

# BECKER

structural engineers

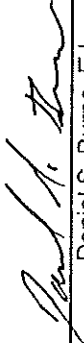
Date: October 1, 2002  
 Time: 9:30 A.M.  
 Temp: low 70's  
 Weather: Sunny

Project: H.P. Hood Bottle Conveyor  
Bridge & Facility

Inspection Report - Cast-in-place Concrete  
 Location: Machinery Support Walls Between Col. Line "G"-Col. Line "F", Exterior  
Wall: "G-4" - "F-4"

Satisfactory		Unsatisfactory		Not Completed		N/A	
Satisfactory	Unsatisfactory	Not Completed	N/A	Satisfactory	Unsatisfactory	Not Completed	N/A
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Notes: I reviewed the reinforcement at locations noted above. The following items were noted to not be in conformance with the project documents or ACI standards. All items were discussed with the Project Superintendent Sean Boyles, it was agreed that all items noted would be corrected prior to concrete pour. 1) Dowels into existing concrete were noted to not be epoxied. Discussed cleaning holes prior to placing epoxy. 2) Wall intersection reinforcement noted to be tied to inside face of adjoining wall. Reinforcement to be relocated to outside face. 3) (1) horizontal bar at "F-4" pier vicinity noted to be on wrong side of vertical steel. 4) Pier reinforcement at "G4" pier noted to be in contact with form. Pier reinforcement to be pulled back to allow proper coverage. 5) Top horizontal reinforcement had not yet been tied to proper location.

Signed:  Date: 10/01/02  
 Daniel S. Burne, E.I.

WO 893

# BECKER

structural engineers

Date: October 15, 2002  
 Time: 2:30 P.M.  
 Temp: low 60's  
 Weather: Sunny

Project: H.P. Hood Bottle Conveyor  
Bridge & Facility

Inspection Report - Cast-in-place Concrete

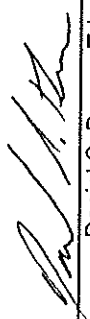
Location: Pile Cap "4B" (West End of Bridge)

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

	Satisfactory	Unsatisfactory	Not Completed	N/A	Additional Items:
Reinforcement Size					
Quantity	x				
Condition	x				
Placement	x				
Embed/Anchors				x	
Lap Splices				x	
Reinf. Weld				x	
Hot Weather				x	
Cold Weather				x	

Notes: I reviewed reinforcement for pilecap "4B" at the west end of the bridge. Pilecap reinforcement conformed to project documents and ACI standards.

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Signed:  Date: 10/15/02  
 Daniel S. Burne, E.I.

WO 893

# BECKER

structural engineers

Date: October 17, 2002  
 Time: 8:30 A.M.  
 Temp: low 60's  
 Weather: Sunny

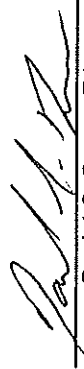
Project: H.P. Hood Bottle Conveyor  
Bridge & Facility

Inspection Report - Cast-in-place Concrete

Location: Concrete walls: "4E"- "4F", "2E"- "2F", (2) Interior Walls within Bay: "F", "E"

	Satisfactory	Unsatisfactory	Not Completed	N/A	Additional Items:
Reinforcement Size					
Quantity	X				
Condition	X				
Placement		X			
Embed/Anchors		X			
Lap Splices	X				
Reinf. Weld		X			
Hot Weather		X			
Cold Weather		X			

Notes: I reviewed the reinforcement at the locations noted above. The reinforcement at the wall intersections was noted to not be in conformance with the project documents or ACI standards. Bars were located at the inside face of adjoining wall. Discussed relocating to outside face with Project Superintendent Sean Boyles, it was agreed bars would be corrected prior to pour. At the time of the visit embedded angles, and the top reinforcement at the 8" wall, had not yet been secured. We discussed all items would be secure prior to pour. A bondout in the concrete curb, for the knockout panel column, had not yet been placed. We discussed placing curb bondout prior to pour.

Signed:  Date: 10/17/02  
 Daniel S. Burne, E.I.

WO 893

# BECKER

structural engineers

Date: October 21, 2002  
 Time: 10:30 A.M.  
 Temp: low 60's  
 Weather: Cloudy

Project: H.P. Hood Bottle Conveyor  
Bridge & Facility

Inspection Report - Cast-in-place Concrete

Location: Wall & column footings along "1" line.  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

		Reinforcement Size								Additional Items:	
		Quantity								N/A	
		Condition								Satisfactory	
		Placement								Unsatisfactory	
		Embed/Anchors								Not Completed	
		Lap Splices								N/A	
		Reinf. Weld								Satisfactory	
		Hot Weather								Unsatisfactory	
		Cold Weather								Not Completed	
x											
x											
x											
				x							
				x							
				x							
								x			
								x			
								x			

Notes: I reviewed reinforcement at the location noted above. At the time of my visit, footing reinforcement for the wall footing, and tied mats for the column footings, along line "1" had been laid out. Reinforcement had not yet been tied in place, vertical dowels had not yet been installed. Remainder of footings for the loading dock area were poured prior to reinforcement inspection.  
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Signed:  Date: 10/21/02  
 Daniel S. Burne, E.I.

WO 893

# BECKER

structural engineers

Date: October 21, 2002  
 Time: 10:30 A.M.  
 Temp: low 60's  
 Weather: Cloudy

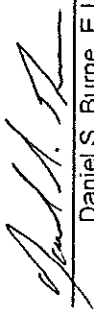
Project: H.P. Hood Bottle Conveyor  
Bridge & Facility

Inspection Report - Cast-in-place Concrete

Location: Concrete cheek wall at "E" line  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

	Satisfactory	Unsatisfactory	Not Completed	N/A	Additional Items:
Reinforcement Size					
Quantity	x				
Condition	x				
Placement	x				
Embed/Anchors			x		
Lap Splices	x				
Reinf. Weld			x		
Hot Weather			x		
Cold Weather			x		

Notes: I reviewed the reinforcement at the location noted above. Wall reinforcement conformed to project documents and ACI standards. Embedded angle had not yet been placed, was to be secured prior to pour.  
 \_\_\_\_\_  
 \_\_\_\_\_  
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 \_\_\_\_\_  
 \_\_\_\_\_

Signed:  Date: 10/21/02  
 Daniel S. Burne, E.I.

