed be confirmed with the EO.R. Wall verticals are being wet stuck immediately following placement of conc. etc. Field test results were reported to Biskup Concrete and Hissong Concrete.

Attachments: Photos

Reviewed By: RED

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.



9/15/15



Construction Observation Report

Project Name/Location: Peter Homes Project, Portland ME **Project No:** 13-1392.1
Client: CCI **Date:** 9/17/2015
Client's Rep.: Jim Biskup **Sheet:** 1 of 1
Contractor: Biskup Construction **SWCE Rep.:** Joshua Moore

Weather			Site Conditions		Arrived at Site: 12:45 pm
<input type="checkbox"/> Clear	<input type="checkbox"/> Snow	<input checked="" type="checkbox"/> Warm	<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Dusty	Left Site: 3:45 pm
<input checked="" type="checkbox"/> Overcast	<input type="checkbox"/> Fog	<input type="checkbox"/> Hot	<input type="checkbox"/> Muddy	<input type="checkbox"/> _____	Travel Time: _____
<input type="checkbox"/> Rain	<input type="checkbox"/> Cold	<input type="checkbox"/> Windy	<input type="checkbox"/> Frozen	Temperatures: 70's	

Work performed by SWCE			
<input type="checkbox"/> Soil	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Site Meeting	<input type="checkbox"/> Field Testing
		<input type="checkbox"/> Masonry	<input type="checkbox"/> Asphalt
			<input type="checkbox"/> Observations
			<input type="checkbox"/> Nuclear Densometer

Construction Activities Observed:

S.W. Cole Engineering representative Joshua Moore was onsite to preform concrete testing for air content, slump, temperature, and to cast laboratory compressive strength cylinders.

A crew from CCI Concrete placed a total of 40 cubic yards of concrete for the Foundation wall, plan line G, 7.5 to 13. All of plan line 13, and plan line A, 9 to 13. The ¾ inch aggregate, 3,000 psi concrete was supplied by Hissong Ready Mix Concrete and was placed via truck chute. The supplied concrete contained mid range water reducer (MRWR) added during the batching process. A total of 4 cylinders were cast for laboratory compressive strength testing.

Mid load test results:

Slump: 6"- 6.5"
 % Air: 4.5%- 5.5%
 Concrete temperature: 71 deg. F- 75 deg. F

Discussions, Recommendations:

All results were reported to Jim Biskup of Biskup Construction.

Items Observed Not in Conformance to Project Specifications:

Attachments: _____ **Reviewed By:** Joshua Moore



Concrete Construction Observation Report

Project Name/Location:	421 Warren Avenue – Holmes Building	Project No:	13-1392.1
Client/Client's Rep.:	Biskup Construction, Inc. / Jim Biskup	Date:	9-22-15
Concrete Contractor:	CCI	Sheet:	1 of 1
Placement Location:	Walls: G/8 to G/13, A/9 to A/13, G/13 to A/13	S.W.COLE Rep.:	C. Cromwell
Weather:	Sunny, 60's	On Site:	11:00-12:00

Pre Placement Observations	In Compliance		N/O	Comments
Bar size and location (diameter, length, bend and coverage)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Per Plan
Splicing (type, overlap)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Per Plan
Stability (wiring, chairs, and spacers)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	
Reinforcement conditions (cleanliness, temperature etc.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Clean, ambient
Embedments and anchor bolts installed	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Per Plan
Soil subgrade prepared in accordance with project specifications	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Crushed stone

Referenced Drawings	Date	Page(s)	Rev.	ASTM	GRADE
Associated Design Partners Inc. – Foundation Plan	8-5-15	S-1		A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
Associated Design Partners Inc. – Foundation Details	8-5-15	S-2		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"/>

Concrete Placement Observations	In Compliance		N/O	Comments
Required mix used	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	Only observed Reinforcing
Concrete properly conveyed to all areas of placement	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	
Internal vibration / consolidation of concrete	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	
Even layering around openings and embedments	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	
Post placement observations (finishing, curing, etc.)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	

Field Testing of Concrete Performed Yes No Loads: Yards:

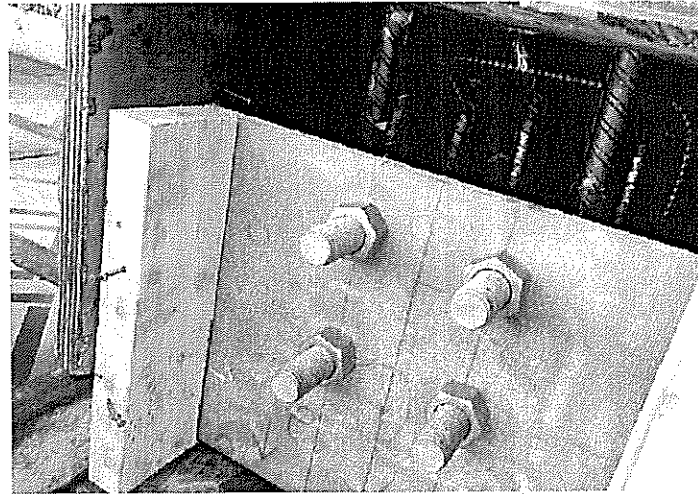
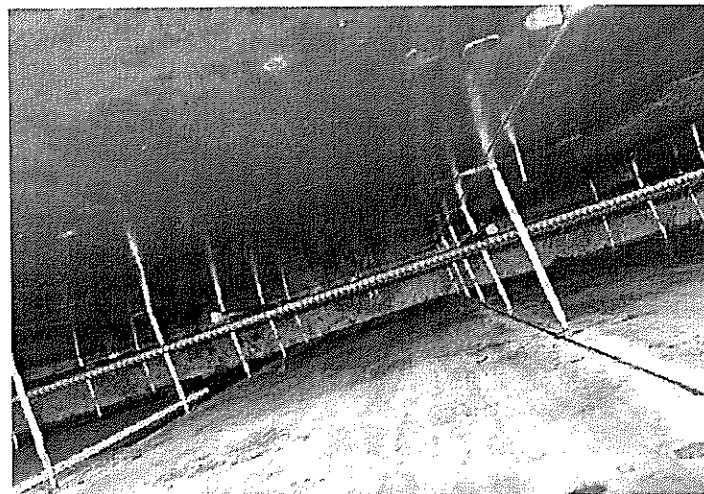
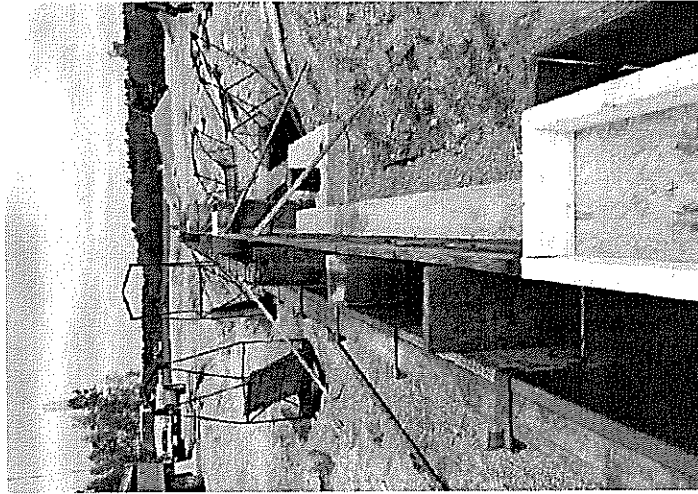
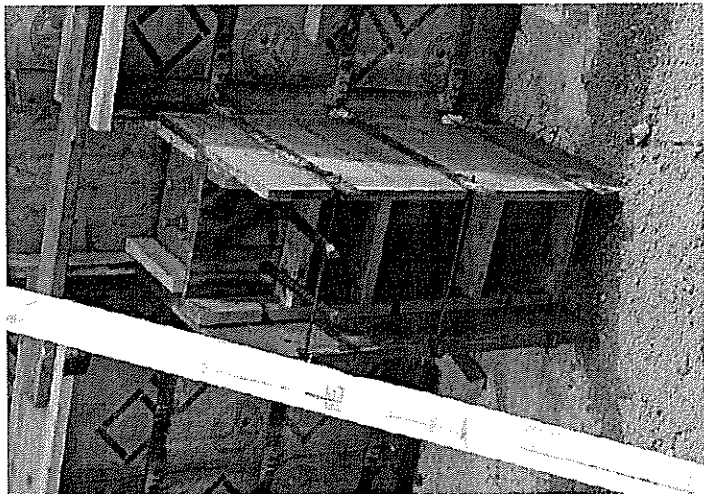
***Cylinder Set Number:** ←*refer to associated concrete test report

Non-Conformance Items Observed (person notified) Yes No

Notes:
 S.W.COLE was onsite to look at reinforcement prior to placement later on in afternoon. Reinforcement observed generally appeared consistent with the above referenced project documents. Walls consisted of #4 bar at 12" O.C. horizontal and #4 bar at 16" O.C. verticals. Reinforcing for piers consisted of #5 U-bars ranging from 3 to 6 depending on location with #3 hoops at 10" O.C. with #9 bar hairpin for slab.

Attachments: Photos Reviewed By: RED
P:\2013\13-1392.1 M - Biskup Construction, Inc. - Portland, ME - 421 Warren Ave Holmes Building -RED\Daily Field Reports - CORs\9-22-15.doc

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9/22/15



Concrete Construction Observation Report

Project Name/Location:	421 Warren Avenue – Holmes Building	Project No:	13-1392.1
Client/Client's Rep.:	Biskup Construction, Inc. / Jim Biskup	Date:	9-28-15
Concrete Contractor:	CCI	Sheet:	1 of 1
Placement Location:	Walls: G/7(+8) to G/5 to J/5 to J(+6)/1	S.W.COLE Rep.:	K. Gimpel
Weather:	Sunny, 50 - 75	On Site:	11:30 – 2:45

<i>Pre Placement Observations</i>	In Compliance		N/O	Comments
Bar size and location (diameter, length, bend and coverage)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Per referenced plans
Splicing (type, overlap)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	See notes
Stability (wiring, chairs, and spacers)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Positioners as needed
Reinforcement conditions (cleanliness, temperature etc.)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Ambient, form oil on bar
Embedments and anchor bolts installed	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"/>	N/A

Referenced Drawings	Date	Page(s)	Rev.	ASTM	GRADE
Associated Design Partners Inc. – Foundation Plan	8-11-15	S-1	1	A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
Associated Design Partners Inc. – Foundation Details	8-5-15	S-2		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"/>

<i>Concrete Placement Observations</i>	In Compliance		N/O	Comments
Required mix used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	3000, ¾ w/ midrange & air
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Tailgate
Internal vibration / consolidation of concrete	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Mechanically consolidated
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	
Post placement observations (finishing, curing, etc.)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	N/A

