

Final Report of Structural Special Inspections

Apartment and Retail Building Mixed Use Development

85 York Street Portland, Maine November 9, 2017

Prepared by:

Structural Engineer of Record

Becker Structural Engineers, Inc. 75 York Street Portland, ME 04101 207. 879. 1838

<u>Owner</u>

101 York Street LLC P.O. Box 207 Portland, ME 04112

Architect of Record

Opechee Construction Corporation 11 Corporate Drive Belmont, NH03220 603-527-9090

Contractor

Opechee Construction Corporation 11 Corporate Drive Belmont, NH03220 603-527-9090

Date Prepared: March 25, 2016

Structural Statement of Special Inspections

Project: Apartment and Retail Building Mixed Use Development

Location: York and High Street, Portland, Maine

Owner: 101 York Street LLC

This Statement of Special Inspections encompass the following discipline: Structural

This Statement of Special Inspections is submitted as a condition for permit issuance in accordance with the Special Inspection and Structural Testing requirements of the Building Code. It includes a schedule of Special Inspection services applicable to this project as well as the name of the Structural Special Inspection Coordinator (SSIC) and the identity of other approved agencies to be retained for conducting these inspections and tests.

The Structural Special Inspection Coordinator shall keep records of all Structural inspections and shall furnish inspection reports to the Building Code Official (BCO) and the Structural Registered Design Professional in Responsible Charge (SRDP). Discovered discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Structural Registered Design Professional in Responsible Charge. The Special Inspection program does not relieve the Contractor of his or her responsibilities.

Interim reports shall be submitted to the Building Official and the Structural Registered Design Professional in Responsible Charge at an interval determined by the SSIC and the BCO.

A *Final Report of Special Inspections* documenting completion of all required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted to the BCO prior to issuance of a Certificate of Use and Occupancy.

Job site safety and means and methods of construction are solely the responsibility of the Contractor.

Interim Report Frequency:	☑Upon request of Building	Official	or \square per attached schedule.
Prepared by:			MINIMAN MANAGER
Todd M. Neal, P.E.			The communication of the second
(type or print name of the Structure Professional in Responsible Ch		_	TODD M. NEAL NO. 9406
Signature		3/21/16 Date	O LOENS COM LEGISLATION OF THE PROPERTY OF THE
olg.lata.o		Dute	Design Professional Seal
Owner's Authorization:		Building Code Officia	l's Acceptance:
Signature	Date	Signature	Date

Date Prepared: March 25, 2016

Wood Construction

Structural Statement of Special Inspections (Continued)

Project: Apartment and Retail Building Mixed Use Development Location: York and High Street, Portland, Maine Owner: 101 York Street LLC This Statement of Special Inspections encompass the following discipline: Structural (Note: Statement of Special Inspections for other disciplines may be included under a separate cover) This Statement of Special Inspections / Quality Assurance Plan includes the following building systems: Soils and Foundations Cast-in-Place Concrete Precast Concrete System Structural Masonry Systems Structural Steel

☐ Special Cases

Special Inspection Agencies	Firm	Address, Telephone, e-mail		
STRUCTURAL Special Inspections Coordinator (SSIC)	Becker Structural Engineers, Inc.	75 York Street Portland, ME 04101 207-879-1838		
2. Special Inspector (SI 1)	Becker Structural Engineers, Inc.	75 York Street Portland, ME 04101 207-879-1838		
3. Special Inspector (SI 2)	S. W. Cole Engineering, Inc.	286 Portland Road Gray, ME 04039 207-657-2866		
4. Testing Agency (TA 1)	S. W. Cole Engineering, Inc.	286 Portland Road Gray, ME 04039 207-657-2866		
5. Testing Agency (TA 2)				
6. Other (O1)				

Note: The inspectors and testing agencies shall be engaged by the Owner or the Owner's Agent, and <u>not</u> by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official, prior to commencing work.

Date Prepared: March 25, 2016

Structural Statement of Special Inspections (Continued)

Final Report of Special Inspections (SSIC/SI 1)

[To be completed by the Structural Special Inspections Coordinator (SSIC/SI 1). Note that all Agent's Final Reports must be received prior to issuance.]

Project:

Apartment and Retail Building Mixed Use Development

Location:

York and High Street, Portland, Maine

Owner:

101 York Street LLC

Owner's Address:

Architect of Record:

Keith Kelley, AIA

Opechee Construction Corporation

(firm)

Structural Registered Design

Professional in Responsible Charge:

Todd M. Neal, P.E.

Becker Structural Engineers, Inc.

(firm)

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.

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, Structural Special Inspection Coordinator

f. Morslin.

David A. Macolini, P.E.

(Type or print name)

Becker Structural Engineers, Inc.

(Firm Name)

Signature

Date

DAVID

MACOLINI
No. 8351

OCENSEO

Licensed Professional Seal

Date Prepared: March 25, 2016

Structural Schedule of Special Inspections

Qualifications of Inspectors and Testing Technicians

The qualifications of all personnel performing Special Inspection and testing activities are subject to the approval of the Building Official. The credentials of all Inspectors and testing technicians shall be provided to the Special Inspector for their records. NOTE VERIFICATION THAT QUALIFIED INDIVIDUALS ARE AVAILABLE TO PERFORM STIPULATED TESTING AND/OR INSPECTION SHOULD BE PROVIDED PRIOR TO SUBMITTING STATEMENT. AGENT QUALIFICATIONS IN SCHEDULE ARE SUGGESTIONS ONLY; FINAL QUALIFICATIONS ARE SUBJECT TO THE DISCRETION OF THE REGISTERED DESIGN PROFESSIONAL PREPARING THE SCHEDULE.

Key for Minimum Qualifications of Inspection Agents:

When the Registered Design Professional in Responsible Charge or Special Inspector of Record deems it appropriate that the individual performing a stipulated test or inspection have a specific certification, license or experience as indicated below, such requirement shall be listed below and shall be clearly identified within the schedule under the Agent Qualification Designation.

PE/SE Structural Engineer – a licensed SE or PE specializing in the design of building structures
PE/GE Geotechnical Engineer – a licensed PE specializing in soil mechanics and foundations
EIT Engineer-In-Training – a graduate engineer who has passed the Fundamentals of Engineering

examination

Experienced Testing Technician

ETT Experienced Testing Technician – An Experienced Testing Technician with a minimum 5 years

experience with the stipulated test or inspection

American Concrete Institute (ACI) Certification

ACI-CFTT Concrete Field Testing Technician – Grade 1
ACI-CCI Concrete Construction Inspector

ACI-LTT Laboratory Testing Technician – Grade 1&2

ACI-STT Strength Testing Technician

American Welding Society (AWS) Certification

AWS-CWI Certified Welding Inspector
AWS/AISC-SSI Certified Structural Steel Inspector

American Society of Non-Destructive Testing (ASNT) Certification

ASNT Non-Destructive Testing Technician – Level II or III.

International Code Council (ICC) Certification

ICC-SMSI	Structural Masonry Special Inspector
ICC-SWSI	Structural Steel and Welding Special Inspector
ICC-SFSI	Spray-Applied Fireproofing Special Inspector
ICC-PCSI	Prestressed Concrete Special Inspector
ICC-RCSI	Reinforced Concrete Special Inspector

National Institute for Certification in Engineering Technologies (NICET)

NICET-CT	Concrete Technician – Levels I, II, III & IV
NICET-ST	Soils Technician - Levels I, II, III & IV

NICET-GET Geotechnical Engineering Technician - Levels I, II, III & IV

Other

Structural Statement of Special Inspections (Continued) – Exhibit A

Special Inspector's/Agent's Final Report

Project:	85 York Street Apartment Building and Parking Garage, Portland, Maine
Special Inspector or Agent:	S.W.COLE Engineering, Inc.
Designation:	SI-2

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

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

Date

· · · · ·	
Timothy J. Boyce, P.E.	
(Type or print name)	
Boyce	11-8-2017

S/gr/ature





Geopier Foundation Company

165 Taylor Road Colchester, CT 06415

Tel: (860) 531-9137 Cell: (860) 373-3542 www.geopier.com

November 9, 2017

GNE-01207

Jason Blais Opechee Construction Corporation 11 Corporate Drive Belmont, NH 03220

Subject: Geopier Performance Verification Letter

Mixed Use Development, York & High Streets, Portland, ME

Dear Jason:

I have reviewed the Special Inspector's/Agents Final Reports from S.W. Cole, Inc. dated March 17 and 25, 2016, and the Structural Statement of Special Inspections dated November 8, 2017 in conjunction with the Geopier Quality Control (QC) Records provided to you on June 14, 2016.

Based on the confirmation provided in the S.W. Cole reports that indicates that the foundation excavation, subgrade preparation, backfill placement and Geopier construction has been performed in accordance with project drawings and specifications, that include our Geopier Design Submittal dated March 7, 2016, the Geopier Foundation Company accepts the responsibility for the ground improvement system to perform in accordance with the design criteria and intent represented in the Geopier Design Submittal.

If you any questions or need further clarifications. Thank you again for inviting us to work with you on the project.

Sincerely,

GEOPIER FOUNDATION COMPANY

ing the the

Benjamin M. Cote, PE Region Engineer

cc:

Derek Simpson (HDI) – via email Tim Boyce (SW Cole) – via email David Malconi (Becker Structural Engineers) – via email Mike Pockoski (Geopier Foundation Co.) – via email Project: Apartment and Retail Building Mixed Use Development Date Prepared: March 25, 2016

Structural Statement of Special Inspections (Continued) Special Inspector's/Agent's Final Report (SI 2 & TA 1)

Project:	Apartment and Retail Buildin	ng Mixed Use Development	
Special Inspector or			
Agent:	Roger Domingo		Cole Engineering Inc.
	(name)	(firm)	
Designation:	Special Inspector 2 (SI2) & 7	Γesting Agency 1 (TA1)	
designated for this In:	mation, knowledge and belie spector/Agent in the <i>Stater</i> vered discrepancies have be	ment of Special Inspections	resting required for this project, and submitted for permit, have been
Interim reports submitte report.	ed prior to this final report forr	n a basis for and are to be co	nsidered an integral part of this final
Respectfully submitted, Special Inspector or Ag			
D ED '			
Roger E. Domingo			
(Type or print name)			
Roger & Do	may		
		11/2/17	
Signature		Date	
			Licensed Professional Seal or
			Certification Number



Report of Gradation

Project Name

PORTLAND ME - YORK & HIGH STREETS MIXED DEVELOPMENT -

CONSTRUCTION MATERIALS TESTING AND SPECIAL INSPECTION

Project Number 13-0545.3 Lab ID

20681G

Client

J.B. BROWN & SONS

Material Type

STRUCTURAL FILL

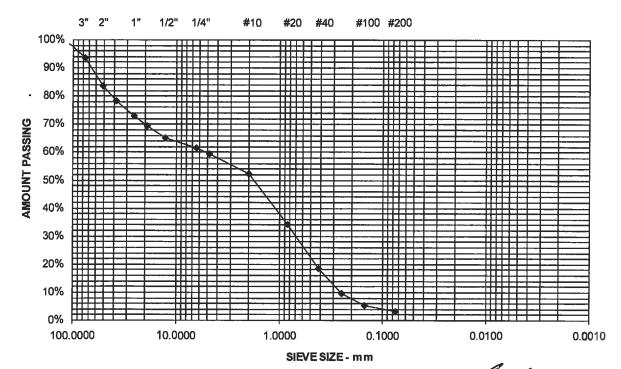
Date Received 4/15/2016 Date Completed 4/18/2016

Material Source GSG - COMMERCIAL STREET

JUSTIN BISSON Tested By

STANDARD			SWCE STRUCTURAL FI	LL
DESIGNATION (mm/µm)	SIEVE SIZE	AMOUNT PASSING (%)	SPECIFICATIONS (%)
150 mm	6"	100		
125 mm	5"	100		
100 mm	4"	98	100	t
75 mm	3"	93	90 - 100	
50 mm	2"	84		
38.1 mm	1-1/2"	78		
25.0 mm	1"	73		
19.0 mm	3/4"	69		
12.5 mm	1/2"	65		
6.3 mm	1/4"	61	25 - 90	
4.75 mm	No. 4	59		
2.00 mm	No. 10	52		
850 um	No. 20	34		
425 um	No. 40	18	0 - 30	
250 um	No. 60	10		
150 um	No. 100	5		
75 um	No. 200	3.2	0.0 - 5.0	

† SAMPLE DOES NOT MEET SPECIFICATION



Comments

Roger E. Domingo



Report of Moisture-Density

Method ASTM D-1557 MODIFIED

Procedure C

Project Name

PORTLAND ME - YORK & HIGH STREETS MIXED

DEVELOPMENT - CONSTRUCTION MATERIALS TESTING AND

Client

J.B. BROWN & SONS

Material Type

STRUCTURAL FILL

Material Source

GSG - COMMERCIAL STREET

Project Number

13-0545.3

Lab ID

20681G

Date Received

4/15/2016

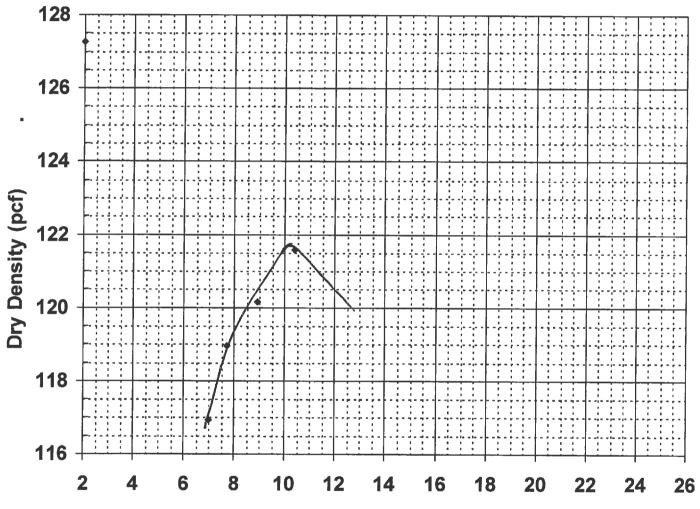
Date Completed

4/20/2016

Tested By

JOSHUA MOORE

Moisture-Density Relationship Curve



Moisture Content (%)

Maximum Dry Density (pcf) Optimum Moisture Content (%) 121.8

Corrected Dry Density (pcf)

130.6

Percent Oversized

10.1 30.0%

Corrected Moisture Content (%)

7.7

Comments

Roger . Domingo



Report of Gradation

ASTM C-117 & C-136

Project Name

PORTLAND ME - YORK & HIGH STREETS MIXED DEVELOPMENT -

CONSTRUCTION MATERIALS TESTING AND SPECIAL INSPECTION

Client

J.B. BROWN & SONS

Material Type

IN PLACE BORROW

Material Source IN PLACE - ON SITE

Project Number 13-0545.3

Lab ID 20729G

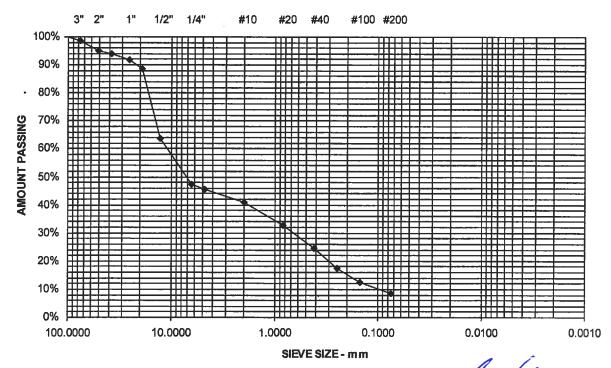
Date Received 4/29/2016

Date Completed 4/29/2016

Tested By

JUSTIN BISSON

STANDARD DESIGNATION (mm/µm)	SIEVE SIZE	AMOUNT PASSING (%)	SPECIFICATIONS (%)
150 mm	6"	100	
125 mm	5"	100	
100 mm	4"	100	
75 mm	3"	99	
50 mm	2"	95	
38.1 mm	1-1/2"	94	
25.0 mm	1"	92	
19.0 mm	3/4"	89	
12.5 mm	1/2"	64	
6.3 mm	1/4"	47	
4.75 mm	No. 4	46	
2.00 mm	No. 10	41	
850 um	No. 20	33	
425 um	No. 40	24	
250 um	No. 60	17	
150 um	No. 100	13	
75 um	No. 200	8.4	



Comments

Roger E. Domingo



Report of Moisture-Density

Method ASTM D-1557 MODIFIED

Procedure C

Project Name

PORTLAND ME - YORK & HIGH STREETS MIXED

DEVELOPMENT - CONSTRUCTION MATERIALS TESTING AND

Client

J.B. BROWN & SONS

Material Type

IN PLACE BORROW

Material Source

IN PLACE - ON SITE

Project Number

13-0545.3

Lab ID

20729G

Date Received

4/29/2016

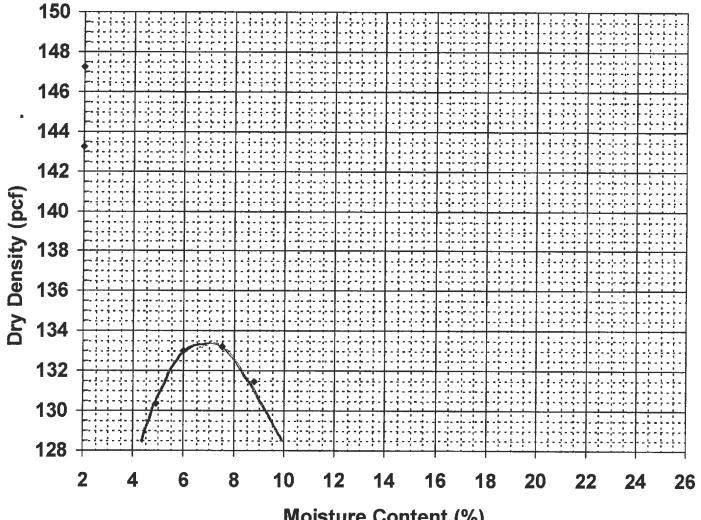
Date Completed

4/29/2016

Tested By

PAUL SHAFFER

Moisture-Density Relationship Curve



Moisture Content (%)

Maximum Dry Density (pcf) Optimum Moisture Content (%) 133.6

Corrected Dry Density (pcf)

135.9

Percent Oversized

11.4%

Corrected Moisture Content (%)

