

# **Final Report of Special Inspections**

## **Martin's Point Health Care Medical Office Building**

Portland, Maine

August 13, 2010

Prepared By:

Matthew J .Miller, P.E.  
Structural Engineering Consultant  
23 Thornbury Way  
Windham, ME 04062

**Project No. 09012**

# **Final Report of Special Inspections**

## **Martin's Point Health Care**

### **Medical Office Building**

Portland, Maine

#### **Owner:**

Martin's Point Health Care  
PO Box 9746  
Portland, ME 04104

#### **Owner's Representative**

CB Richard Ellis / Boulos Property Management  
One Canal Plaza  
Portland, ME 04101

#### **Architect of Record:**

SMRT  
144 Fore Street  
PO Box 618  
Portland, ME 04104

#### **Structural Engineer of Record:**

SMRT  
144 Fore Street  
PO Box 618  
Portland, ME 04104

#### **Contractor**

Pizzagalli Construction Company  
131 Presumpscot Street  
Portland, ME 04103

#### **Special Inspector:**

Matthew J. Miller, P.E.  
Structural Engineering Consultant  
23 Thornbury Way  
Windham, ME 04062

#### **Testing Agency**

S.W. Cole Engineering, Inc.  
286 Portland Road  
Gray, ME 04039

#### **Testing Agency**

Quality Assurance Labs, Inc.  
80 Pleasant Ave.  
S. Portland, ME 04106

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**Tab 1**

# Final Report of Special Inspections

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Project: *Martin's Point Health Care Medical Office Building*

Location: *Portland, Maine*

Owner: *Martin's Point Health Care*

Owner's Address: *PO Box 9746  
Portland, ME 04104*

Architect of Record: *SMRT*

Structural Engineer of Record: *Janusz Wszola  
SMRT*

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

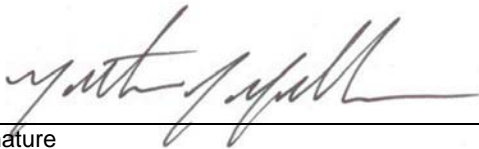
Comments: *None*

*(Attach continuation sheets if required to complete the description of corrections.)*

Interim reports submitted prior to this final report form a basis for and are to be considered an integral part of this final report.

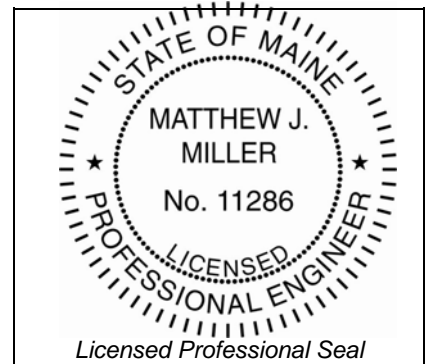
Respectfully submitted,  
Special Inspector

*Matthew J. Miller*  
\_\_\_\_\_  
(Type or print name)



Signature

08/13/10  
Date



**Tab 2**

# Final Report of Special Inspections

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Agent's Final Report

Project: Martin's Point Health Care Medical Office Building

Agent: S.W. Cole Engineering, Inc.

Special Inspector: Matt Miller, P.E.

To the best of my information, knowledge and belief, the Special Inspections or testing required for this project, and designated for this Agent in the Statement of Special Inspections submitted for permit, have been performed and all discovered discrepancies have been reported and resolved other than the following:

Comments: Special Inspections and testing performed by S.W. Cole Engineering, Inc., included soils, concrete and masonry as shown in the SI Schedule developed by SMRT (project SER) and as scheduled and coordinated by Pizzagalli (project construction manager).

(Attach continuation sheets if required to complete the description of corrections.)

Interim reports submitted prior to this final report form a basis for and are to be considered an integral part of this final report.

Respectfully submitted,  
Agent of the Special Inspector

Roger E. Domingo  
\_\_\_\_\_  
(Type or print name)



7/27/2010

Signature

Date

Licensed Professional Seal or  
Certification

# Final Report of Special Inspections

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## Agent's Final Report

Project: *Martins Point*

Agent: *Quality Assurance Laboratories Inc.*

Special Inspector: *Michael Drew*

To the best of my information, knowledge and belief, the Special Inspections or testing required for this project, and designated for this Agent in the *Statement of Special Inspections* submitted for permit, have been performed and all discovered discrepancies have been reported and resolved other than the following:

Comments:

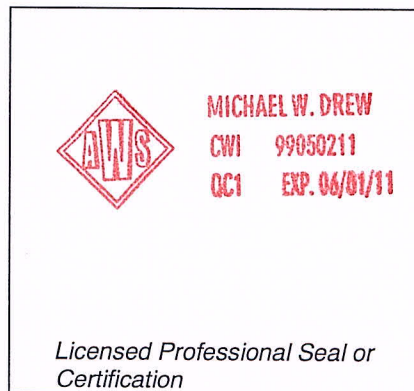
*(Attach continuation sheets if required to complete the description of corrections.)*

Interim reports submitted prior to this final report form a basis for and are to be considered an integral part of this final report.

Respectfully submitted,  
Agent of the Special Inspector

*MICHAEL W. DREW*  
(Type or print name)

*Michael W. Drew* \_\_\_\_\_  
Signature Date





**Tab 3**

# STATEMENT OF SPECIAL INSPECTIONS

<b>PROJECT:</b>	Martin's Point Health Care Medical Office Building
<b>LOCATION:</b>	Portland, Maine
<b>PERMIT APPLICANT:</b>	
<b>APPLICANT'S ADDRESS:</b>	

**Structural Engineer of Record:**

Janusz S. Wszola, P.E.

**SMRT, Inc.**

Name

Firm

**Architect of Record:**

Scott L. Benson, AIA

**SMRT, Inc.**

Name

Firm

This Statement of Special Inspections is submitted in accordance with Section 1704 of the 2003 International Building Code. It includes a "Schedule of Special Inspections" and a "Special Inspections List of Agents" specific to this project. The Special Inspector is identified in the "List of Agents."

The Special Inspector shall keep records of all inspections listed herein, and shall furnish inspection reports to the Code Official and to the Structural Engineer of Record. All discrepancies will be brought to the immediate attention of the Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the Structural Engineer of Record and Code Official. Interim reports shall be submitted to the Structural Engineer of Record and the Code Official.

Job site safety is solely the responsibility of the Contractor. Materials and activities to be inspected are not to include the Contractor's equipment and methods used to erect and install the materials listed.

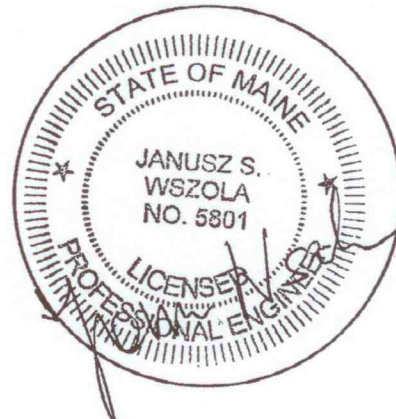
Prepared by: *(Structural Engineer of Record)*

Janusz S. Wszola, PE

(Name)

*Janusz Wszola*  
 (Signature)

(Date) 4/17/09



## **SPECIAL INSPECTIONS - LIST OF AGENTS**

PROJECT: Martin's Point Health Care Medical Office Building

LOCATION: Portland, Maine

### STRUCTURAL ENGINEER OF RECORD:

Name

Janusz S. Wszola, P.E.

Firm

SMRT, Inc.  
144 Fore Street, P.O. Box 618,  
Portland, Maine 04104

### ARCHITECT OF RECORD:

Name

Scott L. Benson, AIA

Firm

SMRT, Inc.  
144 Fore Street, P.O. Box 618,  
Portland, Maine 04104

Following is the list of Agents selected for performance of Special Inspections for this project.

	Type	Firm	Address, Telephone, Email
1.	Special Inspector(P.E.) <i>-Inspection coordinator</i>	TBD by Owner	
2.	Special Inspection, Agent -1 Soils	TBD by Owner	
3.	Special Inspection, Agent-2 Concrete Construction	TBD by Owner	
4.	Special Inspection, Agent-3 Steel Construction, Steel Joists, Steel Stairs	TBD by Owner	
5.	Special Inspection, Agent-4 Masonry Construction	TBD by Owner	

**Schedule of Special Inspection Services – IBC 2003**  
**SOILS**

VERIFICATION AND INSPECTION	Y/N	EXTENT: CONTINUOUS, PERIODIC, OR SUBMITTAL	COMMENTS	REFERENCE FOR CRITERIA	AGENT	TASK COMPLETED
IBC Section 1704.7						
1. Verify existing soil conditions, fill placement and load bearing requirements for compliance with the geotechnical report and the contract documents.						
a. Verify materials below footings are adequate to achieve the design bearing capacity.	Y	P		IBC 1704.7		
b. Verify excavations are extended to proper depth and have reached proper material.	Y	P		IBC 1704.7		
c. Perform classification and testing of controlled fill materials.	Y	P		IBC 1704.7		
d. Verify use of proper materials, densities and lift thicknesses during placement and compaction of controlled fill.	Y	C		IBC 1704.7		
e. Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly.	Y	P		IBC 1704.7	S. W. COLE	SEE SOILS INSPECTION REPORTS

**Schedule of Special Inspection Services – IBC 2003**  
**FABRICATION AND IMPLEMENTATION PROCEDURES – PRECAST CONCRETE**

VERIFICATION AND INSPECTION IBC Section 1704.2	Y/N	EXTENT: CONTINUOUS, PERIODIC, OR SUBMITTAL	COMMENTS	REFERENCE FOR CRITERIA	AGENT	TASK COMPLETED
1. Fabrications Procedures: Review of fabricator's written procedural and quality control manuals and periodic auditing of fabrication practices by an approved special inspection agency. At the completion of fabrication, the approved fabricator shall submit a certificate of compliance to the building code official stating that the work was performed in accordance with the approved construction documents. -OR- 2. PCI Plant Certification Program: Fabricator shall currently be certified for the specified category by the PCI. Submit copy of certificate.	Y	S	Fabricator shall submit one of the two qualifications		M. MILLER	✓
3. At completion of fabrication, the approved fabricator shall submit a certificate of compliance to the building code official stating that the work was performed in accordance with the approved construction documents	Y	S		IBC 1704.2.2	M. MILLER	✓

**Schedule of Special Inspection Services – IBC 2003**  
**FABRICATION AND IMPLEMENTATION PROCEDURES – STRUCTURAL STEEL**

VERIFICATION AND INSPECTION IBC Section 1704.2	Y/N	EXTENT: CONTINUOUS, PERIODIC, OR SUBMITTAL	COMMENTS	REFERENCE FOR CRITERIA	AGENT	TASK COMPLETED
1. Fabrications Procedures: Review of fabricator's written procedural and quality control manuals and periodic auditing of fabrication practices by an approved special inspection agency. At the completion of fabrication, the approved fabricator shall submit a certificate of compliance to the building code official stating that the work was performed in accordance with the approved construction documents. -OR- 2. AISC Certification. . Submit copy of certificate.	Y	S	Fabricator shall submit one of the two qualifications		M. MILLER	✓
3. At completion of fabrication, the approved fabricator shall submit a certificate of compliance to the building code official stating that the work was performed in accordance with the approved construction documents.	Y	S		IBC 1704.2.2	M. MILLER	✓

**Schedule of Special Inspection Services – IBC 2003**  
**FABRICATION AND IMPLEMENTATION PROCEDURES – STEEL STAIRS & GUARDRAIL**

VERIFICATION AND INSPECTION IBC Section 1704.2	Y/N	EXTENT: CONTINUOUS, PERIODIC, OR SUBMITTAL	COMMENTS	REFERENCE FOR CRITERIA	AGENT	TASK COMPLETED
1. Fabrications Procedures: Review of fabricator's written procedural and quality control manuals and periodic auditing of fabrication practices by an approved special inspection agency. At the completion of fabrication, the approved fabricator shall submit a certificate of compliance to the building code official stating that the work was performed in accordance with the approved construction documents. -OR- 2. AISC Certification. . Submit copy of certificate.	Y	S	Fabricator shall submit one of the two qualifications		M. MILLER	✓
3. At completion of fabrication, the approved fabricator shall submit a certificate of compliance to the building code official stating that the work was performed in accordance with the approved construction documents.	Y	S		IBC 1704.2.2	M. MILLER	✓

**Schedule of Special Inspection Services – IBC 2003**  
**FABRICATION AND IMPLEMENTATION PROCEDURES – STEEL JOISTS**

VERIFICATION AND INSPECTION IBC Section 1704.2	Y/N	EXTENT: CONTINUOUS, PERIODIC, OR SUBMITTAL	COMMENTS	REFERENCE FOR CRITERIA	AGENT	TASK COMPLETED
1. Fabrications Procedures: Review of fabricator's written procedural and quality control manuals and periodic auditing of fabrication practices by an approved special inspection agency. At the completion of fabrication, the approved fabricator shall submit a certificate of compliance to the building code official stating that the work was performed in accordance with the approved construction documents. -OR- 2. SJI Certification. . Submit copy of certificate.	Y	S	Fabricator shall submit one of the two qualifications		M. MILLER	✓
3. At completion of fabrication, the approved fabricator shall submit a certificate of compliance to the building code official stating that the work was performed in accordance with the approved construction documents.	Y	S		IBC 1704.2.2	M. MILLER	✓

### Schedule of Special Inspections – IBC 2003

#### STEEL CONSTRUCTION

(This section includes Structural Steel, Steel Joists, & Steel Stairs)

VERIFICATION AND INSPECTION	Y/N	EXTENT: CONTINUOUS, PERIODIC, OR SUBMITTAL	COMMENTS	REFERENCE FOR CRITERIA	AGENT	TASK COMPLETED
<b>IBC Section 1704.3</b>						
<b>1. Material verification of high-strength bolts, nuts and washers:</b>						
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	Y	P		Applicable ASTM material specifications; AISC 360, Section A3.3	QAL	
b. Manufacturer's certificate of compliance required.	Y	S			M. MILLER	✓
<b>2. Inspection of high-strength bolting</b>						
a. Bearing-type connections.	Y	P		AISC 360 Section M2.5	QAL	
b. Slip-critical connections.	N			IBC Sect 1704.3.3		n/a
<b>3. Material verification of structural steel:</b>						
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	Y	P		ASTM A 6 or ASTM A 568 IBC Sect 1708.4	M. MILLER	✓
b. Manufacturers' certified mill test reports.	Y	S		ASTM A 6 or ASTM A 568 IBC Sect 1708.4	M. MILLER	✓
<b>4. Material verification of weld filler materials:</b>						
a. Identification markings to conform to AWS specification in the approved construction documents.	Y	S		AISC 360, Section A3.5	QAL M. MILLER	✓
b. Manufacturer's certificate of compliance required.	Y	S			M. MILLER	✓
5. Submit current AWS D1.1 welder certificate for all field welders who will be welding on this project.	Y	S		AWS D1.1	M. MILLER	✓
<b>6. Inspection of welding:</b>						
<b>a. Structural steel:</b>						
1) Complete and partial penetration groove welds.	Y	C		IBC 1704.3.1 AWS D1.1	↑ QAL	
2) Multipass fillet welds.	Y	C				
3) Single-pass fillet welds > 5/16"	Y	C				
4) Single-pass fillet welds < 5/16"	Y	P				
5) Floor deck shear studs	Y	P		AWS D1.3	↓	
6) Floor and roof deck welds	Y	P				
<b>b. Reinforcing steel:</b>						
1) Verification of weldability of reinforcing steel other than ASTM A706.	Y	C		IBC Sect 1903.5.2 AWS D1.4 ACI 318: 3.5.2	NO WELDING OF REINFORCING WAS DONE	
2) Reinforcing steel-resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special reinforced concrete shear walls and shear reinforcement.	Y	C				
3) Shear reinforcement.	Y	C				
4) Other reinforcing steel.	Y	P				

**Schedule of Special Inspections – IBC 2003**  
**STEEL CONSTRUCTION (Continued)**

VERIFICATION AND INSPECTION	Y/N	EXTENT: CONTINUOUS, PERIODIC, OR SUBMITTAL	COMMENTS	REFERENCE FOR CRITERIA	AGENT	TASK COMPLETED
IBC Section 1704.3						
7. Inspection of steel frame joint details for compliance with approved construction documents:						
a. Details such as bracing and stiffening.	Y	P		IBC 1704.3.2	↑	✓
b. Member locations.	Y	P			M. MILLER	✓
c. Application of joint details at each connection.	Y	P			↓	✓
d. Floor deck shear studs locations.	Y	P				✓



**Schedule of Special Inspections – IBC 2003**  
**CONCRETE CONSTRUCTION**

VERIFICATION AND INSPECTION	Y/N	EXTENT: CONTINUOUS, PERIODIC, OR SUBMITTAL	COMMENTS	REFERENCE FOR CRITERIA	AGENT	TASK COMPLETED
IBC Section 1704.4						
1. Inspection of reinforcing steel, including placement.	Y	P		ACI 318: 3.5, 7.1-7.7	↑	INSPECTION
2. Inspection of reinforcing steel welding in accordance with Steel Construction, Item 6b.	Y		Refer to Steel Construction, Item 6b		↑	INSPECTION
3. Inspect bolts to be installed in concrete prior to and during placement of concrete.	Y	C				
4. Verifying use of required design mix	Y	P		ACI 318: Ch 4, 5.2-5.4	S.W. CEVE	CONCRETE REPORTS
5. At time fresh concrete is sampled to fabricate specimens for strength test, perform slump and air content test and temperature.	Y	C		ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	S.W. CEVE	CONCRETE REPORTS
6. Inspection of concrete placement for proper application techniques	Y	C		ACI 318: 5.9, 5.10	↓	SEE
7. Inspection for maintenance of specified curing temperature and techniques	Y	P		ACI 318: 5.11-5.13	↓	SEE
8. Erection of precast concrete members:						
a. Verify all member sizes, piece marks and connection details for compliance with approved erection drawings.	Y	P		ACI 318: Ch 16		
b. Inspect all field bolted and field welded connections.	Y	P				
c. Verify certification documentation for all welders.	Y	P				

**Schedule of Special Inspections – IBC 2003**  
**MASONRY CONSTRUCTION – LEVEL 1 (NON-ESSENTIAL FACILITY)**

VERIFICATION AND INSPECTION IBC Section 1704.5	Y/N	EXTENT: CONTINUOUS, PERIODIC, OR SUBMITTAL	COMMENTS	REFERENCE FOR CRITERIA	AGENT	TASK COMPLETED
1. As masonry construction begins, the following shall be verified to ensure compliance:						
a. Proportions of site-prepared mortar.	Y	P		ACI530.1, 2.6A	↑	↑
b. Construction of mortar joints.	Y	P		ACI530.1, 3.3B		
c. Location of reinforcement and connectors.	Y	P		ACI530.1, 3.4, 3.6A		
2. The inspection program shall verify:						
a. Size and location of structural elements.	Y	P		ACI530.1, 3.3G		
b. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction.	Y	P		ACI530, 1.2.2(e), 2.1.4, 3.1.6		
c. Specified size, grade and type of reinforcement.	Y	P		ACI530, 1.1.3; ACI530.1, 2.4, 3.4		
d. Welding of reinforcing bars.	N	C	Not allowed	ACS30, 2.1.10.7.2, 3.3.3.4 (b)		N/A
e. Protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F).	Y	P		IBC 2104.3, 2104.4; ACI530.1, 1.8C, 1.8D		
3. Prior to grouting, the following shall be verified to ensure compliance:						
a. Grout space is clean.	Y	P		ACI530.1, 3.2D		
b. Placement of reinforcement and connectors and prestressing tendons and anchorages.	Y	P		ACI530, 1.1.3, ACI530.1, 3.4		
c. Proportions of site-prepared grout and prestressing grout for bonded tendons.	Y	P		ACI530.1, 2.6B		
d. Construction of mortar joints.	Y	P		ACI530.1, 3.3B		
4. Grout placement shall be verified to ensure compliance with code and construction document provisions.	Y	C		ACI530.1, 3.5		
5. Preparation of any required grout specimens, mortar specimens and/or prisms shall be observed.	Y	C		IBC 2105.2.2, 2105.3; ACI530.1, 1.4		
6. Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified.	Y	P		ACI530.1, 1.5		

S.W. COVE

SEE MASONRY FIELD REPORTS

**Tab 4**

**MATTHEW J. MILLER, P.E.**  
STRUCTURAL ENGINEERING CONSULTANT  
23 THORNBURY WAY  
WINDHAM, ME 04062  
207.232.2258

**SPECIAL INSPECTIONS  
NON-CONFORMANCE  
REPORT**

**Report No. NC-001**

Date: September 3, 2009  
To: Scott Benson  
SMRT  
144 Fore Street  
Portland, ME 04104  
From: Matthew J. Miller, P.E.  
Project: Martin's Point MOB Special Inspections  
Project No: 09012

**DESCRIPTION OF NON-CONFORMANCE:**

Refer to Field Report 3-001 attached: Along Line D where additional #9 bars were added to increase the splice length, the clear spacing at isolated locations were not in conformance with ACI 318 for minimum spacing between spliced bar groups (See photo attached to Report 03-001). The majority of the bars were in general conformance.

**STRUCTURAL ENGINEER OF RECORD (S.E.R.) RESPONSE:** (Provide attachment(s) as required)

See attached copy of e-mail correspondence with PCC for the required reinforcement modifications.

S.E.R. Signature: James Wszolek Date: 09/08/2009

Is re-inspection by Special Inspector required?

Yes  No

**CONTRACTOR VERIFICATION:** (To be completed by either the General Contractor or sub-contractor responsible for portion of work in non-conformance and returned to the Special Inspector and Structural Engineer of Record)

I verify, that as of the date listed below, that the non-conforming item(s) noted above has (have) been corrected as required.

Date Completed: Sept. 8<sup>th</sup> 2009 By: [Signature]  
(Signed)  
TIM STREET  
(Print name)  
Pizzajali Construction  
(Company)

See Attached E-mail from SMRT.

**Janusz Wszola**

---

**From:** Scott Benson  
**Sent:** Tuesday, September 08, 2009 4:31 PM  
**To:** 'Ballard, Jared'; 'Bertolini, Garret'; 'Street, Tim'  
**Cc:** Laurie Warhol; Mark Estabrook; Janusz Wszola  
**Subject:** FW: MPHC - rebar problems

Hi Tim: Please reference Janusz's e-mail below for clarifications. Please also note that a follow-up inspection is required prior to pouring. Regards, Scott

-----Original Message-----

**From:** Janusz Wszola  
**Sent:** Tuesday, September 08, 2009 4:25 PM  
**To:** Scott Benson  
**Subject:** RE: MPHC - rebar problems

Scott,

Please see my comments below.

Janusz

---

**From:** Street, Tim [mailto:tstreet@pizzagalli.com]  
**Sent:** Tuesday, September 08, 2009 3:52 PM  
**To:** Scott Benson; Ballard, Jared; Bertolini, Garret  
**Cc:** Laurie Warhol; Janusz Wszola  
**Subject:** RE: MPHC

Scott -

Item #1. Per my discussion with Janusz today, we understand the issue is that we cannot have more than 3 #8's clustered together. We need to maintain 1" between the clusters of 3 bars (2 coming out of the top of the wall and the 1 vertical wall bar). We will move the vertical wall bars to the other side of the splice bars to gain spacing between clusters. - Confirmed.

Item #2: At the beam pockets we will remove the extra 3 bars to gain the spacing. In 2 locations where the beam pocket forms are in, we will cut the lower pieces of these 3 bars and leave the upper pieces in the wall. - My understanding, based on telephone info from Tim, is that more than 3 bars (required per Detail J16/SF501) where installed under the beam pockets. If that is correct, the excess bars may be removed. Make sure that NONE of the typical wall bars located at the exterior wall face, #8 at 10" o.c., are removed.

I believe this will address the spacing issue raised by Matt. We will proceed with this remedy unless I hear from you. I have attached 2 pictures for Janusz to look at. I hope they will help.

Regards,

Timothy J Street

9/8/2009

**MATTHEW J. MILLER, P.E.**  
STRUCTURAL ENGINEERING CONSULTANT  
23 THORNBURY WAY  
WINDHAM, ME 04062  
207.232.2258

**SPECIAL INSPECTIONS  
NON-CONFORMANCE  
REPORT**

**Report No. NC-002**

Date: September 22, 2009  
To: Scott Benson  
SMRT  
144 Fore Street  
Portland, ME 04104  
From: Matthew J. Miller, P.E.  
Project: Martin's Point MOB Special Inspections  
Project No: 09012

**DESCRIPTION OF NON-CONFORMANCE:**

Refer to Field Report 3-002 attached: Twp items were noted.

1. A discrepancy exists between the Construction Drawings and the approved shop drawings for the detailing of reinforcing around the beam pockets at line D. Detail J16/8G50 calls out (3) #5's horizontal each face below the pocket. The approved shop drawings indicate that these horizontal bars are on the inside face only. The reinforcing was installed in accordance with the shop drawings. EOR verify the reinforcing detail around the beam pocket.
2. The masonry dowels which extend out of the top of the concrete foundation wall along Line A from Line 2 to Line 5 were installed at 32" oc. In accordance with detail J5/SB504 the masonry wall is a 12" wall. In accordance with A7/SF506 the 12" CMU is to be reinforced with #6 at 16" oc, therefore the spacing of the dowels does not match the spacing of the masonry wall vertical steel.

SFS01

**STRUCTURAL ENGINEER OF RECORD (S.E.R.) RESPONSE:** (Provide attachment(s) as required)

1. The installation is acceptable with three #5 bars located at the interior face as described on J16/SF501.
2. Dowels to masonry shall match vertical masonry reinforcement. The contractor shall execute the installation of dowels as described by SI#25.

S.E.R.  
Signature:

*Michael A. Cunningham*

Date:

9/23/09

Is re-inspection by Special Inspector required?

Yes

No

Yes. Inspect dowel layout, and inspect the installation of injection adhesive for masonry dowels.

**CONTRACTOR VERIFICATION:** (To be completed by either the General Contractor or sub-contractor responsible for portion of work in non-conformance and returned to the Special Inspector and Structural Engineer of Record)

I verify, that as of the date listed below, that the non-conforming item(s) noted above has (have) been corrected as required.

Date Completed: 9-23-09

By:   
(Signed)

Tom Street  
(Print name)

P. Zzagalli Construction Company  
(Company)

*please see Attached  
SMAR Response.*

**MATTHEW J. MILLER, P.E.**

STRUCTURAL ENGINEERING CONSULTANT  
23 THORNBURY WAY  
WINDHAM, ME 04062  
207.232.2258

**SPECIAL INSPECTIONS  
NON-CONFORMANCE  
REPORT**

**Report No. NC-003**

Date: November 20, 2009  
To: Scott Benson  
SMRT  
144 Fore Street  
Portland, ME 04104  
From: Matthew J. Miller, P.E.  
Project: Martin's Point MOB Special Inspections  
Project No: 09012

**DESCRIPTION OF NON-CONFORMANCE:**

Refer to Field Report 5-002 attached: Item #16.

- 1. Angle Bracing between W21x44 on Line 8.4 and the adjacent W21x44 to the East of Line 8.4 between lines A and B were installed opposite than is indicated on Section E16c/SF504. The note on the section reads "Req'd @ 16c only L4x4x3/8 brace at 6'-0" oc max (7 plcs) full length of beam) The arrow from the note points to the brace that runs from the top flange of the beam at Line 8.4 to the bottom flange of the adjacent beam.

The angle braces in the as built condition were installed from the bottom flange of the W21 on Line 8.4 to the top flange of the adjacent beam.

**STRUCTURAL ENGINEER OF RECORD (S.E.R.) RESPONSE:** (Provide attachment(s) as required)

S.E.R. Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Is re-inspection by Special Inspector required?

Yes  No

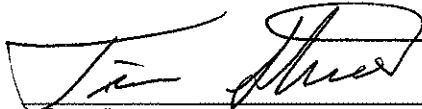


**CONTRACTOR VERIFICATION:** (To be completed by either the General Contractor or sub-contractor responsible for portion of work in non-conformance and returned to the Special Inspector and Structural Engineer of Record)

I verify, that as of the date listed below, that the non-conforming item(s) noted above has (have) been corrected as required.

Date Completed: \_\_\_\_\_

By:

  
\_\_\_\_\_  
(Signed)

*Tim Street*  
\_\_\_\_\_  
(Print name)

\_\_\_\_\_  
(Company)

*No Action Required per SMT  
Response*

## **Ballard, Jared**

---

**From:** Scott Benson [SBenson@SMRTInc.com]  
**Sent:** Monday, November 23, 2009 10:53 AM  
**To:** Ballard, Jared; Bertolini, Garret; Roger Domingo; Street, Tim  
**Cc:** Laurie Warhol; Ureneck, Paul  
**Subject:** FW: Martin's Point Special Inspections - Response to NC-003  
**Attachments:** Attached Image

Gentlemen: Please take note of Janusz Wszola's comments below. Regards, Scott

-----Original Message-----

**From:** Janusz Wszola  
**Sent:** Friday, November 20, 2009 3:23 PM  
**To:** Scott Benson  
**Subject:** RE: Martin's Point Special Inspections - Response to NC-003

### **SER response to Special Inspection Report No. NC-003:**

The angle brace directions were modified during the steel shop drawings review. The correct angle directions are defined by the connection plate locations as shown on the shop drawings #31 and #97, SMRT submittal #68 (copies of the drawings are attached for reference).

Please note that angle brace directions were also revised at the floor beams located next to the stair shaft next to line D. The correct connection plate locations are shown on beams 76B1 and 77B1 (SMRT submittal #68, shop drawings #76 and #77 - copies attached)

Janusz

-----Original Message-----

**From:** Matthew Miller, P.E. [mailto:MMillerPE@roadrunner.com]  
**Sent:** Friday, November 20, 2009 11:37 AM  
**To:** Scott Benson  
**Cc:** 'Street, Tim'; 'Paul Ureneck'; 'Ballard, Jared'; rdomingo@swcole.com  
**Subject:** Martin's Point Special Inspections

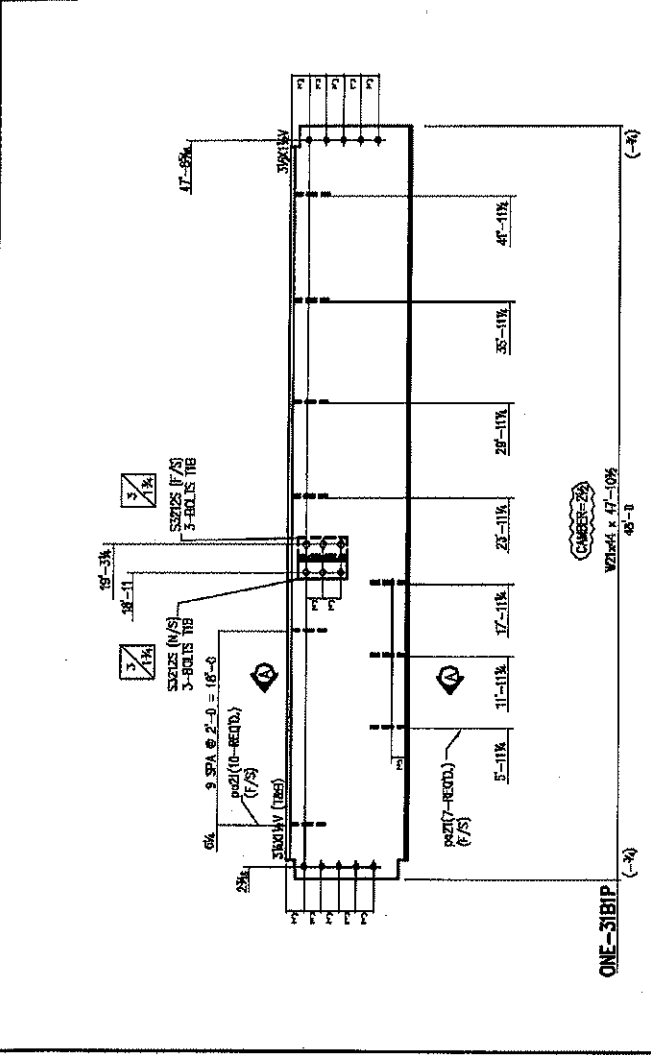
Attached, please find a copy of my field report and non-conformance report from my visit to the site yesterday.

Please feel free to call with any questions.

Matt

**Matthew J. Miller, P.E.**  
Structural Engineering Consultant  
23 Thornbury Way  
Windham, ME 04062  
207.232.2258  
[www.mmillerpe.com](http://www.mmillerpe.com)

SEC.	DRAWING MARK	ASSEMBLY MARK	NO. POS.	DESCRIPTION	GRADE	LENGTH		REMARKS	MATERIAL
						FT.	IN.		
1	1	1	ONE	W21x44	A588	47	100%	C	5-25
2			2	L x 3/4 x 3/8	A36	0	0%		
3			17	R 3/4 x 3/8	A36	0	0%		
4			5	TUB	36AL305-C	0	0	2	



FIELD BOLTS		DESCRIPTION	
NO.	SIZE	NO.	DESCRIPTION
25	3/4x25-10 x 1 1/4		

**GENERAL NOTES**

1. MATERIAL SPECIFICATIONS: A588, A36, 36AL305-C.

2. CONNECTIONS: SHOWN AS NOTED.

3. FINISH: AS NOTED.

4. SURFACE COATING: 1/2" THICK POLYURETHANE-IMP. EPOXY PAINT.

5. WELDING: AS NOTED.

6. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.

7. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.

8. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.

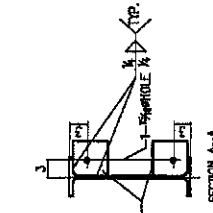
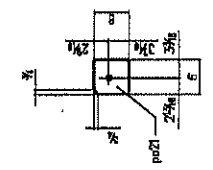
9. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.

10. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.

REVISIONS	
NO.	DATE
1	10/10/00
2	
3	
4	
5	
6	
7	
8	
9	

SEE NOTE 10 FOR ALL DIMENSIONS OF THIS SECTION.

SEE NOTE 10 FOR ALL DIMENSIONS OF THIS SECTION.



PROJECT: **MARTINS FORT HEALTH CARE MEDICAL OFFICE BUILDING**

ISSUED BY: **ISAACSON STRUCTURAL STEEL, INC.**  
40 JERICHO ROAD - BERLIN, NH

DATE: 10/10/00

SCALE: AS SHOWN

PROJECT NO.: 00-0000

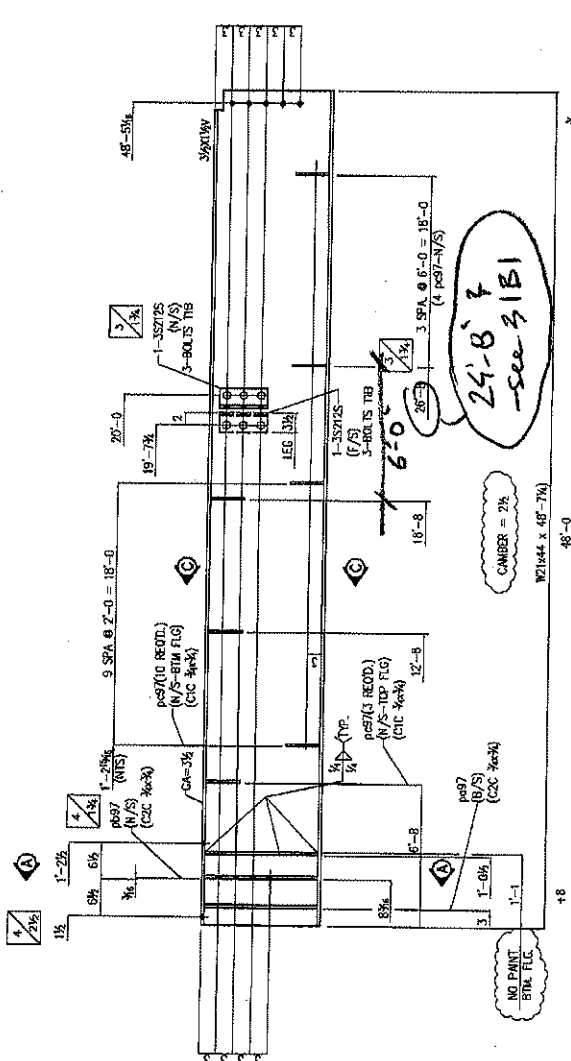
ISSUED BY: ISAACSON STRUCTURAL STEEL, INC.

DATE: 10/10/00

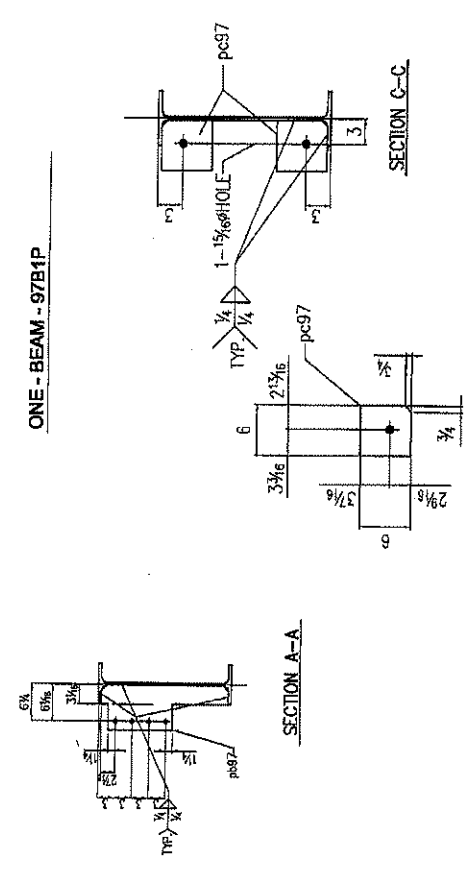
SCALE: AS SHOWN

PROJECT NO.: 00-0000

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	SPECIFICATION	GRADE	DIMENSIONS	MARKING	REMARKS	BILL OF MATERIAL
1	1	PC	1-35725 (F/S)	1-35725 (F/S)	AS	1-3/4"	1-3/4"	1-3/4"	1-3/4"
2	1	PC	3-BOLTS TIB	3-BOLTS TIB	AS	3/8"	3/8"	3/8"	3/8"
3	1	PC	1-35725 (F/S)	1-35725 (F/S)	AS	1-3/4"	1-3/4"	1-3/4"	1-3/4"
4	1	PC	3-BOLTS TIB	3-BOLTS TIB	AS	3/8"	3/8"	3/8"	3/8"
5	1	PC	1-35725 (F/S)	1-35725 (F/S)	AS	1-3/4"	1-3/4"	1-3/4"	1-3/4"
6	1	PC	3-BOLTS TIB	3-BOLTS TIB	AS	3/8"	3/8"	3/8"	3/8"
7	1	PC	1-35725 (F/S)	1-35725 (F/S)	AS	1-3/4"	1-3/4"	1-3/4"	1-3/4"
8	1	PC	3-BOLTS TIB	3-BOLTS TIB	AS	3/8"	3/8"	3/8"	3/8"
9	1	PC	1-35725 (F/S)	1-35725 (F/S)	AS	1-3/4"	1-3/4"	1-3/4"	1-3/4"
10	1	PC	3-BOLTS TIB	3-BOLTS TIB	AS	3/8"	3/8"	3/8"	3/8"
11	1	PC	1-35725 (F/S)	1-35725 (F/S)	AS	1-3/4"	1-3/4"	1-3/4"	1-3/4"
12	1	PC	3-BOLTS TIB	3-BOLTS TIB	AS	3/8"	3/8"	3/8"	3/8"
13	1	PC	1-35725 (F/S)	1-35725 (F/S)	AS	1-3/4"	1-3/4"	1-3/4"	1-3/4"
14	1	PC	3-BOLTS TIB	3-BOLTS TIB	AS	3/8"	3/8"	3/8"	3/8"
15	1	PC	1-35725 (F/S)	1-35725 (F/S)	AS	1-3/4"	1-3/4"	1-3/4"	1-3/4"
16	1	PC	3-BOLTS TIB	3-BOLTS TIB	AS	3/8"	3/8"	3/8"	3/8"
17	1	PC	1-35725 (F/S)	1-35725 (F/S)	AS	1-3/4"	1-3/4"	1-3/4"	1-3/4"
18	1	PC	3-BOLTS TIB	3-BOLTS TIB	AS	3/8"	3/8"	3/8"	3/8"
19	1	PC	1-35725 (F/S)	1-35725 (F/S)	AS	1-3/4"	1-3/4"	1-3/4"	1-3/4"
20	1	PC	3-BOLTS TIB	3-BOLTS TIB	AS	3/8"	3/8"	3/8"	3/8"
21	1	PC	1-35725 (F/S)	1-35725 (F/S)	AS	1-3/4"	1-3/4"	1-3/4"	1-3/4"
22	1	PC	3-BOLTS TIB	3-BOLTS TIB	AS	3/8"	3/8"	3/8"	3/8"
23	1	PC	1-35725 (F/S)	1-35725 (F/S)	AS	1-3/4"	1-3/4"	1-3/4"	1-3/4"
24	1	PC	3-BOLTS TIB	3-BOLTS TIB	AS	3/8"	3/8"	3/8"	3/8"
25	1	PC	1-35725 (F/S)	1-35725 (F/S)	AS	1-3/4"	1-3/4"	1-3/4"	1-3/4"
26	1	PC	3-BOLTS TIB	3-BOLTS TIB	AS	3/8"	3/8"	3/8"	3/8"
27	1	PC	1-35725 (F/S)	1-35725 (F/S)	AS	1-3/4"	1-3/4"	1-3/4"	1-3/4"
28	1	PC	3-BOLTS TIB	3-BOLTS TIB	AS	3/8"	3/8"	3/8"	3/8"
29	1	PC	1-35725 (F/S)	1-35725 (F/S)	AS	1-3/4"	1-3/4"	1-3/4"	1-3/4"
30	1	PC	3-BOLTS TIB	3-BOLTS TIB	AS	3/8"	3/8"	3/8"	3/8"



ONE-BEAM - 97B1P



SHOP NOTE:  
NO PAINT TOP OF TOP FLG.

SHOP NOTE:  
PROVIDE UPWARD CAMBER IN ALL BEAMS NOTED

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	SPECIFICATION	GRADE	DIMENSIONS	MARKING	REMARKS
1	1	PC	1-35725 (F/S)	1-35725 (F/S)	AS	1-3/4"	1-3/4"	1-3/4"
2	1	PC	3-BOLTS TIB	3-BOLTS TIB	AS	3/8"	3/8"	3/8"
3	1	PC	1-35725 (F/S)	1-35725 (F/S)	AS	1-3/4"	1-3/4"	1-3/4"
4	1	PC	3-BOLTS TIB	3-BOLTS TIB	AS	3/8"	3/8"	3/8"
5	1	PC	1-35725 (F/S)	1-35725 (F/S)	AS	1-3/4"	1-3/4"	1-3/4"
6	1	PC	3-BOLTS TIB	3-BOLTS TIB	AS	3/8"	3/8"	3/8"
7	1	PC	1-35725 (F/S)	1-35725 (F/S)	AS	1-3/4"	1-3/4"	1-3/4"
8	1	PC	3-BOLTS TIB	3-BOLTS TIB	AS	3/8"	3/8"	3/8"
9	1	PC	1-35725 (F/S)	1-35725 (F/S)	AS	1-3/4"	1-3/4"	1-3/4"
10	1	PC	3-BOLTS TIB	3-BOLTS TIB	AS	3/8"	3/8"	3/8"
11	1	PC	1-35725 (F/S)	1-35725 (F/S)	AS	1-3/4"	1-3/4"	1-3/4"
12	1	PC	3-BOLTS TIB	3-BOLTS TIB	AS	3/8"	3/8"	3/8"
13	1	PC	1-35725 (F/S)	1-35725 (F/S)	AS	1-3/4"	1-3/4"	1-3/4"
14	1	PC	3-BOLTS TIB	3-BOLTS TIB	AS	3/8"	3/8"	3/8"
15	1	PC	1-35725 (F/S)	1-35725 (F/S)	AS	1-3/4"	1-3/4"	1-3/4"
16	1	PC	3-BOLTS TIB	3-BOLTS TIB	AS	3/8"	3/8"	3/8"
17	1	PC	1-35725 (F/S)	1-35725 (F/S)	AS	1-3/4"	1-3/4"	1-3/4"
18	1	PC	3-BOLTS TIB	3-BOLTS TIB	AS	3/8"	3/8"	3/8"
19	1	PC	1-35725 (F/S)	1-35725 (F/S)	AS	1-3/4"	1-3/4"	1-3/4"
20	1	PC	3-BOLTS TIB	3-BOLTS TIB	AS	3/8"	3/8"	3/8"
21	1	PC	1-35725 (F/S)	1-35725 (F/S)	AS	1-3/4"	1-3/4"	1-3/4"
22	1	PC	3-BOLTS TIB	3-BOLTS TIB	AS	3/8"	3/8"	3/8"
23	1	PC	1-35725 (F/S)	1-35725 (F/S)	AS	1-3/4"	1-3/4"	1-3/4"
24	1	PC	3-BOLTS TIB	3-BOLTS TIB	AS	3/8"	3/8"	3/8"
25	1	PC	1-35725 (F/S)	1-35725 (F/S)	AS	1-3/4"	1-3/4"	1-3/4"
26	1	PC	3-BOLTS TIB	3-BOLTS TIB	AS	3/8"	3/8"	3/8"
27	1	PC	1-35725 (F/S)	1-35725 (F/S)	AS	1-3/4"	1-3/4"	1-3/4"
28	1	PC	3-BOLTS TIB	3-BOLTS TIB	AS	3/8"	3/8"	3/8"
29	1	PC	1-35725 (F/S)	1-35725 (F/S)	AS	1-3/4"	1-3/4"	1-3/4"
30	1	PC	3-BOLTS TIB	3-BOLTS TIB	AS	3/8"	3/8"	3/8"

**BILL OF MATERIAL**

NO.	ASSEMBLY MARK	DESCRIPTION	GRADE	LENGTH FT.	NO. PCS.	REMARKS	MILL ORDR.
1	76B1P	ONE WZ4x55	A992	49	5 3/4	C	2/11
2		4 L4x3 1/2x3/8	A36	0	8 1/2		
3		27 I <sup>e</sup> 7/8x6	A36	0	6		
4		12 3/4φA325-TC		0	2		

**FIELD BOLTS**

NO.	DESCRIPTION	NO. PCS.	REMARKS
39	3/4φ A325-TC x 1 3/4"		

**GENERAL NOTES**

MATERIAL GRADE: A992 UNO.

ELECTRODES: E70XXLH

WELDS: 1/8" UNO.

SURFACE PREP: SSPC-SP8

SURFACE COATING:

1ST COAT: 1-5/8" THICK EPDM PERMETRINE (U.L.O.)

2ND COAT:

3RD COAT:

NUMBER IN BRACKET FROM END OF MAIN MATERIAL UNO.

ALL VERTICAL SPACING OF HOLES TO BE 1" UNLESS NOTED.

ALL LINES TO HAVE 1/8" MINIMUM FINISH.

HOLE SIZES OF CLIPS NOTED "AT END OF PC MARK TO BE PROVISIONALLY BLOTTED UP" MORE THAN BOLT DIAMETER.

CHANGES FOR CORRECTIVE WORK WILL NOT BE HONORED UNLESS PREVIOUS APPROVAL IS OBTAINED FROM ISAACSON STRUCTURAL STEEL, INC.

MEMBERS TO BE ERECTED AND TIGHTENED END IS IN SAME LOCATION AS ON ERECTION DRAWING NO. E1

PROJECT: MARTIN'S POINT HEALTH CARE MEDICAL OFFICE BUILDING PORTLAND, MAINE

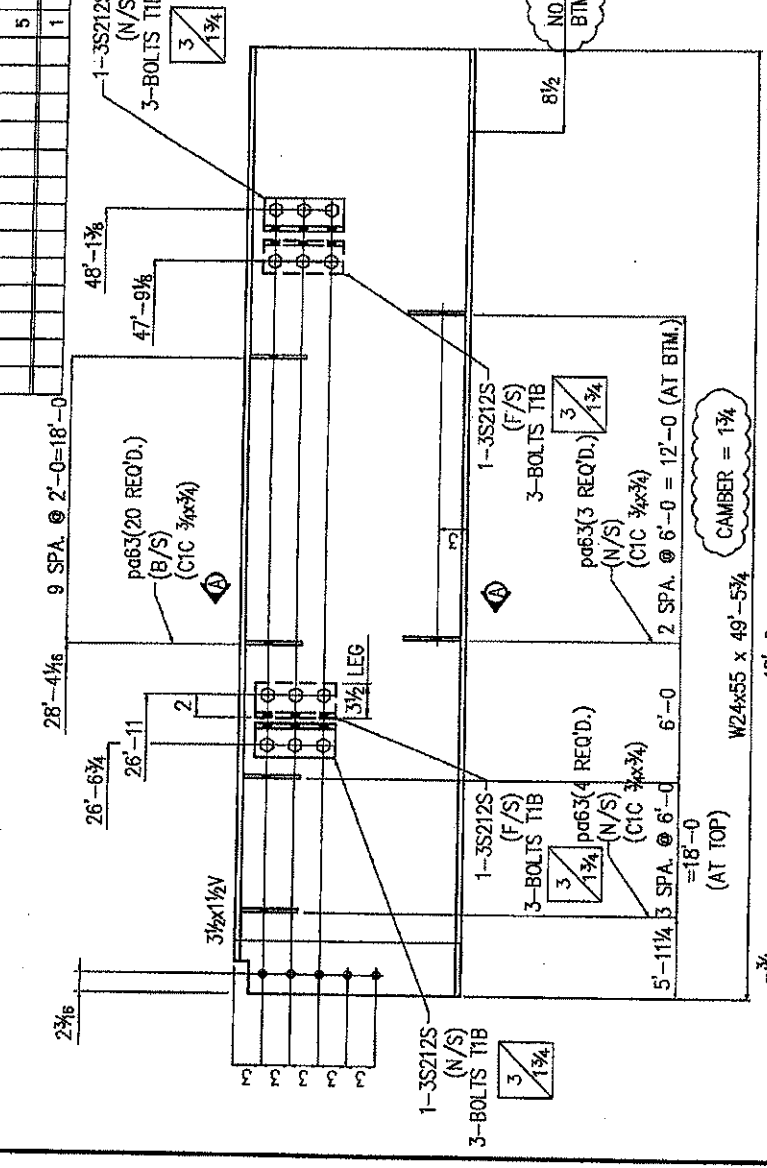
ISAACSON STRUCTURAL STEEL, INC. 40 JERICHO ROAD - BERLIN, NH

**REVISIONS**

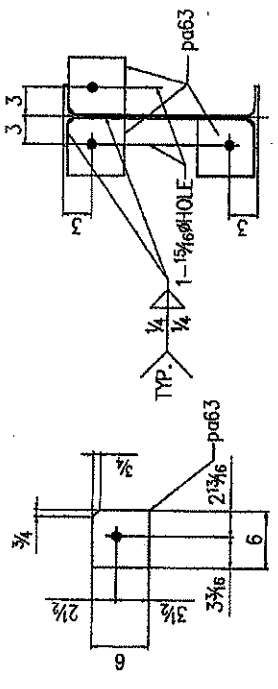
NO.	DATE	REVD.	PER APPROVAL
A	8-03-06		
B			
C			
D			
E			
F			
G			

**SEC.**

NO.	DESCRIPTION	NO. PCS.	REMARKS
1	1-3S212S (N/S)		
2	3-BOLTS T1B		
3	3-BOLTS T1B		
4	3-BOLTS T1B		
5	3-BOLTS T1B		
6	3-BOLTS T1B		
7	3-BOLTS T1B		
8	3-BOLTS T1B		
9	3-BOLTS T1B		
10	3-BOLTS T1B		
11	3-BOLTS T1B		
12	3-BOLTS T1B		
13	3-BOLTS T1B		



**ONE - BEAM - 76B1P**



SHOP NOTE:  
PROVIDE UPWARD  
CAMBER IN ALL  
BEAMS NOTED

SHOP NOTE:  
NO PAINT TOP  
OF TOP FLANGE

**SECTION A-A**

**BILL OF MATERIAL**

SEQ.	SHIPPING MARK	ASSEMBLY MARK	NO. POS.	DESCRIPTION	GRADE	LENGTH FT.	IN.	SC	REMARKS	WELL ORL.
1	77B1P		ONE	W24x55	A992	49	5 7/8	C	C=1 1/2	2/11
2		SS212S	4	L4x3 1/2x 3/8	A36	0	8 1/4			
3		pa63	17	pa63	A36	0	6			
4		T1B	12	3/4" A325-TC		0	2			
5										
6										
7										
8										
9										
10										
11										
12										
13										

**FIELD BOLTS**

PIECE MARK	NO. POS.	DESCRIPTION	PIECE MARK	NO. POS.	DESCRIPTION
	29	3/4" A325-TC x 1 1/4"			

**GENERAL NOTES**

MATERIAL GRADE: A588 U.L.C.O.  
 ELECTRODES: E70XXLH  
 FOLDS: 1816 B U.L.C.O.  
 SURFACE PREP: SSFC-SF8  
 SURFACE COATING: 1ST COAT: 1-S/C TIECO; 184 PERMPHENE (U.L.C.O.)  
 2ND COAT: 3RD COAT:  
 RUNNING DIMENSION FROM END OF MEMBER UNLESS NOTED.  
 ALL VERTICAL SPACINGS OF HOLES TO BE 4" UNLESS NOTED.  
 ALL COLES TO HAVE 4X MINIMUM RADIUS.  
 HOLES IN CASE OF CLIPS NOTED "C" AT END OF MEMBER TO BE INDIVIDUALLY SLOTTED 1/4" MORE THAN BOLT DIAMETER.  
 CHANGES FOR CORRECTING WORK WILL NOT BE INCURRED UNLESS PREVIOUS APPROVAL IS OBTAINED FROM HANCOCK STRUCTURAL STEEL, INC.  
 MEMBERS TO BE ERECTED SO THAT MARKED END IS IN SAME LOCATION AS ON ERECTION DRAWING INC. E1

**REVISIONS**

NO.	DATE	REMARKS
A	8-09-08	REV'D. PER APPROVAL.
B		
C		
D		
E		
F		
G		

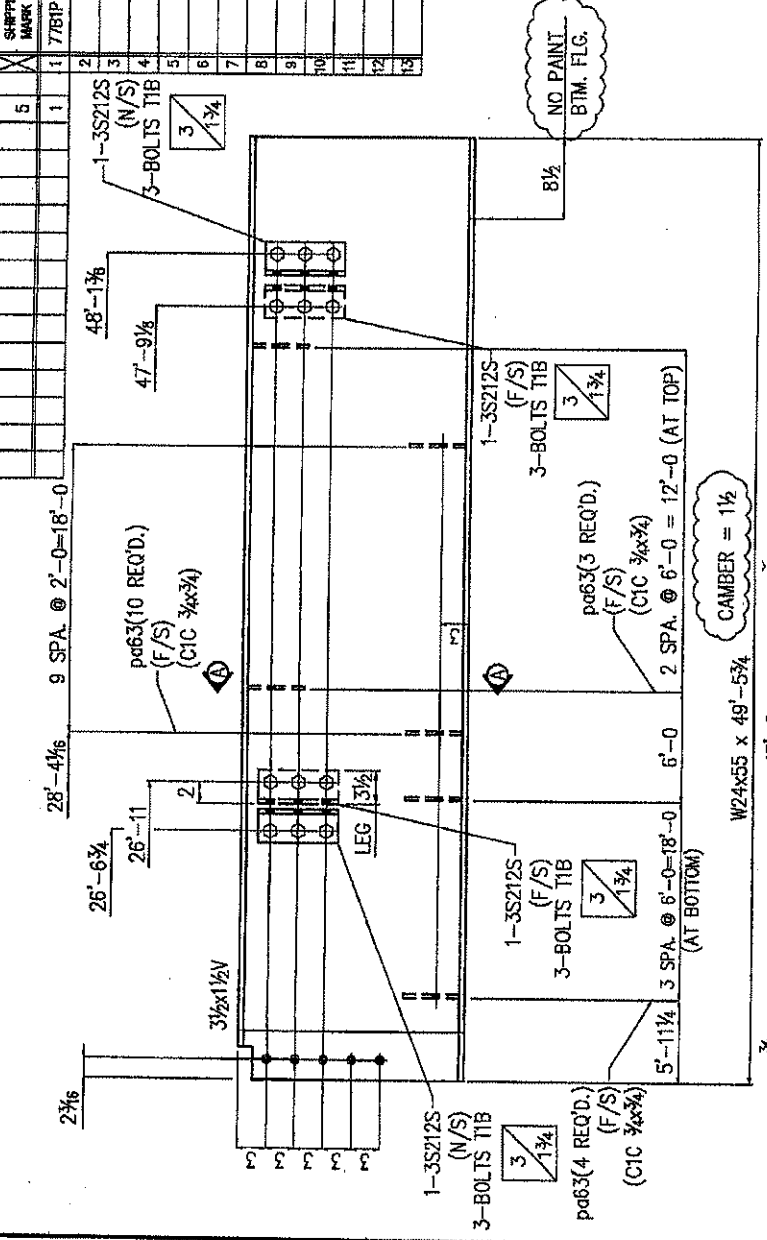
RESUME FOR PERMANENT TEMP.

PROJECT:  
 MARTINS POINT HEALTH CARE  
 MEDICAL OFFICE BUILDING  
 PORTLAND, MAINE

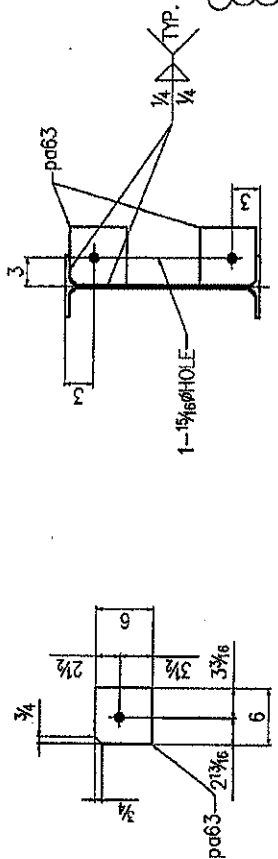
ISAACSON STRUCTURAL STEEL, INC.  
 40 JERICHO ROAD - BERLIN, NH

DRAWN BY - DATE	CHECKED BY - DATE	JOB NO.	DWG. NO.
REG 07/09	CRM 07/09	2-642	77

**SEQ.**



**ONE - BEAM - 77B1P**



SHOP NOTE:  
 PROVIDE UPWARD  
 CAMBER IN ALL  
 BEAMS NOTED

SHOP NOTE:  
 NO PAINT TOP  
 OF TOP FLANGE

**SECTION A-A**

**MATTHEW J. MILLER, P.E.**  
STRUCTURAL ENGINEERING CONSULTANT  
23 THORNBURY WAY  
WINDHAM, ME 04062  
207.232.2258

**SPECIAL INSPECTIONS  
NON-CONFORMANCE  
REPORT**

**Report No. NC-004**

Date: December 16, 2009  
To: Scott Benson  
SMRT  
144 Fore Street  
Portland, ME 04104  
From: Matthew J. Miller, P.E.  
Project: Martin's Point MOB Special Inspections  
Project No: 09012

**DESCRIPTION OF NON-CONFORMANCE:**

Refer to Field Report 5-004 attached: Item #5.

1. The connection between beam 69B1 and column 333C1 was comprised of (4) bolts where the beam web was punched for a 5 bolt connection. It appeared that the bolts were either 7/8" or 1" diameter bolts. GC verify size of bolts for SER review.

Refer to Field Report 5-004 attached: Item #12.

1. Missing web stiffeners at beam web penetration. The penetration located at the centerline of beam 87B1 did not contain stiffeners in accordance with detail A15/SF102. See Photo MPH C MOB 37 attached.
2. The bottom flange of beam 23B1 was field cut to allow for the installation of the bolted connection of the beam on the opposite site of the girder. See photo MPH C MOB 38 attached.

**STRUCTURAL ENGINEER OF RECORD (S.E.R.) RESPONSE:** (Provide attachment(s) as required)

**S.E.R.**  
**Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_

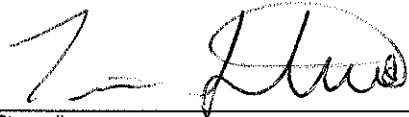
Is re-inspection by Special Inspector required?

Yes  No

**CONTRACTOR VERIFICATION:** (To be completed by either the General Contractor or sub-contractor responsible for portion of work in non-conformance and returned to the Special Inspector and Structural Engineer of Record)

I verify, that as of the date listed below, that the non-conforming item(s) noted above has (have) been corrected as required.