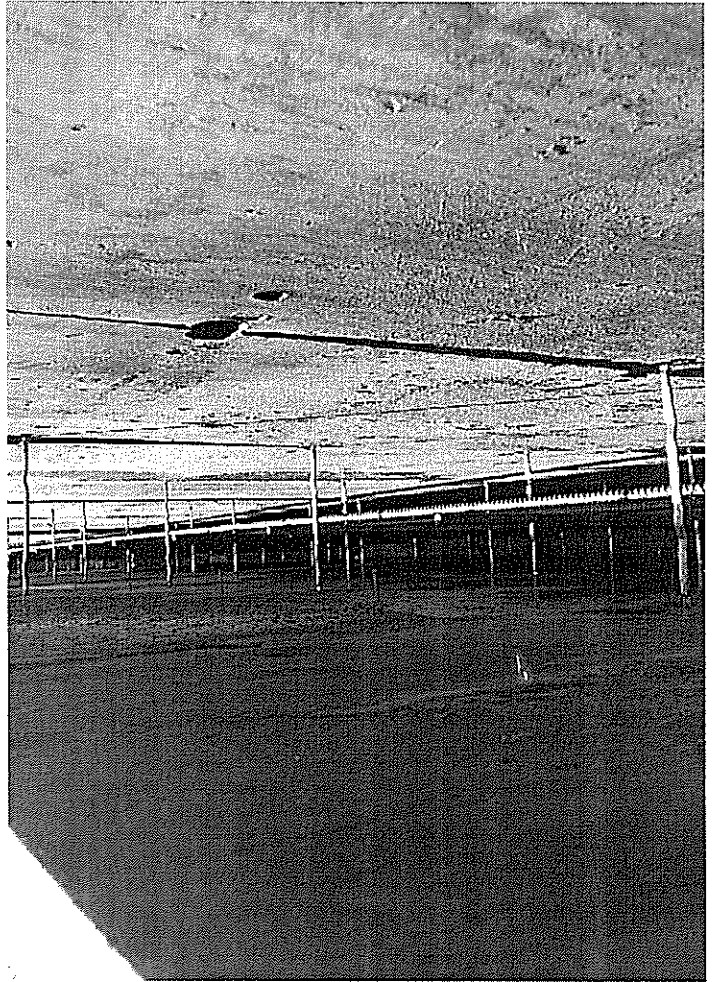
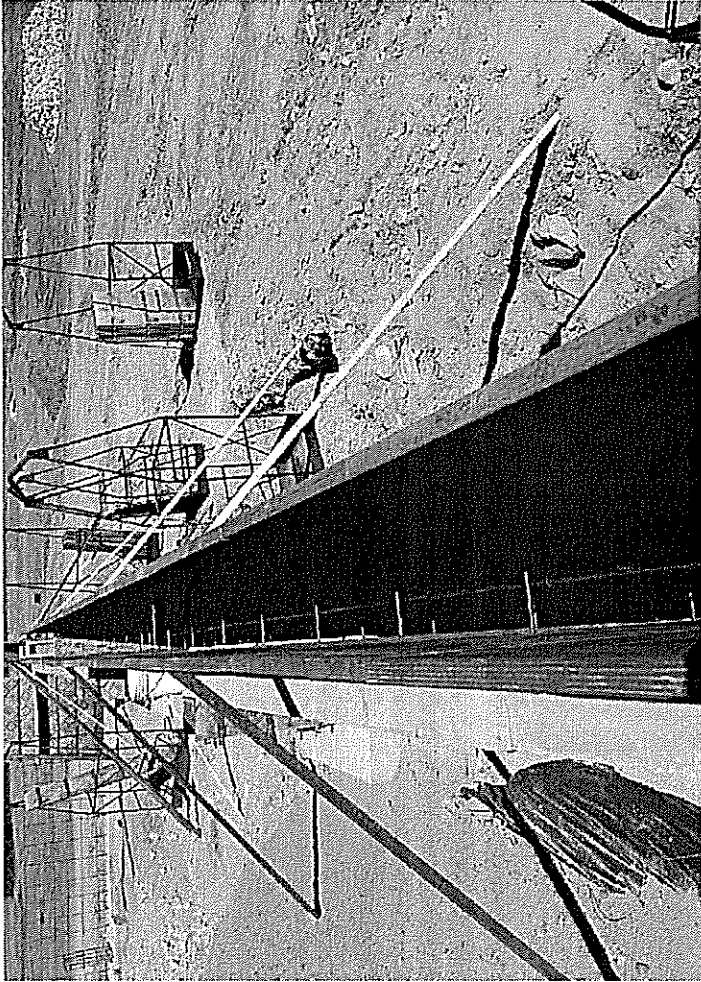
Field Testing of Concrete Performed	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Loads:	4	Yards:	33.5
*Cylinder Set Number: 711-5	←*refer to associated concrete test report					

Non-Conformance Items Observed (person notified) Yes No

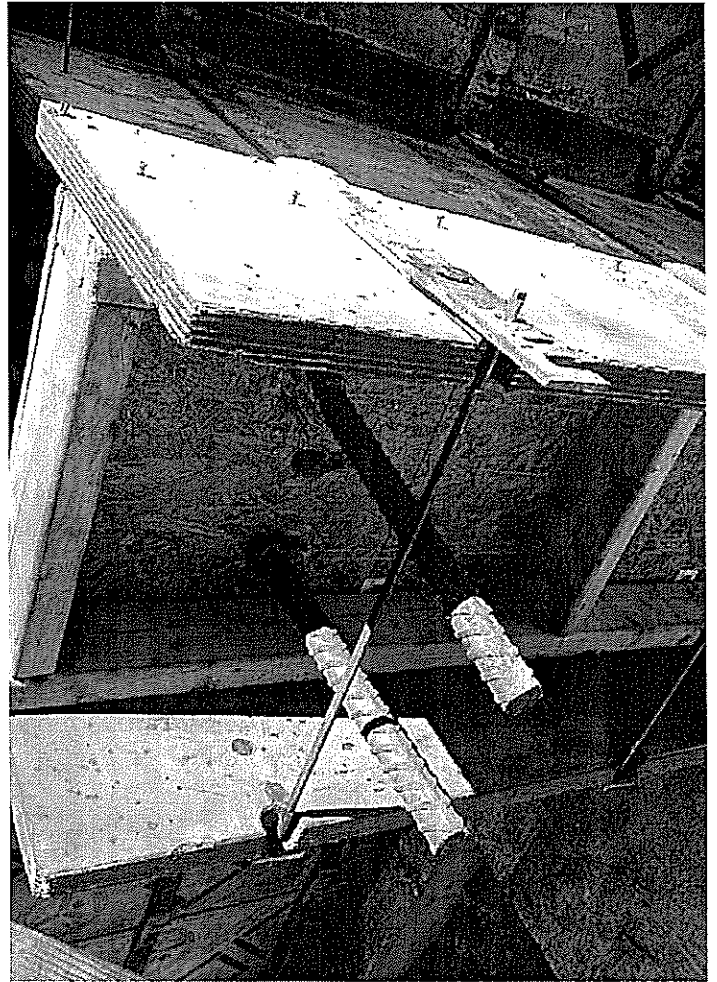
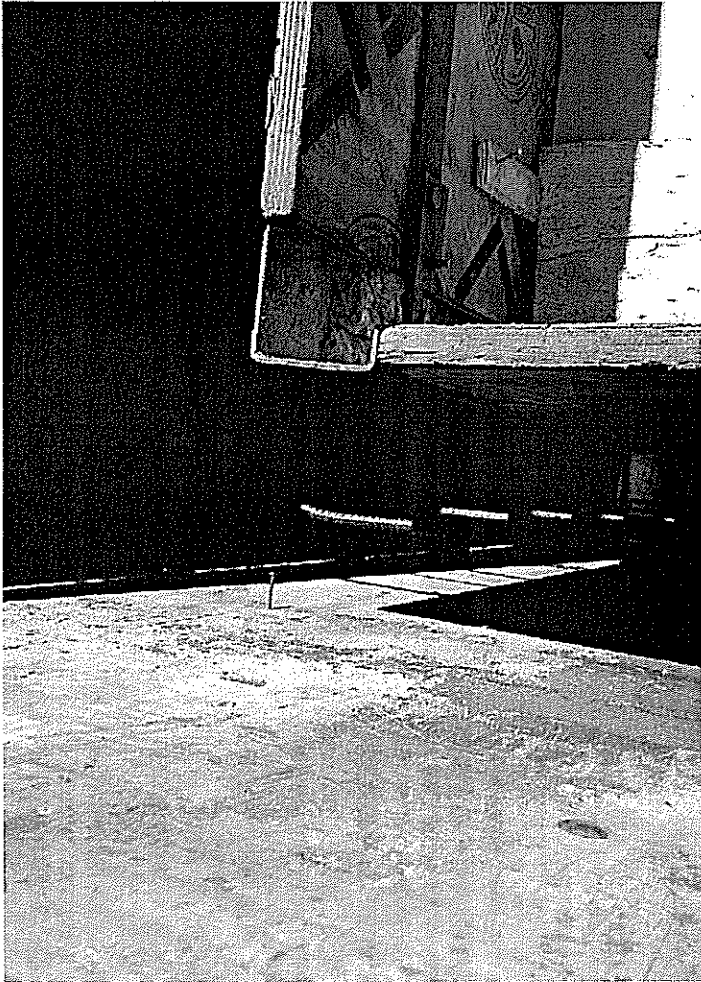
Notes: S.W.COLE made a site visit as scheduled by Biskup Construction (Sid) to make observations of reinforcing and perform concrete field testing in accordance with the schedule of special inspections. Reinforcing installation observed appeared consistent with the details contained in the above referenced project documents. Additional "U" bars were added at pier locations where supplied bars (commented on during footing placements) did not work. Splices for wall horizontals were 22-inches or greater, verticals were 9 to 12-inches. Chamfer strips were installed for controls joints at regular intervals and #9 hooks were installed in piers as were #5's where required; mechanical couplings will be used to extend these stub bars prior to placing slab. Forms were oiled in place resulting in form oil on reinforcing but they were otherwise clean. The entrained air content on the first two loads of concrete delivered was found to be on the lower side of the specified range; Hissong was informed and adjustments were made at the plant as needed.

Attachments: Photos Reviewed By: RED
P:\2013\13-1392.1 M - Biskup Construction, Inc. - Portland, ME - 421 Warren Ave Holmes Building -RED\Daily Field Reports - CORs\9-28-15.doc

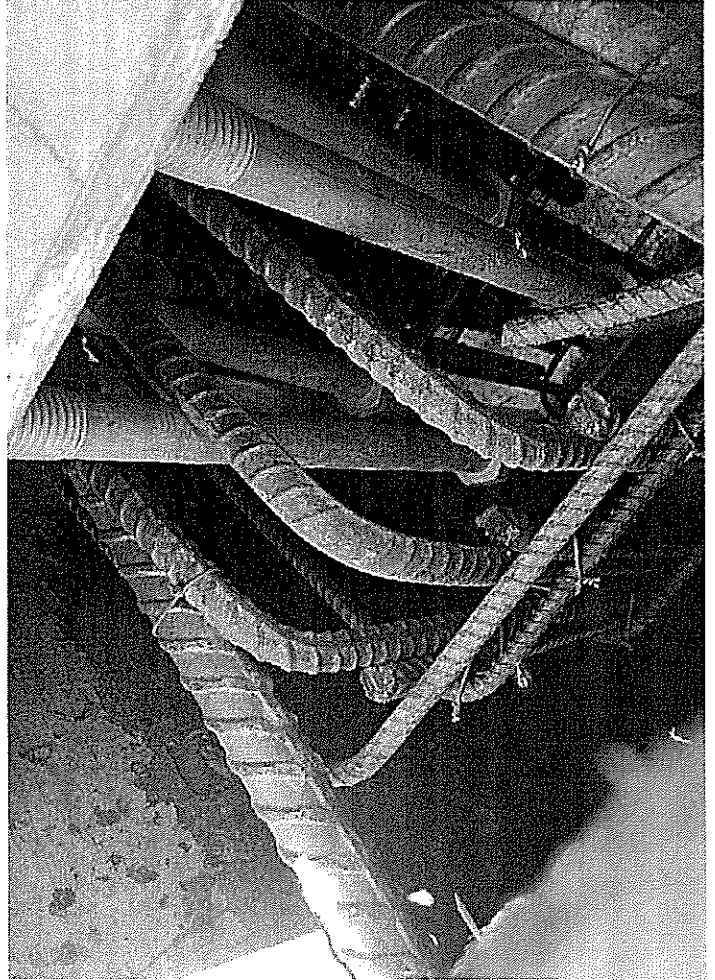
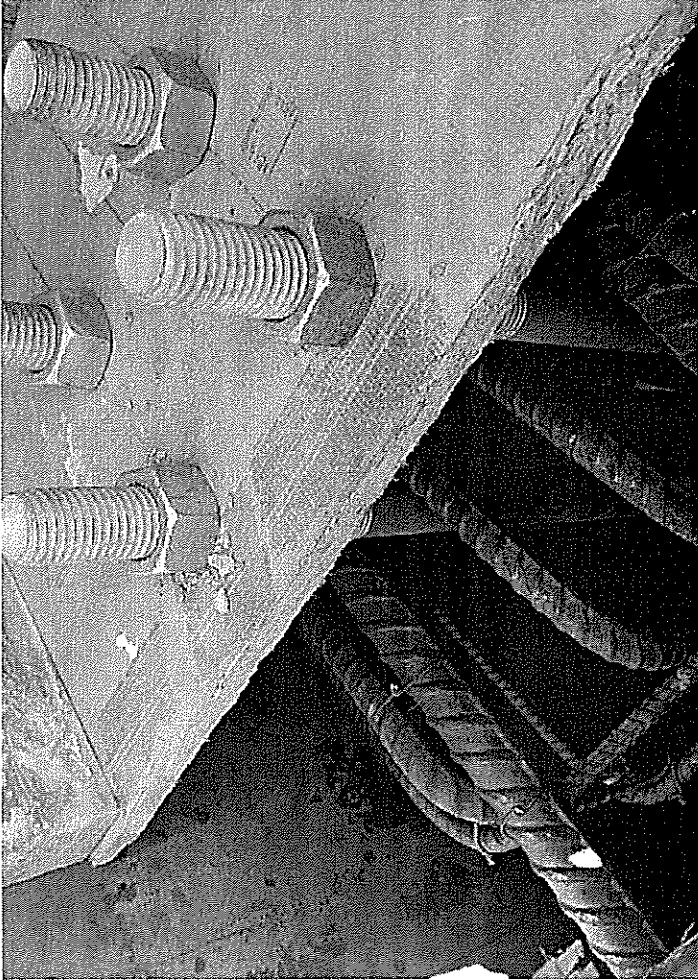
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9/20/15