6.2

Comments



Report of Gradation

Project Name

PORTLAND ME - YORK & HIGH STREETS MIXED DEVELOPMENT -

CONSTRUCTION MATERIALS TESTING AND SPECIAL INSPECTION

Client

J.B. BROWN & SONS

Material Type

AGGREGATE SUBBASE

Material Source PHINNEY PIT

Project Number 13-0545.3

Lab ID

20874G

Date Received

5/24/2016

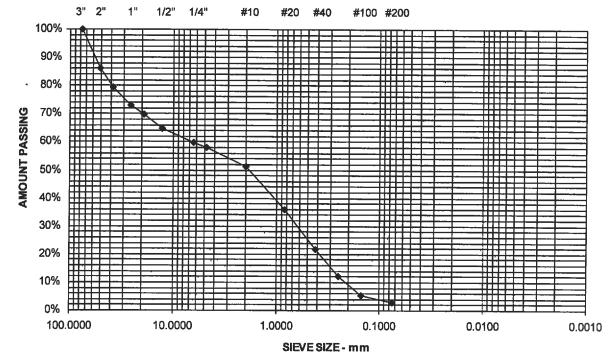
Date Completed 5/28/2016

Tested By

JUSTIN BISSON

STANDARD DESIGNATION (mm/µm)	SIEVE SIZE	AMOUNT PASSING (%)	MDOT 703.06 TYPE D SPECIFICATIONS (%)
150 mm	6"	100	100
125 mm	5"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	86	
38.1 mm	1-1/2"	79	
25.0 mm	1"	73	
19.0 mm	3/4"	70	
12.5 mm	1/2"	65	
6.3 mm	1/4"	60	25 - 70
4.75 mm	No. 4	58	
2.00 mm	No. 10	51	
850 um	No. 20	36	
425 um	No. 40	22	0 - 30
250 um	No. 60	12	
150 um	No. 100	5	
75 um	No. 200	3.0	0.0 - 7.0

SAMPLE MEETS SPECIFICATION



Comments

Roger E/Domingo



Report of Moisture-Density

Method ASTM D-1557 MODIFIED

Procedure C

Project Name

PORTLAND ME - YORK & HIGH STREETS MIXED

DEVELOPMENT - CONSTRUCTION MATERIALS TESTING AND

Client

J.B. BROWN & SONS

Material Type

AGGREGATE SUBBASE

Material Source PHINNEY PIT

Project Number

13-0545.3

Lab ID

20874G

Date Received

5/24/2016

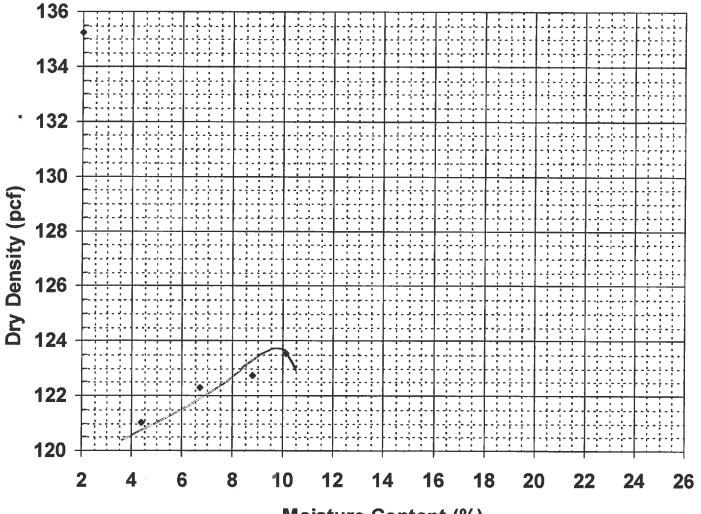
Date Completed

6/3/2016

Tested By

PAUL SHAFFER

Moisture-Density Relationship Curve



Moisture Content (%)

Maximum Dry Density (pcf)

123.7

Corrected Dry Density (pcf)

131.9

Optimum Moisture Content (%) Percent Oversized

9.7 29.1%

Corrected Moisture Content (%)

7.5

Comments

Roger E



Report of Gradation

Project Name

PORTLAND ME - YORK & HIGH STREETS MIXED DEVELOPMENT -

CONSTRUCTION MATERIALS TESTING AND SPECIAL INSPECTION

Project Number 13-0545.3 Lab ID

Client

J.B. BROWN & SONS

20875G

Material Type

STRUCTURAL SAND

Date Received 5/24/2016

Material Source MIGHTY STREET PIT

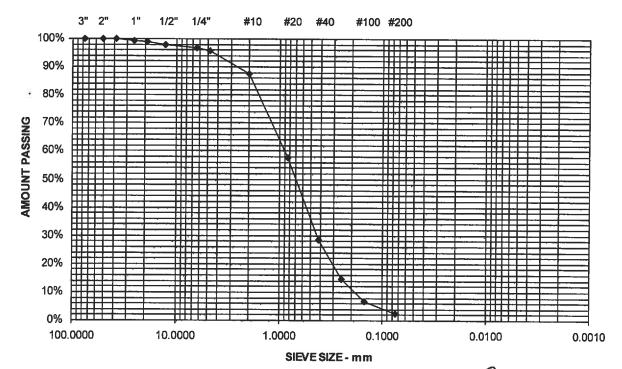
Date Completed 5/28/2016

Tested By

JUSTIN BISSON

			•	
STANDARD			SWCE STRUCTURAL FILL	
DESIGNATION (mm/µm)	SIEVE SIZE	AMOUNT PASSING (%)	SPECIFICATIONS (%)	
150 mm	6"	100		
125 mm	5"	100		
100 mm	4"	100	100	
75 mm	3"	100	90 - 100	
50 mm	2"	100		
38.1 mm	1-1/2"	100		
25.0 mm	1"	99		
19.0 mm	3/4"	99		
12.5 mm	1/2"	98		
6.3 mm	1/4"	97	25 - 90 †	
4.75 mm	No. 4	96		
2.00 mm	No. 10	88		
850 um	No. 20	58		
425 um	No. 40	28	0 - 30	
250 um	No. 60	15		
150 um	No. 100	7		
75 um	No. 200	2.6	0.0 - 5.0	

† SAMPLE DOES NOT MEET SPECIFICATION



Comments



Report of Moisture-Density

Method ASTM D-1557 MODIFIED

Procedure A

Project Name

PORTLAND ME - YORK & HIGH STREETS MIXED

DEVELOPMENT - CONSTRUCTION MATERIALS TESTING AND

Client

J.B. BROWN & SONS

Material Type

STRUCTURAL SAND

Material Source

MIGHTY STREET PIT

Project Number

13-0545.3

Lab ID

20875G

Date Received

5/24/2016

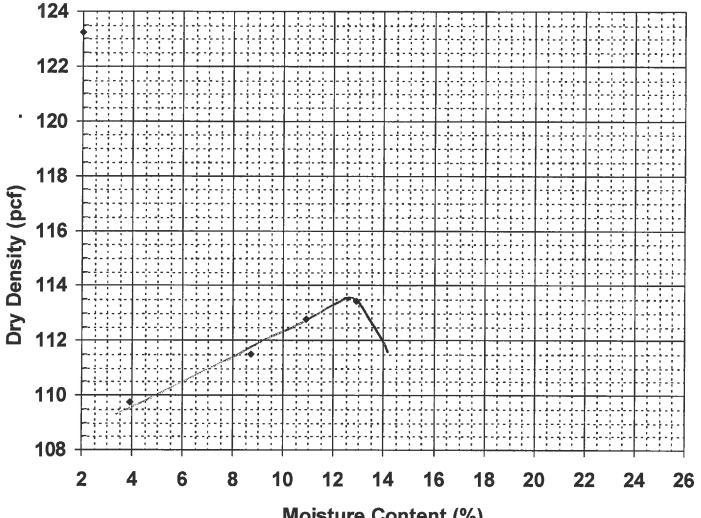
Date Completed

6/3/2016

Tested By

AIDAN BOYCE

Moisture-Density Relationship Curve



Moisture Content (%)

Maximum Dry Density (pcf)

Optimum Moisture Content (%)

113.5 12.5

Corrected Dry Density (pcf)

114.8

Percent Oversized

4.2%

Corrected Moisture Content (%)

12.1

Comments



Report of Gradation

Project Name

Client

PORTLAND ME - YORK & HIGH STREETS MIXED DEVELOPMENT -

CONSTRUCTION MATERIALS TESTING AND SPECIAL INSPECTION

J.B. BROWN & SONS

Material Type

1 1/2" GRAVEL

Material Source COMMERCIAL STREET

Project Number 13-0545.3

Lab ID

21130G

Date Received

7/12/2016

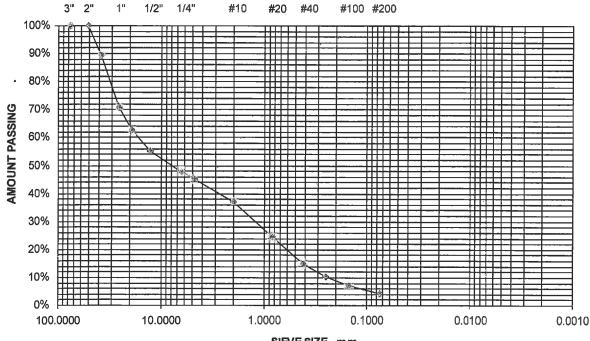
Date Completed 7/13/2016

Tested By

PAUL SHAFFER

			100100 2)
<u>STANDARD</u> DESIGNATION (mm/µm)	SIEVE SIZE	AMOUNT PASSING (%)	MDOT 703.06 TYPE A SPECIFICATIONS (%)
150 mm	6"	100	
125 mm	5"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	100
38.1 mm	1-1/2"	89	
25.0 mm	1"	71	
19.0 mm	3/4"	62	
12.5 mm	1/2"	55	45 - 70
6.3 mm	1/4"	48	30 - 55
4.75 mm	No. 4	45	
2.00 mm	No. 10	37	
850 um	No. 20	25	
425 um	No. 40	15	0 - 20
250 um	No. 60	10	
150 um	No. 100	7	
75 um	No. 200	4.4	0.0 - 5.0

SAMPLE MEETS SPECIFICATION



SIEVE SIZE - mm

Comments

Rogete E. Domingo



Report of Moisture-Density

Method ASTM D-1557 MODIFIED

Procedure C

Project Name

PORTLAND ME - YORK & HIGH STREETS MIXED

DEVELOPMENT - CONSTRUCTION MATERIALS TESTING AND

Client

J.B. BROWN & SONS

Material Type

1 1/2" GRAVEL

Material Source

COMMERCIAL STREET

Project Number

13-0545.3

Lab ID

21130G

Date Received

7/12/2016

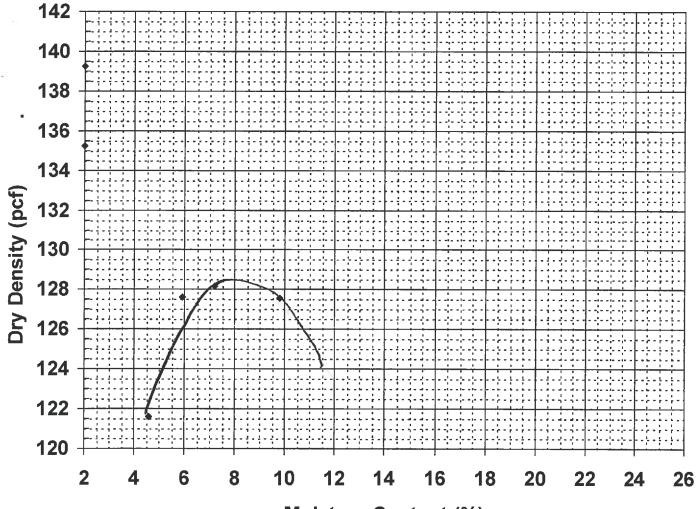
Date Completed

7/13/2016

Tested By

PAUL SHAFFER

Moisture-Density Relationship Curve



Moisture Content (%)

Maximum Dry Density (pcf)

128.5

Corrected Dry Density (pcf)

136

Optimum Moisture Content (%)

8

Corrected Moisture Content (%)

6.2

Percent Oversized

30.0%

1/2

Comments



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

S.W.COLE Rep: C. Cromwell

CONSTRUCTION OBSERVATION REPORT

Project: Mixed Use Development, York & High Street, Portland, ME S.W.COLE Project No.: 13-0545.3

Client: J.B. Brown & Sons, Inc.

Date: 7/12/16

Client's Rep.: Vin Veroneau Weather: Sunny, 80s

General Contractor/CM: Opechee Construction Corp. /Dave Trottier

Work in Progress: Gorham Sand and Gravel, Inc. (GSG) were in progress of excavating strip footing between 1-line and 2-line on G-line.

General Observations and Discussions:

While on-site, Opechee requested we observe GSG preparing strap footing subgrades between 1-line and 2-line on G-line. Excavation was done with a smooth-edge bucket and was excavated down to bedrock per geotechnical report. The northern side of footing was excavated down approximately 4 feet to get to bedrock. This area was leveled out with rest of footing with ¾ -inch stone that was compacted in 1-foot lifts. Non-woven geotextile fabric was placed down over subgrades and at least 6-inches of ¾ -inch stone was compacted and wrapped in fabric.

Onsite: 8:30 – 11:30 Attachments: Photos

Sheet: 1 of 1 Rev. RED

S W COLE is on-site at the request of our client to provide construction materials testing and to observe and document construction











Geotechnical Engineering
 Field & Lab Testing
 Scientific & Environmental Consulting

S.W.COLE Rep: C. Cromwell

CONSTRUCTION OBSERVATION REPORT

Project: Mixed Use Development, York & High Street, Portland, ME S.W.COLE Project No.: 13-0545.3

Client: J.B. Brown & Sons, Inc.

Date: 7/14/16

Client's Rep.: Vin Veroneau Weather: Sunny, 80s

General Contractor/CM: Opechee Construction Corp. /Dave Trottier

Work in Progress: Gorham Sand and Gravel, Inc. (GSG) were in the process of excavating out for keyways on A-line from 9.4-line to 17-line and 17-line from A-line to D-line.

General Observations and Discussions:

While on-site, Opechee requested S.W.COLE observe GSG excavating out for keyways on A-line from 9.4-line to 17-line and 17-line from A-line to D-line. Subgrade was initially dug down to bottom of footing with a smoothedged bucket and appeared to be relatively undisturbed; exposed subgrade soils consisted of brown silt and sand with some gravel. Keyway was being excavated between Rammed Aggregate Piers (RAPs) and appeared to be relatively dry and undisturbed.

Onsite: 9:00 – 10:30 Attachments: Photos

Sheet: 1 of 1 Rev. RED











Geotechnical Engineering
 Field & Lab Testing
 Scientific & Environmental Consulting

CONSTRUCTION OBSERVATION REPORT

Project: Mixed Use Development, York & High Street, Portland, ME S.W.COLE Project No.: 13-0545.3

Client: J.B. Brown & Sons, Inc.

Date: 8/24/16

Client's Rep.: Vin Veroneau Weather: Sunny, 80s

Work in Progress: Tristone: Installation of formwork and reinforcing steel along A-line of the mixed use building in preparation for tomorrow's concrete placement. Gorham Sand and Gravel, Inc. (GS&G): Excavation for interior spread footings associated with the mixed use building at B.3/15.5, B.3/15.9, C/15, C/15.5 including the elevator between 13 and 14-lines.

General Observations and Discussions: As scheduled by Opechee Construction (Dave), we made a site visit to observe subgrade conditions and preparations in the current work area. At the time of our site visit, GS&G had recently completed excavation for the above referenced foundation elements and was in the process of checking elevations with their GPS prior to completing the required preparations. The excavation had been made with a smooth-edged bucket to help minimize disturbance to the subgrade soils and extended approximately 6 inches below proposed bottom of footings to accommodate the compacted crushed stone layer specified in section 4.3 of the project geotechnical report dated August, 31, 2015. At exposed subgrade, the previously installed rammed aggregate piers were visible and the subgrade soils consisting of relic crushed stone and gray silty sand with gravel were observed to be dry and firm. Subgrade conditions and preparations observed during our visit appeared consistent with our understanding of the expectations and requirements contained in the project documents.

Onsite: 1:00 – 2:00 Attachments: Photo

Attachments: Photo S.W.COLE Rep: K. Gimpel

Sheet: 1 of 1 Rev.: RED





Report of Field Density

ASTM D6938

Project: PORTLAND ME - YORK & HIGH STREETS MIXED DEVELOPMENT -

CONSTRUCTION MATERIALS TESTING AND SPECIAL INSPECTION SERVICES

Project Number: 13-0545.3

Client: J.B. BROWN & SONS

Field Density Test Results

			W.					Moisture		
Test#	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Content Percent	Compaction Percent	Required Compaction
8	7/11/2016	CLC	INTERIOR 8' OFF S SIDE WALL E LINE	TOSB	10	20681G	128.8	4.4	98.6	95
9	7/11/2016	CLC	INTERIOR 10' OFF S SIDE WALL C LINE	TOSB	10	20681G	126.9	3.8	97.2	95
10	7/11/2016	CLC	INTERIOR SW CORNER 20' OFF S SIDE 20' OFF W SIDE	TOSB	10	20681G	127.3	4.8	97.5	95
11	7/11/2016	CLC	INTERIOR ON A LINE 20' FROM CORNER OF STAIRS	TOSB	10	20681G	125.3	4.2	95.9	95
12	7/11/2016	CLC	NEXT TO PIER C/1	TOF	12	20875G	110.2	4.2	96.0	95
13	7/11/2016	CLC	NEXT TO PIER D/1	TOF	12	20875G	110.8	4.0	96.5	95
14	7/11/2016	CLC	NEXT TO PIER E/1	TOF	12	20875G	112.4	3.1	97.9	95
15	7/11/2016	CLC	NEXT TO PIER F/1	TOF	12	20875G	115.5	11.9	100.6	95
16	7/11/2016	CLC	NEXT TO PIER E/2	TOF	12	20875G	113.6	3.0	99.0	95
17	7/11/2016	CLC	NEXT TO PIER F/2	TOF	12	20875G	110.9	4.1	96.6	95
18	7/11/2016	CLC	E LINE 60' FROM S SIDE WALL	TOSB	10	20681G	128.7	4.9	98.5	95

Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	
20681G	4/15/2016	GSG - Commercial Street	Structural Fill	ASTM D-1557 Modified C	130.6	7.7	
20875G	5/24/2016	Mighty Street Pit	Structural Sand	ASTM D-1557 Modified A	114.8	12.1	

Comments:

Elevation Notes:

TOSB - TOP OF SUBBASE TOF - TOP OF FOOTING

1

Reviewed By



Report of Field Density

ASTM D6938

Project: PORTLAND ME - YORK & HIGH STREETS MIXED DEVELOPMENT -

CONSTRUCTION MATERIALS TESTING AND SPECIAL INSPECTION SERVICES

Project Number: 13-0545.3

J.B. BROWN & SONS Client:

Field Density Test Results

								Moisture		
Test#	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Content Percent	Compaction Percent	Required Compaction
19	7/14/2016	CLC	NEXT TO STRAP FOOTING ON G LINE W SIDE	TOF	10	20875G	109.7	3.8	95.6	95
20	7/14/2016	CLC	NEXT TO STRAP FOOTING ON G LINE E SIDE	TOF	10	20875G	110.5	3.4	96.3	95
21	7/14/2016	CLC	ON G LINE 75' FROM S SIDE WALL	FGS	10	20681G	128.7	2.9	98.5	95

Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Moisture Content (%)	Comments
20681G	4/15/2016	GSG - Commercial Street	Structural Fill	ASTM D-1557 Modified C	130.6	7.7	
20875G	5/24/2016	Mighty Street Pit	Structural Sand	ASTM D-1557 Modified A	114.8	12.1	
Elevation	Notes:		Com	ments:			

Elevation Notes:

TOF - TOP OF FOOTING

FGS - FINISH GRADE SUBBASE

Ondino....