Date Completed: 1-12-2010

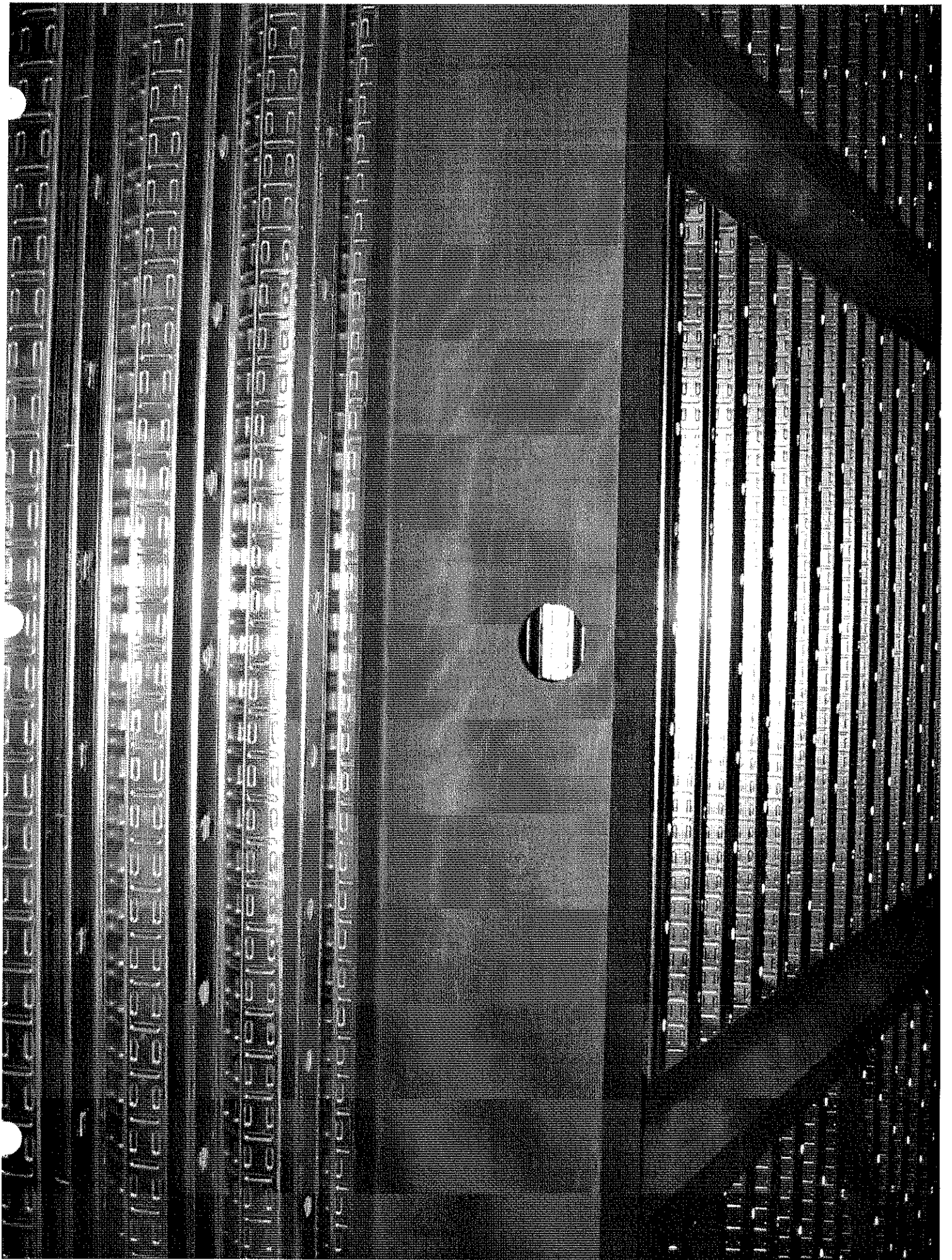
By:   
(Signed)

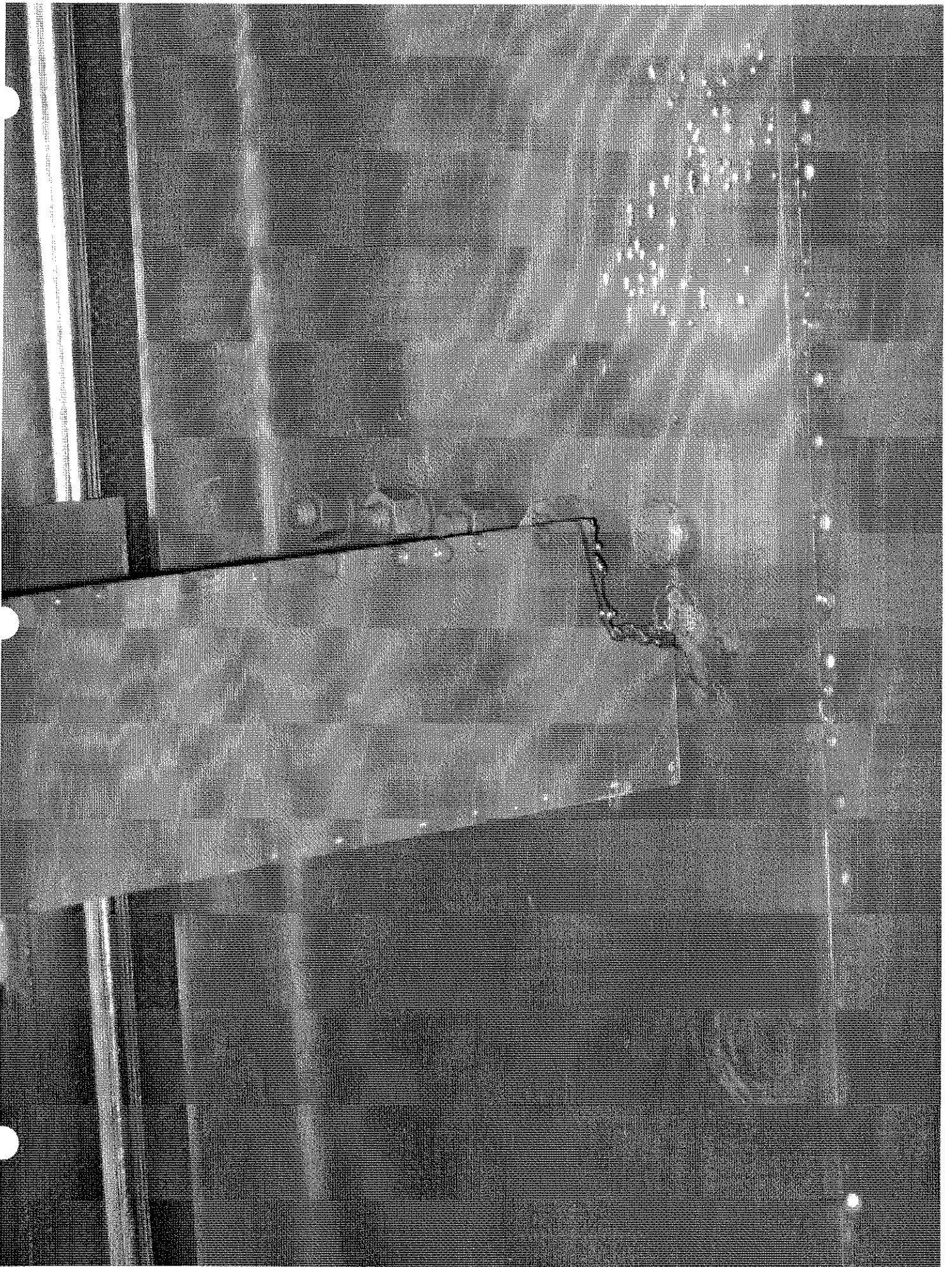
Tim Street  
(Print name)

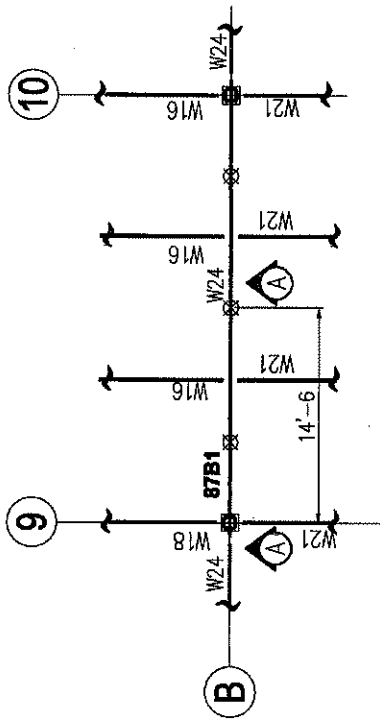
Pizza Galli Construction  
(Company)

*Please see Attached Documents*

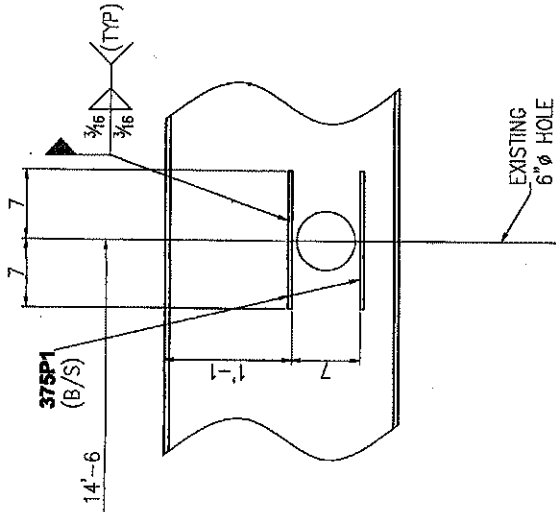
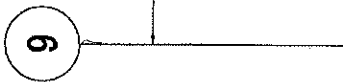








PARTIAL FRAMING LEVEL 3  
REF E2



SECTION A-A

CORRECTIVE WORK  
ADD REINFORCING  
RS AT MIDDLE  
WEB PEN

SHOP

ISAACSON STRUCTURAL STEEL, INC.

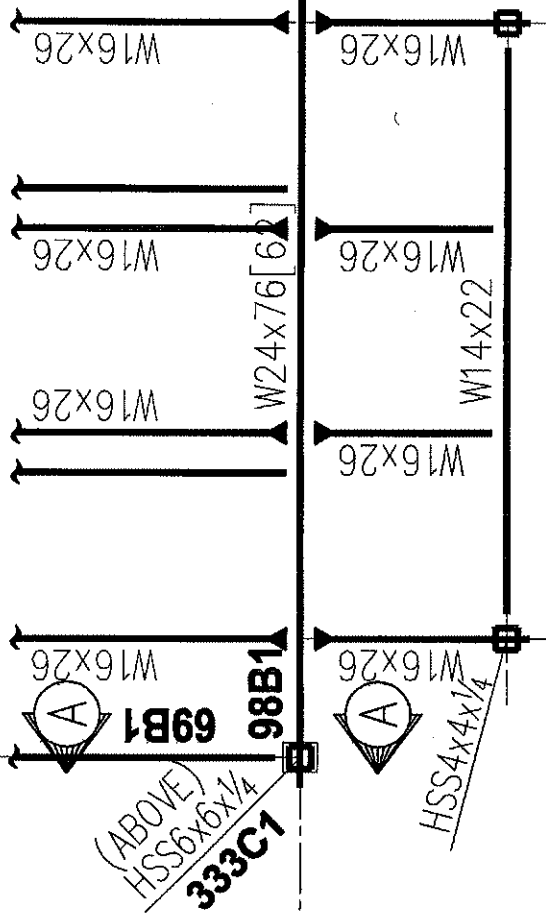
JOB NO. 2-642  
MARTIN'S POINT HEALTH CARE  
PORTLAND, MAINE

CONTR. BC  
DATE: 12/18/09  
CHK. BY: CRM 12/09  
DWC NO. FW8

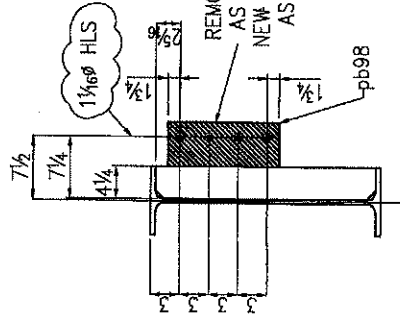
REV	DATE



6

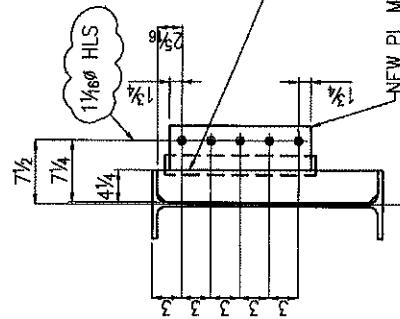


PARTIAL FRAMING THIRD LEVEL  
REF E1



SECTION A-A

REMOVE PART OF PL  
AS SHOWN & WELD  
NEW PL MKD. -374P1  
AS SHOWN BELOW



SECTION A-A

CORRECTIVE WORK  
FIX EXTENDED PLATE  
DRAFTING

ISAACSON STRUCTURAL STEEL, INC.	
JOB NO.	2-642
JOB:	MARTIN'S POINT HEALTH CARE PORTLAND, MAINE
CONTR.	
DWG. BY:	REC
DATE:	12/18/09
CHK. BY:	FWS

# P.J.A. ASSOCIATES, INC.

350 STATE STREET, SUITE 200  
BINGHAMTON, N.Y. 13901

**FAX COVER SHEET**

pjaassociates@stny.rr.com  
607-723-2090

SEND TO:

COMPANY NAME: ISSI

DATE: 1/11/10

FROM: Chuck Miller

ATTENTION: STEVE KINNEY

FAX NUMBER:

JOB NAME: MARTINS POINT

JOB NUMBER: 2-642

( ) URGENT ( ) REPLY ASAP ( ) PLEASE COMMENT ( ) PLEASE REVIEW (X) FOR YOUR INFORMATION

TOTAL PAGES, INCLUDING COVER 1

COMMENTS:

IN RESPONSE TO NCR-004, WE SEE NO  
PROBLEM WITH BOTTOM FLANGE OF BEAM  
23131 BEING NOTCHED TO CLEAR BOLT,  
HOWEVER, FINAL ACCEPTANCE SHOULD REMAIN  
WITH E.O.R.

**MATTHEW J. MILLER, P.E.**  
STRUCTURAL ENGINEERING CONSULTANT  
23 THORNBURY WAY  
WINDHAM, ME 04062  
207.232.2258

**SPECIAL INSPECTIONS  
NON-CONFORMANCE  
REPORT**

**Report No. NC-005**

Date: January 6, 2010  
To: Scott Benson  
SMRT  
144 Fore Street  
Portland, ME 04104  
From: Matthew J. Miller, P.E.  
Project: Martin's Point MOB Special Inspections  
Project No: 09012

**DESCRIPTION OF NON-CONFORMANCE:**

1. Refer to Field Report 5-005 attached: Item #13.

The deck welds to the structural steel angle along the face of the concrete wall along Line D between grid lines 1 and 8 were spaced at intervals up to 3'-0" to 4'-0" oc. According to deck note #1C on drawing SG001 the welds should be spaced at 12" oc maximum. →

2. Refer to Field Report 5-005 attached: Item #14.

There were not enough shear studs on a couple composite beams at the roof level. The beams were two W21x44's located to the east of Stair A.

3. Refer to Field Report 5-005 attached: Item #16.

At several locations, bond outs had been installed over composite beam locations. After follow up with Janusz Wszola of SMRT, bond out should not be located directly over beams. (Refer to e-mail dated 01/05/2010) This occurs where the slab had previously been placed and where the slabs were being prepared for future placement.

**STRUCTURAL ENGINEER OF RECORD (S.E.R.) RESPONSE:** (Provide attachment(s) as required)

**S.E.R.**

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

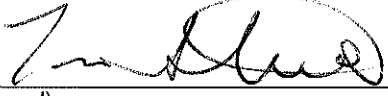
Is re-inspection by Special Inspector required?

Yes  No

**CONTRACTOR VERIFICATION:** (To be completed by either the General Contractor or sub-contractor responsible for portion of work in non-conformance and returned to the Special Inspector and Structural Engineer of Record)

I verify, that as of the date listed below, that the non-conforming item(s) noted above has (have) been corrected as required.

Date Completed: 1-12-2010

By:   
(Signed)

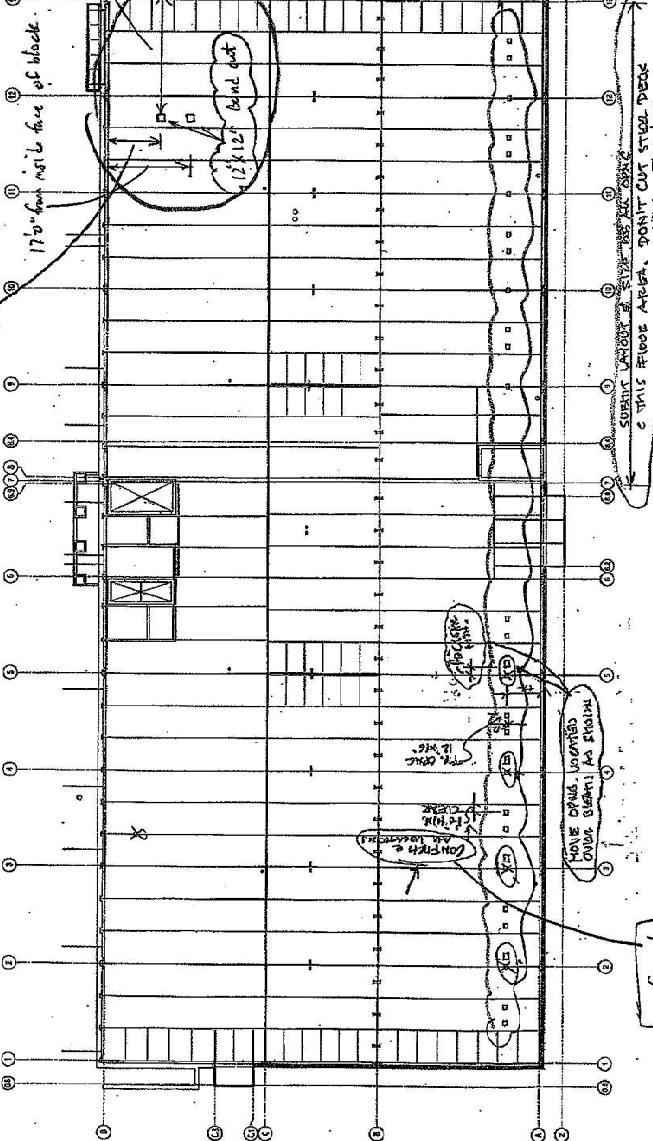
Tim Sifese  
(Print name)

Pizzosalli  
(Company)

*please see Attached Documents*

12'-6" from inside face of block

MPHC



15'-3" from inside face of block

OK  
NO REPAIR IS REQ'D

SHRS  
3/18/10

Note: All locations being infilled w/ concrete blocks will be reflected in walls.

USE 4000 PSI, LOW SLUMP (<4") HIGH EARLY STRENGTH CONCRETE W/ RAPID SETTING CEMENT BY CTS OR EQUAL

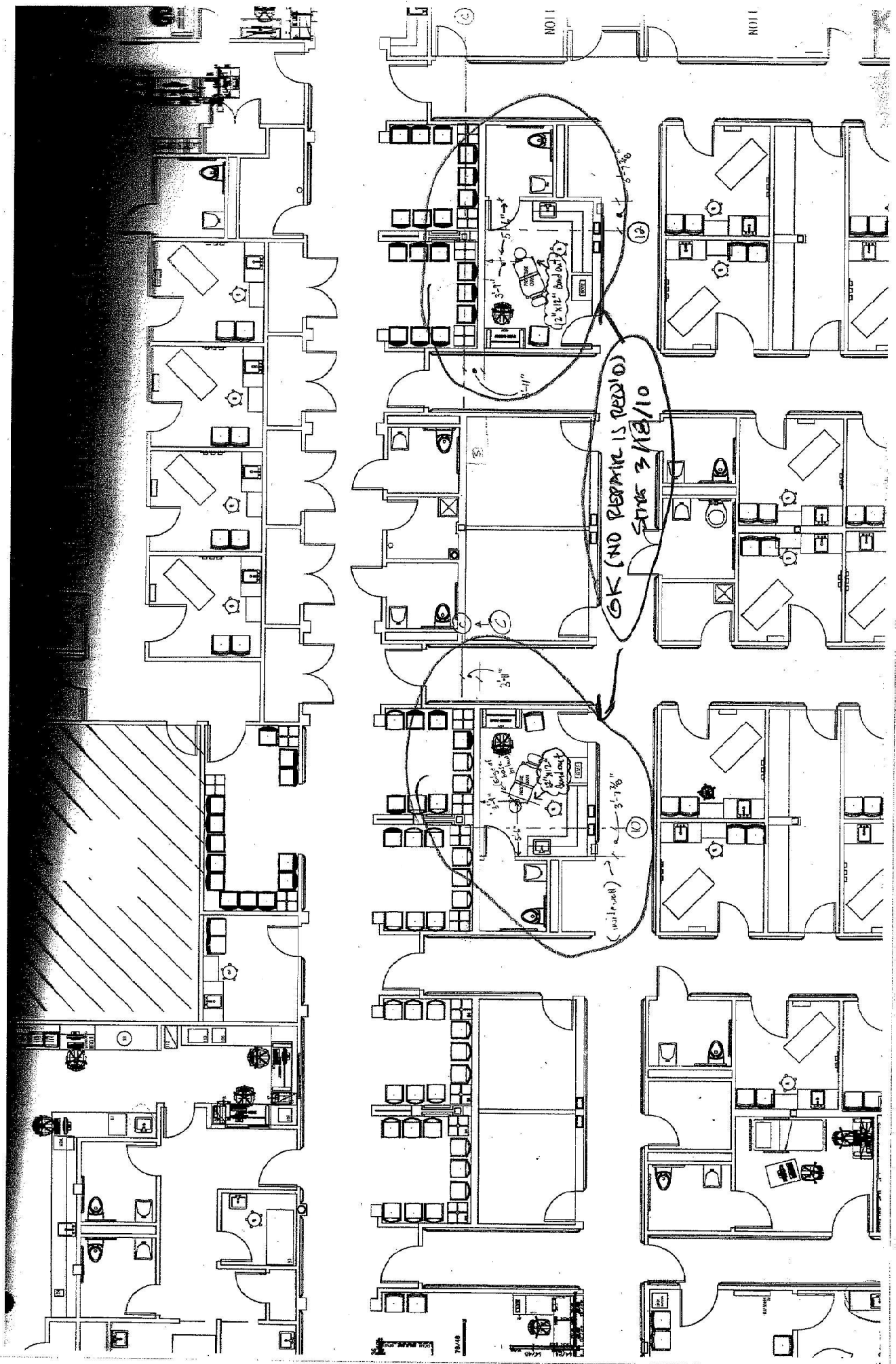
S-1  
01/08/2010

See layout above, and on attached drawing furniture layout drawing.

Confirmed

2ND FLOOR LEVEL - FLOOR DIMS. LOCATIONS





OK (NO REPAIR IS REQ'D)  
 STAGE 3/18/10

1011

1011

1013

1013

2 X 10" Board Out?

2 X 10" Board Out?

3'-11"

(multi-wall) → 3'-7 3/8"

2011

2011

2013

2013

2015

2015

2015

2015

2015

2015

2017

2017

2017

2017

2017

2017

2019

2019

2019

2019

2019

2019

2020

2020

2020

2020

2020

2020

**MATTHEW J. MILLER, P.E.**  
STRUCTURAL ENGINEERING CONSULTANT  
23 THORNBURY WAY  
WINDHAM, ME 04062  
207.232.2258

**SPECIAL INSPECTIONS  
NON-CONFORMANCE  
REPORT**

**Report No. NC-006**

Date: January 13, 2010  
To: Scott Benson  
SMRT  
144 Fore Street  
Portland, ME 04104  
From: Matthew J. Miller, P.E.  
Project: Martin's Point MOB Special Inspections  
Project No: 09012

**DESCRIPTION OF NON-CONFORMANCE:**

1. Refer to Field Report 5-006 attached: Item #13.

At a number of areas the top flutes of the deck were cut in order to slope the deck to match the structure thus causing the deck to span fewer than three spans. These area are shown in the drawings attached to Field Report 5-006. EOR should review conditions to verify as built conditions are acceptable or offer remedial fix.

**STRUCTURAL ENGINEER OF RECORD (S.E.R.) RESPONSE:** (Provide attachment(s) as required)

**S.E.R.**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Is re-inspection by Special Inspector required?

Yes  No

**CONTRACTOR VERIFICATION:** (To be completed by either the General Contractor or sub-contractor responsible for portion of work in non-conformance and returned to the Special Inspector and Structural Engineer of Record)

I verify, that as of the date listed below, that the non-conforming item(s) noted above has (have) been corrected as required.

Date Completed: 1/20/10

By:

Jared Ballard  
(Signed)

Jared Ballard  
(Print name)

Pragati Construction  
(Company)

**Matthew J. Miller, P.E.**

---

**From:** Scott Benson [SBenson@SMRTInc.com]  
**Sent:** Thursday, January 14, 2010 5:18 PM  
**To:** Ballard, Jared; Bertolini, Garret; Street, Tim  
**Cc:** Janusz Wszola; Laurie Warhol; Matthew Miller, P.E.  
**Subject:** FW: MPH: EOR Response to NC-006  
**Follow Up Flag:** Follow up  
**Flag Status:** Red

Hi Jared:

Please review Janusz's e-mail below for SMRT's response to the attached field reports received from Matt Miller on 1/13/2010.

Regards,  
Scott

---

**From:** Janusz Wszola  
**Sent:** Thursday, January 14, 2010 10:21 AM  
**To:** Scott Benson  
**Subject:** MPH: EOR Response to NC-006

*Scott,*

*Please forward it to ...  
Thanks.*

*Janusz*

**EOR Response to NC-006:**

1. Refer to attached SMRT sketches S-1, S-2 and S-3 (NC-006-response.pdf) for the required deck repair detail and locations.  
Re-inspection by Special Inspector is required.
2. Contractor shall submit for SMRT review the locations of deck cuts at the roof areas already covered with roofing. If required, the deck repair which can be installed at the bottom of the deck will be provided.

Janusz S. Wszola PE  
*Senior Structural Engineer*

SMRT  
144 Fore Street, PO Box 618 Portland, Maine 04104  
p 207.772.3846 f 207.772.1070  
[www.smrtinc.com](http://www.smrtinc.com)

---

**From:** Matthew Miller, P.E. [mailto:MMillerPE@roadrunner.com]

8/12/2010

**Sent:** Wednesday, January 13, 2010 4:14 PM  
**To:** 'Roger Domingo'  
**Cc:** Tim Street; 'Ballard, Jared'; 'Paul Ureneck'; Scott Benson; Janusz Wszola  
**Subject:** MPMOB SI

Attached please find copies of my field report and corresponding Non-Conformance report from my visit to the site yesterday.

Please let me know if you have any questions.

Regards,

**Matthew J. Miller, P.E.**  
Structural Engineering Consultant  
23 Thornbury Way  
Windham, ME 04062  
207.892.0983  
[www.millerpe.com](http://www.millerpe.com)

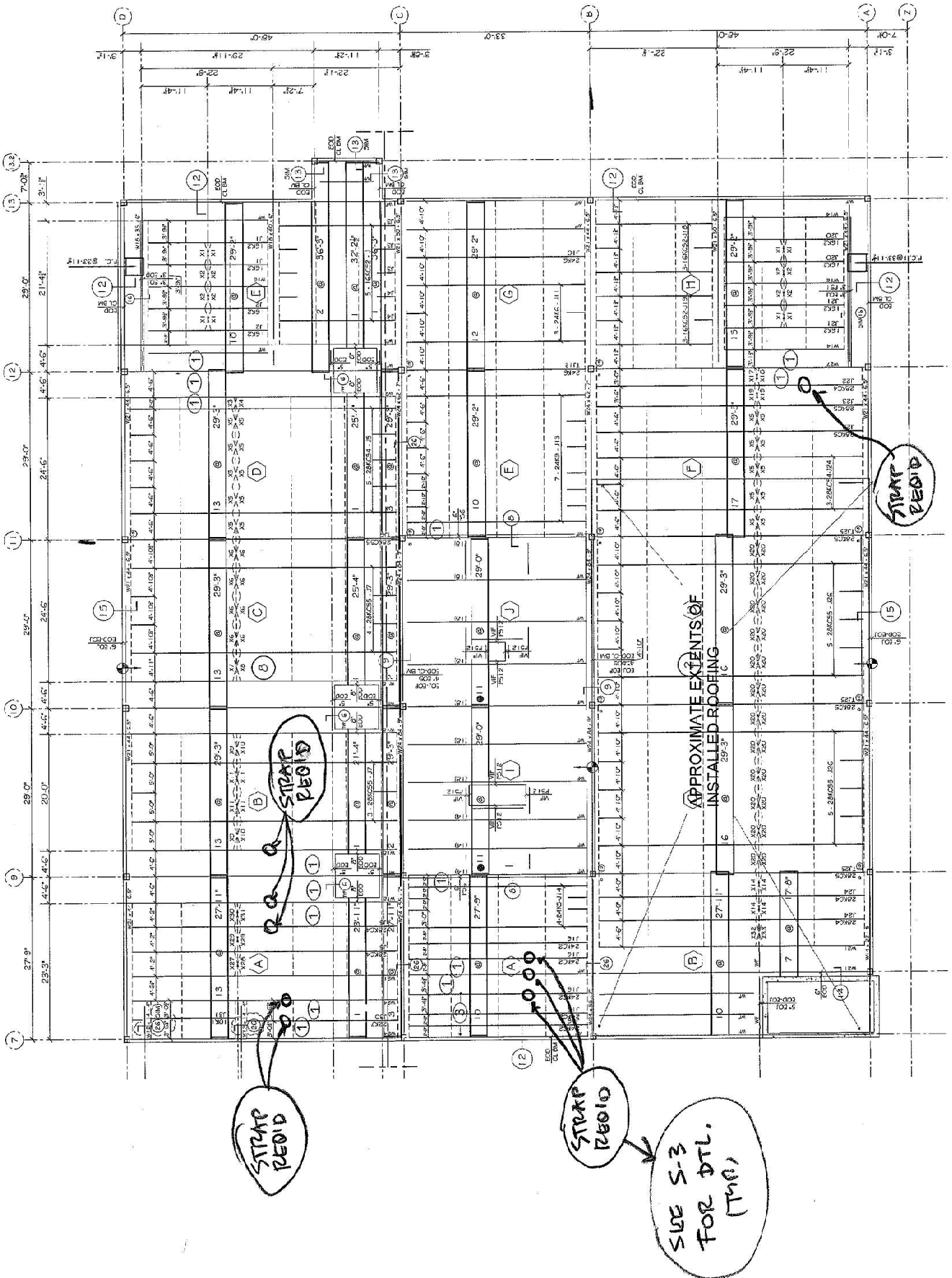
No virus found in this incoming message.  
Checked by AVG - [www.avg.com](http://www.avg.com)  
Version: 9.0.725 / Virus Database: 270.14.139/2620 - Release Date: 01/14/10 02:35:00

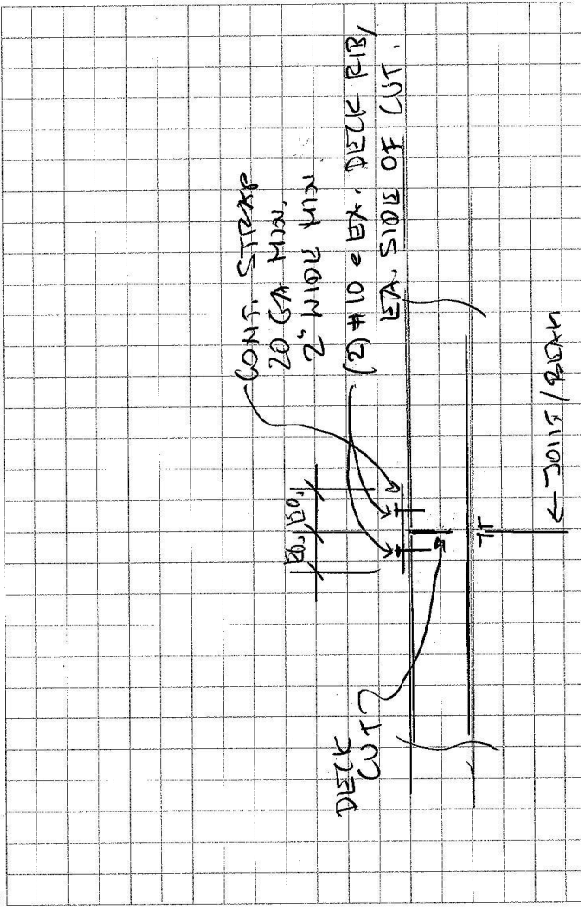


KPHC - ROOF DECK REPAIR LAYOUT

REF: NC-006

S-2  
01/14/10





DECK REPAIR DETL. & CUT LOCATIONS

REF.: NC-006

NOTE: REFER TO SKETCHES S-1 & S-2 FOR REPAIR STRAP LOCATIONS.

S-3  
01/14/10

**Tab 5**





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## DAILY CONSTRUCTION REPORT

**Project:** Martin's Point Healthcare Building and Parking Garage

**SWCE Project No.:** 05-0927.4

**Client:** Martin's Point Healthcare

**Weather:** Sunny, 70's.

**Client's Rep.:** Gene Gilles

**Date:** 7-6-09

As scheduled by Pizzagalli Construction, we made a site visit to observe subgrade preparation for the proposed building/garage. We understand that blasting has been completed and Shaw Brothers is in the process of exporting excess material with approximately one third of the proposed building footprint cut to subgrade elevation. Shaw Brothers was not ready at the time of our initial visit so a follow up visit was coordinated for later in the day. During our second site visit, we observed footing excavation and subgrade preparation between approximate column lines 11 and 13, and C and D. Shaw Brothers over-excavated 1½-feet below bottom of footing; we understand that the excavation was laterally oversized 2-feet on either side. The rock surface at the bottom of the excavation appears well fractured with no large voids noted. Although none were observed in this section, we recommended that any large displaced pieces of blast rock encountered during excavation be removed to minimize the potential for underlying voids. Shaw Brothers ramped into the footing with a Caterpillar CS563D vibratory drum roller to densify the subgrade; four to five passes appeared to consolidate the blast material. Once subgrade was compacted, 12-inches of finer blast rock was placed, graded and compacted. Our initial recommendation was that 6-inch minus be used, and although most of the rock was finer, some larger material was used. We indicated to Shaw Brothers that based on our observations of the fill process, a well graded blend of blast material was more critical than the precise particle size. Once compacted the mat surface appeared uniform and tight; 6-inches of ¾-inch crushed stone will be placed, graded and compacted with the large roller prior to starting footing from work. Work observed appears to be in accordance with an SWCE Memo dated June 7, 2009 detailing our recommendations for footing preparation based on test pit observations.

**On Site:** 8:30 – 9:15 and 12:30 – 4:00

**Attachments:** Photos

**Sheet:** 1 of 1

**SWC Rep.:** K. Gimpel

**Rev. by:** RED

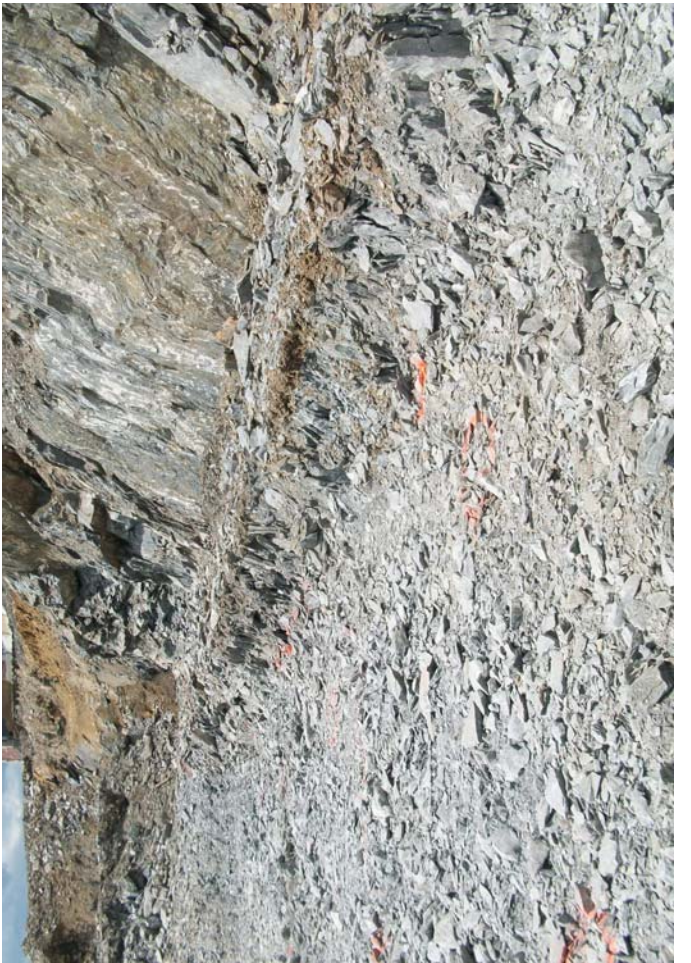
P:\2005\05-0927.4 M - Martin's Point Healthcare, Inc - Portland, ME - Martin's Point Healthcare Building & Parking Garage - RED\IDFR's\IDFR 7-6-09.docx

GRAY, ME OFFICE

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

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











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

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

## DAILY CONSTRUCTION REPORT

**Project:** Martin's Point Healthcare Building and Parking Garage

**SWCE Project No.:** 05-0927.4

**Client:** Martin's Point Healthcare

**Date:** 7-8-09

**Client's Rep.:** Gene Gilles

**Weather:** Rain, 50's

As scheduled by Pizzagalli Construction, we made a site visit to observe subgrade preparation and compaction of footing areas for the proposed building. Shaw Brothers was in the process of exporting excess material from areas west of column line 10. We observed footing excavation and subgrade preparation between column lines 11 and 10 on D line. Shaw Brothers over-excavated blast rock to approximately 1½-feet below the bottom of footings. Shaw Brothers compacted the blasted ledge with a Caterpillar CS563D vibratory drum roller to densify the subgrade, we did not observe large voids at the subgrade elevation. Once the subgrade was compacted, 12-inches of finer blast rock was placed, graded and compacted. The footing mat surface appeared uniform and tight after compaction settling approximately 1 to 2-inches. We understand that Shaw Brothers will grade and compact six inches of ¾-inch crushed stone with the large roller prior to starting footing work.

**On Site:** 2:00 to 3:00  
**Attachments:** Photos  
**Sheet:** 1 of 1

**SWC Rep.:** PJO & TJB  
**Rev. by:** RED

P:\2005\05-0927.4 M - Martin's Point Healthcare, Inc - Portland, ME - Martin's Point Healthcare Building & Parking Garage - RED\DFR's\DFR 7-8-09.docx

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**DAILY CONSTRUCTION REPORT**

**Project:** Martin's Point Healthcare Building and Parking Garage

**SWCE Project No.:** 05-0927.4

**Client:** Martin's Point Healthcare

**Date:** 7-9-09

**Client's Rep.:** Gene Gilles

**Weather:** Sunny, 70's

Shaw Brothers began excavation of footings along the southeast corner of the proposed medical office building. A significant amount of water was observed draining into footing excavations from remnant shot rock north of A line. Dewatering was necessary between column line 13 and 12 on A line. Shaw Brothers created a sump with a perforated PVC stand pipe and crushed stone at the outside corner of the footing. Water pumped from the footing was filtered through a Dirt Bag down gradient of A line. As standing water decreased we observed blasted rock in the interior of the footing line. Native subgrade was observed at the bottom of footing elevations on the exterior of A line. Subgrade consisted of a brown sandy glacial till. Shaw Brothers is aware that blasted rock is considered unsuitable and needs to be removed from the footing area. Geotextile fabric and structural fill were not placed on native subgrade at the time of our site visit due to the volume of water in the footings. Dewatering continued until late in the afternoon in preparation for further excavation tomorrow.

**On Site:** 1:30 to 4:30

**Attachments:** Photos

**Sheet:** 1 of 1

P:\2005\05-0927.4 M - Martin's Point Healthcare, Inc - Portland, ME - Martin's Point Healthcare Building & Parking Garage - RED\DFR's\DFR 7-9-09.doc

**SWC Rep.:** PJO

**Rev. by:** RED

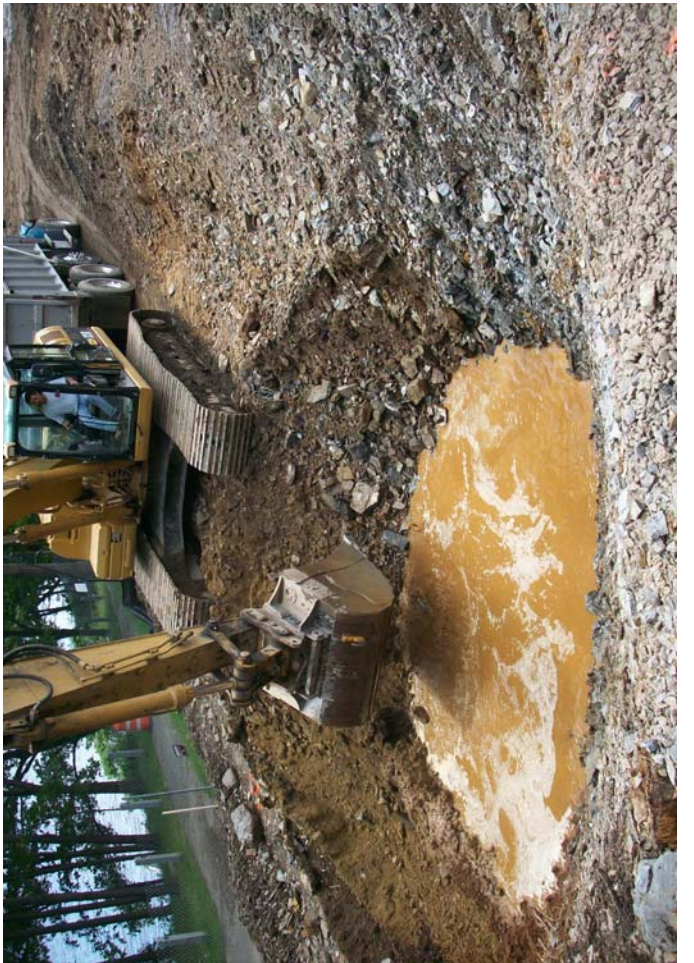
*RED*

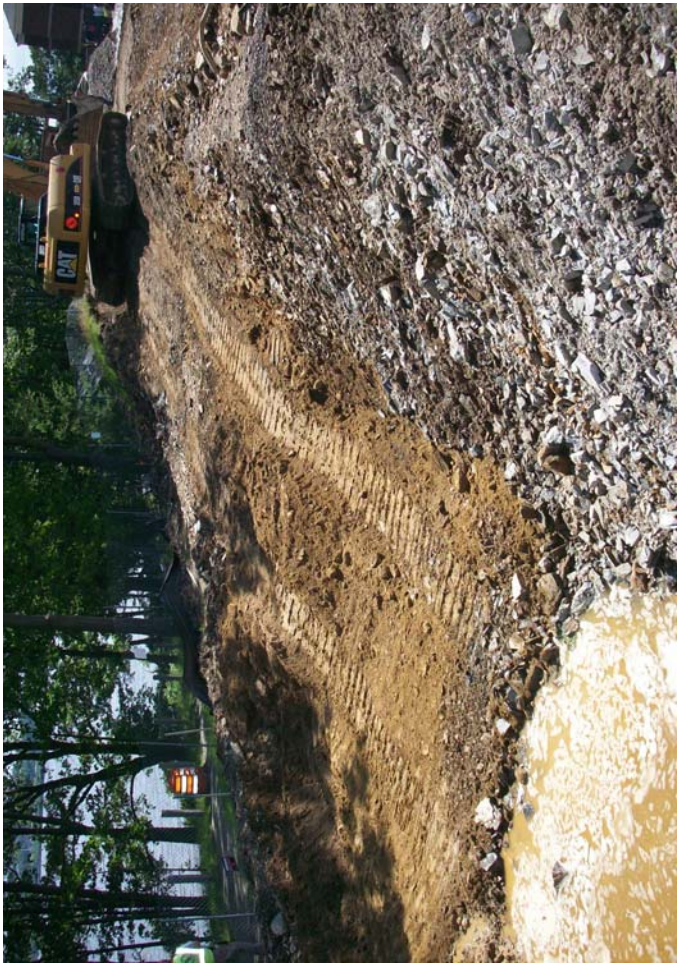
GRAY, ME OFFICE

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

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## DAILY CONSTRUCTION REPORT

**Project:** Martin's Point Healthcare Building and Parking Garage

**SWCE Project No.:** 05-0927.4

**Client:** Martin's Point Healthcare

**Date:** 7-10-09

**Client's Rep.:** Gene Gilles

**Weather:** Sunny, 70's

Shaw Brothers dewatered the excavation started yesterday from a sump pipe set just outside the foundation near the proposed building corner at A, 13. The water encountered appeared to be trapped precipitation rather than ground water and seepage slowed dramatically after approximately one hour of pumping. Subgrade at A, 13 was predominately blasted rock with some brown gravelly silty sand (glacial till) at outside edge of the proposed footing. The footings were over-excavated 1.5-feet in accordance with previously established protocols. The footing excavation at this point was low enough that all overlying fill soils were removed during excavation. Shaw Brothers is aware that as the excavation progresses south along A-line that unsuitable fill will likely extend below bottom of footing and require over-excavation. Some unsuitable fill soils were observed in the sidewall below the parking area and overlying a section of relic cast water line that remains in place. We understand Shaw Brothers will remove the relic utilities and remaining unsuitable soils prior to doing any grading in the building interior or excavation for interior footings. Shaw Brothers excavated along A-line between 13 and 11 and proof rolled the subgrade with a 12-ton vibratory roller, installed woven geo-textile fabric over soil subgrades and graded and compacted 12-inches of fine blast rock. At approximately 11-line the full footing width transitioned to brown gravelly silty sand (glacial till) at subgrade elevation. Provided the excavation continues to penetrate fill strata, it appears that Shaw Brothers will be able to cease the 1.5-foot over-excavation just past 11-line and will only need to remove 6-inches of material below the bottom of footing to allow for the installation of the geotextile fabric and ¾-inch crushed stone. In-situ density tests were performed on sidewall base material in front of Administrative Building 1 and found to be at a minimum of 95-percent compacted using a 138.5-pcf proctor value. It appears that some high rock remains in the vicinity of the elevator pit that will likely require additional blasting.

**On Site:** 6:30 to 4:00

**Attachments:** Photos

**Sheet:** 1 of 1

P:\2005\05-0927.4 M - Martin's Point Healthcare, Inc - Portland, ME - Martin's Point Healthcare Building & Parking Garage - RED\DFR's\DFR 7-10-09.doc

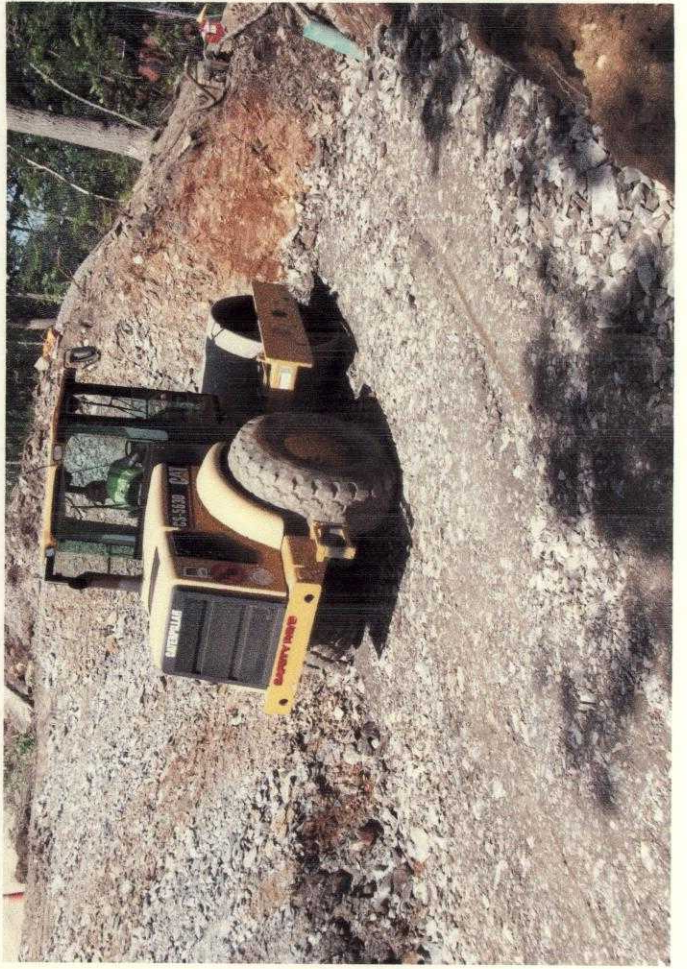
**SWC Rep.:** K. Gimpel

**Rev. by:** RED

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

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**DAILY CONSTRUCTION REPORT**

**Project:** Martin's Point Healthcare Building and Parking Garage

**SWCE Project No.:** 05-0927.4

**Client:** Martin's Point Healthcare

**Date:** 7-14-09

**Client's Rep.:** Gene Gilles

**Weather:** Sunny, 70's

Shaw Brothers continued excavation of A-line footings between 11 and 9. Native subgrade observed between 11 and 9 consisted of brown gravelly silty sand (glacial till) and bedrock. Excavation of soil was conducted with a smooth edged bucket, overlying fill soils were removed prior to reaching the required depth of 6-inches below bottom of footing elevation (31.84'-32.84'). Ground water and/or trapped precipitation was not encountered between 11 and 9, subgrade soils appeared to be damp however, dewatering was unnecessary. Bedrock outcrops extending from interior sections of the proposed building penetrated portions of the footing between 10 and 9. Maine drilling and blasting removed bedrock with a pneumatic rock hammer to 6-inches below bottom of footing. Loose rock debris was removed from the footing and subgrade proof rolled with a 12-ton vibratory roller. Woven geo-textile fabric and ¾-inch crushed stone was then compacted over subgrade between 11 and 9. We understand a small section of subgrade was excavated between 9 and 8.4 Lines after we left the site, approximately 1-foot of material was over excavated to approximate elevation 33.5'. John Allen of Shaw Brothers contacted SWCE to confirm that fine blast rock could be used as structural fill, we confirmed this and noted that the footing will need to be extended 1-foot laterally on each side.

**On Site:** 7:40 to 1:30

**Attachments:** Photos

**Sheet:** 1 of 1

**SWC Rep.:** P. Otto

**Rev. by:** RED











**DAILY CONSTRUCTION REPORT**

**Project:** Martin's Point Healthcare Building and Parking Garage

**SWCE Project No.:** 05-0927.4

**Client:** Martin's Point Healthcare

**Date:** 7-22-09

**Client's Rep.:** Gene Gilles

**Weather:** Overcast, 70's

**General Observations, Discussions, Etc:** We made a site visit for the purpose of observing subgrade conditions. It does not appear that much progress has been made to the footing excavation since our last visit on 7-14-09, due to the wide spread of high rock that is being encountered during excavation. Maine Drilling and Blasting was back on site with an excavator and a drill rig and was in the process of removing the high rock. We understand some of the lower blasting charges did not properly detonate. At the time of our visit, Shaw Brothers was in the process of extending D-line another 50-feet toward the elevator pit area. The work observed appears to be consistent with our recommendations. Some preexisting fill material was noted in the sidewall of the A-line excavation underlying the proposed parking area; most of the material appeared granular, but some organics were noted. We spoke with Shaw Brothers (John Allen) and indicated that this material would likely need to be removed. Tim Street requested a follow up visit on Friday to assure that subgrade observations remain ongoing.

**On Site:** 10:30 to 11:30

**Attachments:** Photos

**Sheet:** 1 of 1

**SWC Rep.:** K. Gimpel

**Rev. by:** RED

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GRAY, ME OFFICE

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

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





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

## DAILY CONSTRUCTION REPORT

**Project:** Martin's Point Healthcare Building and Parking Garage  
**Client:** Martin's Point Healthcare  
**Client's Rep.:** Gene Gilles

**SWCE Project No.:** 05-0927.4  
**Date:** 7-23-09  
**Weather:** Overcast, 70's

**General Observations, Discussions, Etc:** At the request of Pizzagalli we performed a site visit to discuss subgrade conditions and preparation with Shaw Brothers as field conditions change. We understand that Shaw Brothers is encountering high rock in many areas throughout the eastern half of the building and that Maine Drilling and Blasting is removing much of the high rock with a excavator mounted hoe ram. Shaw Brothers anticipates that unlike the western half of the building where fractured rock was found at subgrade that this half will have a combination of sound rock and fractured rock. We indicated that it would be acceptable to hammer sound rock to 6-inches below bottom of footing and replace with compacted ¾-inch crushed stone. The areas where subgrade conditions include fractured rock should still be over-excavated 18-inches in accordance with previously established procedures. In some areas it appears that Maine Drilling has been disturbing the fractured rock at subgrade in order to locate and remove blasting caps that did not detonate; in areas where the fractured rock has been disturbed to depths of greater than 18-inches we recommended to Shaw Brothers that the disturbed material be removed and replaced in compacted 1-foot lifts. Pizzagalli requested that a follow-up visit be made tomorrow to document D-line subgrade conditions.

**On Site:** 9:45 to 10:30  
**Attachments:** Photos  
**Sheet:** 1 of 1

**SWC Rep.:** K. Gimpel  
**Rev. by:**

A handwritten signature in black ink, appearing to read 'K. Gimpel', is written over the 'Rev. by:' label.

GRAY, ME OFFICE

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

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





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

### DAILY CONSTRUCTION REPORT

**Project:** Martin's Point Healthcare Building and Parking Garage

**SWCE Project No.:** 05-0927.4

**Client:** Martin's Point Healthcare

**Date:** 7-24-09

**Client's Rep.:** Gene Gilles

**Weather:** Heavy rain, 70.

**General Observations, Discussions, Etc:** At the time of our visit, Shaw Brothers had just completed compacting subgrade on D-line between the elevator pit to midway between 1 and 2-lines. As discussed yesterday, the excavation was generally 18-inches below bottom of footing with some sound rock protruding several inches higher. The area had been compacted and appeared to be tight with no excessive voids noted. We understand that once a lift of fine blast material has been graded and compacted, there will still be sufficient space for a minimum of 6-inches of ¾-inch stone. Work observed remains consistent with our expectations and recommendations for subgrade preparations. Installation of the foundation drain and placement of the initial lift of foundation backfill was also in progress between C and D-lines on 13-line and 13 to 10-line on D-line. The foundation drain was perforated SDR35 (holes down) surrounded with ¾-inch crushed stone enveloped with non-woven geotextile fabric. The gravel being used for foundation backfill appeared to contain a lot of 2 to 3-inch aggregate; we recommended to Pizzagalli that they consult the project structural to see if a material likely having a density of 140-pcf or more placed with heavy equipment fits in with their design assumptions behind concrete walls.

**On Site:** 8:30 to 9:45  
**Attachments:** Photos  
**Sheet:** 1 of 1

**SWC Rep.:** K. Gimpel  
**Rev. by:** RED

P:\2005\05-0927.4 M - Martin's Point Healthcare, Inc - Portland, ME - Martin's Point Healthcare Building & Parking Garage - RED\DFR's\DFR 7-24-09.doc

GRAY, ME OFFICE

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**DAILY CONSTRUCTION REPORT**

**Project:** Martin's Point Healthcare Building and Parking Garage

**SWCE Project No.:** 05-0927.4

**Client:** Martin's Point Healthcare

**Date:** 7-30-09

**Client's Rep.:** Gene Gilles

**Weather:** Periodic rain, 80.

**General Observations, Discussions, Etc:** As scheduled by Pizzagalli, we made two site visits today. During our first site visit, Shaw Brothers was primarily test pitting the proposed interior pier locations throughout the east half of the building to determine if any more high rock was present and to remove any blasting caps that did not detonate. We noted that Shaw Brothers had finished grading for footings between D, 1 and C,1 since our last visit. We understand that conditions encountered and procedures used were consistent with what was observed and established during previous site visits through this area. In addition to the progress on 1-line, another 60-feet of A-line east of the stair tower had been cut 18-inches below bottom of footing and built back up with 12-inches of blast material mixed with silty sand. The rock on A-line that had been blasted east of the stair tower was apparently shot with several feet of sandy overburden in place resulting in a blend of materials. The mixed material in place appeared to be an acceptable mix of rock and fines. We understand both sound rock and native soils were encountered at subgrade under the stair tower and that through this section Shaw Brothers placed geotextile fabric and a minimum of 6-inches of crushed stone. During our afternoon visit we observed excavation and subgrade preparation for the proposed pier at A, 5. This area was excavated 6-inches below bottom of footing and after compaction with a 12-ton vibratory roller brought back up with ¾-inch crushed stone overlying woven geotextile fabric. Subgrade soils near A, 5 generally consisted of sound rock with some pockets of dense till. We understand that excavation will resume early next week.

**On Site:** 8:45 to 9:15 and 2:00 to 4:00

**Attachments:** Photos

**Sheet:** 1 of 1

**SWC Rep.:** K. Gimpel

**Rev. by:** RED

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

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### DAILY CONSTRUCTION REPORT

**Project:** Martin's Point Healthcare Building and Parking Garage

**SWCE Project No.:** 05-0927.4

**Client:** Martin's Point Healthcare

**Date:** 8-3-09

**Client's Rep.:** Gene Gilles

**Weather:** Sunny, 80.

**General Observations, Discussions, Etc:** Shaw Brothers continued excavation and footing preparation on A-line working between 5 and 2-lines. Approximately 10-feet south of 3-line the soils encountered at subgrade transitioned from a combination of silty sand and fractured rock to stiff brown clay. Pocket penetrometer shear strengths of the clay were found to be around 7 ksf. When the clay was first encountered Shaw Brothers was able to flat dig with a toothed bucket to minimize disturbance, but we requested that they get a smooth edged bucket or weld a plate on their digging bucket prior to digging for the pier at A, 2. The section of footing prepared today was all excavated to a minimum of 6-inches below bottom of footing, compacted and covered with ¾-inch crushed stone overlying woven geotextile fabric. The few areas where rock was encountered at subgrade did not appear to require any additional over-excavation; the rock was weathered, but did appear to be over-blasted and no voids were noted. Any loose or over-size rocks pulled loose during excavation were removed and replaced with fine blast material. In a few areas Shaw Brothers removed more material than intended; these areas were compacted and shimmed to 6-inches below footing with fine blast material. Relic utilities found during excavation including a water line, sewer line and a drain line currently remain under the building pad; Shaw Brothers has marked their locations and we understand that they will be removed prior to excavating for interior footings.

**On Site:** 9:15 to 10:45 and 12:30 to 5:00

**Attachments:** Photos

**Sheet:** 1 of 1

**SWC Rep.:** K. Gimpel

**Rev. by:** RED

P:\2005\05-0927.4 M - Martin's Point Healthcare, Inc - Portland, ME - Martin's Point Healthcare Building & Parking Garage - RED\IDFR's\IDFR 8-3-09.doc

GRAY, ME OFFICE

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

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





## DAILY CONSTRUCTION REPORT

**Project:** Martin's Point Healthcare Building and Parking Garage

**Client:** Martin's Point Healthcare

**Client's Rep.:** Gene Gilles

**SWCE Project No.:** 05-0927.4

**Date:** 8-4-09

**Weather:** Sunny, 80.

**General Observations, Discussions, Etc:** Shaw Brothers finished excavation for the exterior foundations. We observed the excavation and preparation between columns 2 and 1 on A-line and between A and midway between B and C on 1-line. As recommended yesterday, Shaw Brothers welded a plate on their digging bucket to help minimize disturbance of the stiff native clays at subgrade on A-line. The 7 to 8 ksf clay that was first noted between 2 and 3-lines yesterday transitioned to light brown silty sand with cobbles just west of 2-line. Approximately 15-feet north of A,1 subgrade transitioned to rock. The rock along the mid portion of 1-line had been blasted but reportedly with a light charge due to the proximity of surrounding structures; the rock did not appear to be over-blasted. In this area, we recommended excavating to 6-inches below bottom of footing (pulling out any loose oversized material while digging and raking rock fines across the surface), compacting subgrade with the large vibratory roller and grading ¾-inch crushed stone. The clayey areas were overlaid with woven geotextile fabric and a minimum of 6-inches of compacted ¾-inch crushed stone. The procedures used where silty sand was encountered were similar to the clay areas, but subgrade was compacted with a 12-ton vibratory roller prior to placing fabric and crushed stone. All excavations continue to be laterally over-sized approximately 2-feet beyond edge of footing. On either side of the elevator pit on D-line we discussed with Pizzagalli that consideration of using lean concrete or flowable fill rather than conventional backfill due to limited access for compaction equipment as a result of reinforcing splice lengths. We understand that Pizzagalli will schedule us to perform additional subgrade observations when excavation for interior footings starts.

**On Site:** 7:15 to 9:00, 10:15 to 2:15 and 3:45 to 5:00

**Attachments:** Photos

**Sheet:** 1 of 1

**SWC Rep.:** K. Gimpel

**Rev. by:** RED











**DAILY CONSTRUCTION REPORT**

**Project:** Martin's Point Healthcare Building and Parking Garage

**SWCE Project No.:** 05-0927.4

**Client:** Martin's Point Healthcare

**Date:** 9-23-09

**Client's Rep.:** Gene Gilles

**Weather:** Sunny, 60 - 80.

**General Observations, Discussions, Etc:** The purpose of our visit was to observe subgrade preparation and conditions on interior footings. We observed as Shaw Brothers excavated for shear wall and footings at B5 and C5. At proposed subgrade a combination of sound bedrock and fractured intact bedrock was observed. Shaw Brothers over-excavated an additional 18-inches where fractured rock was encountered and compacted the exposed fractured material with a 12-ton vibratory drum roller (Caterpillar CS563). No excessive voids or large loose rocks were noted. Finer blast material was placed to approximately 6-inches below proposed bottom of footings and densified with the large vibratory drum roller. The excavation was then brought up to grade with compacted ¾-inch crushed stone.