WO 893

# BECKER

structural engineers

Date: October 24, 2002  
 Time: 5:30 P.M.  
 Temp: mid 60's  
 Weather: partly cloudy

Project: H.P. Hood Bottle Conveyor  
Bridge & Facility

Inspection Report - Cast-in-place Concrete

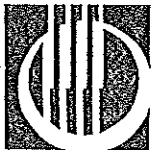
Location: Silo Pilecap  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

	Satisfactory	Unsatisfactory	Not Completed	N/A	Reinforcement Size	Additional Items:
	x				Quantity	
	x				Condition	
	x				Placement	
	x				Embed/Anchors	
	x				Lap Splices	
				x	Reinf. Weld	
				x	Hot Weather	
				x	Cold Weather	

Notes: On 10-3-02 (light rain, 64 degrees) the silo pilecap was poured without an inspection of the reinforcement. I reviewed several photos of the reinforcement, as installed prior to the pour, and all appeared to conform to project documents and ACI standards. At that time I learned that the silo anchor bolts had been placed in the concrete following the concrete pour and finishing, which does not conform to project documents or ACI standards. On 10-24-02, an anchor bolt "pull test" was performed on each of the (16) anchor bolts, by SW Cole. All anchor bolts met test specifications. See test report by SW Cole.

Signed:  Date: 10/24/02  
 Daniel S. Burne, E.I.

WO 893



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

1.8

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

02-0153.1

December 13, 2002

Centerline Construction  
Attn: Dick Miller  
55 Todd Brook Road  
Freeport, Maine 04032

Subject: Load Testing of Anchor Bolts  
Proposed Building Addition  
H.P. Hood Facility  
Park Avenue  
Portland, Maine

Dear Mr. Miller:

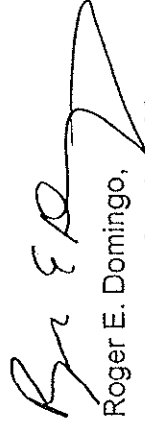
At the request of Centerline Construction, we made a site visit on October 24, 2002 to the H. P. Hood Building Addition project in Portland, Maine. The purpose of our visit was to perform load tests on anchor bolts in the proposed silo pier.

The sixteen 3/4 inch diameter threaded rods were loaded at 2 kips increments to a total load of 8 kips. At each 2 kip increment the load was locked-off for approximately 30 seconds and locked-off for 5 minutes at the 8 kip load. After the final lock-off, the load was released gradually. The tests were performed using a 50-ton hydraulic jack (Cert. No. RJ 315) and 2,000 psi calibrated gauge (Serial No. MTH-36) from Richard Dungeon Inc.

We observed no obvious failure of the anchor bolt or concrete. We have attached a copy of the jack and gauge certification to this report.

If you have any questions regarding this report, please do not hesitate to call.

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

  
Roger E. Domingo,  
Construction Services Manager

CC-Dan Burne -- Becker Structural

RECEIVED

DEC 16 2002

BECKER  
STRUCTURAL ENGINEERING

RICHARD DUDGEON, INC.

1565 RAILROAD AVE. BRIDGEPORT, CT. 06605 TEL:203-336-4459 FAX:203-333-8417

PRESSURE GAUGE  
CERTIFICATION

CUSTOMER: S.W. COLE ENGINEERING

CUSTOMER'S ORDER NO. DUDGEON ORDER NO. ORDER DATE  
VERBAL, ROGER L13417 10/21/02

GAUGE SERIAL NO. CAPACITY  
ATH-310 2,000 PSI 1/2" G

WE HEREBY CERTIFY THE ABOVE HYDRAULIC GAUGE HAVE BEEN TESTED AGAINST OUR  
HEISE DIGITAL PRESSURE INDICATOR, SERIAL NO. S7-9400 AND FOUND TO BE  
WITHIN A STANDARD ACCURACY (PLUS OR MINUS 1/2%) OF FULL SCALE. OUR  
TEST EQUIPMENT IS TRACEABLE TO THE NATIONAL BUREAU OF STANDARDS.

REFERENCE PRESSURE  
(PSI)

0  
200  
400  
600  
800  
1000  
1200  
1400  
1600  
1800  
2000

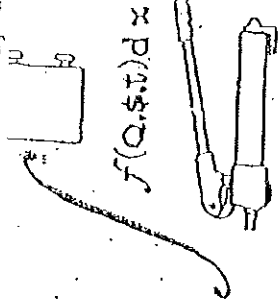
GAUGE READING  
(PSI)

0  
190  
395  
600  
800  
1000  
1200  
1400  
1600  
1840

RICHARD DUDGEON, INC.

W. Deed  
DATE: 10/21/02





**RICHARD DUDGEON, INC.**  
 MANUFACTURERS AND DESIGNERS OF HYDRAULIC SYSTEMS SINCE 1850  
 1625 Railroad Ave., Bridgeport, CT 06605

TEL (800) 286-4459  
 FAX (800) 333-8417  
 (800) 527-7217

**JACK CALIBRATION REPORT**

Cylinder 5.0 Tons Capacity, 6 Stroke, Serial No. RJ 315  
 Gauge 10,000 PSI Rating, 6 Dial Dia., Serial No. E700309

NOTICE: Calibration reports prepared by Richard Dudgeon, Inc. are submitted on a confidential basis and the data contained therein is our customer's proprietary information. Such reports may or may not be used by others without the express written consent of Richard Dudgeon, Inc and its' customer.

Dudgeon Order No. K13412R Order Date 10-14-92 Test Date 10-14-92  
 Customer S.W. Cole Engr'g Purchase Order No. V-20041 Pass  
 Test performed by H. Lourenco In 50 Ton Titinius Olsen Test Machine Co., Universal  
 Test Machine Serial Number 15249

Test Method: Cylinder pressure increased in even increments at slow rate by hydraulic pump. Output force of cylinder measured by Test Machine (within tolerance of one percent) between 1/2' and 50 tons and traceable to the Nat'l Institute of Standards and Technology (formerly the Nat'l Bureau of Standards).