Report of Field Density

ASTM D6938

Project: PORTLAND ME - YORK & HIGH STREETS MIXED DEVELOPMENT -

CONSTRUCTION MATERIALS TESTING AND SPECIAL INSPECTION SERVICES

Project Number: 13-0545.3

Client: J.B. BROWN & SONS

Field Density Test Results

Test#	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density		Compaction	Required Compaction
22	7/18/2016	CLC	6 LINE 25' OFF S WALL 70' OFF E WALL	FGS	10	20681G	127.0	4.4	97.2	95
23	7/18/2016	CLC	60' OFF S WALL, 10' OFF E WALL	FGS	10	20681G	128.0	4.6	98.0	95
24	7/18/2016	CLC	MIDDLE OF PIER AT G/2 & F/2	FGS	10	20681G	128.3	3.9	98.2	95
25	7/18/2016	CLC	MIDDLE OF PIER AT D/2 & E/2	FGS	10	20681G	129.8	2.8	99.4	95
26	7/18/2016	CLC	BETWEEN PIER AT 3B/2 AND W SIDE WALL A LINE MIDDLE	FGS	10	20681G	130.2	2.8	99.7	95
27	7/18/2016	CLC	10' OFF W SIDE WALL A LINE 30' OFF S SIDE WALL	FGS	10	20681G	127.6	3.3	97.7	95
28	7/18/2016	CLC	C LINE 60' FROM, S SIDE WALL	FGS	10	20681G	129.6	3.4	99.2	95
29	7/18/2016	CLC	10' OFF W SIDE WALL ON A LINE	FGS	10	20681G	128.1	3.7	98.1	95
30	7/18/2016	CLC	B LINE 50' OFF W SIDE WALL 60' OFF N SIDE WALL	FGS	10	20681G	128.4	3.6	98.3	95
31	7/18/2016	CLC	D LINE 100' OFF W SIDE 50' OFF N	FGS	10	20681G	124.2	3.3	95.1	95
32	7/18/2016	CLC	F LINE 60' FROM E SIDE WALL 10' OFF N	FGS	10	20681G	130.4	2.5	99.8	95
33	7/18/2016	CLC	5' OFF H LINE 50' OFF N	FGS	10	20681G	124.2	3.8	95.1	95
34	7/18/2016	CLC	BETWEEN PIERS AT A/1 AND B/1 MIDDLE	FGS	10	20681G	128.1	3.7	98.1	95
35	7/18/2016	CLC	BETWEEN PIERS AT C/1 AND D/1	FGS	10	20681G	129.0	3.5	98.8	95
36	7/18/2016	CLC	BETWEEN PIERS AT E/1 AND F/1	FGS	10	20681G	127.0	4.2	97.2	95

Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	
000040			01 1 1 50		4		
20681G	4/15/2016	GSG - Commercial Street	Structural Fill	ASTM D-1557 Modified C	130.6	7.7	

Elevation Notes:

Comments:

ALL ELEVATIONS ARE FINISH GRADE SUBBASE (FGS)

Reviewed By

Date Prepared: March 25, 2016

Structural Schedule of Special Inspections

CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	REQD Y/N	EXTENT: CONTINUOUS,	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
IBC Section 1704.4	Y/N	PERIODIC, SUBMITTAL, OR NONE			QUALIFICATION	COMPLETED
Inspection of reinforcing steel, including prestressing tendons, and placement	Y	P	ACI 318: 3.5, 7.1-7.7	SI1	PE/SE or EIT	July thru Sept, 2016
Inspection of reinforcing steel welding in accordance with Table 1704.3, Item 5B	N	-	Not applicable. Welding of Reinf Not Allowed	-	-	
 Inspect bolts to be installed in concrete prior to and during placement of concrete where allowable loads have been increased or where strength design is used. 	Y	С	IBC 1911.5	SI1	PE/SE or EIT	July thru Sept, 2016
Inspection of anchors installed in hardened concrete.	Y	Р	IBC 1212.1	SII	PE/SE or EIT	July thru Sept, 2016
5. Verifying use of required design mix	Y	Р	ACI 318: Ch 4, 5.2-5.4	TA1	ACI-CFTT or ACI-STT	July thru Sept, 2016
At time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests and determine the temperature of the concrete.	Y	С	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	TA1	ACI-CFTT or ACI-STT	Yes
7. Inspection of concrete and shotcrete placement for proper application techniques	N	С	ACI 318: 5.9, 5.10	TA1	ACI-CFTT or ACI-STT	
Inspection for maintenance of specified curing temperature and techniques	Y	Р	ACI 318: 5.11- 5.13	SI1	PE/SE or EIT	July thru Sept, 2016
9. Inspection of Prestressed Concrete						
a. Application of prestressing force.	N		ACI 318: 18.20			
b. Grouting of bonded prestressing tendons in seismic force resisting system	N		ACI 318: 18.18.4			
10. Erection of precast concrete members.	N		ACI 318: Ch 16			
11. Verification of in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beans and structural slabs.	N		ACI 318: 6.2			
12. Inspect formwork for shape, location and dimensions of the concrete member being formed.	Y	P	Limitations apply. See below	SI1	PE/SE or EIT	July thru Sept, 2016

Limitations of item 12: Special inspection includes periodic review of formwork shape, general location, and formwork dimensions that can be readily measured with conventional tape measure. Verification of building layout, building location, foundation extents, column grids, and foundation elevations is excluded.

<u>Note:</u> Concrete cylinder test results are not included in this report due to the large number of test reports. A PDF copy is available upon request.



Cast in Place Concrete

Project:	85 York Street – Apt & Retail
Location:	Portland, ME
Becker Job No:	3623

Date:	7/7/16, 7/8/16, 7/11/16, 7/12/16
Time:	Morning
Temp:	60F-70F
Weather:	Sunny

Observation Location: Wall and pier reinforcing on Y1 from X4 to X1 (north end of the shared wall between the garage and the building.)

	Satisfactory	Un-Satisfactory	Not Completed	Not Applicable	Comments
Reinforcement Size					
Quantity					
Condition					
Placement	\boxtimes				
Embed/Anchors	\boxtimes				
Lap Splices					
Hot Weather				\boxtimes	
Cold Weather				\boxtimes	
Bond Beams				\boxtimes	
Additional Items					

Notes:

1. Observed reinforcing appeared to be in general conformance with the structural drawings.

Signed: Ben Van Deventer, E.I.





Cast in Place Concrete

Project:	85 York Street – Apt & Retail
Location:	Portland, ME
Becker Job No:	3623

Date:	7/18/16
Time:	Afternoon
Temp:	85F
Weather:	Sunny

Observation Location: Foundation Wall Piers @ H/2 (Garage) & Y1/X4 (Building)





Photo 1) Pier @ H/2 (Garage)

Photo 2) Pier @ Y1/X4 (Building)

Submit procedure and product data for repairs to concrete piers, removing and replacing the approximate area indicated, to a depth where both solid concrete and a minimum of 1" clearance around exist bar is established. Maintain a roughened surface for bonding. Recommend max of 15lb hand tool to avoid micro-cracking surrounding concrete.

Signed: Ben Van Deventer, E.I.



Cast in Place Concrete

Project:	85 York Street – Apt & Retail
Location:	Portland, ME
Becker Job No:	3623

Date:	7/20/16, 7/22/16, 7/27/16, 7/28/16, 8/1/16, 8/216, 8/5/16
Time:	-
Temp:	75-85F
Weather:	Sunny

Observation Location: Foundation Footing from 10/A to 15/G

Observed vertical dowels for shear keys, transverse & longitudinal bars for footings, and vertical hooked bars for walls & piers.

Anchor bolts and shear lug bond-outs for ground floor brace connection at pier 15/A & pier 10/B were not provided. Anchor bolts will require drill & epoxy installation and the shear lug bond-out will be saw-cut.



Photo 1) Footing Reinforcement 15/A to 12/A



Photo 2) Footing, Pier & Wall Reinf. 17/C to 17/A



Photo 3) Footing & Wall Reinf. @ 10/A

Photo 4) Footing & Wall Reinf. @ 10/A



Photo 5) Footing Reinf. @ 15/G



Photo 6) Footing Placement @ 10/A



Photo 7) Footing Placement @ 17/G



Photo 8) Completed Footing @ 17/G



Photo 9) Completed Footing @ 13/A

Photo 10) Completed Footing @ 17/A

Signed: Ben Van Deventer, E.I.



Cast in Place Concrete

Project:	85 York Street – Apt & Retail
Location:	Portland, ME
Becker Job No:	3623

Date:	8/5/16, 8/8/16, 8/9/16, 8/16/16, 8/22/16
Time:	-
Temp:	75-85F
Weather:	Sunny

Observation Location: Wall & Pier Reinforcement from 17/G to 10/B

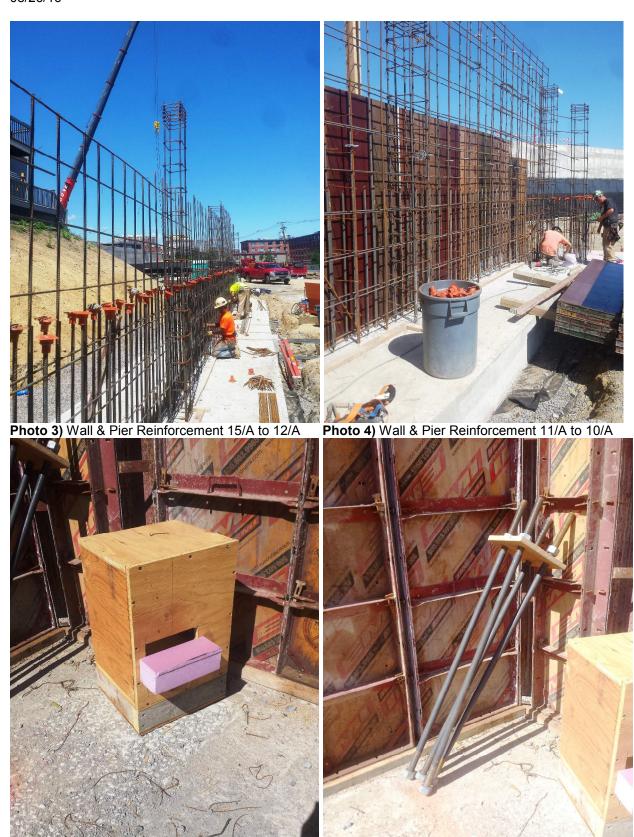
Type EP-3 embed plate @ 15/A was not available for installation at time of concrete placement. Plate will be drilled & Epoxied into pier.







Photo 2) Wall & Pier Reinforcement @ 17/A



Photos 5 &6) Dropped Pier & Shear Key Boundout, w/ Type AB-2 Anchor Bolts @ A/17



Photo 7) Dropped Pier Bondouts w/ Type AB-1 Anchor Bolts for Piers on A-Line & 17-Line



Photo 8) Embed Plates w/ Headed Studs



Photo 9) Completed Wall E/13 to G/15



Photo 10) Completed Wall G/17 to D.2/17



Photo 11) Completed Wall A/17 to A/15



Photo 12) Completed Wall A/14 to A/11

Signed: Ben Van Deventer, E.I.



OBSERVATION REPORT

Cast in Place Concrete

Project:	85 York Street – Apt & Retail
Location:	Portland, ME
Becker Job No:	3623

Date:	8/29/16 & 8/30/16
Time:	-
Temp:	75-85F
Weather:	Sunny

Observation Location: Footing, Piers & Retaining Walls from 10/B to 4/B. Column footing @ B.9-C/15-15.4

	Satisfactory	Un-Satisfactory	Not Completed	Not Applicable	Comments
Reinforcement Size					
Quantity					
Condition					
Placement					
Embed/Anchors					
Lap Splices					
Hot Weather				\boxtimes	
Cold Weather				\boxtimes	
Bond Beams					
Additional Items					

Note: The foundation walls & footings for the garage and building intersect/overlap in the vicinity of grid 6.6/B. The garage foundation was built prior to the building foundation. Footing, pier & wall reinforcement for the building was drilled & epoxied into the garage foundation as required. See photos.



Photo 1) Garage footing protruding into form for building footing near 6.6/B.



Photo 2) Footing reinforcement, w/ longitudinals drilled & epoxied into garage footing near 6.6/B.



Photo 3) Footing reinforcement near 6.6/B.



Photo 4) Tie-beam reinforcement, shear lug bondout &anchor bolts @ 8/B.



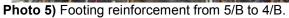




Photo 6) Completed footing from 6/B to 4/B.



Photo 7) Shear lug bondout (foam), anchor bolts & pier reinforcement @ 6/B.



Photo 8) Completed footing near 6.6/B

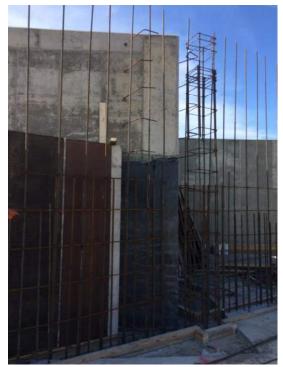




Photo 9) Rebar @ pier & fdn wall intersection Photo 10) Footing & anchor bolts @ B.9 & C/15-15.4

Signed: David A. Macolini, PE



03300 - Concrete

November 23, 2016

Project:	85 Vork St	reet_	Ant 8	Retail Bldg.	ODCEDVATION DEDODT
					OBSERVATION REPORT
Location:	85 York St	., Por	tland,	Maine	Cast in Place Concrete
Becker Job No:	3814.90				
Date: Septem	nber 5 thru 23, 20	016			·
Гіте:					
Temp: warm					
Weather:					
Toutiloi:					
-oundation fros	st walls alon	g Line	es F,	4, 3, stair aı	nd mechanical room.
-oundation fros	st walls alon	g Line	es F,	4, 3, stair a	nd mechanical room.
-oundation fros					
-oundation fros					
-oundation fros			Completed		
-oundation fros	st walls along	Un-Satisfactory iT		4, 3, stair an	
	Satisfactory		Completed		
Reinforcement Siz Quantity	e Satisfactory		Completed		
Reinforcement Siz Quantity Condition	a a satisfactory Satisfactory		Completed		
Reinforcement Siz Quantity Condition Placement	e e Satisfactory		Completed		Comments
Reinforcement Siz Quantity Condition Placement Embed/Anchors	a a satisfactory		Completed		
Reinforcement Siz Quantity Condition Placement	e e Satisfactory		Completed		Comments

Notes:

Bond Beams Additional Items Additional Items

As of the end of September, foundations were substantially complete and structural steel columns were beginning to be erected. Refer to forthcoming reports.

Signed: David Macolini, P.E.