9/28/15



9/28/15



Concrete Construction Observation Report

Project Name/Location:	421 Warren Avenue – Holmes Building	Project No:	13-1392.1
Client/Client's Rep.:	Biskup Construction, Inc. / Jim Biskup	Date:	10-2-15
Concrete Contractor:	CCI	Sheet:	1 of 1
Placement Location:	Walls: J/1 to A/1 to A/6 + 18'. Footing: A/8 to A/10.	S.W.COLE Rep.:	RED/ JDM
Weather:	Sunny, 50 - 70	On Site:	11:30 – 12:00 12:45 – 2:10

<i>Pre Placement Observations</i>	In Compliance		N/O	Comments
Bar size and location (diameter, length, bend and coverage)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Per referenced plans
Splicing (type, overlap)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	See notes
Stability (wiring, chairs, and spacers)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Positioners as needed
Reinforcement conditions (cleanliness, temperature etc.)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Ambient, form oil on bar
Embedments and anchor bolts installed	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"/>	N/A

Referenced Drawings	Date	Page(s)	Rev.	ASTM	GRADE
Associated Design Partners Inc. – Foundation Plan	8-11-15	S-1	1	A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
Associated Design Partners Inc. – Foundation Details	8-5-15	S-2		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"/>

<i>Concrete Placement Observations</i>	In Compliance		N/O	Comments
Required mix used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	3000, ¾ w/ midrange & air
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Tailgate
Internal vibration / consolidation of concrete	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Mechanically consolidated
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	
Post placement observations (finishing, curing, etc.)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	N/A

Field Testing of Concrete Performed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Loads:	4	Yards:	40
*Cylinder Set Number:	711-6	←*refer to associated concrete test report			

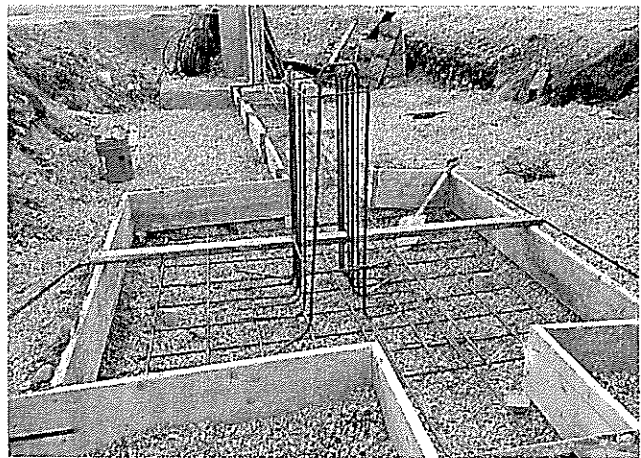
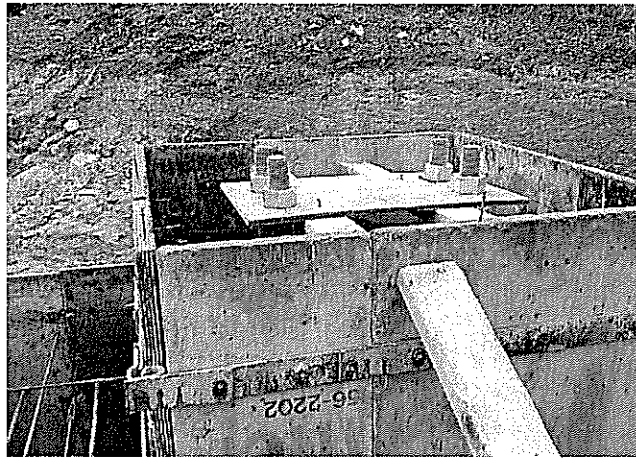
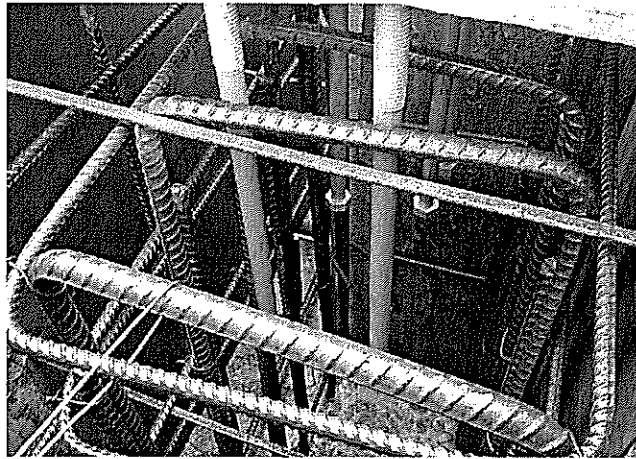
Non-Conformance Items Observed (person notified)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Notes: S.W.COLE made a site visit as scheduled by Biskup Construction (Sid) to make observations of reinforcing and perform concrete field testing in accordance with the schedule of special inspections. Reinforcing installation observed appeared consistent with the details contained in the above referenced project documents. Additional "U" bars were added at pier locations where supplied bars did not work. Splices for wall horizontals were 22-inches or greater, verticals were 9 to 12-inches. Chamfer strips were installed for controls joints at regular intervals and #9 hooks were installed in piers as were #5's where required. Forms were oiled in place resulting in form oil on reinforcing but they were otherwise clean. The concrete field tests were within specification..

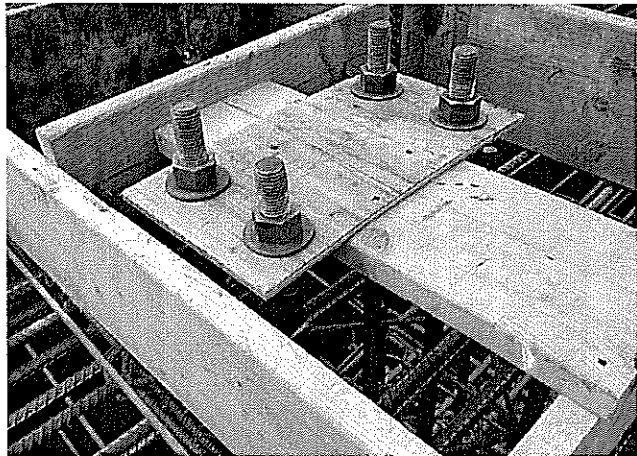
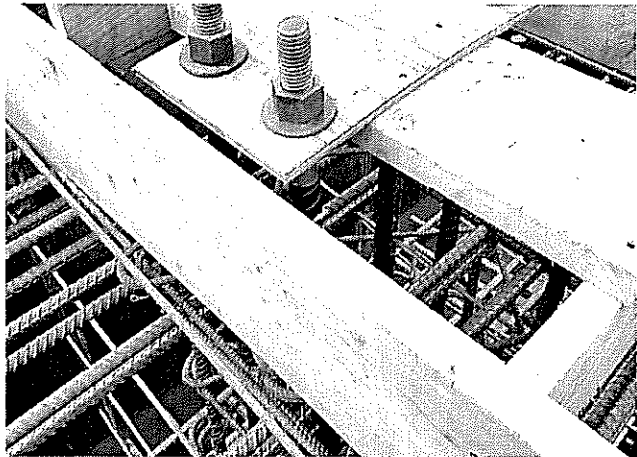
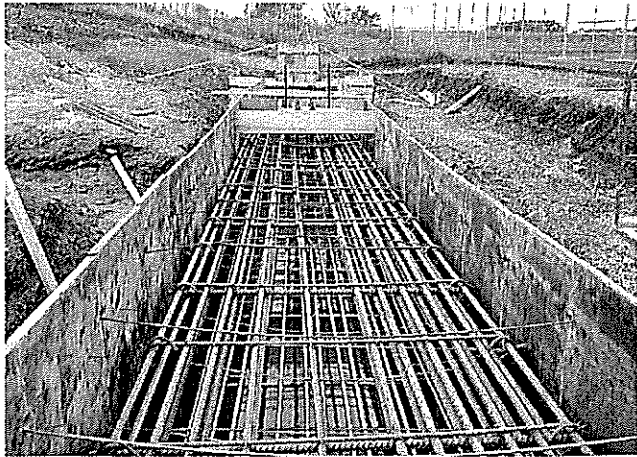
Attachments: Photos

Reviewed By: KBG

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5/2/15



10/22/15



Concrete Construction Observation Report

Project Name/Location:	421 Warren Avenue – Holmes Building	Project No:	13-1392.1
Client/Client's Rep.:	Biskup Construction, Inc. / Jim Biskup	Date:	10-5-15
Concrete Contractor:	CCI	Sheet:	1 of 1
Placement Location:	Walls: G/7(+8) to G/5 to J/5 to J(+6)/1	S.W.COLE Rep.:	Frank Clark
Weather:	Sunny, 50 - 75	On Site:	1:00 – 3:00

<i>Pre Placement Observations</i>	In Compliance		N/O	Comments
Bar size and location (diameter, length, bend and coverage)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Per referenced plans
Splicing (type, overlap)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	See notes
Stability (wiring, chairs, and spacers)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Positioners as needed
Reinforcement conditions (cleanliness, temperature etc.)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	
Embedments and anchor bolts installed	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"/>	N/A

Referenced Drawings	Date	Page(s)	Rev.	ASTM	GRADE
Associated Design Partners Inc. – Foundation Plan	8-11-15	S-1	1	A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
Associated Design Partners Inc. – Foundation Details	8-5-15	S-2		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"/>

<i>Concrete Placement Observations</i>	In Compliance		N/O	Comments
Required mix used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	3000, ¾ w/ midrange & air
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Tailgate
Internal vibration / consolidation of concrete	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Mechanically consolidated
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	
Post placement observations (finishing, curing, etc.)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	N/A

Field Testing of Concrete Performed Yes No Loads: 2 Yards: 19

*Cylinder Set Number: 711-7 ←*refer to associated concrete test report

Non-Conformance Items Observed (person notified) Yes No

Notes: S.W.COLE made a site visit as scheduled by Biskup Construction (Sid) to make observations of reinforcing steel and perform concrete field testing in accordance with the schedule of special inspections. Reinforcing installation observed appeared consistent with the details contained in the above referenced project documents. Splices for wall horizontals were 22-inches or greater, verticals were 9 to 12-inches. Chamfer strips were installed for controls joints at regular intervals and #9 hooks were installed in piers. Concrete tests were within specification.