**On Site:** 8:00 – 8:30  
**Attachments:** Photos  
**Sheet:** 1 of 1

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



**Tab 6**



# Report of Field Density ASTM D6938

Project: PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE -  
MATERIALS TESTING AND SPECIAL INSPECTION SERVICES

Project Number: 05-0927.4

Client: MARTIN'S POINT HEALTHCARE

## 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	5/27/2009	VLT	15' SW OF CB 1A	-3" BFG	12	10728G	139.1	1.6	100.4	95
2	5/27/2009	VLT	70' NE OF CB 1A	-2' BFG	12	10883G	108.6	5.0	97.4	95
3	5/27/2009	VLT	45' NE OF CB 1A	-1 BFG	12	10883G	106.8	6.3	95.8	95

## Laboratory Compaction Test Reference

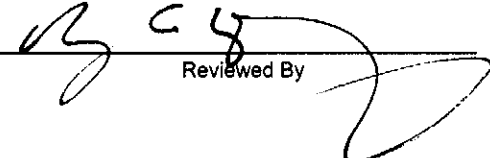
Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
10728G	5/8/2009	Brickyard Quarry	Aggregate Subbase	ASTM D-1557 Modified C	138.5	5.8	
10883G	5/28/2009	Onsite	Common Borrow	ASTM D-1557 Modified A	111.5	12.2	

**Elevation Notes:**

BFG- BELOW FINISH GRADE

**Comments:**

CB- CATCH BASIN

  
 Reviewed By

# Report of Field Density

## ASTM D6938

 Project: PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE -  
 MATERIALS TESTING AND SPECIAL INSPECTION SERVICES

Project Number: 05-0927.4

Client: MARTIN'S POINT HEALTHCARE

### Field Density Test Results

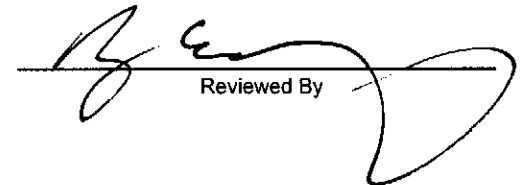
Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
4	6/3/2009	SJC	N SIDE ADMIN 1 + 20'	FG	12	10727G	140.2	2.1	99.5	95
5	6/3/2009	SJC	N SIDE ADMIN 2 + 20'	FG	12	10727G	137.4	1.8	97.5	95
6	6/3/2009	SJC	N SIDE MARINE HOSP PARKING LOT	SUB	12	10727G	125.2	4.5	88.9	95

### Laboratory Compaction Test Reference

Date	Lab ID	Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
5/8/2009	10727G		H-Pit	Aggregate Base	ASTM D-1557 Modified C	140.9	4.9	

**Elevation Notes:**

 FG- FINISH GRADE  
 SUB- SUBGRADE

**Comments:**

 Reviewed By

# Report of Field Density

## ASTM D6938

 Project: **PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE - MATERIALS TESTING AND SPECIAL INSPECTION SERVICES**

 Project Number: **05-0927.4**

 Client: **MARTIN'S POINT HEALTHCARE**

### 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
7	6/26/2009	SJC	+ 20' E OF CARRIAGE HOUSE	35'	12	10728G	134.8	4.3	97.3	95
8	6/26/2009	SJC	+ 10' NE OF CARRIAGE HOUSE	34'	10	10728G	133.1	4.0	96.1	95
9	6/26/2009	SJC	+ 10' N OF CARRIAGE HOUSE	32'	12	10728G	139.0	3.1	100.4	95
10	6/26/2009	SJC	+ 100' E OF CARRIAGE HOUSE	35'	12	10728G	142.7	1.7	103.0	95
11	6/26/2009	SJC	+ 100' SE OF CARRIAGE HOUSE	36'	12	10728G	138.7	2.4	100.1	95
12	6/26/2009	SJC	+ 20' N OF ADMIN 2 & 3	38	12	10728G	134.2	2.3	96.9	95

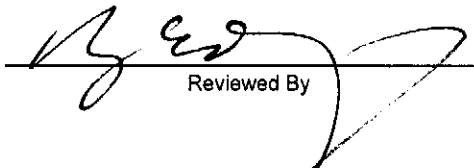
### Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
10728G	5/8/2009	Brickyard Quarry	Aggregate Subbase	ASTM D-1557 Modified C	138.5	5.8	

Elevation Notes:

Comments:

 NE - NORTH EAST  
 SE - SOUTH EAST


  
 Reviewed By



# Report of Field Density ASTM D6938

Project: PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE -  
MATERIALS TESTING AND SPECIAL INSPECTION SERVICES

Project Number: 05-0927.4

Client: MARTIN'S POINT HEALTHCARE

## Field Density Test Results

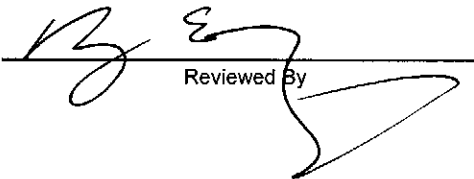
Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
13	7/10/2009	KBG	SIDEWALK IN FRONT OF ADMIN 1	FB	12	10728G	133.9	5.4	96.7	95
14	7/10/2009	KBG	SIDEWALK IN FRONT OF ADMIN 1	FB	12	10728G	138.4	3.7	99.9	95
15	7/10/2009	KBG	SIDEWALK IN FRONT OF ADMIN 1	FB	12	10728G	139.5	3.4	100.7	95
16	7/10/2009	KBG	SIDEWALK IN FRONT OF ADMIN 1	FB	12	10728G	133.0	4.2	96.0	95

## Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
10728G	5/8/2009	Brickyard Quarry	Aggregate Subbase	ASTM D-1557 Modified C	138.5	5.8	

**Elevation Notes:**  
FB- FINISH BASE

**Comments:**

  
 \_\_\_\_\_  
 Reviewed By





# Report of Field Density ASTM D6938

Project: PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE -  
MATERIALS TESTING AND SPECIAL INSPECTION SERVICES

Project Number: 05-0927.4

Client: MARTIN'S POINT HEALTHCARE

## 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
17	8/18/2009	VLT	MAIN ENTRANCE ACCESS ROAD	-4" BFG	10	10726G	142.0	3.7	98.1	95
18	8/18/2009	VLT	MAIN ENTRANCE ACCESS ROAD	-4" BFG	10	10726G	141.2	2.4	97.5	95

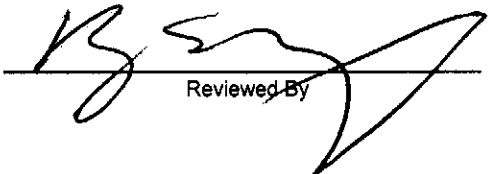
## Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
10726G	5/8/2009	Brickyard Quarry	Granular Borrow	ASTM D-1557 Modified C	144.8	4.7	

**Elevation Notes:**

BFG- BELOW FINISH GRADE

**Comments:**

  
 \_\_\_\_\_  
 Reviewed By

# Report of Field Density

## ASTM D6938

 Project: **PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE - MATERIALS TESTING AND SPECIAL INSPECTION SERVICES**

 Project Number: **05-0927.4**

 Client: **MARTIN'S POINT HEALTHCARE**

### 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
19	8/19/2009	VLT	1' N 20' E OF INT LINE D + 13	76	6	10887G	137.2	1.5	98.8	95
20	8/19/2009	VLT	15' S 2' W OF INT LINE D + 13	79	10	10887G	134.0	2.4	96.5	95
21	8/19/2009	VLT	40' S 2' W OF INT LINE D + 13	81	12	10887G	134.9	2.3	97.1	95
22	8/19/2009	VLT	45' S 12' W OF INT LINE D + 13	81	12	10726G	140.3	2.9	96.9	95

### Laboratory Compaction Test Reference

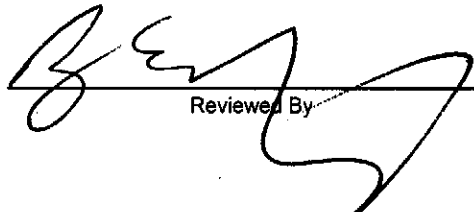
Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
10726G	5/8/2009	Brickyard Quarry	Granular Borrow	ASTM D-1557 Modified C	144.8	4.7	
10887G	5/28/2009	Brickyard Quarry	Structural Fill	ASTM D-1557 Modified C	138.9	4.7	

**Elevation Notes:**

ALL ELEVATIONS ARE +/-

**Comments:**

INT- INTERSECTION


  
 Reviewed By



# Report of Field Density ASTM D6938

Project: PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE -  
MATERIALS TESTING AND SPECIAL INSPECTION SERVICES

Project Number: 05-0927.4

Client: MARTIN'S POINT HEALTHCARE

## 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
23	8/20/2009	VLT	50' S 1' W OF INT D + 13	82	12	10887G	133.3	1.6	96.0	95
24	8/20/2009	VLT	40' S 10' W OF INT D + 13	82	12	10726G	140.1	2.2	96.8	95

## Laboratory Compaction Test Reference

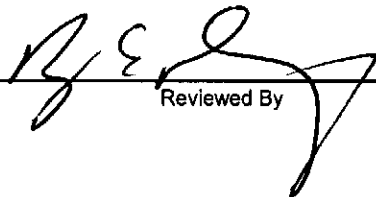
Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
10726G	5/8/2009	Brickyard Quarry	Granular Borrow	ASTM D-1557 Modified C	144.8	4.7	
10887G	5/28/2009	Brickyard Quarry	Structural Fill	ASTM D-1557 Modified C	138.9	4.7	

**Elevation Notes:**

ALL ELEVATIONS ARE +/-

**Comments:**

INT - INTERSECTION

  
 \_\_\_\_\_  
 Reviewed By

# Report of Field Density

## ASTM D6938

 Project: **PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE - MATERIALS TESTING AND SPECIAL INSPECTION SERVICES**

 Project Number: **05-0927.4**

 Client: **MARTIN'S POINT HEALTHCARE**

### 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
25	8/26/2009	VLT	1' W OF INT LINE D + 7	80	12	10887G	128.6	2.5	92.6	95
26	8/26/2009	VLT	1' W OF INT D + 7	80	10	10887G	140.4	3.8	101.1	95
27	8/26/2009	VLT	+10' W OF INT D + 5	80	10	10726G	138.2	2.4	95.4	95
28	8/26/2009	VLT	+10' W OF INT D + 7	80	10	10726G	147.6	2.2	101.9	95
29	8/26/2009	VLT	1' W OF INT D + 5	80	10	10887G	137.9	3.2	99.3	95

### Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
10726G	5/8/2009	Brickyard Quarry	Granular Borrow	ASTM D-1557 Modified C	144.8	4.7	
10887G	5/28/2009	Brickyard Quarry	Structural Fill	ASTM D-1557 Modified C	138.9	4.7	

**Elevation Notes:**

ALL ELEVATIONS ARE +/-

**Comments:**

INT - INTERSECTION


 Reviewed By

# Report of Field Density

## ASTM D6938

 Project: **PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE - MATERIALS TESTING AND SPECIAL INSPECTION SERVICES**

 Project Number: **05-0927.4**

 Client: **MARTIN'S POINT HEALTHCARE**

### 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
30	9/1/2009	VLT	SIDEWALK NORTH OF CLINIC ACCESS ROAD	-2" BFG	10	10728G	139.6	2.6	100.8	95
31	9/1/2009	VLT	SIDEWALK NORTH OF CLINIC ACCESS ROAD	-2" BFG	10	10728G	132.8	2.1	95.9	95
32	9/1/2009	VLT	SIDEWALK LEADING TO CLINIC MAIN ENTRANCE	-2" BFG	10	10728G	137.5	2.8	99.3	95
33	9/1/2009	VLT	SIDEWALK NORTH OF MAIN ENTRANCE ROAD	-2" BFG	10	10728G	132.3	2.3	95.5	95
34	9/1/2009	VLT	SIDEWALK SOUTH OF MAIN ENTRANCE ROAD	-2" BFG	10	10728G	133.0	3.2	96.0	95

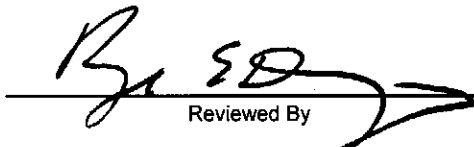
### Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
10728G	5/8/2009	Brickyard Quarry	Aggregate Subbase	ASTM D-1557 Modified C	138.5	5.8	

**Elevation Notes:**

BFG- BELOW FINISH GRADE

**Comments:**

  
 Reviewed By

# Report of Field Density

## ASTM D6938

 Project: PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE -  
 MATERIALS TESTING AND SPECIAL INSPECTION SERVICES

Project Number: 05-0927.4

Client: MARTIN'S POINT HEALTHCARE

### 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
35	9/4/2009	VLT	8' W OF INT A + 11	68.5	8	10726G	138.4	1.8	95.6	95
36	9/4/2009	VLT	1' W OF INT A + 11	69	8	10887G	136.8	2.0	98.5	95
37	9/4/2009	VLT	1' W OF INT A + 12	68	8	10887G	138.5	1.6	99.7	95
38	9/4/2009	VLT	8' W OF INT A + 12.5	67	10	10726G	138.8	1.9	95.9	95

### Laboratory Compaction Test Reference

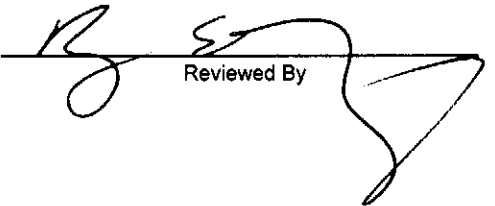
Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
10726G	5/8/2009	Brickyard Quarry	Granular Borrow	ASTM D-1557 Modified C	144.8	4.7	
10887G	5/28/2009	Brickyard Quarry	Structural Fill	ASTM D-1557 Modified C	138.9	4.7	

**Elevation Notes:**

ALL ELEVATIONS ARE +/-

**Comments:**

INT- INTERSECTION


 Reviewed By



# Report of Field Density ASTM D6938

Project: PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE -  
MATERIALS TESTING AND SPECIAL INSPECTION SERVICES

Project Number: 05-0927.4

Client: MARTIN'S POINT HEALTHCARE

## Field Density Test Results

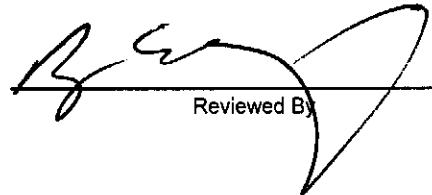
Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
39	9/15/2009	VLT	1' W OF INT LINE A + 10.5	73.5	12	10887G	134.4	1.7	96.8	95
40	9/15/2009	VLT	1' W OF INT LINE A + 9.5	73.5	12	10887G	132.5	2.6	95.4	95

## Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
10887G	5/28/2009	Brickyard Quarry	Structural Fill	ASTM D-1557 Modified C	138.9	4.7	

**Elevation Notes:**  
Elevations are +/-

**Comments:**  
INT - INTERSECTION

  
 \_\_\_\_\_  
 Reviewed By



# Report of Field Density

## ASTM D6938

Project: PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE -  
MATERIALS TESTING AND SPECIAL INSPECTION SERVICES

Project Number: 05-0927.4

Client: MARTIN'S POINT HEALTHCARE

### 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
41	9/29/2009	VLT	2' W OF INT LINE A + 7	-5'	12	10887G	135.0	2.6	97.2	95
42	9/29/2009	VLT	1' W OF INT LINE A + 9	-3'	10	10887G	134.4	4.0	96.8	95
43	9/29/2009	VLT	1' E OF INT LINE B + 5	FE	10	10887G	135.9	4.7	97.8	95
44	9/29/2009	VLT	1' S OF INT LINE C + 7	1' BFE	10	10887G	139.1	4.1	100.1	95

### Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
10887G	5/28/2009	Brickyard Quarry	Structural Fill	ASTM D-1557 Modified C	138.9	4.7	

**Elevation Notes:**

BTOW - BELOW TOP OF WALL  
FE- FOOTING ELEVATION  
BFE - BELOW FOOTING ELEVATION

**Comments:**

INT - INTERSECTION

*Roger E. Deming*

\_\_\_\_\_  
Reviewed By





# Report of Field Density ASTM D6938

Project: **PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE - MATERIALS TESTING AND SPECIAL INSPECTION SERVICES**

Project Number: **05-0927.4**

Client: **MARTIN'S POINT HEALTHCARE**

## 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
45	10/2/2009	VLT	1' E 3' S OF INT LINE A + 13	-9'	12	10887G	137.3	4.2	98.8	95
				BTOW						
46	10/2/2009	VLT	1' E 2' S OF INT LINE A + 7	-6'	12	10887G	136.6	2.9	98.3	95
				BTOW						

## Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
10887G	5/28/2009	Brickyard Quarry	Structural Fill	ASTM D-1557 Modified C	138.9	4.7	

**Elevation Notes:**  
BTOW - BELOW TOP OF WALL

**Comments:**  
INT - INTERSECTION

*Roger E. Demery*

\_\_\_\_\_  
Reviewed By



# Report of Field Density ASTM D6938

Project: PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE -  
MATERIALS TESTING AND SPECIAL INSPECTION SERVICES

Project Number: 05-0927.4

Client: MARTIN'S POINT HEALTHCARE

## 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
47	10/5/2009	VLT	INT 3.5 + C	FE	12	10726G	142.4	5.4	98.3	95
48	10/5/2009	VLT	INT C.5 + 4	FE	12	10726G	138.6	6.3	95.7	95
49	10/5/2009	VLT	INT C.5 + 7	FE	12	10726G	145.8	3.7	100.7	95
50	10/5/2009	VLT	INT 11.5 + C	FE	10	10726G	139.6	3.7	96.4	95
51	10/5/2009	VLT	8' NW OF INT C + 12	FE	10	10726G	139.9	5.3	96.6	95

## Laboratory Compaction Test Reference

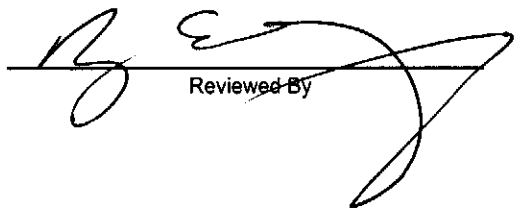
Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
10726G	5/8/2009	Brickyard Quarry	Granular Borrow	ASTM D-1557 Modified C	144.8	4.7	

**Elevation Notes:**

FE- INTERIOE SPREAD FOOTING ELEVATION

**Comments:**

INT - INTERSECTION

  
 Reviewed By



# Report of Field Density ASTM D6938

Project: PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE -  
MATERIALS TESTING AND SPECIAL INSPECTION SERVICES

Project Number: 05-0927.4

Client: MARTIN'S POINT HEALTHCARE

## Field Density Test Results

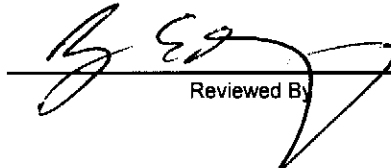
Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
52	12/11/2009	VLT	STA 1 + 00 +/- 10' W OF RTW	39	10	10887G	133.7	3.1	96.3	95
53	12/11/2009	VLT	STA 1 + 15 +/- 10' W OF RTW	40	10	10887G	132.2	3.6	95.2	95

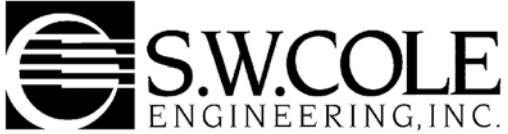
## Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
10887G	5/28/2009	Brickyard Quarry	Structural Fill	ASTM D-1557 Modified C	138.9	4.7	

**Elevation Notes:**  
ALL ELEVATIONS ARE +/-

**Comments:**  
STA- STATION  
RTW- RETAINING WALL

  
 \_\_\_\_\_  
 Reviewed By



# Report of Field Density ASTM D6938

Project: PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE -  
MATERIALS TESTING AND SPECIAL INSPECTION SERVICES

Project Number: 05-0927.4

Client: MARTIN'S POINT HEALTHCARE

## 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
54	12/16/2009	VLT	STA 0 + 95 10' W OF RTW	44.67	10	10887G	136.5	2.5	98.3	95
55	12/16/2009	VLT	STA 0 + 45 10' W OF RTW	44.67	10	10887G	133.2	2.1	95.9	95

## Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
10887G	5/28/2009	Brickyard Quarry	Structural Fill	ASTM D-1557 Modified C	138.9	4.7	

**Elevation Notes:**

**Comments:**  
STA- STATION  
RTW - RETAINING WALL

*Roger E. Downey*

\_\_\_\_\_  
Reviewed By



# Report of Field Density

## ASTM D6938

Project: PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE -  
MATERIALS TESTING AND SPECIAL INSPECTION SERVICES

Project Number: 05-0927.4

Client: MARTIN'S POINT HEALTHCARE

### 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
56	5/18/2010	VLT	10' E OF INT LINE B + 4	-3" BFG	12	10728G	140.7	1.8	101.6	95
57	5/18/2010	VLT	2' N 15' W OF INT LINE C + 4	-3" BFG	12	10728G	139.3	1.4	100.6	95
58	5/18/2010	VLT	20' S 15' E OF INT LINE C + 8	-3" BFG	12	10728G	139.4	1.0	100.6	95
59	5/18/2010	VLT	5' N 35' E OF INT LINE B + 10	-3" BFG	12	10728G	139.3	1.1	100.6	95
60	5/18/2010	VLT	20' W OF INT LINE B + 11.5	-3" BFG	12	10728G	140.8	1.6	101.7	95
61	5/18/2010	VLT	10' S 15' E OF INT 11.5 + B.5	-3" BFG	12	10728G	141.0	1.1	101.8	95

### Laboratory Compaction Test Reference

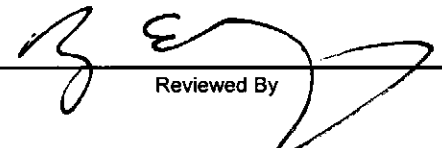
Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
10728G	5/8/2009	Brickyard Quarry	Aggregate Subbase	ASTM D-1557 Modified C	138.5	5.8	

**Elevation Notes:**

BFG - BELOW FINISH GRADE

**Comments:**

INT - INTERSECTION

  
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 Reviewed By

**Tab 7**

## Concrete Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	7-21-09
<b>Concrete Contractor:</b>	Newman Concrete	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Slab on grade: line CC to TT, line 17 to 26	<b>SWCE Rep.:</b>	VLТ
<b>Placement Type:</b>	Footing <input checked="" type="checkbox"/> Wall <input type="checkbox"/> Column <input type="checkbox"/> Slab <input type="checkbox"/> Other <input type="checkbox"/>	<b>Arrived at Site:</b>	9:30am
		<b>Left Site:</b>	3:00pm

<u>PRE PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>	<u>N/O</u>	<u>Comments</u>
Bar Size (diameter, length, bend and anchorage)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	See notes
Location (# of bars, spacing, and cover)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Splicing (weld joint, overlap)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	As required
Stability (wiring, chairs, and spacers)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	See notes
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Reinforcement appears in conformance to specifications	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Soil subgrade prepared in accordance with project specifications	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	6" of 3/4" crushed stone

<u>Referenced Drawings</u>	<u>Date</u>	<u>Page</u>	<u>Rev.</u>	<u>ASTM</u>	<u>GRADE</u>
Barker	7/2/09	RO4		A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
SMRT		SB101		A 616 <input type="checkbox"/>	75 <input type="checkbox"/>
				A 617 <input type="checkbox"/>	
				A 706 <input type="checkbox"/>	6"x6" WWF <input type="checkbox"/>

<u>CONCRETE PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>	<u>N/O</u>	<u>Comments</u>
Required mix used	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	4000psi, 3/4"w/ MRWR
Placement and consolidation of concrete observed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	Pump
Depth of layer maximum limits not exceeded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	As required
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	As required
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Removal of temporary ties and spacers	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	N/A

<u>FIELD TESTING OF CONCRETE PERFORMED</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
*CYLINDER SET NO: 984 1 to 3	←*refer to associated concrete test report

<u>POST PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>	<u>N/O</u>	<u>Comments</u>
Specified finish	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	w/ Mechanical Screed
Protection of surfaces from cracking due to rapid drying	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input checked="" type="checkbox"/>	
Proper curing procedures implemented	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input checked="" type="checkbox"/>	

<u>NON-CONFORMANCE ITEMS OBSERVED</u>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Non-Conformance Item Description:	
Action Taken by SWCE:	
Persons Notified:	

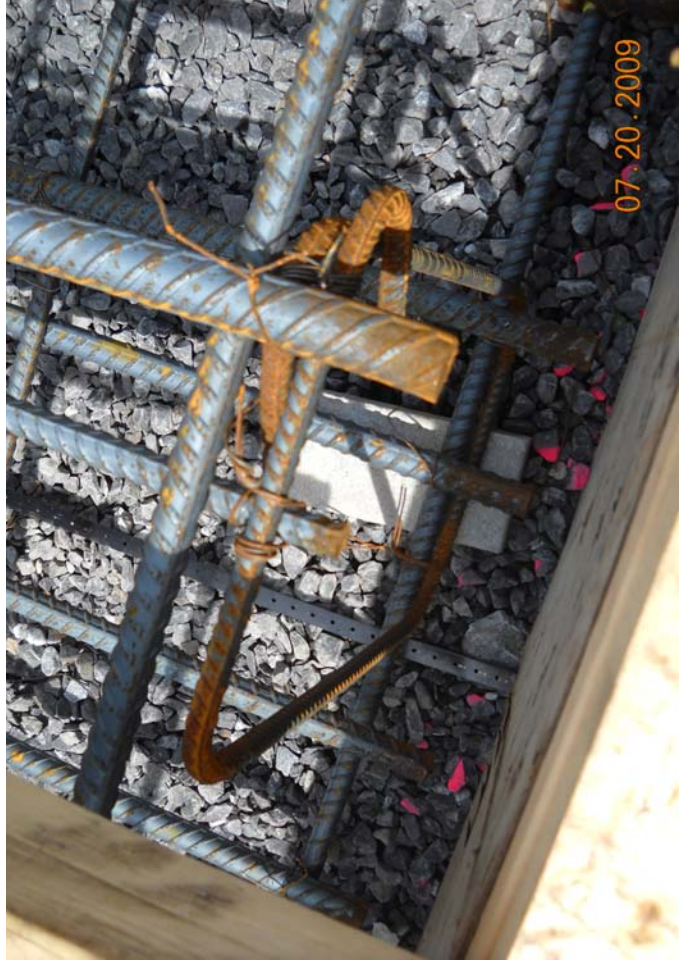
**Notes:**

SWCE inspected rebar 7/20/09. Pizzagalli advised SWCE of approved engineering changes to width of footing from 9'6" to 13'6". SWCE advised Jared w/ Pizzagalli and Shannon w/ Newman of discrepancy between design and installed standees and support bars at line D: #4 hoops used in place of #5 standees, # 5 supports installed in place of #8 supports. Mike Kendall and Shannon w/ Newman identified 2 canopy columns on line D for which rebar had not been installed prior to placement. Rebar installed as designed at this location prior to placement of concrete. SWCE confirmed with Newman Conc. prior to placement that design mix changed from 3000psi to 4000psi for footings. SWCE concrete tests results were within specifications.

Attachments: Photos

Reviewed By:

R6D







# Concrete Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	7-30-09
<b>Concrete Contractor:</b>	Newman Concrete	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Footing: line D, 10 to 7	<b>SWCE Rep.:</b>	VLТ
<b>Placement Type:</b>	Footing <input checked="" type="checkbox"/> Wall <input type="checkbox"/> Column <input type="checkbox"/> Slab <input type="checkbox"/> Other <input type="checkbox"/>	<b>Arrived at Site:</b>	8:30am
		<b>Left Site:</b>	12:30pm

<u>PRE PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Bar Size (diameter, length, bend and anchorage)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Location (# of bars, spacing, and cover)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Splicing (weld joint, overlap)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	As required
Stability (wiring, chairs, and spacers)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	As required
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Reinforcement appears in conformance to specifications	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Soil subgrade prepared in accordance with project specifications	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	6" of ¾" crushed stone

<u>Referenced Drawings</u>	<u>Date</u>	<u>Page</u>	<u>Rev.</u>	<u>ASTM</u>	<u>GRADE</u>
Barker	7/2/09	RO4		A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
				A 616 <input type="checkbox"/>	75 <input type="checkbox"/>
				A 617 <input type="checkbox"/>	
				A 706 <input type="checkbox"/>	6"x6" WWF <input type="checkbox"/>

<u>CONCRETE PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Required mix used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	4000psi, ¾" w/ MRWR
Placement and consolidation of concrete observed	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Conveyor
Depth of layer maximum limits not exceeded	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	As required
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	As required
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Removal of temporary ties and spacers	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	As concrete placed

**FIELD TESTING OF CONCRETE PERFORMED** Yes  No   
**\*CYLINDER SET NO:** 984 – 4, 5 & 6 ←\*refer to associated concrete test report

<u>POST PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Specified finish	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	w/ Trowel
Protection of surfaces from cracking due to rapid drying	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	
Proper curing procedures implemented	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	

**NON-CONFORMANCE ITEMS OBSERVED** Yes  No

Non-Conformance Item Description:  
 Action Taken by SWCE:  
 Persons Notified:

**Notes:**  
 SWCE concrete tests results were within specifications.





# Concrete Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	7-31-09
<b>Concrete Contractor:</b>	Newman Concrete	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Wall: line D, 13 to 10 to elevation 84'	<b>SWCE Rep.:</b>	VLT
<b>Placement Type:</b>	Footing <input type="checkbox"/> Wall <input checked="" type="checkbox"/> Column <input type="checkbox"/> Slab <input type="checkbox"/> Other <input type="checkbox"/>	<b>Arrived at Site:</b>	8:30am
		<b>Left Site:</b>	1:00pm

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

<u>Referenced Drawings</u>	<u>Date</u>	<u>Page</u>	<u>Rev.</u>	<u>ASTM</u>	<u>GRADE</u>
Barker	7/2/09	RO4		A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
				A 616 <input type="checkbox"/>	75 <input type="checkbox"/>
				A 617 <input type="checkbox"/>	
				A 706 <input type="checkbox"/>	6"x6" WWF <input type="checkbox"/>

<u>CONCRETE PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Required mix used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	4000psi, 3/4"w/ MRWR
Placement and consolidation of concrete observed	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Conveyor
Depth of layer maximum limits not exceeded	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	As required
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	As required
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Removal of temporary ties and spacers	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	N/A

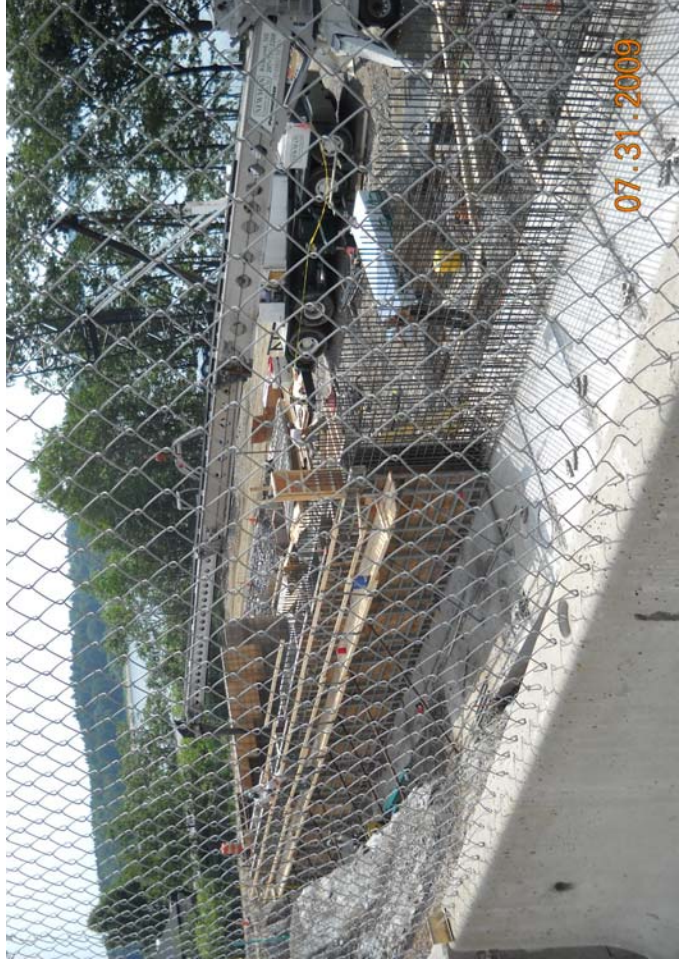
**FIELD TESTING OF CONCRETE PERFORMED** Yes  No   
 \*CYLINDER SET NO: 984 - 7 ←\*refer to associated concrete test report

<u>POST PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Specified finish	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	w/ Trowel
Protection of surfaces from cracking due to rapid drying	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	
Proper curing procedures implemented	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	

**NON-CONFORMANCE ITEMS OBSERVED** Yes  No

Non-Conformance Item Description:  
 Action Taken by SWCE:  
 Persons Notified:

**Notes:**  
 Rebar appeared to be installed as required. Water stop placed inside wall at top of footing. SWCE concrete tests results were within specifications.





# Concrete Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	8-3-09
<b>Concrete Contractor:</b>	Newman Concrete	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Footing: line A 13 to 9	<b>SWCE Rep.:</b>	VLT
<b>Placement Type:</b>	Footing <input checked="" type="checkbox"/> Wall <input type="checkbox"/> Column <input type="checkbox"/> Slab <input type="checkbox"/> Other <input type="checkbox"/>	<b>Arrived at Site:</b>	9:15am
		<b>Left Site:</b>	1:00pm

<u>PRE PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Bar Size (diameter, length, bend and anchorage)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Location (# of bars, spacing, and cover)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Splicing (weld joint, overlap)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	As required
Stability (wiring, chairs, and spacers)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	See notes
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Reinforcement appears in conformance to specifications	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Soil subgrade prepared in accordance with project specifications	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	6" of ¾" crushed stone

<u>Referenced Drawings</u>	<u>Date</u>	<u>Page</u>	<u>Rev.</u>	<u>ASTM</u>	<u>GRADE</u>
Barker	7/20/09	RO8		A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
				A 616 <input type="checkbox"/>	75 <input type="checkbox"/>
				A 617 <input type="checkbox"/>	
				A 706 <input type="checkbox"/>	6"x6" WWF <input type="checkbox"/>

<u>CONCRETE PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Required mix used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	4000psi, ¾" w/ MRWR
Placement and consolidation of concrete observed	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Conveyor
Depth of layer maximum limits not exceeded	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	As required
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	As required
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Removal of temporary ties and spacers	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	N/A

**FIELD TESTING OF CONCRETE PERFORMED** Yes  No   
 \*CYLINDER SET NO: 984 - 8 & 9 ←\*refer to associated concrete test report

<u>POST PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Specified finish	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	w/ Trowel
Protection of surfaces from cracking due to rapid drying	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	
Proper curing procedures implemented	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	

**NON-CONFORMANCE ITEMS OBSERVED** Yes  No

Non-Conformance Item Description:  
 Action Taken by SWCE:  
 Persons Notified:

**Notes:**  
 Rebar appeared to be installed as required. SWCE advised Pizzagalli and Newman of clearance issue at intersection of line A and 11. Newman Concrete placed extra concrete blocks to create space prior to placement. SWCE advised Pizzagalli of an approximate 1' space between rebar and form at near face line A from 11 to 9. Rebar drawing approved by engineer after rebar installed by Newman Concrete. SWCE concrete tests results were within specifications.



## Concrete Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	8-4-09
<b>Concrete Contractor:</b>	Newman Concrete	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Wall: line D 13 to 12, line 13 D to C.3. Footing: @ elevator pit.	<b>SWCE Rep.:</b>	VLT
<b>Placement Type:</b>	Footing <input checked="" type="checkbox"/> Wall <input checked="" type="checkbox"/> Column <input type="checkbox"/> Slab <input type="checkbox"/> Other <input type="checkbox"/>	<b>Arrived at Site:</b>	12:30am
		<b>Left Site:</b>	4:30pm

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

<u>Referenced Drawings</u>	<u>Date</u>	<u>Page</u>	<u>Rev.</u>	<u>ASTM</u>	<u>GRADE</u>
Barker	7/20/09	RO7 & R08		A 615 <input checked="" type="checkbox"/> A 616 <input type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
Barker	7/20/09	RO8		A 617 <input type="checkbox"/> A 706 <input type="checkbox"/>	75 <input type="checkbox"/> 6"x6" WWF <input type="checkbox"/>
SMRT		SI-16	A-9		

<u>CONCRETE PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>	<u>N/O</u>	<u>Comments</u>
Required mix used	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	4000psi, 3/4"w/ MRWR
Placement and consolidation of concrete observed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	Conveyor
Depth of layer maximum limits not exceeded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	As required
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	As required
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Removal of temporary ties and spacers	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	N/A

**FIELD TESTING OF CONCRETE PERFORMED**      Yes  No

\*CYLINDER SET NO:      984 10      ←\*refer to associated concrete test report

<u>POST PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>	<u>N/O</u>	<u>Comments</u>
Specified finish	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	w/ Trowel
Protection of surfaces from cracking due to rapid drying	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input checked="" type="checkbox"/>	
Proper curing procedures implemented	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input checked="" type="checkbox"/>	

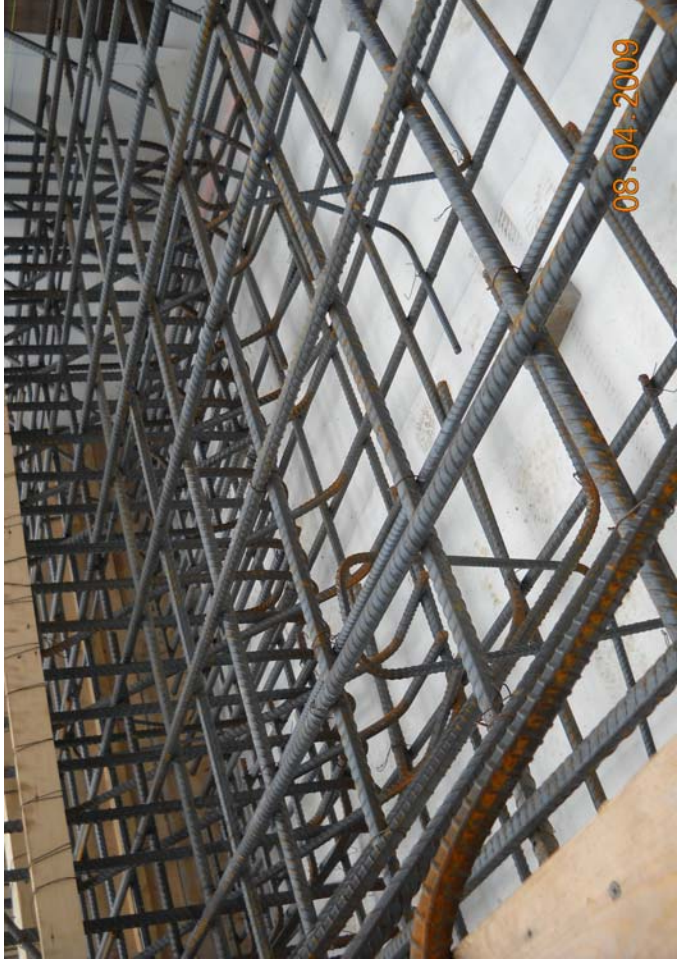
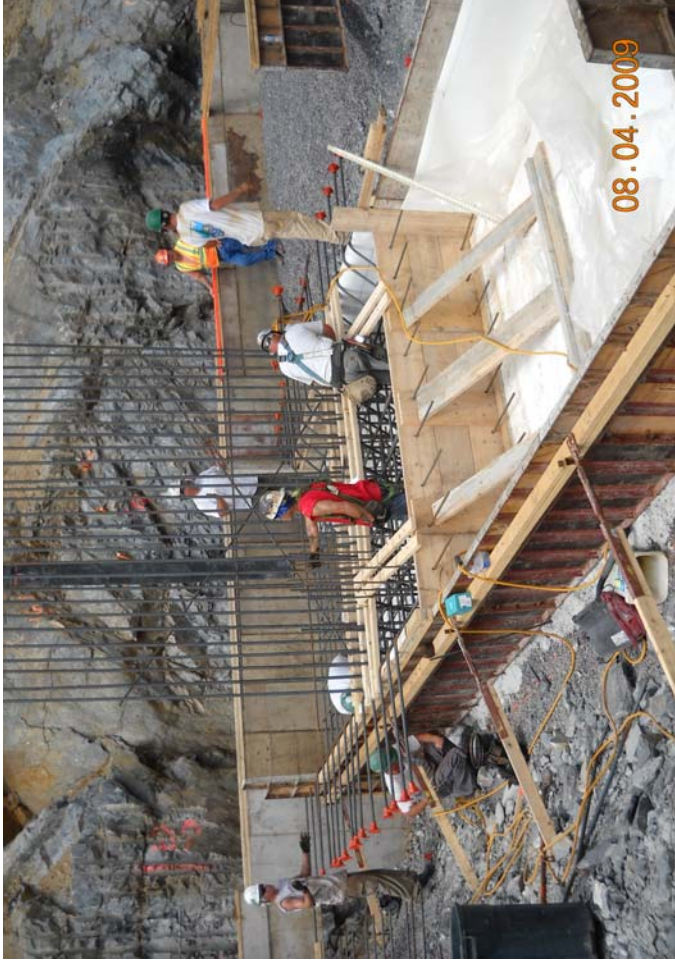
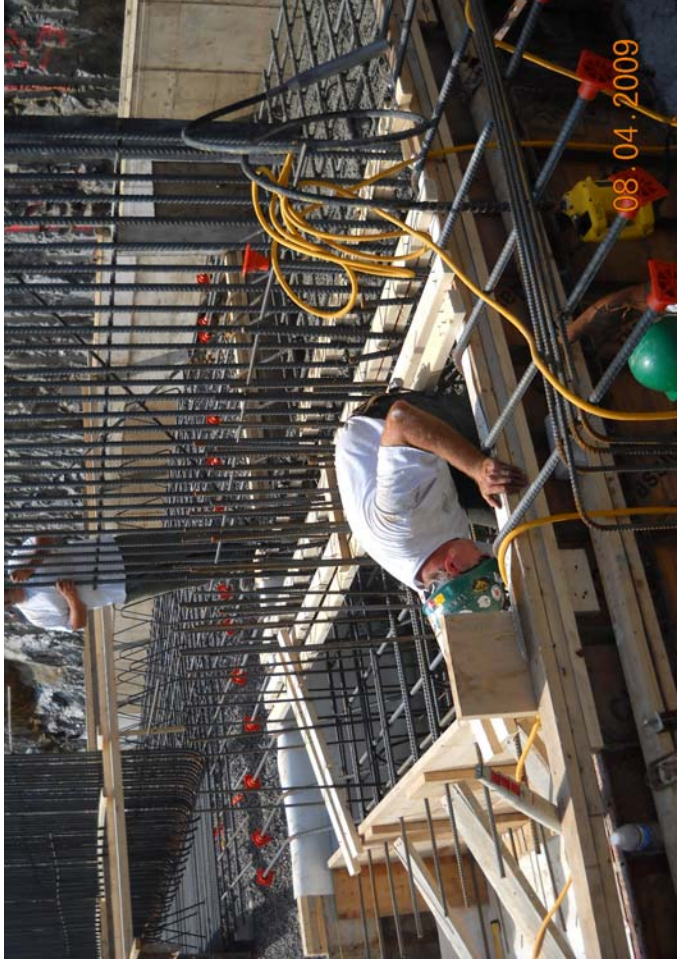
**NON-CONFORMANCE ITEMS OBSERVED**      Yes  No

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

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

Persons Notified: \_\_\_\_\_

**Notes:**  
 SWCE received revision for elevator pit walls and footing just prior to concrete placement. Vapor barrier installed at elevator pit footing. Rebar appeared to be installed as required. SWCE concrete tests results were within specifications.





## Concrete Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	8-10-09
<b>Concrete Contractor:</b>	Newman Concrete	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Footing: line D, 7 to 1.5	<b>SWCE Rep.:</b>	VLТ
<b>Placement Type:</b>	Footing <input checked="" type="checkbox"/> Wall <input type="checkbox"/> Column <input type="checkbox"/> Slab <input type="checkbox"/> Other <input type="checkbox"/>	<b>Arrived at Site:</b>	8:30am
		<b>Left Site:</b>	4:30pm

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

<u>Referenced Drawings</u>	<u>Date</u>	<u>Page</u>	<u>Rev.</u>	<u>ASTM</u>	<u>GRADE</u>
Barker	7/2/09	RO5		A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
Barker	6/30/09	RO3		A 616 <input type="checkbox"/>	75 <input type="checkbox"/>
SMRT		SB504		A 617 <input type="checkbox"/>	6"x6" WWF <input type="checkbox"/>
				A 706 <input type="checkbox"/>	

<u>CONCRETE PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Required mix used	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4000psi, 3/4" w/ MRWR
Placement and consolidation of concrete observed	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Conveyor
Depth of layer maximum limits not exceeded	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	As required
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	As required
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Removal of temporary ties and spacers	Yes <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A

**FIELD TESTING OF CONCRETE PERFORMED**      Yes       No

**\*CYLINDER SET NO:**      984 - 11 to 15      ←\*refer to associated concrete test report

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

**NON-CONFORMANCE ITEMS OBSERVED**      Yes       No

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

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

Persons Notified: \_\_\_\_\_

**Notes:**  
 SWCE identified that Barker drawing RO5 called for 16 #8's T & B at line D from 6 to 7. Newman installed #6's at this location. Pizzagalli confirmed with SMRT prior to placement that Barker drawing incorrect and approved rebar as installed. Newman installed horizontal dowels in footing at elevator pit and stairwell prior to placement. SWCE concrete tests results were within specifications.



## Concrete Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	8-11-09
<b>Concrete Contractor:</b>	Newman Concrete	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Wall: line D 10 to 7	<b>SWCE Rep.:</b>	VLT
<b>Placement Type:</b>	Footing <input type="checkbox"/> Wall <input checked="" type="checkbox"/> Column <input type="checkbox"/> Slab <input type="checkbox"/> Other <input type="checkbox"/>	<b>Arrived at Site:</b>	9:30am
		<b>Left Site:</b>	1:30pm

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

<u>Referenced Drawings</u>	<u>Date</u>	<u>Page</u>	<u>Rev.</u>	<u>ASTM</u>	<u>GRADE</u>
Barker	7/2/09	RO4		A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
SMRT		SB504		A 616 <input type="checkbox"/>	75 <input type="checkbox"/>
				A 617 <input type="checkbox"/>	
				A 706 <input type="checkbox"/>	6"x6" WWF <input type="checkbox"/>

<u>CONCRETE PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>	<u>N/O</u>	<u>Comments</u>
Required mix used	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	4000psi, 3/4" w/ MRWR
Placement and consolidation of concrete observed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	Conveyor
Depth of layer maximum limits not exceeded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	As required
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	As required
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Removal of temporary ties and spacers	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	N/A

<u>FIELD TESTING OF CONCRETE PERFORMED</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
*CYLINDER SET NO: 984 - 16	←*refer to associated concrete test report

<u>POST PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>	<u>N/O</u>	<u>Comments</u>
Specified finish	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	w/ Trowel
Protection of surfaces from cracking due to rapid drying	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input checked="" type="checkbox"/>	
Proper curing procedures implemented	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input checked="" type="checkbox"/>	

<u>NON-CONFORMANCE ITEMS OBSERVED</u>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Non-Conformance Item Description:	
Action Taken by SWCE:	
Persons Notified:	

**Notes:**

SWCE field tech Karl Gimpel identified # 5 90 degree hook bars at wall did not meet vertical lap requirement of 12". Newman added extra #5 bars at each location to meet lap requirement. Newman installed water stop at top of footing and vertical at joints as required. SWCE concrete tests results were within specifications.

Attachments: Photos

Reviewed By: RED





# Concrete Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	8-13-09
<b>Concrete Contractor:</b>	Newman Concrete	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Footing: Line 1 D to C.3	<b>SWCE Rep.:</b>	VLT
<b>Placement Type:</b>	Footing <input checked="" type="checkbox"/> Wall <input type="checkbox"/> Column <input type="checkbox"/> Slab <input type="checkbox"/> Other <input type="checkbox"/>	<b>Arrived at Site:</b>	9:00am
		<b>Left Site:</b>	1:30pm

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

<u>Referenced Drawings</u>	<u>Date</u>	<u>Page</u>	<u>Rev.</u>	<u>ASTM</u>	<u>GRADE</u>
Barker	7/2/09	RO6		A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
				A 616 <input type="checkbox"/>	75 <input type="checkbox"/>
				A 617 <input type="checkbox"/>	
				A 706 <input type="checkbox"/>	6"x6" WWF <input type="checkbox"/>

<u>CONCRETE PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Required mix used	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4000psi, 3/4" w/ MRWR
Placement and consolidation of concrete observed	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Conveyor
Depth of layer maximum limits not exceeded	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	As required
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	As required
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Removal of temporary ties and spacers	Yes <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A

**FIELD TESTING OF CONCRETE PERFORMED** Yes  No   
**\*CYLINDER SET NO:** 984 - 17 & 18 ←\*refer to associated concrete test report

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

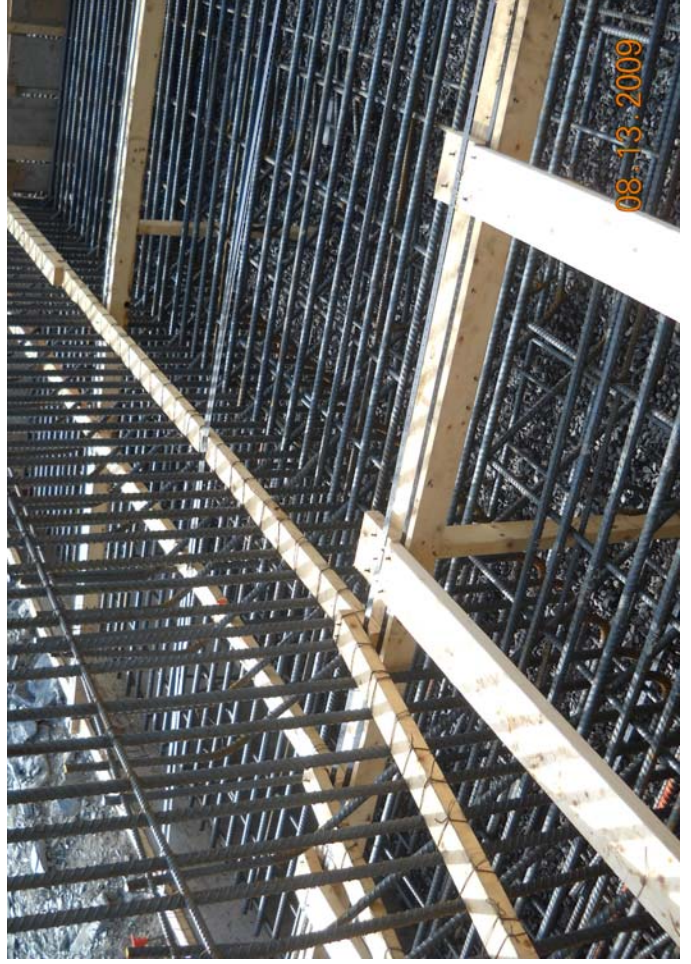
**NON-CONFORMANCE ITEMS OBSERVED** Yes  No

Non-Conformance Item Description: \_\_\_\_\_  
 Action Taken by SWCE: \_\_\_\_\_  
 Persons Notified: \_\_\_\_\_

**Notes:**  
 SWCE identified #8 bars @ 5" were missing at intersection of line 1 and D. Newman had installed #6's at 12". Newman installed #8's at 5" as required, and left #6's in place as extra reinforcement. Rebar appeared to be installed as required. SWCE concrete tests results were within specifications.

Attachments: Photos

Reviewed By: RED



## Concrete Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	8-17-09
<b>Concrete Contractor:</b>	Newman Concrete	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Footing: Line D, 5.5 to 7	<b>SWCE Rep.:</b>	VLТ
<b>Placement Type:</b>	Footing <input checked="" type="checkbox"/> Wall <input type="checkbox"/> Column <input type="checkbox"/> Slab <input type="checkbox"/> Other <input type="checkbox"/>	<b>Arrived at Site:</b>	9:00am
		<b>Left Site:</b>	1:30pm

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

<u>Referenced Drawings</u>	<u>Date</u>	<u>Page</u>	<u>Rev.</u>	<u>ASTM</u>	<u>GRADE</u>
Barker	7/2/09	RO5		A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
Barker	6/30/09	RO3		A 616 <input type="checkbox"/>	75 <input type="checkbox"/>
SMRT RFI #41		SB504	#41	A 617 <input type="checkbox"/>	6"x6" WWF <input type="checkbox"/>
				A 706 <input type="checkbox"/>	

<u>CONCRETE PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>	<u>N/O</u>	<u>Comments</u>
Required mix used	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	4000psi, 3/4"w/ MRWR
Placement and consolidation of concrete observed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	Conveyor
Depth of layer maximum limits not exceeded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	As required
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	As required
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Removal of temporary ties and spacers	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	N/A

**FIELD TESTING OF CONCRETE PERFORMED**      Yes  No

**\*CYLINDER SET NO:**      984 - 19 & 20      ←\*refer to associated concrete test report

<u>POST PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>	<u>N/O</u>	<u>Comments</u>
Specified finish	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	w/ Trowel
Protection of surfaces from cracking due to rapid drying	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input checked="" type="checkbox"/>	
Proper curing procedures implemented	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input checked="" type="checkbox"/>	

**NON-CONFORMANCE ITEMS OBSERVED**      Yes  No

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

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

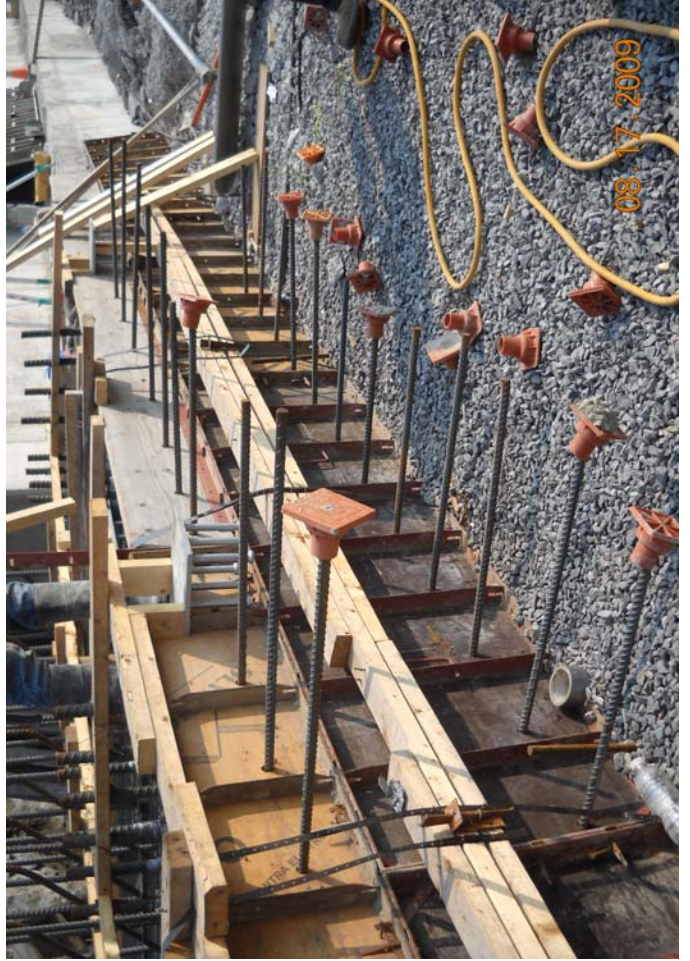
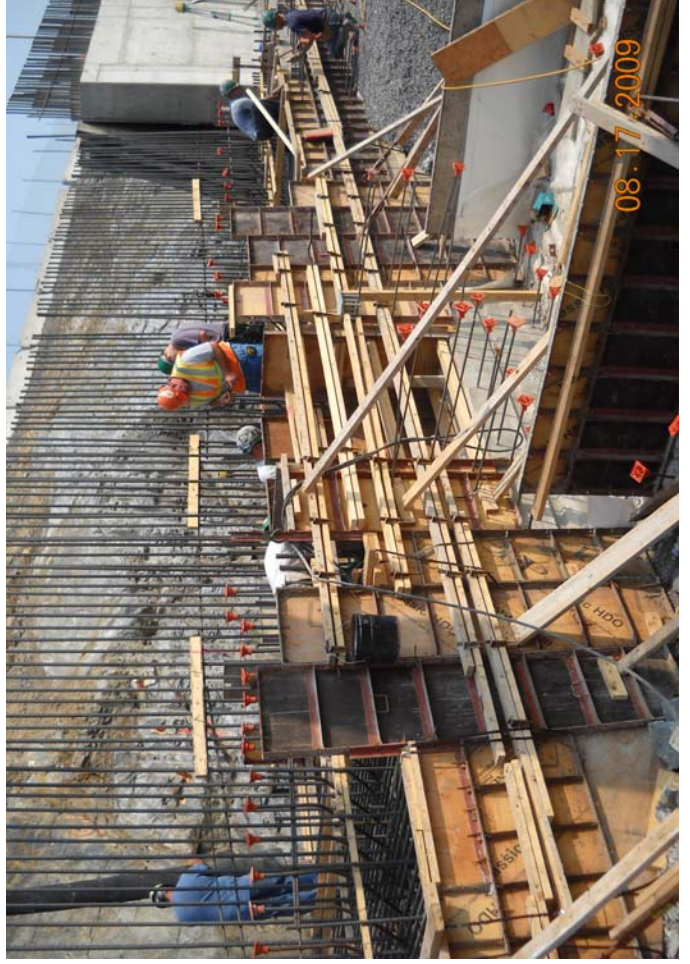
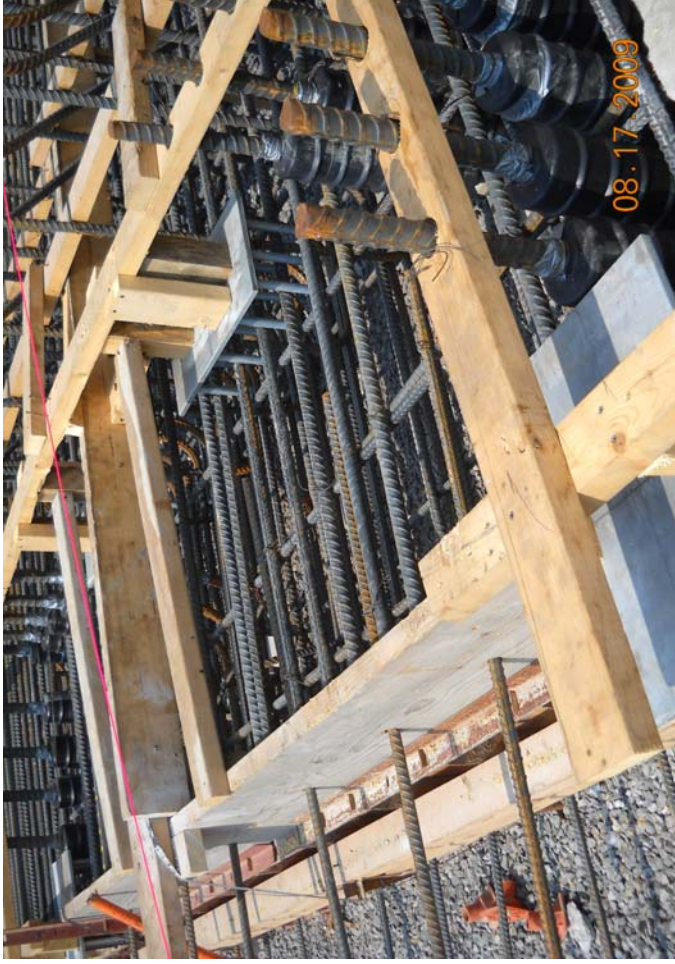
Persons Notified: \_\_\_\_\_

**Notes:**

SWCE was provided RFI #41 requiring a change to installation of diagonal vertical dowels in wall as well as forming far face elevator pit wall as part of footing a line D from 5.5 to 7. SWCE identified horizontal corner bar at elevator pit wall missing due to proximity to precast vertical dowel Wilson sleeve. Newman concrete was able to install this corner bar prior to placement as required. SWCE advised Pizzagalli there were not the correct # of horizontal dowels at Int. line D and 7. Newman will drill and epoxy correct # of horizontal bars after footing placed in order to have correct # of bars to splice into stair footing per Pizzagalli.

Attachments: Photos

Reviewed By: RED







# Concrete Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	8-20-09
<b>Concrete Contractor:</b>	Newman Concrete	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Wall: Line D, 1.5 to 8	<b>SWCE Rep.:</b>	VLT
<b>Placement Type:</b>	Footing <input type="checkbox"/> Wall <input checked="" type="checkbox"/> Column <input type="checkbox"/> Slab <input type="checkbox"/> Other <input type="checkbox"/>	<b>Arrived at Site:</b>	7:45am
		<b>Left Site:</b>	1:00pm

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

<u>Referenced Drawings</u>	<u>Date</u>	<u>Page</u>	<u>Rev.</u>	<u>ASTM</u>	<u>GRADE</u>
Barker	7/2/09	RO4	8/7/09	A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
				A 616 <input type="checkbox"/>	75 <input type="checkbox"/>
				A 617 <input type="checkbox"/>	
				A 706 <input type="checkbox"/>	6"x6" WWF <input type="checkbox"/>

<u>CONCRETE PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Required mix used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	4000psi, 3/4"w/ MRWR
Placement and consolidation of concrete observed	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Pumped
Depth of layer maximum limits not exceeded	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	As required
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	As required
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Removal of temporary ties and spacers	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	N/A

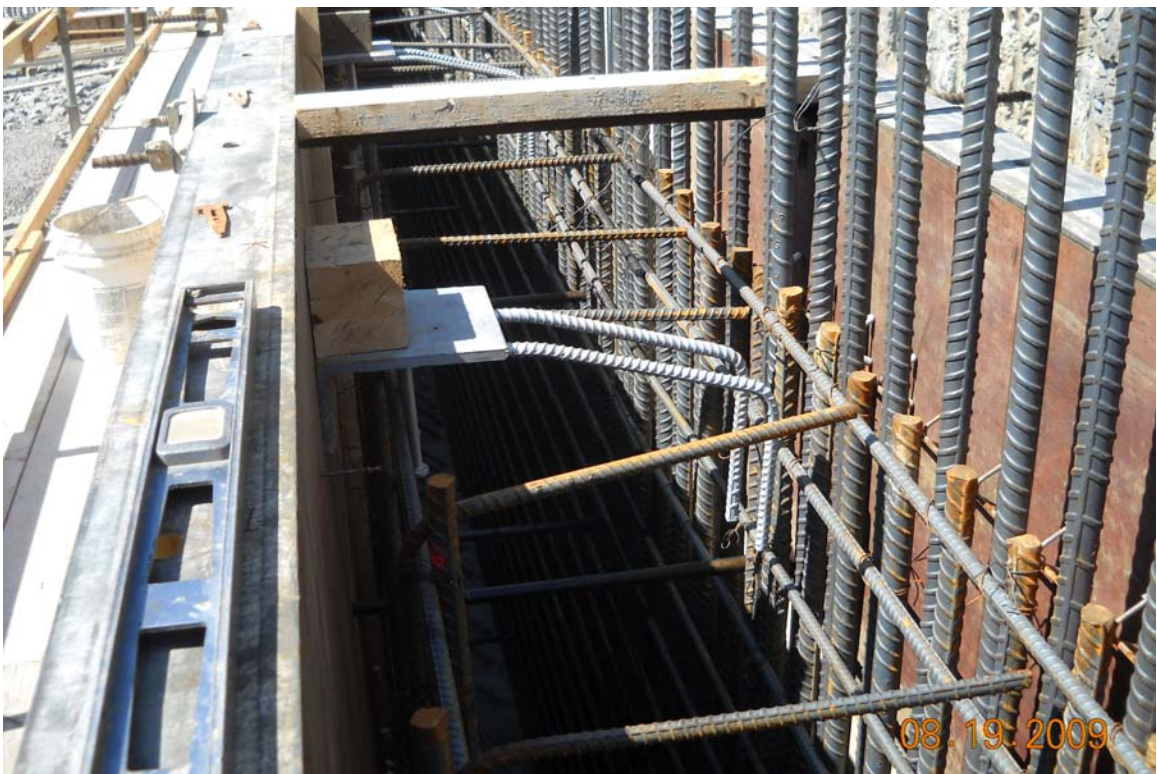
**FIELD TESTING OF CONCRETE PERFORMED** Yes  No   
 \*CYLINDER SET NO: 984 - 21 & 22 ←\*refer to associated concrete test report

<u>POST PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Specified finish	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	w/ Trowel
Protection of surfaces from cracking due to rapid drying	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	
Proper curing procedures implemented	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	

**NON-CONFORMANCE ITEMS OBSERVED** Yes  No

Non-Conformance Item Description:  
 Action Taken by SWCE:  
 Persons Notified:

**Notes:**  
 Retarder used as an admixture for 1<sup>st</sup> 100 yards. Newman concrete placed wall in 3 lifts. Pizzagalli requested 2 extra cylinders be made and tested for early breaks in order to schedule backfilling operations.





# Concrete Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	8-21-09
<b>Concrete Contractor:</b>	Newman Concrete	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Footing: line A, 1 to 6	<b>SWCE Rep.:</b>	VLT
<b>Placement Type:</b>	Footing <input checked="" type="checkbox"/> Wall <input type="checkbox"/> Column <input type="checkbox"/> Slab <input type="checkbox"/> Other <input type="checkbox"/>	<b>Arrived at Site:</b>	8:30am
		<b>Left Site:</b>	12:30pm

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

<u>Referenced Drawings</u>	<u>Date</u>	<u>Page</u>	<u>Rev.</u>	<u>ASTM</u>	<u>GRADE</u>
Barker	7/20/09	RO4	7/31	A 615 <input checked="" type="checkbox"/> A 616 <input type="checkbox"/> A 617 <input type="checkbox"/> A 706 <input type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/> 75 <input type="checkbox"/> 6"x6" WWF <input type="checkbox"/>

<u>CONCRETE PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Required mix used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	4000psi, 3/4"w/ MRWR
Placement and consolidation of concrete observed	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Conveyor
Depth of layer maximum limits not exceeded	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	As required
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	As required
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Removal of temporary ties and spacers	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	

**FIELD TESTING OF CONCRETE PERFORMED** Yes  No   
 \*CYLINDER SET NO: 984 - 24 & 25 ←\*refer to associated concrete test report

<u>POST PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Specified finish	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	w/ Trowel
Protection of surfaces from cracking due to rapid drying	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	
Proper curing procedures implemented	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	

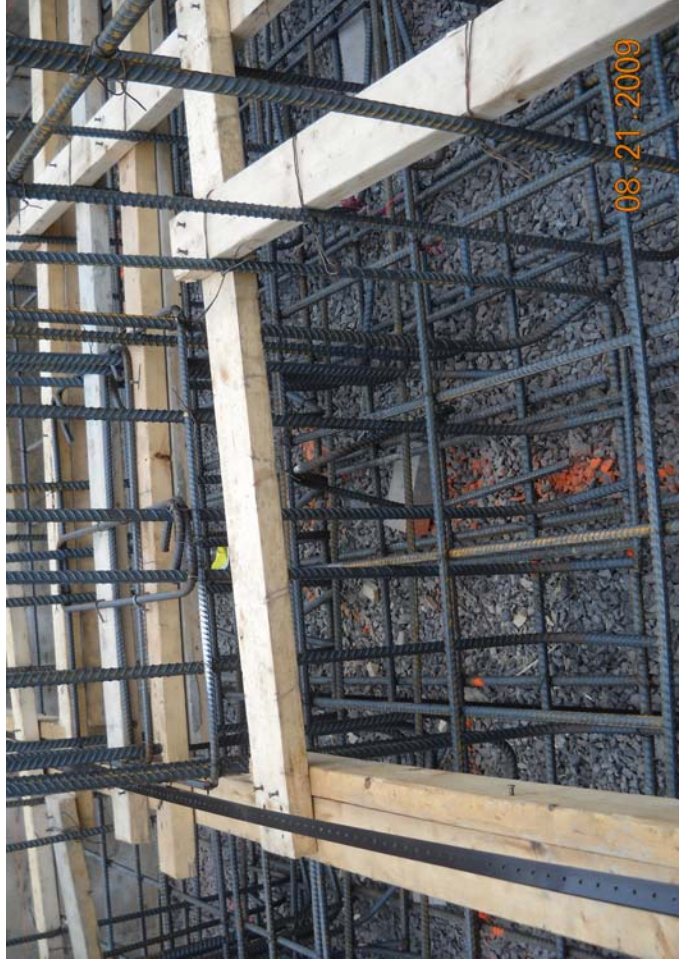
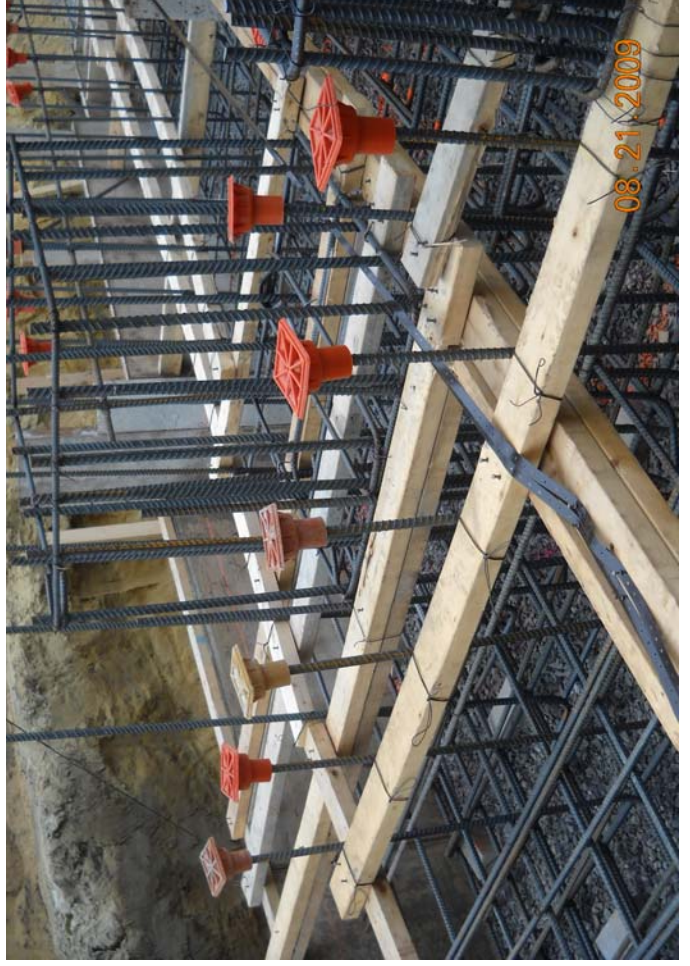
**NON-CONFORMANCE ITEMS OBSERVED** Yes  No

Non-Conformance Item Description:  
 Action Taken by SWCE:  
 Persons Notified:

**Notes:**  
 SWCE identified vert.'s missing at far face of intersection line A and 1 and notified Pizzagalli. Pizzagalli directed Newman to install verts as required. SWCE advised Newman and Pizzagalli of test results.

Attachments: Photos

Reviewed By:



## Concrete Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	8-24-09
<b>Concrete Contractor:</b>	Newman Concrete	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Wall: line A 13 to 9	<b>SWCE Rep.:</b>	VLT
<b>Placement Type:</b>	Footing <input type="checkbox"/> Wall <input checked="" type="checkbox"/> Column <input type="checkbox"/> Slab <input type="checkbox"/> Other <input type="checkbox"/>	<b>Arrived at Site:</b>	12:30pm
		<b>Left Site:</b>	4:00pm

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

<u>Referenced Drawings</u>	<u>Date</u>	<u>Page</u>	<u>Rev.</u>	<u>ASTM</u>	<u>GRADE</u>
Barker	7/20/09	RO4	7/31	A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
SMRT RFI #45 Detail CJ-4	8/10/09	S-4		A 616 <input type="checkbox"/>	75 <input type="checkbox"/>
				A 617 <input type="checkbox"/>	
				A 706 <input type="checkbox"/>	6"x6" WWF <input type="checkbox"/>

<u>CONCRETE PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>	<u>N/O</u>	<u>Comments</u>
Required mix used	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	4000psi, 3/4"w/ MRWR
Placement and consolidation of concrete observed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	Conveyor
Depth of layer maximum limits not exceeded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	As required
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	As required
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Removal of temporary ties and spacers	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	

**FIELD TESTING OF CONCRETE PERFORMED**      Yes  No

**\*CYLINDER SET NO:**      984 - 26 & 27      ←\*refer to associated concrete test report

<u>POST PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>	<u>N/O</u>	<u>Comments</u>
Specified finish	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	w/ Trowel
Protection of surfaces from cracking due to rapid drying	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input checked="" type="checkbox"/>	
Proper curing procedures implemented	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input checked="" type="checkbox"/>	

**NON-CONFORMANCE ITEMS OBSERVED**      Yes  No

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

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

Persons Notified: \_\_\_\_\_

**Notes:**  
 Rebar appeared to be installed in conformance with project specifications. Concrete test met project specifications. SWCE advised Newman and Pizzagalli of test results.