November 23, 2016

Photos



Retaining wall beyond, frostwall front





Typical column pier reinforcing



Column footing reinforcing @ lines F/Y3/1



Wall reinforcing @ line 2 (mech rm)



Forms stripped @ mech room area



ENGINEERI	NG, INC.						
Project Name/Location:	101 York street				Project No:	13-0545.3	
Client/Client's Rep.:	J.B. Brown & Sons	J.B. Brown & Sons				7-13-16	
Concrete Contractor:	Tri stone			;	Sheet:	1 of 1	
Placement Location:	Footing: On G-line between	n 1 and 2-lir	nes		S.W.COLE Re	c. Cromwell	
Weather:	Mid 80s sunny				On Site:	12:00-4:30	
Pre Placement Observations			In Com	pliance	N/O	Comments	
Bar size and location (diamete	r, length, bend and coverage	e)	Yes 🛛	No 🗌		Per Plan	
Splicing (type, overlap)			Yes 🛛	No 🗌		Per Plan	
Stability (wiring, chairs, and sp	acers)		Yes 🛛	No 🗌			
Reinforcement conditions (clear	inliness, temperature etc.)		Yes 🛚	No 🗌		Clean/ambient	
Embedments and anchor bolts	installed		Yes 🛛	No 🗌			
Soil subgrade prepared in acco	ordance with project specific	ations	Yes 🛛	No 🗌			
Referenced Drawings		Date	Page(s)	Rev.	ASTM	GRADE	
Becker- Structural Notes		3-24-16	GS0.01		A 615 🖂	40 🗌 50 🗌 60 🖂	
Becker- Foundation Plan		3-24-16	GS1.01		A 616 A 617	75 🗌	
Becker- Foundation Details		3-24-16	GS2.03		A 706	A 775 Epoxy □	
Concrete Placement Observe	ations		In Comp	liance	N/O	Comments	
Required mix used			Yes 🖂	No 🗌		3,500psi w/air	
Concrete properly conveyed to	all areas of placement		Yes 🖂	No 🗌		Pump	
Internal vibration / consolidatio	n of concrete		Yes 🖂	No 🗌		Mechanical	
Even layering around openings	and embedments		Yes 🖂	No 🗌			
Post placement observations (finishing, curing, etc.)		Yes 🗌	No 🗌	\boxtimes		
Field Testing of Concrete Pe	rformed		Yes 🛚	No 🗌	Loads:	4 Yards:	42
*Cylinder Set Number:	791 – 27		←*refer to a	associate	d concrete test	t report	
Non-Conformance Items Obs	served (person notified)		Yes 🗌	No 🛛			
Notes: S.W.COLE was on site as concrete. Reinforcing appe within project specifications	ared to be consistent wit	` ,	•		•		_

N/O=Not Observed

Attachments: Photos Reviewed By:RED











Project Name/Location:	101 York street			Р	roject No:		13-0545.3	
Client/Client's Rep.:	J.B. Brown & Sons			D	ate:		7-14-16	
Concrete Contractor:	Tri stone	s	heet:		1 of 1			
Placement Location:	Wall: H-line fire wall shelf				.W.COLE Re	р.:	C. Cromwe	ell .
Weather:	80s sunny	On Site:			1:00-3:00			
Pre Placement Observations	<u> </u>		In Comp	liance	N/O		Comment	is
Bar size and location (diamete	r, length, bend and coverage	e)	Yes 🛚	No 🗌		Per	Plan	
Splicing (type, overlap)			Yes 🛛	No 🗌		Per	Plan	
Stability (wiring, chairs, and sp	acers)		Yes 🛚	No 🗌				
Reinforcement conditions (clea	anliness, temperature etc.)		Yes 🖂	No 🗌		Clea	an/ambient	
Embedments and anchor bolts	installed		Yes 🛛	No 🗌				
Soil subgrade prepared in acco	ordance with project specific	ations	Yes 🛛	No 🗌				
Referenced Drawings		Date	Page(s)	Rev.	ASTM		GRADE	
Becker- Structural Notes		3-24-16	GS0.01		A 615 🖂	40 [□ 50 □ 60	
Becker- Foundation Plan		3-24-16	GS1.01		A 616 A 617	75 [
Becker- Foundation Details		3-24-16	GS2.01		A 706	A 77	75 Epoxy 🗌	
Concrete Placement Observa	ations		In Compli	ance	N/O		Comments	;
Required mix used			Yes 🛚	No 🗌		3,500p	osi w/air	
Concrete properly conveyed to	all areas of placement		Yes 🛚	No 🗌		Pump		
Internal vibration / consolidatio	n of concrete		Yes 🛚	No 🗌		Mecha	anical	
Even layering around openings	s and embedments		Yes 🛚	No 🗌				
Post placement observations (finishing, curing, etc.)			No 🗌				
Field Testing of Concrete Pe	rformed		Yes 🛚	No 🗌	Loads:	1	Yards:	4.5
*Cylinder Set Number:	791 – 28				concrete test	report		
Non-Conformance Items Obs	served (person notified)		Yes 🗌	No 🛛				
Notes: S.W.COLE was on site as concrete. Reinforcing appe within project specifications	ared to be consistent wit	, ,	•		-			-
N/O=Not Observed			David	owed De	DED			
Attachments: Photos			Revi	ewed By:	KED			







Project Name/Location:	101 York street	101 York street					13-0545.3	
Client/Client's Rep.:	J.B. Brown & Sons				Date:	•	7-15-16	
Concrete Contractor:	Tri stone				Sheet:	•	1 of 1	
Placement Location:	Keyway Footing on A-line line from A-line to D-line	d 17-	S.W.COLE Rep.:		C. Cromwe	II		
Weather:	80s sunny				On Site:	•	11:30-3:30	
Pre Placement Observation	s		In Comp	liance	N/O		Comment	s
Bar size and location (diameter	er, length, bend and coverage	e)	Yes 🛚	No 🗌		#5's	at 18" O.C	
Splicing (type, overlap)			Yes 🗌	No 🗌	\boxtimes	N/A		
Stability (wiring, chairs, and s	pacers)		Yes 🛛	No 🗌				
Reinforcement conditions (cle	anliness, temperature etc.)		Yes 🛛	No 🗌		Clea	n/ambient	
Embedments and anchor bolt	s installed		Yes 🗌	No 🗌		N/A		
Soil subgrade prepared in acc	cordance with project specific	ations	Yes ⊠	No 🗌				
Referenced Drawings		Date	Page(s)	Rev.	ASTM		GRADE	
Becker- Structural Notes		3-17-16	S0.01		A 615 🖂	40 [50 🗌 60	\boxtimes
Becker- Foundation Plan		3-17-16	S1.01		A 616	75 🗆		
Becker- Foundation Details		3-17-16	S2.01		A 706			
Becker- Foundation Details		3-17-16	S2.02		7			
Concrete Placement Observ	vations		In Compliance		N/O		Comments)
Required mix used				No 🗌	_	•	si w/air	
Concrete properly conveyed t	•			No 🗌	_	Tailgat		
Internal vibration / consolidati				No 🗌		Mecha	nical	
Even layering around opening				No 🗌	□ _			
Post placement observations				No 🗌	Laada:	4	Varda	24
Field Testing of Concrete P				No 🗌	Loads:	-	Yards:	31
*Cylinder Set Number:	791 – 29				l concrete test	report		
Non-Conformance Items Of Notes:	oservea (person notifiea)		Yes 🗌	No 🛛				
S.W.COLE was on site a concrete. Reinforcing appointment within project specification:	eared to be consistent wit	• •	•		•			-
N/O=Not Observed Attachments: Photos			David	ewed By	DED			
ATTACHMENTS: PHOTOS			₽ ₽ \//	ewed Ki	/·KFD			











Project Name/Location:	101 York street				roject No:	13-0545.3
Client/Client's Rep.:	J.B. Brown & Sons		D	ate:	7-25-16	
Concrete Contractor:	Tri stone		S	heet:	1 of 1	
Placement Location:	Footing: on A-line from 11 from A-line to C-line	-line to 17-lir	S	.W.COLE Rep	p.: C. Cromwell	
Weather:	80s sunny					7:00-11:30
Pre Placement Observation	s		In Comp	liance	N/O	Comments
Bar size and location (diameter	er, length, bend and coverage	e)	Yes 🛚	No 🗌		Per plan
Splicing (type, overlap)			Yes 🛚	No 🗌		S2.02
Stability (wiring, chairs, and sp	pacers)		Yes 🛛	No 🗌		Brick
Reinforcement conditions (cle	anliness, temperature etc.)		Yes 🛛	No 🗌		Clean/ambient
Embedments and anchor bolt	s installed		Yes 🗌	No 🗌	\boxtimes	N/A
Soil subgrade prepared in acc	cordance with project specific	ations	Yes 🛛	No 🗌		
Referenced Drawings		Date	Page(s)	Rev.	ASTM	GRADE
Becker- Structural Notes		3-17-16	S0.01		A 615 🖂	40 □ 50 □ 60 ⊠
Becker- Foundation Plan		3-17-16	S1.01		A 616 A 617	75 🗌
Becker- Foundation Details		3-17-16	S2.01		A 706	А 775 Ероху 🗌
Becker- Foundation Details		3-17-16	S2.02			
Becker- Foundation Details		3-17-16	S2.03			
Concrete Placement Observ	vations .		In Compli		N/O	Comments
Required mix used				No 🗌		3,500psi w/air
Concrete properly conveyed to	o all areas of placement			No 🗌		Tailgate
Internal vibration / consolidation				No 🗌		Mechanical
Internal vibration / consolidation	s and embedments		Yes 🗌	No 🗌		iviechanicai
Internal vibration / consolidation Even layering around opening Post placement observations	s and embedments (finishing, curing, etc.)		Yes ☐ Yes ☐	No 🗌 No 🔲		
Internal vibration / consolidation Even layering around opening Post placement observations Field Testing of Concrete Po	gs and embedments (finishing, curing, etc.) erformed		Yes ☐ Yes ☐ Yes ⊠	No 🗌 No 🗍	Loads:	8 Yards: 76
Internal vibration / consolidation Even layering around opening Post placement observations Field Testing of Concrete Po *Cylinder Set Number:	gs and embedments (finishing, curing, etc.) erformed 791 – 30,31		Yes ☐ Yes ☐ Yes ☑ *refer to as	No No No No Sociated		8 Yards: 76
Internal vibration / consolidation Even layering around opening Post placement observations Field Testing of Concrete Post *Cylinder Set Number: Non-Conformance Items Observations Notes: S.W.COLE was on site as concrete. Reinforcing appear within project specifications	gs and embedments (finishing, curing, etc.) erformed 791 – 30,31 pserved (person notified) as scheduled by Opeche eared to be consistent with		Yes ☐ Yes ☐ Yes ☑ ←*refer to as Yes ☐ o perform r	No □ No □ Ssociated No □ einforcin	Loads: concrete test	8 Yards: 76 report ons and field testing of
Internal vibration / consolidation Even layering around opening Post placement observations Field Testing of Concrete Post *Cylinder Set Number: Non-Conformance Items Observations Notes: S.W.COLE was on site at concrete. Reinforcing appears	gs and embedments (finishing, curing, etc.) erformed 791 – 30,31 pserved (person notified) as scheduled by Opeche eared to be consistent with		Yes ☐ Yes ☐ Yes ☑ ←*refer to as Yes ☐ o perform r	No □ No □ Ssociated No □ einforcin	Loads: concrete test	8 Yards: 76 report ons and field testing of











Project Name/Location:	101 York street			P	roject No:	13-0545.3
Client/Client's Rep.:	J.B. Brown & Sons				ate:	8-1-16
Concrete Contractor:	Tri stone				heet:	1 of 1
Placement Location:	Footing: D/17 to G/17 to G/15, A/14 to A/13				.W.COLE Re	p.: A. Boyce
Weather:	70s sunny			0	n Site:	12:00-2:30
Pre Placement Observations			In Compl	iance	N/O	Comments
Bar size and location (diamete	r, length, bend and coverage	e)	Yes 🛛	No 🗌		Per plan
Splicing (type, overlap)			Yes 🛛	No 🗌		S2.02
Stability (wiring, chairs, and sp	acers)		Yes 🛛	No 🗌		Brick
Reinforcement conditions (clear	anliness, temperature etc.)		Yes 🛛	No 🗌		Clean/ambient
Embedments and anchor bolts	installed		Yes 🗌	No 🗌		N/A
Soil subgrade prepared in acco	ordance with project specific	ations	Yes 🛛	No 🗌		
Referenced Drawings		Date	Page(s)	Rev.	ASTM	GRADE
Becker- Structural Notes		3-17-16	S0.01		A 615 🖂	40 □ 50 □ 60 ⊠
Becker- Foundation Plan		3-17-16	S1.01		A 616 🗌 A 617 🔲	75 🗌
Becker- Foundation Details		3-17-16	S2.01		A 706	А 775 Ероху 🗌
Becker- Foundation Details		3-17-16	\$2.02		1	
Becker- Foundation Details		3-17-16	S2.03			
Concrete Placement Observa	ations		In Complia		N/O	Comments
Required mix used				Vo □		3,500psi w/air
Concrete properly conveyed to	·			No 🗌		Tailgate
Internal vibration / consolidatio				No 🗌	_	Mechanical
Even layering around openings	s and embedments		Yes 🔲 🔠	No □	\boxtimes	
D4			Voc □ I		\square	
Post placement observations (finishing, curing, etc.)			No 🗌	N -	4 Varde: 40
Field Testing of Concrete Pe	finishing, curing, etc.)		Yes ⊠ I	No 🗌	Loads:	4 Yards: 40
Field Testing of Concrete Pe *Cylinder Set Number:	finishing, curing, etc.) rformed 791 – 32		Yes ⊠ I ←*refer to as	No □ No □ ssociated		
Field Testing of Concrete Pe	finishing, curing, etc.) rformed 791 – 32 served (person notified) s scheduled by Opeche ared to be consistent with	, ,	Yes	No Sociated No Sociated No Sociated	Loads: concrete test g observation	report ons and field testing of











Project Name/Location:	101 York street			F	Project No:	13-0545.3
Client/Client's Rep.:	J.B. Brown & Sons			Date:	8-17-16	
Concrete Contractor:	Tri Stone			Sheet:	1 of 1	
Placement Location:	Footing: H-line from 1.9 to to A/10 and C/17 to G/17 awall.			S.W.COLE Re	ep.: A. Boyce	
Weather:	80s sunny				On Site:	12:30-4:30
Pre Placement Observations			In Com	pliance	N/O	Comments
Bar size and location (diameter	r, length, bend and coverage	∋)	Yes 🗌	No 🗌	\boxtimes	By C. Cromwell
Splicing (type, overlap)			Yes 🗌	No 🗌	\boxtimes	S.W.COLE Rep
Stability (wiring, chairs, and spa	acers)		Yes 🗌	No 🗌	\boxtimes	
Reinforcement conditions (clear	nliness, temperature etc.)		Yes 🗌	No 🗌	\boxtimes	
Embedments and anchor bolts	installed		Yes 🗌	No 🗌	\boxtimes	
Soil subgrade prepared in acco	ordance with project specific	ations	Yes 🗌	No 🗌	\boxtimes	
Referenced Drawings		Date	Page(s)	Rev.	ASTM	GRADE
Becker- Structural Notes		3-17-16	S0.01		A 615 ⊠	40 □ 50 □ 60 ⊠
Becker- Foundation Plan		3-17-16	S1.01		A 616 A 617	75 🗌
Becker- Foundation Details		3-17-16	S2.01		A 706	A 775 Epoxy □
Becker- Foundation Details		3-17-16	S2.02			
Becker- Foundation Details		3-17-16	S2.03			
Becker- Foundation Details		3-24-16	GS1.01			
Becker- Foundation Details		3-24-16	GS2.01			
Concrete Placement Observa	ations		In Compl		N/O	Comments
Required mix used			Yes ⊠	No 🗌		3500PSI W Air
Concrete properly conveyed to	·		Yes ⊠	No 🗌		Pump
Internal vibration / consolidation			Yes ⊠	No 🗌		Mechanical
Even layering around openings			Yes 🗌	No 🗌		
Post placement observations (f			Yes 🗌	No 🗆		0
Field Testing of Concrete Per			Yes ⊠	No 🗌	Loads:	8 Yards: 80
*Cylinder Set Number:	791 – 35 & 36				concrete tes	t report
Non-Conformance Items Obs	servea (person notified)		Yes 🗌	No 🛛		
Notes: S.W.COLE (CLC) was on Aidan Boyce of S.W.COLE S.W.COLE's departure	-				-	•

Attachments: None Reviewed By: RED



Project Name/Location:	101 York street			F	Project No:	13-0545.3
Client/Client's Rep.:	J.B. Brown & Sons				Date:	8-17-16
Concrete Contractor:	Tri Stone		s	Sheet:	1 of 1	
Placement Location:	Footing: H-line from 1.9 to to A/10 and C/17 to G/17 awall.			s.W.COLE Rep	C. Cromwell	
Weather:	80s sunny			(n Site:	11:30-1:00
Pre Placement Observations			In Comp	liance	N/O	Comments
Bar size and location (diameter	r, length, bend and coverage	e)	Yes 🛚	No 🗌		Per plan
Splicing (type, overlap)			Yes 🛚	No 🗌		S2.02
Stability (wiring, chairs, and spa	acers)		Yes 🛛	No 🗌		Brick/Spacers
Reinforcement conditions (clea	nliness, temperature etc.)		Yes 🛛	No 🗌		Clean/ambient
Embedments and anchor bolts	installed		Yes 🛛	No 🗌		Per Plan
Soil subgrade prepared in acco	ordance with project specific	ations	Yes 🗌	No 🗌	\boxtimes	
Referenced Drawings		Date	Page(s)	Rev.	ASTM	GRADE
Becker- Structural Notes		3-17-16	S0.01		A 615 🖂	40 □ 50 □ 60 ⊠
Becker- Foundation Plan		3-17-16	S1.01		A 616 A 617	75 🗌
Becker- Foundation Details		3-17-16	S2.01		A 706	A 775 Epoxy 🗌
Becker- Foundation Details		3-17-16	S2.02			
Becker- Foundation Details		3-17-16	S2.03			
Becker- Foundation Details		3-24-16	GS1.01			
Becker- Foundation Details		3-24-16	GS2.01			
Concrete Placement Observa	ations		In Compli		N/O	Comments
Required mix used				No 🗌	\boxtimes _	
Concrete properly conveyed to	•			No 🗌		
Internal vibration / consolidation				No 🗌		
Even layering around openings				No 🗌		
Post placement observations (f				No 🗌		
Field Testing of Concrete Per	rformed			No 🛛	Loads:	Yards:
*Cylinder Set Number:					concrete test	report
Non-Conformance Items Obs	servea (person notitied)		Yes 🗌	No 🛛		
Notes: S.W.COLE (CLC) was on observed seemed consiste concrete field testing.			, .		_	<u> </u>

Attachments: Photos Reviewed By: RED











Project Name/Location:	101 York street			F	Project No:	13-0545.3
Client/Client's Rep.:	J.B. Brown & Sons			ate:	8-26-16	
Concrete Contractor:	Tri stone		s	Sheet:	1 of 1	
Placement Location:	Footing: A-line from 9.4 to Walls: H-line from 1 to 2-line 6-line		ine to S	S.W.COLE Re	p.: C. Cromwell	
Weather:	80s sunny				n Site:	10:30-3:30
Pre Placement Observations			In Com	pliance	N/O	Comments
Bar size and location (diamete	r, length, bend and coverage	e)	Yes 🛚	No 🗌		Per plan
Splicing (type, overlap)			Yes 🖂	No 🗌		S2.02
Stability (wiring, chairs, and sp	acers)		Yes 🛚	No 🗌		Brick
Reinforcement conditions (clear	anliness, temperature etc.)		Yes 🛚	No 🗌		Clean/ambient
Embedments and anchor bolts	installed		Yes 🛚	No 🗌		Per plan
Soil subgrade prepared in acco	ordance with project specific	ations	Yes 🛚	No 🗌		
Referenced Drawings		Date	Page(s)	Rev.	ASTM	GRADE
Becker- Structural Notes		3-17-16	S0.01		A 615 ⊠	40 □ 50 □ 60 ⊠
Becker- Foundation Plan		3-17-16	S1.01		A 616	75 🗌
Becker- Foundation Details		3-17-16	S2.01		A 706	A 775 Epoxy □
Becker- Foundation Details		3-17-16	S2.02		1	
Becker- Foundation Details		3-17-16	S2.03		1	
Becker- Foundation Plan		3-24-16	GS1.01		1	
Becker- Foundation Details		3-24-16	GS2.01			
Becker- Foundation Details		3-24-16	GS2.02			
Concrete Placement Observa	ations		In Compl		N/O	Comments
Required mix used			Yes ⊠	No 🗌		3,500psi w/air
Concrete properly conveyed to	•		Yes ⊠	No 🗌		Tailgate
Internal vibration / consolidatio			Yes ⊠	No 🗌	片 -	Mechanical
Even layering around openings			Yes ⊠	No 🗌		
Post placement observations (Yes 🗌	No 🗌		40
Field Testing of Concrete Pe			Yes ⊠	No 🗌	Loads:	13 Yards: 124
*Cylinder Set Number:	791 – 38,39 & 40				concrete test	t report
Non-Conformance Items Obs	served (person notified)		Yes 🗌	No 🛚		
Notes:			_		_	

S.W.COLE was on site as scheduled by Opechee (Dave) to perform reinforcing observations and field testing of concrete. Reinforcing appeared to be consistent with above referenced plans. Concrete field testing indicated mix was within project specifications.