LOAD ON CYLINDER (KIPS/TONS)	GAUGE READINGS IN PSI AT RAM EXTENSIONS OF			AVERAGE PRESSURE (PSI)
	1 INCHES	3 INCHES	5 INCHES	
10	700	700	700	700
20	1400	1400	1400	1400
30	2075	2075	2075	2075
40	2750	2750	2750	2750

# BECKER

structural engineers

Date: October 31, 2002  
 Time: 8:00 A.M.  
 Temp: low 50's  
 Weather: Sunny


Project: H.P. Hood Bottle Conveyor  
Bridge & Facility

Inspection Report - Cast-in-place Concrete

Location: Walls & piers at locations: Loading dock walls along "D" line, "1" line, "A" line, "2.1" line  
"B" line, & "2.8" line. Exterior slab frost walls along "B" & "4" line. Piers & walls at "D4" -  
"C4"

Satisfactory		Unsatisfactory		N/A		Additional Items:	
Satisfactory	Unsatisfactory	Satisfactory	Unsatisfactory	Satisfactory	Unsatisfactory	Satisfactory	Unsatisfactory
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Notes: I reviewed reinforcement at the locations noted above. Reinforcement conformed to project documents  
and ACI standards with the exception of the following: #3 slab dowels (as per 10-25-02 memo) had not  
yet been placed, pier reinforcement at one location was in contact with form, noted two locations  
with intersection bars turned down. Discussed all items with Project Superintendent, Sean Boyles.  
it was agreed that all would be corrected prior to pour.

Signed:  Date: 10/31/02  
 Daniel S. Burne, E.I.

WO 893

# BECKER

structural engineers

Date: November 6, 2002  
 Time: 11:00 A.M.  
 Temp: mid 50's  
 Weather: Rain

Project: H.P. Hood Bottle Conveyor  
Bridge & Facility

Inspection Report - Cast-in-place Concrete  
 Location: Pilecap PC-4A (dairy side)

	Satisfactory	Unsatisfactory	Not Completed	N/A	Additional Items:
Reinforcement Size	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Quantity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Placement	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Embed/Anchors	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Lap Splices	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Reinf. Weld	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Hot Weather	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Cold Weather	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Notes: On 9-25-02, pile # 14 (ref. SW Cole Monitoring Report) was misplaced. On 10-29-02, as a corrective measure, a 4" dia.. concrete filled, pipe pile was placed to eliminate any potential uplift on pile #13. See SW Cole monitoring reports . On 11-6-02, I reviewed reinforcement for the pile cap. Reinforcement conformed to project documents and ACI standards. Embedded items had not been placed at the time of my visit. It was agreed that all items would be placed prior to pour.

Signed:  Date: 11/6/02  
 Daniel S. Burne, E.I.

WO 893

# BECKER

structural engineers

Date: November 19, 2002  
 Time: 10:00 A.M.  
 Temp: Upper 30's  
 Weather: Cloudy

Project: H.P. Hood Bottle Conveyor  
Bridge & Facility

Inspection Report - Cast-in-place Concrete

Location: Grade Beams "B1" & "B2" at loading dock

	Satisfactory	Unsatisfactory	Not Completed	N/A	Additional Items:
Reinforcement Size					
Quantity	X				
Condition		X			
Placement		X			
Embed/Anchors			X		
Lap Splices	X				
Reinf. Weld		X			
Hot Weather			X		
Cold Weather	X				

Notes: I reviewed the reinforcement at the locations noted above. Reinforcement conformed to project documents and ACI standards with the exception of the following: Reinforcement was sandy, select stirrups needed to be pulled from form face to give proper cover. Both items were discussed with Project Superintendent Sean Boyles, it was agreed that stirrups would be straightened and all reinforcement would be cleaned prior to pour. Discussed cold weather procedures with Project Superintendent.

Signed:  Date: 11/19/02  
 Daniel S. Burne, E.I.

WO 893

# BECKER

structural engineers

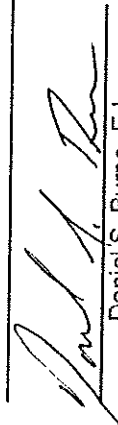
Date: November 26, 2002  
 Time: 12:30 P.M.  
 Temp: low 60's  
 Weather: Sunny

Project: H.P. Hood Bottle Conveyor  
Bridge & Facility

Inspection Report - Cast-in-place Concrete  
 Location: Elevated slab at loading dock

	Satisfactory	Unsatisfactory	Not Completed	N/A	Additional Items:
Reinforcement Size	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Quantity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Placement	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Embed/Anchors	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lap Splices	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Reinf. Weld	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Hot Weather	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Cold Weather	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Notes: I reviewed reinforcement at the location noted above. Reinforcement conformed to project documents and ACI standards, with the exception of the following: Top reinforcement over grade beams "B1" had not yet been placed. Discussed with Project Superintendent Sean Boyles, it was agreed that reinforcement would be placed prior to pour.

Signed:  Date: 11/26/02  
 Daniel S. Burne, E.I.

WO 893

03300 Cast-in-Place Concrete  
03300.2 7/28-Day Compression Tests



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

2-1

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

CONCRETE COMPRESSION TEST  
ASTM C-39

Project: H. P. HOOD Job Number: 197  
Date Received: 09/21/2002  
Placement: FOOTING BETWEEN 2 EX TO 4 EX AND G TO F EX

Cylinders made by: DAC  
Date Delivered: 09/21/2002  
Date Made : 09/20/2002  
Design Strength 28 days (psi): 3000

Temperatures (F) Air: 74  
Concrete: 73  
Slump (in): 7.75  
Air (%): 6.6

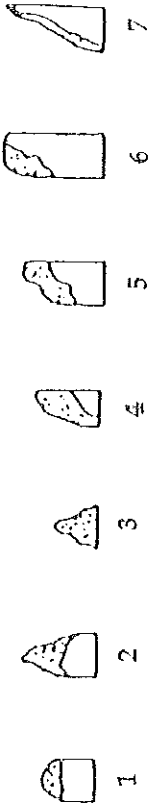
Client: CENTERLINE CONSTRUCTION

Supplier: AUBURN

Mixer #: 76  
Ticket #: 33784  
Load.#: 3  
Placement (cubic yards): 23 CY +/-  
Aggregate Size: 3/4"

Cylinder Designation	Date of Test	Age (days)	Type of Break	Load (kips)	strength (psi)
G197-1A	09/27/2002	7	6	72.0	2550
G197-1B	10/18/2002	28	6	128.0	4530
G197-1C	10/18/2002	28	6	120.0	4240

G197-1D / / 0 0.0 0



Remarks: Cylinder diameter is 6 inches unless otherwise noted.  
INITIAL SLUMP = 2.75 D19 SUPER ADDED TO MIX.