Attachments: None

Reviewed By: RED

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Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - 421 Warren Avenue - Holmes Building -
Special Inspections & Materials Testing

Project Number: 13-1392.1

Client: Biskup Construction, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: HISSONG CONCRETE

PLACEMENT INFORMATION

Date Cast: 9/14/2015 **Time Cast:** 3:57 **Date Received:** 9/15/2015
Placement Location: FOOTING: LINE A/12 TO A/13
FOOTING: LINE 13/G TO 13/A LINE G/13 TO G/6
Placement Method: TAILGATE **Placement Vol. (yd³):** 30
Cylinders Made By: VAN TERRELL, JR. **Aggregate Size (in):** 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

TEST RESULTS

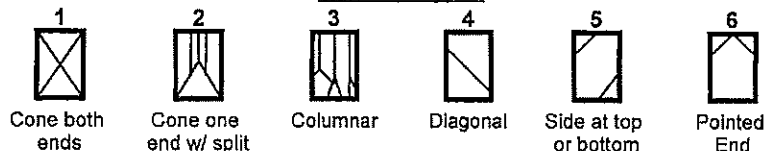
Slump (in) (C-143):	Slump WR: 6	Load Number: 1	Batch
Air Content (%) (C-231)	Air WR: 5.9	Mixer Number: 317	3:15
Air Temp (°F): 75		Ticket Number: 458	Arrive
Conc. Temp (°F) (C-1064): 77		Cubic Yards: 10	3:28
		Design (psi): 3000	Depart
			3:57

DELIVERY INFORMATION

Admixtures: MRWR

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)
711-1A	8.15	4.01	12.62	9/21/2015	Lab	7	4	31.2	2470
711-1B	8.15	4.00	12.58	10/12/2015	Lab	28	4	41.0	3260
711-1C	8.15	4.00	12.58	10/12/2015	Lab	28	4	38.8	3080
711-1D	8.15			Hold	Lab				

Fracture Types



Remarks:



Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - 421 Warren Avenue - Holmes Building -
Special Inspections & Materials Testing

Project Number: 13-1392.1

Client: Biskup Construction, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: HISSONG CONCRETE

PLACEMENT INFORMATION

Date Cast: 9/15/2015 **Time Cast:** 3:55

Date Received: 9/17/2015

Placement Location: FOOTING G/S TO A/3

Placement Method: TAILGATE W/ TREMIE

Placement Vol. (yd³): 35

Cylinders Made By: KARL GIMPEL

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

Admixtures: MIDRANGE
AIR

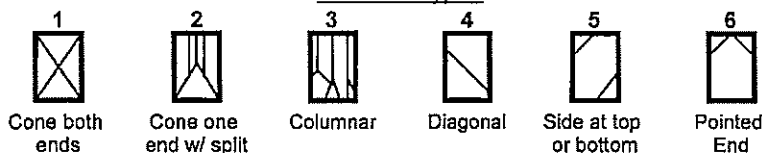
TEST RESULTS

Slump (in) (C-143): **Slump WR:** 6
Air Content (%) (C-231) **Air WR:** 4.8
Air Temp (°F): 85
Conc. Temp (°F) (C-1064): 79

Load Number: 2 **Batch**
Mixer Number: 303 3:39
Ticket Number: 475 **Arrive**
3:43
Cubic Yards: 10 **Depart**
4:10
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)
711-2A	8.20	4.01	12.60	9/22/2015	Lab	7	5	34.0	2700
711-2B	8.20	4.00	12.54	10/13/2015	Lab	28	5	47.6	3800
711-2C	8.20	4.00	12.56	10/13/2015	Lab	28	4	44.2	3520
711-2D	8.20			Hold	Lab				

Fracture Types



Remarks:



Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - 421 Warren Avenue - Holmes Building -
Special Inspections & Materials Testing

Project Number: 13-1392.1

Client: Biskup Construction, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: HISSONG CONCRETE

PLACEMENT INFORMATION

Date Cast: 9/16/2015 **Time Cast:** 2:05 **Date Received:** 9/17/2015

Placement Location: FOOTINGS

Placement Method: TAILGATE

Placement Vol. (yd³): 10

Cylinders Made By: JUSTIN ROUILLARD

Aggregate Size (In): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) 64 **Maximum (°F)** 87

DELIVERY INFORMATION

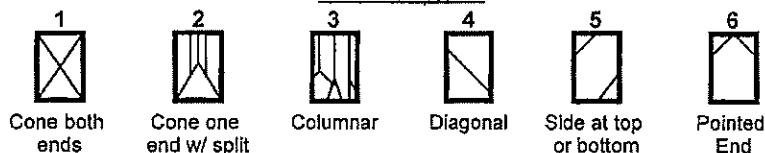
Admixtures: MRWR

TEST RESULTS

Slump (in) (C-143):	Slump WR:	5	Load Number:	Batch
Air Content (%) (C-231)	Air WR:	5.5	Mixer Number: 326	1:56
Air Temp (°F):	86		Ticket Number 485	Arrive
Conc. Temp (°F) (C-1064):	83		Cubic Yards: 10	2:00
			Design (psi): 3000	Depart
				2:30

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)
711-3A	5.25	4.01	12.63	9/23/2015	Lab	7	4	31.4	2490
711-3B	5.30	3.99	12.53	10/14/2015	Lab	28	4	42.8	3420
711-3C	5.35	4.00	12.55	10/14/2015	Lab	28	4	41.8	3330
711-3D	5.25			Hold	Lab				

Fracture Types



Remarks:



Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - 421 Warren Avenue - Holmes Building -
Special Inspections & Materials Testing

Project Number: 13-1392.1

Client: Biskup Construction, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: HISSONG CONCRETE

PLACEMENT INFORMATION

Date Cast: 9/22/2015 **Time Cast:** **Date Received:**

Placement Location: LINE 6, 7.9 TO 13, ALL OF LINE 13, LINE A 9 TO 13

Placement Method: TRUCK CHUTE

Placement Vol. (yd³): 40

Cylinders Made By: JOSHUA MOORE

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

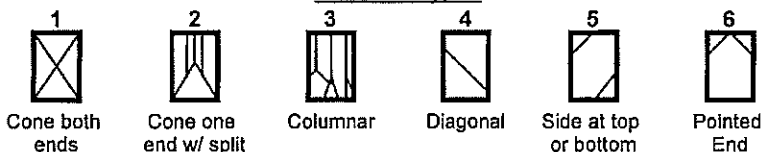
Admixtures: MRWR

TEST RESULTS

Slump (in) (C-143):	6	Load Number: 4	Batch
Air Content (%) (C-231)	5.5	Mixer Number: 303	2:20
Air Temp (°F):	70	Ticket Number: 527	Arrive
Conc. Temp (°F) (C-1064):	75	Cubic Yards: 10.5	2:30
		Design (psi): 3000	Depart

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)
711-4A	8.30	4.00	12.59	9/29/2015	Lab	7	4	24.8	1970
711-4B	8.30	3.99	12.48	10/14/2015	Lab	22	4	36.0	2890
711-4C	8.30	4.00	12.59	10/20/2015	Lab	28	4	39.4	3130
711-4D	8.30	4.01	12.60	10/20/2015	Lab	28	4	38.6	3060

Fracture Types



Remarks:



Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - 421 Warren Avenue - Holmes Building -
Special Inspections & Materials Testing

Project Number: 13-1392.1

Client: Biskup Construction, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: HISSONG CONCRETE

PLACEMENT INFORMATION

Date Cast: 9/28/2015 **Time Cast:** 2:07 **Date Received:** 9/29/2015

Placement Location: WALLS: G/7 (+8) TO G/5 TO J/5 TO J (+6)/1

Placement Method: TAILGATE

Placement Vol. (yd³): 33.5

Cylinders Made By: KARL GIMPEL

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

Admixtures: MIDRANGE
AIR

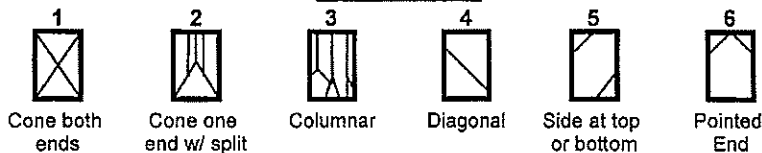
TEST RESULTS

Slump (in) (C-143): **Slump WR:** 5 3/4
Air Content (%) (C-231) **Air WR:** 6.2
Air Temp (°F): 75
Conc. Temp (°F) (C-1064): 77

Load Number: 3 **Batch:** 1:35
Mixer Number: 317
Ticket Number: 573 **Arrive:** 1:42
Cubic Yards: 8.5
Design (psi): 3000 **Depart:** 2:20

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)
711-5A	8.20	4.00	12.57	10/5/2015	Lab	7	2	31.6	2510
711-5B	8.25	4.01	12.60	10/14/2015	Lab	16	4	40.0	3180
711-5C	8.20	4.00	12.55	10/26/2015	Lab	28	4	42.0	3350
711-5D	8.20	4.01	12.60	10/26/2015	Lab	28	5	44.6	3540

Fracture Types



Remarks:



Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - 421 Warren Avenue - Holmes Building -
Special Inspections & Materials Testing

Project Number: 13-1392.1

Client: Biskup Construction, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: HISSONG CONCRETE

PLACEMENT INFORMATION

Date Cast: 10/2/2015 **Time Cast:** **Date Received:** 10/5/2015

Placement Location: WALLS: J/1 TO A/1 TO A/G + 18'
FOOTING: A/8 TO A/10

Placement Method:

Placement Vol. (yd³):

Cylinders Made By: JOSHUA MOORE

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

Admixtures:

TEST RESULTS

Slump (in) (C-143): 4.5

Load Number: **Batch**

Air Content (%) (C-231) 5.2

Mixer Number:

Air Temp (°F):

Ticket Number **Arrive**

Conc. Temp (°F) (C-1064): 67

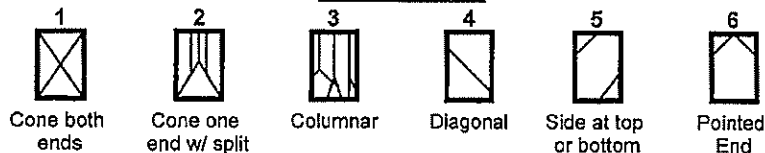
Cubic Yards:

Depart

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)
711-6A	8.20	4.01	12.60	10/9/2015	Lab	7	3	31.6	2510
711-6B	8.20	3.98	12.46	10/14/2015	Lab	12	4	39.0	3130
711-6C	8.25	4.00	12.55	10/30/2015	Lab	28	4	43.6	3470
711-6D	8.15	4.00	12.54	10/30/2015	Lab	28	5	46.6	3720

Fracture Types



Remarks:



Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - 421 Warren Avenue - Holmes Building -
Special Inspections & Materials Testing

Project Number: 13-1392.1

Client: Biskup Construction, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: HISSONG CONCRETE

PLACEMENT INFORMATION

Date Cast: 10/5/2015 **Time Cast:** 2:16 **Date Received:**

Placement Location: WALL - LINE A FROM 6.5 TO 8.9
PIER FOOTING - LINE 2, 3 & 4 ON G

Placement Method: TRUCK CHUTE **Placement Vol. (yd³):** 19

Cylinders Made By: FRANK CLARK **Aggregate Size (in):** 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

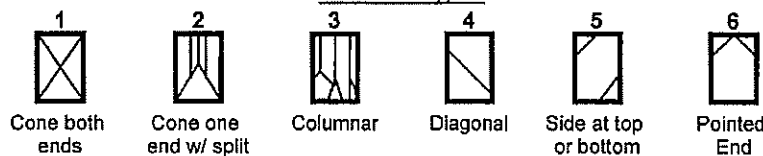
Admixtures: AIR
MIDRANGE

TEST RESULTS

Slump (in) (C-143):	Slump WR: 4	Load Number: 1	Batch
Air Content (%) (C-231)	Air WR: 4.6	Mixer Number: 303	1:09
Air Temp (°F): 76		Ticket Number: 607	Arrive
Conc. Temp (°F) (C-1064): 69		Cubic Yards: 10	1:24
		Design (psi): 3000	Depart
			2:19

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)
711-7A		4.00	12.57	10/12/2015	Lab	7	4	32.0	2550
711-7B		3.99	12.52	10/14/2015	Lab	9	4	32.6	2600
711-7C		4.00	12.57	11/2/2015	Lab	28	4	45.4	3610
711-7D		4.00	12.58	11/2/2015	Lab	28	4	44.0	3500

Fracture Types



Remarks:



Report of Grout Specimen Compressive Strength

ASTM C1019

Project Name: Portland ME - 421 Warren Avenue - Holmes Building -
Special Inspections & Materials Testing

Project Number: 13-1392.1

Client: Biskup Construction, Inc.