# Concrete Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	8-27-09
<b>Concrete Contractor:</b>	Newman Concrete	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Footing: line 1, A to C.3	<b>SWCE Rep.:</b>	VLT
<b>Placement Type:</b>	Footing <input checked="" type="checkbox"/> Wall <input type="checkbox"/> Column <input type="checkbox"/> Slab <input type="checkbox"/> Other <input type="checkbox"/>	<b>Arrived at Site:</b>	9:30am
		<b>Left Site:</b>	12:45pm

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

<u>Referenced Drawings</u>	<u>Date</u>	<u>Page</u>	<u>Rev.</u>	<u>ASTM</u>	<u>GRADE</u>
Barker	7/30/09	RO6	8/7	A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
SMRT SI-17	7/17/09	S-3		A 616 <input type="checkbox"/>	75 <input type="checkbox"/>
				A 617 <input type="checkbox"/>	
				A 706 <input type="checkbox"/>	6"x6" WWF <input type="checkbox"/>

<u>CONCRETE PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Required mix used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	4000psi, 3/4"w/ MRWR
Placement and consolidation of concrete observed	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Conveyor
Depth of layer maximum limits not exceeded	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	As required
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	As required
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Removal of temporary ties and spacers	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	

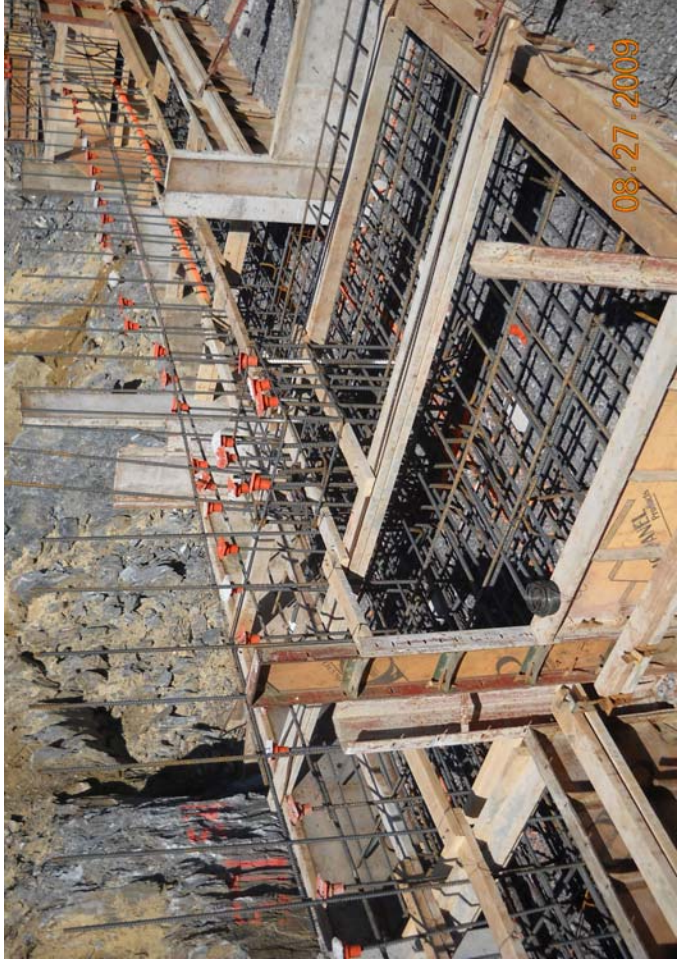
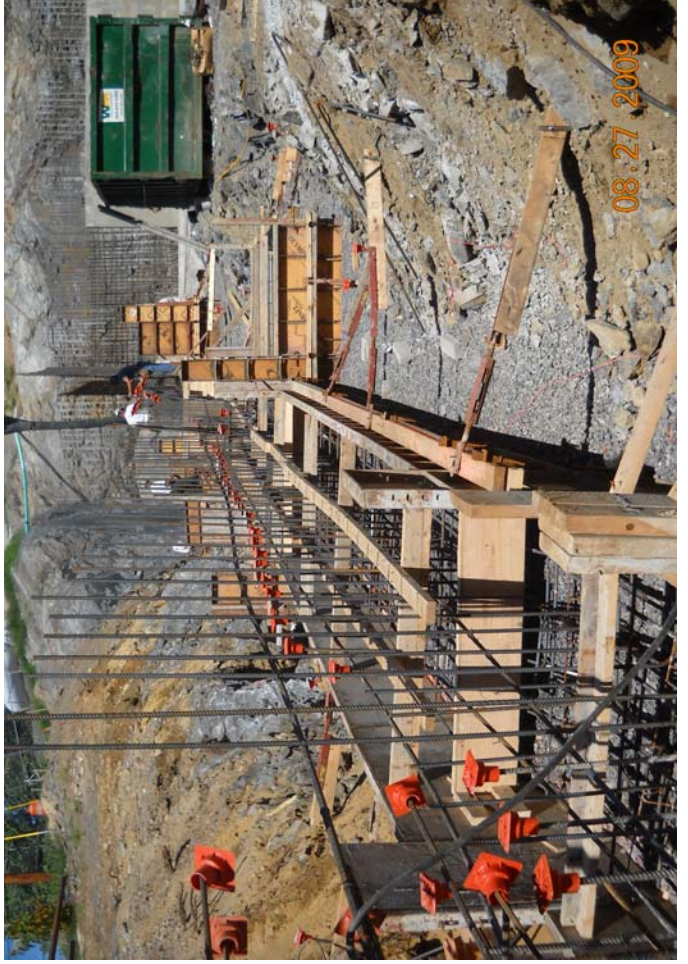
**FIELD TESTING OF CONCRETE PERFORMED** Yes  No   
 \*CYLINDER SET NO: 984 - 28 ←\*refer to associated concrete test report

<u>POST PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Specified finish	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	w/ Trowel
Protection of surfaces from cracking due to rapid drying	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	
Proper curing procedures implemented	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	

**NON-CONFORMANCE ITEMS OBSERVED** Yes  No

Non-Conformance Item Description:  
 Action Taken by SWCE:  
 Persons Notified:

**Notes:**  
 Rebar appeared to be installed in conformance with project specifications. Concrete test met project specifications. SWCE advised Newman and Pizzagalli of test results.





## Concrete Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	9-3-09
<b>Concrete Contractor:</b>	Newman Concrete	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Walls: line 13, D to C.3. Line D 13 to 12	<b>SWCE Rep.:</b>	VLT
<b>Placement Type:</b>	Footing <input type="checkbox"/> Wall <input checked="" type="checkbox"/> Column <input type="checkbox"/> Slab <input type="checkbox"/> Other <input type="checkbox"/>	<b>Arrived at Site:</b>	10:00am
		<b>Left Site:</b>	4:30pm

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

<u>Referenced Drawings</u>	<u>Date</u>	<u>Page</u>	<u>Rev.</u>	<u>ASTM</u>	<u>GRADE</u>
Barker	7/2/09	R04	8/21	A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
				A 616 <input type="checkbox"/>	75 <input type="checkbox"/>
				A 617 <input type="checkbox"/>	
				A 706 <input type="checkbox"/>	6"x6" WWF <input type="checkbox"/>

<u>CONCRETE PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Required mix used	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4000psi, 3/4"w/ HRWR
Placement and consolidation of concrete observed	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pump
Depth of layer maximum limits not exceeded	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Multiple lifts
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	As required
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Removal of temporary ties and spacers	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Acceptable

**FIELD TESTING OF CONCRETE PERFORMED**      Yes     No

\*CYLINDER SET NO:      984 - 29 & 30      ←\*refer to associated concrete test report

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

**NON-CONFORMANCE ITEMS OBSERVED**      Yes     No

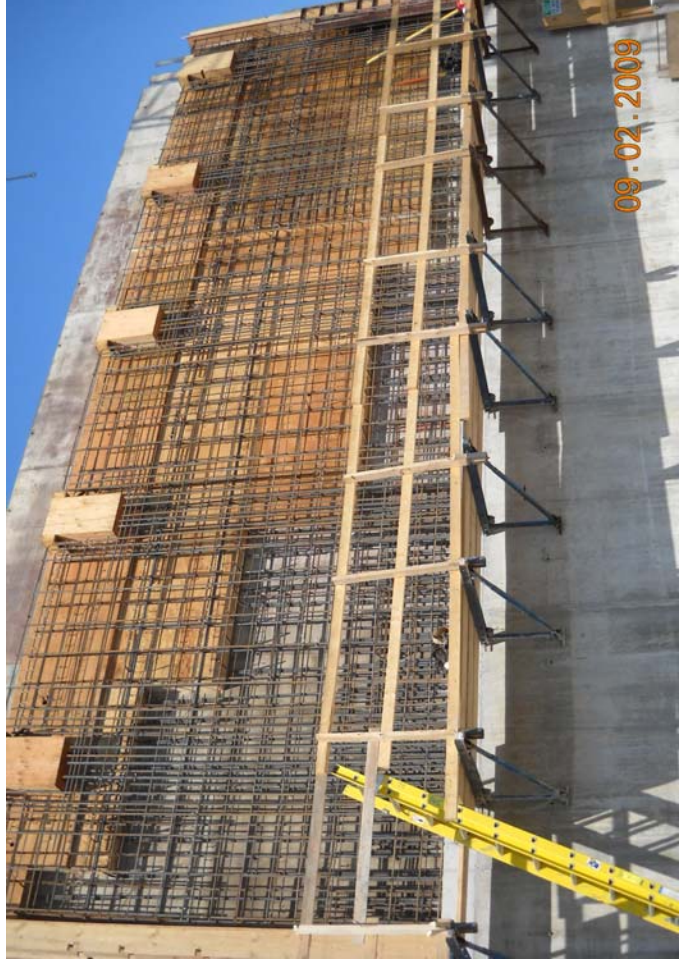
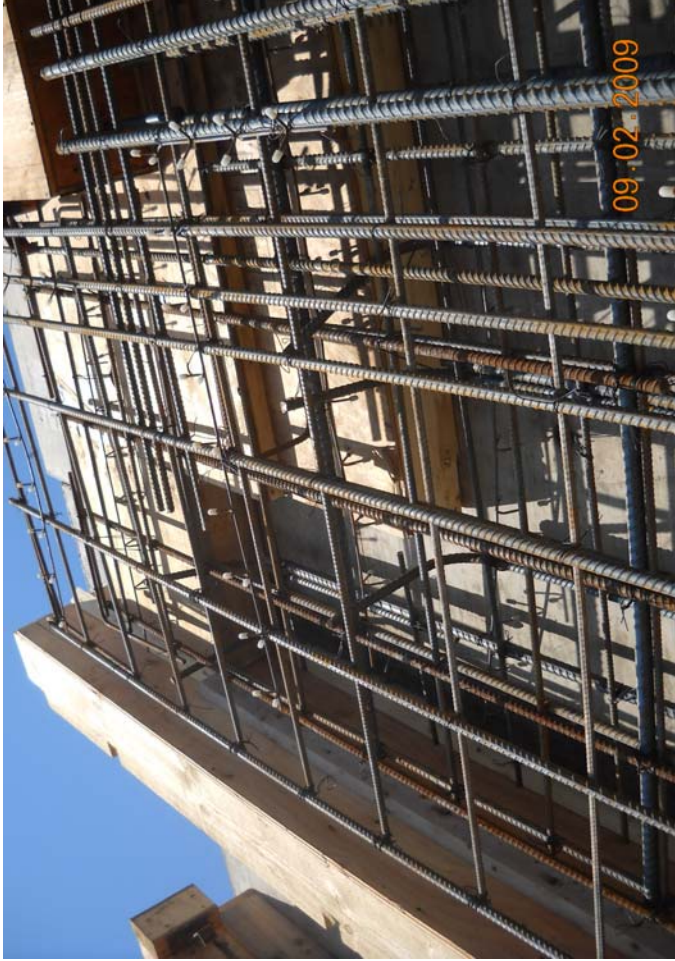
Non-Conformance Item Description: \_\_\_\_\_

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

Persons Notified: \_\_\_\_\_

**Notes:**  
 Newman ordered High Range Water Reducer(HRWR) in concrete mix for workability. Phil Nunley QC for Dragon Products was on site to adjust slumps. Pozzoloth 100XR (retarder) in 3<sup>rd</sup> and 4<sup>th</sup> loads. SWCE advised Pizzagalli the 1<sup>st</sup> load was on site longer than 90 minutes. Pizzagalli rejected the last yard of the 1<sup>st</sup> load because it was on site longer 90 minutes. Concrete test met project specifications. SWCE advised Newman and Pizzagalli of test results.





**MATTHEW J. MILLER, P.E.**

STRUCTURAL ENGINEERING CONSULTANT

23 THORNBURY WAY  
WINDHAM, ME 04062  
207.232.2258**SPECIAL INSPECTIONS OF  
REINFORCED CONCRETE****Report No. 3-001**Project No.: 09012 Date: 09/03/2009Project Name: Martin's Point MOB Special Inspections Time: 10:30am to 12:30pm

Weather: \_\_\_\_\_

Present at Site: Tim Street, Matt MillerLocation(s) of Inspection: Reinforcing: Line I, D to C lower pour; Line I C to A; Line A I to 9; Line D 9 to 5  
Upper Wall; Concrete Placement: Line I3 D to C

Item:	General Conformance	Non Conformance	Corrected while on site	N/A
1. Contractor using approved shop drawings for reinforcing layout	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Reinforcing Size, Grade, Spacing and Clear Distances	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Reinforcing Cleanliness: little or no rust, grease, form oil, excessive scaling, or dirt.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Support of reinforcing: use of chairs, bolsters, etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Stirrup spacing in beams.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Tie spacing in columns and/or piers.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Dowels properly placed and secured.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Reinforcing splices: proper length laps or mechanical splice.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Construction joints: clean, waterstop type, size, location, key depth and width.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Forms in place: clean, surface condition, oiled.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Formwork dimensions: depth and width	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Are proper curing means present on site for curing concrete placed. (curing compounds, burlap, sheets, etc.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Hot weather requirements.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
14. Cold weather requirements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15. Placement of Anchor Rods and/or other items to be embedded in concrete	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Is reinspection required? Yes  No **Comments:** Item 2: Along D line where additional bars were added per RFI 41, the clear spacing in isolated areas were not in conformance with ACI 318 for a minimum of (1) bar diameter. See attached photo.**Inspected By:** Matthew J. Miller, P.E.



# Concrete Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	9-4-09
<b>Concrete Contractor:</b>	Newman Concrete	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Walls: line 1, A to C.3. Line A, 1 to 6	<b>SWCE Rep.:</b>	VLT
<b>Placement Type:</b>	Footing <input type="checkbox"/> Wall <input checked="" type="checkbox"/> Column <input type="checkbox"/> Slab <input type="checkbox"/> Other <input type="checkbox"/>	<b>Arrived at Site:</b>	7:30am
		<b>Left Site:</b>	11:00am

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

<u>Referenced Drawings</u>	<u>Date</u>	<u>Page</u>	<u>Rev.</u>	<u>ASTM</u>	<u>GRADE</u>
Barker	7/2/09	RO6	8/21	A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
				A 616 <input type="checkbox"/>	75 <input type="checkbox"/>
				A 617 <input type="checkbox"/>	
				A 706 <input type="checkbox"/>	6"x6" WWF <input type="checkbox"/>

<u>CONCRETE PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Required mix used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	4000psi, 3/4"w/ HRWR
Placement and consolidation of concrete observed	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Pump
Depth of layer maximum limits not exceeded	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Multiple lifts
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	As required
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Removal of temporary ties and spacers	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable

**FIELD TESTING OF CONCRETE PERFORMED** Yes  No   
 \*CYLINDER SET NO: 984 - 31 & 32 ←\*refer to associated concrete test report

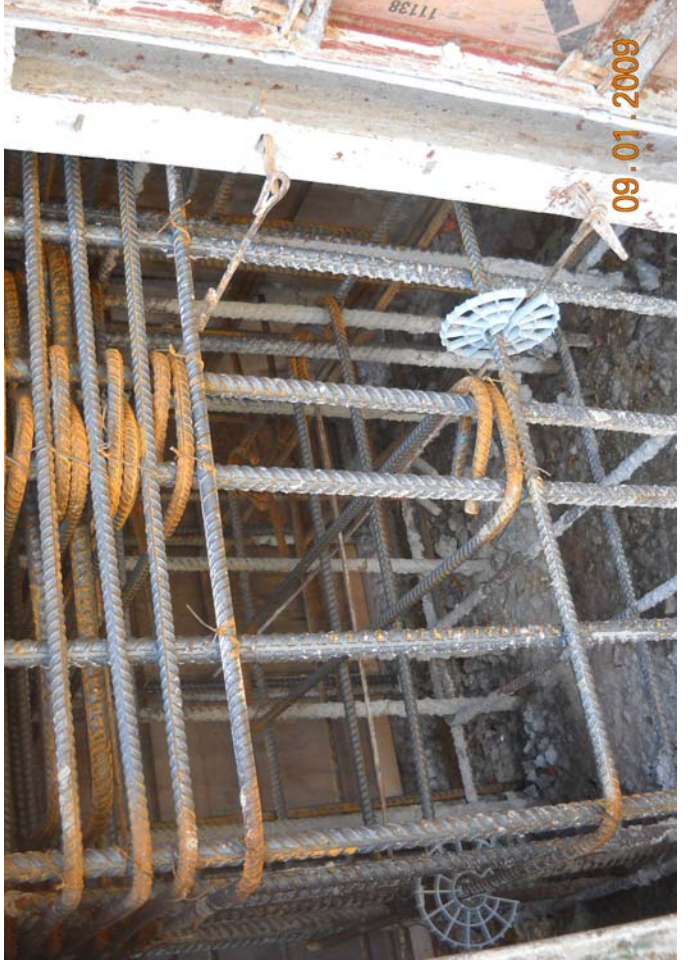
<u>POST PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Specified finish	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	w/ Trowel
Protection of surfaces from cracking due to rapid drying	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	
Proper curing procedures implemented	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	

**NON-CONFORMANCE ITEMS OBSERVED** Yes  No

Non-Conformance Item Description:  
 Action Taken by SWCE:  
 Persons Notified:

**Notes:**  
 SWCE advised Pizzagalli vert. dowels at line 1 were 90 degree hook bars, with the hook resting in the footing key way. Pizzagalli directed Newman to cut vert dowels away from key way. SWCE advised Pizzagalli wall "Z" bars were missing at intersection of line 1 and B. Pizzagalli directed Newman to add 2 wall "Z" bars at this location. SWCE observed Newmans corrections to be in conformance with job specifications.

Attachments: Photos  
 Reviewed By: *Rab*  
 P:\2005\05-0927.4 M - Martin's Point Healthcare, Inc - Portland, ME - Martin's Point Healthcare Building & Parking Garage - RED\DFR's\Concrete 9-4-09.doc



## Concrete Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	9-9-09
<b>Concrete Contractor:</b>	Newman Concrete	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Slab::Elevator pit base. Footing: stair tower "A"	<b>SWCE Rep.:</b>	VLT
<b>Placement Type:</b>	Footing <input checked="" type="checkbox"/> Wall <input type="checkbox"/> Column <input type="checkbox"/> Slab <input checked="" type="checkbox"/> Other <input type="checkbox"/>	<b>Arrived at</b>	
		<b>Site:</b>	10:00am
		<b>Left Site:</b>	2:00pm

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

<u>Referenced Drawings</u>	<u>Date</u>	<u>Page</u>	<u>Rev.</u>	<u>ASTM</u>	<u>GRADE</u>
Barker	8/19/09	R03	2	A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
SMRT-detail J5	5/8/09	SB501		A 616 <input type="checkbox"/>	75 <input type="checkbox"/>
				A 617 <input type="checkbox"/>	
				A 706 <input type="checkbox"/>	6"x6" WWF <input type="checkbox"/>

<u>CONCRETE PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Required mix used	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4000psi, 3/4" w/ MRWR
Placement and consolidation of concrete observed	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Conveyor
Depth of layer maximum limits not exceeded	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Multiple lifts
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	As required
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Removal of temporary ties and spacers	Yes <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A

**FIELD TESTING OF CONCRETE PERFORMED**      Yes       No

**\*CYLINDER SET NO:**      984-33      ←\*refer to associated concrete test report

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

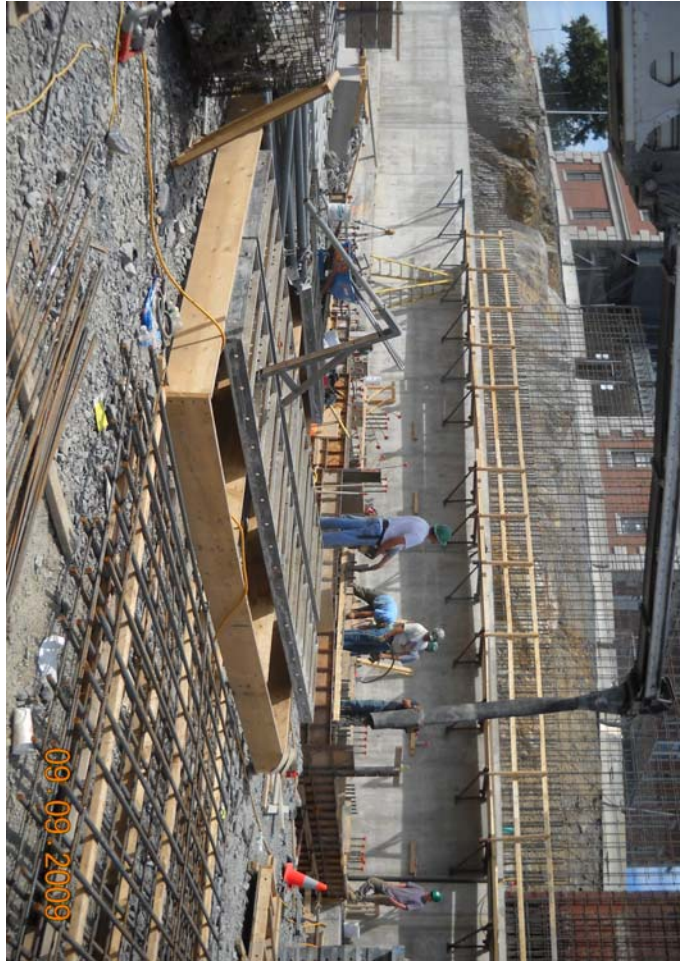
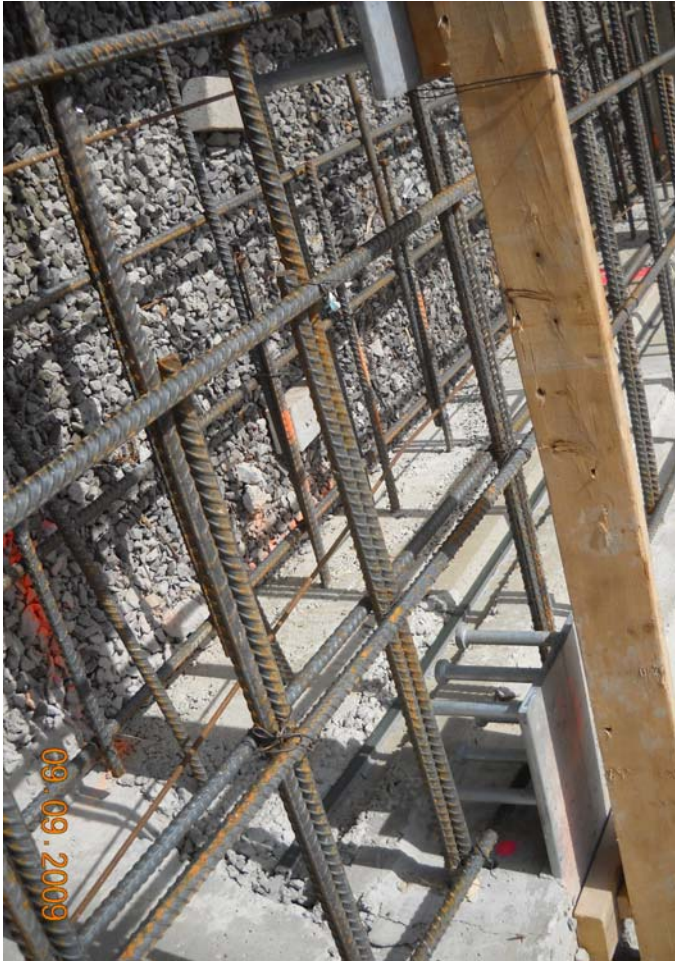
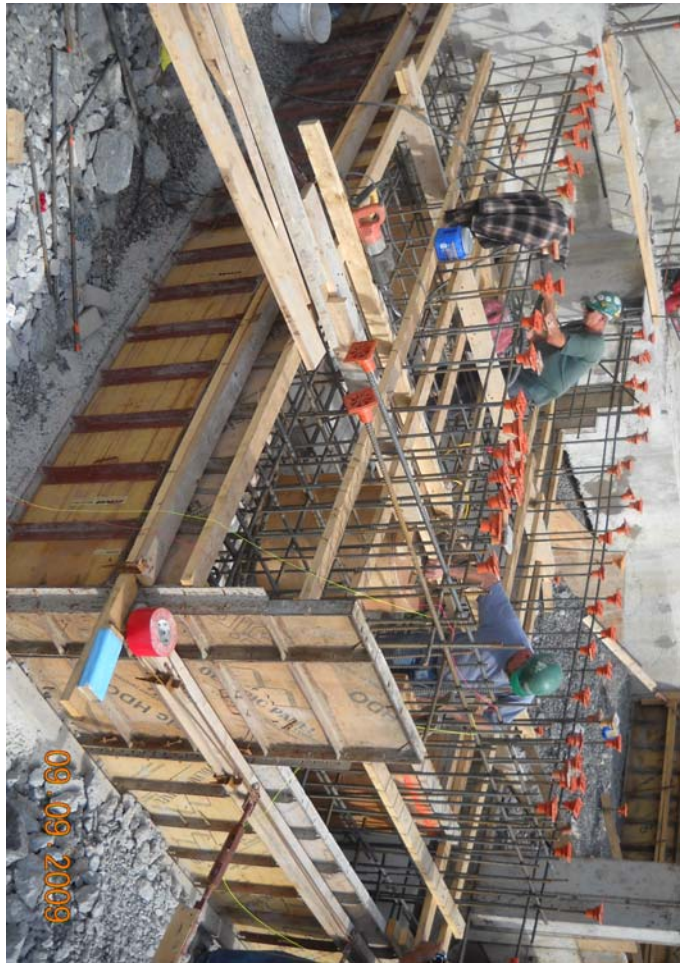
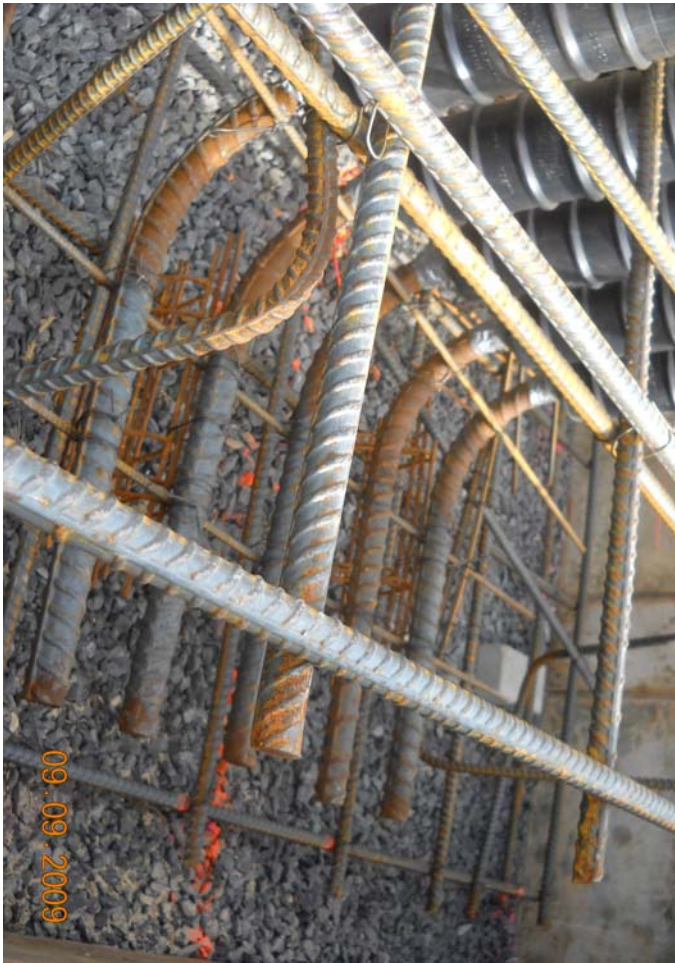
**NON-CONFORMANCE ITEMS OBSERVED**      Yes       No

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

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

Persons Notified: \_\_\_\_\_

**Notes:**  
 SWCE advised Pizzagalli of clearance issue at stair tower footing less than 3". Newman corrected clearance issue prior to placement as directed by Pizzagalli. Rebar installation appeared to be in conformance with job specifications. Concrete tests were within project specifications.





# Concrete Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	9-11-09
<b>Concrete Contractor:</b>	Newman Concrete	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Wall: line D 11 to 7	<b>SWCE Rep.:</b>	VLT
<b>Placement Type:</b>	Footing <input type="checkbox"/> Wall <input checked="" type="checkbox"/> Column <input type="checkbox"/> Slab <input type="checkbox"/> Other <input type="checkbox"/>	<b>Arrived at</b>	
		<b>Site:</b>	10:00am
		<b>Left Site:</b>	2:30pm

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

<u>Referenced Drawings</u>	<u>Date</u>	<u>Page</u>	<u>Rev.</u>	<u>ASTM</u>	<u>GRADE</u>
Barker	7/2/09	R04	8/21/09	A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
SI-19	8/7	S-1		A 616 <input type="checkbox"/>	75 <input type="checkbox"/>
				A 617 <input type="checkbox"/>	
				A 706 <input type="checkbox"/>	6"x6" WWF <input type="checkbox"/>

<u>CONCRETE PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Required mix used	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4000psi, 3/4" w/ MRWR
Placement and consolidation of concrete observed	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Conveyor
Depth of layer maximum limits not exceeded	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Multiple lifts
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	As required
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Removal of temporary ties and spacers	Yes <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A

**FIELD TESTING OF CONCRETE PERFORMED** Yes  No   
 \*CYLINDER SET NO: 984-34 & 35 ←\*refer to associated concrete test report

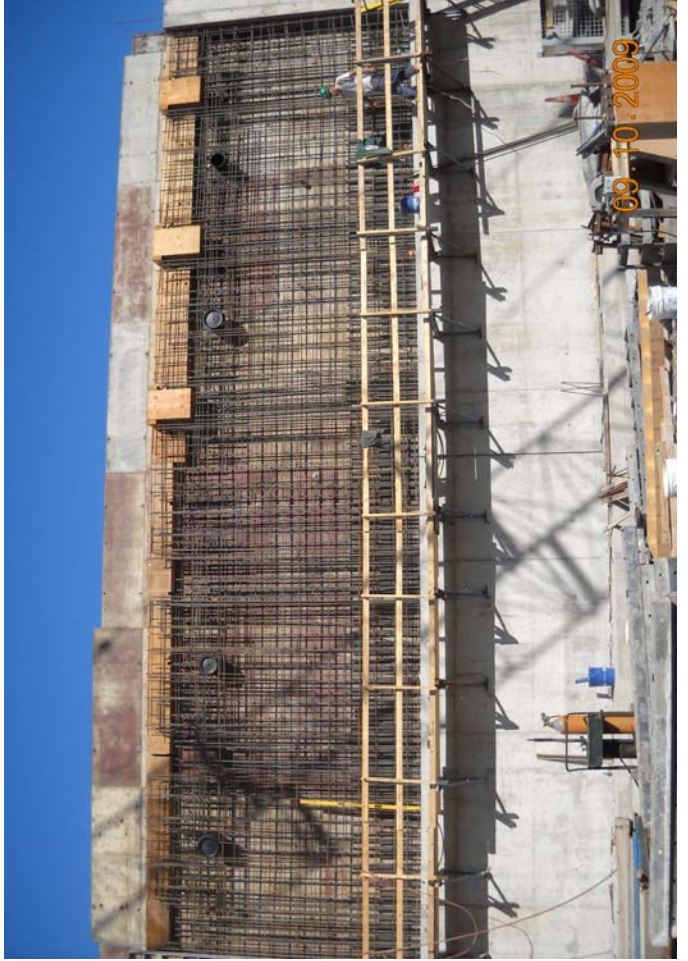
<u>POST PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Specified finish	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	w/ Trowel
Protection of surfaces from cracking due to rapid drying	Yes <input type="checkbox"/>	<input type="checkbox"/>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

**NON-CONFORMANCE ITEMS OBSERVED** Yes  No

Non-Conformance Item Description:  
 Action Taken by SWCE:  
 Persons Notified:

**Notes:**  
 Rebar installation appeared to be in conformance with job specifications. Concrete tests were within project specifications.







# Concrete Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	9-15-09
<b>Concrete Contractor:</b>	Newman Concrete	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Footings: Stair tower "B". Interior spread footings: line B & C, 2 & 3. Elevator pit wall	<b>SWCE Rep.:</b>	VLT
<b>Placement Type:</b>	Footing <input checked="" type="checkbox"/> Wall <input checked="" type="checkbox"/> Column <input type="checkbox"/> Slab <input type="checkbox"/> Other <input type="checkbox"/>	<b>Arrived at Site:</b>	9:30am
		<b>Left Site:</b>	2:30pm

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

<u>Referenced Drawings</u>	<u>Date</u>	<u>Page</u>	<u>Rev.</u>	<u>ASTM</u>	<u>GRADE</u>
Barker	6/30/09	RO2	8/19/09	A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
Barker	6/23/09	RO1	8/21/09	A 616 <input type="checkbox"/>	75 <input type="checkbox"/>
				A 617 <input type="checkbox"/>	
				A 706 <input type="checkbox"/>	6"x6" WWF <input type="checkbox"/>

<u>CONCRETE PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Required mix used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	4000psi, 3/4"w/ MRWR
Placement and consolidation of concrete observed	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Conveyor
Depth of layer maximum limits not exceeded	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	As required
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Removal of temporary ties and spacers	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable

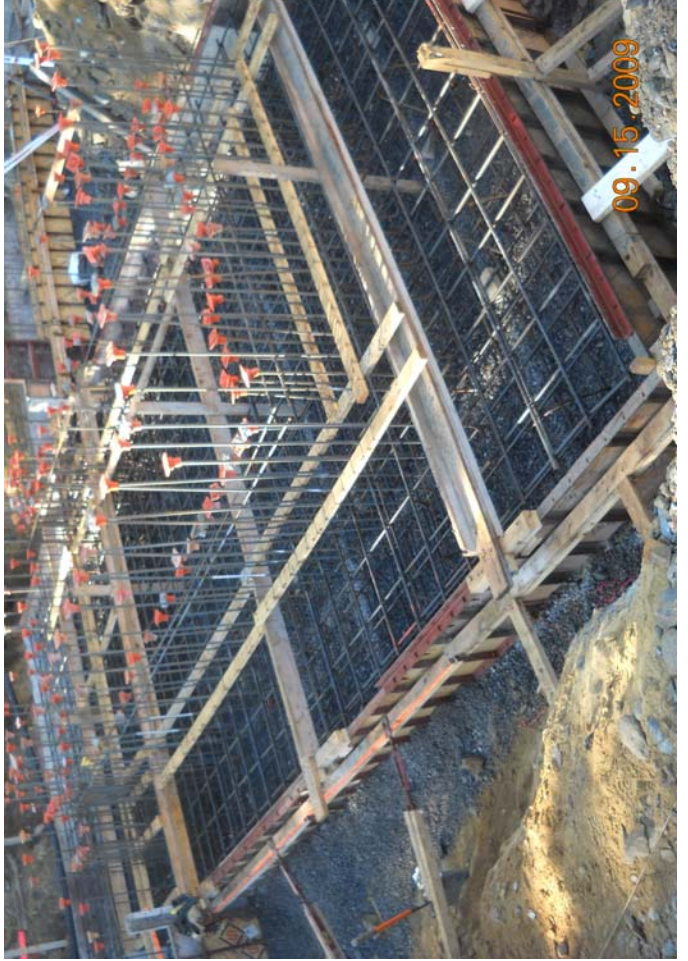
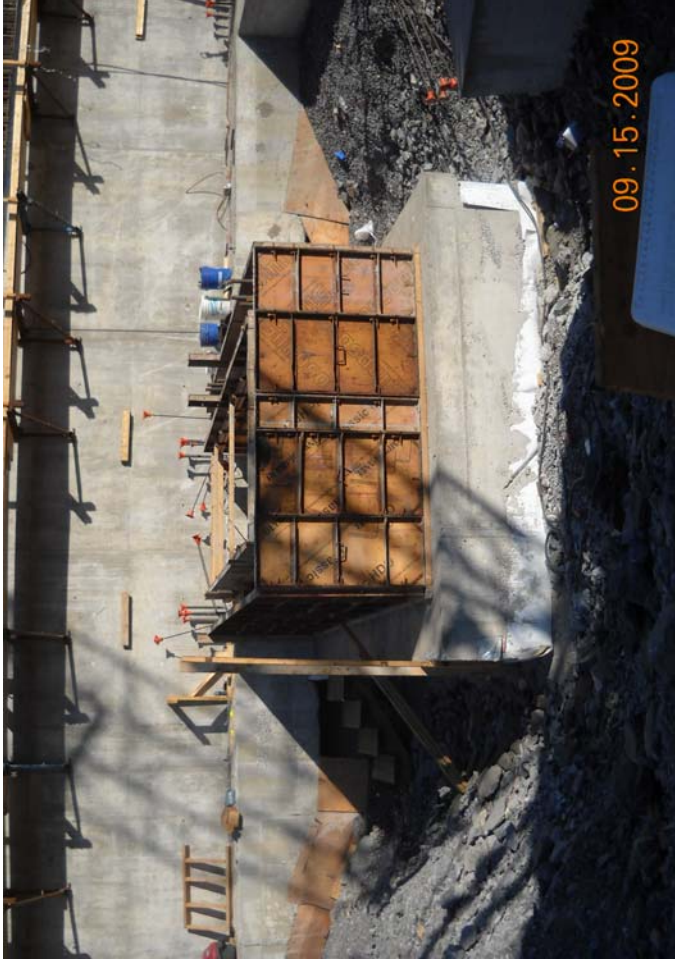
**FIELD TESTING OF CONCRETE PERFORMED** Yes  No   
 \*CYLINDER SET NO: 984-36,37,38 ←\*refer to associated concrete test report

<u>POST PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Specified finish	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	w/ Trowel
Protection of surfaces from cracking due to rapid drying	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	
Proper curing procedures implemented	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	

**NON-CONFORMANCE ITEMS OBSERVED** Yes  No

Non-Conformance Item Description:  
 Action Taken by SWCE:  
 Persons Notified:

**Notes:**  
 Rebar installation appeared to be in conformance with job specifications. Concrete tests were within project specifications.





# Concrete Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	9-16-09
<b>Concrete Contractor:</b>	Newman Concrete	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Wall: line 1 D to C.3. Piers C-2 & B-2	<b>SWCE Rep.:</b>	VLT/PJO
<b>Placement Type:</b>	Footing <input type="checkbox"/> Wall <input checked="" type="checkbox"/> Column <input checked="" type="checkbox"/> Slab <input type="checkbox"/> Other <input type="checkbox"/>	<b>Arrived at Site:</b>	7:30am
		<b>Left Site:</b>	10:30am

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

<u>Referenced Drawings</u>	<u>Date</u>	<u>Page</u>	<u>Rev.</u>	<u>ASTM</u>	<u>GRADE</u>
Barker	7/2/09	RO6	7/30/09	A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
Barker	6/23/09	RO1	8/21/09	A 616 <input type="checkbox"/>	75 <input type="checkbox"/>
				A 617 <input type="checkbox"/>	6"x6" WWF <input type="checkbox"/>
				A 706 <input type="checkbox"/>	

<u>CONCRETE PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Required mix used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	4000psi, 3/4" w/ MRWR
Placement and consolidation of concrete observed	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	
Depth of layer maximum limits not exceeded	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	As required
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Removal of temporary ties and spacers	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable

**FIELD TESTING OF CONCRETE PERFORMED** Yes  No   
 \*CYLINDER SET NO: 984-39 ←\*refer to associated concrete test report

<u>POST PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Specified finish	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	w/ Trowel
Protection of surfaces from cracking due to rapid drying	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	
Proper curing procedures implemented	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	

**NON-CONFORMANCE ITEMS OBSERVED** Yes  No

Non-Conformance Item Description:  
 Action Taken by SWCE:  
 Persons Notified:

**Notes:**  
 Rebar installation appeared to be in conformance with job specifications. Concrete tests were within project specifications.





# Concrete Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	9-17-09
<b>Concrete Contractor:</b>	Newman Concrete	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Wall: line D, 4 to 6. Footings: line 4, B & C	<b>SWCE Rep.:</b>	VLT
<b>Placement Type:</b>	Footing <input checked="" type="checkbox"/> Wall <input checked="" type="checkbox"/> Column <input type="checkbox"/> Slab <input type="checkbox"/> Other <input type="checkbox"/>	<b>Arrived at</b>	
		<b>Site:</b>	10:30am
		<b>Left Site:</b>	3:45pm

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

<u>Referenced Drawings</u>	<u>Date</u>	<u>Page</u>	<u>Rev.</u>	<u>ASTM</u>	<u>GRADE</u>
Barker	7/2/09	RO5	8/21/09	A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
Barker	6/23/09	RO1	8/21/09	A 616 <input type="checkbox"/>	75 <input type="checkbox"/>
				A 617 <input type="checkbox"/>	6"x6" WWF <input type="checkbox"/>
				A 706 <input type="checkbox"/>	

<u>CONCRETE PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Required mix used	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4000psi, 3/4"
Placement and consolidation of concrete observed	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pumped
Depth of layer maximum limits not exceeded	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	As required
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Removal of temporary ties and spacers	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Acceptable

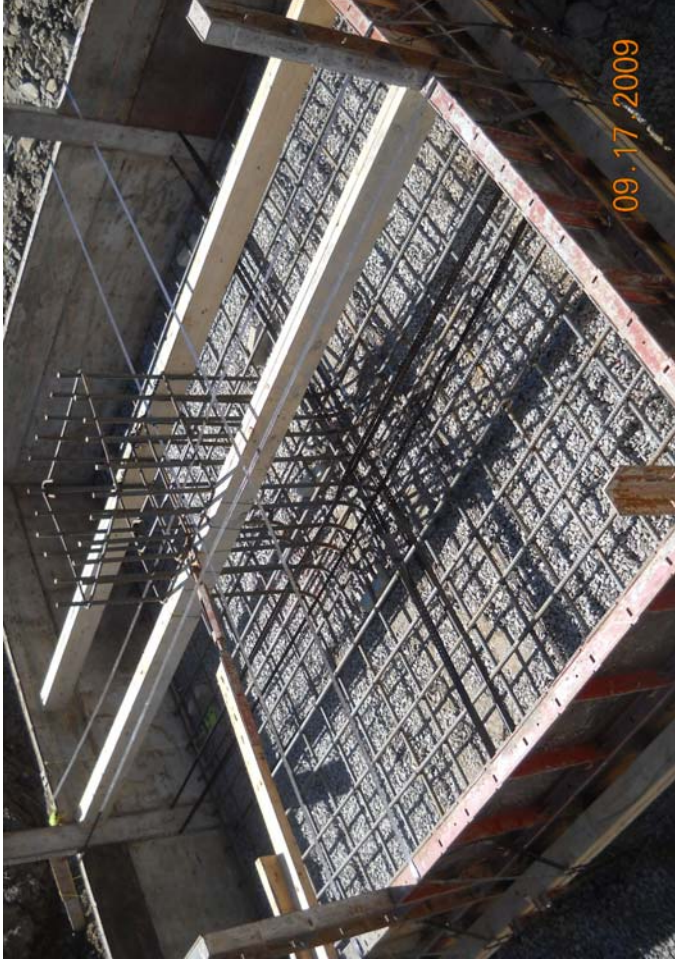
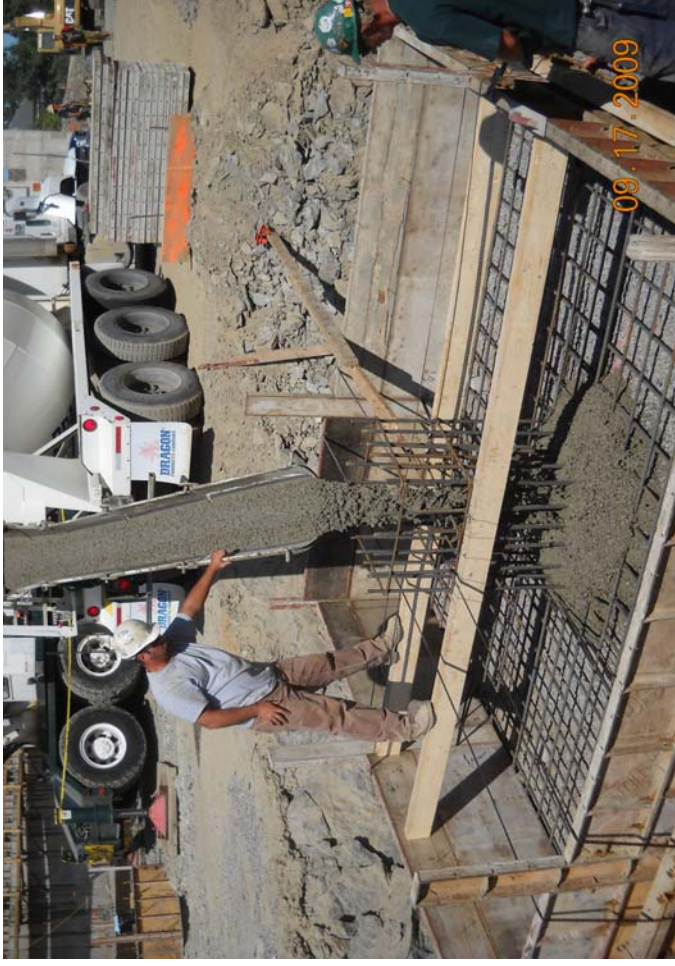
**FIELD TESTING OF CONCRETE PERFORMED** Yes  No   
 \*CYLINDER SET NO: 984-40 & 41 ←\*refer to associated concrete test report

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

**NON-CONFORMANCE ITEMS OBSERVED** Yes  No

Non-Conformance Item Description:  
 Action Taken by SWCE:  
 Persons Notified:

**Notes:**  
 Rebar installation appeared to be in conformance with job specifications. Concrete tests were within project specifications.





# Concrete Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	9-18-09
<b>Concrete Contractor:</b>	Newman Concrete	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Interior Footings : line B & C, line 10 to 12	<b>SWCE Rep.:</b>	VLT
<b>Placement Type:</b>	Footing <input checked="" type="checkbox"/> Wall <input type="checkbox"/> Column <input type="checkbox"/> Slab <input type="checkbox"/> Other <input type="checkbox"/>	<b>Arrived at</b>	
		<b>Site:</b>	11:30am
		<b>Left Site:</b>	5:00pm

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

<u>Referenced Drawings</u>	<u>Date</u>	<u>Page</u>	<u>Rev.</u>	<u>ASTM</u>	<u>GRADE</u>
Barker	8/31/09	R01		A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
				A 616 <input type="checkbox"/>	75 <input type="checkbox"/>
				A 617 <input type="checkbox"/>	
				A 706 <input type="checkbox"/>	6"x6" WWF <input type="checkbox"/>

<u>CONCRETE PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Required mix used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	4000psi, 3/4" w/ MRWR
Placement and consolidation of concrete observed	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Pump
Depth of layer maximum limits not exceeded	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Single
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	As required
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Removal of temporary ties and spacers	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	As required

**FIELD TESTING OF CONCRETE PERFORMED**      Yes       No

**\*CYLINDER SET NO:**      984 – 42 & 43      ←\*refer to associated concrete test report

<u>POST PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Specified finish	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	w/ Trowel
Protection of surfaces from cracking due to rapid drying	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Forms
Proper curing procedures implemented	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	

**NON-CONFORMANCE ITEMS OBSERVED**      Yes       No

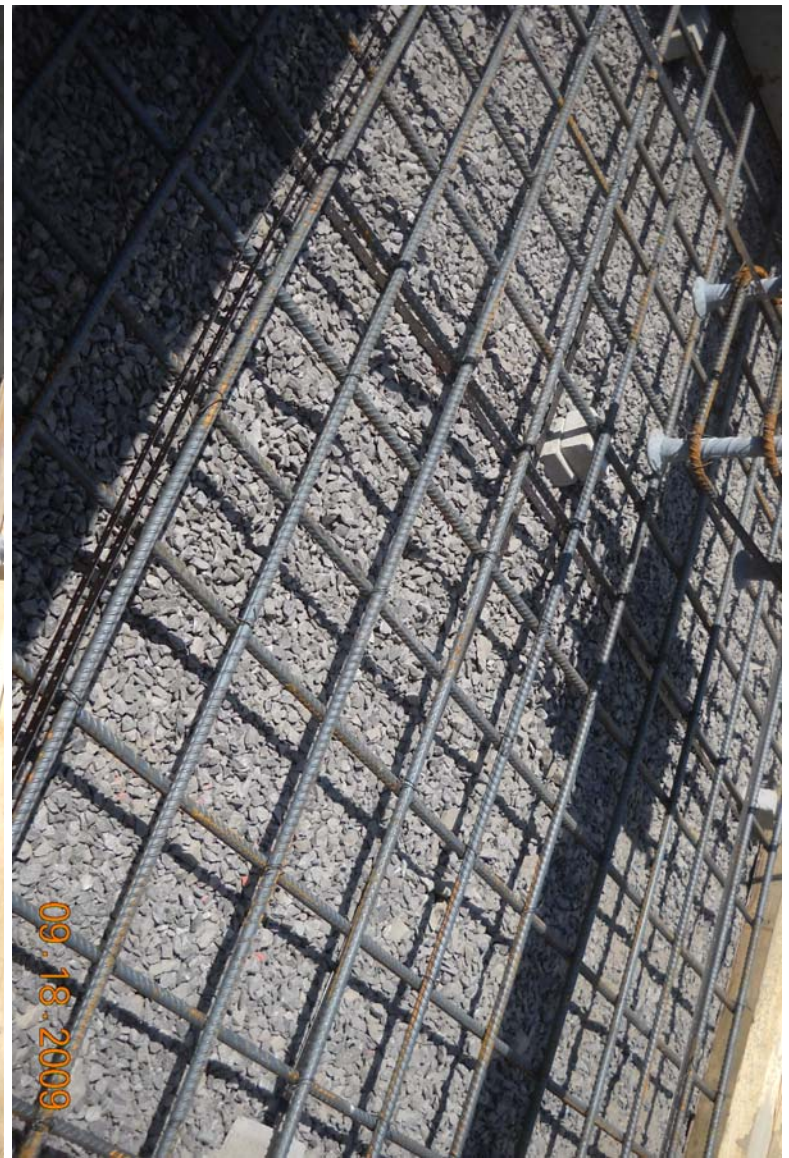
Non-Conformance Item Description: \_\_\_\_\_

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

Persons Notified: \_\_\_\_\_

**Notes:**







# Concrete Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	9-21-09
<b>Concrete Contractor:</b>	Newman Concrete	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Interior Piers : B/4, B/10, B/11 & B/12	<b>SWCE Rep.:</b>	RED
<b>Placement Type:</b>	Footing <input type="checkbox"/> Wall <input type="checkbox"/> Column <input checked="" type="checkbox"/> Slab <input type="checkbox"/> Other <input type="checkbox"/>	<b>Arrived at Site:</b>	3:00pm
		<b>Left Site:</b>	4:00pm

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

<u>Referenced Drawings</u>	<u>Date</u>	<u>Page</u>	<u>Rev.</u>	<u>ASTM</u>	<u>GRADE</u>
Barker	8/31/09	R01		A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
				A 616 <input type="checkbox"/>	75 <input type="checkbox"/>
				A 617 <input type="checkbox"/>	
				A 706 <input type="checkbox"/>	6"x6" WWF <input type="checkbox"/>

<u>CONCRETE PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Required mix used	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4000psi, 3/4"w/ HRWR
Placement and consolidation of concrete observed	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tailgate
Depth of layer maximum limits not exceeded	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Single
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	As required
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Removal of temporary ties and spacers	Yes <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A

**FIELD TESTING OF CONCRETE PERFORMED** Yes  No   
 \*CYLINDER SET NO: 984 - 44 ←\*refer to associated concrete test report

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

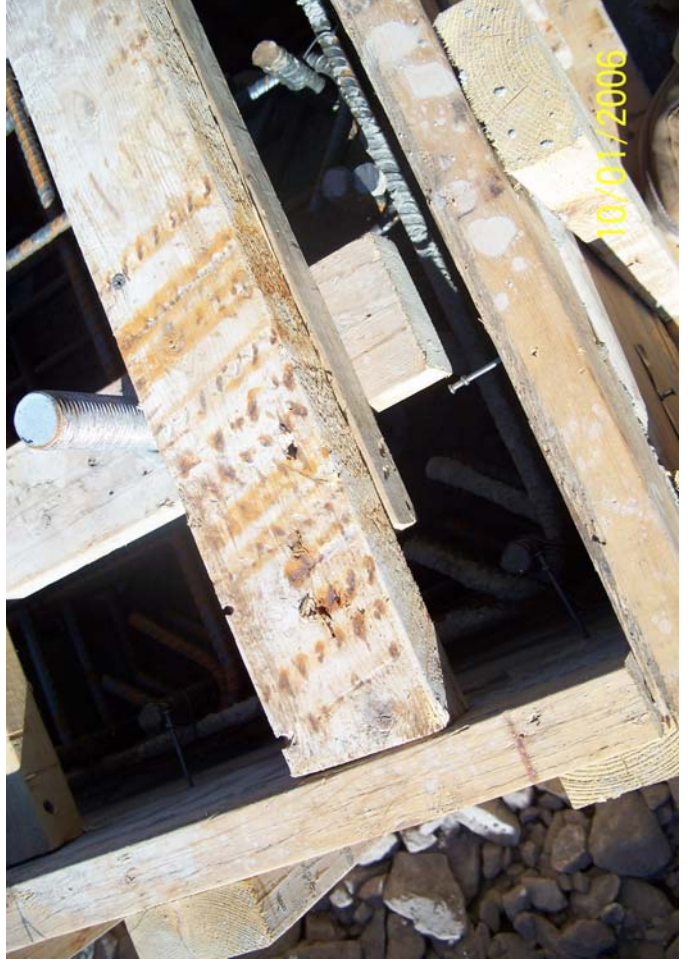
**NON-CONFORMANCE ITEMS OBSERVED** Yes  No

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

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

Persons Notified: \_\_\_\_\_

Notes:



**MATTHEW J. MILLER, P.E.**

STRUCTURAL ENGINEERING CONSULTANT

23 THORNBURY WAY  
WINDHAM, ME 04062  
207.232.2258**SPECIAL INSPECTIONS OF  
REINFORCED CONCRETE****Report No. 3-002**Project No.: 09012 Date: 09/22/09Project Name: Martin's Point MOB Special Inspections Time: 10:00 am - 11:15 amWeather: Partly SunnyPresent at Site: Tim Street (Pizzagalli), Jared Ballard (Pizzagalli), Matt MillerLocation(s) of Inspection: Foundation Wall Line D from Line 1 to 4. Foundation Wall Line 1 from Line C to D,  
Masonry Dowels Line A from Line 2 to 6

Item:	General Conformance	Non Conformance	Corrected while on site	N/A
1. Contractor using approved shop drawings for reinforcing layout	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Reinforcing Size, Grade, Spacing and Clear Distances	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Reinforcing Cleanliness: little or no rust, grease, form oil, excessive scaling, or dirt.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Support of reinforcing: use of chairs, bolsters, etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Stirrup spacing in beams.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Tie spacing in columns and/or piers.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Dowels properly placed and secured.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Reinforcing splices: proper length laps or mechanical splice.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Construction joints: clean, waterstop type, size, location, key depth and width.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Forms in place: clean, surface condition, oiled.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Formwork dimensions: depth and width	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Are proper curing means present on site for curing concrete placed. (curing compounds, burlap, sheets, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
13. Hot weather requirements.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
14. Cold weather requirements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15. Placement of Anchor Rods and/or other items to be embedded in concrete	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Comments:** Reference Item 2 above. Two non-conformance items were noted. The first item is in regards to a discrepancy to the beam pocket detail along line D found in J16/SF501 and the CD's and the approved shop drawings. The CD's indicates (3) #5's horizontal below the beam pocket on both faces (inside and outside) The approved shop drawings indicate these (3) bars are on the inside face only. The second item is in reference to the spacing of the masonry dowels along line A from 2 to 5. The as built spacing of the bars is 32" oc, where the CD's specify a 16" oc spacing.