CONCRETE COMPRESSION TEST  
ASTM C-39

Project: H. P. HOOD Job Number: 197  
Date Received: 10/15/2002

Placement: FOOTING FEX-EEX

Cylinders made by: OTHER  
Date Delivered: 10/15/2002  
Date Made : 10/14/2002  
Design Strength 28 days (psi): 3000

Temperatures (F) Air: 50  
Concrete: 60  
Slump (in):  
Air (%):

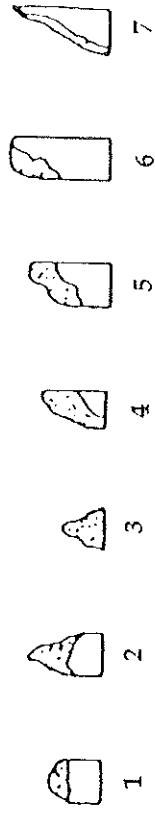
Client: CENTERLINE CONSTRUCTION

Supplier: AUBURN

Mixer #:  
Ticket #:  
Load #:

Placement (cubic yards):  
Aggregate Size: 3/4"

Cylinder Designation	Date of Test	Age (days)	Type of Break	Load (kips)	Strength (psi)
G197-2A	10/21/2002	7	6	67.0	2370
G197-2B	11/11/2002	28	6	105.0	3710
G197-2C	11/11/2002	28	6	108.0	3820
G197-2D	/ /	0		0.0	0



Remarks: Cylinder diameter is 6 inches unless otherwise noted.  
CYLINDERS NOT CAST BY SW COLE PERSONNEL. SUPER IN MIX.  
NO CURE BOX OVERNIGHT TEMPS 28 DEGREES +/-





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ASTM C-39

Project: H. P. HOOD Job Number: 197  
Placement: PC - 4B CARVEL BUILDING Date Received: 10/16/2002

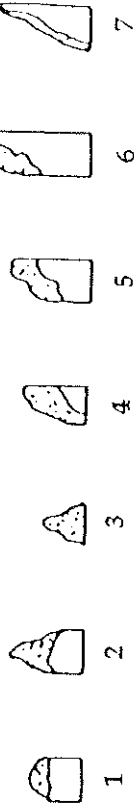
Cylinders made by: KBG Temperatures (F) Air: 46  
Date Delivered: 10/16/2002 Concrete: 56  
Date Made: 10/15/2002 Slump (in): 3  
Design Strength 28 days (psi): 3000 Air (%): 5.4

Client: CENTERLINE CONSTRUCTION Supplier: AUBURN

Mixer #: 71  
Ticket #: 40254  
Load. #: 1  
Placement (cubic yards): 8 CY +/-  
Aggregate Size: 3/4"

Cylinder Designation	Date of Test	Age (days)	Type of Break	Load (kips)	Strength (psi)
G197-3A	10/22/2002	7	7	70.0	2480
G197-3B	11/12/2002	28	2	120.0	4240
G197-3C	11/12/2002	28	7	118.0	4170

G197-3D / / 0 0.0 0



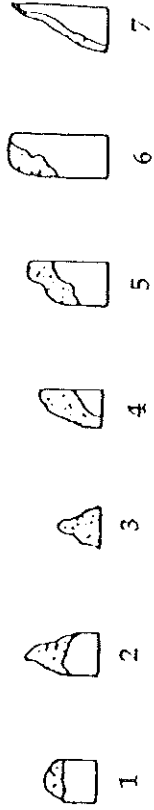
Remarks: Cylinder diameter is 6 inches unless otherwise noted.

Project: H. P. HOOD Job Number: 197  
Date Received: 10/18/2002  
Placement: GRADE WALLS BETWEEN E EXTERIOR AND F EXTERIOR

Cylinders made by: ARS  
Date Delivered: 10/18/2002  
Date Made : 10/17/2002  
Design Strength 28 days (psi): 3000  
Temperatures (F) Air: 62  
Concrete: 70  
Slump (in): 8.25  
Air (%): 5.0

Client: CENTERLINE CONSTRUCTION Supplier: AUBURN  
Mixer #: 76  
Ticket #: 40302  
Load.#: 2  
Placement (cubic yards): 24 CY +/-  
Aggregate Size: 3/4"

Cylinder Designation	Date of Test	Age (days)	Type of Break	Load (kips)	Strength (psi)
G197-4A	10/24/2002	7	6	60.0	2120
G197-4B	11/14/2002	28	7	103.0	3640
G197-4C	11/14/2002	28	7	99.0	3500
G197-4D	/ /	0		0.0	0



Remarks: Cylinder diameter is 6 inches unless otherwise noted.  
SUPER ADDED TO MIX.

Project: H P HOOD

Job Number: 197  
 Date Received: 10/23/2002

Placement: WALL LINE E EXT., FOOTING 1 EXT., 2 EXT., 2.1, B, C EXT.

Cylinders made by: DMR  
 Date Delivered: 10/23/2002  
 Date Made : 10/22/2002  
 Design Strength 28 days (psi): 3000

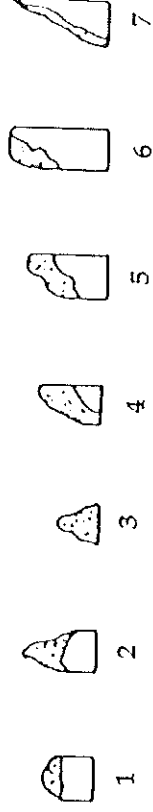
Temperatures (F) Air: 52  
 Concrete: 65  
 Slump (in): 4.0  
 Air (%): 6.0

Client: CENTERLINE CONSTRUCTION Supplier: AUBURN

Mixer #: 84  
 Ticket #: 40410  
 Load #: 2  
 Placement (cubic yards): 30 CY +/-  
 Aggregate Size: 3/4"

Cylinder Designation	Date of Test	Age (days)	Type of Break	Load (kips)	Strength (psi)
G197-5A	10/29/2002	7	6	59.0	2090
G197-5B	11/19/2002	28	7	105.0	3710
G197-5C	11/19/2002	28	7	112.0	3950

G197-5D / / 0 0.0 0



Remarks: Cylinder diameter is 6 inches unless otherwise noted.  
 MIDRANGE AND 1% POLARSET ADDED TO MIX.