Attachments: Photos Reviewed By: RED











Project Name/Location:	101 York street			P	roject No:		13-0545.3		
Client/Client's Rep.:	J.B. Brown & Sons	D	ate:	_	8-30-16				
Concrete Contractor:	Tri stone	S	heet:	_	1 of 1				
Placement Location:	Footing: Elevator			S	.W.COLE Re	p.:	C. Cromwel	I	
Weather:	80s sunny			0	n Site:	_	12:30-3:30		
Pre Placement Observations			In Comp	liance	N/O		Comments	<u> </u>	
Bar size and location (diameter	, length, bend and coverage	e)	Yes 🛛	No 🗌		Per p	Per plan		
Splicing (type, overlap)			Yes 🛛	No 🗌		S2.02	S2.02		
Stability (wiring, chairs, and spa	acers)		Yes 🛛	No 🗌		Brick	Brick		
Reinforcement conditions (clear	nliness, temperature etc.)		Yes 🖂	No 🗌		Clear	ean/ambient		
Embedments and anchor bolts	installed		Yes 🛚	No 🗌		Per p	lan		
Soil subgrade prepared in acco	rdance with project specific	ations	Yes ⊠	No 🗌					
Referenced Drawings		Date	Page(s)	Rev.	ASTM		GRADE		
Becker- Structural Notes		3-17-16	S0.01		A 615 🖂	40 🗆	50 🗌 60	\boxtimes	
Becker- Foundation Plan		3-17-16	S1.01		A 616 🗌 A 617 🔲	75 🗌]		
Becker- Foundation Details		3-17-16	S2.01		A 706	A 77	75 Epoxy □		
Becker- Foundation Details		3-17-16	S2.02						
Becker- Foundation Details		3-17-16	S2.03						
Concrete Placement Observa	tions		In Compli	ance	N/O	Comments			
Required mix used			_	No 🗌	_	3,500psi w/air			
Concrete properly conveyed to	•			No 🗌		Tailgate			
Internal vibration / consolidation	n of concrete			No 🗌		Mechar	nical		
Even layering around openings	and embedments		· · · · · · · · · · · · · · · · · · ·	No 🗌					
Post placement observations (f	inishing, curing, etc.)			No 🗌	\boxtimes				
Field Testing of Concrete Per				No 🗌	Loads:	2	Yards:	16	
*Cylinder Set Number:	791 – 41		←*refer to associated concrete test report						
Non-Conformance Items Observed (person notified)			Yes 🗌	No 🛛					
Notes: S.W.COLE was on site as scheduled by Opechee (Dave) to perform reinforcing observations and field testing of concrete. Reinforcing appeared to be consistent with above referenced plans. Concrete field testing indicated mix was within project specifications.									
Attachments: None			Reviewed By: RED						

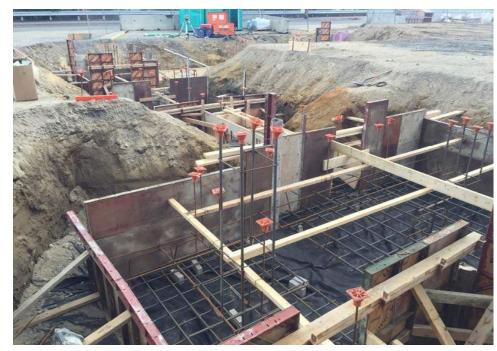


Project Name/Location:	101 York street				Project No:	13-0545.3		
Client/Client's Rep.:	J.B. Brown & Sons		Date:	9-2-16				
Concrete Contractor:	Tri stone		Sheet:	1 of 1				
Placement Location:	Footing: F-line from 4-line F-line, C.1-line from 3-line		S.W.COLE Re	p.: C. Cromwell				
Weather:	to Garage				On Site:	11:00-3:00		
	70s sunny							
Pre Placement Observations			In Comp		N/O	Comments		
Bar size and location (diamete	r, length, bend and coverage)	Yes ⊠	No 🗌		Per plan		
Splicing (type, overlap)	,		Yes ⊠	No 🗌		S2.02		
Stability (wiring, chairs, and sp	•		Yes ⊠	No 🗌		Brick		
Reinforcement conditions (clear			Yes ⊠	No 🗌		Clean/ambient		
Embedments and anchor bolts			Yes ⊠	No 🗌		Per plan		
Soil subgrade prepared in acco	ordance with project specific		Yes ⊠	No 🗌				
Referenced Drawings		Date	Page(s)	Rev	. ASTM	GRADE		
Becker- Structural Notes		3-17-16	S0.01		A 615 ⊠ A 616 □	40 🗌 50 🗌 60 🖂		
Becker- Foundation Plan		3-17-16	S1.01		A 617 □	75 🗌		
Becker- Foundation Details		3-17-16	S2.01		A 706	A 775 Epoxy 🗌		
Becker- Foundation Details		3-17-16	S2.02					
Becker- Foundation Details		3-17-16	S2.03					
Concrete Placement Observ	ations		In Compli		N/O	Comments		
Required mix used				No 🗌		3,500psi w/air		
Concrete properly conveyed to	·			No 🗌		Tailgate		
Internal vibration / consolidatio				No 🗌		Mechanical		
Even layering around openings				No □ No □	□ ⊠ -			
Post placement observations (No 🗌	Loads:	4 Yards: 37		
Field Testing of Concrete Per *Cylinder Set Number:	791 – 42		←*refer to associated concrete test report					
Non-Conformance Items Ob			Yes □ No ⊠					
Notes:	derveu (person nouneu)		100 🗀	110 🖂				
S.W.COLE was on site as scheduled by Opechee (Dave) to perform reinforcing observations and field testing of concrete. Reinforcing appeared to be consistent with above referenced plans. Concrete field testing indicated mix was within project specifications.								
Attachments: Photos			Reviewed By: RED					





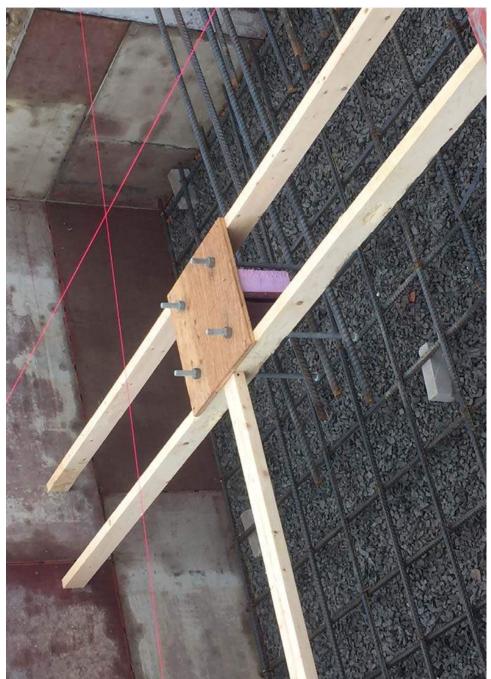






Project Name/Location:	101 York street			Р	roject No:	1	3-0545.3		
Client/Client's Rep.:	J.B. Brown & Sons	D	ate:	9	-6-16				
Concrete Contractor:	Tri stone	s	heet:	1	1 of 1				
Placement Location:	Column Footings: at C/6,0	C/8, C/10, an	d C/12		.W.COLE Re	p. : C	C. Cromwell		
Weather:	70s sunny	c	n Site:	1	12:00-4:15				
Pre Placement Observations			In Comp	oliance	N/O	Comments			
Bar size and location (diameter	, length, bend and coverage	e)	Yes 🛚	No 🗌		Per pla	r plan		
Splicing (type, overlap)			Yes 🛛	No 🗌		S2.02 Brick			
Stability (wiring, chairs, and spa	acers)		Yes 🛚	No 🗌					
Reinforcement conditions (clea	nliness, temperature etc.)		Yes 🛚	No 🗌		Clean/a	ambient		
Embedments and anchor bolts	installed		Yes 🛚	No 🗌		Per pla	ın		
Soil subgrade prepared in acco	ordance with project specific	ations	Yes 🗌	No 🗌	\boxtimes				
Referenced Drawings		Date	Page(s)	Rev.	ASTM		GRADE		
Becker- Structural Notes		3-17-16	S0.01		A 615 🖂	40 🗌	50 🗌 60 🏻	\boxtimes	
Becker- Foundation Plan		3-17-16	S1.01		A 616 ☐ A 617 ☐	75 🗌			
Becker- Foundation Details		3-17-16	S2.01		A 706	A 775	Ероху 🗌		
Becker- Foundation Details		3-17-16	\$2.02						
Becker- Foundation Details		3-17-16	S2.03						
Concrete Placement Observa	ations		In Compl	iance	N/O	С	omments		
Required mix used			Yes 🛚	No 🗌		3,500psi w/air			
Concrete properly conveyed to	all areas of placement		Yes 🖂	No 🗌		Tailgate			
Internal vibration / consolidation	n of concrete		Yes 🖂	No 🗌		Mechanio	cal		
Even layering around openings	and embedments		Yes 🖂	No 🗌					
Post placement observations (f			Yes 🗌	No 🗌	\boxtimes				
Field Testing of Concrete Pe	rformed		Yes 🛚	No 🗌	Loads:		Yards:	44	
*Cylinder Set Number: 791 – 44			←*refer to associated concrete test report						
Non-Conformance Items Observed (person notified)			Yes 🗌	No 🛛					
Notes: S.W.COLE was on site as concrete. Reinforcing appear within project specifications.	ared to be consistent wit	,	ferenced pl	ans. Con	crete field te	esting in	dicated m	ix was	
Attachments: photos			Revi	iewed By	Roger	E 2	Jomes		







Project Name/Location:	101 York street	F	Project No:		13-0545.3				
Client/Client's Rep.:	J.B. Brown & Sons		Date:		9-7-16				
Concrete Contractor:	Tri stone			Sheet:		1 of 1			
Placement Location:	Column Footings: at D/15, from 9.4-line to 4-line	D/13, D/12	and wall on A	-line s	S.W.COLE Re	p.:	C. Cromwell		
Weather:	70s sunny				On Site:	12:30-7:15			
Pre Placement Observations			In Comp	liance	N/O		Comments		
Bar size and location (diameter	r, length, bend and coverage	e)	Yes 🛛	No 🗌		Per	olan		
Splicing (type, overlap)			Yes 🛛	No 🗌		S2.0	2		
Stability (wiring, chairs, and spa	acers)		Yes 🛛	No 🗌		Brick	(
Reinforcement conditions (clea	nliness, temperature etc.)		Yes 🛚	No 🗌		Clea	n/ambient		
Embedments and anchor bolts	installed		Yes 🛚	No 🗌		Per	olan		
Soil subgrade prepared in acco	ordance with project specific	ations	Yes 🗌	No 🗌					
Referenced Drawings		Date	Page(s)	Rev.	ASTM		GRADE		
Becker- Structural Notes		3-17-16	S0.01		A 615 🖂	40 [□ 50 □ 60 ⊠		
Becker- Foundation Plan		3-17-16	S1.01		A 616 A 617	75 []		
Becker- Foundation Details		3-17-16	S2.01		A 706	A 77	775 Ероху 🗌		
Becker- Foundation Details		3-17-16	\$2.02						
Becker- Foundation Details		3-17-16	S2.03						
Concrete Placement Observa	ations		In Compli	ance	N/O		Comments		
Required mix used				No 🗌	_	3,500psi w/air			
Concrete properly conveyed to	all areas of placement			No 🗌		Tailgate			
Internal vibration / consolidation				No 🗌		Mecha	nical		
Even layering around openings	and embedments			No 🗌	_				
Post placement observations (f	inishing, curing, etc.)			No 🗌					
Field Testing of Concrete Per	rformed		Yes 🛚	No 🗌	Loads:	8	Yards: 79		
*Cylinder Set Number:	791 – 45,46		←*refer to associated concrete test report						
Non-Conformance Items Observed (person notified)			Yes 🗌	No 🛛					
Notes: S.W.COLE was on site as scheduled by Opechee (Dave) to perform reinforcing observations and field testing of concrete. Reinforcing appeared to be consistent with above referenced plans. Concrete field testing indicated mix was within project specifications.									
Attachments: photos			Revie	ewed By	. lozu	€ ,	Domey		



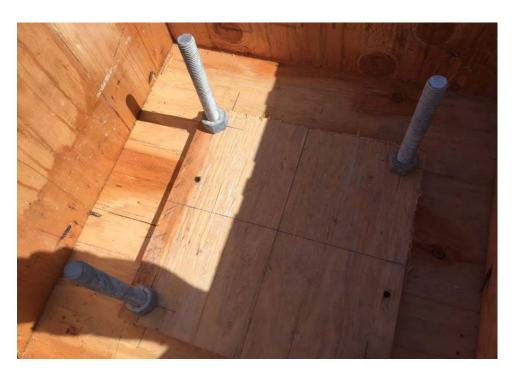








Project Name/Location:	101 York street				Project No:	13-0545.3		
Client/Client's Rep.:	J.B. Brown & Sons		Date:	9-20-16				
Concrete Contractor:	Tri stone		Sheet:	1 of 1				
Placement Location:	Walls: Between Y.1 and Y	.3-lines and	1 and 2-lines		S.W.COLE Rep	c. Cromwell		
Weather:	75°F				On Site:	12:00-5:00		
Pre Placement Observations			In Compl	iance	N/O	Comments		
Bar size and location (diameter	, length, bend and coverage	e)	Yes 🛛	No 🗌		Per plan		
Splicing (type, overlap)			Yes 🛛	No 🗌		S2.02		
Stability (wiring, chairs, and spa	acers)		Yes 🛛	No 🗌		Wire		
Reinforcement conditions (clea	nliness, temperature etc.)		Yes 🛛	No 🗌		Clean/ambient		
Embedments and anchor bolts	installed		Yes 🛛	No 🗌		Per plan		
Soil subgrade prepared in acco	rdance with project specific	ations	Yes 🗌	No 🗌				
Referenced Drawings		Date	Page(s)	Rev	. ASTM	GRADE		
Becker- Structural Notes		3-17-16	S0.01		A 615 🗵	40 🗌 50 🗌 60 🖂		
Becker- Foundation Plan		3-17-16	S1.01		— A 616 □ — A 617 □	75 🗌		
Becker- Foundation Details		3-17-16	S2.01		A 706 □	А 775 Ероху 🗌		
Becker- Foundation Details		3-17-16	S2.02					
Becker- Foundation Details		3-17-16	S2.03					
Concrete Placement Observa	ntions		In Complia	ance	N/O	Comments		
Required mix used				No 🗌		3,500psi w/air		
Concrete properly conveyed to	all areas of placement			No 🗌		Tailgate		
Internal vibration / consolidation				No 🗌		Mechanical		
Even layering around openings				No 🗌				
Post placement observations (f				No 🗌				
Field Testing of Concrete Per	rformed 791 – 48			No 🗌	Loads:	2 Yards: 18		
*Cylinder Set Number:		←*refer to associated concrete test report						
Non-Conformance Items Obs	Yes 🗌 🔝 I	No 🛛						
Notes: S.W.COLE was on site as scheduled by Opechee (Dave) to perform reinforcing observations and field testing of concrete. Reinforcing appeared to be consistent with above referenced plans. Concrete field testing indicated mix was within project specifications.								
Attachments: photos			Revie	ewed E	By: Roger	E Domay		



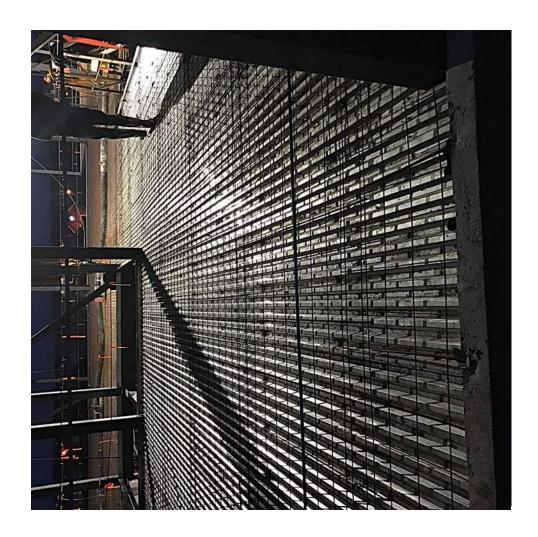








Project Name/Location:	101 York street	101 York street					13-0545.3		
Client/Client's Rep.:	J.B. Brown & Sons	Date:		11-2-16					
Concrete Contractor:	Phinney Concrete	Phinney Concrete					1 of 1		
Placement Location:	Slab on Deck:: 2 nd floor Be 12 and 17-line	etween A-line	e and G-line a	and	S.W.COLE Rep.:		C. Cromwe	əll	
Weather:	50°F				On Site:	On Site: 6:30-10:30			
Pre Placement Observations			In Comp	liance	N/O		Comments		
Bar size and location (diamete	r, length, bend and coverage	e)	Yes 🛚	No 🗌		6X6	6X6-W2.1xW2.1 WWM		
Splicing (type, overlap)			Yes 🛛	No 🗌					
Stability (wiring, chairs, and sp	acers)		Yes 🛛	No 🗌		Wire)		
Reinforcement conditions (clea	anliness, temperature etc.)		Yes 🛚	No 🗌		Clea	Clean/Ambient		
Embedments and anchor bolts	installed		Yes 🗌	No 🗌	\boxtimes	N/A			
Soil subgrade prepared in acco	ordance with project specific	ations	Yes 🗌	No 🗌	\boxtimes	N/A			
Referenced Drawings		Date	Page(s)	Rev	. ASTM		GRADE		
Becker- Structural Notes		3-17-16	S0.01		A 615 🖂	40 [□ 50 □ 60	\boxtimes	
Becker- Foundation Plan		3-17-16	S1.01		A 616 □A 617 □	75 [
Becker- Second Floor Framing	Plan	3-17-16	S3.01		A 706			l	
Concrete Placement Observa	ations		In Compli		N/O		Comment	S	
Required mix used				No 🗌			osi non air		
Concrete properly conveyed to	all areas of placement		Yes 🛚	No 🗌	<u> </u>	Tailga	te		
Internal vibration / consolidatio			Yes 🗌	No 🗌		N/A			
Even layering around openings			Yes 🗌	No 🗌		N/A			
Post placement observations (finishing, curing, etc.)		Yes 🗌	No 🗌	\boxtimes				
Field Testing of Concrete Pe	rformed			No 🗌	Loads:	7	Yards:	70	
*Cylinder Set Number:	791 – 49,50		←*refer to associated concrete test report						
Non-Conformance Items Obs	served (person notified)		Yes 🗌	No 🛛					
Notes: S.W.COLE was on site as scheduled by Opechee to perform reinforcing observations and field testing of concrete. Reinforcing appeared to be consistent with above referenced plans. Concrete field testing indicated mix was within project specifications. A 3500psi non air mix was delivered by Auburn Concrete which is more then the specified 3000psi. Attachments: photos Reviewed By:									
·									