Client Contract Number:

General
Contractor:

Supplier: ON-SITE

PLACEMENT INFORMATION

Date Cast: 11/5/2015 Time Cast: 2:40 Date Received: 11/6/2015

Placement Location: 8" BLOCK WALLS EXTERIOR 4' LINE A BETWEEN 1 & 5

Placement Method: HAND

Placement Vol. (yd³):

Specimen Made By: CHARLES CROMWELL

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) 53 Maximum (°F) 65

DELIVERY INFORMATION

Admixtures:

TEST RESULTS

Slump (in) (C-143):

Batch Number: 1

Air Temp (°F): 60

Mixer Number:

Grout Temp (°F) (C-1064): 62

Ticket Number:

Design (psi):

Specimen Designation	Area(In) ²	Date Of Test	Age (days)	Load (kips)	Strength (psi)
711-8A	11.19	11/12/2015	7	26.6	2380
711-8B	11.33	12/3/2015	28	24.2	2140
711-8C	11.14	12/3/2015	28	26.4	2370
711-8D					

Remarks:



Masonry Construction Observation Report

Project Name/Location:	421 Warren Avenue – Holmes Building	Project No:	13-1392.1
Client/Client's Rep.:	Biskup Construction Inc. / Jim Biskup	Date:	10-30-15
Masonry Contractor:		Sheet:	1 of 1
Placement Location:	A-line	S.W.COLE Rep.:	K. Gimpel
Weather:	Sunny, 50's	On Site:	10:00 – 10:15

Referenced Drawings	Date	Page	Revision	Comments
Associated Design Partners, Inc.	8-5-14	S-2		

Masonry Construction	Observed	
Proportioning of site-mixed mortar	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Type S 80 pound bags, pre-mixed
Placement of units and construction of mortar joints	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Running bond, full joint construction
Joint reinforcing (type, spacing, laps)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	#9 mill galvanized truss type @ 16" O.C.
Vertical reinforcing (size, spacing, positioners, laps)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	#4 @ 48" O.C.
Horizontal reinforcing (size, spacing, positioners, laps)	Yes <input type="checkbox"/> No <input type="checkbox"/>	N/A
Cold-weather / Hot-weather construction (temperature, practices)	Yes <input type="checkbox"/> No <input type="checkbox"/>	N/A
Embedments and anchor bolts	Yes <input type="checkbox"/> No <input type="checkbox"/>	N/A
Installation of flashing and weeps – material and placement	Yes <input type="checkbox"/> No <input type="checkbox"/>	N/A

Grout Placement	Observed	
Grout space (cleanliness, mortar fins, size/alignment, etc.)	Yes <input type="checkbox"/> No <input type="checkbox"/>	Grout will be sampled for laboratory compressive strength testing as requested when scheduled.
Lift height (cleanouts if needed)	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Proportions of site-mixed grout or vendor mix used	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Placement of grout (consolidation, reconsolidation)	Yes <input type="checkbox"/> No <input type="checkbox"/>	

Field Testing Performed <i>refer to associated specimen test report</i>	Mortar <input type="checkbox"/>	Grout <input type="checkbox"/>	Prism <input type="checkbox"/>
SET NO:	N/A	Pending	N/A

NON-CONFORMANCE ITEMS OBSERVED (person notified) Yes No

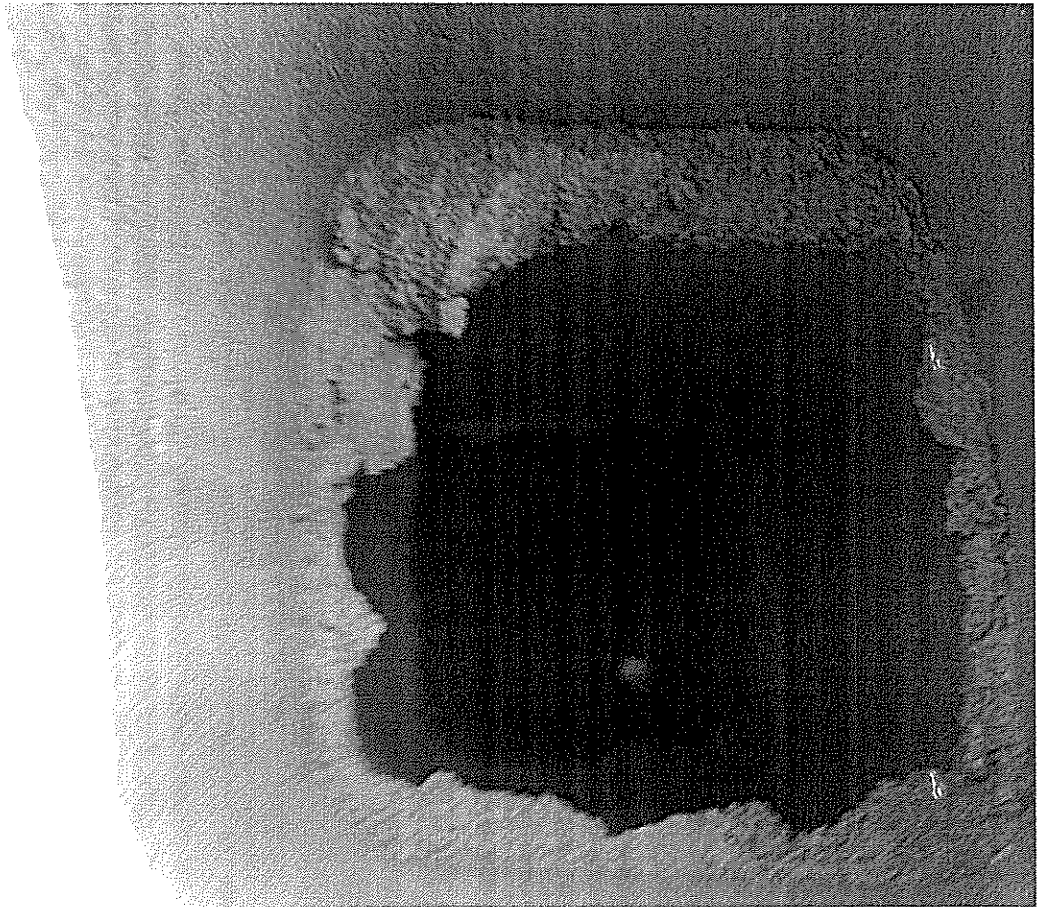
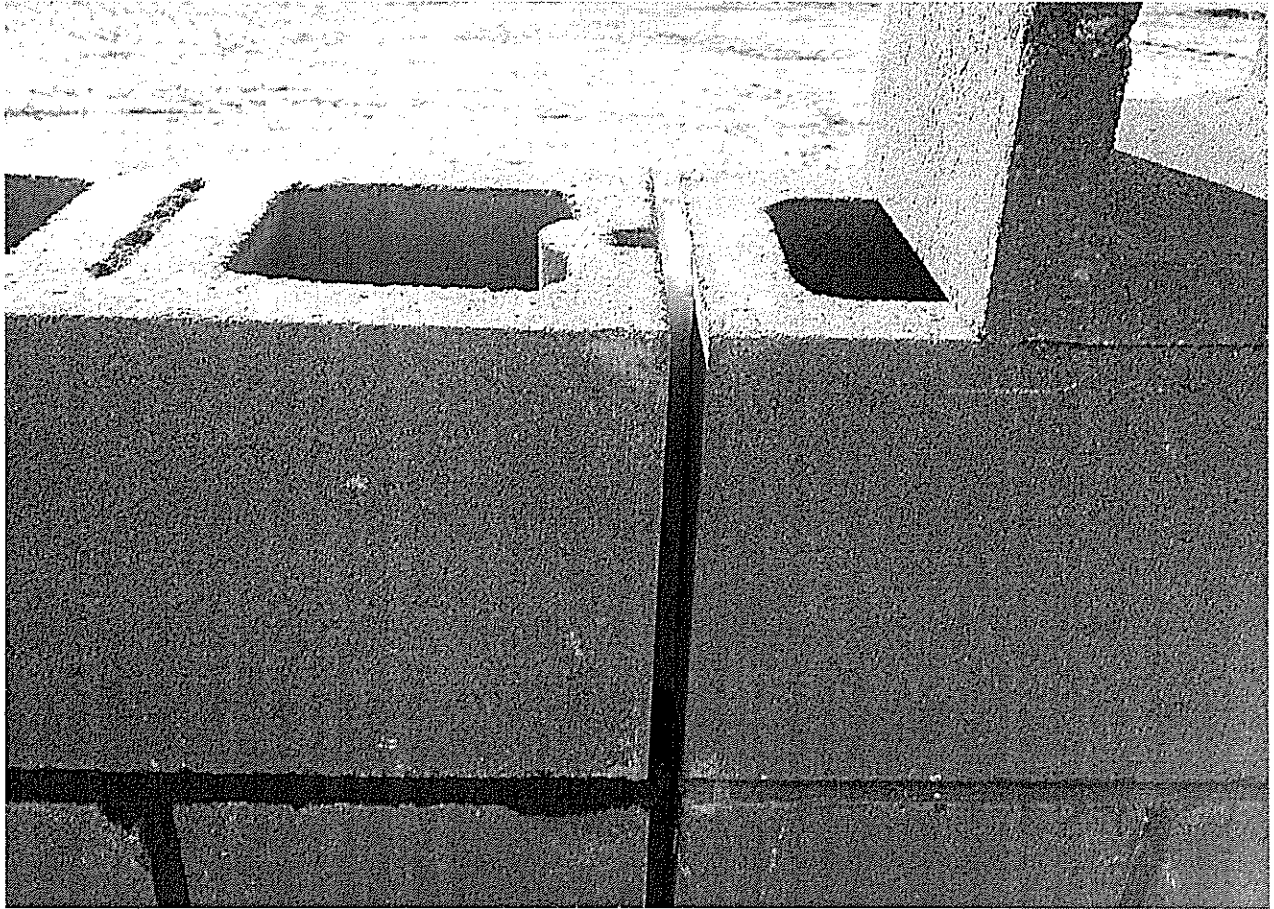
Notes:

As requested, we made a site visit to make observations of masonry construction. At the time of our visit, temperatures were moderate and no special cold weather requirements were required. Masonry for this project consists of 5 courses of 8-inch split face units on "A" and 13-lines. A-line was recently completed and work on 13-line had just begun. Reinforcing consists of #4 vertical reinforcing at 4 feet on center with a splice length of approximately 22 inches (splice bar planned to be wet set immediately after grout placement). Wire joint reinforcing is being utilized at 16 inches on center (on top of the second and fourth courses). We understand from conversations with Biskup Construction the entire wall will be grouted solid.