2.6

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ASTM C-39

Project: H P HOOD Job Number: 197  
Date Received: 10/23/2002  
Placement: WALL LINE E EXT., FOOTING 1 EXT., 2 EXT., 2.1, B, C EXT.

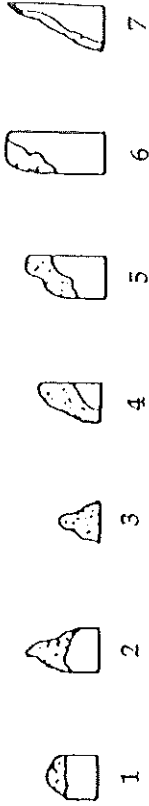
Cylinders made by: DMR Temperatures (F) Air: 52  
Date Delivered: 10/23/2002 Concrete: 65  
Date Made : 10/22/2002 Slump (in): 4.0  
Design Strength 28 days (psi): 3000 Air (%): 6.0

Client: CENTERLINE CONSTRUCTION Supplier: AUBURN

Mixer #: 84  
Ticket #: 40410  
Load #: 2  
Placement (cubic yards): 30 CY +/-  
Aggregate Size: 3/4"

Cylinder Designation	Date of Test	Age (days)	Type of Break	Load (kips)	Strength (psi)
G197-5A	10/29/2002	7	6	59.0	2090
G197-5B	11/19/2002	28	7	105.0	3710
G197-5C	11/19/2002	28	7	112.0	3960

G197-5D / / 0 0.0 0



Remarks: Cylinder diameter is 6 inches unless otherwise noted.  
MIDRANGE AND 1% POLARSET ADDED TO MIX.

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CONCRETE COMPRESSION TEST  
ASTM C-39

Project: H P HOOD Job Number: 197  
Placement: LOADING DOCK WALLS Date Received: 11/01/2002

Cylinders made by: DMR  
Date Delivered: 11/01/2002  
Date Made : 10/31/2002  
Design Strength 28 days (psi): 3000

Temperatures (F) Air: 49  
Concrete: 56  
Slump (in): 7  
Air (%): 4.6

Client: CENTERLINE CONSTRUCTION

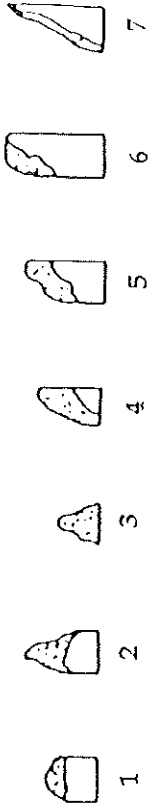
Supplier: AUBURN

Mixer #: 71  
Ticket #: 40623  
Load #: 2

Placement (cubic yards): 40 CY +/-  
Aggregate Size: 3/4"

Cylinder Designation	Date of Test	Age (days)	Type of Break	Load (kips)	Strength (psi)
G197-7A	11/07/2002	7	7	53.0	1870
G197-7B	11/28/2002	28	6	108.0	3620
G197-7C	11/28/2002	28	7	113.0	4000

G197-7D / / 0 0.0 0



Remarks: Cylinder diameter is 6 inches unless otherwise noted.  
INITIAL SLUMP = 3. SUPER & 1% POLARSET ADDED TO MIX.

Project: H. P. HOOD

Job Number: 197  
Date Received: 11/07/2002

Placement: PILE CAP FOR CONVEYOR BASE ADJACENT TO DISTRIBUTION BLDG.

Cylinders made by: DAC  
Date Delivered: 11/07/2002  
Date Made : 11/06/2002  
Design Strength 28 days (psi): 3000

Temperatures (F) Air: 40  
Concrete: 67  
Slump (in): 1.5  
Air (%): 5.0

Client: CENTERLINE CONSTRUCTION

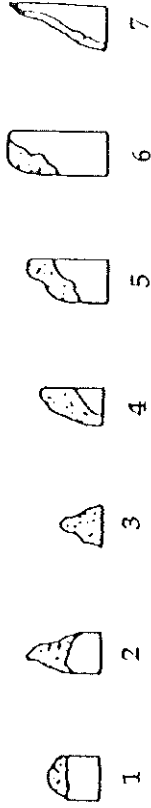
Supplier: AUBURN

Mixer #: \_\_\_\_\_  
Ticket #: 40741  
Load #: 4

Placement (cubic yards): 18 CY +/-  
Aggregate Size: 3/4"

Cylinder Designation	Date of Test	Age (days)	Type of Break	Load (kips)	Strength (psi)
G197-8A	11/13/2002	7	6	92.0	3250
G197-8B	12/04/2002	28	6	127.0	4490
G197-8C	12/04/2002	28	6	131.0	4630

G197-8D / / 0 0.0 0



Remarks: Cylinder diameter is 6 inches unless otherwise noted.  
1ST & 2ND LOADS REJECTED; 2% POLARSET & HOT H2O ADDED TO MIX



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2.01

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ASTM C-39

Project: H P HOOD Job Number: 197  
Placement: BLOWER BOTTLE SLAB Date Received: 11/10/2002

Cylinders made by: DMR  
Date Delivered: 11/10/2002  
Date Made : 11/07/2002  
Design Strength 28 days (psi): 5000