Concrete Construction Observation Report

Client/Client's Rep.: J.B. Brown & Sons Date: 11-7-16 Concrete Contractor: Phinney Concrete Sheet: 1 of 1 Placement Location: Slab on Deck:: 3rd floor Between A-line and G-line and 12 and 17-line S.W.COLE Rep.: C. Cromwell Weather: 50°F On Site: 6:30-10:00 Pre Placement Observations In Complance No General Comments Bar size and location (diameter, length, bend and coverage) Yes No General No General Wire Splicing (type, overlap) Yes No General Wire Wire Stability (wiring, chairs, and spacers) Yes No General Wire Wire Reinforcement conditions (cleanliness, temperature etc.) Yes No General No General Wire Embedments and anchor bolts installed Yes No General No General No General No General Becker- Structural Notes Date Page(s) Rev. ASTM GRADE Becker- Structural Notes 3-17-16 So.01 A 615 A 616 A 617 A 75 D 7	Project Name/Location:	101 York street				Project No:	13-0545.3
Placement Location: Slab on Deck:: 3rd floor Between A-line and G-line a	Client/Client's Rep.:	J.B. Brown & Sons		Date:	11-7-16		
No No No No No No No No	Concrete Contractor:	Phinney Concrete		Sheet:	1 of 1		
N Complance N/O Comments N/O	Placement Location:		etween A-lin	e and G-line	and	S.W.COLE Re	cp.: C. Cromwell
Bar size and location (diameter, length, bend and coverage) Yes	Weather:	50°F				On Site:	6:30-10:00
Splicing (type, overlap) Yes ⋈ No □ Wire Stability (wiring, chairs, and spacers) Yes ⋈ No □ Wire Reinforcement conditions (cleanliness, temperature etc.) Yes ⋈ No □ Clean/Ambient Embedments and anchor bolts installed Yes □ No □ M/A Soil subgrade prepared in accordance with project specifications Yes □ No □ M/A Soil subgrade prepared in accordance with project specifications Yes □ No □ ASTM GRADE Referenced Drawings Date Page(s) Rev. ASTM GRADE Becker- Structural Notes 3-17-16 S0.01 A 615 □ 40 □ 50 □ 60 ⋈ Becker- Foundation Plan 3-17-16 S1.01 A 616 □ 75 □ Becker- Second Floor Framing Plan 3-17-16 S3.01 A 706 □ A 775 Epoxy □ Concrete Placement Observations In Compliance N/O Comments Required mix used Yes ⋈ No □ □ 3,000psi non air Concrete properly conveyed to all areas of placement Yes ⋈ No □ N/A Internal vibration / consolidation of concrete Yes ⋈ No □ N/A	Pre Placement Observations			In Comp	liance	N/O	Comments
Stability (wiring, chairs, and spacers) Reinforcement conditions (cleanliness, temperature etc.) Reinforcement conditions (cleanliness, temperature etc.) Rebedments and anchor bolts installed Yes No	Bar size and location (diameter	r, length, bend and coverage	e)	Yes 🛚	No 🗌		6X6-W2.1xW2.1 WWM
Reinforcement conditions (cleanliness, temperature etc.) Field Testing of Concrete Parameter Conditions (cleanliness, temperature etc.) Yes \ No \ \ No \ \ No \ No \ No \ No \ No	Splicing (type, overlap)			Yes 🛛	No 🗌		
Embedments and anchor bolts installed Yes	Stability (wiring, chairs, and spa	acers)		Yes 🛛	No 🗌		Wire
Soil subgrade prepared in accordance with project specifications Yes □ No □ N/A Referenced Drawings Date Page(s) Rev. ASTM GRADE Becker- Structural Notes 3-17-16 S0.01 A 615 ⋈ A 616 ⋈ A 617 ⋈ A 616 ⋈ A 617 ⋈ A 616 ⋈ A 617 ⋈ A 706 ⋈ A 775 ⋈ W A 616 ⋈ A 617 ⋈ A 706 ⋈ A 775 ⋈ W Becker- Second Floor Framing Plan 3-17-16 S3.01 No ⋈ A 706 ⋈ A 775 ⋈ W A 775 ⋈ W Concrete Placement Observations In Compliance N/O Comments Required mix used Yes ⋈ No ⋈ W 3,000psi non air Tailgate Concrete properly conveyed to all areas of placement Yes ⋈ No ⋈ W N/A N/A Internal vibration / consolidation of concrete Yes ⋈ No ⋈ W N/A N/A Even layering around openings and embedments Yes ⋈ No ⋈ W N/A N/A Post placement observations (finishing, curing, etc.) Yes ⋈ No ⋈ W Loads: 7 Yards: 70 *Cylinder Set Number: 791 – 51,52 C**refer to associated concrete test report	Reinforcement conditions (clea	inliness, temperature etc.)		Yes 🛛	No 🗌		Clean/Ambient
Referenced Drawings Date Page(s) Rev. ASTM GRADE Becker- Structural Notes 3-17-16 S0.01 A 615 ⋈ 40 ⋈ 50 ⋈ 60 ⋈ A 616 ⋈ A 616 ⋈ A 617 ⋈ A 706 ⋈ A 775 Epoxy ⋈ W Becker- Second Floor Framing Plan 3-17-16 S3.01 A 706 ⋈ A 775 Epoxy ⋈ W Concrete Placement Observations In Compliance Yes ⋈ No ⋈ A 706 ⋈ A 775 Epoxy ⋈ W A 705 Epoxy ⋈ W Required mix used Yes ⋈ No ⋈ X Tailgate Concrete properly conveyed to all areas of placement Internal vibration / consolidation of concrete Yes ⋈ No ⋈ X N/A Even layering around openings and embedments Yes ⋈ No ⋈ X N/A Post placement observations (finishing, curing, etc.) Yes ⋈ No ⋈ Loads: 7 Yards: 70 *Cylinder Set Number: 791 – 51,52 €*refer to associated concrete test report	Embedments and anchor bolts	installed		Yes 🗌	No 🗌	\boxtimes	N/A
Becker- Structural Notes Becker- Foundation Plan Becker- Second Floor Framing Plan 3-17-16 S1.01 Becker- Second Floor Framing Plan 3-17-16 S3.01 Concrete Placement Observations Required mix used Concrete properly conveyed to all areas of placement Internal vibration / consolidation of concrete Yes \ No \ No \ Signature Yes \ No \ N	Soil subgrade prepared in acco	Yes 🗌	No 🗌	\boxtimes	N/A		
Becker- Foundation Plan 3-17-16 S1.01 A 617 A 617 A 775 Epoxy Concrete Placement Observations Required mix used Yes No No No Tailgate Concrete properly conveyed to all areas of placement Internal vibration / consolidation of concrete Even layering around openings and embedments Post placement observations (finishing, curing, etc.) Field Testing of Concrete Performed *Cylinder Set Number: 791 – 51,52	Referenced Drawings Date			Page(s)	Rev	. ASTM	GRADE
Becker- Foundation Plan 3-17-16 S1.01 A 617 A 775 Epoxy	Becker- Structural Notes		3-17-16	S0.01			40 □ 50 □ 60 ⊠
Becker- Second Floor Framing Plan 3-17-16 S3.01 In Compliance N/O Comments Required mix used Yes No □ □ 3,000psi non air Tailgate Internal vibration / consolidation of concrete Yes No □ □ N/A Even layering around openings and embedments Post placement observations (finishing, curing, etc.) Field Testing of Concrete Performed *Cylinder Set Number: 791 – 51,52	Becker- Foundation Plan		3-17-16	S1.01		_	75 🗌
Required mix used Yes No Solopsi non air Concrete properly conveyed to all areas of placement Yes No Solopsi non air Tailgate Internal vibration / consolidation of concrete Yes No Solopsi non air Tailgate N/A Even layering around openings and embedments Yes No Solopsi non air Tailgate N/A Post placement observations (finishing, curing, etc.) Yes No Solopsi non air N/A N/A Even layering around openings and embedments Yes No Solopsi non air N/A Post placement observations (finishing, curing, etc.) Field Testing of Concrete Performed Yes No Solopsi non air N/A N/A Post placement observations (finishing, curing, etc.) Field Testing of Concrete Performed Yes No Solopsi non air Tailgate N/A N/A Post placement observations (finishing, curing, etc.) Yes No Solopsi non air	Becker- Second Floor Framing	S3.01		_	А 775 Ероху □		
Concrete properly conveyed to all areas of placement Internal vibration / consolidation of concrete Yes No No NA N/A Even layering around openings and embedments Yes No No NA N/A Post placement observations (finishing, curing, etc.) Field Testing of Concrete Performed Yes No Loads: 7 Yards: 70 *Cylinder Set Number: 791 – 51,52 *refer to associated concrete test report	Concrete Placement Observa	ations		In Compl	iance	N/O	Comments
Internal vibration / consolidation of concrete Yes No No NA Even layering around openings and embedments Yes No No NA N/A Post placement observations (finishing, curing, etc.) Field Testing of Concrete Performed Yes No Loads: 7 Yards: 70 *Cylinder Set Number: 791 – 51,52 **refer to associated concrete test report	Required mix used			Yes 🛚	No 🗌		3,000psi non air
Even layering around openings and embedments Post placement observations (finishing, curing, etc.) Field Testing of Concrete Performed Yes No Decided Set Number: 791 – 51,52 No Decided No Decided Set Number: No Decid	Concrete properly conveyed to	all areas of placement		Yes 🛚	No 🗌		Tailgate
Post placement observations (finishing, curing, etc.) Field Testing of Concrete Performed Yes □ No □ Loads: 7 Yards: 70 *Cylinder Set Number: 791 – 51,52 ★*refer to associated concrete test report	Internal vibration / consolidation			_			
Field Testing of Concrete Performed Yes ☑ No ☐ Loads: 7 Yards: 70 *Cylinder Set Number: 791 – 51,52 **refer to associated concrete test report	Even layering around openings and embedments			Yes 🗌	No 🗌	_	N/A
*Cylinder Set Number: 791 − 51,52	Post placement observations (finishing, curing, etc.)						
	Field Testing of Concrete Performed			Yes 🖂	No 🗌	Loads:	7 Yards: 70
	*Cylinder Set Number:	791 – 51,52				d concrete test	t report
Non-Conformance Items Observed (person notified) Yes No		served (person notified)		Yes 🗌	No 🛚		

S.W.COLE was on site as scheduled by Opechee to perform reinforcing observations and field testing of concrete. Reinforcing appeared to be consistent with above referenced plans. Concrete field testing indicated mix was within project specifications. A 3000psi non air mix was delivered by Hissong with midrange and Masterset.

Reviewed By: KBG Attachments: None

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



Concrete Construction Observation Report

Project Name/Location:	101 York street	Pro		Project No:		13-0545.3		
Client/Client's Rep.:	J.B. Brown & Sons	D	ate:		11-18-16			
Concrete Contractor:	Phinney Concrete		s	heet:		1 of 1		
Placement Location:	Slab on Deck: fifth floor			s	.W.COLE Re	p.: J. Moore		
Weather:	50°F			0	On Site:		7am- 11:30a	am
Pre Placement Observations			In Comp	liance	N/O		Comments	;
Bar size and location (diamete	r, length, bend and coverage	e)	Yes 🛚	No 🗌		Per	Plan	
Splicing (type, overlap)			Yes 🛛	No 🗌				
Stability (wiring, chairs, and sp	acers)		Yes 🛛	No 🗌		Wire)	
Reinforcement conditions (clea	anliness, temperature etc.)		Yes 🛛	No 🗌		Clea	an/Ambient	
Embedments and anchor bolts	installed		Yes 🗌	No 🗌	\boxtimes	N/A		
Soil subgrade prepared in acco	ordance with project specific	ations	Yes 🗌	No 🗌	\boxtimes	N/A		
Referenced Drawings		Date	Page(s)	Rev.	ASTM		GRADE	
Becker- Structural Notes		3-17-16	S0.01		A 615 🖂	40 [□ 50 □ 60 [\boxtimes
Becker- Foundation Plan		3-17-16	S1.01		A 616 A 617	75 [
Becker- Fifth floor framing plan	3-17-16	S3.04		A 706	A 77	75 Epoxy □		
Concrete Placement Observations			In Compliance		N/O		Comments	
Required mix used			Yes 🛚	No 🗌		3,000p	osi non air	
Concrete properly conveyed to all areas of placement			· 	No 🗌		Tailga	te	
Internal vibration / consolidation of concrete				No 🗌		N/A		
Even layering around openings	s and embedments		_	No 🗌	\boxtimes	N/A		
Post placement observations (finishing, curing, etc.)			No 🗌				
Field Testing of Concrete Pe			_	No 🗌	Loads:	7	Yards:	70
*Cylinder Set Number:	791 – 51,52				concrete test	report		
Non-Conformance Items Obs	served (person notified)		Yes 🗌	No 🛛				
Notes: S.W.COLE was on site as Reinforcing appeared to be project specifications. A 30 reported to the supervisor of	e consistent with above 00psi non air mix was d	referenced	l plans. Cor	ncrete fie	eld testing in	ndicat	ed mix was	within
Attachments: None			Revi	ewed By:	RED			

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



CONSTRUCTION OBSERVATION REPORT

Project: Mixed Use Development, York & High Street, Portland, ME S.W.COLE Project No.: 13-0545.3

Client: J.B. Brown & Sons, Inc.

Date: 6/14/16

Client's Rep.: Vin Veroneau Weather: Sunny, 60s

General Contractor/CM: Opechee Construction Corp. /Dave Trottier

Work in Progress: Tristone: Concrete placement footing: Southside of building from Southeast corner to 2-line before spread footing at H/2. Gorham Sand and Gravel, Inc. (GSG) had excavated northeast side of building from northeast corner of parking garage to midway between 1-line and beginning to place ¾-inch stone on top of fabric.

General Observations and Discussions: As requested by Opechee Construction (Dave Trottier) we observed reinforcing steel installation at the current work area and to perform field testing of concrete at the south side of building.

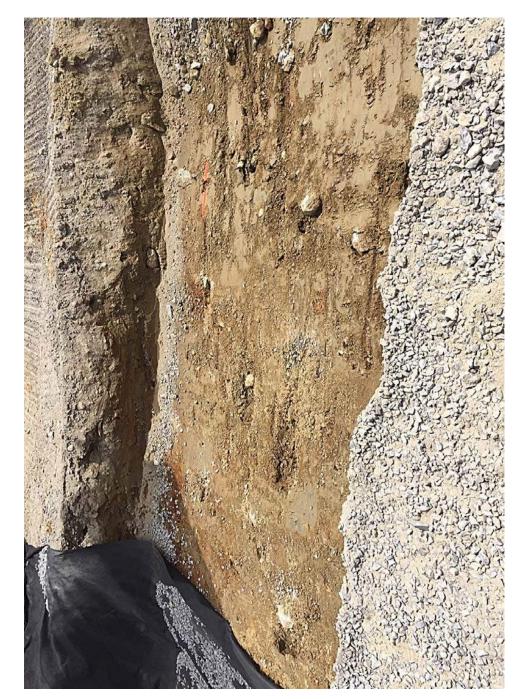
While on-site, Opechee requested we observe GSG preparing footing subgrades at the northeast side of building. Preparations were ongoing and stone and fabric was installed over much of current work area before arrival. Where subgrade was still exposed, soils and conditions appeared consistent with geotechnical findings. Excavation appeared to have been performed with a smooth-edged bucket and relatively undisturbed; exposed subgrade soils consisted of brown silt and sand with some gravel. GSG was installing and compacting at least 6-inches of crushed stone wrapped in non-woven geotextile over the subgrades.

Onsite: 1:00 – 4:00

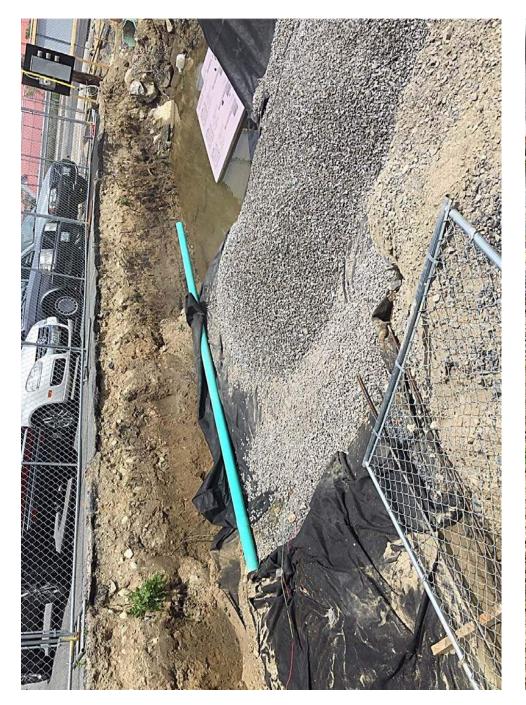
Attachments: Photos S.W.COLE Rep: C. Cromwell

Sheet: 1 of 1 Rev. TJB

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











S.W.COLE Rep: C. Cromwell

CONSTRUCTION OBSERVATION REPORT

Project: Mixed Use Development, York & High Street, Portland, ME S.W.COLE Project No.: 13-0545.3

Client: J.B. Brown & Sons, Inc.