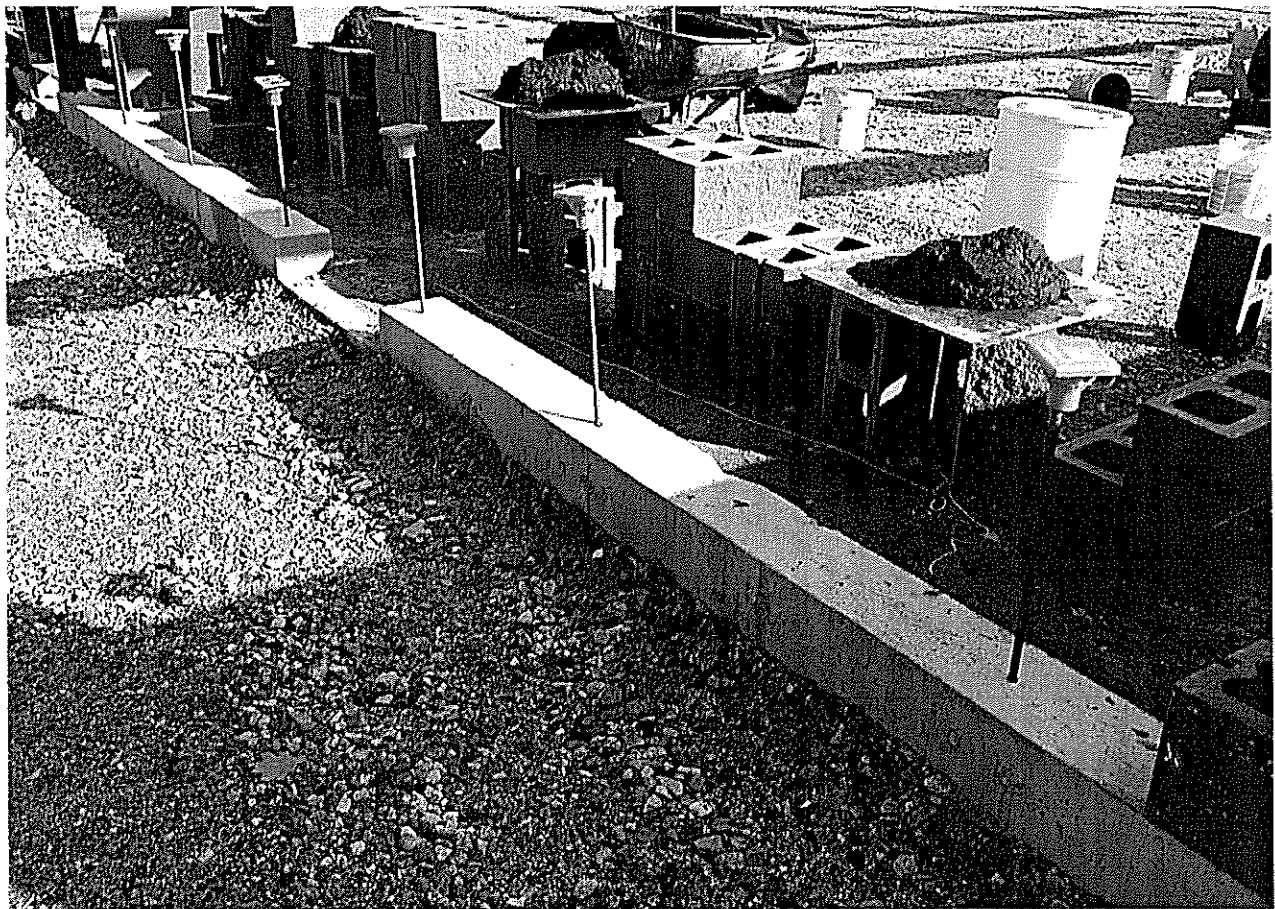
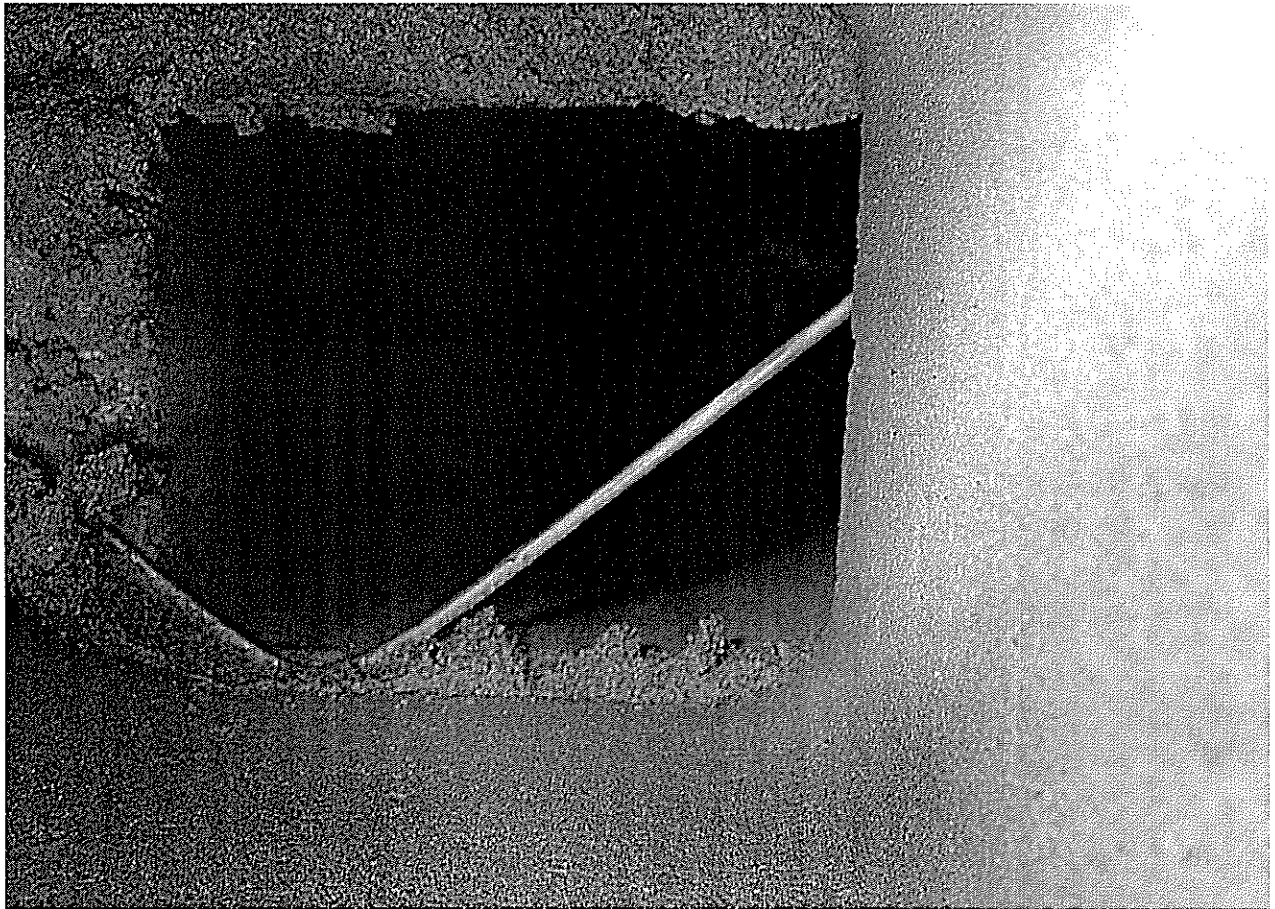
Attachments: Photos

Reviewed By: RED

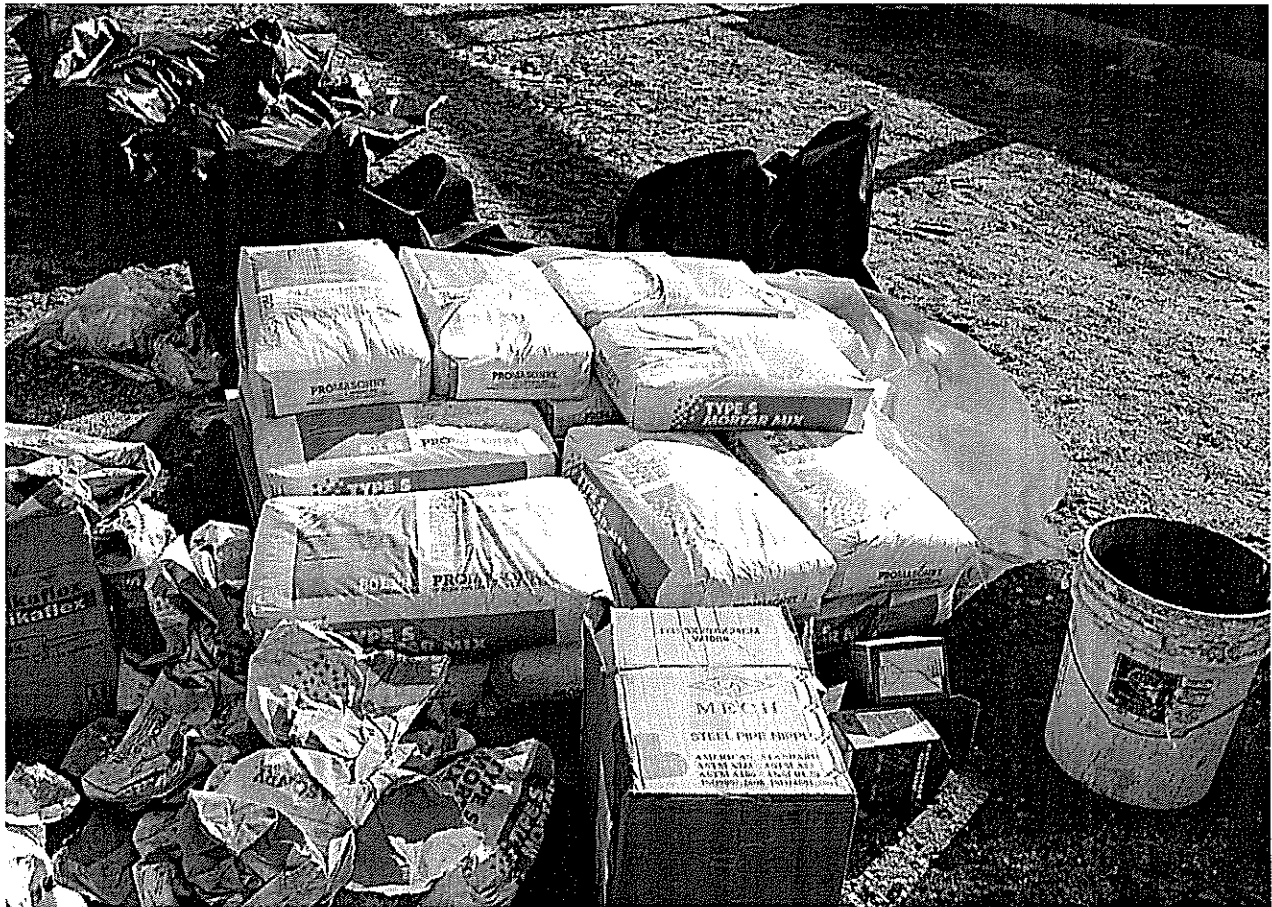
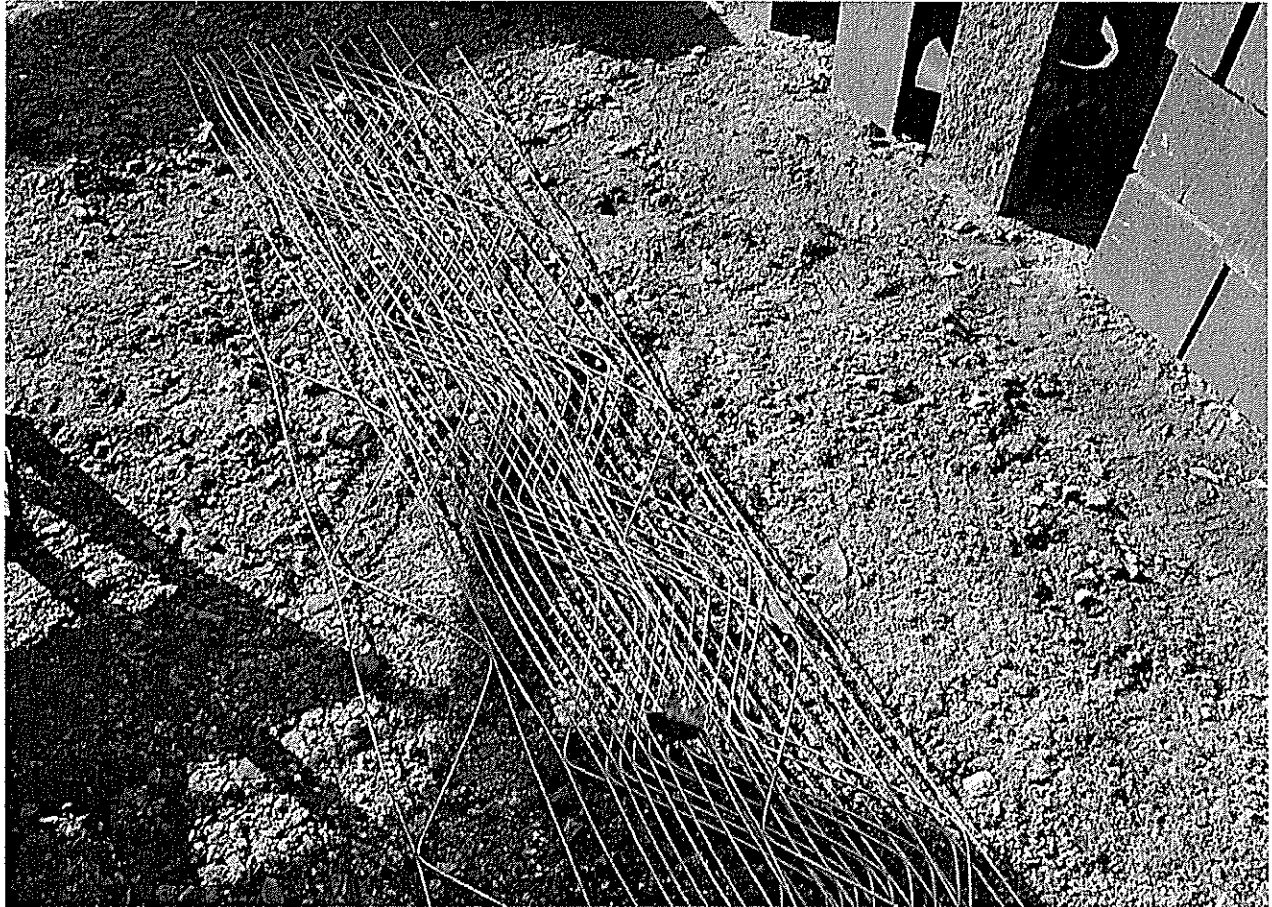
The S.W.COLE field representative is on-site at the request of our client to provide construction materials testing and to observe and document construction activities. The contractor has sole responsibility for schedule, site safety, methods, completeness and quality control.