Temperatures (F) Air: 38  
Concrete: 64  
Slump (in): 7.25  
Air (%): 5.2

Client: CENTERLINE CONSTRUCTION

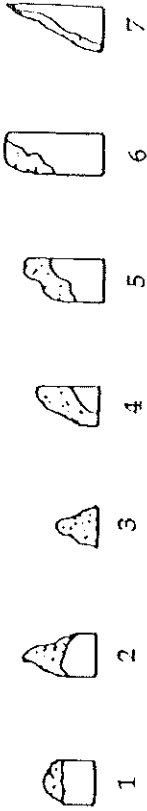
Supplier: AUBURN

Mixer #: 82  
Ticket #: 40744  
Load #: 2

Placement (cubic yards): 30 CY +/-  
Aggregate Size: 3/4"

Cylinder Designation	Date of Test	Age (days)	Type of Break	Load (kips)	Strength (psi)
G197-9A	11/14/2002	7	6	94.5	3340
G197-9B	12/05/2002	28	7	141.0	4990
G197-9C	12/05/2002	28	7	139.0	4920

G197-9C / / 0 0.0 0



Remarks: Cylinder diameter is 6 inches unless otherwise noted.  
MIDRANGE AND 3% POLARSET ADDED TO MIX.



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ENGINEERING, INC.

Z.10

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ASTM C-39

Project: H. P. HOOD Job Number: 197  
Date Received: 11/19/2002

Placement: ELEVATED DOCK LEVELER SLABS

Cylinders made by: DAC Temperatures (F) Air: 34  
Date Delivered: 11/19/2002 Concrete: 50  
Date Made : 11/18/2002 Slump (in): 3.75  
Design Strength 28 days (psi): 5000 Air (%): 4.3

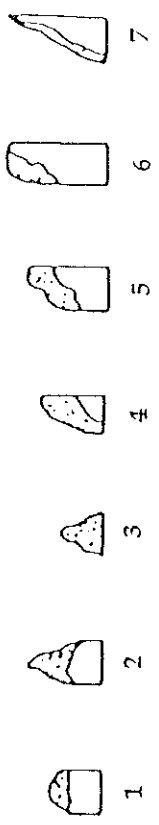
Client: CENTERLINE CONSTRUCTION Supplier: AUBURN

Mixer #: 83  
Ticket #: 42164  
Load #: 2  
Placement (cubic yards): 2.5 CY +/-  
Aggregate Size: 3/4"

Cylinder Designation	Date of Test	Age (days)	Type of Break	Load (kips)	Strength (psi)
G197-10A	11/25/2002	7	6	107.0	3780
G197-10B	12/16/2002	28	7	148.0	5230
G197-10C	12/16/2002	28	7	146.0	5160

G197-10D / / 0 0.0 0  
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Remarks: Cylinder diameter is 6 inches unless otherwise noted.  
2% POLARSET, DARACEM 65 MIDRANGE WATER REDUCER AND HOT H2O ADDED TO MIX; W/C RATIO = .373





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ASTM C-39

Project: H. P. HOOD Job Number: 197  
Date Received: 11/20/2002

Placement: B-1 AND B-2 LOADING DOCK WALLS

Cylinders made by: DMR  
Date Delivered: 11/20/2002  
Date Made : 11/19/2002  
Design Strength 28 days (psi): 5000  
Temperatures (F) Air: 49  
Concrete: 63  
Slump (in): 3  
Air (%): 6.3

Client: CENTERLINE CONSTRUCTION Supplier: AUBURN

Mixer #: 77  
Ticket #: 42185  
Load #: 1  
Placement (cubic yards): 5 CY +/-  
Aggregate Size: 3/4"

Cylinder Designation	Date of Test	Age (days)	Type of Break	Load (kips)	Strength (psi)
G197-11A	11/26/2002	7	6	117.0	4140
G197-11B	12/17/2002	28	7	156.0	5520
G197-11C	12/17/2002	28	7	150.0	5310

G197-11D / / 0 0.0 0



Remarks: Cylinder diameter is 6 inches unless otherwise noted.

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DEC 18 2002

GRAY, ME OFFICE  
286 Portland Road, Gray, ME 04039 • Tel (207) 657-2866 • Fax (207) 657-2840 • E-Mail info@gray@swcole.com • www.swcole.com  
Other offices in Bangor, Caribou, and Augusta, Maine & Somersworth, New Hampshire  
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CONCRETE COMPRESSION TEST  
ASTM C-39

Project: H. P. HOOD

Job Number: 197

Date Received: 11/26/2002

Placement: STAIRS

Cylinders made by: MJH

Temperatures (F) Air: 40  
Concrete: 58  
Slump (in): 3.25  
Air (%): 5.0

Date Delivered: 11/26/2002

Date Made : 11/25/2002

Design Strength 28 days (psi): 5000

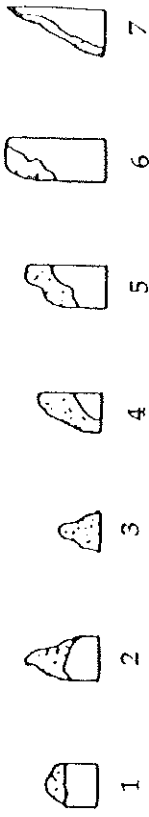
Client: CENTERLINE CONSTRUCTION

Supplier: AUBURN

Mixer #: 68  
Ticket #: 42294  
Load.#: 1

Placement (cubic yards): 6 CY +/-  
Aggregate Size: 3/4"

Cylinder Designation	Date of Test	Age (days)	Type of Break	Load (kips)	Strength (psi)
G197-12A	12/02/2002	7	5	55.0	1950
G197-12B	12/23/2002	28	7	58.0	2050
G197-12C	12/23/2002	28	6	62.0	2190
G197-12D	01/20/2003	56		0.0	0



Remarks: Cylinder diameter is 6 inches unless otherwise noted.

GRAY, ME OFFICE

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ENGINEERING, INC.