Date: 7/12/16

Client's Rep.: Vin Veroneau Weather: Sunny, 80s

General Contractor/CM: Opechee Construction Corp. /Dave Trottier

Work in Progress: Gorham Sand and Gravel, Inc. (GSG) were in progress of excavating strip footing between 1-line and 2-line on G-line.

General Observations and Discussions:

While on-site, Opechee requested we observe GSG preparing strap footing subgrades between 1-line and 2-line on G-line. Excavation was done with a smooth-edge bucket and was excavated down to bedrock per geotechnical report. The northern side of footing was excavated down approximately 4 feet to get to bedrock. This area was leveled out with rest of footing with ¾ -inch stone that was compacted in 1-foot lifts. Non-woven geotextile fabric was placed down over subgrades and at least 6-inches of ¾ -inch stone was compacted and wrapped in fabric.

Onsite: 8:30 – 11:30 Attachments: Photos

Sheet: 1 of 1 Rev. RED

S W COLE is on-site at the request of our client to provide construction materials testing and to observe and document construction











S.W.COLE Rep: C. Cromwell

CONSTRUCTION OBSERVATION REPORT

Project: Mixed Use Development, York & High Street, Portland, ME S.W.COLE Project No.: 13-0545.3

Client: J.B. Brown & Sons, Inc.

Date: 7/14/16

Client's Rep.: Vin Veroneau Weather: Sunny, 80s

General Contractor/CM: Opechee Construction Corp. /Dave Trottier

Work in Progress: Gorham Sand and Gravel, Inc. (GSG) were in the process of excavating out for keyways on A-line from 9.4-line to 17-line and 17-line from A-line to D-line.

General Observations and Discussions:

While on-site, Opechee requested S.W.COLE observe GSG excavating out for keyways on A-line from 9.4-line to 17-line and 17-line from A-line to D-line. Subgrade was initially dug down to bottom of footing with a smooth-edged bucket and appeared to be relatively undisturbed; exposed subgrade soils consisted of brown silt and sand with some gravel. Keyway was being excavated between Rammed Aggregate Piers (RAPs) and appeared to be relatively dry and undisturbed.

Onsite: 9:00 – 10:30 Attachments: Photos

Sheet: 1 of 1 Rev. RED











S.W.COLE Rep: K. Gimpel

CONSTRUCTION OBSERVATION REPORT

Project: Mixed Use Development, York & High Street, Portland, ME S.W.COLE Project No.: 13-0545.3

Client: J.B. Brown & Sons, Inc.

Date: 8/24/16

Client's Rep.: Vin Veroneau Weather: Sunny, 80s

Work in Progress: Tristone: Installation of formwork and reinforcing steel along A-line of the mixed use building in preparation for tomorrow's concrete placement. Gorham Sand and Gravel, Inc. (GS&G): Excavation for interior spread footings associated with the mixed use building at B.3/15.5, B.3/15.9, C/15, C/15.5 including the elevator between 13 and 14-lines.

General Observations and Discussions: As scheduled by Opechee Construction (Dave), we made a site visit to observe subgrade conditions and preparations in the current work area. At the time of our site visit, GS&G had recently completed excavation for the above referenced foundation elements and was in the process of checking elevations with their GPS prior to completing the required preparations. The excavation had been made with a smooth-edged bucket to help minimize disturbance to the subgrade soils and extended approximately 6 inches below proposed bottom of footings to accommodate the compacted crushed stone layer specified in section 4.3 of the project geotechnical report dated August, 31, 2015. At exposed subgrade, the previously installed rammed aggregate piers were visible and the subgrade soils consisting of relic crushed stone and gray silty sand with gravel were observed to be dry and firm. Subgrade conditions and preparations observed during our visit appeared consistent with our understanding of the expectations and requirements contained in the project documents.

Onsite: 1:00 – 2:00 Attachments: Photo

Sheet: 1 of 1 Rev.: RED





CONSTRUCTION OBSERVATION REPORT

Project: Mixed Use Development, York & High Street, Portland, ME S.W.COLE Project No.: 13-0545.3

Client: J.B. Brown & Sons, Inc.

Client's Rep.: Vin Veroneau

Date: 4/4/16 to 4/8/16

Weather: As noted below

Work in Progress: Helical Drilling, Inc. (HDI) performing rammed aggregate pier (RAP) modulus test and installing production RAPs. H. B. Fleming, Inc. (HBFI) installing soldier pile shoring wall along southwestern slope face.

Work Performed by S.W.COLE Rep.: Observation of RAP modulus test and installation of production RAPs. Observation of installation of soldier pile shoring wall.

General Observations and Discussions:

4/4/16, Clear, 30s, On-site 7:30 – 5:00: HDI performed modulus test on the sacrificial non-production RAP installed on 3/30/16. The modulus test followed the "Geopier Modulus Load Test Schedule" included in the Design Submittal dated March 7, 2016. HDI instrumented the pier with 3 top-of-pier dial gauges and 2 bottom-of-pier dial gauges attached to the tell-tales. An HDI quality control representative was on-site full-time to perform and record the test.

4/5/16, **Clear**, **30s**, **On-site 7:30 – 1:30**: HDI attempted installation of production RAPs in the northwest portion of the site. Due to soft, yielding soils and scheduling conflicts with the site layout crew, installation of RAPs was postponed to the next day. HBFI began installation of soldier piles along the southwestern slope face.

4/6/16, Clear, 30s, On-site 7:00 – 3:00: HDI began installation of production RAPs, generally working in the northern and western portion of the site. 76 RAPs were installed on this date. RAPs 341 to 345 were attempted in the northern portion of the site encountering refusal at the ground surface. The RAP installation generally appeared consistent with the Design Submittal. RAPs 346 and 347 encountered refusal prior to reaching the minimal required depth of 6 feet as per the Design Submittal; RAPs were installed consistent with the Design Submittal and await decision from designer to remain installed or be removed. HDI installed a second sacrificial non-production RAP in the northwest corner of the site. Load test for this sacrificial RAP is scheduled for Monday 4/11/16. An HDI quality control representative was on-site full-time to record the RAP installation. HBFI completed installation of soldier piles along southwestern slope face and began installing wood lagging boards between soldier piles.

4/7/16, Overcast/Rain, 40s, On-site 7:00 – 3:00: HDI resumed installation of production RAPs, generally working in the eastern portion of the site. 136 RAPs were installed on this date. RAPs 127, 129, 139 through 143, 145, 356, 357, 360 through 362, and 365 encountered refusal prior to reaching the minimal required depth of 6 feet as per the Design Submittal; RAPs were installed consistent with the Design Submittal and await decision from designer to remain installed or be removed. An HDI quality control representative was on-site

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



full-time to record the RAP installation. HBFI completed installation of wood lagging boards and began installation of steel beam rakers.

4/8/16, Overcast, 50s, On-site 7:00 – 2:00: HDI prepared the second sacrificial test RAP for load testing scheduled for Monday 4/11/16. HDI resumed installation of production RAPs, generally working in the southern portion of the site. 43 RAPs were installed on this date. An HDI quality control representative was onsite full-time to record the RAP installation. HBFI completed installation of steel beam rakers. The wall was backfilled by Gorham Sand and Gravel.

Attachments: Photos S.W.COLE Rep: T. Demers

Sheet: 1 of 1 Rev. by: TJB/EMW

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



Preparing Test RAP #2



Installing RAPs



CONSTRUCTION OBSERVATION REPORT

Project: Mixed Use Development, York & High Street, Portland, ME S.W.COLE

Client: J.B. Brown & Sons, Inc.
Client's Rep.: Vin Veroneau

S.W.COLE Project No.: 13-0545.3

Date: 4/11/16 to 4/14/16 **Weather:** As noted below

Work in Progress: Helical Drilling, Inc. (HDI) performing rammed aggregate pier (RAP) modulus test and installing production RAPs. Gorham Sand and Gravel, Inc. (GSG) excavating for footings and preparing foundation subgrades.

Work Performed by S.W.COLE Rep.: Observation of RAP modulus test, installation of production RAPs, and foundation subgrades.

General Observations and Discussions:

4/11/16, Overcast/Rain, 40's, On-site 7:30 – 3:00: HDI performed modulus test on the sacrificial non-production RAP installed on 4/6/16. The modulus test followed an accelerated modulus test schedule of load holds with a duration of 1 minute and creep test held at 133% design load for a minimum duration of 60 minutes. HDI instrumented the pier with 3 top-of-pier dial gauges. HDI continued installation of production RAPs, generally working in the southeast and western portions of the site. 49 RAPs were installed on this date. An HDI quality control representative was on-site full-time to perform and record the test, and record RAP installation. GSG excavated for footings along the northern garage perimeter wall, between RAPs 341 and 346. Excavation in this area encountered bedrock at the ground surface from RAPs 341 to 345, transitioning to overburden soils at RAP 346. We recommended that the Geopier designer review the RAP lengths in this transition area per the Geopier design submittal. GSG also performed footing excavations at columns on lines D, E, and F of Sheet GS1.01. Excavations in this area encountered shallow bedrock to depths of approximately 1 to 4 feet below existing ground surface.

4/12/16, Overcast/Rain, 40's, On-site 7:00 – 11:00: HDI continued installation of production RAPs, generally working in the southwestern portion of the site. 27 RAPs were installed on this date. An HDI quality control representative was on-site full-time to record RAP installation. HDI performed probe explorations to refusal at footing locations G/1, G/2, and 10 feet south of RAP 366 in the garage area. GSG performed test pit explorations to refusal at footing locations B/1, B/2, C/1, and C/2 in the garage area. The test pits and probes were performed to obtain information on the transition from RAP ground improvement to bedrock bearing conditions. A table of probe and test pit refusal depths is shown below. Due to portions of the site not yet excavated, scheduled RAPs in the southwestern and southeastern portions of the site were not installed during current mobilization. We understand uninstalled RAPs include numbers 93 to 126, 178, 179, and 274 to 283. We understand HDI will re-mobilize at a later date to install these RAPs.



Probe / Test Pit Location	Refusal Depth (ft)	Approximate Elev. (ft)	Approximate Refusal Elev. (ft)
B-1	2	37	35
B-2	0	36	36
C-1	2	37	35
C-2	0	36	36
G-1	6	29	23
G-2	3.5	29	25.5
10 ft South of RAP 366	3.5	29	25.5

4/14/16, Clear, 50's, On-site 10:00 – 11:45: As requested by Opechee, we made a site visit to observe ongoing foundation subgrade preparation being performed by GSG in the garage area. While on-site, we met with Dave Wajda (Opechee superintendent) and Dustin (GSG foreman). Observations and discussions with Opechee and GSG included:

Observation of perimeter footing subgrade in the northeast corner of the garage where foundation soils had been improved by RAP installation. The exposed subgrade soils (soil matrix between RAPs) consisted of gray silty clay and clayey silt which appeared disturbed and yielding under foot. We recommended the disturbed soils be overexcavated by and replaced with compacted Structural Fill overlying non-woven geotextile prior to placing the planned 6-inches of geotextile wrapped crushed stone.

Observation of northerly perimeter foundation subgrade approximately between lines B and C where subgrades transition from bedrock to soils improved with RAPs. RAPs were not installed in this area, therefore we recommended that the loose overburden soils be removed down to bedrock and backfilled with compacted Structural Fill prior to placing the planned 6-inches of geotextile wrapped crushed stone.

Observation of southerly perimeter foundation subgrade approximately at line D. GSG had placed some fractured bedrock fill to shape subgrade for footing steps. We recommended this fractured bedrock fill be removed down to intact bedrock and replaced with properly compacted Structural Fill prior to placing the planned 6-inches of geotextile wrapped crushed stone.

Observation of bedrock subgrades for interior piers along lines 1 and 2. The subgrades had been hoe-rammed to depth and GSG had placed up to approximately 4 inches of crushed stone to provide a level working surface



on the bedrock. We recommended that GSG limit thickness of crushed stone over interior bedrock subgrades as much as practicable. Excavation for the interior footing at B/1 was being performed while we were onsite and encountered a bedrock surface sloping to the west. Based on measurements by GSG, we understand sound bedrock is about 1 to 1.5 feet below subgrade elevation in the approximate western 1/3 of the footing due to the sloping surface. We recommended that lean concrete with a compressive strength of 3,000 psi be used to backfill to subgrade elevation over the bedrock surface.

We discussed RAP installation and note that some areas of piers will have final lengths shorter than 6 feet. We recommended that the Geopier designers review the pier lengths.

Attachments: Photos S.W.COLE Rep: T. Demers/E. Walker

Sheet: 1 of 1 Rev. by: EMW/RED

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



Excavation Along Northern Perimeter Foundation Between RAPs 341 and 346



Excavation of Footing D/1



Soldier Pile Wall Installed by HBFI



Backfill of Soldier Pile Wall



Disturbed Soils Along Garage Northern Perimeter Foundation Wall to be Overexcavated and Replaced



Fractured Rock Fill Placed Along Garage Southern Perimeter Wall Line to be Removed and Replaced

Project: Apartment and Retail Building Mixed Use Development Date Prepared: March 25, 2016

Structural Schedule of Special Inspections - STEEL CONSTRUCTION

VERIFICATION AND INSPECTION	REQD		COMMENTS	AGENT	AGENT	TASK	
IBC Section 1704.3	Y/N	CONTINUOUS, PERIODIC, SUBMITTAL, OR			QUALIFICATION	COMPLETED	
Material verification of high-strength bolts, nuts		NONE					
and washers:			A 1: 1.1				
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	Y	Р	Applicable ASTM material standards, AISC 360, A3.3	TA1	AWS/AISC-SSI	Yes	
b. Manufacturer's certificate of compliance required.	Y	S		SI1	PE/SE or EIT	Yes	
2. Inspection of high-strength bolting							
a. Snug-tight joints.	Y	P		TA1	AWS/AISC-SSI	Yes	
 b. Pretensioned and slip-critical joints using turn-of-nut with matchmaking, twist-off bolt or direct tension indicator methods of installation. 	Y	P	AISC LRFD Section M2.5	TA1	AWS/AISC-SSI	Yes	
 c. Pretensioned and slip-critical joints using turn-of-nut without matchmaking or calibrated wrench methods of installation. 	Y	C	IBC Sect 1704.3.3	TA1	AWS/AISC-SSI	Yes	
3. Material verification of structural steel and cold-formed steel deck:							
a. For structural steel, identification markings to conform to AISC 360.	N						
 b. For other steel, identification markings to conform to ASTM standards specified in the approved construction documents. 	Y	P	Applicable ASTM material standards	SI1	PE/SE or EIT	Yes	
c. Manufacturer's certified test reports.	Y	S		SII	PE/SE or EIT	Yes	
4. Material verification of weld filler materials:							
a. Identification markings to conform to AWS specification in the approved construction documents.	Y	P	AISC 360, M5.5	TA1	AWS/AISC-SSI	Yes	
b. Manufacturer's certificate of compliance required.	Y	S		SII	PE/SE or EIT	Yes	
5. Submit current AWS D1.1 welder certificate for all field welders who will be welding on this project.	Y	S	AWS D1.1	SI1	PE/SE or EIT	Yes	
6. Inspection of welding (IBC 1704.3.1): a. Structural steel and cold-formed deck:							
Complete and partial joint penetration groove welds.	Y	С		TA1	AWS-CWI	Yes	
2) Multipass fillet welds.	Y	С		TA1	AWS-CWI	Yes	
3) Single-pass fillet welds> 5/16"	Y	С	AWS D1.1	TA1	AWS-CWI	Yes	
4) Plug and slot welds	Y	C	1	TA1	AWS-CWI	Yes	
5) Single-pass fillet welds< 5/16"	Y	P	-	TA1	AWS-CWI	Yes	
6) Floor and deck welds.			AWG D1 2	TA1			
b. Reinforcing steel:	Y	P	AWS D1.3	1711	AWS-CWI	Yes	
Verification of weldability of reinforcing steel other than ASTM A706.	N	-	Not applicable.	-	-		
Reinforcing steel-resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special structural walls of concrete and shear reinforcement.	N						
3) Shear reinforcement.	N		1				
4) Other reinforcing steel.	N		-				
7. Inspection of steel frame joint details for compliance (IBC Sect 1704.3.2) with approved construction documents:							
a. Details such as bracing and stiffening.	Y	P		SI1	PE/SE or EIT	Oct 2016	
b. Member locations.	Y	P	IBC 1704.3.2	SII	PE/SE or EIT	thru	
c. Application of joint details at each connection.			100 1704.3.2		+	Aug 2017	
	Y	P		SI1	PE/SE or EIT	7.49 2017	



OBSERVATION REPORT
Structural Steel

Date:	Jan 2 thru Aug 14, 2017 – 14 visits
Time:	
Temp:	
Weather:	

Project:	85 York Street - Apt & Retail Bldg.
Location:	85 York St., Portland, Maine
Becker Job No:	3623

Observation Location:

Throughout building from line 12 towards garage. Fourteen visits were made during the 8 month period to check structural steel work and confirm completion.

	Satisfactory	Un-Satisfactory	Not Completed	Not Applicable	Comments
Bolt Condition	\boxtimes				
Weld Condition					
Anchor Bolts, Nuts,					
& Washers					
Grout/Leveling Plates	\boxtimes				
Fit Up/Plumbness	\square				
Metal Deck Welds	\square				
Pour Stops	\square				
Bracing					
Additional Items					
Additional Items					

Notes:

Refer to White Engineering inspection reports 5 thru 18.

Structural steel construction substantially conforms to the structural drawings and related shop drawings.

Signed: David Macolini, P.E.



85 York Street Apartment & Retail Building



Structural steel progress towards garage



Exterior wall stud infill



Brick supports & braces @ storefronts



Roof deck & welds to framing



Typical floor deck & welds to framing



Entry canopy roof frame



05120 Steel December 02, 2016

OBSERVATION REPORT
Structural Steel

Date:	October 4 thru Nov 11, 2016
Time:	
Temp:	
Weather:	

Project:	85 York Street - Apt & Retail Bldg.
Location:	85 York St., Portland, Maine
Becker Job No:	3623

Observation Location: West side along High Street (line 17) towards line 8	

	Satisfactory	Un-Satisfactory	Not Completed	Not Applicable	Comments
Bolt Condition	\boxtimes				
Weld Condition					
Anchor Bolts, Nuts, & Washers					
Grout/Leveling Plates					
Fit Up/Plumbness					
Metal Deck Welds					
Pour Stops					
Bracing					
Additional Items					
Additional Items					

Notes:

Signed: David Macolini, P.E.