Inspected By: **Matthew J. Miller, P.E.**

## Concrete Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	9-25-09
<b>Concrete Contractor:</b>	Newman Concrete	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Interior Footings : line B & C, line 5 to 8. Stair Tower "b" walls	<b>SWCE Rep.:</b>	VLT
<b>Placement Type:</b>	Footing <input checked="" type="checkbox"/> Wall <input checked="" type="checkbox"/> Column <input type="checkbox"/> Slab <input type="checkbox"/> Other <input type="checkbox"/>	<b>Arrived at Site:</b>	11:30am
		<b>Left Site:</b>	5:00pm

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

<u>Referenced Drawings</u>	<u>Date</u>	<u>Page</u>	<u>Rev.</u>	<u>ASTM</u>	<u>GRADE</u>
Barker	8/31/09	R01		A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
Barker	8/19/09	RO2		A 616 <input type="checkbox"/>	75 <input type="checkbox"/>
				A 617 <input type="checkbox"/>	
				A 706 <input type="checkbox"/>	6"x6" WWF <input type="checkbox"/>

<u>CONCRETE PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>	<u>N/O</u>	<u>Comments</u>
Required mix used	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	4000psi, 3/4"w/ MRWR
Placement and consolidation of concrete observed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	Pump
Depth of layer maximum limits not exceeded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	Single
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	As required
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Removal of temporary ties and spacers	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	As required

**FIELD TESTING OF CONCRETE PERFORMED**      Yes  No

**\*CYLINDER SET NO:**      984 – 46 & 47      ←\*refer to associated concrete test report

<u>POST PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>	<u>N/O</u>	<u>Comments</u>
Specified finish	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	w/ Trowel
Protection of surfaces from cracking due to rapid drying	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	Forms
Proper curing procedures implemented	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input checked="" type="checkbox"/>	

**NON-CONFORMANCE ITEMS OBSERVED**      Yes  No

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

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

Persons Notified: \_\_\_\_\_

**Notes:**





# Concrete Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	9-28-09
<b>Concrete Contractor:</b>	Newman Concrete	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Interior Piers: line B, 6 & 7.	<b>SWCE Rep.:</b>	VLT
<b>Placement Type:</b>	Footing <input type="checkbox"/> Wall <input type="checkbox"/> Column <input checked="" type="checkbox"/> Slab <input type="checkbox"/> Other <input type="checkbox"/>	<b>Arrived at Site:</b>	12:30pm
		<b>Left Site:</b>	2:00pm

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

<u>Referenced Drawings</u>	<u>Date</u>	<u>Page</u>	<u>Rev.</u>	<u>ASTM</u>	<u>GRADE</u>
Barker	8/31/09	R01		A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
				A 616 <input type="checkbox"/>	75 <input type="checkbox"/>
				A 617 <input type="checkbox"/>	
				A 706 <input type="checkbox"/>	6"x6" WWF <input type="checkbox"/>

<u>CONCRETE PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Required mix used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	4000psi, 3/4" w/ MRWR
Placement and consolidation of concrete observed	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Direct Discharge
Depth of layer maximum limits not exceeded	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Single
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	As required
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Removal of temporary ties and spacers	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	As required

**FIELD TESTING OF CONCRETE PERFORMED** Yes  No   
 \*CYLINDER SET NO: 984 – 48 ←\*refer to associated concrete test report

<u>POST PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Specified finish	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	w/ Trowel
Protection of surfaces from cracking due to rapid drying	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Forms
Proper curing procedures implemented	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	

**NON-CONFORMANCE ITEMS OBSERVED** Yes  No

Non-Conformance Item Description: \_\_\_\_\_  
 Action Taken by SWCE: \_\_\_\_\_  
 Persons Notified: \_\_\_\_\_

**Notes:**

Attachments: Photos

Reviewed By: RED







# Concrete Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	9-29-09
<b>Concrete Contractor:</b>	Newman Concrete	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Walls: line D, 2 to 1. Line 1 D to C.3. Interior footing: line 9, B to C	<b>SWCE Rep.:</b>	VLT
<b>Placement Type:</b>	Footing <input checked="" type="checkbox"/> Wall <input checked="" type="checkbox"/> Column <input type="checkbox"/> Slab <input type="checkbox"/> Other <input type="checkbox"/>	<b>Arrived at Site:</b>	12:30pm
		<b>Left Site:</b>	4:15pm

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

<u>Referenced Drawings</u>	<u>Date</u>	<u>Page</u>	<u>Rev.</u>	<u>ASTM</u>	<u>GRADE</u>
Barker	8/21/09	R05		A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
Barker	7/30	RO6		A 616 <input type="checkbox"/>	75 <input type="checkbox"/>
				A 617 <input type="checkbox"/>	
				A 706 <input type="checkbox"/>	6"x6" WWF <input type="checkbox"/>

<u>CONCRETE PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Required mix used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	4000psi, 3/4"w/ MRWR
Placement and consolidation of concrete observed	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Pump & Conveyor
Depth of layer maximum limits not exceeded	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	As required
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	As required
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Removal of temporary ties and spacers	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	As required

<u>FIELD TESTING OF CONCRETE PERFORMED</u>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
*CYLINDER SET NO: 984 – 49 & 50		

←\*refer to associated concrete test report

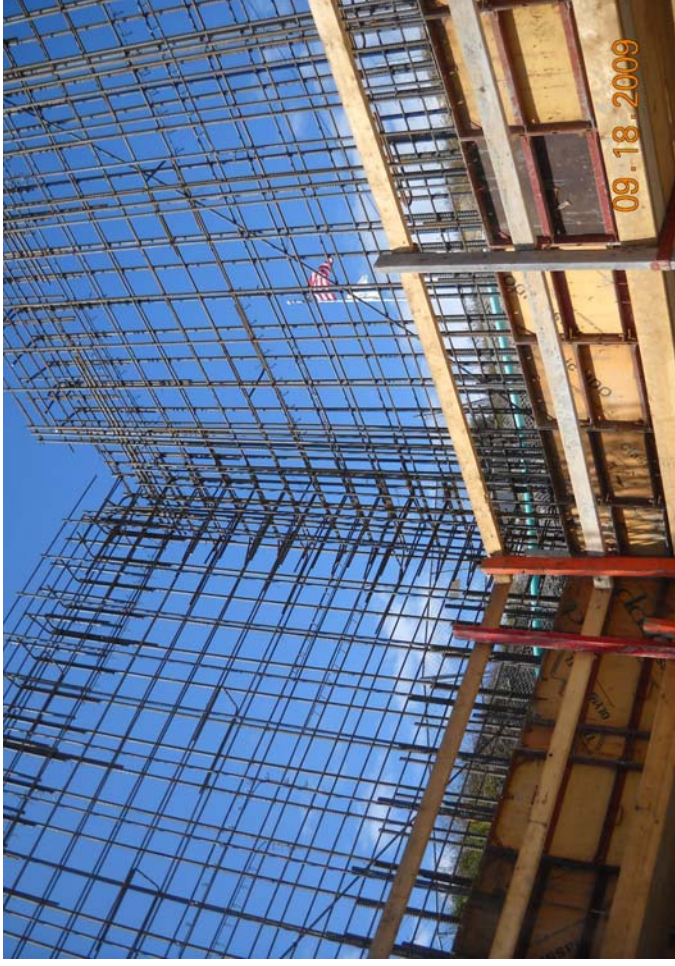
<u>POST PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Specified finish	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	w/ Trowel
Protection of surfaces from cracking due to rapid drying	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Forms
Proper curing procedures implemented	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	

<u>NON-CONFORMANCE ITEMS OBSERVED</u>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Non-Conformance Item Description:		

Action Taken by SWCE:

Persons Notified:

**Notes:**  
Interior footings placed using a conveyor. Walls placed using a pump.



## Concrete Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	10-1-09
<b>Concrete Contractor:</b>	Newman Concrete	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Walls: Line 13, C.3 to B	<b>SWCE Rep.:</b>	VLT
<b>Placement Type:</b>	Footing <input type="checkbox"/> Wall <input checked="" type="checkbox"/> Column <input type="checkbox"/> Slab <input type="checkbox"/> Other <input type="checkbox"/>	<b>Arrived at Site:</b>	2:30pm
		<b>Left Site:</b>	4:45pm

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

<u>Referenced Drawings</u>	<u>Date</u>	<u>Page</u>	<u>Rev.</u>	<u>ASTM</u>	<u>GRADE</u>
Barker	7/20	R08		A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
Barker	7/20	R09		A 616 <input type="checkbox"/>	75 <input type="checkbox"/>
				A 617 <input type="checkbox"/>	
				A 706 <input type="checkbox"/>	6"x6" WWF <input type="checkbox"/>

<u>CONCRETE PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>	<u>N/O</u>	<u>Comments</u>
Required mix used	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	4000psi, 3/4"w/ MRWR
Placement and consolidation of concrete observed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	Pump & Conveyor
Depth of layer maximum limits not exceeded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	As required
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	As required
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Removal of temporary ties and spacers	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	As required

**FIELD TESTING OF CONCRETE PERFORMED**      Yes  No

\*CYLINDER SET NO:      984 – 51      ←\*refer to associated concrete test report

<u>POST PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>	<u>N/O</u>	<u>Comments</u>
Specified finish	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	w/ Trowel
Protection of surfaces from cracking due to rapid drying	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	Forms
Proper curing procedures implemented	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input checked="" type="checkbox"/>	

**NON-CONFORMANCE ITEMS OBSERVED**      Yes  No

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

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

Persons Notified: \_\_\_\_\_

**Notes:**  
 SWCE provided most updated rebar drawings per conversation with Pizzagalli.





# Concrete Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	10-12-09
<b>Concrete Contractor:</b>	Newman Concrete	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Elevated Footing line 1, D to C.3. line 13, between B & A.	<b>SWCE Rep.:</b>	VLT
<b>Placement Type:</b>	Footing <input checked="" type="checkbox"/> Wall <input type="checkbox"/> Column <input type="checkbox"/> Slab <input type="checkbox"/> Other <input type="checkbox"/>	<b>Arrived at Site:</b>	8:30am
		<b>Left Site:</b>	12:45pm

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

<u>Referenced Drawings</u>	<u>Date</u>	<u>Page</u>	<u>Rev.</u>	<u>ASTM</u>	<u>GRADE</u>
Barker	7/2	R06	8/21	A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
Barker	7/20	RO9		A 616 <input type="checkbox"/>	75 <input type="checkbox"/>
RFI #39				A 617 <input type="checkbox"/>	
				A 706 <input type="checkbox"/>	6"x6" WWF <input type="checkbox"/>

<u>CONCRETE PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Required mix used	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4000psi, 3/4"w/ MRWR
Placement and consolidation of concrete observed	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pumped
Depth of layer maximum limits not exceeded	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	As required
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	As required
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Removal of temporary ties and spacers	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	As required

**FIELD TESTING OF CONCRETE PERFORMED**      Yes       No   
 \*CYLINDER SET NO:      984 - 52      ←\*refer to associated concrete test report

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

**NON-CONFORMANCE ITEMS OBSERVED**      Yes       No

Non-Conformance Item Description:  
 Action Taken by SWCE:  
 Persons Notified:

**Notes:**  
 RFI #39 approved use of mechanical couplers from wall to elevated footing for ramp outside line 1.





# Concrete Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	12-29-09
<b>Concrete Contractor:</b>	Newman Concrete	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Slab on deck: 3 <sup>rd</sup> floor line A to D, line 13 to 7	<b>SWCE Rep.:</b>	VLT
<b>Placement Type:</b>	Footing <input type="checkbox"/> Wall <input type="checkbox"/> Column <input type="checkbox"/> Slab <input checked="" type="checkbox"/> Other <input type="checkbox"/>	<b>Arrived at Site:</b>	6:15am
		<b>Left Site:</b>	2:15pm

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

<u>Referenced Drawings</u>	<u>Date</u>	<u>Page</u>	<u>Rev.</u>	<u>ASTM</u>	<u>GRADE</u>
Barker	8/21	R10	10/30	A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
				A 616 <input type="checkbox"/>	75 <input type="checkbox"/>
				A 617 <input type="checkbox"/>	
				A 706 <input type="checkbox"/>	6"x6" WWF <input checked="" type="checkbox"/>

<u>CONCRETE PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Required mix used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	4000psi, 3/4"w/ MRWR
Placement and consolidation of concrete observed	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Pumped
Depth of layer maximum limits not exceeded	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	As required
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Vibratory screed
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Removal of temporary ties and spacers	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	N/A

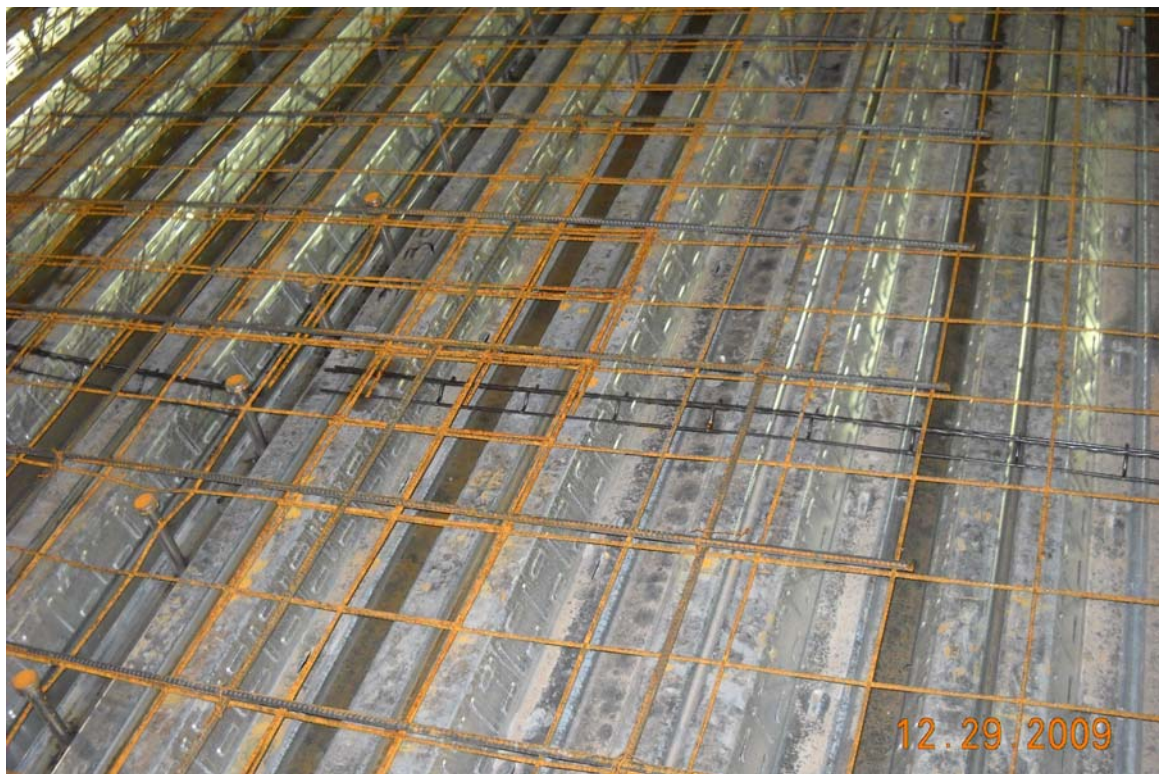
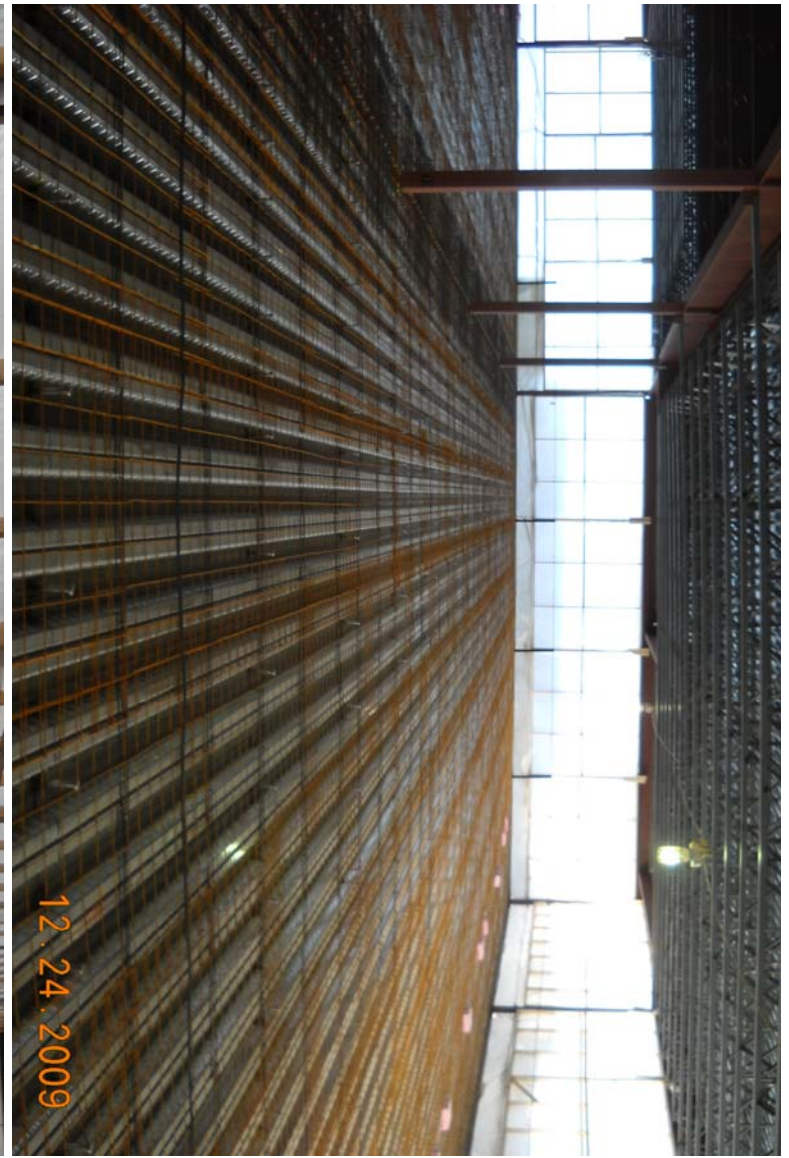
**FIELD TESTING OF CONCRETE PERFORMED** Yes  No   
 \*CYLINDER SET NO: 984 - 63 to 68 ←\*refer to associated concrete test report

<u>POST PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Specified finish	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	w/ Mechanical Screed
Protection of surfaces from cracking due to rapid drying	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	
Proper curing procedures implemented	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	

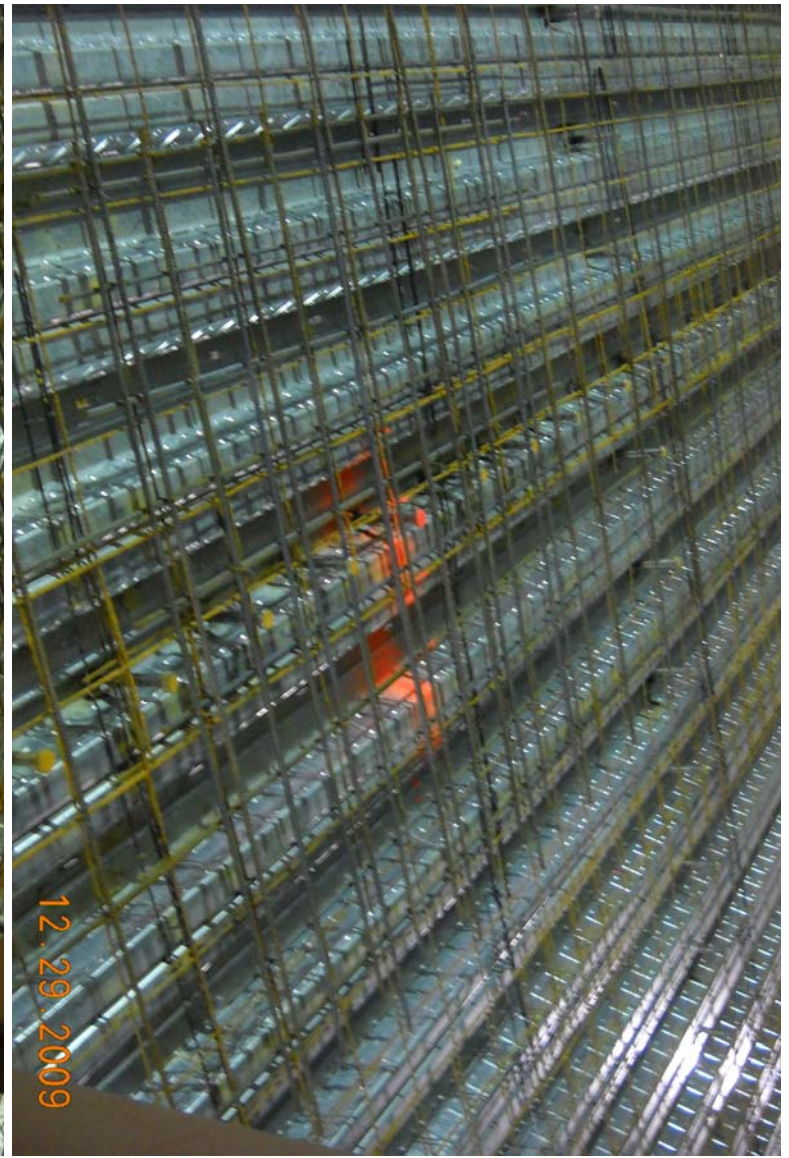
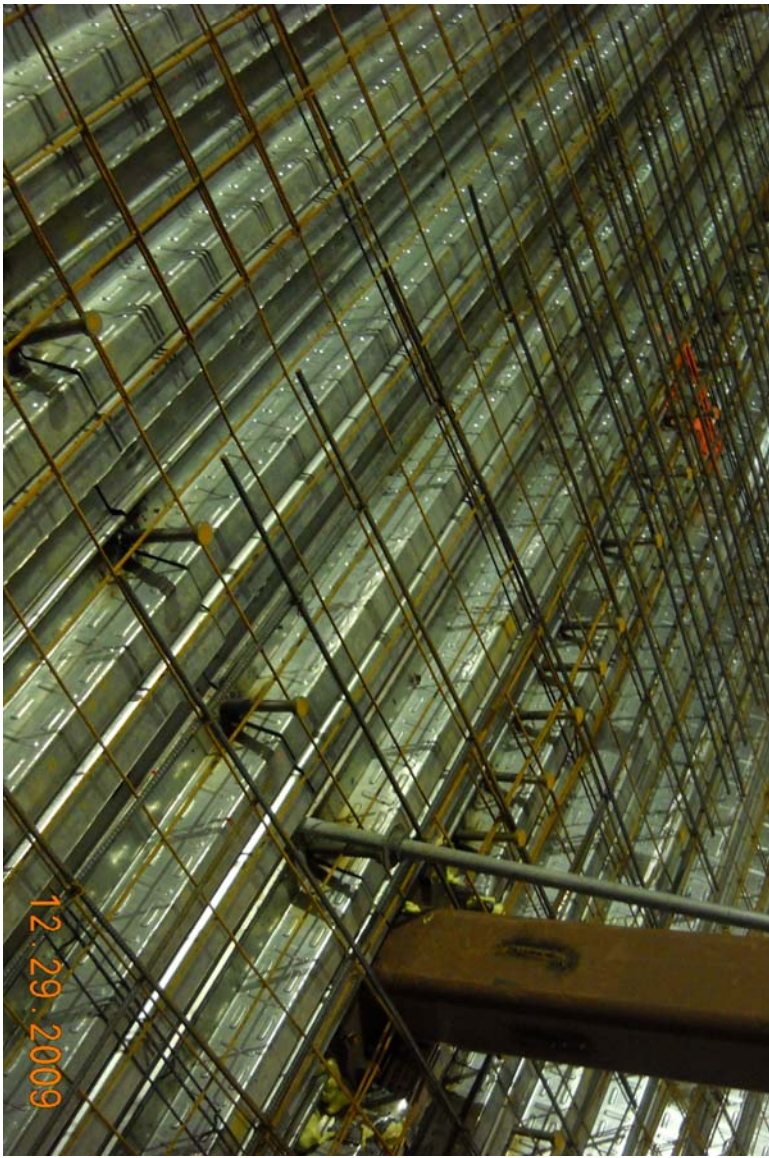
**NON-CONFORMANCE ITEMS OBSERVED** Yes  No

Non-Conformance Item Description:  
 Action Taken by SWCE:  
 Persons Notified:

**Notes:**  
 Slump loss approximately 1" from pump to end of pump line. Air test results 1.7% to 2.3%. Newman Concrete ordered accelerator, Pozzutec 20 1% in every load. Placement area covered and heated. SWCE recommended Pizzagalli contact SMRT with questions about moisture curing slabs.







## Concrete Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	1-7-10
<b>Concrete Contractor:</b>	Newman Concrete	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Slab on deck: 3 <sup>rd</sup> floor line A to D, line 8.5 to 1	<b>SWCE Rep.:</b>	VLT
<b>Placement Type:</b>	Footing <input type="checkbox"/> Wall <input type="checkbox"/> Column <input type="checkbox"/> Slab <input checked="" type="checkbox"/> Other <input type="checkbox"/>	<b>Arrived at Site:</b>	7:00am
		<b>Left Site:</b>	2:15pm

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

<u>Referenced Drawings</u>	<u>Date</u>	<u>Page</u>	<u>Rev.</u>	<u>ASTM</u>	<u>GRADE</u>
Barker	8/21	R10	10/30	A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
SMRT		SF504		A 616 <input type="checkbox"/>	75 <input type="checkbox"/>
				A 617 <input type="checkbox"/>	
				A 706 <input type="checkbox"/>	6"x6" WWF <input checked="" type="checkbox"/>

<u>CONCRETE PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>	<u>N/O</u>	<u>Comments</u>
Required mix used	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	4000psi, 3/4" w/ MRWR
Placement and consolidation of concrete observed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	Pumped
Depth of layer maximum limits not exceeded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	As required
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	Vibratory screed
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Removal of temporary ties and spacers	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	N/A

**FIELD TESTING OF CONCRETE PERFORMED**

\*CYLINDER SET NO: 984 – 73 to 79      Yes  No

←\*refer to associated concrete test report

<u>POST PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>	<u>N/O</u>	<u>Comments</u>
Specified finish	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	w/ Mechanical Screed
Protection of surfaces from cracking due to rapid drying	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input checked="" type="checkbox"/>	
Proper curing procedures implemented	Yes <input type="checkbox"/> No <input type="checkbox"/>	<input checked="" type="checkbox"/>	

**NON-CONFORMANCE ITEMS OBSERVED**

Yes  No

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

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

Persons Notified: \_\_\_\_\_

**Notes:**

Slump loss approximately 1" from pump to end of pump line. Air test results 1.8% to 2.4%. Newman Concrete ordered accelerator, Pozzutec 20 1% in 1<sup>st</sup> 200 cubic yards and Pozzutec 20 2% in last 160 cubic yards. Placement area covered and heated. Newman Concrete installed extra rebar at bond outs per Pizzagalli prior to concrete placement. Vibrator used at expansion joint along line 8.5.

Attachments: Photos

Reviewed By: RED





## CONSTRUCTION REPORT

**Project:** Martin's Point Healthcare Building and Parking Garage

**SWCE Project No.:** 05-0927.4

**Client:** Martin's Point Healthcare

**Date:** 1-11-10

**Client's Rep.:** Gene Gilles

**Work in Progress:** Maine Masonry working on 2<sup>nd</sup> level.

**Work Performed by SWC Rep.:** Concrete curing observations of the 3<sup>rd</sup> level deck slab.

**General Observations, Discussions, Etc:** SWCE was on-site to make observations of concrete curing on the 3<sup>rd</sup> level deck slabs placed on 12-29-09 and 1-7-10. Upon arrival SWCE met with Tim Street and Dave Provencher of Pizzagalli to discuss curing and protection measures for the 3<sup>rd</sup> level deck slabs sections placed on 12-29-09 and 1-7-09. Pizzagalli indicated that each placement was cured by wetting the slab with hoses, covering the slab and perimeter wall openings with sheet poly and providing external heat from the 2<sup>nd</sup> level and maintaining those conditions for a minimum of 7 days. Pizzagalli indicated that ambient temperature was typically measured in the 50<sup>0</sup>'s on the 3<sup>rd</sup> level during the curing period. We observed sheet poly around the entire 3<sup>rd</sup> level at the wall perimeter and on the floor surface of the slab section placed on 1-7-10 (A to D lines between 1 and 8.5 lines). Insulation blankets were in place along the slab perimeter. The floor surface was wet. The ambient and concrete surface temperatures were 50<sup>0</sup> or greater throughout the 3<sup>rd</sup> level. The sheet poly had been removed from the 12-29-09 section prior to our site visit.

SWCE and Pizzagalli discussed coordination of masonry testing requirements for grout, CMU's and masonry prisms with Glen Rich from Maine Masonry. Maine Masonry stated they would notify Pizzagalli of schedule for grouting on a daily basis.

**Attachments:** Photos

**Sheet:** 1 of 1

**SWC Rep.:** RED

**Rev. by:** MFB

P:\2005\05-0927.4 M - Martin's Point Healthcare, Inc - Portland, ME - Martin's Point Healthcare Building & Parking Garage - RED\DFR's\DFR 1-11-10.doc

GRAY, ME OFFICE

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

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





## Concrete Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	1-14-10
<b>Concrete Contractor:</b>	Newman Concrete	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Slab on deck: Roof slabs at Penthouse, HVAC air handling units & Chiller Pad	<b>SWCE Rep.:</b>	VLT
<b>Placement Type:</b>	Footing <input type="checkbox"/> Wall <input type="checkbox"/> Column <input type="checkbox"/> Slab <input checked="" type="checkbox"/> Other <input type="checkbox"/>	<b>Arrived at Site:</b>	7:00am
		<b>Left Site:</b>	2:15pm

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

<u>Referenced Drawings</u>	<u>Date</u>	<u>Page</u>	<u>Rev.</u>	<u>ASTM</u>	<u>GRADE</u>
SMRT		SF504		A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
				A 616 <input type="checkbox"/>	75 <input type="checkbox"/>
				A 617 <input type="checkbox"/>	
				A 706 <input type="checkbox"/>	6"x6" WWF <input checked="" type="checkbox"/>

<u>CONCRETE PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Required mix used	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4000psi, 3/4"w/ MRWR, pozzutec 20 2 %
Placement and consolidation of concrete observed	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pumped
Depth of layer maximum limits not exceeded	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	As required
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vibratory screed
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Removal of temporary ties and spacers	Yes <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A

**FIELD TESTING OF CONCRETE PERFORMED**      Yes       No

**\*CYLINDER SET NO:**      984 – 87 & 88      ←\*refer to associated concrete test report

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

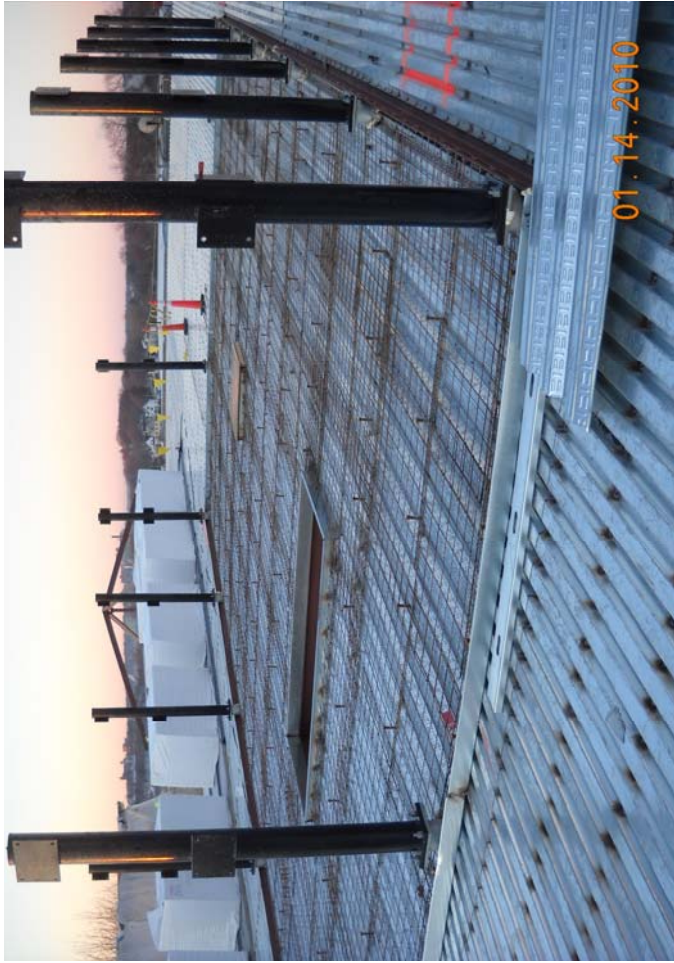
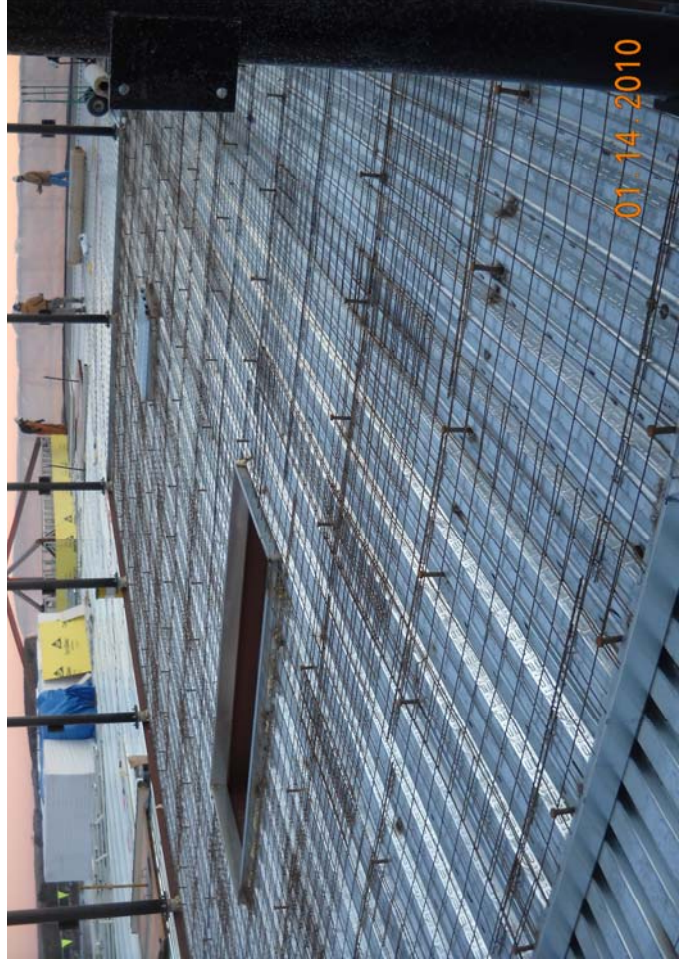
**NON-CONFORMANCE ITEMS OBSERVED**      Yes       No

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

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

Persons Notified: \_\_\_\_\_

**Notes:**  
 Slump loss approximately 1" from pump to end of pump line. Air test results less than 3% for 1<sup>st</sup> 30 yards placed at penthouse and at 6% air for HVAC & chiller pads last 50 yards. Slabs heated from below. Temperatures of deck monitored by Pizzagalli prior to concrete placement. Slabs covered with thermal blankets immediately at Air handling units and chiller pad.





## Concrete Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	4-23-10
<b>Concrete Contractor:</b>	Newman Concrete	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Entry walls & piers: line D, from 6 to 7	<b>SWCE Rep.:</b>	VLT
<b>Placement Type:</b>	Footing <input type="checkbox"/> Wall <input checked="" type="checkbox"/> Column <input type="checkbox"/> Slab <input type="checkbox"/> Other <input checked="" type="checkbox"/>	<b>Arrived at Site:</b>	1:40
		<b>Left Site:</b>	3:00pm

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

<u>Referenced Drawings</u>	<u>Date</u>	<u>Page</u>	<u>Rev.</u>	<u>ASTM</u>	<u>GRADE</u>
SMRT		SF501		A 615 <input checked="" type="checkbox"/> A 616 <input type="checkbox"/> A 617 <input type="checkbox"/> A 706 <input type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/> 75 <input type="checkbox"/> 6"x6" WWF <input type="checkbox"/>

<u>CONCRETE PLACEMENT OBSERVATIONS</u>	<u>In Compliance</u>		<u>N/O</u>	<u>Comments</u>
Required mix used	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4000psi, 3/4"w/ MRWR,
Placement and consolidation of concrete observed	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Direct discharge
Depth of layer maximum limits not exceeded	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	As required
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mechanical vibrator
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Acceptable
Removal of temporary ties and spacers	Yes <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A

**FIELD TESTING OF CONCRETE PERFORMED**      Yes       No

\*CYLINDER SET NO:      984 – 104      ←\*refer to associated concrete test report

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

**NON-CONFORMANCE ITEMS OBSERVED**      Yes       No

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

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

Persons Notified: \_\_\_\_\_

**Notes:**  
 SWCE tested 1<sup>st</sup> load with results of 4" slump, 6.0% air, and concrete temp. of 65°F. Rebar appeared to be installed as designed. Vertical dowels for slab will be wet stuck per Newman Concrete.



**MATTHEW J. MILLER, P.E.**

STRUCTURAL ENGINEERING CONSULTANT

23 THORNBURY WAY  
WINDHAM, ME 04062  
207.232.2258

**SPECIAL INSPECTIONS OF  
CONCRETE**

**Report No. 3-006**

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Project No.: 09012 Date: 06/18/2010  
Project Name: Martin's Point MOB Special Inspections Time: 9:00 am - 9:30am  
Weather: Sunny, 75 degrees  
Present at Site: Tim Street (Pizzagalli), Matthew Miller  
Location(s) of Inspection: Floor Infill per NC-005

---

**Comments:** I visited the site to review the completed infills of the floor bond outs per SMRT response to NC-005. The infills were in conformance with the sketch provided by SMRT dated 03/18/2010.

**Inspected By:** Matthew J. Miller, P.E.

**Tab 8**



# Report of Concrete Compressive Strength

ASTM C-31 & C-39

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

## PLACEMENT INFORMATION

**Date Cast:** 7/21/2009      **Time Cast:** 11:30      **Date Received:** 7/22/2009

**Placement Location:** FOOTING: LINE D, 13 TO 10      LINE 13, C TO D

**Placement Method:** PUMP

**Placement Vol. (yd³):** 140

**Cylinders Made By:** VLT

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

## INITIAL CURING CONDITIONS

### Temperatures

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

## DELIVERY INFORMATION

**Admixtures:** GLENIUM MID RANGE

## TEST RESULTS

**Slump (in) (C-143):**      **Slump WR:** 4.5

**Load Number:** 4

**Air Content (%) (C-231):**      **Air WR:** 6.3

**Mixer Number:** 192

**Air Temp (°F):** 73

**Ticket Number:** 3932329

**Conc. Temp (°F) (C-1064):** 76

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-1A		4.00	12.57	7/28/2009	Lab	7	4	54.2	4310
984-1B		4.00	12.57	8/18/2009	Lab	28	4	70.0	5570
984-1C		4.00	12.57	8/18/2009	Lab	28	4	64.2	5110
984-1D				Hold	Lab				

### Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks:



# Report of Concrete Compressive Strength

ASTM C-31 & C-39

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

## PLACEMENT INFORMATION

**Date Cast:** 7/21/2009      **Time Cast:** 12:30      **Date Received:** 7/22/2009

**Placement Location:** FOOTING: LINE D, 13 TO 10      LINE 13, C TO D

**Placement Method:** PUMP

**Placement Vol. (yd³):** 140

**Cylinders Made By:** VLT

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

## INITIAL CURING CONDITIONS

### Temperatures

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

## DELIVERY INFORMATION

**Admixtures:** GLENIUM MID RANGE

## TEST RESULTS

**Slump (in) (C-143):**      **Slump WR:** 5 3/4  
**Air Content (%) (C-231):**      **Air WR:** 6.0  
**Air Temp (°F):** 73  
**Conc. Temp (°F) (C-1064):** 77

**Load Number:** 7  
**Mixer Number:** 177  
**Ticket Number:** 3932332  
**Cubic Yards:** 10  
**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-2A		4.00	12.57	7/28/2009	Lab	7	4	49.0	3900
984-2B		4.00	12.57	8/18/2009	Lab	28	4	69.4	5520
984-2C		4.00	12.57	8/18/2009	Lab	28	4	71.4	5680
984-2D				Hold	Lab				

### Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks:



# Report of Concrete Compressive Strength

ASTM C-31 & C-39

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

## PLACEMENT INFORMATION

**Date Cast:** 7/21/2009      **Time Cast:** 1:48      **Date Received:** 7/22/2009

**Placement Location:** FOOTING: LINE D, 13 TO 10      LINE 13, C TO D

**Placement Method:** PUMP

**Placement Vol. (yd³):** 140

**Cylinders Made By:** VLT

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

## INITIAL CURING CONDITIONS

### Temperatures

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

## DELIVERY INFORMATION

**Admixtures:** GLENIUM MID RANGE

## TEST RESULTS

**Slump (in) (C-143):**      **Slump WR:** 5  
**Air Content (%) (C-231):**      **Air WR:** 5.7  
**Air Temp (°F):** 72  
**Conc. Temp (°F) (C-1064):** 77

**Load Number:** 11  
**Mixer Number:** 177  
**Ticket Number:** 3932336  
**Cubic Yards:** 10  
**Design (psi):** 4000

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)
984-3A		4.00	12.57	7/28/2009	Lab	7	4	51.8	4120
984-3B		4.00	12.57	8/18/2009	Lab	28	4	76.4	6080
984-3C		4.00	12.57	8/18/2009	Lab	28	4	72.2	5750
984-3D				Hold	Lab				

### Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks:

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**
**General Contractor:**
**Concrete Supplier:** DRAGON PRODUCTS

**PLACEMENT INFORMATION**
**Date Cast:** 7/30/2009      **Time Cast:** 9:45

**Date Received:** 7/31/2009

**Placement Location:** FOOTING LINE D, 10 TO 7

**Placement Method:** CONVEYOR\*

**Placement Vol. (yd³):** 110

**Cylinders Made By:** VLT

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

**INITIAL CURING CONDITIONS**
**Temperatures**
**Minimum (°F)**                      **Maximum (°F)**
**DELIVERY INFORMATION**
**Admixtures:** MRWR

**TEST RESULTS**
**Slump (in) (C-143):**                      **Slump WR:** 5

**Load Number:** 3

**Air Content (%) (C-231):**                      **Air WR:** 5.1

**Mixer Number:** 190

**Air Temp (°F):** 80

**Ticket Number:** 3932377

**Conc. Temp (°F) (C-1064):** 77

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-4A		4.00	12.57	8/6/2009	Lab	7	4	51.2	4080
984-4B		4.00	12.57	8/27/2009	Lab	28	4	67.0	5330
984-4C		4.00	12.57	8/27/2009	Lab	28	4	71.0	5650
984-4D				Hold	Lab				

Fracture Types


Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks: \* NEWMAN CONCRETE



**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 7/30/2009      **Time Cast:** 10:45      **Date Received:** 7/31/2009

**Placement Location:** FOOTING LINE D, 10 TO 7

**Placement Method:** CONVEYOR\*

**Placement Vol. (yd<sup>3</sup>):** 110

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** MRWR

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 5

**Load Number:** 7

**Air Content (%) (C-231):**                      **Air WR:** 5.1

**Mixer Number:** 177

**Air Temp (°F):** 81

**Ticket Number:** 3932381

**Conc. Temp (°F) (C-1064):** 78

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-5A		4.00	12.57	8/6/2009	Lab	7	4	51.4	4090
984-5B		4.00	12.57	8/27/2009	Lab	28	4	64.0	5090
984-5C		4.00	12.57	8/27/2009	Lab	28	4	66.0	5250
984-5D				Hold	Lab				

#### Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks: \* NEWMAN CONCRETE

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 7/30/2009      **Time Cast:** 11:35

**Date Received:** 7/31/2009

**Placement Location:** FOOTING LINE D, 10 TO 7

**Placement Method:** CONVEYOR\*

**Placement Vol. (yd<sup>3</sup>):** 110

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

**Temperatures**

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

### DELIVERY INFORMATION

**Admixtures:** MRWR

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 4 3/4

**Air Content (%) (C-231):**                      **Air WR:** 5.6

**Air Temp (°F):** 83

**Conc. Temp (°F) (C-1064):** 80

**Load Number:** 11

**Mixer Number:** 176

**Ticket Number:** 3932385

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area (in) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-6A		4.00	12.57	8/6/2009	Lab	7	4	44.8	3570
984-6B		4.00	12.57	8/27/2009	Lab	28	4	56.0	4460
984-6C		4.00	12.57	8/27/2009	Lab	28	4	59.0	4700
984-6D				Hold	Lab				

Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks: \* NEWMAN CONCRETE

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 7/31/2009      **Time Cast:** 10:45      **Date Received:** 8/3/2009

**Placement Location:** WALL LINE D, 13 + 0, 10 TO ELEV. 84+/-

**Placement Method:** CONVEYOR\*

**Placement Vol. (yd<sup>3</sup>):** 54.5

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

**Temperatures**

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

### DELIVERY INFORMATION

**Admixtures:** MRWR - GLENIUM

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 5

**Load Number:** 2

**Air Content (%) (C-231):**                      **Air WR:** 5.4

**Mixer Number:** 176

**Air Temp (°F):** 74

**Ticket Number:** 3932397

**Conc. Temp (°F) (C-1064):** 80

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area (in) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-7A		4.00	12.57	8/7/2009	Lab	7	4	50.4	4010
984-7B		4.00	12.57	8/28/2009	Lab	28	4	67.5	5370
984-7C		4.00	12.57	8/28/2009	Lab	28	4	65.2	5190
984-7D				Hold	Lab				

Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks: \* NEWMAN CONCRETE

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**
**General Contractor:**
**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 8/3/2009      **Time Cast:** 11:06      **Date Received:** 8/4/2009

**Placement Location:** FOOTING: LINE A, 13 TO 9

**Placement Method:** CONVEYOR\*

**Placement Vol. (yd<sup>3</sup>):** 80

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** MRWR - GLENIUM

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 5 3/4

**Load Number:** 3

**Air Content (%) (C-231):**                      **Air WR:** 5.2

**Mixer Number:** 176

**Air Temp (°F):** 81

**Ticket Number:** 3932406

**Conc. Temp (°F) (C-1064):** 80

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-8A		4.00	12.57	8/10/2009	Lab	7	4	50.4	4010
984-8B		4.00	12.57	8/31/2009	Lab	28	4	62.0	4930
984-8C		4.00	12.57	8/31/2009	Lab	28	4	64.8	5160
984-8D				9/28/2009	Lab	56			

#### Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks: \* NEWMAN CONCRETE

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**
**General Contractor:**
**Concrete Supplier:** DRAGON PRODUCTS

**PLACEMENT INFORMATION**
**Date Cast:** 8/3/2009      **Time Cast:** 12:20      **Date Received:** 8/4/2009

**Placement Location:** FOOTING: LINE A, 13 TO 9

**Placement Method:** CONVEYOR\*

**Placement Vol. (yd<sup>3</sup>):** 80

**Cylinders Made By:** VLT

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

**INITIAL CURING CONDITIONS**
**Temperatures**
**Minimum (°F)**      **Maximum (°F)**
**DELIVERY INFORMATION**
**Admixtures:** MRWR - GLENIUM

**TEST RESULTS**
**Slump (in) (C-143):**      **Slump WR:** 5 1/4

**Load Number:** 6

**Air Content (%) (C-231):**      **Air WR:** 5.4

**Mixer Number:** 176

**Air Temp (°F):** 83

**Ticket Number:** 3932409

**Conc. Temp (°F) (C-1064):** 81

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-9A		4.00	12.57	8/10/2009	Lab	7	4	49.4	3930
984-9B		4.00	12.57	8/31/2009	Lab	28	4	61.0	4860
984-9C		4.00	12.57	8/31/2009	Lab	28	4	56.2	4470
984-9D				9/28/2009	Lab	56			

**Fracture Types**


Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks: \* NEWMAN CONCRETE

## Report of Concrete Compressive Strength

ASTM C-31 &amp; C-39

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**
**General Contractor:**
**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 8/4/2009      **Time Cast:** 2:10      **Date Received:** 8/5/2009

**Placement Location:** ELEVATOR PIT FOOTING WALL LINE D, 13 TO 12. WALL LINE 13, D TO C.3

**Placement Method:** CONVEYOR\*

**Placement Vol. (yd<sup>3</sup>):** 50

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** MRWR

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 4.5

**Load Number:** 2

**Air Content (%) (C-231):**                      **Air WR:** 5.5

**Mixer Number:** 176

**Air Temp (°F):** 81

**Ticket Number:** 3932425

**Conc. Temp (°F) (C-1064):** 82

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-10A		4.00	12.57	8/11/2009	Lab	7	4	50.2	4000
984-10B		4.00	12.57	9/1/2009	Lab	28	4	72.8	5790
984-10C		4.00	12.57	9/1/2009	Lab	28	4	68.0	5410
984-10D				Hold	Lab				

#### Fracture Types


 1  
Cone

 2  
Cone and Split

 3  
Cone and Shear

 4  
Shear

 5  
Columnar

Remarks:

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 8/10/2009      **Time Cast:** 11:35      **Date Received:** 8/11/2009

**Placement Location:** FOOTING: LINE D, LINE 7 TO CORNER

**Placement Method:** CONVEYOR\*

**Placement Vol. (yd³):** 220

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** MRWR

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 5.5

**Load Number:** 4

**Air Content (%) (C-231):** 5.7      **Air WR:** 4.9

**Mixer Number:** 190

**Air Temp (°F):** 84

**Ticket Number:** 3932477

**Conc. Temp (°F) (C-1064):** 82

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-11A		4.00	12.57	8/17/2009	Lab	7	4	54.0	4300
984-11B		4.00	12.57	9/7/2009	Lab	28	4	61.8	4920
984-11C		4.00	12.57	9/7/2009	Lab	28	4	66.6	5300
984-11D				Hold	Lab				

#### Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks: \*NEWMAN CONCRETE

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**
**General Contractor:**
**Concrete Supplier:** DRAGON PRODUCTS

**PLACEMENT INFORMATION**
**Date Cast:** 8/10/2009      **Time Cast:**      **Date Received:** 8/11/2009

**Placement Location:** FOOTING: LINE D, LINE 7 TO CORNER

**Placement Method:** CONVEYOR\*

**Placement Vol. (yd<sup>3</sup>):** 220

**Cylinders Made By:** VLT

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

**INITIAL CURING CONDITIONS**
**Temperatures**
**Minimum (°F)**      **Maximum (°F)**
**DELIVERY INFORMATION**
**Admixtures:** MRWR

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

**Load Number:** 7

**Air Content (%) (C-231):**      **Air WR:** 4.5

**Mixer Number:** 185

**Air Temp (°F):** 84

**Ticket Number:** 3932480

**Conc. Temp (°F) (C-1064):** 82

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-12A		4.00	12.57	8/17/2009	Lab	7	4	58.2	4630
984-12B		4.00	12.57	9/7/2009	Lab	28	4	69.0	5490
984-12C		4.00	12.57	9/7/2009	Lab	28	4	72.0	5730
984-12D				Hold	Lab				

**Fracture Types**


Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks: \*NEWMAN CONCRETE



**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 8/10/2009      **Time Cast:** 1:12      **Date Received:** 8/11/2009

**Placement Location:** FOOTING: LINE D, LINE 7 TO CORNER

**Placement Method:** CONVEYOR\*

**Placement Vol. (yd<sup>3</sup>):** 220

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** MRWR

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 4 3/4

**Load Number:** 11

**Air Content (%) (C-231):**                      **Air WR:** 4.8

**Mixer Number:** 185

**Air Temp (°F):** 83

**Ticket Number:** 3932485

**Conc. Temp (°F) (C-1064):** 82

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-13A		4.00	12.57	8/17/2009	Lab	7	4	53.6	4270
984-13B		4.00	12.57	9/7/2009	Lab	28	4	68.2	5430
984-13C		4.00	12.57	9/7/2009	Lab	28	4	66.8	5320
984-13D				Hold	Lab				

#### Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks: \*NEWMAN CONCRETE

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**
**General Contractor:**
**Concrete Supplier:** DRAGON PRODUCTS

PLACEMENT INFORMATION
**Date Cast:** 8/10/2009      **Time Cast:** 2:15      **Date Received:** 8/11/2009

**Placement Location:** FOOTING: LINE D, LINE 7 TO CORNER

**Placement Method:** CONVEYOR\*

**Placement Vol. (yd³):** 220

**Cylinders Made By:** VLT

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

INITIAL CURING CONDITIONS

## Temperatures

**Minimum (°F)**      **Maximum (°F)**
DELIVERY INFORMATION
**Admixtures:** MRWR

TEST RESULTS
**Slump (in) (C-143):**      **Slump WR:** 5 1/4

**Load Number:** 17

**Air Content (%) (C-231):**      **Air WR:** 5.3

**Mixer Number:** 177

**Air Temp (°F):** 79

**Ticket Number:** 3932491

**Conc. Temp (°F) (C-1064):** 82

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-14A		4.00	12.57	8/17/2009	Lab	7	4	49.2	3920
984-14B		4.00	12.57	9/7/2009	Lab	28	4	64.5	5130
984-14C		4.00	12.57	9/7/2009	Lab	28	4	58.4	4650
984-14D				Hold	Lab				

Fracture Types


Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks: \*NEWMAN CONCRETE

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

**PLACEMENT INFORMATION**

**Date Cast:** 8/10/2009      **Time Cast:** 3:35      **Date Received:** 8/11/2009

**Placement Location:** FOOTING: LINE D, LINE 7 TO CORNER

**Placement Method:** CONVEYOR\*

**Placement Vol. (yd³):** 220

**Cylinders Made By:** VLT

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

**INITIAL CURING CONDITIONS**

**Temperatures**

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

**DELIVERY INFORMATION**

**Admixtures:** MRWR

**TEST RESULTS**

**Slump (in) (C-143):**                      **Slump WR:** 6

**Load Number:** 22

**Air Content (%) (C-231):**                      **Air WR:** 5.2

**Mixer Number:** 176

**Air Temp (°F):** 79

**Ticket Number:** 3932498

**Conc. Temp (°F) (C-1064):** 81

**Cubic Yards:** 10

**Design (psi):** 4000

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)
984-15A		4.00	12.57	8/17/2009	Lab	7	4	52.0	4140
984-15B		4.00	12.57	9/7/2009	Lab	28	4	57.6	4580
984-15C		4.00	12.57	9/7/2009	Lab	28	4	63.0	5010
984-15D				Hold	Lab				

**Fracture Types**



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks: \*NEWMAN CONCRETE

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**
**General Contractor:**
**Concrete Supplier:** DRAGON PRODUCTS

**PLACEMENT INFORMATION**
**Date Cast:** 8/11/2009      **Time Cast:** 11:45      **Date Received:** 8/12/2009

**Placement Location:** WALL LINE D, 10 TO 7

**Placement Method:** CONVEYOR\*

**Placement Vol. (yd³):** 50

**Cylinders Made By:** VLT

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

**INITIAL CURING CONDITIONS**
**Temperatures**
**Minimum (°F)**      **Maximum (°F)**
**DELIVERY INFORMATION**
**Admixtures:** MRWR

**TEST RESULTS**

<b>Slump (in) (C-143):</b>	<b>Slump WR:</b> 5	<b>Load Number:</b> 2
<b>Air Content (%) (C-231):</b>	<b>Air WR:</b> 6.4	<b>Mixer Number:</b> 192
<b>Air Temp (°F):</b> 75		<b>Ticket Number:</b> 3932511
<b>Conc. Temp (°F) (C-1064):</b> 80		<b>Cubic Yards:</b> 10
		<b>Design (psi):</b> 4000

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)
984-16A		4.00	12.57	8/18/2009	Lab	7	4	46.2	3680
984-16B		4.00	12.57	9/8/2009	Lab	28	4	68.6	5460
984-16C		4.00	12.57	9/8/2009	Lab	28	4	68.8	5480
984-16D				Hold	Lab				

**Fracture Types**


Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks: \* NEWMAN CONCRETE

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 8/13/2009      **Time Cast:** 11:15      **Date Received:** 8/14/2009

**Placement Location:** FOOTING LINE 1, D TO C.3

**Placement Method:** CONVEYOR\*

**Placement Vol. (yd<sup>3</sup>):** 75

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** MRWR

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 5 1/4

**Load Number:** 3

**Air Content (%) (C-231):**                      **Air WR:** 6.8

**Mixer Number:** 177

**Air Temp (°F):** 74

**Ticket Number:** 3932542

**Conc. Temp (°F) (C-1064):** 79

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-17A		4.00	12.57	8/20/2009	Lab	7	4	54.4	4330
984-17B		4.00	12.57	9/10/2009	Lab	28	4	65.6	5220
984-17C		4.00	12.57	9/10/2009	Lab	28	4	68.6	5460
984-17D				Hold	Lab				

#### Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks: \* NEWMAN CONCRETE

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 8/13/2009      **Time Cast:** 12:00      **Date Received:** 8/14/2009

**Placement Location:** FOOTING LINE 1, D TO C.3

**Placement Method:** CONVEYOR\*

**Placement Vol. (yd<sup>3</sup>):** 75

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

**Temperatures**

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

### DELIVERY INFORMATION

**Admixtures:** MRWR

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 4 3/4

**Load Number:** 6

**Air Content (%) (C-231):**                      **Air WR:** 5.3

**Mixer Number:** 185

**Air Temp (°F):** 73

**Ticket Number:** 3932547

**Conc. Temp (°F) (C-1064):** 78

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-18A		4.00	12.57	8/20/2009	Lab	7	4	58.2	4630
984-18B		4.00	12.57	9/10/2009	Lab	28	4	69.8	5560
984-18C		4.00	12.57	9/10/2009	Lab	28	4	68.8	5480
984-18D				Hold	Lab				

Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks: \* NEWMAN CONCRETE

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

**PLACEMENT INFORMATION**

**Date Cast:** 8/17/2009      **Time Cast:** 10:50      **Date Received:** 8/18/2009

**Placement Location:** LINE D, 5.5 TO 7 INCLUDING ELEVATOR PIT WALL

**Placement Method:** CONVEYOR

**Placement Vol. (yd<sup>3</sup>):** 80

**Cylinders Made By:** VLT

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

**INITIAL CURING CONDITIONS**

**Temperatures**

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

**DELIVERY INFORMATION**

**Admixtures:** MRWR

**TEST RESULTS**

**Slump (in) (C-143):**                      **Slump WR:** 5 1/4

**Load Number:** 2

**Air Content (%) (C-231):**                      **Air WR:** 5.8

**Mixer Number:** 192

**Air Temp (°F):** 86

**Ticket Number:** 3932575

**Conc. Temp (°F) (C-1064):** 83

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-19A		4.00	12.57	8/24/2009	Lab	7	4	55.2	4390
984-19B		4.00	12.57	9/14/2009	Lab	28	4	71.2	5670
984-19C		4.00	12.57	9/14/2009	Lab	28	4	67.6	5380
984-19D				Hold	Lab				

**Fracture Types**



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks:

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 8/17/2009      **Time Cast:** 12:30      **Date Received:** 8/18/2009

**Placement Location:** LINE D, 5.5 TO 7

**Placement Method:** CONVEYOR

**Placement Vol. (yd<sup>3</sup>):** 80

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

**Temperatures**

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

### DELIVERY INFORMATION

**Admixtures:** MRWR

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 5.5

**Load Number:** 7

**Air Content (%) (C-231):**                      **Air WR:** 6.1

**Mixer Number:** 186

**Air Temp (°F):** 86

**Ticket Number:** 3932580

**Conc. Temp (°F) (C-1064):** 84

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area (in) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-20A		4.00	12.57	8/24/2009	Lab	7	4	53.8	4280
984-20B		4.00	12.57	9/14/2009	Lab	28	4	67.8	5400
984-20C		4.00	12.57	9/14/2009	Lab	28	4	66.8	5320
984-20D				Hold	Lab				

Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks:



**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 8/20/2009      **Time Cast:** 9:05

**Date Received:** 8/24/2009

**Placement Location:** WALL: LINE D, 8 TO 1.5

**Placement Method:** PUMP\*

**Placement Vol. (yd³):** 130

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** MRWR - GLENIUM  
 POZZOLITH 100XR -  
 RETARDER

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 6 1/4

**Load Number:** 3

**Air Content (%) (C-231):**                      **Air WR:** 7.5

**Mixer Number:** 176

**Air Temp (°F):** 66

**Ticket Number:** 3932618

**Conc. Temp (°F) (C-1064):** 78

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-21A		4.00	12.57	8/27/2009	Lab	7	4	59.0	4700
984-21B		4.00	12.57	9/17/2009	Lab	28	4	66.8	5320
984-21C		4.00	12.57	9/17/2009	Lab	28	4	63.4	5050
984-21D				Hold	Lab				

#### Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks: \* NORTHEAST CONCRETE

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 8/20/2009      **Time Cast:** 9:28

**Date Received:** 8/24/2009

**Placement Location:** WALL: LINE D, 8 TO 1.5

**Placement Method:** PUMP\*

**Placement Vol. (yd<sup>3</sup>):** 130

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** MRWR - GLENIUM  
 POZZOLITH 100XR -  
 RETARDER

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 4 1/2

**Load Number:** 6

**Air Content (%) (C-231):**                      **Air WR:** 5.3

**Mixer Number:** 180

**Air Temp (°F):** 73

**Ticket Number:** 3932623

**Conc. Temp (°F) (C-1064):** 79

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-22A		4.00	12.57	8/27/2009	Lab	7	4	63.0	5010
984-22B		4.00	12.57	9/17/2009	Lab	28	4	80.6	6410
984-22C		4.00	12.57	9/17/2009	Lab	28	4	82.2	6540
984-22D				Hold	Lab				

#### Fracture Types



1  
Cone



2  
Cone and Split



3  
Cone and Shear



4  
Shear



5  
Columnar

Remarks: \* NORTHEAST CONCRETE

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 8/20/2009      **Time Cast:** 11:10      **Date Received:** 8/24/2009

**Placement Location:** WALL: LINE D, 8 TO 1.5

**Placement Method:** PUMP\*

**Placement Vol. (yd<sup>3</sup>):** 130

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** MRWR - GLENIUM  
 POZZOLITH 100XR -  
 RETARDER

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 5 3/4

**Load Number:** 12

**Air Content (%) (C-231):**                      **Air WR:** 4.8

**Mixer Number:** 189

**Air Temp (°F):** 76

**Ticket Number:** 3932629

**Conc. Temp (°F) (C-1064):** 81

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-23A		4.00	12.57	8/24/2009	Lab	4	4	45.0	3580
984-23B		4.00	12.57	8/27/2009	Lab	7	4	61.0	4860
984-23C		4.00	12.57	8/27/2009	Lab	7	4	58.0	4620
984-23D		4.00	12.57	9/17/2009	Lab	28	4	76.4	6080
984-23E		4.00	12.57	9/17/2009	Lab	28	4	67.8	5400
984-23F				Hold	Lab				

#### Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks: \* NORTHEAST CONCRETE

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 8/21/2009      **Time Cast:** 11:05      **Date Received:** 8/24/2009

**Placement Location:** FOOTING: LINE A, 1 TO 6

**Placement Method:** CONVEYOR

**Placement Vol. (yd<sup>3</sup>):** 80

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

**Temperatures**

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

### DELIVERY INFORMATION

**Admixtures:** MRWR - GLENIUM

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 5.5  
**Air Content (%) (C-231):**                      **Air WR:** 6.0  
**Air Temp (°F):** 75  
**Conc. Temp (°F) (C-1064):** 82

**Load Number:** 3  
**Mixer Number:** 192  
**Ticket Number:** 3932642  
**Cubic Yards:** 10  
**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-24A		4.00	12.57	8/28/2009	Lab	7	4	50.8	4040
984-24B		4.00	12.57	9/18/2009	Lab	28	4	64.4	5130
984-24C		4.00	12.57	9/18/2009	Lab	28	4	64.0	5090
984-24D				Hold	Lab				

Fracture Types



1  
Cone



2  
Cone and Split



3  
Cone and Shear



4  
Shear



5  
Columnar

Remarks:

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

**PLACEMENT INFORMATION**

**Date Cast:** 8/21/2009      **Time Cast:** 11:46      **Date Received:** 8/24/2009

**Placement Location:** FOOTING: LINE A, 1 TO 6

**Placement Method:** CONVEYOR

**Placement Vol. (yd³):** 80

**Cylinders Made By:** VLT

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

**INITIAL CURING CONDITIONS**

**Temperatures**

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

**DELIVERY INFORMATION**

**Admixtures:** MRWR - GLENIUM

**TEST RESULTS**

**Slump (in) (C-143):**                      **Slump WR:** 4  
**Air Content (%) (C-231):**                      **Air WR:** 4.5  
**Air Temp (°F):** 75  
**Conc. Temp (°F) (C-1064):** 82

**Load Number:** 6  
**Mixer Number:** 182  
**Ticket Number:** 3932645  
**Cubic Yards:** 10  
**Design (psi):** 4000

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)
984-25A		4.00	12.57	8/28/2009	Lab	7	4	56.9	4530
984-25B		4.00	12.57	9/18/2009	Lab	28	4	60.4	4810
984-25C		4.00	12.57	9/18/2009	Lab	28	4	67.6	5380
984-25D				Hold	Lab				

Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks:

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 8/24/2009      **Time Cast:** 2:45

**Date Received:**

**Placement Location:** WALL : LINE A, 13 TO 9

**Placement Method:** CONREYOR

**Placement Vol. (yd<sup>3</sup>):** 65

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** MRWR

### TEST RESULTS

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

**Load Number:** 3

**Air Content (%) (C-231):**                      **Air WR:** 4.5

**Mixer Number:** 185

**Air Temp (°F):** 78

**Ticket Number:** 3932661

**Conc. Temp (°F) (C-1064):** 84

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-26A		4.00	12.57	8/27/2009	Lab	3	4	44.0	3500
984-26B		4.00	12.57	8/31/2009	Lab	7	4	50.2	4000
984-26C		4.00	12.57	9/21/2009	Lab	28	4	71.4	5680
984-26D		4.00	12.57	9/21/2009	Lab	28	4	76.0	6050

#### Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks:

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**
**General Contractor:**
**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 8/24/2009      **Time Cast:** 3:28

**Date Received:**
**Placement Location:** WALL : LINE A, 13 TO 9

**Placement Method:** CONREYOR

**Placement Vol. (yd<sup>3</sup>):** 65

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** MRWR

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 5

**Load Number:** 5

**Air Content (%) (C-231):**                      **Air WR:** 5.1

**Mixer Number:** 186

**Air Temp (°F):** 76

**Ticket Number:** 3932664

**Conc. Temp (°F) (C-1064):** 80

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-27A		4.00	12.57	8/27/2009	Lab	3	4	43.0	3420
984-27B		4.00	12.57	8/31/2009	Lab	7	4	51.8	4120
984-27C		4.00	12.57	9/21/2009	Lab	28	4	73.8	5870
984-27D		4.00	12.57	9/21/2009	Lab	28	4	74.2	5910

#### Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks:

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**
**General Contractor:**
**Concrete Supplier:** DRAGON PRODUCTS

**PLACEMENT INFORMATION**
**Date Cast:** 8/27/2009      **Time Cast:** 11:08      **Date Received:** 8/31/2009

**Placement Location:** FOOTING: LINE 1, A TO C.3+/-

**Placement Method:** CONVEYOR\*

**Placement Vol. (yd<sup>3</sup>):** 50

**Cylinders Made By:** VLT

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

**INITIAL CURING CONDITIONS**
**Temperatures**
**Minimum (°F)**      **Maximum (°F)**
**DELIVERY INFORMATION**
**Admixtures:** MRWR- GLENIUM

**TEST RESULTS**
**Slump (in) (C-143):**      **Slump WR:** 5.5

**Load Number:** 2

**Air Content (%) (C-231):**      **Air WR:** 5.6

**Mixer Number:** 189

**Air Temp (°F):** 72

**Ticket Number:** 3932698

**Conc. Temp (°F) (C-1064):** 76

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-28A		4.00	12.57	9/3/2009	Lab	7	4	47.4	3770
984-28B		4.00	12.57	9/24/2009	Lab	28	4	79.8	6350
984-28C		4.00	12.57	9/24/2009	Lab	28	4	75.0	5970
984-28D				Hold	Lab				

**Fracture Types**


Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks: \*NEWMAN CONCRETE



## Report of Concrete Compressive Strength

ASTM C-31 &amp; C-39

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**
**General Contractor:**
**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

<b>Date Cast:</b> 9/3/2009	<b>Time Cast:</b> 1:45	<b>Date Received:</b> 9/4/2009
<b>Placement Location:</b> WALLS: LINE 13, D TO C.3 LINE D, 13 TO 12		
<b>Placement Method:</b> PUMP	<b>Placement Vol. (yd<sup>3</sup>):</b> 40	
<b>Cylinders Made By:</b> VLT	<b>Aggregate Size (in):</b> 3/4	

### INITIAL CURING CONDITIONS

#### Temperatures

<b>Minimum (°F)</b>	<b>Maximum (°F)</b>
---------------------	---------------------

### TEST RESULTS

<b>Slump (in) (C-143):</b>	<b>Slump WR:</b> 6 1/4
<b>Air Content (%) (C-231):</b>	<b>Air WR:</b> 5.2
<b>Air Temp (°F):</b> 76	
<b>Conc. Temp (°F) (C-1064):</b> 79	

### DELIVERY INFORMATION

<b>Admixtures:</b>	HRWR - GLENIUM - HIGH RANGE POZZOLITH 100XR - RETAINER
<b>Load Number:</b>	3
<b>Mixer Number:</b>	171
<b>Ticket Number:</b>	3932811
<b>Cubic Yards:</b>	10
<b>Design (psi):</b>	4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-29A		4.00	12.57	9/7/2009	Lab	4	4	56.8	4520
984-29B		4.00	12.57	9/10/2009	Lab	7	4	64.8	5160
984-29C		4.00	12.57	10/1/2009	Lab	28	4	87.0	6920
984-29D		4.00	12.57	10/1/2009	Lab	28	4	87.0	6920
984-29E				Hold	Lab				

#### Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks:

## Report of Concrete Compressive Strength

ASTM C-31 &amp; C-39

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**
**General Contractor:**
**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

<b>Date Cast:</b> 9/3/2009	<b>Time Cast:</b> 4:25	<b>Date Received:</b> 9/4/2009
<b>Placement Location:</b> WALLS: LINE 13, D TO C.3 LINE D, 13 TO 12		
<b>Placement Method:</b> PUMP		<b>Placement Vol. (yd<sup>3</sup>):</b> 40
<b>Cylinders Made By:</b> VLT		<b>Aggregate Size (in):</b> 3/4

### INITIAL CURING CONDITIONS

#### Temperatures

<b>Minimum (°F)</b>	<b>Maximum (°F)</b>
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### TEST RESULTS

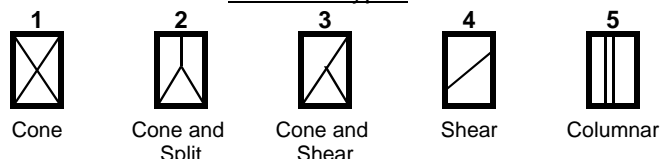
<b>Slump (in) (C-143):</b>	<b>Slump WR:</b> 5
<b>Air Content (%) (C-231):</b>	<b>Air WR:</b> 5.3
<b>Air Temp (°F):</b> 76	
<b>Conc. Temp (°F) (C-1064):</b> 80	

### DELIVERY INFORMATION

<b>Admixtures:</b>	HRWR - GLENIUM - HIGH RANGE POZZOLITH 100XR - RETAINER
<b>Load Number:</b>	6
<b>Mixer Number:</b>	192
<b>Ticket Number:</b>	3932817
<b>Cubic Yards:</b>	10
<b>Design (psi):</b>	4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area (In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-30A		4.00	12.57	9/10/2009	Lab	7	4	70.4	5600
984-30B		4.00	12.57	10/1/2009	Lab	28	4	86.0	6840
984-30C		4.00	12.57	10/1/2009	Lab	28	4	89.0	7080
984-30D				Hold	Lab				

#### Fracture Types



Remarks:

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 9/4/2009      **Time Cast:** 9:00      **Date Received:** 9/5/2009

**Placement Location:** WALLS: LINE 1, A TO C.3    LINE A, 1 TO 6+/-

**Placement Method:** PUMP\*

**Placement Vol. (yd<sup>3</sup>):** 71.5

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** MRWR - GLENIUM

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 6 1/4

**Load Number:** 3

**Air Content (%) (C-231):**                      **Air WR:** 6.4

**Mixer Number:** 177

**Air Temp (°F):** 65

**Ticket Number:** 3932826

**Conc. Temp (°F) (C-1064):** 74

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-31A		4.00	12.57	9/8/2009	Lab	4	4	36.8	2930
984-31B		4.00	12.57	9/11/2009	Lab	7	4	49.4	3930
984-31C		4.00	12.57	10/2/2009	Lab	28	4	70.0	5570
984-31D		4.00	12.57	10/2/2009	Lab	28	4	65.0	5170
984-31E				Hold	Lab				

#### Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks: 3 DAY MOVED TO 4 DAY BECAUSE OF HOLIDAY  
 \*NORTHEAST CONCRETE PUMPING

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 9/4/2009      **Time Cast:** 9:40      **Date Received:** 9/5/2009

**Placement Location:** WALLS: LINE 1, A TO C.3    LINE A, 1 TO 6+/-

**Placement Method:** PUMP\*

**Placement Vol. (yd³):** 71.5

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

**Temperatures**

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

### DELIVERY INFORMATION

**Admixtures:** MRWR - GLENIUM

### TEST RESULTS

<b>Slump (in) (C-143):</b>	<b>Slump WR:</b> 5	<b>Load Number:</b> 6
<b>Air Content (%) (C-231):</b>	<b>Air WR:</b> 5.4	<b>Mixer Number:</b> 195
<b>Air Temp (°F):</b> 65		<b>Ticket Number:</b> 3932829
<b>Conc. Temp (°F) (C-1064):</b> 75		<b>Cubic Yards:</b> 10
		<b>Design (psi):</b> 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-32A		4.00	12.57	9/11/2009	Lab	7	4	59.0	4700
984-32B		4.00	12.57	10/2/2009	Lab	28	4	79.6	6340
984-32C		4.00	12.57	10/2/2009	Lab	28	4	72.0	5730
984-32D				Hold	Lab				

Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks: 3 DAY MOVED TO 4 DAY BECAUSE OF HOLIDAY  
 \*NORTHEAS

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**
**General Contractor:**
**Concrete Supplier:** DRAGON PRODUCTS

**PLACEMENT INFORMATION**
**Date Cast:** 9/9/2009      **Time Cast:** 12:30      **Date Received:** 9/10/2009

**Placement Location:** ELEVATOR PIT BASE SLAB STAIR TOWER - "A"FOOTING

**Placement Method:** CONVEYOR\*

**Placement Vol. (yd<sup>3</sup>):** 50

**Cylinders Made By:** VLT

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

**INITIAL CURING CONDITIONS**
**Temperatures**
**Minimum (°F)**      **Maximum (°F)**
**DELIVERY INFORMATION**
**Admixtures:** MRWR - GLENIUM

**TEST RESULTS**

<b>Slump (in) (C-143):</b>	<b>Slump WR:</b> 5	<b>Load Number:</b> 3
<b>Air Content (%) (C-231):</b>	<b>Air WR:</b> 6.9	<b>Mixer Number:</b> 177
<b>Air Temp (°F):</b> 70		<b>Ticket Number:</b> 3932860
<b>Conc. Temp (°F) (C-1064):</b> 79		<b>Cubic Yards:</b> 3
		<b>Design (psi):</b> 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-33A		4.00	12.57	9/16/2009	Lab	7	4	56.0	4460
984-33B		4.00	12.57	10/7/2009	Lab	28	4	75.0	5970
984-33C		4.00	12.57	10/7/2009	Lab	28	4	75.4	6000
984-33D				Hold	Lab				

**Fracture Types**


Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks: \* NEWMAN CONCRETE

## Report of Concrete Compressive Strength

ASTM C-31 & C-39

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 9/11/2009      **Time Cast:**      **Date Received:** 9/12/2009

**Placement Location:** WALL LINE D, 11 TO 7

**Placement Method:** CONVEYOR\*

**Placement Vol. (yd<sup>3</sup>):** 61

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

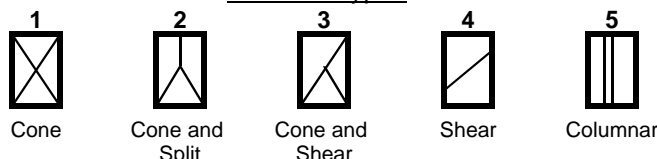
**Admixtures:** MRWR - GLENIUM 7500

### TEST RESULTS

<b>Slump (in) (C-143):</b>	<b>Slump WR:</b> 6	<b>Load Number:</b> 2
<b>Air Content (%) (C-231):</b>	<b>Air WR:</b> 5.4	<b>Mixer Number:</b> 177
<b>Air Temp (°F):</b> 63		<b>Ticket Number:</b> 3932902
<b>Conc. Temp (°F) (C-1064):</b> 75		<b>Cubic Yards:</b> 10.5
		<b>Design (psi):</b> 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-34A		4.00	12.57	9/18/2009	Lab	7	4	52.6	4190
984-34B		4.00	12.57	10/9/2009	Lab	28	4	73.0	5810
984-34C		4.00	12.57	10/9/2009	Lab	28	4	78.4	6240
984-34D				Hold	Lab				

#### Fracture Types



Remarks: \* NEWMAN CONCRETE

## Report of Concrete Compressive Strength

ASTM C-31 &amp; C-39

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**
**General Contractor:**
**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 9/11/2009      **Time Cast:**      **Date Received:** 9/12/2009

**Placement Location:** WALL LINE D, 11 TO 7

**Placement Method:** CONVEYOR\*

**Placement Vol. (yd<sup>3</sup>):** 61

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** MRWR - GLENIUM 7500

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 5 3/4

**Load Number:** 5

**Air Content (%) (C-231):**                      **Air WR:** 5.6

**Mixer Number:** 190

**Air Temp (°F):** 69

**Ticket Number:** 3932906

**Conc. Temp (°F) (C-1064):** 75

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area (In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-35A		4.00	12.57	9/18/2009	Lab	7	4	57.6	4580
984-35B		4.00	12.57	10/9/2009	Lab	28	4	75.6	6020
984-35C		4.00	12.57	10/9/2009	Lab	28	4	76.4	6080
984-35D				Hold	Lab				

#### Fracture Types


 1  
Cone

 2  
Cone and Split

 3  
Cone and Shear

 4  
Shear

 5  
Columnar

Remarks: \* NEWMAN CONCRETE

## Report of Concrete Compressive Strength

ASTM C-31 &amp; C-39

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**
**General Contractor:**
**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 9/15/2009      **Time Cast:** 10:05      **Date Received:** 9/16/2009  
**Placement Location:** STAIR TOWER "B" - FOOTING ELEVATOR PIT WALL INTERIOR SPREAD FOOTINGS  
 LINE B + C, 2 + 3  
**Placement Method:** CONVEYOR\*      **Placement Vol. (yd<sup>3</sup>):** 120  
**Cylinders Made By:** VLT      **Aggregate Size (in):** 3/4

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** MRWR

### TEST RESULTS

**Slump (in) (C-143):**      **Slump WR:** 4 3/4      **Load Number:** 2  
**Air Content (%) (C-231):**      **Air WR:** 4.5      **Mixer Number:** 195  
**Air Temp (°F):** 70      **Ticket Number:** 3932936  
**Conc. Temp (°F) (C-1064):** 72      **Cubic Yards:** 10  
**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area (In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-36A		4.00	12.57	9/22/2009	Lab	7	4	59.0	4700
984-36B		4.00	12.57	10/13/2009	Lab	28	4	85.0	6770
984-36C		4.00	12.57	10/13/2009	Lab	28	4	87.6	6970
984-36D				Hold	Lab				

#### Fracture Types


 1  
Cone

 2  
Cone and Split

 3  
Cone and Shear

 4  
Shear

 5  
Columnar

Remarks: \* NEWMAN CONCRETE



## Report of Concrete Compressive Strength

ASTM C-31 &amp; C-39

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**
**General Contractor:**
**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

<b>Date Cast:</b>	9/15/2009	<b>Time Cast:</b>	<b>Date Received:</b>	9/16/2009
<b>Placement Location:</b>	STAIR TOWER "B" - FOOTING ELEVATOR PIT WALL INTERIOR SPREAD FOOTINGS LINE B + C, 2 + 3			
<b>Placement Method:</b>	CONVEYOR*		<b>Placement Vol. (yd<sup>3</sup>):</b>	120
<b>Cylinders Made By:</b>	VLT	<b>Aggregate Size (in):</b>	3/4	

### INITIAL CURING CONDITIONS

#### Temperatures

<b>Minimum (°F)</b>	<b>Maximum (°F)</b>
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### DELIVERY INFORMATION

**Admixtures:** MRWR

### TEST RESULTS

<b>Slump (in) (C-143):</b>	<b>Slump WR:</b>	4.5	<b>Load Number:</b>	8
<b>Air Content (%) (C-231):</b>	<b>Air WR:</b>	4.5	<b>Mixer Number:</b>	186
<b>Air Temp (°F):</b>	80		<b>Ticket Number:</b>	3932945
<b>Conc. Temp (°F) (C-1064):</b>	76		<b>Cubic Yards:</b>	10
			<b>Design (psi):</b>	4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area (In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-37A		4.00	12.57	9/22/2009	Lab	7	4	56.8	4520
984-37B		4.00	12.57	10/13/2009	Lab	28	4	81.6	6490
984-37C		4.00	12.57	10/13/2009	Lab	28	4	82.8	6590
984-37D				Hold	Lab				

#### Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks: \* NEWMAN CONCRETE

## Report of Concrete Compressive Strength

ASTM C-31 &amp; C-39

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**
**General Contractor:**
**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 9/15/2009      **Time Cast:** 1:30      **Date Received:** 9/16/2009  
**Placement Location:** STAIR TOWER "B" - FOOTING ELEVATOR PIT WALL INTERIOR SPREAD FOOTINGS  
 LINE B + C, 2 + 3  
**Placement Method:** CONVEYOR\*      **Placement Vol. (yd<sup>3</sup>):** 120  
**Cylinders Made By:** VLT      **Aggregate Size (in):** 3/4

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** MRWR

### TEST RESULTS

**Slump (in) (C-143):**      **Slump WR:** 5 3/4      **Load Number:** 11  
**Air Content (%) (C-231):**      **Air WR:** 5.5      **Mixer Number:** 186  
**Air Temp (°F):** 79      **Ticket Number:** 3932951  
**Conc. Temp (°F) (C-1064):** 78      **Cubic Yards:** 10  
**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area (In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-38A		4.00	12.57	9/22/2009	Lab	7	4	49.6	3950
984-38B		4.00	12.57	10/13/2009	Lab	28	4	73.8	5870
984-38C		4.00	12.57	10/13/2009	Lab	28	4	78.2	6220
984-38D				Hold	Lab				

#### Fracture Types


 1  
Cone

 2  
Cone and Split

 3  
Cone and Shear

 4  
Shear

 5  
Columnar

Remarks: \* NEWMAN CONCRETE



# Report of Concrete Compressive Strength

ASTM C-31 & C-39

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

## PLACEMENT INFORMATION

**Date Cast:** 9/16/2009      **Time Cast:** 8:30      **Date Received:** 9/17/2009

**Placement Location:** WALL: LINE 1, D-C.3      PIERS: C2 & B2

**Placement Method:** CONVEYOR

**Placement Vol. (yd<sup>3</sup>):** 50

**Cylinders Made By:** PJO

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

## INITIAL CURING CONDITIONS

### Temperatures

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

## DELIVERY INFORMATION

**Admixtures:** GLENIUM - MID RANGE

## TEST RESULTS

**Slump (in) (C-143):**      **Slump WR:** 6  
**Air Content (%) (C-231):**      **Air WR:** 5.1  
**Air Temp (°F):** 58  
**Conc. Temp (°F) (C-1064):** 61

**Load Number:** 3  
**Mixer Number:** 159  
**Ticket Number:** 3932979  
**Cubic Yards:** 10  
**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-39A		4.00	12.57	9/23/2009	Lab	7	4	44.0	3500
984-39B		4.00	12.57	10/14/2009	Lab	28	4	65.4	5210
984-39C		4.00	12.57	10/14/2009	Lab	28	4	64.6	5140
984-39D				Hold	Lab				

### Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks:

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 9/17/2009      **Time Cast:** 1:15      **Date Received:** 9/18/2009

**Placement Location:** WALL LINE D, 6 TO 4 2ND ELAVATOR      FOOTINGS: LINE 4, B + C

**Placement Method:** PUMP\*

**Placement Vol. (yd<sup>3</sup>):** 97

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** MRWR

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 5 3/4

**Load Number:** 3

**Air Content (%) (C-231):**                      **Air WR:** 5.1

**Mixer Number:** 191

**Air Temp (°F):** 74

**Ticket Number:** 3933007

**Conc. Temp (°F) (C-1064):** 71

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-40A		4.00	12.57	9/24/2009	Lab	7	4	56.0	4460
984-40B		4.00	12.57	10/15/2009	Lab	28	4	63.6	5060
984-40C		4.00	12.57	10/15/2009	Lab	28	4	67.8	5400
984-40D				Hold	Lab				

#### Fracture Types



1  
Cone



2  
Cone and Split



3  
Cone and Shear



4  
Shear



5  
Columnar

Remarks: \*NORTHEAST CONCRETE

## Report of Concrete Compressive Strength

ASTM C-31 &amp; C-39

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**
**General Contractor:**
**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 9/17/2009      **Time Cast:** 3:00      **Date Received:** 9/18/2009

**Placement Location:** WALL LINE D, 6 TO 4 2ND ELAVATOR      FOOTINGS: LINE 4, B + C

**Placement Method:** PUMP\*

**Placement Vol. (yd³):** 97

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** MRWR

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 6 1/4

**Load Number:** 9

**Air Content (%) (C-231):**                      **Air WR:** 4.9

**Mixer Number:** 195

**Air Temp (°F):** 71

**Ticket Number:** 3933017

**Conc. Temp (°F) (C-1064):** 73

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-41A		4.00	12.57	9/24/2009	Lab	7	4	54.8	4360
984-41B		4.00	12.57	10/15/2009	Lab	28	4	73.8	5870
984-41C		4.00	12.57	10/15/2009	Lab	28	4	68.2	5430
984-41D				Hold	Lab				

#### Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks: \*NORTHEAST CONCRETE

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**
**General Contractor:**
**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 9/18/2009      **Time Cast:** 1:25      **Date Received:** 9/19/2009

**Placement Location:** FOOTINGS : LINE B + C, 10, 11 + 12

**Placement Method:** PUMP\*

**Placement Vol. (yd<sup>3</sup>):** 70

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** MRWR

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 4 3/4

**Load Number:** 2

**Air Content (%) (C-231):**                      **Air WR:** 5.5

**Mixer Number:** 190

**Air Temp (°F):** 67

**Ticket Number:** 3933030

**Conc. Temp (°F) (C-1064):** 72

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-42A		4.00	12.57	9/25/2009	Lab	7	4	51.2	4080
984-42B		4.00	12.57	10/16/2009	Lab	28	4	66.4	5280
984-42C		4.00	12.57	10/16/2009	Lab	28	4	71.2	5670
984-42D				Hold	Lab				

#### Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks: \* NOTHEAST CONCRETE PUMPING

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 9/18/2009      **Time Cast:** 3:00      **Date Received:** 9/19/2009

**Placement Location:** FOOTINGS : LINE B + C, 10, 11 + 12

**Placement Method:** PUMP\*

**Placement Vol. (yd<sup>3</sup>):** 70

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** MRWR

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 5 3/4

**Load Number:** 6

**Air Content (%) (C-231):**                      **Air WR:** 5.9

**Mixer Number:** 177

**Air Temp (°F):** 69

**Ticket Number:** 3933035

**Conc. Temp (°F) (C-1064):** 74

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-43A		4.00	12.57	9/25/2009	Lab	7	4	51.4	4090
984-43B		4.00	12.57	10/16/2009	Lab	28	4	66.8	5320
984-43C		4.00	12.57	10/16/2009	Lab	28	4	64.2	5110
984-43D				Hold	Lab				

#### Fracture Types



1  
Cone



2  
Cone and Split



3  
Cone and Shear



4  
Shear



5  
Columnar

Remarks: \* NOTHEAST CONCRETE PUMPING

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

**PLACEMENT INFORMATION**

**Date Cast:** 9/21/2009      **Time Cast:** 3:45      **Date Received:** 9/23/2009

**Placement Location:** INTERIOR PIERS B/4, B/10, B/11 & B/12

**Placement Method:** TAILGATE

**Placement Vol. (yd<sup>3</sup>):** 4

**Cylinders Made By:** RED

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

**INITIAL CURING CONDITIONS**

**Temperatures**

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

**DELIVERY INFORMATION**

**Admixtures:** GLENIUM 7500

**TEST RESULTS**

**Slump (in) (C-143):**                      **Slump WR:** 5  
**Air Content (%) (C-231):**                      **Air WR:** 4.9  
**Air Temp (°F):** 77  
**Conc. Temp (°F) (C-1064):** 75

**Load Number:** 1  
**Mixer Number:** 182  
**Ticket Number:** 3933049  
**Cubic Yards:** 2.5  
**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-44A		4.00	12.57	9/28/2009	Lab	7	4	52.2	4150
984-44B		4.00	12.57	10/19/2009	Lab	28	4	66.4	5280
984-44C		4.00	12.57	10/19/2009	Lab	28	4	64.6	5140
984-44D				Hold	Lab				

**Fracture Types**



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks:



## Report of Concrete Compressive Strength

ASTM C-31 &amp; C-39

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**
**General Contractor:**
**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 9/24/2009      **Time Cast:** 1:45      **Date Received:** 9/25/2009

**Placement Location:** WALL: D/4 TO D/2

**Placement Method:** PUMP

**Placement Vol. (yd<sup>3</sup>):** 55

**Cylinders Made By:** RED

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

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

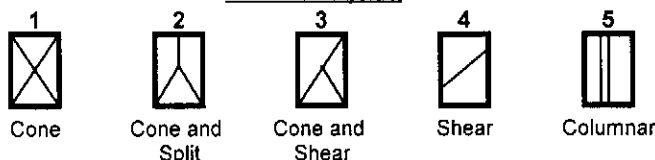
**Admixtures:** GLENIUM

### TEST RESULTS

<b>Slump (in) (C-143):</b>	<b>Slump WR:</b> 5.5	<b>Load Number:</b> 4
<b>Air Content (%) (C-231):</b>	<b>Air WR:</b> 4.6	<b>Mixer Number:</b> 176
<b>Air Temp (°F):</b> 75		<b>Ticket Number:</b> 3933090
<b>Conc. Temp (°F) (C-1064):</b> 74		<b>Cubic Yards:</b> 10
		<b>Design (psi):</b> 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area (In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-45A		4.00	12.57	10/1/2009	Lab	7	4	54.0	4300
984-45B		4.00	12.57	10/22/2009	Lab	28	4	66.6	5300
984-45C		4.00	12.57	10/22/2009	Lab	28	4	66.2	5270
984-45D				Hold	Lab				

#### Fracture Types



Remarks:

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**
**General Contractor:**
**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

<b>Date Cast:</b> 9/25/2009	<b>Time Cast:</b> 1:10	<b>Date Received:</b> 9/26/2009
<b>Placement Location:</b> INTERIOR FOOTING: LINE 5 TO 8, C TO B TO 8.4 +/-		STAIR TOWER "B" WALLS WALLS: LINE A, 7
<b>Placement Method:</b> PUMP*		<b>Placement Vol. (yd<sup>3</sup>):</b> 130
<b>Cylinders Made By:</b> VLT		<b>Aggregate Size (in):</b> 3/4

### INITIAL CURING CONDITIONS

#### Temperatures

<b>Minimum (°F)</b>	<b>Maximum (°F)</b>
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### DELIVERY INFORMATION

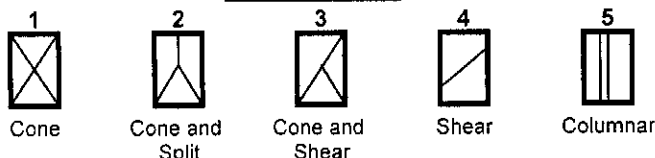
**Admixtures:** MRWR - GLENIUM

### TEST RESULTS

<b>Slump (in) (C-143):</b>	<b>Slump WR:</b> 5	<b>Load Number:</b> 3
<b>Air Content (%) (C-231):</b>	<b>Air WR:</b> 5.0	<b>Mixer Number:</b> 190
<b>Air Temp (°F):</b> 64		<b>Ticket Number:</b> 3933108
<b>Conc. Temp (°F) (C-1064):</b> 72		<b>Cubic Yards:</b> 10
		<b>Design (psi):</b> 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-46A		4.00	12.57	10/2/2009	Lab	7	4	57.4	4570
984-46B		4.00	12.57	10/23/2009	Lab	28	4	67.6	5380
984-46C		4.00	12.57	10/23/2009	Lab	28	4	65.0	5170
984-46D				Hold	Lab				

#### Fracture Types



Remarks: \* NORTHEAST CONCRETE PUMPING

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 9/25/2009      **Time Cast:** 2:45      **Date Received:** 9/26/2009  
**Placement Location:** INTERIOR FOOTING: LINE 5 TO 8, C TO B STAIR TOWER "B" WALLS    WALLS: LINE A, 7 TO 8.4 +/-  
**Placement Method:** PUMP\*      **Placement Vol. (yd<sup>3</sup>):** 130  
**Cylinders Made By:** VLT      **Aggregate Size (in):** 3/4

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** MRWR - GLENIUM

### TEST RESULTS

**Slump (in) (C-143):**      **Slump WR:** 6 1/4      **Load Number:** 9  
**Air Content (%) (C-231):**      **Air WR:** 5.8      **Mixer Number:** 193  
**Air Temp (°F):** 64      **Ticket Number:** 3933115  
**Conc. Temp (°F) (C-1064):** 70      **Cubic Yards:** 10  
**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area (in) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-47A		4.00	12.57	10/2/2009	Lab	7	4	47.4	3770
984-47B		4.00	12.57	10/23/2009	Lab	28	4	56.8	4520
984-47C		4.00	12.57	10/23/2009	Lab	28	4	65.4	5210
984-47D				Hold	Lab				

#### Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks: \* NORTHEAST CONCRETE PUMPING

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 9/28/2009      **Time Cast:** 1:50      **Date Received:** 9/29/2009

**Placement Location:** PIERS LINE B, 6 + 7

**Placement Method:** DIRECT DISCHARGE

**Placement Vol. (yd<sup>3</sup>):** 2

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

**Temperatures**

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

### DELIVERY INFORMATION

**Admixtures:** MRWR - GLENIUM 7500

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 4  
**Air Content (%) (C-231):**                      **Air WR:** 7.5  
**Air Temp (°F):** 72  
**Conc. Temp (°F) (C-1064):** 77

**Load Number:** 1  
**Mixer Number:** 190  
**Ticket Number:** 3933129  
**Cubic Yards:** 2  
**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-48A		4.00	12.57	10/5/2009	Lab	7	4	34.2	2720
984-48B		4.00	12.57	10/26/2009	Lab	28	4	59.2	4710
984-48C		4.00	12.57	10/26/2009	Lab	28	4	57.2	4550
984-48D				Hold	Lab				

Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks:

## Report of Concrete Compressive Strength

ASTM C-31 & C-39

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 9/29/2009      **Time Cast:** 1:40      **Date Received:** 9/30/2009

**Placement Location:** WALL: LINE D, 2 TO 1, WALL: LINE 1 D TO C.3  
 FOOTING: LINE 9, B + C

**Placement Method:** PUMP/CONVEYOR

**Placement Vol. (yd<sup>3</sup>):** 110

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** MRWR

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 4.5

**Load Number:** 3

**Air Content (%) (C-231):**                      **Air WR:** 5.2

**Mixer Number:** 191

**Air Temp (°F):** 65

**Ticket Number:** 3933142

**Conc. Temp (°F) (C-1064):** 75

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area (in) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-49A		4.00	12.57	10/6/2009	Lab	7	4	50.0	3980
984-49B		4.00	12.57	10/27/2009	Lab	28	4	70.4	5600
984-49C		4.00	12.57	10/27/2009	Lab	28	4	75.8	6030
984-49D				Hold	Lab				

#### Fracture Types



1  
Cone



2  
Cone and Split



3  
Cone and Shear



4  
Shear



5  
Columnar

Remarks:

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 9/29/2009      **Time Cast:** 2:35      **Date Received:** 9/30/2009

**Placement Location:** WALL: LINE D, 2 TO 1, WALL: LINE 1 D TO C.3  
 FOOTING: LINE 9, B + C

**Placement Method:** PUMP/CONVEYOR

**Placement Vol. (yd<sup>3</sup>):** 110

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** MRWR

### TEST RESULTS

**Slump (in) (C-143):**      **Slump WR:** 5 1/4

**Load Number:** 7

**Air Content (%) (C-231):**      **Air WR:** 5.1

**Mixer Number:** 190

**Air Temp (°F):** 66

**Ticket Number:** 3933146

**Conc. Temp (°F) (C-1064):** 73

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-50A		4.00	12.57	10/6/2009	Lab	7	4	56.0	4460
984-50B		4.00	12.57	10/27/2009	Lab	28	4	72.0	5730
984-50C		4.00	12.57	10/27/2009	Lab	28	4	73.2	5830
984-50D				Hold	Lab				

#### Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks:

## Report of Concrete Compressive Strength

ASTM C-31 &amp; C-39

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**
**General Contractor:**
**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 10/1/2009      **Time Cast:** 4:02

**Date Received:** 10/2/2009

**Placement Location:** WALL LINE 13, C.3 TO B +/-

**Placement Method:** DIRECT DISCHARGE

**Placement Vol. (yd<sup>3</sup>):** 10

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** MRWR

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 4 1/4  
**Air Content (%) (C-231):**                      **Air WR:** 4.8  
**Air Temp (°F):** 53  
**Conc. Temp (°F) (C-1064):** 67

**Load Number:** 1  
**Mixer Number:** 176  
**Ticket Number:** 3933173  
**Cubic Yards:** 10  
**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-51A		4.00	12.57	10/8/2009	Lab	7	4	55.4	4410
984-51B		4.00	12.57	10/29/2009	Lab	28	4	73.0	5810
984-51C		4.00	12.57	10/29/2009	Lab	28	4	75.8	6030
984-51D				Hold	Lab				

#### Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks:

## Report of Concrete Compressive Strength

ASTM C-31 &amp; C-39

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**
**General Contractor:**
**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

<b>Date Cast:</b>	10/12/2009	<b>Time Cast:</b>	10:08	<b>Date Received:</b>	10/13/2009
<b>Placement Location:</b>	ELEVATED FOOTING LINE 1, D TO C.3 FOOTING: LINE 13 BETWEEN B & A				
<b>Placement Method:</b>	PUMP*				
<b>Cylinders Made By:</b>	VLT	<b>Placement Vol. (yd<sup>3</sup>):</b>	28		
		<b>Aggregate Size (in):</b>	3/4		

### INITIAL CURING CONDITIONS

#### Temperatures

<b>Minimum (°F)</b>	<b>Maximum (°F)</b>
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### DELIVERY INFORMATION

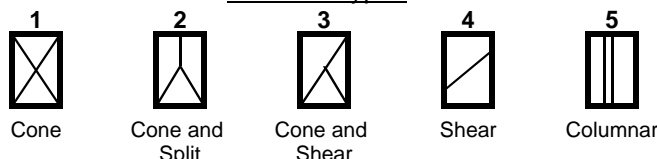
**Admixtures:** MRWR - GLENIUM

### TEST RESULTS

<b>Slump (in) (C-143):</b>	<b>Slump WR:</b>	5	<b>Load Number:</b>	2
<b>Air Content (%) (C-231):</b>	<b>Air WR:</b>	6.6	<b>Mixer Number:</b>	176
<b>Air Temp (°F):</b>	50		<b>Ticket Number:</b>	3933227
<b>Conc. Temp (°F) (C-1064):</b>	64		<b>Cubic Yards:</b>	10
			<b>Design (psi):</b>	4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area (In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-52A		4.00	12.57	10/19/2009	Lab	7	4	45.8	3650
984-52B		4.00	12.57	11/9/2009	Lab	28	4	65.0	5170
984-52C		4.00	12.57	11/9/2009	Lab	28	4	69.4	5520
984-52D				Hold	Lab				

#### Fracture Types



Remarks: \*NORTHEAST CONCRETE



**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**
**General Contractor:**
**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 10/19/2009      **Time Cast:** 2:15      **Date Received:** 10/20/2009

**Placement Location:** FOUNDATION WALL ALONG COLUMN LINE 1 LINES D & C

**Placement Method:** PUMP

**Placement Vol. (yd<sup>3</sup>):** 34.5

**Cylinders Made By:** TA

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

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** GLENIUM 7500, LIQUID AIR

### TEST RESULTS

**Slump (in) (C-143):** 6  
**Air Content (%) (C-231):** 5.6  
**Air Temp (°F):** 52  
**Conc. Temp (°F) (C-1064):** 62

**Load Number:** 2  
**Mixer Number:** 192  
**Ticket Number:** 3933278  
**Cubic Yards:** 10  
**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area (In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-53A		4.00	12.57	10/26/2009	Lab	7	4	49.2	3920
984-53B		4.00	12.57	11/16/2009	Lab	28	4	78.2	6220
984-53C		4.00	12.57	11/16/2009	Lab	28	4	75.6	6020
984-53D				Hold	Lab				

#### Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks:

## Report of Concrete Compressive Strength

ASTM C-31 &amp; C-39

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**
**General Contractor:**
**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 10/21/2009    **Time Cast:** 7:35    **Date Received:** 10/22/2009

**Placement Location:** WALKS: LINE

**Placement Method:** CONVEYOR

**Placement Vol. (yd<sup>3</sup>):** 12.5

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** MRWR

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 5 1/4

**Load Number:** 2

**Air Content (%) (C-231):**                      **Air WR:** 7.5

**Mixer Number:** 177

**Air Temp (°F):** 47

**Ticket Number:** 3933301

**Conc. Temp (°F) (C-1064):** 64

**Cubic Yards:** 6

**Design (psi):** 4000

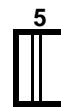
Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area (In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-54A		4.00	12.57	10/28/2009	Lab	7	4	39.8	3170
984-54B		4.00	12.57	11/18/2009	Lab	28	4	55.4	4410
984-54C		4.00	12.57	11/18/2009	Lab	28	4	62.4	4970
984-54D				Hold	Lab				

#### Fracture Types


 1  
Cone

 2  
Cone and Split

 3  
Cone and Shear

 4  
Shear

 5  
Columnar

Remarks:

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 11/13/2009      **Time Cast:** 8:32      **Date Received:** 11/16/2009  
**Placement Location:** SLAB: STAIR TOWER A + B, ELEVATOR LOBBY ROOMS 1002, 1003, 1004 & 1005

**Placement Method:** PUMP\*      **Placement Vol. (yd<sup>3</sup>):** 30  
**Cylinders Made By:** VLT      **Aggregate Size (in):** 3/4

### INITIAL CURING CONDITIONS

**Temperatures**

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

### DELIVERY INFORMATION

**Admixtures:** MRWR, POZZUTEC 20  
 2%

### TEST RESULTS

**Slump (in) (C-143):**      **Slump WR:** 6 1/4      **Load Number:** 2  
**Air Content (%) (C-231):**      **Air WR:** 2.7      **Mixer Number:** 193  
**Air Temp (°F):** 35      **Ticket Number:** 3933558  
**Conc. Temp (°F) (C-1064):** 60      **Cubic Yards:** 10  
**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area (in <sup>2</sup> )	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-58A		4.00	12.57	11/20/2009	Lab	7	4	54.2	4310
984-58B		4.00	12.57	12/11/2009	Lab	28	4	82.4	6560
984-58C		4.00	12.57	12/11/2009	Lab	28	4	89.8	7150
984-58D				Hold	Lab				

Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks: \* NORTHEAST CONCRETE

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 11/19/2009      **Time Cast:** 7:44

**Date Received:** 11/20/2009

**Placement Location:** STAIR PANS: STAIR TOWER "A"

**Placement Method:** PUMP\*

**Placement Vol. (yd<sup>3</sup>):** 4.5

**Cylinders Made By:** VLT

**Aggregate Size (in):** 3/8

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** MRWR - GLENIUM  
 POZZUTEC 20 2%

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 5

**Load Number:** 1

**Air Content (%) (C-231):**                      **Air WR:** 2.3

**Mixer Number:** 176

**Air Temp (°F):** 31

**Ticket Number:** 3933589

**Conc. Temp (°F) (C-1064):** 64

**Cubic Yards:** 4.5

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-59A		4.00	12.57	11/30/2009	Lab	11	4	50.8	4040
984-59B		4.00	12.57	12/17/2009	Lab	28	4	80.6	6410
984-59C		4.00	12.57	12/17/2009	Lab	28	4	78.8	6270
984-59D				Hold	Lab				

#### Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks: Due to the holiday testing was moved to Monday 11-30-09

\* NORTHEAST CONCRETE PUMPING

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**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 11/23/2009      **Time Cast:** 9:30      **Date Received:** 11/24/2009

**Placement Location:** STAIR TOWER "B" - STAIR PANS

**Placement Method:** DIRECT DISCHARGE - WHEEL BARREL

**Placement Vol. (yd<sup>3</sup>):** 4

**Cylinders Made By:** VLT

**Aggregate Size (in):** 3/8

### INITIAL CURING CONDITIONS

**Temperatures**

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

### DELIVERY INFORMATION

**Admixtures:** MRWR - GLENIUM  
 POZZUTEC 20 2%

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 3 3/4

**Load Number:** 1

**Air Content (%) (C-231):**                      **Air WR:** 3.2

**Mixer Number:** 176

**Air Temp (°F):** 35

**Ticket Number:** 3933600

**Conc. Temp (°F) (C-1064):** 62

**Cubic Yards:** 4

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-60A		4.00	12.57	11/30/2009	Lab	7	4	47.0	3740
984-60B		4.00	12.57	12/21/2009	Lab	28	4	75.0	5970
984-60C		4.00	12.57	12/21/2009	Lab	28	4	75.8	6030
984-60D				Hold	Lab				

Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks:

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 12/29/2009      **Time Cast:** 7:41      **Date Received:** 12/30/2009

**Placement Location:** SLAB ON DECK: 3RD FLOOR LINE A TO D, 13 TO 7

**Placement Method:** PUMP

**Placement Vol. (yd<sup>3</sup>):** 310

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** MRWR - GLENIUM  
 POZZUTEC 20 1%

### TEST RESULTS

**Slump (in) (C-143):**      **Slump WR:** 5.5

**Load Number:** 2

**Air Content (%) (C-231):**      **Air WR:** 2.0

**Mixer Number:** 192

**Air Temp (°F):** 28

**Ticket Number:** 3934059

**Conc. Temp (°F) (C-1064):** 71

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area (in) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-63A		4.00	12.57	1/5/2010	Lab	7	4	59.2	4710
984-63B		4.00	12.57	1/26/2010	Lab	28	4	82.2	6540
984-63C		4.00	12.57	1/26/2010	Lab	28	4	84.8	6750
984-63D				Hold	Lab				

#### Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks:

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 12/29/2009      **Time Cast:** 8:50      **Date Received:** 12/30/2009

**Placement Location:** SLAB ON DECK: 3RD FLOOR LINE A TO D, 13 TO 7

**Placement Method:** PUMP

**Placement Vol. (yd³):** 310

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** MRWR - GLENIUM  
 POZZUTEC 20 1%

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 6 3/4

**Load Number:** 8

**Air Content (%) (C-231):**                      **Air WR:** 1.7

**Mixer Number:** 176

**Air Temp (°F):** 28

**Ticket Number:** 3934065

**Conc. Temp (°F) (C-1064):** 59

**Cubic Yards:** 10

**Design (psi):** 4000

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)
984-64A		4.00	12.57	1/5/2010	Lab	7	4	53.2	4230
984-64B		4.00	12.57	1/26/2010	Lab	28	4	75.0	5970
984-64C		4.00	12.57	1/26/2010	Lab	28	4	79.8	6350
984-64D				Hold	Lab				

#### Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks:

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 12/29/2009      **Time Cast:** 9:31      **Date Received:** 12/30/2009

**Placement Location:** SLAB ON DECK: 3RD FLOOR LINE A TO D, 13 TO 7

**Placement Method:** PUMP

**Placement Vol. (yd<sup>3</sup>):** 310

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

**Temperatures**

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

### DELIVERY INFORMATION

**Admixtures:** MRWR - GLENIUM  
 POZZUTEC 20 1%

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 6.5

**Load Number:** 12

**Air Content (%) (C-231):**                      **Air WR:** 2.2

**Mixer Number:** 183

**Air Temp (°F):** 26

**Ticket Number:** 3934069

**Conc. Temp (°F) (C-1064):** 52

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-65A		4.00	12.57	1/5/2010	Lab	7	4	50.6	4030
984-65B		4.00	12.57	1/26/2010	Lab	28	4	73.0	5810
984-65C		4.00	12.57	1/26/2010	Lab	28	4	76.0	6050
984-65D				Hold	Lab				

#### Fracture Types



1  
Cone



2  
Cone and Split



3  
Cone and Shear



4  
Shear



5  
Columnar

Remarks:



**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**
**General Contractor:**
**Concrete Supplier:** DRAGON PRODUCTS

**PLACEMENT INFORMATION**
**Date Cast:** 12/29/2009      **Time Cast:** 11:05      **Date Received:** 12/30/2009

**Placement Location:** SLAB ON DECK: 3RD FLOOR LINE A TO D, 13 TO 7

**Placement Method:** PUMP

**Placement Vol. (yd<sup>3</sup>):** 310

**Cylinders Made By:** VLT

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

**INITIAL CURING CONDITIONS**
**Temperatures**
**Minimum (°F)**      **Maximum (°F)**
**DELIVERY INFORMATION**
**Admixtures:** MRWR - GLENIUM  
 POZZUTEC 20 1%

**TEST RESULTS**
**Slump (in) (C-143):**      **Slump WR:** 6 1/4

**Load Number:** 18

**Air Content (%) (C-231):**      **Air WR:** 2.3

**Mixer Number:** 171

**Air Temp (°F):** 24

**Ticket Number:** 3939076

**Conc. Temp (°F) (C-1064):** 62

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-66A		4.00	12.57	1/5/2010	Lab	7	4	48.4	3850
984-66B		4.00	12.57	1/26/2010	Lab	28	4	66.2	5270
984-66C		4.00	12.57	1/26/2010	Lab	28	4	67.8	5400
984-66D				Hold	Lab				

**Fracture Types**


Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks:

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 12/29/2009      **Time Cast:** 12:10      **Date Received:** 12/30/2009

**Placement Location:** SLAB ON DECK: 3RD FLOOR LINE A TO D, 13 TO 7

**Placement Method:** PUMP

**Placement Vol. (yd<sup>3</sup>):** 310

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** MRWR - GLENIUM  
 POZZUTEC 20 1%

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 6  
**Air Content (%) (C-231):**                      **Air WR:** 2.2  
**Air Temp (°F):** 22  
**Conc. Temp (°F) (C-1064):** 53

**Load Number:** 24  
**Mixer Number:** 192  
**Ticket Number:** 3934084  
**Cubic Yards:** 10  
**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area (In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-67A		4.00	12.57	1/5/2010	Lab	7	4	47.8	3800
984-67B		4.00	12.57	1/26/2010	Lab	28	4	73.6	5860
984-67C		4.00	12.57	1/26/2010	Lab	28	4	68.0	5410
984-67D				Hold	Lab				

#### Fracture Types



1  
Cone



2  
Cone and Split



3  
Cone and Shear



4  
Shear



5  
Columnar

Remarks:

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 12/29/2009      **Time Cast:** 1:25      **Date Received:** 12/30/2009

**Placement Location:** SLAB ON DECK: 3RD FLOOR LINE A TO D, 13 TO 7

**Placement Method:** PUMP

**Placement Vol. (yd<sup>3</sup>):** 310

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

**Temperatures**

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

### DELIVERY INFORMATION

**Admixtures:** MRWR - GLENIUM  
 POZZUTEC 20 1%

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 5.5

**Load Number:** 29

**Air Content (%) (C-231):**                      **Air WR:** 2.1

**Mixer Number:** 193

**Air Temp (°F):** 19

**Ticket Number:** 3934089

**Conc. Temp (°F) (C-1064):** 51

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-68A		4.00	12.57	1/5/2010	Lab	7	4	50.4	4010
984-68B		4.00	12.57	1/26/2010	Lab	28	4	70.4	5600
984-68C		4.00	12.57	1/26/2010	Lab	28	4	68.2	5430
984-68D				Hold	Lab				

Fracture Types



1  
Cone



2  
Cone and Split



3  
Cone and Shear



4  
Shear



5  
Columnar

Remarks:

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 1/7/2010      **Time Cast:** 8:15      **Date Received:** 1/8/2010

**Placement Location:** 3RD FLOOR SLAB ON DECK LINE 8 TO 1, A TO D

**Placement Method:** PUMP\*

**Placement Vol. (yd<sup>3</sup>):** 360

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

**Temperatures**

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

### DELIVERY INFORMATION

**Admixtures:** MRWR  
 POZZUTEC 20 1%

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 6 3/4

**Load Number:** 4

**Air Content (%) (C-231):**                      **Air WR:** 2.0

**Mixer Number:** 160

**Air Temp (°F):** 31

**Ticket Number:** 3934132

**Conc. Temp (°F) (C-1064):** 55

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-73A		4.00	12.57	1/14/2010	Lab	7	4	50.8	4040
984-73B		4.00	12.57	2/4/2010	Lab	28	4	69.0	5490
984-73C		4.00	12.57	2/4/2010	Lab	28	4	71.4	5680
984-73D				Hold	Lab				

Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks:

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 1/7/2010      **Time Cast:** 9:05      **Date Received:** 1/8/2010

**Placement Location:** 3RD FLOOR SLAB ON DECK LINE 8 TO 1, A TO D

**Placement Method:** PUMP\*

**Placement Vol. (yd<sup>3</sup>):** 360

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

**Temperatures**

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

### DELIVERY INFORMATION

**Admixtures:** MRWR  
 POZZUTEC 20 1%

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 7  
**Air Content (%) (C-231):**                      **Air WR:** 2.2  
**Air Temp (°F):** 32  
**Conc. Temp (°F) (C-1064):** 61

**Load Number:** 9  
**Mixer Number:** 190  
**Ticket Number:** 3934137  
**Cubic Yards:** 10  
**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-74A		4.00	12.57	1/14/2010	Lab	7	4	45.2	3600
984-74B		4.00	12.57	2/4/2010	Lab	28	4	71.4	5680
984-74C		4.00	12.57	2/4/2010	Lab	28	4	66.4	5280
984-74D				Hold	Lab				

Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks:

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 1/7/2010      **Time Cast:** 9:40      **Date Received:** 1/8/2010

**Placement Location:** 3RD FLOOR SLAB ON DECK LINE 8 TO 1, A TO D

**Placement Method:** PUMP\*

**Placement Vol. (yd³):** 360

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

**Temperatures**

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

### DELIVERY INFORMATION

**Admixtures:** MRWR  
 POZZUTEC 20 1%

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 5 3/4

**Load Number:** 13

**Air Content (%) (C-231):**                      **Air WR:** 2.1

**Mixer Number:** 192

**Air Temp (°F):** 32

**Ticket Number:** 3934141

**Conc. Temp (°F) (C-1064):** 58

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-75A		4.00	12.57	1/14/2010	Lab	7	4	51.2	4080
984-75B		4.00	12.57	2/4/2010	Lab	28	4	80.0	6370
984-75C		4.00	12.57	2/4/2010	Lab	28	4	75.4	6000
984-75D				Hold	Lab				

Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks:

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**
**General Contractor:**
**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 1/7/2010      **Time Cast:** 10:30      **Date Received:** 1/8/2010

**Placement Location:** 3RD FLOOR SLAB ON DECK LINE 8 TO 1, A TO D

**Placement Method:** PUMP\*

**Placement Vol. (yd<sup>3</sup>):** 360

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** MRWR  
 POZZUTEC 20 1%

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 6  
**Air Content (%) (C-231):**                      **Air WR:** 2.4  
**Air Temp (°F):** 33  
**Conc. Temp (°F) (C-1064):** 58

**Load Number:** 18  
**Mixer Number:** 160  
**Ticket Number:** 3934146  
**Cubic Yards:** 10  
**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-76A		4.00	12.57	1/14/2010	Lab	7	4	55.0	4380
984-76B		4.00	12.57	2/4/2010	Lab	28	4	77.6	6180
984-76C		4.00	12.57	2/4/2010	Lab	28	4	77.6	6180
984-76D				Hold	Lab				

#### Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks:



# Report of Concrete Compressive Strength

ASTM C-31 & C-39

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

## PLACEMENT INFORMATION

**Date Cast:** 1/7/2010      **Time Cast:** 11:28      **Date Received:** 1/8/2010

**Placement Location:** 3RD FLOOR SLAB ON DECK LINE 8 TO 1, A TO D

**Placement Method:** PUMP\*

**Placement Vol. (yd³):** 360

**Cylinders Made By:** VLT

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

## INITIAL CURING CONDITIONS

### Temperatures

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

## DELIVERY INFORMATION

**Admixtures:** MRWR  
POZZUTEC 20 1%

## TEST RESULTS

**Slump (in) (C-143):**      **Slump WR:** 6.5  
**Air Content (%) (C-231):**      **Air WR:** 2.2  
**Air Temp (°F):** 35  
**Conc. Temp (°F) (C-1064):** 58

**Load Number:** 22  
**Mixer Number:** 176  
**Ticket Number:** 3934150  
**Cubic Yards:** 10  
**Design (psi):** 4000

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)
984-77A		4.00	12.57	1/14/2010	Lab	7	4	59.8	4760
984-77B		4.00	12.57	2/4/2010	Lab	28	4	74.2	5910
984-77C		4.00	12.57	2/4/2010	Lab	28	4	70.8	5640
984-77D				Hold	Lab				

### Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks:



**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 1/7/2010      **Time Cast:** 12:22      **Date Received:** 1/8/2010

**Placement Location:** 3RD FLOOR SLAB ON DECK LINE 8 TO 1, A TO D

**Placement Method:** PUMP\*

**Placement Vol. (yd<sup>3</sup>):** 360

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

**Temperatures**

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

### DELIVERY INFORMATION

**Admixtures:** MRWR  
 POZZUTEC 20 1%

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 6 1/4  
**Air Content (%) (C-231):**                      **Air WR:** 2.4  
**Air Temp (°F):** 35  
**Conc. Temp (°F) (C-1064):** 62

**Load Number:** 27  
**Mixer Number:** 192  
**Ticket Number:** 3934155  
**Cubic Yards:** 10  
**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-78A		4.00	12.57	1/14/2010	Lab	7	4	57.0	4540
984-78B		4.00	12.57	2/4/2010	Lab	28	4	74.0	5890
984-78C		4.00	12.57	2/4/2010	Lab	28	4	72.6	5780
984-78D				Hold	Lab				

Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks:



# Report of Concrete Compressive Strength

ASTM C-31 & C-39

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

## PLACEMENT INFORMATION

**Date Cast:** 1/7/2010      **Time Cast:** 1:38      **Date Received:** 1/8/2010

**Placement Location:** 3RD FLOOR SLAB ON DECK LINE 8 TO 1, A TO D

**Placement Method:** PUMP\*

**Placement Vol. (yd³):** 360

**Cylinders Made By:** VLT

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

## INITIAL CURING CONDITIONS

### Temperatures

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

## DELIVERY INFORMATION

**Admixtures:** MRWR  
POZZUTEC 20 1%

## TEST RESULTS

**Slump (in) (C-143):**      **Slump WR:** 7  
**Air Content (%) (C-231):**      **Air WR:** 1.8  
**Air Temp (°F):** 35  
**Conc. Temp (°F) (C-1064):** 60

**Load Number:** 33  
**Mixer Number:** 180  
**Ticket Number:** 3934161  
**Cubic Yards:** 10  
**Design (psi):** 4000

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)
984-79A		4.00	12.57	1/14/2010	Lab	7	4	45.4	3610
984-79B		4.00	12.57	2/4/2010	Lab	28	4	67.4	5360
984-79C		4.00	12.57	2/4/2010	Lab	28	4	63.4	5050
984-79D				Hold	Lab				

### Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks:

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 1/14/2010      **Time Cast:** 7:53      **Date Received:** 1/15/2010

**Placement Location:** ROOF SLABS: PENTHOUSE HVAC - AIR HANDLING UNIT CHILLER PAD

**Placement Method:** PUMP

**Placement Vol. (yd<sup>3</sup>):** 80

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

**Temperatures**

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

### DELIVERY INFORMATION

**Admixtures:** MRWR, POZZUTEC 20  
 2%

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 6 3/4

**Load Number:** 2

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

**Mixer Number:** 180

**Air Temp (°F):** 12

**Ticket Number:** 3934207

**Conc. Temp (°F) (C-1064):** 67

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area (in) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-87A		4.00	12.57	1/21/2010	Lab	7	4	57.4	4570
984-87B		4.00	12.57	2/11/2010	Lab	28	4	80.0	6370
984-87C		4.00	12.57	2/11/2010	Lab	28	4	78.7	6260
984-87D				Hold	Lab				

Fracture Types



Cone



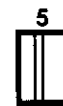
Cone and Split



Cone and Shear



Shear



Columnar

Remarks:

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
 PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

### PLACEMENT INFORMATION

**Date Cast:** 1/14/2010      **Time Cast:** 9:24      **Date Received:** 1/15/2010

**Placement Location:** ROOF SLABS: PENTHOUSE HVAC - AIR HANDLING UNIT CHILLER PAD

**Placement Method:** PUMP

**Placement Vol. (yd<sup>3</sup>):** 80

**Cylinders Made By:** VLT

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

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** MRWR, POZZUTEC 20  
2%

### TEST RESULTS

**Slump (in) (C-143):**                      **Slump WR:** 5 3/4

**Load Number:** 6

**Air Content (%) (C-231):**                      **Air WR:** 6.0

**Mixer Number:** 192

**Air Temp (°F):** 12

**Ticket Number:** 3934211

**Conc. Temp (°F) (C-1064):** 62

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area (in) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
984-88A		4.00	12.57	1/21/2010	Lab	7	4	58.8	4680
984-88B		4.00	12.57	2/11/2010	Lab	28	4	78.4	6240
984-88C		4.00	12.57	2/11/2010	Lab	28	4	75.8	6030
984-88D				Hold	Lab				

#### Fracture Types



1  
Cone



2  
Cone and Split



3  
Cone and Shear



4  
Shear



5  
Columnar

Remarks:



# Report of Concrete Compressive Strength

ASTM C-31 & C-39

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Concrete Supplier:** DRAGON PRODUCTS

**PLACEMENT INFORMATION**

**Date Cast:** 4/23/2010      **Time Cast:** 2:24

**Date Received:** 4/27/2010

**Placement Location:** LINE D, 6 TO 7 - ENTRY WALLS

**Placement Method:** DIRECT DISCHARGE

**Placement Vol. (yd³):** 11.5

**Cylinders Made By:** VLT

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

**INITIAL CURING CONDITIONS**

**Temperatures**

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

**DELIVERY INFORMATION**

**Admixtures:** MRWR

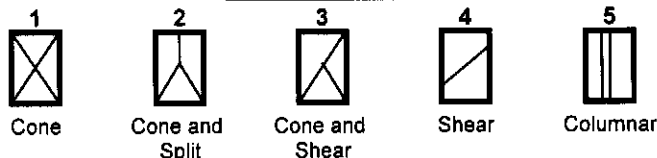
**TEST RESULTS**

**Slump (in) (C-143):**                      **Slump WR:** 4  
**Air Content (%) (C-231):**                      **Air WR:** 6.0  
**Air Temp (°F):** 52  
**Conc. Temp (°F) (C-1064):** 65

**Load Number:** 1  
**Mixer Number:** 190  
**Ticket Number:** 3934720  
**Cubic Yards:** 6  
**Design (psi):** 4000

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)
984-104A		4.00	12.57	4/28/2010	Lab	5	4	31.0	2470
984-104B		4.00	12.57	5/21/2010	Lab	28	4	63.4	5050
984-104C		4.00	12.57	5/21/2010	Lab	28	4	62.6	4980
984-104D				Hold	Lab				

Fracture Types



Remarks:

**Tab 9**

**MATTHEW J. MILLER, P.E.**

STRUCTURAL ENGINEERING CONSULTANT

23 THORNBURY WAY  
WINDHAM, ME 04062  
207.232.2258**SPECIAL INSPECTIONS OF  
PRECAST CONCRETE****Report No. 3-003**Project No.: 09012 Date: 10/15/2009Project Name: Martin's Point MOB Special Inspections Time: 1:45pm - 3:15pmWeather: Cloudy, Low 40'sPresent at Site: Tim Street (Pizzagalli), Matthew MillerLocation(s) of Inspection: Lines A to D & Lines 11 to 13

Item:	General Conformance	Non Conformance	Corrected while on site	N/A
1. Contractor using approved shop drawings for precast erection.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Member sizes, profiles and piece marks in conformance with contract documents and approved shop drawings.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Connection details in conformance with contract documents and approved shop drawings.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Is reinspection required?

Yes  No **Comments:** Precast Erection was being performed while I was on site. The erected precast members observed were in conformance with the structural drawings and approved shop drawings.**Inspected By:** Matthew J. Miller, P.E.

**MATTHEW J. MILLER, P.E.**

STRUCTURAL ENGINEERING CONSULTANT

23 THORNBURY WAY  
WINDHAM, ME 04062  
207.232.2258**SPECIAL INSPECTIONS OF  
PRECAST CONCRETE****Report No. 3-004**Project No.: 09012 Date: 10/29/2009Project Name: Martin's Point MOB Special Inspections Time: 9:15am - 10:15amWeather: Sunny, Mid 40'sPresent at Site: Tim Street (Pizzagalli), Matthew MillerLocation(s) of Inspection: Lines A to D & Lines 7 to 11

Item:	General Conformance	Non Conformance	Corrected while on site	N/A
1. Contractor using approved shop drawings for precast erection.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Member sizes, profiles and piece marks in conformance with contract documents and approved shop drawings.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Connection details in conformance with contract documents and approved shop drawings.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Is reinspection required?

Yes  No **Comments:** Precast Erection was being performed while I was on site. The erected precast members observed were in conformance with the structural drawings and approved shop drawings.**Inspected By:** Matthew J. Miller, P.E.



**MATTHEW J. MILLER, P.E.**

STRUCTURAL ENGINEERING CONSULTANT

23 THORNBURY WAY  
WINDHAM, ME 04062  
207.232.2258**SPECIAL INSPECTIONS OF  
PRECAST CONCRETE****Report No. 3-005**Project No.: 09012 Date: 11/13/2009Project Name: Martin's Point MOB Special Inspections Time: 10:00am - 11:30amWeather: Mostly Cloudy, Low 40'sPresent at Site: Tim Street (Pizzagalli), Matthew MillerLocation(s) of Inspection: Lines A to D & Lines 8 to 13

Item:	General Conformance	Non Conformance	Corrected while on site	N/A
1. Contractor using approved shop drawings for precast erection.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Member sizes, profiles and piece marks in conformance with contract documents and approved shop drawings.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Connection details in conformance with contract documents and approved shop drawings.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Is reinspection required?

Yes  No **Comments:** Erection of precast double tee's and columns was substantially complete. Workers were on site finishing up precast connections. There were several areas where remediation work needed to be completed, with the plan to finalize the precast by the end of next week.**Inspected By:** Matthew J. Miller, P.E.

**Tab 10**



# Masonry Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	12-14-09
<b>Masonry Contractor:</b>	Maine Masonry	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Pour #1: 18 <sup>th</sup> course, line A from 7 to 13. line 13 from A to C. Elevation: 12'	<b>SWCE Rep.:</b>	VLT
		<b>Arrived at Site:</b>	9:20
		<b>Left Site:</b>	11:00

Referenced Drawings	Date	Page	Revision	Comments
Harmac	7/2/09	R1 & R2		

### Materials

#### Masonry Construction

Proportioning of site-mixed mortar	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	See notes
Construction of mortar joints	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Placement of masonry units	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Location of reinforcement and connectors, ties	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	As required
Unfinished masonry covered to protect from the weather	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Inside heated staging area
Cold-weather or Hot-weather construction?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Staging covered and heated
If yes, were requirements of ACI 530.1 Part 1.8 conditions met?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Flashing installation – <i>material and placement</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	n/a
Weeps – <i>material and placement</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	n/a

#### Grouting

Grout space observed prior to grouting	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Cells appeared to be clear
Proper ready-mix or onsite mix grout used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Ready-mix delivered by F.R. Carroll
Placement of reinforcement and connectors	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Placement of grout ( <i>consolidation, reconsolidation</i> )	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Grout placed by pump/Vibrator used
Embedded items and accessories installation	Yes <input type="checkbox"/>	No <input type="checkbox"/>	n/a

#### Non Conformance Items Observed

Yes  No

Non Conformance Item Description:

Action Taken by SWCE:

Person(s) Notified:

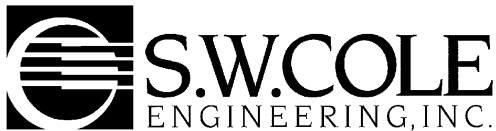
<b>FIELD TESTING PERFORMED</b>	Mortar <input type="checkbox"/>	Grout <input checked="" type="checkbox"/>
<b>SET NO:</b>	984-61	

**Notes:** SWCE not onsite for proportioning of site-mixed mortar, construction of mortar joints or placement of masonry units. SWCE performed inspection on 12/14/09 and Maine Masonry's construction appeared to comply with job specifications at this location. 25 total yards delivered by F.R. Carroll. Temperature inside heated staging area 64°.

Attachments: Photos

Reviewed By: 





## Masonry Construction Observation Report

<b>Project Name/Location:</b>	Martin's Point Health Care	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martin's Point Health Care	<b>Date:</b>	12-24-09
<b>Masonry Contractor:</b>	Maine Masonry	<b>Sheet:</b>	1 of 1
<b>Inspection Location:</b>	Line 1 (C-D) Line A (2-13) Line 13 (A-D)	<b>SWCE Rep.:</b>	TBA
		<b>Arrived at Site:</b>	10:00 am
		<b>Left Site:</b>	1:00 pm

Referenced Drawings	Date	Page	Revision	Comments
HarMac	7-2-09	R1-R3	0	

### Materials

#### Masonry Construction

Proportioning of site-mixed mortar	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Per Submittal
Construction of mortar joints	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Proper Size Observed
Placement of masonry units	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	8, 10 & 12 CMU Placed correctly
Location of reinforcement and connectors, ties	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Proper Spacing Observed
Unfinished masonry covered to protect from the weather	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Heated Reinforced Poly Tents
Cold-weather or Hot-weather construction?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Cold-weather construction technique Observed
If yes, were requirements of ACI 530.1 Part 1.8 conditions met?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	As Required
Flashing installation – <i>material and placement</i>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Weeps – <i>material and placement</i>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	CMU Block at this time

#### Grouting

Grout space observed prior to grouting	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Mortar fins on line 1 observed to be greater than ½-inch
Proportions of site-mixed grout	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	No grouting occurred at the time of SWCE visit.
Placement of reinforcement and connectors	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	As per reinforcing steel drawings.
Placement of grout ( <i>consolidation, reconsolidation</i> )	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Embedded items and accessories installation	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	As Required

#### Non Conformance Items Observed

Yes  No

Non Conformance Item Description:	Mortar fins larger than ½-inch on line 1, excess mortar in cells and no clean at the 4-foot 8-inch course.
Action Taken by SWCE:	Notified on site representatives when the discontinuity occurred
Person(s) Notified:	Dave Provencher, Pizzagalli / Glen from Maine Masonry

#### FIELD TESTING PERFORMED

Mortar

Grout

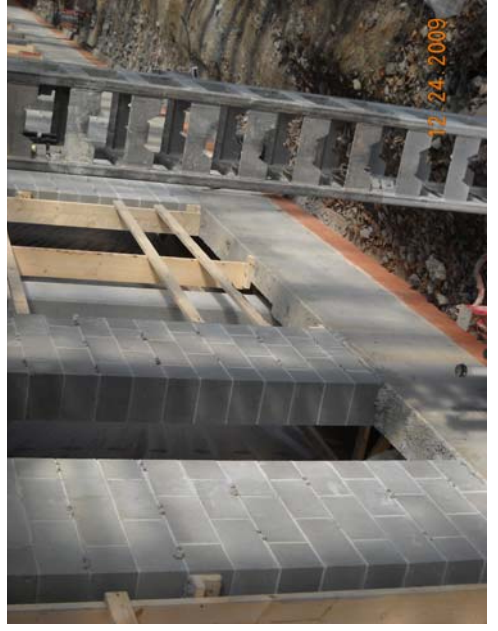
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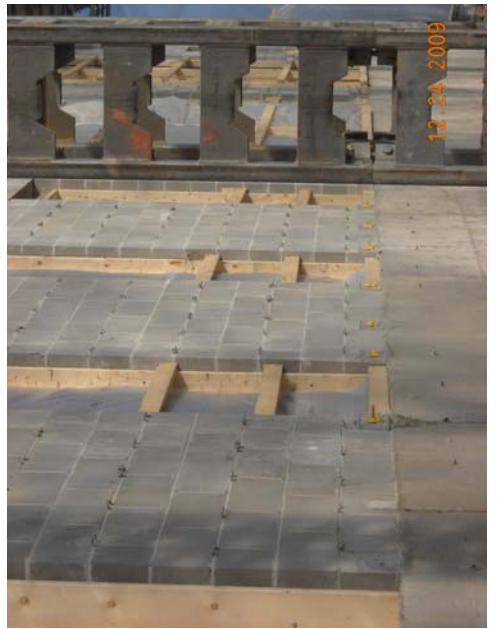
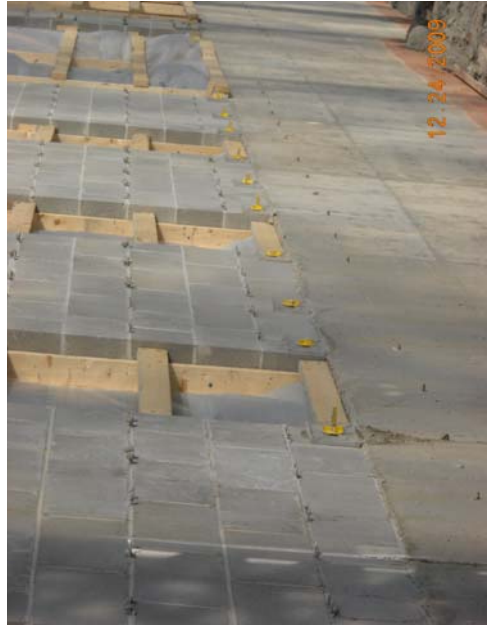
**Notes:** Masons were laying CMU block along column line 1 between lines C-D and along column line A between lines 2-13. Masonry construction observed to be in general compliance with the project documents. Staging was tented and heated. Vertical reinforcing steel, as well as joint reinforcement where observed to be in general compliance with project documents. Vertical reinforcing L-bars along line A were not observed to be installed during SWCE site visit. Re-inspection will be required before grout is placed. SWCE discussed with Maine Masonry that CMU Prisms need to be fabricated for each size of predominant block used on the project.

**Attachments:** Photos

**Reviewed By:** RED











## CONSTRUCTION REPORT

**Project:** Martin's Point Healthcare Building and Parking Garage

**SWCE Project No.:** 05-0927.4

**Client:** Martin's Point Healthcare

**Date:** 12-28-09

**Client's Rep.:** Gene Gilles

**Work in Progress:** Maine Masonry working at line 1 from A to C. Maine Masonry replacing ripped poly at staging areas at approximate wall line 13 from A to B.5, and line A from 13 to line 8.

**Work Performed by SWC Rep.:** Observation and inspection of Masonry Construction.

**General Observations, Discussions, Etc:** SWCE was on-site to perform observations and inspection of masonry construction, as well as grout placement as scheduled by Pizzagalli. Upon arrival SWCE was notified by Maine Masonry that the grout placement had been canceled due to tears in the poly covering the staging and placement area. From approximately wall line 13 from A to B.5 and line A from 13 to 8. SWCE observed that the propane heaters were also shut off at these locations and that Maine Masonry was replacing poly at time of SWCE arrival. The tears in the poly covering the staging areas at these locations were reportedly caused by high winds on Saturday 12/26/09 and Sunday 12/27/09. Maine Masonry stated they will turn heat back on once the staging area poly was replaced. SWCE was not able to inspect rebar and cells at line 13 from A to B.5 due to poly covering the staging area. SWCE observed broken CMU webs at intersection line 1 and A.5. Maine Masonry need to break the CMU webs at this locations to allow spacing for rebar. CMU Cells appeared to be clear and free of debris at line 1 from A to C. Rebar installation not complete and will need to be re-inspected prior to grout placement scheduled for 12/29/09. SWCE reviewed masonry job specifications with Dave Provencher of Pizzagalli and Glen Rich with Maine Masonry. Pizzagalli asked SWCE to confirm location of clean out holes per job specifications. SWCE advised Pizzagalli per job specifications that clean out holes were to be placed at grout lifts over 5' at each location where vertical rebar installed. Maine Masonry stated the only grout placement where the lift was over 5' was on 12/14/09. SWCE advised Maine Masonry and Pizzagalli that grout prisms will need to be made every 5000 square feet. SWCE advised Pizzagalli and Maine Masonry that the ASTM for prism construction is noted in the specifications. Pizzagalli re-scheduled the grout placement for 12/29/09.