7.13

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CONCRETE COMPRESSION TEST  
ASTM C-39

Project: H. P. HOOD

Job Number: 197  
Date Received: 11/27/2002

Placement: LOADING DOCK AREA SUSPENDED SLAB & LARGE PAD AT FOOT OF CONCRETE STEPS

Cylinders made by: DAC

Date Delivered: 11/27/2002  
Date Made: 11/26/2002

Design Strength 28 days (psi): 5000

Temperatures (F) Air: 40  
Concrete: 77  
Slump (in): 3.5  
Air (%): 4.3

Client: CENTERLINE CONSTRUCTION

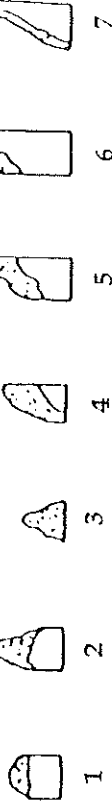
Supplier: AUBURN

Mixer #: 82  
Ticket #: 42330  
Load. #: 2

Placement (cubic yards): 14 CY +/-  
Aggregate Size: 3/4"

Cylinder Designation	Date of Test	Age (days)	Type of Break	Load (kips)	Strength (psi)
G197-13A	12/03/2002	7	6	101.0	3570
G197-13B	12/24/2002	28	6	144.0	5090
G197-13C	12/24/2002	28	7	146.0	5160

G197-13D / / 0 0.0 0

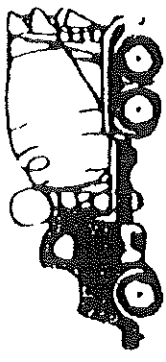


Remarks: Cylinder diameter is 6 inches unless otherwise noted.  
2% POLARSET AND HOT H2O ADDED TO MIX.

03300 Cast-in-Place Concrete

03300.3 Concrete Mixes/Certifications

# AUBURN CONCRETE



82 Goldthwait's Road • P.O. Box 1747 • Auburn, Maine 04210

83 Scotts Drive • Westbrook, Maine 04092

Phone: (207) 777-7100 • Fax: (207) 777-7777

Toll Free: (800) 750-0523 • Fax: (207) 750-5522

## H. P. HOOD

### Mix Design Submittal

3000 PSI

CEMENT	CF	
GRANCEM (GGBFS)	1.71	CIMENT QUEBEC
COARSE AGGREGATE	0.80	ST. LAWRENCE
	10.35	K&K EXCAVATION
FINE AGGREGATE	8.49	GORHAM S & G
WATER	4.14	PORTLAND W. D.
DARACEM 19		W.R. GRACE
DARACEM 65		W.R. GRACE
DAREX II (as required)		W.R. GRACE

WATER/CEMENT RATIO

0.54 Lbs

6 to 9 in

SLUMP (inches) - After Super

6 % +/- 1.5

AIR CONTENT (%)

27.1

## H. P. HOOD

### Mix Design Submittal

4000 PSI

CEMENT	CF	
GRANCEM (GGBFS)	2.01	CIMENT QUEBEC
COARSE AGGREGATE	0.93	ST. LAWRENCE
	10.35	K&K EXCAVATION
FINE AGGREGATE	8.45	GORHAM S & G
WATER	4.27	PORTLAND W. D.
DARACEM 19		W.R. GRACE
DARACEM 65		W.R. GRACE
DAREX II (as required)		W.R. GRACE

WATER/CEMENT RATIO

0.47 Lbs

6 to 9 in

SLUMP (inches) - After Super

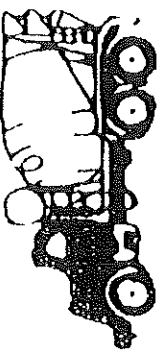
4 % +/- 1.5

AIR CONTENT (%)

1.08

[www.auburnconcrete.com](http://www.auburnconcrete.com)

# AUBURN CONCRETE



62 Goldthwaite Road • P.O. Box 1747 • Auburn, Maine 04210

93 Scott Drive • Westbrook, Maine 04092

Phone: (207) 777-7100 • Fax: (207) 777-7771

Phone: (207) 750-0523 • Fax: (207) 750-1582

## H. P. HOOD

### Mix Design Submittal

#### 4500 PSI

CEMENT	CF	
GRANCEM (GOBFS)	2.65	CIMENT QUEBEC
COARSE AGGREGATE	0.72	ST. LAWRENCE
	10.35	K&K EXCAVATION
FINE AGGREGATE	7.63	GORHAM S & G
WATER	4.14	PORTLAND W. D.
DARACEM 19		W.R. GRACE
DARACEM 65		W.R. GRACE
DAREX II (as required)		W.R. GRACE

27.1

WATER/CEMENT RATIO	0.40 Lbs
SLUMP (inches) - After Super	6 to 9 in
AIR CONTENT (%)	6 % +/- 1.5
	1.62

## H. P. HOOD

### Mix Design Submittal

#### 5000 PSI

CEMENT	CF	
GRANCEM (GOBFS)	2.87	CIMENT QUEBEC
COARSE AGGREGATE	0.78	ST. LAWRENCE
	10.35	K&K EXCAVATION
FINE AGGREGATE	7.23	GORHAM S & G
WATER	4.54	PORTLAND W. D.
DARACEM 19		W.R. GRACE
DARACEM 65		W.R. GRACE
DAREX II (as required)		W.R. GRACE

27.1

WATER/CEMENT RATIO	0.40 Lbs
SLUMP (inches) - After Super	6 to 9 in
AIR CONTENT (%)	5 % +/- 1.5
	1.35

**BARKER STEEL COMPANY, INC.**  
 55 Sumner Street  
 Milford, MA 01757  
 TEL 508 473-8484  
 FAX 508 473-8512

Shipped From: Canaan  
 BOL:049194-CAN  
 Ship Via: BARKER TRUCKING  
 Shipped Date: 09/18/2002  
 Order Description  
 FDN, CEX DOWN & TEX & 4EX  
 00001  
 Weight  
 14934 Lbs.