10/9/15



10/20/15



International Accreditation Service

CERTIFICATE OF ACCREDITATION

This is to signify that


PACKAGE STEEL SYSTEMS, INC.

15 HARBACK ROAD
SUTTON, MASSACHUSETTS 01590

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

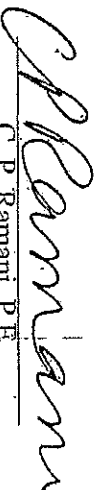
has demonstrated that its in-plant inspection program for Part A-Fabrication of Structural Weldments and Cold-formed Products Requiring Welding, Part B-Fabrication of Cold-formed Products Not Requiring Welding, and/or Part C-Design of Metal Building Systems is in compliance with the International Accreditation Service, Inc., Accreditation Criteria for Inspection Programs for Manufacturers of Metal Building Systems (ACC472) and is recognized under Section 1704.2.5.2 of the 2012 *International Building Code*[®], and Section 1704.2.2 of earlier code editions, commencing January 1, 2015; expiring December 31, 2015.

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 Architectural Testing, Inc. (AA-676), 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 specific design or performance characteristics of fabricated products.


Patrick V. McCullen
Vice President, Chief Technical Officer



ACCREDITED


C. P. Ramani, P.E.
President

Print Date: 12/18/2014

This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation. See the IAS Accreditation Listings on the web at www.iasonline.org for current accreditation information, or contact IAS directly at (562) 364-8201.

Client: S.W. Cole Engineering, Inc.

Project: 421 Warren Ave. – Peter Holmes Building

SWCE Project #: 13-1392.1

Date: November 17, 2015

Subject: Structural Steel Site Inspection

Report: 001

As requested a structural steel inspection was performed on this date. Upon arrival we met with the superintendent. All primary framing was completed. Flange braces, girts and other perimeter details were in process. Inspection was performed using the manufacturers' drawings as follows:

- Baseplates were inspected for suitable bearing and tightened anchor rod nuts.
- Columns were checked for plumb using a 6'-0 level.
- Bolted connections were accessed and inspected for conformance to RCSC specifications.
- Braces were inspected for correct installation.
- Framing was inspected for overall conformance to drawings.

All work inspected appears acceptable.

The superintendent was advised of our observations.

Inspector; Neal J White
CWI #86070201
ICC #8014170-S1



Report of Field Density

ASTM D6938

Project: PORTLAND ME - 421 WARREN AVENUE - HOLMES BUILDING - SPECIAL INSPECTIONS & MATERIALS TESTING

Project Number: 13-1392.1

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	11/5/2015	CLC	FRAME LINE 3, 105' OFF LINE A	FG	12	19894G	136.7	4.5	103.7	95
2	11/5/2015	CLC	FRAME LINE C, 10' OFF LINE 1	FG	12	19894G	130.6	2.4	99.1	95
3	11/5/2015	CLC	FRAME LINE C, 5' OFF LINE 1 INTERIOR	FG	10	20027G	122.3	2.7	95.7	95
4	11/5/2015	CLC	FRAME LINE 3, 5' OFF LINE J INTERIOR	FG	10	20027G	124.5	2.9	97.4	95
5	11/5/2015	CLC	FRAME LINE 8, 5' OFF LINE G INTERIOR	FG	10	20027G	125.9	2.8	98.5	95
6	11/5/2015	CLC	FRAME LINE 8, 5' INSIDE A LINE INTERIOR	FG	10	20027G	128.5	3.0	100.5	95
7	11/5/2015	CLC	FRAME LINE 13, 5' OFF AT E LINE	FG	10	20027G	126.5	3.1	99.0	95
8	11/5/2015	CLC	2' OFF G ON E LINE EXTERIOR	FG	12	19894G	130.4	2.1	98.9	92
9	11/5/2015	CLC	3' OFF A ON 11 LINE EXTERIOR	FG	12	19894G	134.9	2.0	102.4	92
10	11/5/2015	CLC	11 LINE 75' OFF A LINE	FG	10	19894G	131.8	2.4	100.0	92

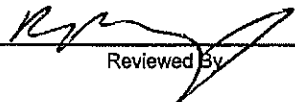
Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
19894G	9/10/2015	Pike - Varney Mills	Gravel	ASTM D-1557 Modified C	131.8	6.3	
20027G	10/13/2015	Pike - Varney Mills	Pro-Base	1 B	127.8	7.3	

Elevation Notes:

FG - FINISH GRADE

Comments:



 Reviewed By

2nd Sample



Report of Moisture-Density

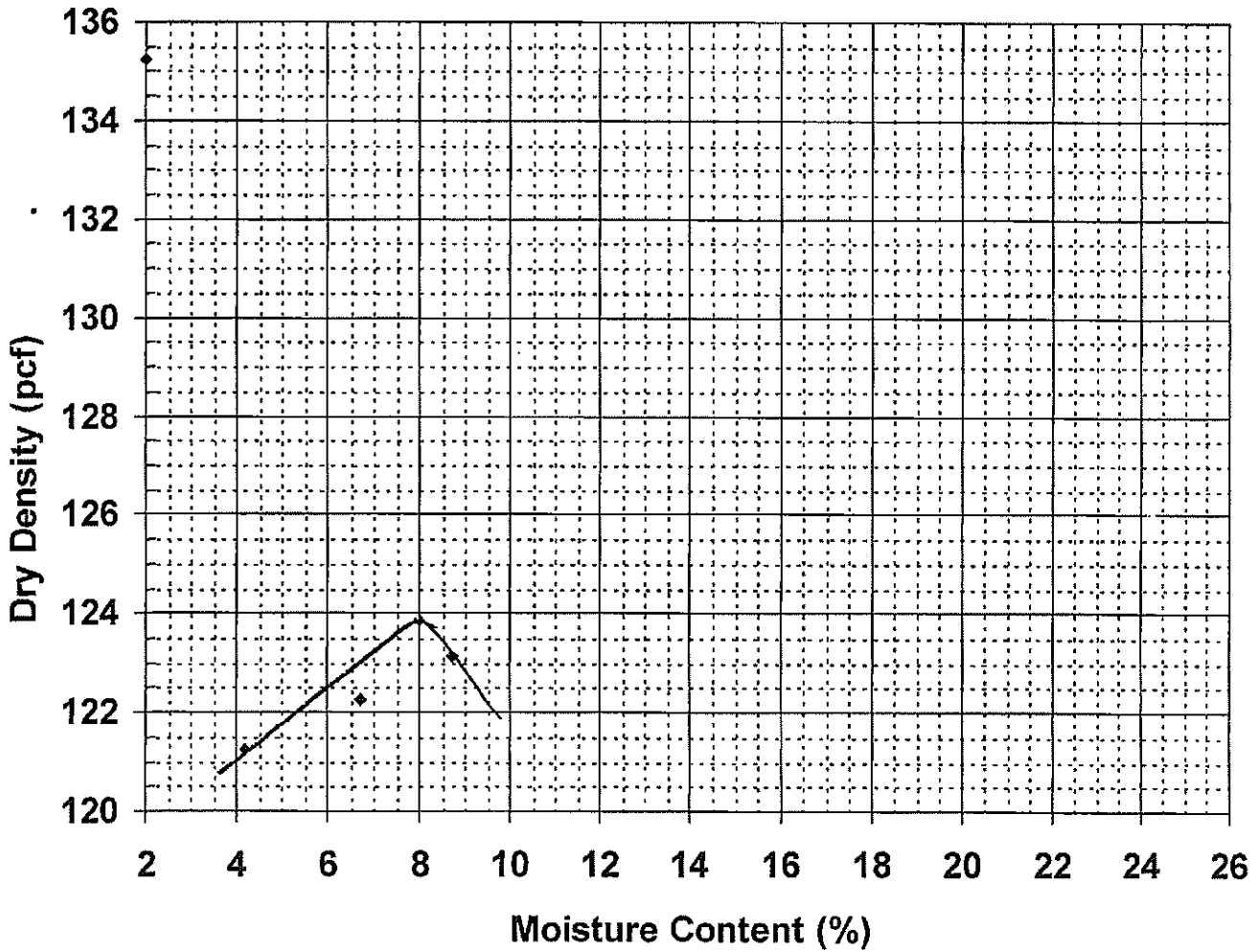
Method 1

Procedure B

Project Name WESTBROOK ME - 2015 AGGREGATE SUBMITTAL TESTING
 Client EASTERN EXCAVATION
 Material Type PRO-BASE
 Material Source PIKE - VARNEY MILLS

Project Number 15-0279
 Lab ID 20027G
 Date Received 10/13/2015
 Date Completed 10/20/2015
 Tested By PAUL SHAFFER

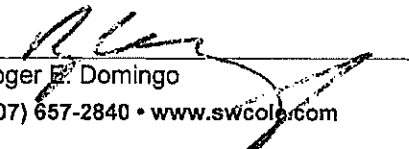
Moisture-Density Relationship Curve



Maximum Dry Density (pcf) 124
 Optimum Moisture Content (%) 8.2
 Percent Oversized 13.9%