**Attachments:** Photos

**Sheet:** 1 of 1

**SWC Rep.:** VLT

**Rev. by:** RED

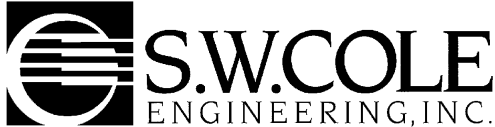
P:\2005\05-0927.4 M - Martin's Point Healthcare, Inc - Portland, ME - Martin's Point Healthcare Building & Parking Garage - RED\DFR's\2009\DFR 12-28-09.doc

GRAY, ME OFFICE

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

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





**AMENDED 1-29-2010**

**Masonry Construction Observation Report**

<b>Project Name/Location:</b>	Martin's Point Health Care	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martin's Point Health Care	<b>Date:</b>	12-29-09
<b>Masonry Contractor:</b>	Maine Masonry	<b>Sheet:</b>	1 of 1
<b>Inspection Location:</b>	Line A (2-7) approx 100.0' Line 13 (B-D) Line approx 87.8'	<b>SWCE Rep.:</b>	TBA
		<b>Arrived at Site:</b>	8:00 am
		<b>Left Site:</b>	12:00 pm

Referenced Drawings	Date	Page	Revision	Comments
HarMac	7-2-09	R1-R3	0	

**Materials**

**Masonry Construction**

Proportioning of site-mixed mortar	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Per submittal
Construction of mortar joints	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Proper size observed
Placement of masonry units	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	8, 10 & 12 CMU Placed correctly
Location of reinforcement and connectors, ties	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Proper spacing observed
Unfinished masonry covered to protect from the weather	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Heated reinforced poly tents
Cold-weather or Hot-weather construction?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Cold-weather construction technique observed
If yes, were requirements of ACI 530.1 Part 1.8 conditions met?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	As required
Flashing installation – <i>material and placement</i>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Weeps – <i>material and placement</i>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	CMU Block at this time

**Grouting**

Grout space observed prior to grouting	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Proportions of site-mixed grout	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	3000 psi grout supplied by F.R Carroll
Placement of reinforcement and connectors	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	As per reinforcing steel drawings.
Placement of grout ( <i>consolidation, reconsolidation</i> )	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Gas operated vibrator used
Embedded items and accessories installation	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	As required

**Non Conformance Items Observed**

Yes  No

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

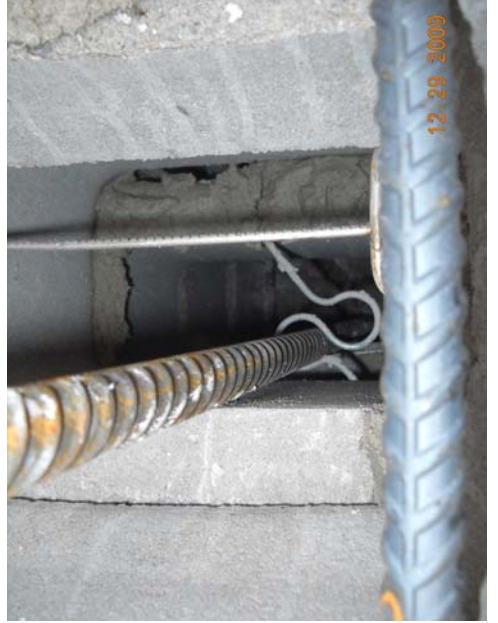
<b>FIELD TESTING PERFORMED</b>	Mortar <input type="checkbox"/>	Grout <input checked="" type="checkbox"/>
<b>SET NO:</b>		984-72

**Notes:** Masons placed 3000psi low lift grout with a wagon grout pump along column line A between lines 2-7 at elevation 100 and along column line 13 between lines B and D at elevation 87.8. The grout was consolidated with an electric vibrator during placement. Masonry grouting techniques observed to be in general compliance with the project documents. Staging was tented and heated. Vertical reinforcing steel, as well as joint reinforcement were observed to be in general compliance with project documents. SWCE discussed all observations with Maine Masonry's on-site foreman and Pizzagalli's project foreman before departing from the site.

**Attachments:** Photos

**Reviewed By:** RED







**AMENDED 1-29-2010**

**Masonry Construction Observation Report**

<b>Project Name/Location:</b>	Martin's Point Health Care	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martin's Point Health Care	<b>Date:</b>	01-04-10
<b>Masonry Contractor:</b>	Maine Masonry	<b>Sheet:</b>	1 of 1
<b>Inspection Location:</b>	Line A (2-8) approx 105.0' Line 13 (B-D) Line approx 88.3'	<b>SWCE Rep.:</b>	TBA
		<b>Arrived at Site:</b>	8:00 am
		<b>Left Site:</b>	12:00 pm

Referenced Drawings	Date	Page	Revision	Comments
HarMac	7-2-09	R1-R3	0	

**Materials**

**Masonry Construction**

Proportioning of site-mixed mortar	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Per Submittal
Construction of mortar joints	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Proper Size Observed
Placement of masonry units	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not observed before Line 13 grouting
Location of reinforcement and connectors, ties	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not observed before Line 13 grouting
Unfinished masonry covered to protect from the weather	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Heated Reinforced Poly Tents
Cold-weather or Hot-weather construction?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Cold-weather construction technique Observed
If yes, were requirements of ACI 530.1 Part 1.8 conditions met?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	As Required
Flashing installation – <i>material and placement</i>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Weeps – <i>material and placement</i>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	CMU Block at this time

**Grouting**

Grout space observed prior to grouting	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Proportions of site-mixed grout	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	3000 psi grout supplied by F.R Carroll
Placement of reinforcement and connectors	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not observed before Line 13 grouting
Placement of grout ( <i>consolidation, reconsolidation</i> )	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Gas operated vibrator used
Embedded items and accessories installation	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	As Required

**Non Conformance Items Observed**

Yes  No

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

<b>FIELD TESTING PERFORMED</b>	Mortar <input type="checkbox"/>	Grout <input type="checkbox"/>
<b>SET NO:</b>		

**Notes:** Masons placed 3000 psi low lift grout with a wagon grout pump along column line 13 between lines B and D at elevation 88.3. The grout was consolidated with an electric vibrator during placement. Masonry grouting techniques observed to be in general compliance with the project documents. SWCE was not on-site for the entire grout placement and observed only the end of the placement activities. Staging was tented and heated. SWCE did not observe all of the reinforcing steel or CMU placement before grouting activities were conducted. SWCE discussed all observations with Maine Masonry's on-site foreman and Pizzagalli's project foreman before departing from the site.

**Attachments:** Photos

**Reviewed By:** RED









## Masonry Construction Observation Report

<b>Project Name/Location:</b>	Martin's Point Health Care	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martin's Point Health Care	<b>Date:</b>	01-06-10
<b>Masonry Contractor:</b>	Maine Masonry	<b>Sheet:</b>	1 of 1
<b>Inspection Location:</b>	Line A (2-8), Line A (8-13), Line 13 (C-D)	<b>SWCE Rep.:</b>	TBA
		<b>Arrived at Site:</b>	9:00 am
		<b>Left Site:</b>	10:00 am

Referenced Drawings	Date	Page	Revision	Comments
HarMac	7-2-09	R1-R3	0	

### Materials

#### Masonry Construction

Proportioning of site-mixed mortar	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Per submittal
Construction of mortar joints	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Proper size observed
Placement of masonry units	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	8, 10 & 12 CMU placed correctly
Location of reinforcement and connectors, ties	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Proper spacing observed
Unfinished masonry covered to protect from the weather	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Heated reinforced poly tents
Cold-weather or Hot-weather construction?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Cold-weather construction technique observed
If yes, were requirements of ACI 530.1 Part 1.8 conditions met?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	As required
Flashing installation – <i>material and placement</i>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Weeps – <i>material and placement</i>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	CMU Block at this time

#### Grouting

Grout space observed prior to grouting	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	As required
Proportions of site-mixed grout	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Placement of reinforcement and connectors	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	As per reinforcing steel drawings.
Placement of grout ( <i>consolidation, reconsolidation</i> )	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Embedded items and accessories installation	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	As required

#### Non Conformance Items Observed

Yes  No

Non Conformance Item Description:

Action Taken by SWCE:

Person(s) Notified:

FIELD TESTING PERFORMED	Mortar <input checked="" type="checkbox"/>	Grout <input checked="" type="checkbox"/>
<b>SET NO:</b>	984-92	984-93

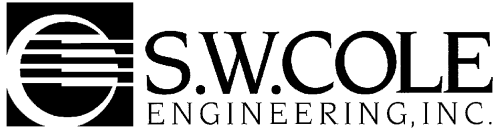
**Notes:** Masons were laying CMU block along column line A between lines 2-8 at an elevation of 108 and at the second floor elevator lobby 4-feet above the precast concrete floor. Masonry construction observed to be in general compliance with the project documents. Staging was tented and heated. Vertical reinforcing steel, as well as joint reinforcement were observed to be in general compliance with project documents. Maine Masonry placed 10 cubic yards of 3000 psi grout along column line 1 between lines B – D and along line A between lines 8-13. SWCE discussed all masonry observations with Maine Masonry's foreman and Pizzagalli's foreman Dave Provencher before departing from the site.

**Attachments:** Photos

**Reviewed By:** RED







# Masonry Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	1-8-10
<b>Masonry Contractor:</b>	Maine Masonry	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Line 13 from A to B. Line A from 13 to 9. Elevation 115'	<b>SWCE Rep.:</b>	VLT
		<b>Arrived at Site:</b>	11:00am
		<b>Left Site:</b>	12:00pm

Referenced Drawings	Date	Page	Revision	Comments
Harmac	7/2/09	R1 & R2	7/16/09	

## Materials

### Masonry Construction

Proportioning of site-mixed mortar	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	See notes
Construction of mortar joints	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Placement of masonry units	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Location of reinforcement and connectors, ties	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	See notes
Unfinished masonry covered to protect from the weather	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Inside heated staging area
Cold-weather or Hot-weather construction?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Staging covered and heated
If yes, were requirements of ACI 530.1 Part 1.8 conditions met?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Flashing installation – <i>material and placement</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	n/a
Weeps – <i>material and placement</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	n/a

### Grouting

Grout space observed prior to grouting	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Cells fully grouted
Proper ready-mix or onsite mix grout used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Ready-mix delivered by F.R. Carroll
Placement of reinforcement and connectors	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Placement of grout ( <i>consolidation, reconsolidation</i> )	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Grout placed by pump/Vibrator used
Embedded items and accessories installation	Yes <input type="checkbox"/>	No <input type="checkbox"/>	n/a

### Non Conformance Items Observed

Yes  No

Non Conformance Item Description:

Action Taken by SWCE:

Person(s) Notified:

<b>FIELD TESTING PERFORMED</b>	Mortar <input type="checkbox"/>	Grout <input checked="" type="checkbox"/>
<b>SET NO:</b>		984-81

**Notes:** SWCE observed F.R. Carroll onsite and Maine Masonry placing grout. SWCE took a sample of grout for lab testing. Masonry construction appeared to comply with job specifications at this location. Rebar installation appeared to comply with job specifications. 10 total yards delivered by F.R. Carroll. Temperature inside heated staging area 54°.

Attachments: Photos

Reviewed By: RED





# Masonry Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	1-12-10
<b>Masonry Contractor:</b>	Maine Masonry	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Line 13, A to B. Line 1 A to B.5 Elevation 95'	<b>SWCE Rep.:</b>	VLT
		<b>Arrived at Site:</b>	6:30am
		<b>Left Site:</b>	12:35pm

Referenced Drawings	Date	Page	Revision	Comments
Harmac	7/2/09	R2	7/16/09	

## Materials

### Masonry Construction

Proportioning of site-mixed mortar	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A
Construction of mortar joints	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Placement of masonry units	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Location of reinforcement and connectors, ties	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Per reinforcing shop drawings
Unfinished masonry covered to protect from the weather	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Inside heated staging area
Cold-weather or Hot-weather construction?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Staging covered and heated
If yes, were requirements of ACI 530.1 Part 1.8 conditions met?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Flashing installation – <i>material and placement</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A
Weeps – <i>material and placement</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A

### Grouting

Grout space observed prior to grouting	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Acceptable
Proper ready-mix or onsite mix grout used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Ready-mix delivered by F.R. Carroll
Placement of reinforcement and connectors	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Per reinforcing shop drawings
Placement of grout ( <i>consolidation, reconsolidation</i> )	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Grout placed by pump/Vibrator used
Embedded items and accessories installation	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A

### Non Conformance Items Observed

Yes  No

Non Conformance Item Description:

Action Taken by SWCE:

Person(s) Notified:

### FIELD TESTING PERFORMED

Mortar

Grout

### SET NO:

984-82

**Notes:** SWCE obtained a sample of grout for lab compressive strength testing. Temperature inside heated staging area 53° F. Clean outs every 32" at vert. reinf. per spec. for high lift grout.

Attachments: Photos

Reviewed By: RED





# Masonry Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	1-13-10
<b>Masonry Contractor:</b>	Maine Masonry	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Line 13 from A to C. Line A from 13 to 9.5; five courses Pour #6 to elevation 115' 4"	<b>SWCE Rep.:</b>	DACJR
		<b>Arrived at Site:</b>	10:10am
		<b>Left Site:</b>	12:00pm

Referenced Drawings	Date	Page	Revision	Comments
Harmac	7/2/09	R1 & R2	7/16/09	

## Materials

### Masonry Construction

Proportioning of site-mixed mortar	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A
Construction of mortar joints	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	(SEE NOTES)
Placement of masonry units	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	(SEE NOTES)
Location of reinforcement and connectors, ties	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Per reinforcing shop drawings
Unfinished masonry covered to protect from the weather	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Inside heated staging area
Cold-weather or Hot-weather construction?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Staging covered and heated
If yes, were requirements of ACI 530.1 Part 1.8 conditions met?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Flashing installation – <i>material and placement</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A
Weeps – <i>material and placement</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A

### Grouting

Grout space observed prior to grouting	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Acceptable
Proper ready-mix or onsite mix grout used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Ready-mix delivered by F.R. Carroll
Placement of reinforcement and connectors	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Per reinforcing shop drawings
Placement of grout ( <i>consolidation, reconsolidation</i> )	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Grout placed by pump/Vibrator used
Embedded items and accessories installation	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A

### Non Conformance Items Observed

Yes  No

Non Conformance Item Description:

Action Taken by SWCE:

Person(s) Notified:

### FIELD TESTING PERFORMED

Mortar

Grout

SET NO:

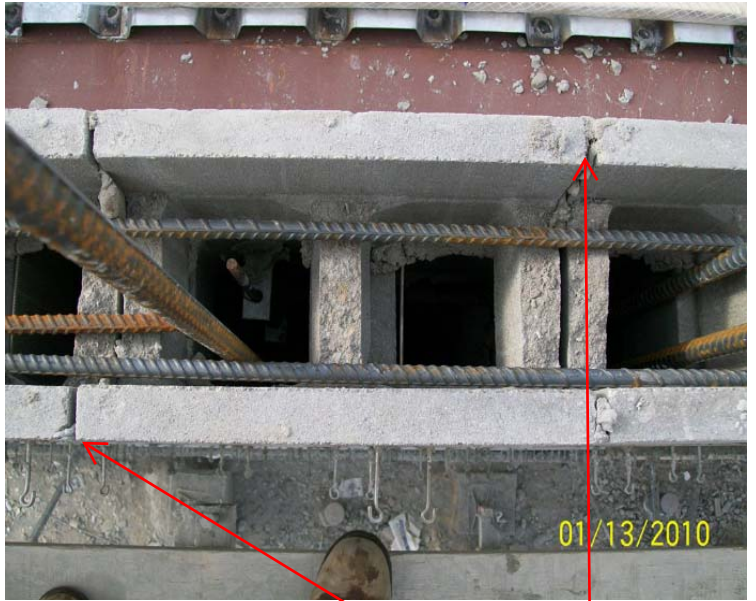
984-83

**Notes:** SWCE obtained a sample of grout for lab compressive strength testing. Temperature inside heated staging area 54°F. Made comment to Maine Masonry and Pizzagalli representatives that some of the head joints in the constructed masonry in the inspected masonry were not constructed properly.

Attachments: Photos

Reviewed By: RED







# Masonry Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	1-14-10
<b>Masonry Contractor:</b>	Maine Masonry	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Line 13, A to B. Line 1 A to B.5 Elevation 95'	<b>SWCE Rep.:</b>	VLT
		<b>Arrived at Site:</b>	6:30am
		<b>Left Site:</b>	12:35pm

Referenced Drawings	Date	Page	Revision	Comments
Harmac	7/2/09	R2	7/16/09	

## Materials

### Masonry Construction

Proportioning of site-mixed mortar	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not observed
Construction of mortar joints	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Placement of masonry units	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Location of reinforcement and connectors, ties	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Per reinforcing shop drawings
Unfinished masonry covered to protect from the weather	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Inside heated staging area
Cold-weather or Hot-weather construction?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Staging covered and heated
If yes, were requirements of ACI 530.1 Part 1.8 conditions met?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Flashing installation – <i>material and placement</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A
Weeps – <i>material and placement</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A

### Grouting

Grout space observed prior to grouting	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Acceptable
Proper ready-mix or onsite mix grout used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Ready-mix delivered by F.R. Carroll
Placement of reinforcement and connectors	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Per reinforcing shop drawings
Placement of grout ( <i>consolidation, reconsolidation</i> )	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Grout placed by pump/Vibrator used
Embedded items and accessories installation	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A

### Non Conformance Items Observed

Yes  No

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

FIELD TESTING PERFORMED	Mortar <input checked="" type="checkbox"/>	Grout <input checked="" type="checkbox"/>
SET NO:	984-89	984-90

**Notes:** SWCE obtained a sample of grout for lab compressive strength testing. Temperature inside heated staging area 54° F. SWCE advised Maine Masonry and Pizzagalli of mortar temp 40°. Maine Masonry stated that propane heater at silo was not working. SWCE advised Pizzagalli there was no heat in the silo. Pizzagalli and Maine Masonry stated they would repair propane heater in order to restore heat to the mortar/grout silo area.

Attachments: Photos

Reviewed By: RED





# Masonry Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	1-15-10
<b>Masonry Contractor:</b>	Maine Masonry	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Line 13, B to D. Elevation 100'	<b>SWCE Rep.:</b>	VLT
		<b>Arrived at Site:</b>	8:00am
		<b>Left Site:</b>	10:00am

Referenced Drawings	Date	Page	Revision	Comments
Harmac	7/2/09	R2	7/16/09	

## Materials

### Masonry Construction

Proportioning of site-mixed mortar	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not observed
Construction of mortar joints	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Placement of masonry units	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Location of reinforcement and connectors, ties	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Per reinforcing shop drawings
Unfinished masonry covered to protect from the weather	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Inside heated staging area
Cold-weather or Hot-weather construction?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Staging covered and heated
If yes, were requirements of ACI 530.1 Part 1.8 conditions met?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Flashing installation – <i>material and placement</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A
Weeps – <i>material and placement</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A

### Grouting

Grout space observed prior to grouting	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Acceptable
Proper ready-mix or onsite mix grout used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Ready-mix delivered by F.R. Carroll
Placement of reinforcement and connectors	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Per reinforcing shop drawings
Placement of grout ( <i>consolidation, reconsolidation</i> )	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Grout placed by pump/Vibrator used
Embedded items and accessories installation	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A

**Non Conformance Items Observed** Yes  No

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

<b>FIELD TESTING PERFORMED</b>	Mortar <input type="checkbox"/>	Grout <input checked="" type="checkbox"/>
<b>SET NO:</b>		984-91

### Notes:

SWCE obtained a sample of grout for lab compressive strength testing. Temperature inside heated staging area 56°F. Lift height less than 5'.

Attachments: Photos

Reviewed By: RED



<b>Project Name/Location:</b>	Martins Point Healthcare Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	1-28-10
<b>Masonry Contractor:</b>	Maine Masonry	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Line D, 1 to 2. Line D, 3.5 to 4.5. Elev. 118' Line A 1 to 2. Elev. 100'	<b>SWCE Rep.:</b>	VLT
		<b>Arrived at Site:</b>	10:00am
		<b>Left Site:</b>	12:00pm

Referenced Drawings	Date	Page	Revision	Comments
Harmac	7/2/09	R1		
Harmac	7/2/09	R3		

### Materials

#### Masonry Construction

Proportioning of site-mixed mortar	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Mixed prior to SWCE arrival
Construction of mortar joints	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Acceptable
Placement of masonry units	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Location of reinforcement and connectors, ties	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Per reinforcing shop drawings
Unfinished masonry covered to protect from the weather	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Inside staging area
Cold-weather or Hot-weather construction?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Staging covered/ See notes
If yes, were requirements of ACI 530.1 Part 1.8 conditions met?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Flashing installation – material and placement	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A
Weeps – material and placement	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A

#### Grouting

Grout space observed prior to grouting	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Acceptable
Proper ready-mix or onsite mix grout used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Ready-mix delivered by F.R. Carroll
Placement of reinforcement and connectors	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Per reinforcing shop drawings
Placement of grout (consolidation, reconsolidation)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Grout placed by pump/Vibrator used
Embedded items and accessories installation	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A

#### Non Conformance Items Observed

 Yes  No 

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

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

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

FIELD TESTING PERFORMED	Mortar <input checked="" type="checkbox"/>	Grout <input checked="" type="checkbox"/>
<b>SET NO:</b>	984-98	984-97

**Notes:** SWCE obtained grout and mortar samples for lab compressive strength testing. Temperature inside heated staging area was 44°F when SWCE arrived at 10am. SWCE advised Pizzagalli that the propane heaters were shut off inside staging at placement area line D. Pizzagalli indicated that heat would be turned back on prior to grout placement. Temp. approx. 53°F after heat turned on. Pizzagalli assisted SWCE with identifying the correct plan Maine Masonry used to install anchor straps at line D #3s @ 24". Maine Masonry installed the anchor straps at this location per SMRT drawing SF503 detail N1.

Attachments: Photos

Reviewed By: RED





## Masonry Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	02-02-10
<b>Masonry Contractor:</b>	Maine Masonry	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Column line 1 between lines C - D	<b>SWCE Rep.:</b>	TBA
		<b>Arrived at Site:</b>	12:00pm
		<b>Left Site:</b>	1:20pm

Referenced Drawings	Date	Page	Revision	Comments
Harmac	7/2/09	R1		
Harmac	7/2/09	R3		

### Materials

#### Masonry Construction

Proportioning of site-mixed mortar	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Mixed prior to SWCE arrival
Construction of mortar joints	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Acceptable
Placement of masonry units	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Location of reinforcement and connectors, ties	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Per reinforcing shop drawings
Unfinished masonry covered to protect from the weather	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Inside staging area
Cold-weather or Hot-weather construction?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Staging covered
If yes, were requirements of ACI 530.1 Part 1.8 conditions met?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Flashing installation – <i>material and placement</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A
Weeps – <i>material and placement</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A

#### Grouting

Grout space observed prior to grouting	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Acceptable
Proper ready-mix or onsite mix grout used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Ready-mix delivered by F.R. Carroll
Placement of reinforcement and connectors	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Per reinforcing shop drawings
Placement of grout ( <i>consolidation, reconsolidation</i> )	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Grout placed by pump/Vibrator used
Embedded items and accessories installation	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A

#### Non Conformance Items Observed

 Yes  No 

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

#### FIELD TESTING PERFORMED

 Mortar 

 Grout 

#### SET NO:

#### Notes:

SWCE observed masonry and reinforcing construction along column line 1 between lines C – D to elevation 114.33 feet. Masonry observed appeared to be in general compliance with project documents. SWCE did not observe grout placement or obtain a grout sample before departing from site. David Provencher was notified of all masonry observations before SWCE departed from site.

Attachments: Photos

Reviewed By: RED







# Masonry Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	2-5-10
<b>Masonry Contractor:</b>	Maine Masonry	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Line D, 9.5 to 13 Elev. 103	<b>SWCE Rep.:</b>	VLT
		<b>Arrived at Site:</b>	10:30am
		<b>Left Site:</b>	12:40pm

Referenced Drawings	Date	Page	Revision	Comments
Harmac	7/2/09	R3		

## Materials

### Masonry Construction

Proportioning of site-mixed mortar	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Mixed prior to SWCE arrival
Construction of mortar joints	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Acceptable
Placement of masonry units	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Location of reinforcement and connectors, ties	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Per reinforcing shop drawings
Unfinished masonry covered to protect from the weather	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Inside staging area
Cold-weather or Hot-weather construction?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Staging covered/See notes
If yes, were requirements of ACI 530.1 Part 1.8 conditions met?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Flashing installation – <i>material and placement</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A
Weeps – <i>material and placement</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A

### Grouting

Grout space observed prior to grouting	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Acceptable
Proper ready-mix or onsite mix grout used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Ready-mix delivered by F.R. Carroll
Placement of reinforcement and connectors	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Per reinforcing shop drawings
Placement of grout ( <i>consolidation, reconsolidation</i> )	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Grout placed by pump/Vibrator used
Embedded items and accessories installation	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A

### Non Conformance Items Observed

Yes  No

Non Conformance Item Description:

Action Taken by SWCE:

Person(s) Notified:

### FIELD TESTING PERFORMED

Mortar

Grout

SET NO:

984-100

### Notes:

SWCE obtained a grout sample for lab compressive strength testing. Temperature inside heated staging area was 62°F. Rebar appeared to be installed per project specifications at bond beam.

Attachments: None

Reviewed By: RED

## Masonry Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	2-11-10
<b>Masonry Contractor:</b>	Maine Masonry	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Line D, 9.5 to 4 Elev. 103	<b>SWCE Rep.:</b>	VLT
		<b>Arrived at Site:</b>	10:00am
		<b>Left Site:</b>	11:30am

Referenced Drawings	Date	Page	Revision	Comments
Harmac	7/2/09	R3		W4

### Materials

#### Masonry Construction

Proportioning of site-mixed mortar	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Mixed prior to SWCE arrival
Construction of mortar joints	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Acceptable
Placement of masonry units	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Location of reinforcement and connectors, ties	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Per reinforcing shop drawings
Unfinished masonry covered to protect from the weather	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Inside staging area
Cold-weather or Hot-weather construction?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Staging covered/See notes
If yes, were requirements of ACI 530.1 Part 1.8 conditions met?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Flashing installation – <i>material and placement</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A
Weeps – <i>material and placement</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A

#### Grouting

Grout space observed prior to grouting	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Acceptable
Proper ready-mix or onsite mix grout used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Ready-mix delivered by F.R. Carroll
Placement of reinforcement and connectors	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Per reinforcing shop drawings
Placement of grout ( <i>consolidation, reconsolidation</i> )	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Grout placed by pump/Vibrator used
Embedded items and accessories installation	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A

#### Non Conformance Items Observed

 Yes  No 

Non Conformance Item Description:

Action Taken by SWCE:

Person(s) Notified:

#### FIELD TESTING PERFORMED

 Mortar 

 Grout 

SET NO:

984-101

#### Notes:

SWCE obtained a grout sample for lab compressive strength testing. SWCE advised Maine Masonry and Pizzagalli of the following issues which were corrected prior to grout placement. Horizontal bar missing at line D from 6 to 7. Maine Masonry installed rebar at this location prior to grout placement. SWCE observed chunks of mortar on rebar at several locations. Maine Masonry cleared rebar of debris prior to grout placement. Rebar appeared to be installed per project specifications at bond beam.

Attachments: Photos

Reviewed By: RED



## Masonry Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	2-15-10
<b>Masonry Contractor:</b>	Maine Masonry	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	Line 1, B to D elev. 115.4 Line A, 1 to 2 elev. 103	<b>SWCE Rep.:</b>	VLT
		<b>Arrived at Site:</b>	12:00pm
		<b>Left Site:</b>	1:30pm

Referenced Drawings	Date	Page	Revision	Comments
Harmac	7/2/09	R1		
Harmac	7/2/09	R2		

### Materials

#### **Masonry Construction**

Proportioning of site-mixed mortar	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Mixed prior to SWCE arrival
Construction of mortar joints	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Acceptable
Placement of masonry units	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Location of reinforcement and connectors, ties	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Per reinforcing shop drawings
Unfinished masonry covered to protect from the weather	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Inside staging area
Cold-weather or Hot-weather construction?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Staging covered and heated
If yes, were requirements of ACI 530.1 Part 1.8 conditions met?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Flashing installation – <i>material and placement</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A
Weeps – <i>material and placement</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A

#### **Grouting**

Grout space observed prior to grouting	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Acceptable
Proper ready-mix or onsite mix grout used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Ready-mix delivered by F.R. Carroll
Placement of reinforcement and connectors	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Per reinforcing shop drawings
Placement of grout ( <i>consolidation, reconsolidation</i> )	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Grout placed by pump/Vibrator used
Embedded items and accessories installation	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A

#### **Non Conformance Items Observed**

 Yes  No 

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

<b>FIELD TESTING PERFORMED</b>	Mortar <input type="checkbox"/>	Grout <input checked="" type="checkbox"/>
<b>SET NO:</b>		984-102

#### **Notes:**

SWCE obtained a grout sample for lab compressive strength testing. Maine Masonry installed anchor straps @ 24" as required. Rebar appeared to be installed per project specifications at bond beam.

Attachments: Photos

Reviewed By: RED



## Masonry Construction Observation Report

<b>Project Name/Location:</b>	Martins Point Healthcare Martins Point Healthcare Bldg & Parking Garage	<b>Project No:</b>	05-0927.4
<b>Client/Client's Rep.:</b>	Martins Point Healthcare/Pizzagalli Const.	<b>Date:</b>	03/10/10
<b>Masonry Contractor:</b>	Maine Masonry	<b>Sheet:</b>	1 of 1
<b>Placement Location:</b>	D Line between Lines 5.5 to 8.4 Elev. 114' to 129' parapet CMU reinforced cells and bond beams	<b>SWCE Rep.:</b>	DACJR
		<b>Arrived at Site:</b>	12:45
		<b>Left Site:</b>	14:07

Referenced Drawings	Date	Page	Revision	Comments
Harmac	7/2/09	R1		
Harmac	7/2/09	R2		

### Materials

#### **Masonry Construction**

Proportioning of site-mixed mortar	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A
Construction of mortar joints	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Visually acceptable
Placement of masonry units	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Visually acceptable
Location of reinforcement and connectors, ties	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Per reinforcing shop drawings
Unfinished masonry covered to protect from the weather	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A
Cold-weather or Hot-weather construction?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A
If yes, were requirements of ACI 530.1 Part 1.8 conditions met?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A
Flashing installation – <i>material and placement</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A
Weeps – <i>material and placement</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A

#### **Grouting**

Grout space observed prior to grouting	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Acceptable
Proper ready-mix or onsite mix grout used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Ready-mix delivered by F.R. Carroll
Placement of reinforcement and connectors	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Per reinforcing shop drawings
Placement of grout ( <i>consolidation, reconsolidation</i> )	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Grout placed by pump/Vibrator used
Embedded items and accessories installation	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A

#### **Non Conformance Items Observed**

 Yes  No 

Non Conformance Item Description:

Action Taken by SWCE:

Person(s) Notified:

#### **FIELD TESTING PERFORMED**

 Mortar 

 Grout 
**SET NO:**

984-103

**Notes:**

Attachments: Photos

Reviewed By: RED





**Tab 11**



**Report of Masonry Prism  
Compressive Strength Test  
ASTM C1314**

Project No.: 05-0927.4

Project Name: Martins Point Healthcare Building & Parking

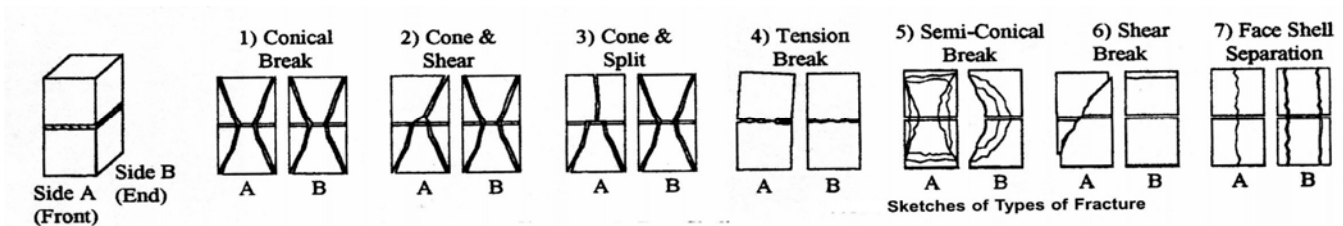
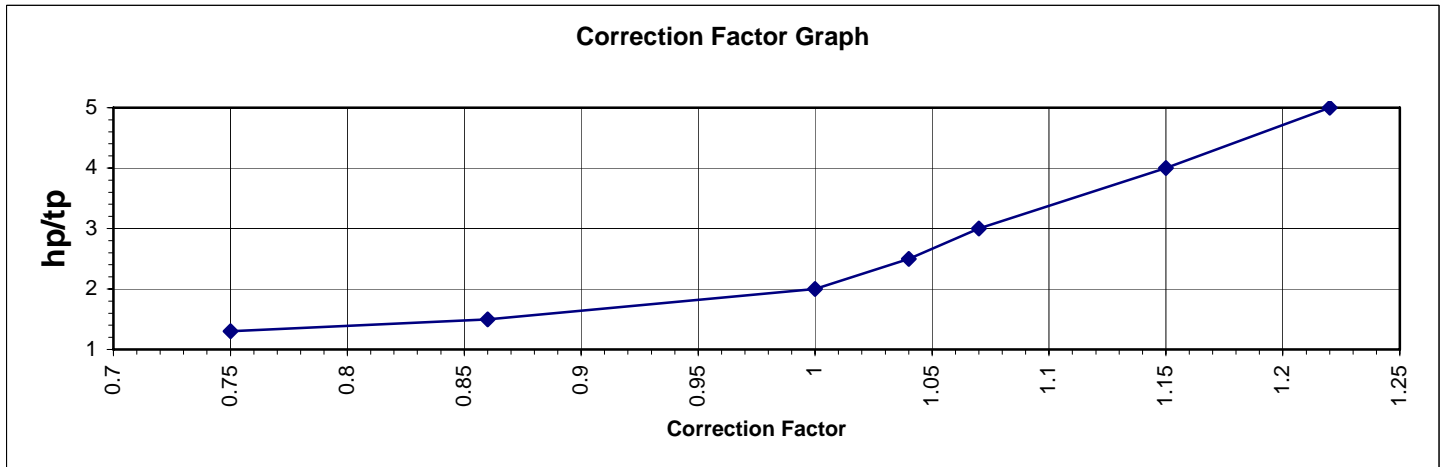
Client: Martins Point Healthcare

Date Specimens Made: 12/29/2009

Block Type: 8" Grouted Half Block

Supplier: Gagne

Lab ID	Spec. Age (Days)	Length (in)	Width (in)	Capped Height (in)	$h_p/t_p$ Ratio	Net Area (in <sup>2</sup> )	Gross Area (in <sup>2</sup> )	Load (kips)	Initial Strength (psi)	Correction Factor	Strength (psi)	Break Type
984-69A	28	7.625	7.625	16	2.1	58.14	58.14	202.8	3488	1.0	3488	1



Remarks:



**Report of Masonry Prism  
Compressive Strength Test  
ASTM C1314**

Project No.: 05-0927.4

Project Name: Martins Point Healthcare Building & Parking

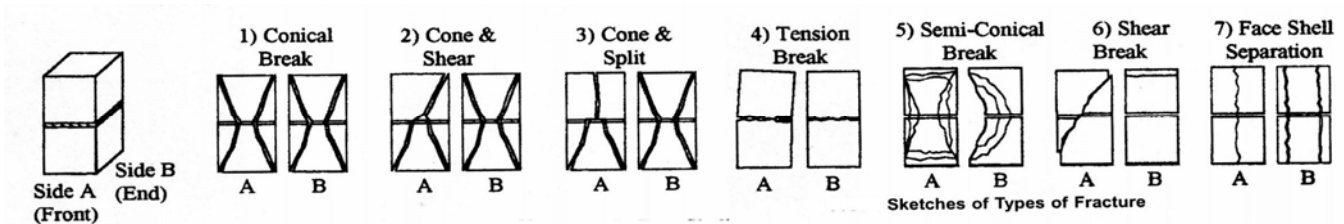
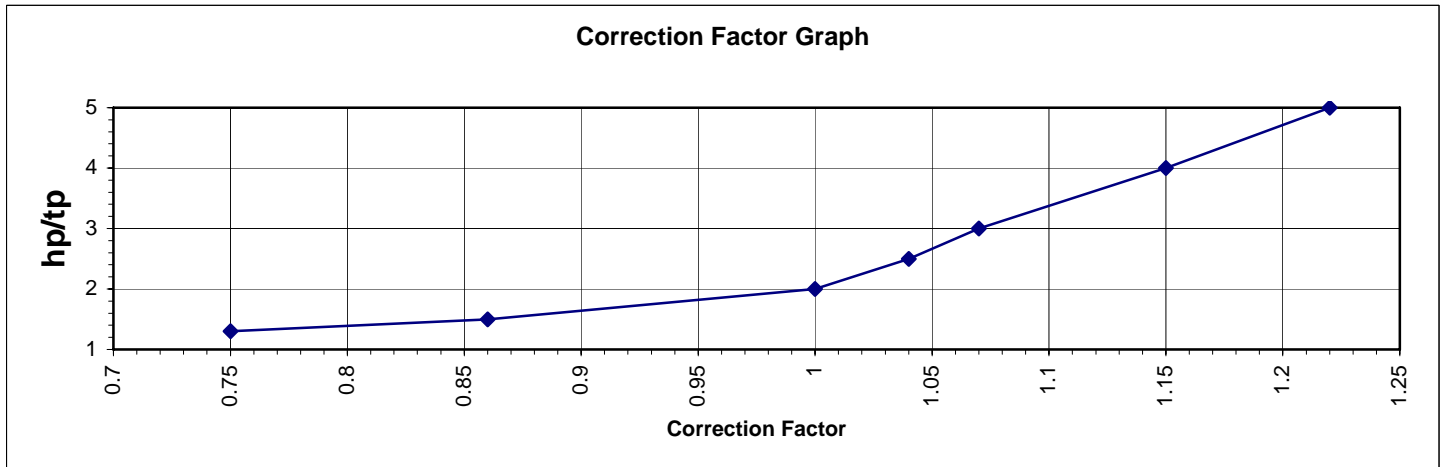
Client: Martins Point Healthcare

Date Specimens Made: 12/29/2009

Block Type: 10" Grouted Half Block

Supplier: Gagne

Lab ID	Spec. Age (Days)	Length (in)	Width (in)	Capped Height (in)	$h_p/t_p$ Ratio	Net Area (in <sup>2</sup> )	Gross Area (in <sup>2</sup> )	Load (kips)	Initial Strength (psi)	Correction Factor	Strength (psi)	Break Type
984-70A	28	9.625	7.625	16.125	1.67	73.39	73.39	172.2	2346	.85	1994	5 B



Remarks:

**Report of Masonry Prism  
Compressive Strength Test  
ASTM C1314**

Project No.: 05-0927.4

Project Name: Martins Point Healthcare Building & Parking

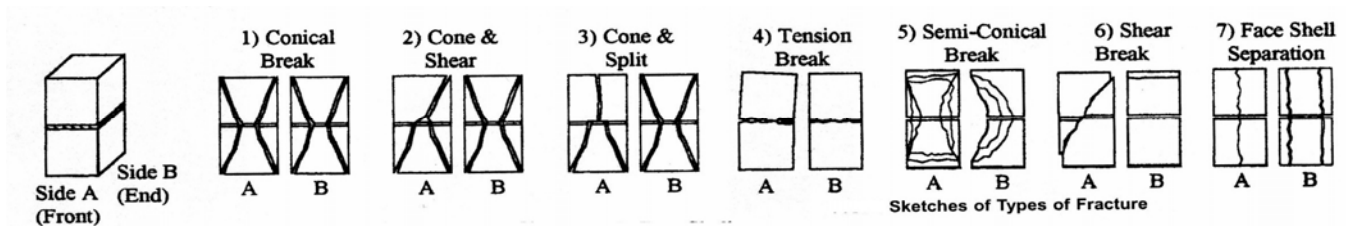
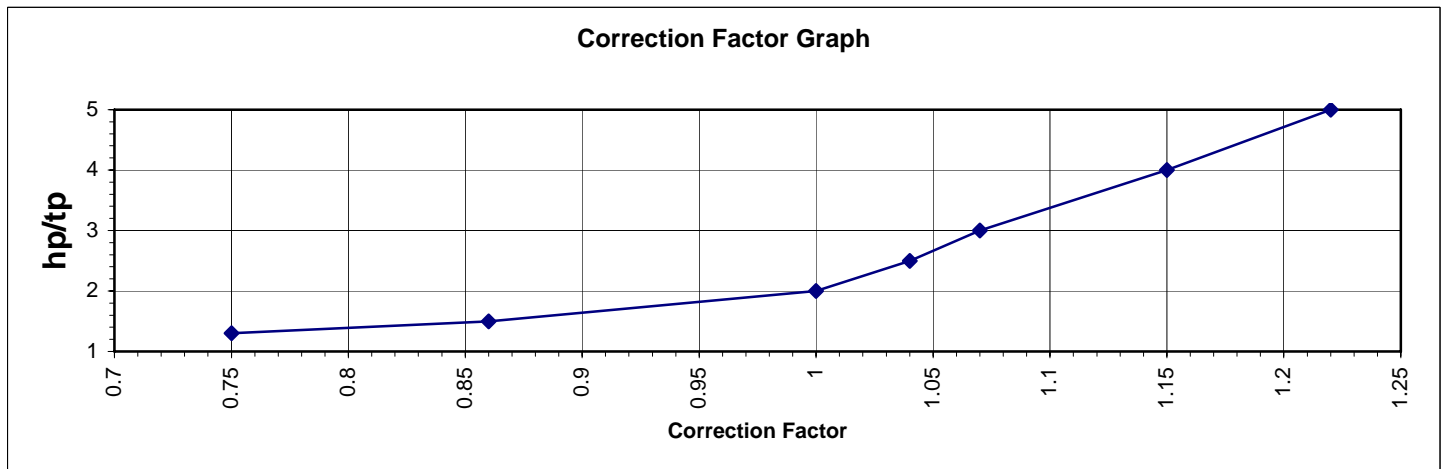
Client: Martins Point Healthcare

Date Specimens Made: 12/29/2009

Block Type: 12" Grouted Half Block

Supplier: Gagne

Lab ID	Spec. Age (Days)	Length (in)	Width (in)	Capped Height (in)	$h_p/t_p$ Ratio	Net Area (in <sup>2</sup> )	Gross Area (in <sup>2</sup> )	Load (kips)	Initial Strength (psi)	Correction Factor	Strength (psi)	Break Type
984-71A	28	11.625	7.625	16	1.38	88.64	88.64	361.1	4074	.75	3055	3 A



Remarks:

**Report of Masonry Prism  
Compressive Strength Test  
ASTM C1314**

Project No.: 05-0927.4

Project Name: Martins Point Healthcare Building & Parking

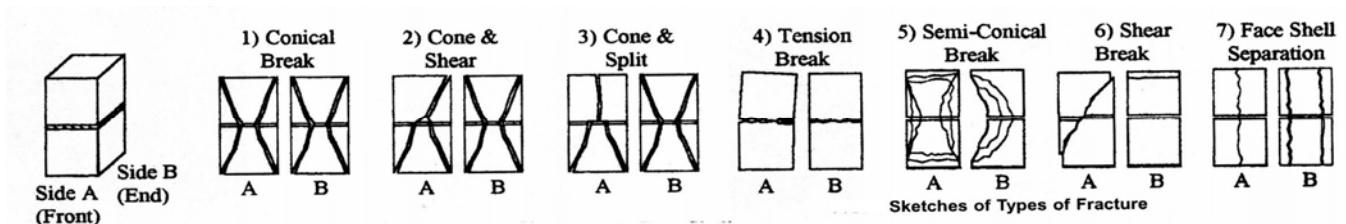
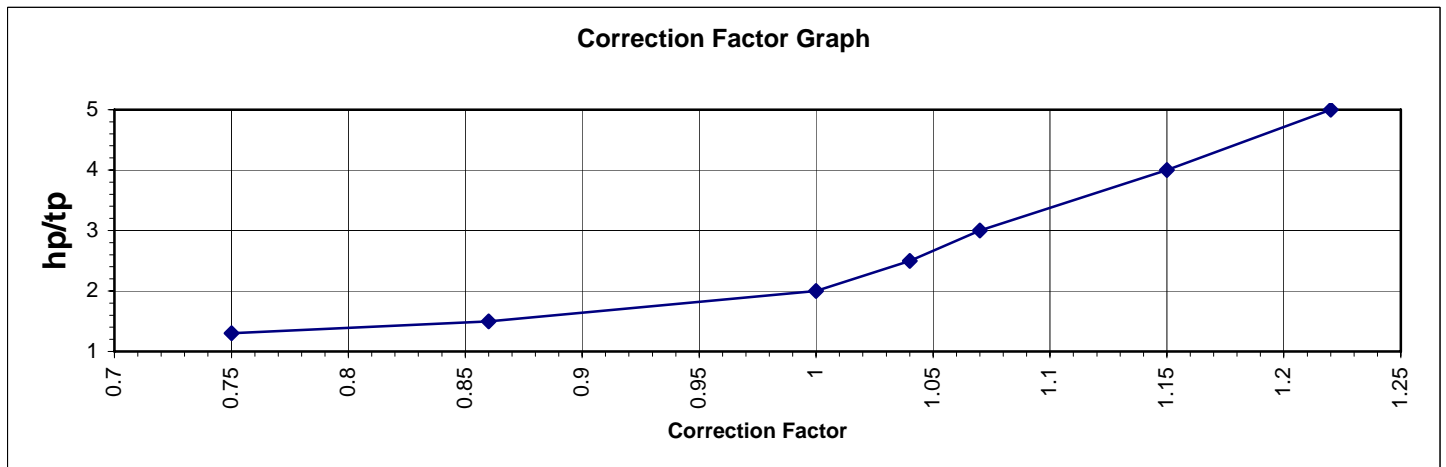
Client: Martins Point Healthcare

Date Specimens Made: 1/5/2010

Block Type: 8" Grouted Half Block

Supplier: Gagne

Lab ID	Spec. Age (Days)	Length (in)	Width (in)	Capped Height (in)	$h_p/t_p$ Ratio	Net Area (in <sup>2</sup> )	Gross Area (in <sup>2</sup> )	Load (kips)	Initial Strength (psi)	Correction Factor	Strength (psi)	Break Type
984-84A	28	7.625	7.625	15.3	2.09	58.14	58.14	130.3	2240	1.0	2240	3A



Remarks:



**Report of Masonry Prism  
Compressive Strength Test  
ASTM C1314**

Project No.: 05-0927.4

Project Name: Martins Point Healthcare Building & Parking

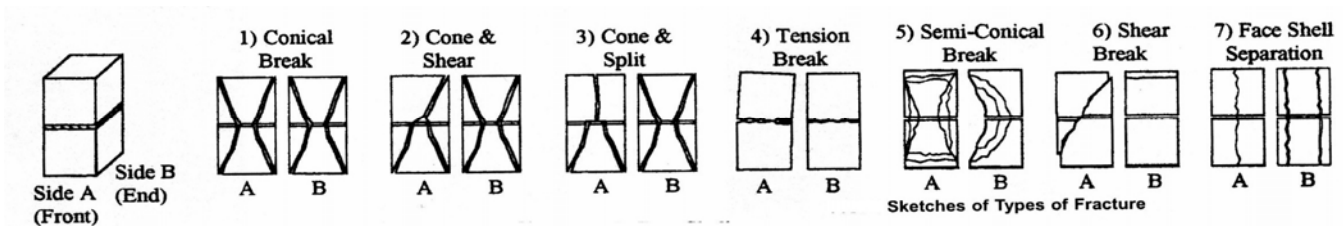
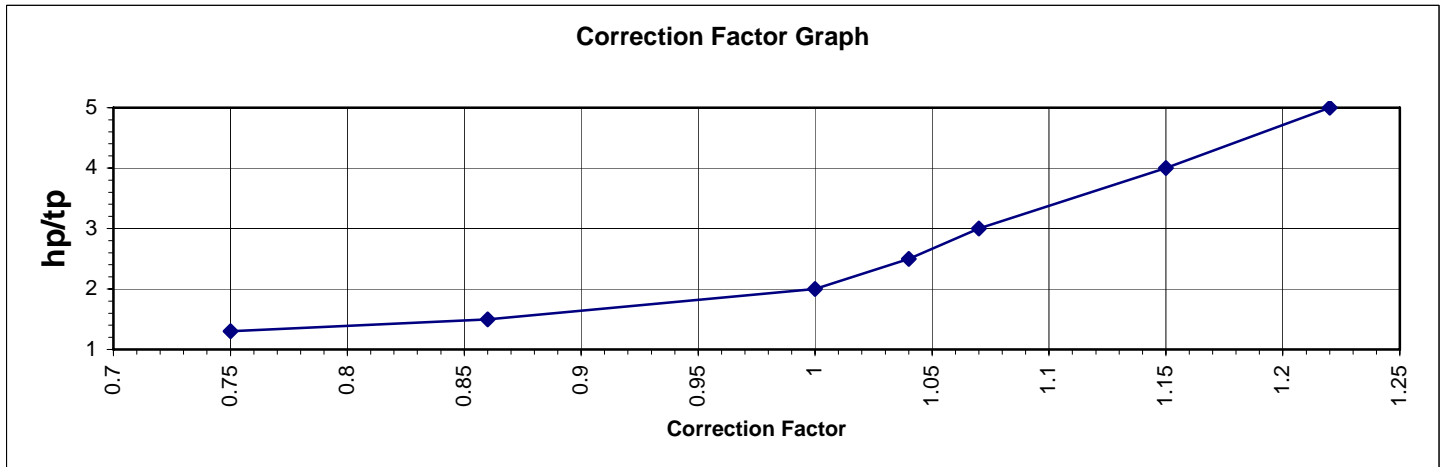
Client: Martins Point Healthcare

Date Specimens Made: 1/5/2010

Block Type: 10" Grouted Half Block

Supplier: Gagne

Lab ID	Spec. Age (Days)	Length (in)	Width (in)	Capped Height (in)	$h_p/t_p$ Ratio	Net Area (in <sup>2</sup> )	Gross Area (in <sup>2</sup> )	Load (kips)	Initial Strength (psi)	Correction Factor	Strength (psi)	Break Type
984-85A	28	9.68	7.68	15.62	2.07	74.47	74.47	132.3	1780	1.0	1780	3A



Remarks:

**Report of Masonry Prism  
Compressive Strength Test  
ASTM C1314**

Project No.: 05-0927.4

Project Name: Martins Point Healthcare Building & Parking

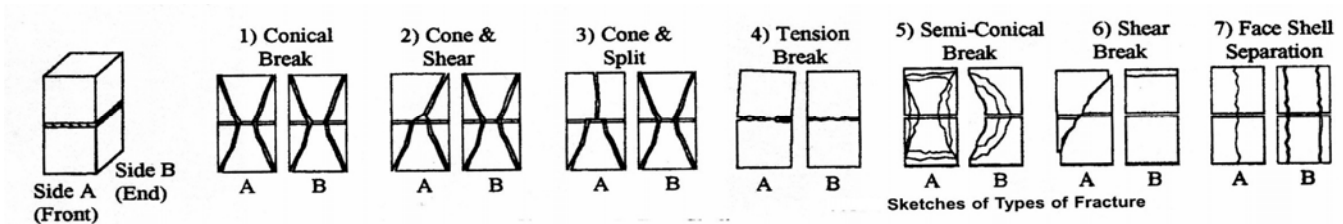
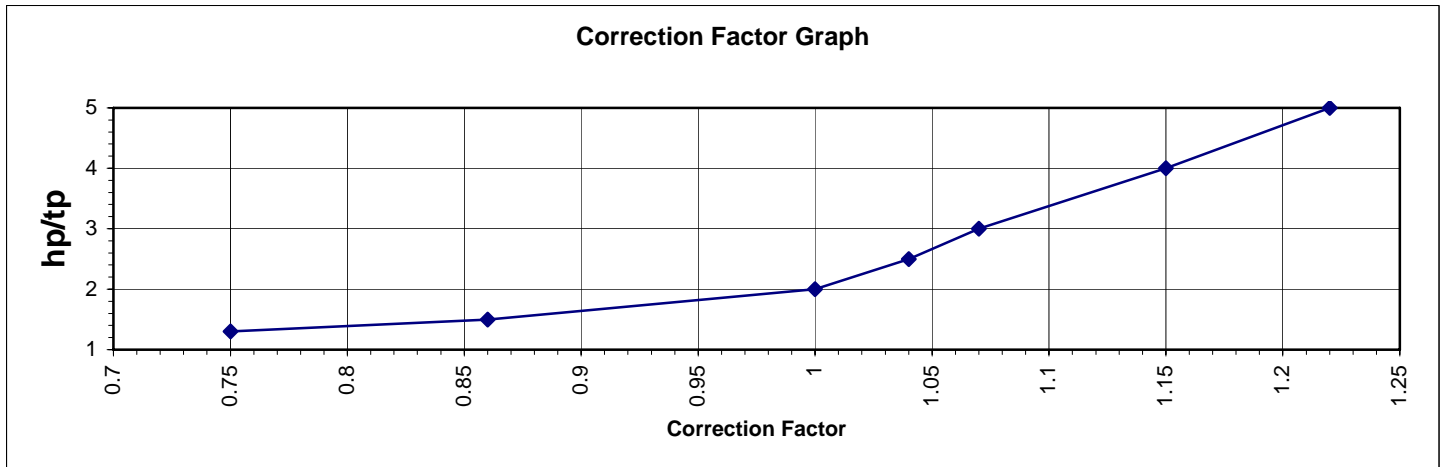
Client: Martins Point Healthcare

Date Specimens Made: 1/5/2010

Block Type: 12" Grouted Half Block

Supplier: Gagne

Lab ID	Spec. Age (Days)	Length (in)	Width (in)	Capped Height (in)	h <sub>p</sub> /t <sub>p</sub> Ratio	Net Area (in <sup>2</sup> )	Gross Area (in <sup>2</sup> )	Load (kips)	Initial Strength (psi)	Correction Factor	Strength (psi)	Break Type
984-86A	28	11.68	11.68	15.62	2.07	89.85	89.85	410.3	4566	1.0	4566	3A



**Remarks:**

P:\2005\05-0927.4 M - Martin's Point Healthcare, Inc - Portland, ME - Martin's Point Healthcare Building & Parking Garage - RED\Lab & Field Tests\Masonry\12in Grouted Half Blocks 2.doc



# Report of Grout Compressive Strength

ASTM C109

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND  
PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General**

**Contractor:**

**Supplier:** BASF

## PLACEMENT INFORMATION

**Date Cast:** 10/29/2009    **Time Cast:** 11:45    **Date Received:** 11/2/2009

**Placement Location:** 6 LINE, C & B - GROUT PACK

**Placement Method:**

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

**Cylinders Made By:** PJO

**Aggregate Size (in):**

## INITIAL CURING CONDITIONS

### Temperatures

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

## DELIVERY INFORMATION

**Admixtures:**

## TEST RESULTS

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

**Batch Number:**

**Air Temp (°F):**

**Mixer Number:**

**Grout Temp (°F) (C-1064):**

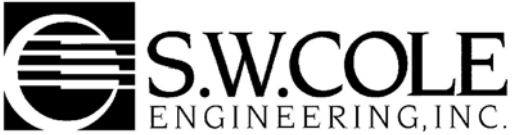
**Ticket Number:**

**Design (psi):**                      **6000**

Cube Designation	Area(In) <sup>2</sup>	Date Of Test	Age (days)	Load (kips)	Strength (psi)
984-55A	4.00	11/30/2009	32	51.0	12750
984-55B	4.00	11/30/2009	32	48.7	12180
984-55C	4.00	11/30/2009	32	46.3	11580

Remarks: Due to the holiday testing was moved to Monday 11-30-09





# Report of Mortar Compressive Strength

ASTM C109

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Supplier:** BASF

## PLACEMENT INFORMATION

**Date Cast:** 10/29/2009    **Time Cast:** 12:00    **Date Received:** 11/2/2009

**Placement Location:** STAIR TOWER - SPLICE GROUT

**Placement Method:**

**Placement Vol. (yd³):**

**Cylinders Made By:** PJO

**Aggregate Size (in):**

## INITIAL CURING CONDITIONS

### Temperatures

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

## DELIVERY INFORMATION

**Admixtures:**

## TEST RESULTS

**Air Temp (°F):** 50

**Batch Number:**

**Mortar Temp (°F) (C-1064)** 57

**Mixer Number:**

**Ticket Number:**

**Design (psi):** 11000

Cube Designation	Area(In) <sup>2</sup>	Date Of Test	Age (days)	Load (kips)	Strength (psi)
984-56A	4.00	11/30/2009	32	54.0	13500
984-56B	4.00	11/30/2009	32	46.8	11700
984-56C	4.00	11/30/2009	32	49.5	12380

Remarks: Due to the holiday testing was moved to Monday 11-30-09



# Report of Grout Compressive Strength

ASTM C109

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General**

**Contractor:**

**Supplier:** QUICKCRETE

## PLACEMENT INFORMATION

**Date Cast:** 11/2/2009 **Time Cast:** 1:40

**Date Received:** 11/4/2009

**Placement Location:** N + B STAIR TOWER "B"

**Placement Method:** PUMP

**Placement Vol. (yd³):**

**Cylinders Made By:** VLT

**Aggregate Size (in):** SAND

## INITIAL CURING CONDITIONS

### Temperatures

**Minimum (°F)**

**Maximum (°F)**

## DELIVERY INFORMATION

**Admixtures:** N/A

## TEST RESULTS

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

**Batch Number:** 1

**Air Temp (°F):** 52

**Mixer Number:**

**Grout Temp (°F) (C-1064):** 59

**Ticket Number:**

**Design (psi):** 11000

Cube Designation	Area(In)²	Date Of Test	Age (days)	Load (kips)	Strength (psi)
984-57A	4.00	11/9/2009	7	46.7	11680
984-57B	4.00	11/9/2009	7	46.9	11720
984-57C	4.00	11/9/2009	7	36.3	9080
984-57D		11/30/2009	28		
984-57E		11/30/2009	28		
984-57F		11/30/2009	28		

Remarks: DESIGN STRENGTH FOR 28 DAYS



# Report of Grout Specimen Compressive Strength

ASTM C1019

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General**

**Contractor:**

**Supplier:** F. R. CARROLL

## PLACEMENT INFORMATION

**Date Cast:** 12/14/2009 **Time Cast:** 10:40

**Date Received:** 12/16/2009

**Placement Location:** 18TH COURSE - LINE A, 7 TO 13  
LINE 13, A TO C

**Placement Method:** PUMP\*

**Placement Vol. (yd<sup>3</sup>):** 25

**Cylinders Made By:** VLT

**Aggregate Size (in):** 3/8

## INITIAL CURING CONDITIONS

### Temperatures

**Minimum (°F)**

**Maximum (°F)**

## DELIVERY INFORMATION

**Admixtures:** HOT WATER

## TEST RESULTS

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

**Batch Number:** 1

**Air Temp (°F):** 64

**Mixer Number:** 16

**Grout Temp (°F) (C-1064):** 68

**Ticket Number:** 0023546

**Design (psi):** 3000

Specimen Designation	Area(In) <sup>2</sup>	Date Of Test	Age (days)	Load (kips)	Strength (psi)
984-61A	10.97	12/21/2009	7	46.5	4240
984-61B	10.56	1/11/2010	28	57.7	5460
984-61C	10.56	1/11/2010	28	57.4	5430
984-61D					

Remarks: \* MAINE MASONRY



# Report of Mortar Compressive Strength

ASTM C109

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Supplier:** QUICKCRETE

## PLACEMENT INFORMATION

**Date Cast:** 12/16/2009      **Time Cast:** 1:50      **Date Received:** 12/17/2009

**Placement Location:** LINE 13, A TO C 13' ELEV 20TH COURSE

**Placement Method:** BY HAND

**Placement Vol. (yd³):**

**Cylinders Made By:** VLT

**Aggregate Size (in):** SAND

## INITIAL CURING CONDITIONS

### Temperatures

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

## DELIVERY INFORMATION

**Admixtures:** NA

## TEST RESULTS

**Air Temp (°F):** 60

**Batch Number:** 1

**Mortar Temp (°F) (C-1064)** 48

**Mixer Number:**

**Ticket Number:**

**Design (psi):** 1800

Cube Designation	Area(In)²	Date Of Test	Age (days)	Load (kips)	Strength (psi)
984-62A	4.00	12/23/2009	7	3.5	880
984-62B	4.00	12/23/2009	7	3.4	840
984-62C	4.00	12/23/2009	7	3.5	880
984-62D		1/13/2010	28		
984-62E		1/13/2010	28		
984-62F		1/13/2010	28		

Remarks:



**Report of Grout Specimen Compressive Strength**

ASTM C1019

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Supplier:** F. R. CARROLL

**PLACEMENT INFORMATION**

**Date Cast:** 12/29/2009     **Time Cast:** 9:15     **Date Received:** 1/5/2010  
**Placement Location:** A LINE 2 - 7 LINE AT 100' LOW LIFT GROUT APPROX. 4' OR 4 COURSES 1 LINE BETWEEN B-D AT ELEVATION 87.8'  
**Placement Method:** PUMP WAGON     **Placement Vol. (yd³):** 12  
**Cylinders Made By:** TA     **Aggregate Size (in):** 3/8

**INITIAL CURING CONDITIONS**

**Temperatures**

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

**DELIVERY INFORMATION**

**Admixtures:** NA

**TEST RESULTS**

**Slump (in) (C-143):**  
**Air Temp (°F):** 11     **Batch Number:**  
**Grout Temp (°F) (C-1064):** 71     **Mixer Number:** 5  
**Ticket Number:** 0021083  
**Design (psi):** 3000

Specimen Designation	Area(In) <sup>2</sup>	Date Of Test	Age (days)	Load (kips)	Strength (psi)
984-72A	10.97	1/5/2010	7	31.9	2910
984-72B	10.97	1/26/2010	28	68.4	6240
984-72C	10.97	1/26/2010	28	67.8	6180
984-72D					

Remarks: COARSE GROUT



# Report of Mortar Compressive Strength

ASTM C109

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Supplier:** QUICKCRETE

## PLACEMENT INFORMATION

**Date Cast:** 1/7/2010 **Time Cast:** 8:38

**Date Received:** 1/8/2010

**Placement Location:** INT LINE A - 10 ELEV. 108+/-

**Placement Method:** BY HAND

**Placement Vol. (yd³):**

**Cylinders Made By:** VLT

**Aggregate Size (in):** SAND

## INITIAL CURING CONDITIONS

### Temperatures

**Minimum (°F)** **Maximum (°F)**

## DELIVERY INFORMATION

**Admixtures:** WATER

## TEST RESULTS

**Air Temp (°F):** 31

**Batch Number:** 1

**Mortar Temp (°F) (C-1064)** 42

**Mixer Number:**

**Ticket Number:**

**Design (psi):** 1800

Cube Designation	Area(In)²	Date Of Test	Age (days)	Load (kips)	Strength (psi)
984-80A	4.00	1/14/2010	7	7.2	1800
984-80B	4.00	1/14/2010	7	6.5	1620
984-80C	4.00	1/14/2010	7	6.1	1520
984-80D	4.00	2/4/2010	28	8.2	2050
984-80E	4.00	2/4/2010	28	8.1	2020
984-80F	4.00	2/4/2010	28	7.0	1750

Remarks:



# Report of Grout Specimen Compressive Strength

ASTM C1019

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Supplier:** F. R. CARROLL

## PLACEMENT INFORMATION

<b>Date Cast:</b>	1/8/2010	<b>Time Cast:</b>	11:19	<b>Date Received:</b>	1/11/2010
<b>Placement Location:</b>	LINE 13, A TO B ELEV. 115+/- LINE A, 13 TO 9 ELEV. 115+/-				
<b>Placement Method:</b>	PUMP				
<b>Cylinders Made By:</b>	VLT				
		<b>Placement Vol. (yd³):</b>	10		
		<b>Aggregate Size (in):</b>	3/8		

## INITIAL CURING CONDITIONS

### Temperatures

<b>Minimum (°F)</b>	<b>Maximum (°F)</b>
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## DELIVERY INFORMATION

**Admixtures:** NA

## TEST RESULTS

<b>Slump (in) (C-143):</b>		<b>Batch Number:</b>	1
<b>Air Temp (°F):</b>	20	<b>Mixer Number:</b>	14
<b>Grout Temp (°F) (C-1064):</b>	76	<b>Ticket Number:</b>	0021126
		<b>Design (psi):</b>	3000

Specimen Designation	Area(In) <sup>2</sup>	Date Of Test	Age (days)	Load (kips)	Strength (psi)
984-81A	11.39	1/15/2010	7	37.1	3260
984-81B	10.56	2/5/2010	28	37.4	3540
984-81C	10.97	2/5/2010	28	44.6	4070
984-81D					

Remarks:



# Report of Grout Specimen Compressive Strength

ASTM C1019

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Supplier:** F. R. CARROLL

## PLACEMENT INFORMATION

**Date Cast:** 1/12/2010      **Time Cast:** 12:01      **Date Received:** 1/14/2010

**Placement Location:** LINE A, 8.4 TO 7 118' ELEVATION  
LINE A, 5 TO 3 12' LIFT

**Placement Method:** PUMP      **Placement Vol. (yd³):** 8

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

## INITIAL CURING CONDITIONS

### Temperatures

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

## DELIVERY INFORMATION

**Admixtures:** HOT WATER

## TEST RESULTS

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

**Air Temp (°F):** 25

**Grout Temp (°F) (C-1064):** 72

**Batch Number:** 1

**Mixer Number:** 5

**Ticket Number:** 0021140

**Design (psi):** 3000

Specimen Designation	Area(In)²	Date Of Test	Age (days)	Load (kips)	Strength (psi)
984-82A	12.25	1/19/2010	7	45.9	3750
984-82B	10.97	2/9/2010	28	64.6	5890
984-82C	10.97	2/9/2010	28	62.4	5690
984-82D					

Remarks:





# Report of Grout Specimen Compressive Strength

ASTM C1019

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General**

**Contractor:**

**Supplier:** F. R. CARROLL

## PLACEMENT INFORMATION

**Date Cast:** 1/13/2010      **Time Cast:** 10:50      **Date Received:**

**Placement Location:** CMU REINFORCED CELLS 13 LINE A TO C POUR #6 TO ELEV 115' 4" A LINE 9.5 TO 13 POUR #6 TO ELEV 115.4"

**Placement Method:** GROUT PUMP      **Placement Vol. (yd³):** 6

**Cylinders Made By:** DAC      **Aggregate Size (in):** 3/8

## INITIAL CURING CONDITIONS

### Temperatures

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

## DELIVERY INFORMATION

**Admixtures:**

## TEST RESULTS

**Slump (in) (C-143):** 10.25

**Air Temp (°F):** 20

**Grout Temp (°F) (C-1064):** 62

**Batch Number:** 1

**Mixer Number:** 5

**Ticket Number:** 21147

**Design (psi):** 3000

Specimen Designation	Area(In) <sup>2</sup>	Date Of Test	Age (days)	Load (kips)	Strength (psi)
984-83A	11.39	1/20/2010	7	32.0	2810
984-83B	11.81	2/10/2010	28	58.9	4990
984-83C	10.97	2/10/2010	28	64.5	5880
984-83D					

Remarks:



# Report of Mortar Compressive Strength

ASTM C109

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Supplier:** QUICKCRETE

## PLACEMENT INFORMATION

**Date Cast:** 1/14/2010      **Time Cast:** 8:47      **Date Received:** 1/15/2010

**Placement Location:** LINE 13, A TO B ELEV 95+/-

**Placement Method:** BY HAND

**Placement Vol. (yd³):**

**Cylinders Made By:** VLT

**Aggregate Size (in):** SAND

## INITIAL CURING CONDITIONS

### Temperatures

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

## DELIVERY INFORMATION

**Admixtures:** WATER

## TEST RESULTS

**Air Temp (°F):** 54

**Batch Number:**

**Mortar Temp (°F) (C-1064)** 40

**Mixer Number:**

**Ticket Number:**

**Design (psi):** 1800

Cube Designation	Area(In)²	Date Of Test	Age (days)	Load (kips)	Strength (psi)
984-89A	4.00	1/21/2010	7		
984-89B	4.00	1/21/2010	7	6.1	1520
984-89C	4.00	1/21/2010	7	5.5	1380
984-89D	4.00	2/11/2010	28	8.5	2120
984-89E	4.00	2/11/2010	28	7.3	1820
984-89F	4.00	2/11/2010	28	7.8	1950

Remarks: 984-89A Damaged 1-21-2010



# Report of Grout Specimen Compressive Strength

ASTM C1019

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Supplier:** F. R. CARROLL

## PLACEMENT INFORMATION

**Date Cast:** 1/14/2010      **Time Cast:** 10:56      **Date Received:** 1/15/2010

**Placement Location:** LINE 1, A TO B.5 95+/- 5' 4" LIFT

**Placement Method:** PUMP

**Placement Vol. (yd³):** 7

**Cylinders Made By:** VLT

**Aggregate Size (in):** 3/8

## INITIAL CURING CONDITIONS

### Temperatures

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

## DELIVERY INFORMATION

**Admixtures:** NA

## TEST RESULTS

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

**Batch Number:** 1

**Air Temp (°F):** 12

**Mixer Number:** 5

**Grout Temp (°F) (C-1064):** 67

**Ticket Number:** 0021155

**Design (psi):** 3000

Specimen Designation	Area(In) <sup>2</sup>	Date Of Test	Age (days)	Load (kips)	Strength (psi)
984-90A	11.39	1/21/2010	7	35.7	3130
984-90B	10.56	2/11/2010	28	58.1	5500
984-90C	10.56	2/11/2010	28	55.0	5210
984-90D					

Remarks:



# Report of Grout Specimen Compressive Strength

ASTM C1019

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General**

**Contractor:**

**Supplier:** F. R. CARROLL

## PLACEMENT INFORMATION

**Date Cast:** 1/15/2010      **Time Cast:** 9:04

**Date Received:**

**Placement Location:** LINE 13, B TO D ELEV 100 +/-

**Placement Method:** PUMP

**Placement Vol. (yd³):** 5

**Cylinders Made By:** VLT

**Aggregate Size (in):** 3/8

## INITIAL CURING CONDITIONS

### Temperatures

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

## DELIVERY INFORMATION

**Admixtures:** NA

## TEST RESULTS

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

**Batch Number:** 1

**Air Temp (°F):** 35

**Mixer Number:** 13

**Grout Temp (°F) (C-1064):** 67

**Ticket Number:** 0021163

**Design (psi):** 3000

Specimen Designation	Area(In)²	Date Of Test	Age (days)	Load (kips)	Strength (psi)
984-91A	11.39	1/22/2010	7	32.8	2880
984-91B	10.97	2/12/2010	28	52.4	4780
984-91C	11.18	2/12/2010	28	47.2	4220
984-91D					

Remarks:



# Report of Mortar Compressive Strength

ASTM C109

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Supplier:** MIXED ON-SITE

## PLACEMENT INFORMATION

**Date Cast:** 1/6/2010      **Time Cast:**      **Date Received:** 1/14/2010

**Placement Location:** COLUMN LINE A BETWEEN LINES 2-8 @ ELEVATION 108

**Placement Method:** TROWEL

**Placement Vol. (yd³):** 5

**Cylinders Made By:** TA

**Aggregate Size (in):** SAND

## INITIAL CURING CONDITIONS

### Temperatures

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

## DELIVERY INFORMATION

**Admixtures:**

## TEST RESULTS

**Air Temp (°F):** 21

**Batch Number:** 1

**Mortar Temp (°F) (C-1064)** 53

**Mixer Number:**

**Ticket Number:**

**Design (psi):** 1800

Cube Designation	Area(In) <sup>2</sup>	Date Of Test	Age (days)	Load (kips)	Strength (psi)
984-92A	4.00	1/15/2010	9	2.8	700
984-92B	4.00	1/15/2010	9	3.2	800
984-92C	4.00	1/15/2010	9	3.4	850
984-92D	4.00	2/3/2010	28	5.9	1480
984-92E	4.00	2/3/2010	28	5.8	1450
984-92F	4.00	2/3/2010	28	6.5	1620

Remarks:



**Report of Grout Specimen Compressive Strength**

ASTM C1019

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Supplier:** F. R. CARROLL

**PLACEMENT INFORMATION**

**Date Cast:** 1/6/2010      **Time Cast:** 10:00      **Date Received:** 1/14/2010

**Placement Location:** COLUMN LINE 13 BETWEEN LINE C-D AND LINE A BETWEEN LINES 8-13 @ ELEV 108

**Placement Method:** PUMP WAGON

**Placement Vol. (yd³):** 10

**Cylinders Made By:** TA

**Aggregate Size (in):** COURSE GROUT

**INITIAL CURING CONDITIONS**

**Temperatures**

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

**DELIVERY INFORMATION**

**Admixtures:**

**TEST RESULTS**

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

**Batch Number:** 1

**Air Temp (°F):** 22

**Mixer Number:** 8

**Grout Temp (°F) (C-1064):** 68

**Ticket Number:** 0021114

**Design (psi):** 3000

Specimen Designation	Area(In) <sup>2</sup>	Date Of Test	Age (days)	Load (kips)	Strength (psi)
984-93A	11.39	1/15/2010	9	35.2	3090
984-93B	11.39	2/3/2010	28	54.0	4740
984-93C	11.81	2/3/2010	28	57.3	4850
984-93D					

Remarks:



**Report of Grout Specimen Compressive Strength**

ASTM C1019

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General**

**Contractor:**

**Supplier:** F. R. CARROLL

**PLACEMENT INFORMATION**

**Date Cast:** 1/21/2010      **Time Cast:** 10:24      **Date Received:** 1/25/2010

**Placement Location:** LINE 1, C TO D 110+/-  
LINE D, 1 TO 3 113+/-

**Placement Method:** PUMP

**Placement Vol. (yd³):** 8

**Cylinders Made By:** VLT

**Aggregate Size (in):** 3/8

**INITIAL CURING CONDITIONS**

**Temperatures**

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

**DELIVERY INFORMATION**

**Admixtures:** NA

**TEST RESULTS**

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

**Batch Number:** 1

**Air Temp (°F):** 34

**Mixer Number:** 13

**Grout Temp (°F) (C-1064):** 71

**Ticket Number:** 0021192

**Design (psi):** 3000

Specimen Designation	Area(In)²	Date Of Test	Age (days)	Load (kips)	Strength (psi)
984-96A	10.97	1/28/2010	7	26.9	2450
984-96B	10.97	2/18/2010	28	60.4	5510
984-96C	10.97	2/18/2010	28	56.9	5190
984-96D					

Remarks:



# Report of Grout Specimen Compressive Strength

ASTM C1019

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General**

**Contractor:**

**Supplier:** F. R. CARROLL

## PLACEMENT INFORMATION

**Date Cast:** 1/28/2010      **Time Cast:** 11:39      **Date Received:** 2/1/2010

**Placement Location:** LINE D, 1 TO 2, 3.5 TO 4.5 ELEV. 118+/-  
LINE A, 1 TO 2 ELEV. 100'

**Placement Method:** PUMP\*

**Placement Vol. (yd³):** 8

**Cylinders Made By:** VLT

**Aggregate Size (in):** 3/8

## INITIAL CURING CONDITIONS

### Temperatures

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

## DELIVERY INFORMATION

**Admixtures:** N/A

## TEST RESULTS

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

**Batch Number:** 1

**Air Temp (°F):** 35

**Mixer Number:** 14

**Grout Temp (°F) (C-1064):** 78

**Ticket Number:** 0021223

**Design (psi):** 3000

Specimen Designation	Area(In)²	Date Of Test	Age (days)	Load (kips)	Strength (psi)
984-97A	11.81	2/4/2010	7	40.5	3430
984-97B	11.39	2/25/2010	28	47.4	4160
984-97C	10.56	2/25/2010	28	50.7	4800
984-97D					

Remarks: \*MAINE MASONRY - GROUT PUMP





# Report of Mortar Compressive Strength

ASTM C109

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General**

**Contractor:**

**Supplier:** QUICKCRETE

## PLACEMENT INFORMATION

**Date Cast:** 1/28/2010      **Time Cast:** 11:15      **Date Received:** 2/1/2010

**Placement Location:** LINE D, 1 TO 2 ELEV. 100+/-

**Placement Method:** BY HAND

**Placement Vol. (yd³):**

**Cylinders Made By:** VLT

**Aggregate Size (in):** SAND

## INITIAL CURING CONDITIONS

### Temperatures

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

## DELIVERY INFORMATION

**Admixtures:** N/A

## TEST RESULTS

**Air Temp (°F):** 44

**Batch Number:** 1

**Mortar Temp (°F) (C-1064)** 46

**Mixer Number:**

**Ticket Number:**

**Design (psi):** 1800

Cube Designation	Area(In) <sup>2</sup>	Date Of Test	Age (days)	Load (kips)	Strength (psi)
984-98A	4.00	2/4/2010	7	4.4	1100
984-98B	4.00	2/4/2010	7	5.1	1280
984-98C	4.00	2/4/2010	7	4.8	1200
984-98D	4.00	2/25/2010	28	5.7	1420
984-98E	4.00	2/25/2010	28	5.0	1250
984-98F	4.00	2/25/2010	28	4.9	1220

Remarks:



# Report of Grout Specimen Compressive Strength

ASTM C1019

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General**

**Contractor:**

**Supplier:** F. R. CARROLL

## PLACEMENT INFORMATION

**Date Cast:** 2/2/2010      **Time Cast:**      **Date Received:** 2/5/2010

**Placement Location:** ALONG COLUMN LINE 1 BETWEEN LINES C & D @ AN ELEVATION OF 114: ABOVE TOP OF FOUNDATION WALL

**Placement Method:** PUMP\*      **Placement Vol. (yd³):**

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

\* Test Cylinders Not Made By S. W. Cole Personnel

## INITIAL CURING CONDITIONS

### Temperatures

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

## DELIVERY INFORMATION

**Admixtures:** N/A

## TEST RESULTS

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

**Batch Number:**

**Air Temp (°F):**

**Mixer Number:**

**Grout Temp (°F) (C-1064):**

**Ticket Number:**

**Design (psi):** 3000

Specimen Designation	Area(In)²	Date Of Test	Age (days)	Load (kips)	Strength (psi)
984-99A	10.97	2/9/2010	7	34.7	3160
984-99B	10.56	3/2/2010	28	37.5	3550
984-99C	10.56	3/2/2010	28	39.8	3770
984-99D		3/30/2010	56		

Remarks: \*MAINE MASONRY



# Report of Grout Specimen Compressive Strength

ASTM C1019

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General**

**Contractor:**

**Supplier:** F. R. CARROLL

## PLACEMENT INFORMATION

**Date Cast:** 2/5/2010      **Time Cast:** 12:15      **Date Received:** 2/8/2010

**Placement Location:** LINE D, 9.5 TO 13. ELEVATION 103+/-

**Placement Method:** PUMP

**Placement Vol. (yd³):** 4

**Cylinders Made By:** VLT

**Aggregate Size (in):** 3/8

## INITIAL CURING CONDITIONS

### Temperatures

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

## DELIVERY INFORMATION

**Admixtures:** N/A

## TEST RESULTS

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

**Batch Number:** 1

**Air Temp (°F):** 28

**Mixer Number:** 6

**Grout Temp (°F) (C-1064):** 66

**Ticket Number:** 0021261

**Design (psi):** 3000

Specimen Designation	Area(In)²	Date Of Test	Age (days)	Load (kips)	Strength (psi)
984-100A	10.97	2/12/2010	7	48.2	4390
984-100B	10.56	3/5/2010	28	60.5	5730
984-100C	10.97	3/5/2010	28	57.4	5230
984-100D					

Remarks:



**Report of Grout Specimen Compressive Strength**

ASTM C1019

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Supplier:** F. R. CARROLL

**PLACEMENT INFORMATION**

**Date Cast:** 2/11/2010      **Time Cast:** 11:24      **Date Received:** 2/15/2010

**Placement Location:** BOND NEAM LINE D, 9.5 TO 4 ELEV. 103+/-

**Placement Method:** PUMP\*

**Placement Vol. (yd³):** 4

**Cylinders Made By:** VLT

**Aggregate Size (in):** 3/8

**INITIAL CURING CONDITIONS**

**Temperatures**

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

**DELIVERY INFORMATION**

**Admixtures:** N/A

**TEST RESULTS**

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

**Batch Number:** 1

**Air Temp (°F):** 30

**Mixer Number:** 16

**Grout Temp (°F) (C-1064):** 67

**Ticket Number:** 0021293

**Design (psi):** 3000

Specimen Designation	Area(In)²	Date Of Test	Age (days)	Load (kips)	Strength (psi)
984-101A	10.97	2/18/2010	7	30.0	2740
984-101B	12.25	3/11/2010	28	57.6	4700
984-101C	12.25	3/11/2010	28	53.8	4390
984-101D					

Remarks: \* MAINE MASONRY



**Report of Grout Specimen Compressive Strength**

ASTM C1019

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General Contractor:**

**Supplier:** F. R. CARROLL

**PLACEMENT INFORMATION**

**Date Cast:** 2/15/2010      **Time Cast:** 1:19      **Date Received:** 2/17/2010

**Placement Location:** LINE 1, B TO D ELEV. 115.4    LINE A, 1 TO 2 ELEV. 103'

**Placement Method:** PUMP\*

**Placement Vol. (yd³):** 8

**Cylinders Made By:** VLT

**Aggregate Size (in):** 3/8

**INITIAL CURING CONDITIONS**

**Temperatures**

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

**DELIVERY INFORMATION**

**Admixtures:** N/A

**TEST RESULTS**

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

**Batch Number:** 1

**Air Temp (°F):** 32

**Mixer Number:** 14

**Grout Temp (°F) (C-1064):** 72

**Ticket Number:** 0021307

**Design (psi):** 3000

Specimen Designation	Area(In)²	Date Of Test	Age (days)	Load (kips)	Strength (psi)
984-102A	10.97	2/22/2010	7	42.4	3870
984-102B	10.97	3/15/2010	28	59.6	5430
984-102C	10.97	3/15/2010	28	64.6	5890
984-102D					

Remarks: \* MAINE MASONRY



**Report of Grout Specimen Compressive Strength**

ASTM C1019

**Project Name:** PORTLAND ME - MEDICAL OFFICE BUILDING AND PARKING GARAGE - MATERIALS TESTING AND SPECIAL

**Project Number:** 05-0927.4

**Client:** MARTIN'S POINT HEALTHCARE

**Client Contract Number:**

**General**

**Contractor:**

**Supplier:** F. R. CARROLL

**PLACEMENT INFORMATION**

**Date Cast:** 3/10/2010      **Time Cast:** 13:54      **Date Received:** 3/12/2010

**Placement Location:** CMU REINFORCED CELLS & BOND BEAMS D LINE/5.5 TO 8.4' LINES ELEV. 114' TO 129' PARAPETS

**Placement Method:** GROUT PUMP      **Placement Vol. (yd³):** 7

**Cylinders Made By:** DAC      **Aggregate Size (in):** 3/8

**INITIAL CURING CONDITIONS**

**Temperatures**

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

**DELIVERY INFORMATION**

**Admixtures:**

**TEST RESULTS**

**Slump (in) (C-143):** 9.75

**Air Temp (°F):** 44

**Grout Temp (°F) (C-1064):** 66

**Batch Number:** 1

**Mixer Number:** 11

**Ticket Number:** 21389

**Design (psi):** 3000

Specimen Designation	Area(In)²	Date Of Test	Age (days)	Load (kips)	Strength (psi)
984-103A	10.97	3/17/2010	7	51.8	4720
984-103B	10.97	4/7/2010	28	58.3	5310
984-103C	11.39	4/7/2010	28	62.5	5490
984-103D					

Remarks:

**Tab 12**

**MATTHEW J. MILLER, P.E.**

STRUCTURAL ENGINEERING CONSULTANT

23 THORNBURY WAY  
WINDHAM, ME 04062  
207.232.2258**SPECIAL INSPECTIONS OF  
STRUCTURAL STEEL****Report No. 5-001**Project No.: 09012Date: 11/13/09Project Name: Martin's Point MOB Special InspectionsTime: 10:00 am to 11:30 amWeather: Mostly Cloudy, Low 40'sPresent at Site: Tim Street (Pizzagalli), Matthew MillerLocation(s) of Inspection: Third Level Framing Lines A to C between Lines 8 and 13

Item:	General Conformance	Non Conformance	Corrected while on site	Not Completed	N/A
1. Contractor using accepted shop drawings.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Materials comply with accepted material certificates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Anchor rod size, spacing, column base plate details.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Beam and Column size and spacing.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Beam to beam and beam to column details.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Column and beam splice details.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Installation of lateral bracing / moment connections.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Installation of bar joist framing and connections.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9. Installation of bar joist bridging and anchorage.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10. Installation of relieving angles.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11. Framing alignment, plumbness, levelness, or slope.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. Holes, cut flanges, etc. that have not been reviewed and accepted by the SER.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13. Metal floor and roof deck. (Gage, profile, alignment fastening.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
14. Shear connections: size, quantity, weld quality, ferrules removed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15. Inspection/testing agency inspections been performed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16. Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Is reinspection required? Yes  No

**Comments:** Special inspections of Structural Steel is ongoing.**Inspected By:** Matthew J. Miller, P.E.



**MATTHEW J. MILLER, P.E.**

STRUCTURAL ENGINEERING CONSULTANT

23 THORNBURY WAY  
WINDHAM, ME 04062  
207.232.2258**SPECIAL INSPECTIONS OF  
STRUCTURAL STEEL****Report No. 5-002**Project No.: 09012Date: 11/19/09Project Name: Martin's Point MOB Special InspectionsTime: 10:15-11:15Weather: Sunny, Mid 40'sPresent at Site: Tim Street (Pizzagalli), Matthew MillerLocation(s) of Inspection: Third Level Framing Lines A to C between Lines 4 and I3

Item:	General Conformance	Non Conformance	Corrected while on site	Not Completed	N/A
1. Contractor using accepted shop drawings.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Materials comply with accepted material certificates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Anchor rod size, spacing, column base plate details.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Beam and Column size and spacing.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Beam to beam and beam to column details.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Column and beam splice details.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Installation of lateral bracing / moment connections.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Installation of bar joist framing and connections.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9. Installation of bar joist bridging and anchorage.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10. Installation of relieving angles.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11. Framing alignment, plumbness, levelness, or slope.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. Holes, cut flanges, etc. that have not been reviewed and accepted by the SER.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13. Metal floor and roof deck. (Gage, profile, alignment fastening.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
14. Shear connections: size, quantity, weld quality, ferrules removed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15. Inspection/testing agency inspections been performed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16. Other: <u>Diagonal Kickers at Line 8.4 between A and B</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Is reinspection required?

Yes  No **Comments:**

- Special inspections of Structural Steel is ongoing.
- Item #2: Submittal of Mill Certificates is required to verify Materials

## SPECIAL INSPECTIONS OF STRUCTURAL STEEL (CONTINUED)

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- Item #16: The kickers from the beam along Line 8.4 to the W21x44 to the east were installed from the bottom flange of the beam at 8.4 to the top flange of the beam to the east. According to section E16c/SF504 (indicated on section as "Req'd @E16c only...." these are indicated to be installed from the top flange at 8.4 to the bottom flange of the beam to the east.

**Inspected By: Matthew J. Miller, P.E.**

**MATTHEW J. MILLER, P.E.**

STRUCTURAL ENGINEERING CONSULTANT

23 THORNBURY WAY  
WINDHAM, ME 04062  
207.232.2258**SPECIAL INSPECTIONS OF  
STRUCTURAL STEEL****Report No. 5-003**

Project No.: 09012

Date: 12/02/09

Project Name: Martin's Point MOB Special Inspections

Time: 09:10 am to 10:20 am

Weather: Sunny, Mid 40's

Present at Site: Matthew Miller

Location(s) of Inspection: Third Level Framing Lines A to D between Lines 1 and 4, Lines C to D between Lines 4 and 7

Item:	General Conformance	Non Conformance	Corrected while on site	Not Completed	N/A
1. Contractor using accepted shop drawings.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Materials comply with accepted material certificates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Anchor rod size, spacing, column base plate details.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Beam and Column size and spacing.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Beam to beam and beam to column details.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Column and beam splice details.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Installation of lateral bracing / moment connections.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Installation of bar joist framing and connections.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9. Installation of bar joist bridging and anchorage.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10. Installation of relieving angles.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11. Framing alignment, plumbness, levelness, or slope.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. Holes, cut flanges, etc. that have not been reviewed and accepted by the SER.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13. Metal floor and roof deck. (Gage, profile, alignment fastening.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
14. Shear connections: size, quantity, weld quality, ferrules removed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15. Inspection/testing agency inspections been performed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16. Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Is reinspection required?

Yes  No **Comments:**

- Special inspections of Structural Steel is ongoing.
- Item #5: The connection between the W16x26 along Line 7 from C to the south east corner of the stair tower precast wall panel had a missing bolt. The top and bottom bolts had been installed, however there

## SPECIAL INSPECTIONS OF STRUCTURAL STEEL (CONTINUED)

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appeared to be a misaligned hole for the center bolt. GC or Structural Steel subcontractor to provide fix detail.

**Inspected By: Matthew J. Miller, P.E.**

**MATTHEW J. MILLER, P.E.**

STRUCTURAL ENGINEERING CONSULTANT

23 THORNBURY WAY  
WINDHAM, ME 04062  
207.232.2258**SPECIAL INSPECTIONS OF  
STRUCTURAL STEEL****Report No. 5-004**Project No.: 09012Date: 12/15/09Project Name: Martin's Point MOB Special InspectionsTime: 11:50 am to 2:20 pmWeather: Cloudy, Low 40'sPresent at Site: Matthew MillerLocation(s) of Inspection: Third Level and Roof Framing Lines A to D between Lines 8 and 13. Third Level Framing Lines A to D between I and 8.

Item:	General Conformance	Non Conformance	Corrected while on site	Not Completed	N/A
1. Contractor using accepted shop drawings.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Materials comply with accepted material certificates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Anchor rod size, spacing, column base plate details.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Beam and Column size and spacing.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Beam to beam and beam to column details.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Column and beam splice details.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Installation of lateral bracing / moment connections.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Installation of bar joist framing and connections.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Installation of bar joist bridging and anchorage.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Installation of relieving angles.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11. Framing alignment, plumbness, levelness, or slope.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Holes, cut flanges, etc. that have not been reviewed and accepted by the SER.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Metal floor and roof deck. (Gage, profile, alignment fastening.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
14. Shear connections: size, quantity, weld quality, ferrules removed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15. Inspection/testing agency inspections been performed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16. Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Is reinspection required?

Yes  No **Comments:**

- Special inspections of Structural Steel is ongoing.

## SPECIAL INSPECTIONS OF STRUCTURAL STEEL (CONTINUED)

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- Item #5 - The connection between beam 69BI and Column 333C1 only contained (4) bolts, where there were 5 holes punched in the beam web. It appeared that the bolts were either 7/8" or 1" diameter bolts. GC Verify connection for SER approval.
- Item #12 - One web penetration through beam 87BI located at midspan did not have stiffeners installed per detail A15/SF102.
- Item #12 - The bottom flange of beam 23BI (Located to the East of Line 8.4 spanning between B and C) was field cut in order to install a bolt.

Inspected By: **Matthew J. Miller, P.E.**

**MATTHEW J. MILLER, P.E.**

STRUCTURAL ENGINEERING CONSULTANT

23 THORNBURY WAY  
WINDHAM, ME 04062  
207.232.2258**SPECIAL INSPECTIONS OF  
STRUCTURAL STEEL****Report No. 5-005**Project No.: 09012Date: 01/05/10Project Name: Martin's Point MOB Special InspectionsTime: 9:45 am to 11:15 amWeather: Cloudy, Low 30'sPresent at Site: Matthew MillerLocation(s) of Inspection: Third Level and Roof Framing Lines A to D between I and 8

Item:	General Conformance	Non Conformance	Corrected while on site	Not Completed	N/A
1. Contractor using accepted shop drawings.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Materials comply with accepted material certificates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Anchor rod size, spacing, column base plate details.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Beam and Column size and spacing.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Beam to beam and beam to column details.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Column and beam splice details.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Installation of lateral bracing / moment connections.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Installation of bar joist framing and connections.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Installation of bar joist bridging and anchorage.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Installation of relieving angles.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11. Framing alignment, plumbness, levelness, or slope.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Holes, cut flanges, etc. that have not been reviewed and accepted by the SER.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Metal floor and roof deck. (Gage, profile, alignment fastening.)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Shear connections: size, quantity, weld quality, ferrules removed.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Inspection/testing agency inspections been performed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16. Other: Bond outs over composite beams	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Is reinspection required? Yes  No

**Comments:**

- Item #2: Mill Certifications for Structural Steel and Bar Joist still need to be submitted to SI for use.
- Item #13: There was limited access to the roof level, therefore the deck fastening pattern could not be reviewed. Additional review will be necessary. Side lap fasteners were noted from below and were in conformance with the structural drawings. Along Line D the floor deck was welded to the steel angle at

## SPECIAL INSPECTIONS OF STRUCTURAL STEEL (CONTINUED)

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spacings exceeding 3'-0" oc. In accordance with Deck note #1C this fastening should be at 12" oc max. Tim Street of Pizzagalli was notified of the non-conformance.

- Item #14: Studs were counted at random locations on the third floor and the number of studs was in conformance with the structural drawings. The majority of the shear studs at the roof level were not observed due to limited access, however several beams in the vicinity of Stair Tower A were observed. The number of studs at the (2) W21X44's was only 20 studs where 24 studs are required per the structural drawings.
- Item #16: At various locations bond outs were installed over composite beams. This occurred both where the concrete slab had previously been placed, and where preparations were being made for future placement. In accordance to e-mail from Janusz Wszola on 1/05/10 bond outs should not be located directly over a beam.

**Inspected By:** Matthew J. Miller, P.E.



**MATTHEW J. MILLER, P.E.**

STRUCTURAL ENGINEERING CONSULTANT

23 THORNBURY WAY  
WINDHAM, ME 04062  
207.232.2258**SPECIAL INSPECTIONS OF  
STRUCTURAL STEEL****Report No. 5-006**

Project No.: 09012

Date: 01/12/10 and 01/13/10

Project Name: Martin's Point MOB Special Inspections

Time: 11:00 am to 12:00 pm and  
1:45-2:15 pm

Weather: Sunny, High 20's

Present at Site: Matthew Miller

Location(s) of Inspection: Roof Level Decking

Item:	General Conformance	Non Conformance	Corrected while on site	Not Completed	N/A
1. Contractor using accepted shop drawings.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Materials comply with accepted material certificates.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Anchor rod size, spacing, column base plate details.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Beam and Column size and spacing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Beam to beam and beam to column details.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Column and beam splice details.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Installation of lateral bracing / moment connections.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Installation of bar joist framing and connections.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9. Installation of bar joist bridging and anchorage.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10. Installation of relieving angles.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11. Framing alignment, plumbness, levelness, or slope.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Holes, cut flanges, etc. that have not been reviewed and accepted by the SER.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
13. Metal floor and roof deck. (Gage, profile, alignment fastening.)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Shear connections: size, quantity, weld quality, ferrules removed.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Inspection/testing agency inspections been performed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Is reinspection required? Yes  No

**Comments:**

- Item #13: The roof decking had been installed. In accordance with the project specification, the decking should be laid out in a 3 span condition. In order to get the decking to match the roof slopes, the top flutes of the decking were cut in a number of areas therefore reducing the number of spans of the

## SPECIAL INSPECTIONS OF STRUCTURAL STEEL (CONTINUED)

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decking. These areas are indicated on copies of the decking shop drawings attached. A large portion of the roof could not be reviewed due to installation of the roofing. The general areas of installed roofing is also shown on the attached decking drawings.

**Inspected By: Matthew J. Miller, P.E.**

**MATTHEW J. MILLER, P.E.**

STRUCTURAL ENGINEERING CONSULTANT

23 THORNBURY WAY  
WINDHAM, ME 04062  
207.232.2258**SPECIAL INSPECTIONS OF  
STRUCTURAL STEEL****Report No. 5-007**Project No.: 09012Date: 01/19/10Project Name: Martin's Point MOB Special InspectionsTime: 1:00 pm to 1:30 pmWeather: cloudy, snowing, mid 20'sPresent at Site: Matthew Miller, Tim StreetLocation(s) of Inspection: Roof Level Decking

Item:	General Conformance	Non Conformance	Corrected while on site	Not Completed	N/A
1. Contractor using accepted shop drawings.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Materials comply with accepted material certificates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Anchor rod size, spacing, column base plate details.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Beam and Column size and spacing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Beam to beam and beam to column details.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Column and beam splice details.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Installation of lateral bracing / moment connections.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Installation of bar joist framing and connections.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9. Installation of bar joist bridging and anchorage.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10. Installation of relieving angles.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11. Framing alignment, plumbness, levelness, or slope.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12. Holes, cut flanges, etc. that have not been reviewed and accepted by the SER.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
13. Metal floor and roof deck. (Gage, profile, alignment fastening.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
14. Shear connections: size, quantity, weld quality, ferrules removed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15. Inspection/testing agency inspections been performed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
16. Other: Remedial Strap installation per NCR-006	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Is reinspection required? Yes  No

**Comments:**

- Item #16: I visited the site to review the corrective detail per NCR-006. Where the roof deck had been cut, the straps over the cut had been installed per NCR-006 SMRT details S-1 to S-3. While on site it was noted that only one screw was installed on each side of the cut line at each deck flute where as the detail called for 2 screws each side each flute. Tim Street confirmed the intent of the detail with Janusz Wszola

## SPECIAL INSPECTIONS OF STRUCTURAL STEEL (CONTINUED)

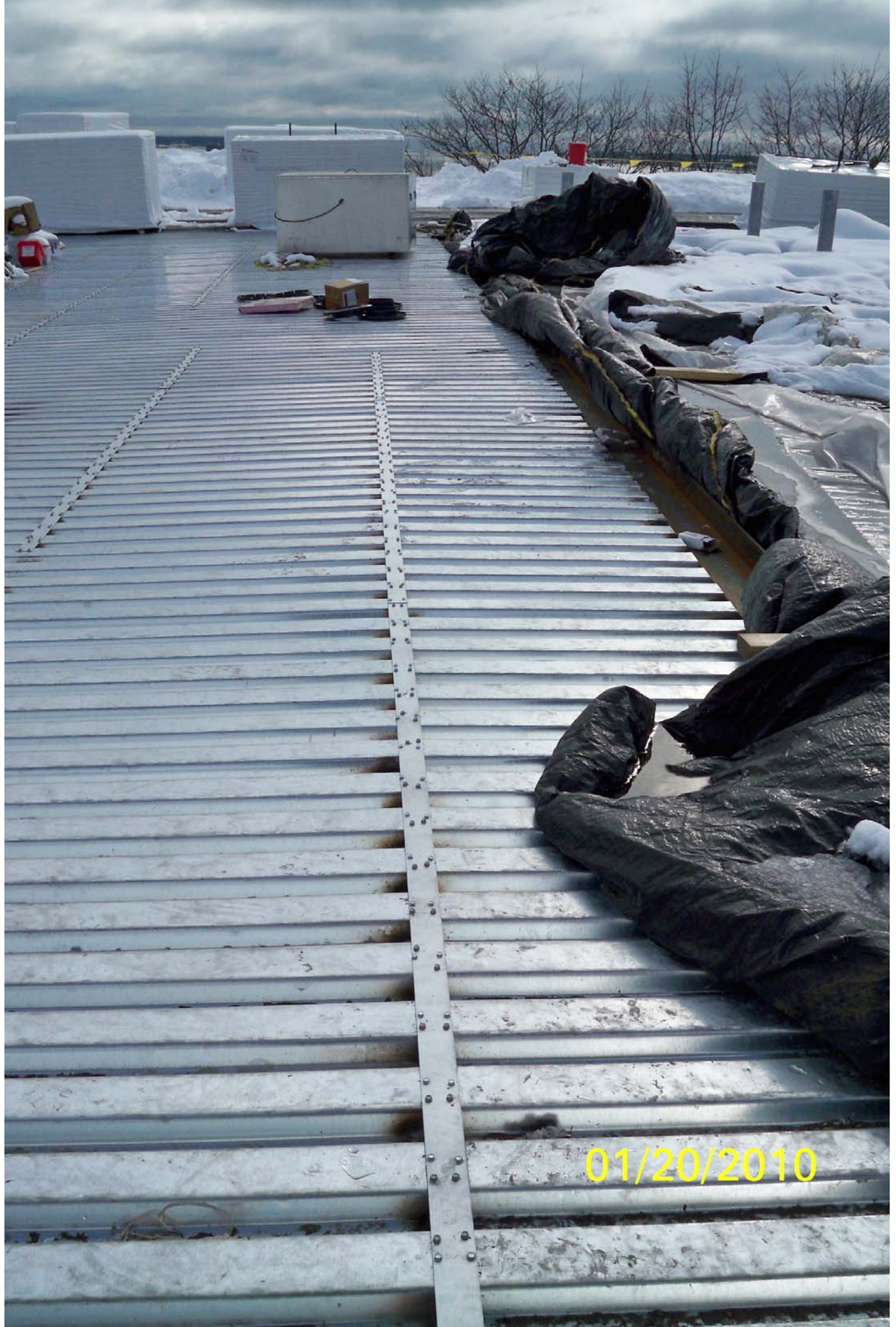
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of SMRT that 2 screws should be installed. Photos provided by Tim Street of Pizzagalli construction on January 20, 2010 showed the additional screws had been installed. Copies of the photos are attached.

**Inspected By: Matthew J. Miller, P.E.**



01/20/2010



01/20/2010

**MATTHEW J. MILLER, P.E.**

STRUCTURAL ENGINEERING CONSULTANT

23 THORNBURY WAY  
WINDHAM, ME 04062  
207.232.2258**SPECIAL INSPECTIONS OF  
STRUCTURAL STEEL****Report No. 5-007**Project No.: 09012Date: 06/07/10Project Name: Martin's Point MOB Special InspectionsTime: 12:00 pm to 12:30 pmWeather: sunnyPresent at Site: Matthew Miller, Tim StreetLocation(s) of Inspection: Canopy Framing

Item:	General Conformance	Non Conformance	Corrected while on site	Not Completed	N/A
1. Contractor using accepted shop drawings.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Materials comply with accepted material certificates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Anchor rod size, spacing, column base plate details.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Beam and Column size and spacing.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Beam to beam and beam to column details.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Column and beam splice details.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Installation of lateral bracing / moment connections.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Installation of bar joist framing and connections.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9. Installation of bar joist bridging and anchorage.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10. Installation of relieving angles.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11. Framing alignment, plumbness, levelness, or slope.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Holes, cut flanges, etc. that have not been reviewed and accepted by the SER.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
13. Metal floor and roof deck. (Gage, profile, alignment fastening.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Shear connections: size, quantity, weld quality, ferrules removed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15. Inspection/testing agency inspections been performed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Is reinspection required? Yes  No

**Comments:**

- The steel at the exterior canopies had been installed. Items noted to be in conformance with the contract documents.

**Inspected By: Matthew J. Miller, P.E.**





## INSPECTION REPORT

CUSTOMER: S. W. COLE ENG.			PAGE 1 OF 1
ADDRESS: GRAY, ME.			
ATTENTION: ROGER DOMINGO			
COPIES:			
PROJECT: MARTIN'S POINT HEALTH CARE MOB - PORTLAND, MAINE			
OWNER: SAME			
CONTRACTOR: PIZZAGALI CONSTRUCTION INC.			
JOB No.: 05-0927.4	REPORT No.: QAL-09-1964	P. O. NUMBER:	DATES INSPECTED: 11 - 04 - 09

### REMARKS

>>>>> SITE VISIT TO PERFORM VISUAL INSPECTION OF PARKING GARAGE PRECAST WELDED FIELD CONNECTION : AREA GRID LOCATIONS 1 - 13, A - D SECOND LEVEL PLAN .

> AREA 1 - 6.5, A - D SHOWS ALL COLUMN, DOUBLE T'S, CENTER BEAMS, AND SHEAR WALL CONNECTIONS AS IN-PROGRESS .

> AREA 6.5 - 13, A - D SHOWS THE FOLLOWING :

- A) ELEVATOR SHAFT IN-PROGRESS FOR WALL VECTORS, EMBED PLATE TO PLATE, CORNER ANGLE CLIPS, AND PSA STRAP CONNECTIONS .
- B) DOUBLE T'S TO DOUBLE T'S VECTOR PLANK CONNECTIONS APPROX. 80% COMPLETE .
- C) LOWER LEVEL DOUBLE T'S TO DOUBLE T'S S/S PLATE CONNECTIONS APPROX. 70% COMPLETE . THE PSA STRAP CONNECTIONS FOR PLANK AND BEAM CONNECTIONS APPROX. 60% COMPLETE . NOTE: some adjustments at line (a) show removal of psa strap connections to facilitate wall and floor dimentions . (in-progress) DOUBLE T'S TO SHEAR WALL CONNECTIONS APPROX. 50% COMPLETE .
- D) COLUMN TO PRECAST CENTER BEAM EMBEDDED PLATE CONNECTIONS APPROX. 90% COMPLETE, TO INCLUDE SHEAR WALL TO BASEMENT FOUNDATION PLATE CONNECTIONS .
- E) STAIR WELL LOCATIONS SHOW WALL VEXTOR'S, ANGLE CLIPS, AND PLATE TO PLATE EMBEDDED CONNECTIONS APPROX. 60% COMPLETE .

NOTE: REVIEW OF WELDER CERTIFICATIONS SHOWS (1) WELDER WITH OUT-OF DATE PAPER WORK. CONTINUITY VERIFICATION FORTHCOMING . note: no reason to question his quality of work .

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

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

ADDITIONAL INFORMATION - SEE ATTACHED:  SKETCH(ES)  SUPPLEMENTARY SHEET(S)  NDT REPORTS  VIDEO

SIGNATURES		CERTIFICATION		DATE			
		LEVEL	M	D	Y		
INSPECTOR	M. Drew	cwi # 99050211	ASNT	II	11	04	09
SUPERVISOR							

## INSPECTION REPORT

CUSTOMER: S. W. COLE ENG.			PAGE 1 OF 1
ADDRESS: GRAY, ME.			
ATTENTION: ROGER DOMINGO			
COPIES:			
PROJECT: MARTIN'S POINT HEALTH CARE MEDICAL OFFICE BUILDING - PORTLAND, ME.			
OWNER: SAME			
CONTRACTOR: PIZZAGALLI CONSTRUCTION			
JOB No.: 05-0927.4	REPORT No.: QAL-09-2037	P. O. NUMBER:	DATES INSPECTED: 11 - 19 - 09

### REMARKS

>>>>>> SITE VISIT TO PERFORM VISUAL INSPECTION OF PARKING GARAGE PRECAST FIELD CONNECTIONS TO INCLUDE START-UP OF STRUCTURAL STEEL ERECTION. GRID LOCATIONS 1 - 13 , A - D FOR ALL ELEVATIONS :

- > PRECAST FIELD CONNECTIONS COMPLETED WITH THE EXCEPTIONS OF THE FOLLOWING ITEMS :
  - A) LOWER LEVEL LOCATION 5.6 - C.8 ELEVATOR TOWER WALL TO WALL MISSING VECTOR CONNECTION .
  - B) LINE ( D ) - 3.2 SHOWS DT TO WALL ANGLE BOLTED CLIP IN-PROGRESS - STRESCON REMEDIAL LIST.
  - C) LOWER LEVEL SHOWS PSA STRAPS WITH OUT OF LOCATION EMBEDS AND MISSING EMBEDS - SEE STRESCON REMEDIAL LIST.
  - D) DT VECTOR STAINLESS SLUG WELDS SHOW ( 3 ) LOCATIONS WITH INCOMPLETED FIELD WELDS AS MARKED ON STRESCON DRAWINGS .
  
- > STAIR A & B PRECAST CONNECTIONS COMPLETE . ALL STAIR INSTALATIONS COMPLETE FOR RISERS , LANDINGS , BOLTED CONNECTIONS , AND HILTI ATTACHMENTS .
  
- > STRUCTURAL STEEL ERECTION SHOWS IN-PROGRESS AT LOCATIONS 7 - 13 , A - D FOR THIRD LEVEL AND ROOF FRAMING PLAN FOR A325 T/C BOLTED COLUMN TO BEAM AND BEAM TO BEAM CONNECTIONS .

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

END ITEMS////

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

ADDITIONAL INFORMATION - SEE ATTACHED:				<input type="checkbox"/> SKETCH(ES)	<input type="checkbox"/> SUPPLEMENTARY SHEET(S)	<input type="checkbox"/> NDT REPORTS	<input type="checkbox"/> VIDEO
<b>SIGNATURES</b>						<b>CERTIFICATION</b>	<b>DATE</b>
INSPECTOR M. Drew CWI # 99050211						ASNT	M D Y 11   19   09
SUPERVISOR							

# Quality Assurance Labs Inc.

NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES

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

## INSPECTION REPORT

CUSTOMER: S. W. COLE ENG.			PAGE 1 OF 1
ADDRESS: GRAY, ME.			
ATTENTION: ROGER DOMINGO			
COPIES:			
PROJECT: MARTIN'S POINT HEALTH CARE MEDICAL OFFICE BLD. - PORTLAND, ME.			
OWNER: SAME			
CONTRACTOR: PIZZAGALI CONSTRUCTION			
JOB No.: 05-0927.4	REPORT No.: QAL-09-2146	P. O. NUMBER:	DATES INSPECTED: 12 - 10 - 09

### REMARKS


>>>>> SITE VISIT TO PERFORM IN-PROCESS VISUAL INSPECTION OF FIELD WELDING OF BEAM WEB CLIP REPLACEMENTS AT GRID LINES 1 & 13 :

> REF. RFI # 80 DRAWING # FW 2 : IN-PROCESS VISUAL INSPECTION OF REPLACEMENT BEAM WEB CLIPS SHOW COMPLIANCE TO DRAWING F W 2 AND AWS D1.1 REQUIREMENTS FOR VISUAL ACCEPTANCE .

END ITEMS ///

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

ADDITIONAL INFORMATION - SEE ATTACHED:  SKETCH(ES)  SUPPLEMENTARY SHEET(S)  NDT REPORTS  VIDEO

SIGNATURES		CERTIFICATION		DATE				
		LEVEL	M	D	Y			
INSPECTOR	M. Drew	CWI # 99050211		ASNT	II	12	11	09
SUPERVISOR								

# Quality Assurance Labs Inc.

NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES

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

## INSPECTION REPORT

CUSTOMER: S. W. Cole			PAGE 1 OF 1
ADDRESS:			
ATTENTION: Craig			
COPIES: File			
PROJECT: Martin's Point Medical Office Building			
OWNER: Martin's Point Health Care			
CONTRACTOR:			
JOB No.: 05-0927.4	REPORT No.: QAL-09-2197	P. O. NUMBER: 05-0927.4	DATES INSPECTED: 12/21/2009

### REMARKS

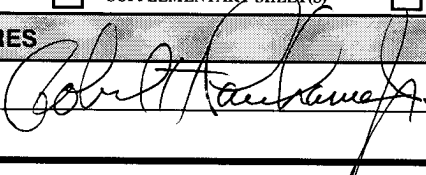
Ultrasonic Inspection was performed on the following:  
8 moment connections. See attached report.

Visual Inspection was performed on the 3rd floor shear studs at the following location:  
Between the 8 Line and 13 Line, and A Line and D Line.  
This area was found to be acceptable.  
Balance of 3rd floor was in progress.

Inspection performed IAW AWS D1.1 2008 Edition and Contract Drawing SF102.

///Last Item///

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

ADDITIONAL INFORMATION - SEE ATTACHED:				<input type="checkbox"/> SKETCH(ES)	<input type="checkbox"/> SUPPLEMENTARY SHEET(S)	<input type="checkbox"/> NDT REPORTS	<input type="checkbox"/> VIDEO
<b>SIGNATURES</b>				<b>CERTIFICATION</b>		<b>DATE</b>	
INSPECTOR R. H. Parechian, Jr. CWI #90100111 				LEVEL		M	DATE
				ASNT	III	12	21
SUPERVISOR							

# Quality Assurance Labs Inc.

NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES

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

## INSPECTION REPORT

CUSTOMER: S. W. COLE ENG.			PAGE 1 OF 1
ADDRESS: GRAY, ME.			
ATTENTION: ROGER DOMINGO			
COPIES: FILE			
PROJECT: MARTIN'S POINT HEALTH CARE - PORTLAND, ME.			
OWNER: SAME			
CONTRACTOR: PIZZAGALLI CONSTRUCTION			
JOB No.: 05-0927.4	REPORT No.: QAL-10-0118	P. O. NUMBER:	DATES INSPECTED: 01-21-10

### REMARKS

>>>>>> SITE VISIT TO PERFORM VISUAL INSPECTION OF STRUCTURAL STEEL FIELD CONNECTIONS PER ENGINEERING REPORT No. NC0004. DATED 12-16-09 :


> REF. E1 SHOP DRAWING FW 9 : VISUAL INSPECTION OF NEW PLATE MKD-374P1 SHOWS FIELD WELD COMPLIES WITH SHOP DRAWING AND AWS D1.1 REQUIREMENTS FOR VISUAL ACCEPTANCE .

> REF. E2 SHOP DRAWING FW 8 : VISUAL INSPECTION OF ADDED STIFFNER PLATES 375P1 SHOWS FIELD WELDING COMPLIES WITH SHOP DRAWING AND AWS D1.1 REQUIREMENTS FOR VISUAL ACCEPTANCE .

END ITEMS ////

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

ADDITIONAL INFORMATION - SEE ATTACHED:  SKETCH(ES)  SUPPLEMENTARY SHEET(S)  NDT REPORTS  VIDEO

SIGNATURES		CERTIFICATION		DATE				
		LEVEL	M	D	Y			
INSPECTOR	M. Drew	CWI # 99050211		ASNT	II	01	22	10
SUPERVISOR								

# Quality Assurance Labs Inc.

NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES

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

## INSPECTION REPORT

CUSTOMER: S. W. COLE ENG.	PAGE 1 OF 1
ADDRESS: GRAY, ME.	
ATTENTION: ROGER DOMINGO	
COPIES: FILE	
PROJECT: MARTIN'S POINT HEALTH CARE MEDICAL OFFICE BUILDING	
OWNER: SAME	
CONTRACTOR: PIZZAGALI CONSTRUCTION	
JOB No.: 05-0927.4	REPORT No.: QAL-10-0406
P. O. NUMBER:	DATES INSPECTED: 03 - 10 - 10

### REMARKS

>>>>> SITE VISIT TO PERFORM FINAL VISUAL INSPECTIONS OF STRUCTURAL STEEL FIELD CONNECTIONS PER CONTRACTOR REQUEST : GRID LOCATIONS 1 - 13.2 , A - D FOR SECOND LEVEL , THIRD LEVEL , AND ROOF FRAMING PLANS :

- > SECOND LEVEL PLAN SHOWS ALL PRECAST FIELD WELDED CONNECTIONS COMPLETED .
- > THIRD LEVEL PLAN SHOWS THE FOLLOWING :
  - A) LOCATION 2 - A SHOWS ( 2 ) INCOMPLETE HALFEN CONNECTIONS. LOCATION 1 - C ALSO SHOWS ( 2 ) INCOMPLETE HALFEN CONNECTIONS.
  - B) GRID LINE 13 SHOWS NUMEROUS HALFEN AND UPPER LEVEL ANGLE CLIP CONNECTIONS STILL IN-PROGRESS FOR FINAL ATTACHMENTS TO PRECAST AND C M U'S .
  - C) NUMEROUS PRECAST COLUMN TO W 21"S AND W 24"S SHOW INCOMPLETE ANCHOR BOLTED FIELD CONNECTIONS . missing flat washers and nuts, re-visit all column locations for missing nuts and washers.
- > ROOF LEVEL PLAN SHOWS THE FOLLOWING :
  - A) LOCATION LINE D - 6 - 8 SHOWS HALFEN CLIP CONNECTIONS IN-PROGRESS . TO INCLUDE LOWER ELEVATION C M U CLIP CONNECTIONS .
  - B) LOCATION D - 12 - 13 SHOWS ANGLE KICKER BRACE WITH INCOMPLETED FIELD WELDS . ALSO AT LINE 13 - B - C ANGLE KICKER BRACE CONNECTIONS WITH BOLTS ONLY , REQUIRES WELDING PER DRAWING DETAIL .

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

END ITEMS /////

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



MICHAEL W. DREW  
CWI 99050211  
QC1 EXP. 06/01/11

ADDITIONAL INFORMATION - SEE ATTACHED:				<input type="checkbox"/> SKETCH(ES)	<input type="checkbox"/> SUPPLEMENTARY SHEET(S)	<input type="checkbox"/> NDT REPORTS	<input type="checkbox"/> VIDEO
<b>SIGNATURES</b>						<b>CERTIFICATION</b>	
INSPECTOR M. Drew CWI # 99050211						LEVEL	DATE
						ASNT	M D Y
SUPERVISOR						II	03   10   10

# Quality Assurance Labs Inc.

NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES

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

## INSPECTION REPORT

CUSTOMER: S. W. COLE ENG.	PAGE 1 OF 1
ADDRESS: GRAY, ME.	
ATTENTION: ROGER DOMINGO	
COPIES: FILE	
PROJECT: MARTIN'S POINT HEALTH CARE MEDICAL OFFICE BLD.	
OWNER: SAME	
CONTRACTOR: PIZZAGALI CONSTRUCTION	
JOB No.: 05-0927.4	REPORT No.: QAL-10-0822
P. O. NUMBER:	DATES INSPECTED: 05-20-10

### REMARKS

>>>> SITE VISIT TO PERFORM VISUAL INSPECTIONS OF STRUCTURAL STEEL FIELD CONNECTIONS PER SITE DOCUMENTS AND AWS D1.1, D1.3 REQUIREMENTS FOR VISUAL ACCEPTANCE.

> VISUAL INSPECTION OF FRONT ENTRANCE CANOPY AT LOCATION LINE 6 - 8 REVEALED THE FOLLOWING :

A) HSS COLUMN TO ANCHOR PLATES SHOWS 5/16" FILLET WELDS APPROX. 70% COMPLETE. IN-PROGRESS.

B) HIGH STRENGTH A325 BOLTED CONNECTIONS COMPLETE.

C) ROOF FRAMING BEAM TO BEAM C J P FIELD WELDS COMPLETE.

> VISUAL INSPECTION OF CANOPY AT LOCATION 7 - 8.4 STAIR (B) COMPLETE FOR ATTACHMENT TO PRECAST EMBEDMENTS.

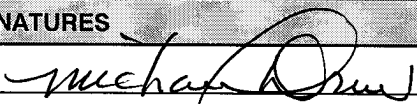
>>>> REF. PREVIOUS FIELD REPORT DATED 03 - 10 - 10 QAL-10-0406 FOR ANY AND ALL ITEMS IDENTIFIED AS INCOMPLETE OR IN-PROGRESS :

A) RE-INSPECTION OF ALL LISTED ITEMS ON REPORT SHOWS ALL ITEMS NOW COMPLETED. ( approx. time for re-inspection of above listed items was 1 hour )

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

END ITEMS/////

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

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

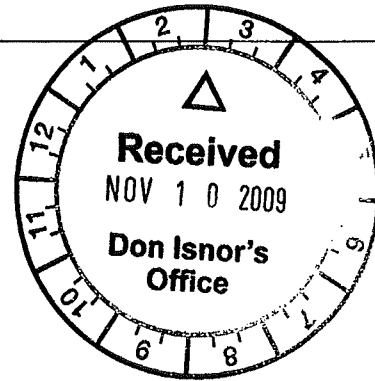








lh  
CG



11/3/2009

Mr. Don Isnor  
General Manager  
Strescon Limited  
P.O. Box 3187, Station B  
Saint John, NB E2M 3S3

Dear Mr. Isnor:

Congratulations! You successfully completed your latest PCI Plant Certification audit. Please find enclosed a copy of your audit report.

This audit was conducted on 9/30/2009 for your plant in Saint John, NB. This continues your certification in good standing in the PCI Plant Certification Program in product groups and categories A1, B4, and C4A.

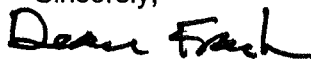
Certified plants undergo at least two unannounced audits annually. Strict compliance with detailed industry standards is necessary to retain certification. Standards are found in the nationally recognized PCI Quality Control Manuals MNL-116, -117, and -130. Failure to achieve these minimum standards will result in decertification. Specially qualified and accredited engineers from Ross Bryan Associates, Inc., of Nashville, Tennessee, perform all plant audits on behalf of PCI to ensure a high degree of independence, consistency, and uniformity in the program.

**Within 30 days of receiving this letter and your enclosed audit report, a written response showing the corrective actions taken to the nonconformances noted in Appendix B of your audit report must be sent to PCI.**

RBA is recognized as an Inspection Agency AA-703 Type A (Third Party) Body by the International Accreditation Services, Inc. (IAS), which was formed from the previous three legacy code organizations (BOCA, ICBO, SBCCI). PCI has demonstrated compliance with the ISO/IEC Standard 17020, general criteria for the operation of various types of bodies performing inspection (encompassing the relevant requirements of the ISO 9000 series of standards).

On behalf of the Precast/Prestressed Concrete Institute and the PCI Plant Certification Committee, we congratulate you on your continued certification.

Sincerely,



Dean Frank, P.E.  
Director of Quality Programs

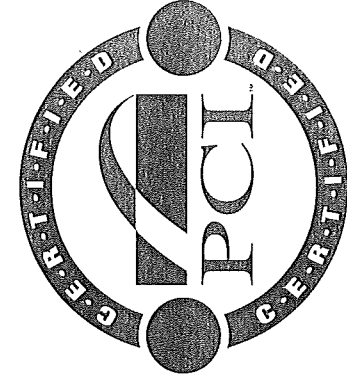
DAF/dlk

Enclosure

# Strescon Limited

Saint John, NB

having demonstrated the capability to produce quality products in accordance with the prescribed Plant Certification requirements is hereby recognized as a



*Certified Plant*

under the

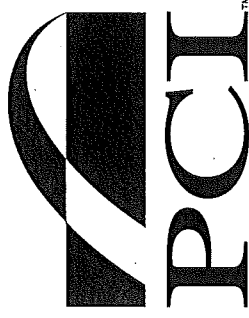
*PCI Plant Certification Program*

Certification is contingent upon meeting qualifications confirmed by continuing audits.

Certificate Expiration Date: 5/1/2011

*Dean Frank*

Dean Frank, Director of Quality Programs



Precast/Prestressed  
Concrete Institute

*James Toscas*

James Toscas, President

*American Institute of Steel Construction*

*is proud to recognize*

**Isaacson Structural Steel, Inc.**

Berlin, NH

*for successfully meeting the quality certification requirements for*

**Standard for Steel Building Structures**

Sophisticated Paint Coating Endorsement-  
Enclosed



*Roger E. Ferch*

Roger E. Ferch

*Certification valid through September 2010*

# **NUCOR**

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## **VULCRAFT GROUP**

VULCRAFT OF NEW YORK, INC.

August 11, 2009

Charles Leonard Construction  
183 Pembroke Rd.  
Concord, NH 03301

RE: Martin's Point Health Care @ Portland, Maine  
V-NY# 032-08-6548

### **SJI CERTIFICATION LETTER**

To Whom It May Concern:

This is to certify that Vulcraft of New York, Inc. is a member of the Steel Joist Institute.

As a member of the Steel Joist Institute, Nucor Corporation certifies that the Vulcraft open web steel joists and joist girders (K, H, LH, DLH, CJ, and Joist Girders) are designed and manufactured in accordance with the latest Steel Joist Institute Standard Specifications.

If verification is needed, please contact the Technical Director at the address below:

Steel Joist Institute  
196 Stonebridge Drive, Unit 1  
Myrtle Beach, SC 29588  
Phone: 843-293-1995  
Fax: 843-293-7500

Sincerely,

H. H. 'Skip' Fitts, P.E.  
ENGINEERING MANAGER

Cc: Jason Thornton

ENG 030 Rev 3 2009/2/1

# **NUCOR**

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## **VULCRAFT GROUP**

VULCRAFT OF NEW YORK, INC.

August 11, 2009

Charles Leonard Construction  
183 Pembroke Rd.  
Concord, NH 03301

RE: Martin's Point Health Care @ Portland, Maine  
V-NY# 032-08-6548

### **WELDER CERTIFICATION LETTER**

To Whom It May Concern:

Vulcraft of New York, Inc. hereby certifies that welders employed in the manufacturing of the open-web steel joists and/or joist girders for the project referenced above have been qualified in accordance with the applicable tests prescribed by American Welding Society (AWS) Structural Welding Code D1.1, Part C, Chapter 4.

Sincerely,

H. H. 'Skip' Fitts, P.E.  
ENGINEERING MANAGER

Cc: Jason Thornton

ENG 036 Rev 3 2009/2/1





# Fabricator's Certificate of Compliance

---

Each approved fabricator that is exempt from Special Inspection of shop fabrication and implementation procedures per section 1704.2 of the International Building Code must submit a *Fabricator's Certificate of Compliance* at the completion of fabrication.

Project: Martin's Point Medical Office Building

Fabricator's Name: Strescon Limited

Address: 101 Ashburn Road, Saint John, New Brunswick, E2L-3W2

Certification or Approval Agency: Precast/Prestressed Concrete Institute (PCI)

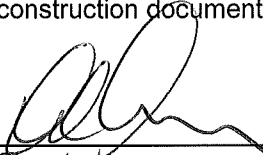
Certification Number: 00265

Date of Last Audit or Approval: September 30<sup>th</sup>, 2009

Description of structural members and assemblies that have been fabricated:

- (39) Precast/Prestressed Concrete Inverted T Beams
- (41) Precast/Prestressed Concrete Columns
- (99) Precast/Prestressed Concrete Double Tees (Garage Deck)
- (6) Precast/Prestressed Concrete Shear Wall Panels
- (18) Precast/Prestressed Concrete Stair Panels

I hereby certify that items described above were fabricated in strict accordance with the approved construction documents.

  
\_\_\_\_\_  
Signature

June 29, 2010  
Date

General Manager.  
Title

Attach copies of fabricator's certification or building code evaluation service report and fabricator's quality control manual

# Fabricator's Certificate of Compliance

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Each approved fabricator that is exempt from Special Inspection of shop fabrication and implementation procedures per section 1704.2 of the International Building Code must submit a *Fabricator's Certificate of Compliance* at the completion of fabrication.

Project: Martin's point health care  
Fabricator's Name: Isaacson structural Steel Inc  
Address: 40 Jericho rd Berlin, NH 03570  
Certification or Approval Agency: American Institute of Steel Construction (AISC)  
Certification Number: N/A  
Date of Last Audit or Approval: August 2009

Description of structural members and assemblies that have been fabricated:

344 tons of structural beams and columns for medical office building with precast parking structure below (Precast by others)

I hereby certify that items described above were fabricated in strict accordance with the approved construction documents.

Steph Beirney  
Signature

6/18/10  
Date

Project Manager  
Title

Attach copies of fabricator's certification or building code evaluation service report and fabricator's quality control manual

# Fabricator's Certificate of Compliance

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Each approved fabricator that is exempt from Special Inspection of shop fabrication and implementation procedures per section 1704.2 of the International Building Code must submit a *Fabricator's Certificate of Compliance* at the completion of fabrication.

Project: **Martins Point M.O.B**

Fabricator's Name: **Charles Leonard Steel Services, LLC**

Address: **183 Pembroke Road, Concord, NH 03301**

Certification or Approval Agency: **A.W.S/ SFNE (See Attached)**


Certification Number: **02110941**

Date of Last Audit or Approval: **N.A.**

Description of structural members and assemblies that have been fabricated:

- Preassembled Steel Stairs**
- Steel Tube Railings Attached to Metal Pans**
- Steel Tube Handrails Attached to Walls**

I hereby certify that items described above were fabricated in strict accordance with the approved construction documents.

  
\_\_\_\_\_  
Signature

6-18-10  
Date

owner  
\_\_\_\_\_  
Title

Attach copies of fabricator's certification or building code evaluation service report and fabricator's quality control manual

**NUCOR**  
**VULCRAFT GROUP**

VULCRAFT SALES CORPORATION

June 22, 2010

Contact LEONARD SEVERINI  
Company Name: CHARLES LEONARD CONST.  
Address 183 PEMBROKE ROAD  
City: CONCORD ST: NH Zip Code 03301

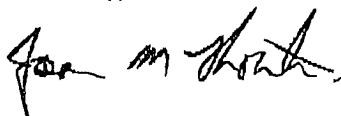
Reference: MARTINS POINT MOB  
Purchase Order Number: D1710-1  
Vulcraft Number: 032-08-6548

Gentlemen:

Vulcraft Division, Nucor Corporation, hereby certifies that we are a member of the Steel Joist Institute. Vulcraft open web steel joists are designed and manufactured in accordance with the standard joist specifications of the Steel Joist Institute.

These joists will safely support a uniformly distributed load as designated in the applicable Steel Joist Institute load table, for the particular type and span, when field applications are in accordance with these specifications.

Cordially,



JASON THORNTON  
DISTRICT SALES MANAGER

**NUCOR**  
**VULCRAFT GROUP**

VULCRAFT SALES CORPORATION

June 22, 2010

Contact : LEONARD SEVERINI  
Company Name : CHARLES LEONARD CONST.  
Address: 183 PEMBROKE ROAD  
City: CONCORD ST: NH Zip Code 03301

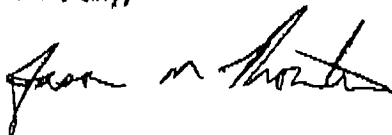
Reference: MARTINS POINT MOB  
Purchase Order Number: D1710-1  
Vulcraft Number: 032-08-6548

Gentlemen:

This is to certify that Vulcraft Division of Nucor Corporation, Chemung, NY, is a member of the Steel Deck Institute.

As members of the Steel Deck Institute, Vulcraft steel deck section properties are determined using the appropriate provisions of the latest edition of the American Iron and Steel Institute's specification for the design of cold-formed steel structural members and is built with strict adherence to the standard specifications of the Steel Deck Institute.

Cordially,



JASON THORNTON  
DISTRICT SALES MANAGER