**CERTIFICATE OF COMPLIANCE**  
 Barker Contract#: 10008218  
 Project: H P Hood Bolite Conveyor  
 Sold To: CENTERLINE CONSTRUCTION INC  
 55 TODDBROOK ROAD  
 FREEPORT, ME 04032  
 Ship To:  
 349 Park Ave  
 Portland, ME

Size	Weight	Grade	Supplier	Heat	# Yield	Tensile	Elong% Bend	C	Min	P	S	Coater	Batch	Cnt#
3	159	60	Co Steel	P907384	64783	101019	15.8	OK	.26	1.15	.006	.023	C8252	
4	927	60	Co Steel	P907216	68322	102369	14.0	OK	.25	1.16	.009	.029	C8330	
4	927	60	Co Steel	P907259	70742	103387	14.0	OK	.29	1.13	.012	.033	C8230	
4	927	60	Co Steel	P907266	63306	101274	14.5	OK	.25	1.06	.016	.044	C8230	
4	927	60	Co Steel	P907385	61778	101197	17.5	OK	.27	1.20	.006	.027	C8252	
4	927	60	Co Steel	P907389	66565	100892	14.5	OK	.26	1.21	.010	.035	C8252	
4	927	60	Co Steel	P907568	72071	102584	14.5	OK	.26	1.07	.009	.038	C8252	
5	1038	60	AmeriSteel	C2-4379	68730	104100	13.5	OK	.40	.96	.010	.020	C8258	
5	1038	60	AmeriSteel	C2-4380	68010	99780	12.0	OK	.40	1.06	.010	.030	C8258	
5	1038	60	AmeriSteel	C2-4381	66630	99530	13.5	OK	.39	.96	.010	.030	C8258	
5	1038	60	AmeriSteel	C2-4394	68020	99590	13.5	OK	.39	1.00	.010	.030	C8258	
5	1038	60	AmeriSteel	C2-4395	65800	95840	15.0	OK	.38	1.04	.010	.030	C8258	
6	174	60	Co Steel	N32283	63313	100060	14.0	OK	.41	1.04	.008	.043	C8257	
6	174	60	Co Steel	N32284	64476	104883	13.0	OK	.43	1.03	.005	.031	C8257	
6	174	60	Co Steel	N32285	63197	102945	14.0	OK	.41	1.08	.006	.031	C8257	
6	174	60	Co Steel	N32286	65494	105376	13.0	OK	.42	1.05	.007	.037	C8257	
8	1662	60	NucorSteel	P2109	62680	96300	12.8	OK	.40	1.08	.015	.058	C8255	
8	1662	60	NucorSteel	P2111	67670	102440	13.8	OK	.40	1.06	.013	.056	C8255	

BARKER STEEL certifies that the above material conforms to all current, published and specifications. We certify that the manufacturing process for this steel has occurred in the United States.

BY *Martin E. Warko*

MAR-12-03 10:03 FROM: BARKER SHEET CAMPAIN

W  
 N

**BARKER STEEL COMPANY, INC.**  
 55 Summer Street  
 Milford, MA 01757  
 TEL 508 473-8484  
 FAX 508 473-8512

Shipped From: Canaan  
 Shipped Date: 10/04/2002  
 BOL:049923-CAN  
 Ship Via: BARKER TRUCKING  
 Order Description  
 00003F FDN, LOADING DOCK AREA  
 Weight  
 3530 Lbs.

**CERTIFICATE OF COMPLIANCE**  
 Barker Contract#: 10008218  
 Project: H P Hood Bottle Conveyor  
 Sold To: CENTERLINE CONSTRUCTION INC  
 55 TODDBROOK ROAD  
 FREEPORT, ME 04032  
 Ship To:  
 349 Park Ave  
 Portland, ME

Size	Weight	Grade	Supplier	Heat	#Yield	Tensile	Elong% Bend	C	Min	P	S	Coater	Batch	Ch#
3	100	60	NucorSteel	N31787	68114	109130	13.0	OK	.40	1.02	.003	.029		C8214
3	100	60	NucorSteel	N31787	68114	109130	13.0	OK	.39	1.00	.002	.025		C8214
4	618	60	Co Steel	P907371	64146	99262	16.3	OK	.27	1.11	.011	.040		C8282
4	618	60	Co Steel	P907387	64757	100077	15.0	OK	.27	1.17	.010	.032		C8282
4	618	60	NucorSteel	P4886	67320	100700	13.8	OK	.43	1.12	.011	.051		C8271
4	618	60	NucorSteel	P4887	68430	98860	12.5	OK	.42	1.13	.011	.059		C8271
5	305	60	NucorSteel	P5819	69900	95300	16.3	OK	.41	1.17	.020	.052		C8291
5	305	60	NucorSteel	P5821	69800	98400	15.0	OK	.44	1.18	.015	.063		C8291
6	42	60	AmeriSteel	K2-3610	83636	102727	15.0	OK	.25	.82	.012	.040		C8289
6	42	60	AmeriSteel	K2-3611	81136	99318	13.0	OK	.28	.86	.020	.065		C8289
6	42	60	AmeriSteel	K2-4697	81136	99318	13.0	OK	.26	.86	.020	.065		C8289
6	42	60	NucorSteel	P4370	65300	107220	13.8	OK	.45	1.10	.008	.050		C8276
6	42	60	NucorSteel	P4376	64290	104270	12.5	OK	.41	1.13	.013	.059		C8276
6	42	60	NucorSteel	P4377	62190	99080	13.8	OK	.41	1.12	.013	.065		C8276

BARKER STEEL certifies that the above material conforms to all applicable specifications. We warrant that all manufacturing processes for this steel have occurred in the United States.

BY *M. J. E. Wolf*



04200 Reinforced Masonry  
04200.1 Reinforced Masonry Inspection  
Reports

# BECKER

structural engineers

Date: October 21, 2002  
 Time: 9:00am  
 Temp: low 60's  
 Weather: Cloudy

Project: H.P. Hood Bottle Conveyor  
Bridge & Facility

Inspection Report - Masonry

Location: Masonry at wall "E4"- "D4"  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Satisfactory	Satisfactory	Reinforcement Size	Satisfactory	Satisfactory	CMU Size	Not Completed	N/A
x	x	Quantity	x	x	Layout/Fitup		
x	x	Condition			Mortar/Grouting Procedures		
x	x	Placement			Lift Heights		
x	x	Embed/Anchors	x		Cleanouts	x	
		Lap Splice	x		Bond Beams	x	
		Reinf. Weld	x		Plumbness		
		Hot Weather	x				
		Cold Weather	x				

Notes: Reviewed masonry at location noted. All conformed to project documents. Reinforcement at wall below was previously reviewed at time of wall installation.  
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 \_\_\_\_\_  
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 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Signed:  Date: 10/21/02  
 Daniel S. Burne, E.I.

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