Corrected Dry Density (pcf) 127.8
Corrected Moisture Content (%) 7.3

Comments


 Roger E. Domingo



Report of Gradation

ASTM C-117 & C-136

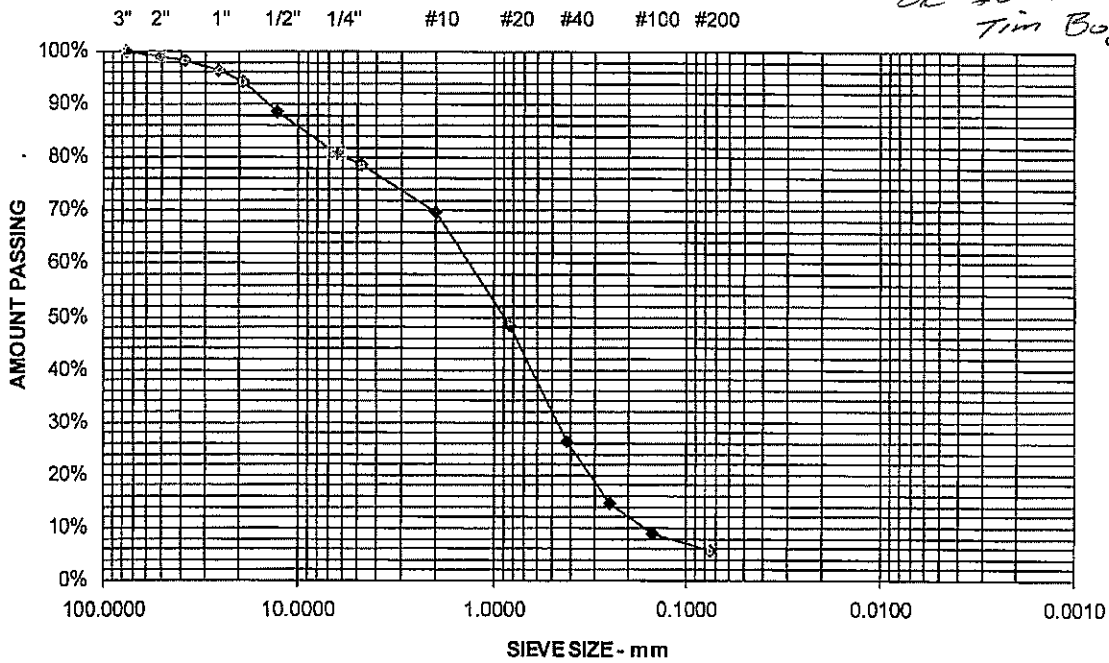
Project Name WESTBROOK ME - 2015 AGGREGATE SUBMITTAL TESTING
 Client EASTERN EXCAVATION
 Material Type PRO-BASE
 Material Source PIKE - VARNEY MILLS

Project Number 15-0279
 Lab ID 20027G
 Date Received 10/13/2015
 Date Completed 10/14/2015
 Tested By JUSTIN BISSON

STANDARD DESIGNATION (mm/μm)	SIEVE SIZE	AMOUNT PASSING (%)	SWCE STRUCTURAL FILL SPECIFICATIONS (%)
150 mm	6"	100	
125 mm	5"	100	
100 mm	4"	100	100
75 mm	3"	100	90 - 100
50 mm	2"	99	
38.1 mm	1-1/2"	98	
25.0 mm	1"	97	
19.0 mm	3/4"	94	
12.5 mm	1/2"	89	
6.3 mm	1/4"	81	25 - 90
4.75 mm	No. 4	79	
2.00 mm	No. 10	70	
850 μm	No. 20	48	
425 μm	No. 40	26	0 - 30
250 μm	No. 60	14	
150 μm	No. 100	9	
75 μm	No. 200	5.6	0.0 - 5.0 †

† SAMPLE DOES NOT MEET SPECIFICATION

*ok do not use for
 Tim Boyce 9/15/15*



Comments

[Signature]
 Roger E. Domingo



Report of Gradation

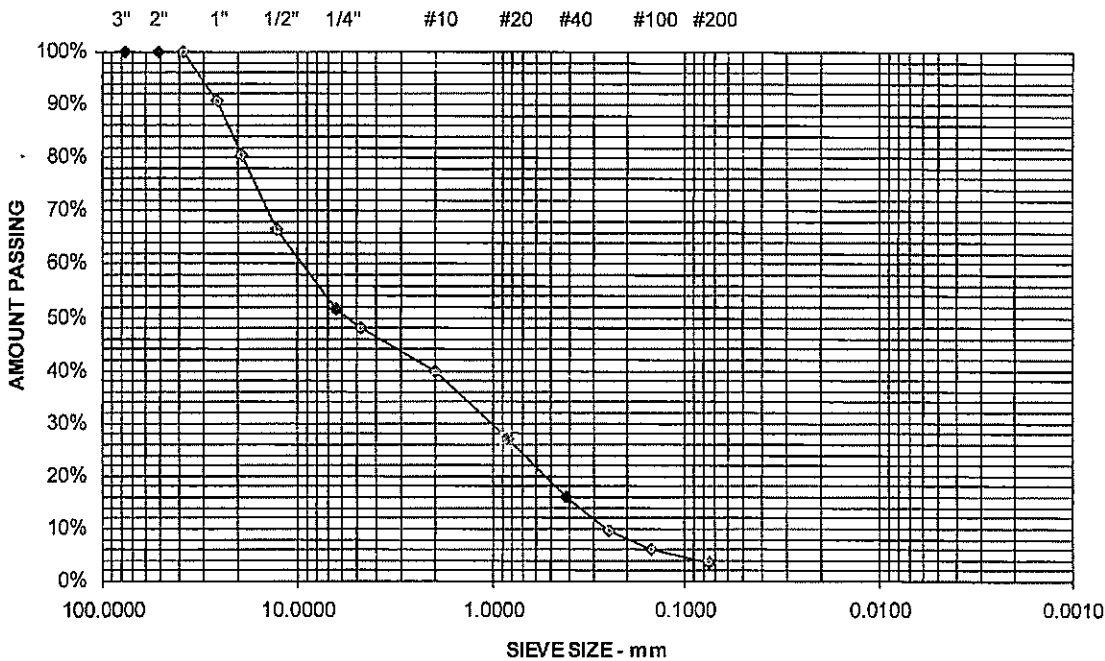
ASTM C-117 & C-136

Project Name PORTLAND ME - 421 WARREN AVENUE - HOLMES BUILDING - SPECIAL INSPECTIONS & MATERIALS TESTING
 Client BISKUP CONSTRUCTION, INC.
 Material Type GRAVEL
 Material Source PIKE - VARNEY MILLS

Project Number 13-1392.1
 Lab ID 19894G
 Date Received 9/10/2015
 Date Completed 9/11/2015
 Tested By JUSTIN BISSON

<u>STANDARD DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	<u>MDOT 703.06 TYPE A SPECIFICATIONS (%)</u>
150 mm	6"	100	
125 mm	5"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	100
38.1 mm	1-1/2"	100	
25.0 mm	1"	91	
19.0 mm	3/4"	81	
12.5 mm	1/2"	66	45 - 70
6.3 mm	1/4"	52	30 - 55
4.75 mm	No. 4	48	
2.00 mm	No. 10	40	
850 μm	No. 20	27	
425 μm	No. 40	16	0 - 20
250 μm	No. 60	10	
150 μm	No. 100	6	
75 μm	No. 200	3.4	0.0 - 5.0

SAMPLE MEETS SPECIFICATION



Comments

Roger E. Domingo



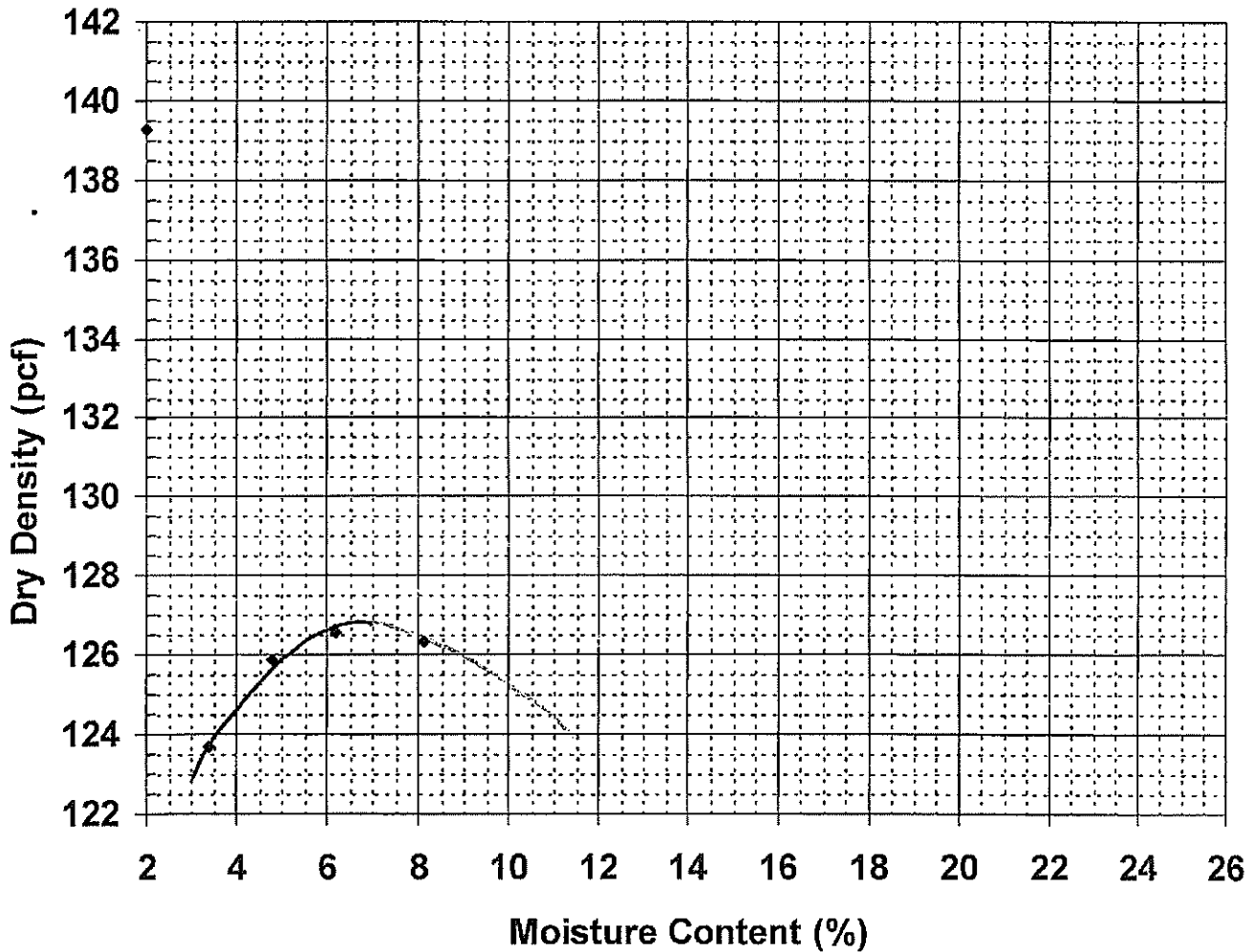
Report of Moisture-Density

Method ASTM D-1557 MODIFIED Procedure C

Project Name PORTLAND ME - 421 WARREN AVENUE - HOLMES
 BUILDING - SPECIAL INSPECTIONS & MATERIALS TESTING
 Client BISKUP CONSTRUCTION, INC.
 Material Type GRAVEL
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Moisture-Density Relationship Curve



Maximum Dry Density (pcf)	126.9	<u>Corrected Dry Density (pcf)</u>	<u>131.8</u>
Optimum Moisture Content (%)	7.3	<u>Corrected Moisture Content (%)</u>	<u>6.3</u>
Percent Oversized	19.4%		

Comments

Roger E. Domingo