Photos



Typical grouted column leveling plate



View at corner of High and York Streets



Looking towards High Street



View from 3rd floor towards Line 8



Typical floor deck welds and wire mesh



View at basement stair



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OBSERVATION REPORT
Structural Steel

Date:	Nov. 23, Dec. 8, 20, & 28, 2016
Time:	
Temp:	
Weather:	

						**eautet.		
Project:	85 Yo	rk St	reet -	Apt &	Retail	Blda.		
Location:		85 York Street - Apt & Retail Bldg. 85 York St., Portland, MAine						
Location.	00 10	IK SI	, POI	liano,	MAINE			
Becker Job No:	3623							
Observation Locati	i on: Are	a be	tween	line 1	2 towar	ds line 1 & X4.		
						<u> </u>		

				1				
		Satisfactory	Un-Satisfactory	Not Completed	Not Applicable			
			\supset	Z	Z	Comments		
Bolt Condition		\boxtimes				In progress		
Weld Condition		\boxtimes				In progress		
Anchor Bolts, Nuts, & Washers	[Ш	Ш		Handful remain to be completed and tightened.		
Grout/Leveling Plate	s	\boxtimes				Most complete. Some shear lugs remain to be		
						grouted.		
Fit Up/Plumbness		\boxtimes	Ц_	Щ	Щ	In progress		
Metal Deck Welds			Ц_	Ц	Щ	In progress		
Pour Stops		\boxtimes	Ц_	Щ	Щ	In progress		
Bracing		$oxed{\boxtimes}$	Ц_	Щ	Щ	Most installed. Welds need to be made at several.		
Additional Items					Ш			
Additional Items			Ш	Ш	Ш			
Notes: Refer to photos of Refer to inspection					Engine	ering, LLC		

75 York Street, Portland, Maine 04101 • 207.879.1838 • beckerstructural.com

Signed: David Macolini, P.E.



Photos



Connection plates for canopy.



Progress view.



Brick relieving angle and bolts to be cast-in slab. Decking welds to joists underneath.



Second floor beam connection to column bearing on concrete pilaster.



Recently cast concrete slab on decking.



Floor beam @ column A/12 requires welding to connection plate instead of bolts.



OBSERVATION REPORT
Open Web Steel Joists

Date:	Jan 2 thru March 13, 2017 - 4 visits
Time:	
Temp:	
Weather:	

Project:	85 York Street - Apt. & Retail Bldg.
Location:	85 York St., Portland, Maine
Becker Job No:	3623

Observation Location: Floors and roof from line 12 towards garage.	
Justivation Location. Floors and 1001 from line 12 towards garage.	
3 9	

	_				
	Satisfactory	Un-Satisfactory	Not Completed	Not Applicable	Comments
Seat Connection					
Bridging					
Bracing					
Tie joist Connection					
Additional Items					
Additional Items					

Notes:

Refer to White Engineering inspection reports 5 thru 18. Roof and floor joist and girder construction substantially conforms to the structural drawings and related shop drawings.

Signed: David Macolini, P.E.

Javid A. Mordie.



85 York Street Apartment & Retail Building



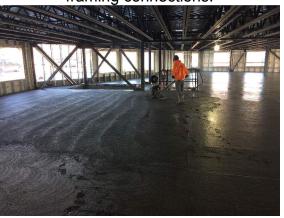
Joist installation progress.



Typical joist girder, beam and joist framing connections.



Roof joists and girder



Floor slab finishing



05200 Steel	joists
December 08,	2016

OBSERVATION REPORT
Open Web Steel Joists

Date:	October 10 thru Nov 11, 2016
Time:	
Temp:	
Weather:	

Project:	85 York S	treet -	Apt. 8	& Reta	ail Bldg.
Location:	85 York S	t., Poi	rtland,	Main	e
Becker Job No:	3623				
Observation Locati	ion: West s	ide al	ong Hi	gh Str	eet towards Line 8.
					. ****
					· ·
	Satisfactory	Un-Satisfactory	Not Completed	Not Applicable	Comments
Seat Connection					Work in progress
Bridging					In progress
Bracing					In progress
Tie joist Connection					In progress
Additional Items					

Notes:

Additional Items

Bottom chords at a number of joist girders have one piece of the double angle removed to facilitate installation due to the stabilizer plate below the connection seat (see 4th photo on page 2). We recommend welding the cut-off piece of angle back into position at roof joists because of wind uplift forces on the roof.

Signed:	David Macolini, P.E.	
		•



Photos



Typical 2nd & 3rd floor joists and girders.



2nd & 3rd floor joists & girders progressed from Line 17 (High Street) to line 12.



View of progress



Typical joist girder seat connection.



Joist girder chord angle cut to allow installation. Piece to be welded back @ roof joist girders.



View looking out towards Line 8.



05200 Steel	joists
December 28,	2016

OBSERVATION REPORT
Open Web Steel Joists

Date:	Nov. 23, Dec. 8, 20, & 28, 2016
Time:	
Temp:	
Weather:	

Project:	85 York S	treet -	Apt. 8	& Reta	ail Bldg.
Location:	85 York St., Portland, Maine				
Becker Job No:	3623				
Observation Locati	on: Area be	etween	line 1	2 towa	ards line 1 & X4.
Seat Connection Bridging Bracing Tie joist Connection Additional Items Additional Items	□ □ ⊠ ⊠ Satisfactory	□□□□□ Un-Satisfactory	□□□□ Not Completed	□□□□ Not Applicable	Comments In progress In progress In progress In progress
Notes: Refer to photos o	on reports	by W		Engin	neering, LLC.



Photos



Joists and joist girders.



Joists bearing on and welded to girder.



Joist and decking.



Roof joist girder connection to column.



Fifth floor joist and roof joists above prior to placement.



View of progress.

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Client: S.W. Cole Engineering, Inc.

Project: Mixed Use Development

Report: 005

SWCE Project #: 13-05545.3

Date: October 5, 2016

Subject: Structural Steel Site Inspection

The contractor and erector were concerned regarding the quality of shop welds observed on members being received at the site. As requested, on this date we performed a visual inspection of shop welded connections on members presently on site.

Inspections were performed using Bonardi Steel, LLC shop drawings supplemented by structural design drawings as reference.

Numerous members were found to have unacceptable welds per AWS D1.1 visual acceptance criteria. Additionally, numerous welds were found to be missing. The attached inspection list notes members containing unacceptable welds and the discrepancies which were observed.

One discrepancy observed was incorrect welds used on shear lugs on the bottom of the column base plates at the brace frames. Per structural design drawing (S4.03) and shop detail drawings these shear lugs are to be welded using CJP welds. All columns with these lugs located at the site not yet erected, appear to have 3/8" PJP groove welds on two sides of the shear lug rather than the CJP weld required. Four of these columns have been erected and shear lugs are no longer accessible.

We marked all unacceptable and missing welds noted at this time and informed the project superintendent as well as the erector foreman of the discrepancies.

Inspector; Michael Bump

CWI#07091231

Project: Mixed Use Development Page: 1 of 1 **Report:** 005

Date: October 5, 2016

Location: York St. Portland, ME

Piece mark	Qty	NDT	Accept	Reject	Comments
B18	1			X	Missing welds
B114	1			X	Missing welds
B100	1			X	Undersized welds
B24	2			X	Missing welds
B40	1			X	Undercut
B76	1			X	Missing welds
B17	1			X	Porosity & Undercut
B???	1			X	Undercut
B110	1			X	Porosity, Undercut, Undersized welds
B58	1			X	HSS members @ top to be welded continuously
B124	1			X	HSS members @ top to be welded continuously
B125	1			X	HSS members @ top to be welded continuously
C26	1			X	Undercut
C16	1			X	Undersized welds
C25	1			X	Missing weld
C23	1			X	Undersized welds
C27	1			X	Undersized welds
C92	1			X	Missing weld & shear lug needs CJP
C73	1			X	Missing weld & shear lug needs CJP
C24	1			X	Undercut
B123	1			X	Missing weld

Remarks: Four columns are erected and have shear lugs requiring CJP welds. These columns are not listed above. See comments in narrative report.

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Tel. 603-383-9347 Fax. 603-383-8262

Client: S.W. Cole Engineering, Inc. Report: 006

Project: Mixed Use Development **SWCE Project #:** 13-0545.3 **Date:** October 11, 2016

Subject: Structural Steel Site Inspection

We visited the site on this date as requested to continue structural steel inspections on the Main Building of the Mixed Use Development project located at York St. and High St. in Portland, ME. Upon arrival we met with the project superintendent for Opechee Construction. Inspected at this time were lines 15 to 17. Our action and observations were as follows:

- Welder certifications were provided for personnel used on this project.
- Second and third floor framing was inspected for conformance to drawings and details.
- Welding of joists and joist bridging was inspected.
- Additional weld was added to the shear lug on the bottom of the gusset plate assembly at A/15. The weld was found to be of sufficient size (5/8 fillet weld) according to an E-mail provided by Becker Engineering. The weld quality was acceptable.

All inspections performed above appeared acceptable in accordance to AWS, AISC, RCSC, SJI and contract documents except the following work needs to be completed:

- 1. All kicker angles need to be added.
- 2. Joist termination angles need to be added at the foundation wall.
- 3. Column bracing to joists to be added as required per typical detail on S4.03.
- 4. "X" bridging was shown on structural drawings S3.01 to S3.05 however none are shown on Nucor joist drawings J1 to J10. The project superintendent will verify whether the bridging is required or not.

The project superintendent and erector foreman were notified of our findings.

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Tel. 603-383-9347 Fax. 603-383-8262

Client: S.W. Cole Engineering, Inc. Report: 007

Project: Mixed Use Development SWCE Project #: 13-0545.3 Date: October 24, 2016

Subject: Structural Steel Site Inspection

We visited the site on this date as requested to continue structural steel inspections on the Main Building of the Mixed Use Development project located at York St. and High St. in Portland, ME. Upon arrival we met with the project superintendent for Opechee Construction. Inspected at this time were lines 13 to 17. Our action and observations were as follows:

- Second and third floor framing were inspected for overall conformance to drawings and details.
- Welding of the joists and joist bridging at the 2nd and 3rd floor framing was inspected.
- Columns were inspected for plumb and properly tightened anchor rod nuts. Grout is still to be added where required.
- Final tightening of the 2nd and 3rd floor bolted connections was still in progress.
- Welding of lower ends of the HSS braces was partially complete from grade to the 3rd floor framing and visual inspections were performed. Locations inspected and found acceptable were marked with "wok"
- The 2nd floor form deck was approximately 70% welded at this time. We inspected areas completed and work appears to be acceptable. Side lap screws need to be added.
- The 3rd floor form deck was approximately 50% welded and screwed. We inspected the areas completed and work appears to be acceptable.
- We performed random visual inspections on fabricated steel stored at the site. One weld
 was found to have excessive porosity. HSS deck supports on brace beams were not
 welded the entire length as required and shear lugs on column base pates were not welded
 with CJP welds as shown on structural and shop drawings. No other discrepancies were
 noted.

With the exception of shop welds, all inspections performed above appeared acceptable in accordance to AWS, AISC, RCSC, SJI and contract documents except the following work needs to be completed:

- 1. All kicker angles need to be added.
- 2. One HSS member needs to be added between the 2nd and 3rd floor framing on line C between 15 and 15.4.
- 3. Column bracing to joists to be added as required per typical detail on S4.03.

The project superintendent and erector foreman were notified of our findings.

Inspector; Michael Bump

CWI#07091231

nealjwhite@gmail.com

Tel. 603-383-9347 Fax. 603-383-8262

Client: S.W. Cole Engineering, Inc. Report: 008

Project: Mixed Use Development SWCE Project #: 13-05545.3 Date: November 1, 2016

Subject: Structural Steel Site Inspection

We visited the site on this date as requested to continue structural steel inspections on the Main Building of the Mixed Use Development project located at York St. and High St. in Portland, ME. Upon arrival we met with the project superintendent for Opechee Construction. Inspected at this time were lines 12 to 17. Our action and observations were as follows:

- Layout welding and fastening of the 2nd floor form deck was complete and inspected.
- Welding of all HSS braces from grade to the 3rd floor framing was visually inspected. The missing member between the 2nd and 3rd floors on line C was added and welded.
- Columns were inspected for proper bearing and properly tightened anchor rod nuts. Grout still needs to be added under column base plates.

All inspections performed above appeared acceptable in accordance to AWS, AISC, RCSC and contract documents except the following work needs to be completed:

1. Anchor rod nuts need to be tightened at E/12.5 and E/13.

The project superintendent and erector foreman were notified of our findings.

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Client: S.W. Cole Engineering, Inc. Report: 009

Project: Mixed Use Development **SWCE Project #:** 13-05545.3 **Date:** November 3, 2016

Subject: Structural Steel Site Inspection

We visited the site on this date as requested to continue structural steel inspections on the Main Building of the Mixed Use Development project located at York St. and High St. in Portland, ME. Upon arrival we met with the project superintendent for Opechee Construction. Inspected at this time were lines 12 to 17. Our action and observations were as follows:

- Layout welding and fastening of the 3rd floor form deck were complete and inspected.
- Welding of lower ends of the HSS braces from level 3 to level 4 was visually inspected. Upper ends were not welded at this time.

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

The project superintendent and erector foreman were notified of our findings.

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Tel. 603-383-9347 Fax. 603-383-8262

Client: S.W. Cole Engineering, Inc. Report: 010

Project: Mixed Use Development **SWCE Project #:** 13-0545.3 **Date:** November 15, 2016

Subject: Structural Steel Site Inspection

We visited the site on this date as requested to continue structural steel inspections on the Main Building of the Mixed Use Development project located at York St. and High St. in Portland, ME. Upon arrival we met with the project superintendent for Opechee Construction. Inspected at this time were lines 12 to 17. Our actions and observations were as follows:

- Welding of the joists and bridging at the 4th and 5th floor framing was inspected.
- Welding of the upper ends of the HSS bracing between the 3rd and 4th floors was visually inspected.
- Welding of the lower ends of the HSS bracing between the 4th floor and the roof was in progress. Completed members were inspected and marked "wok".
- Welding of the HSS column splices at the 3rd floor was visually inspected.
- Layout, welding and fastening of the 4th floor form deck was inspected.
- Layout and welding of the 5th floor form deck was approximately 75% complete and fastening of the deck was approximately 50% complete. Inspections were performed on areas completed.
- Bolted connections on the 4th and 5th floors need to be tightened.

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

The project superintendent and erector foreman were notified of our findings.

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Tel. 603-383-9347 Fax. 603-383-8262

Client: S.W. Cole Engineering, Inc. Report: 011

Project: Mixed Use Development **SWCE Project #:** 13-0545.3

Date: December 5, 2016

Subject: Structural Steel Site Inspection

We visited the site on this date as requested to continue structural steel inspections on the Main Building of the Mixed Use Development project located at York St. and High St. in Portland, ME. Upon arrival we met with the project superintendent for Opechee Construction. Inspected at this time were lines 12 to 17. Our action and observations were as follows:

- All bolted connections were inspected from the 2nd Floor to the Roof framing.
- Kicker angles for brick façade supports were installed and welded at the 3rd floor framing. The kicker angles need to be anchored to the slab above.
- Welding of the upper ends of the HSS bracing between the 3rd and 4th floor framing was visually inspected.
- HSS 2.5x2.5 deck support members only need to be welded with intermittent welds 12" on center not continuous as shown on design and detail drawings. The intermittent welds were approved by Becker Engineering.
- Welding of the 2nd Floor joist and joist bridging was inspected from lines 6 to 12.
- Layout welding and fastening of the 2nd Floor form deck were inspected from line 6 to 12.
- Welding of the lower ends of the HSS bracing at the 2nd Floor was in progress. Visual inspections were performed on completed welds.

All inspections performed above appeared to be acceptable in accordance to AWS, AISC, RCSC, SJI and contract documents except as noted below:

- 1. Several connections were found to have loose bolts on each level.
- 2. Installation of the kicker angles needs to be completed at the 2nd, 4th, and 5th floors.
- 3. Welding of the HSS bracing from the 4th floor to the Roof needs to be completed.
- 4. Anchor rod nuts are still loose at E/12.5.
- 5. Column lateral support bracing needs to be added as required.
- 6. Several puddle welds and side lap screws were found to be missing on the 2nd Floor deck.
- 7. Lower ends of the remainder of the HSS bracing needs to be welded at the 2nd floor between 6 and 12.
- 8. Bolts that will be poured in concrete need to be properly tightened on the gusset plates at the 2nd Floor framing from line 6 to 12.

The project superintendent and erector foreman were notified of our findings.

nealjwhite@gmail.com

Tel. 603-383-9347 Fax. 603-383-8262

Client: S.W. Cole Engineering, Inc. Report: 012

Project: Mixed Use Development SWCE Project #: 13-0545.3

Date: December 20, 2016

Subject: Structural Steel Site Inspection

We visited the site on this date as requested to continue structural steel inspections on the Main Building of the Mixed Use Development project located at York St. and High St. in Portland, ME. Upon arrival we met with the project superintendent for Opechee Construction. Our action and observations were as follows:

- Columns were inspected for plumb, proper bearing and properly tightened anchor rod nuts from lines 6 to 12.
- Welding of the lower ends of the HSS bracing at the 2nd and 3rd Floor framing was completed from lines 6 to 12. All welds not previously inspected were visually inspected.
- Bolted connections at the 3rd Floor framing were inspected from lines 6 to 12. Connections were not tightened at the 2nd Floor framing at this time.
- Welding of the joists and joist bridging at the 3rd Floor framing was inspected from lines 6 to 12.
- Layout, welding and fastening of the 3rd Floor form deck was inspected from lines 8 to
- Welding of the column lateral support bracing was inspected at the 2nd and 3rd Floors from lines 6 to 12.
- Visual inspections were performed on column splices at the 3rd Floor from lines 8 to 12.
- Layout, welding and fastening of the roof deck was inspected from lines 11 to 17.
- Loose anchor rod nuts were tightened at E/12.5.

All inspections performed above appeared to be acceptable in accordance to AWS, AISC, RCSC, SJI and contract documents except as noted below:

- 1. Loose bolts were found at the 3rd Floor framing.
- 2. Some joists were found to have missing welds.
- 3. One bolted connection on the 3rd Floor at A/12 has misaligned bolt holes. A repair procedure will be required.
- 4. Some missing side lap screws were noted on the 3rd Floor form deck.
- 5. Some missing welds and side lap screws were noted on the roof deck.

The project superintendent and erector foreman were notified of our findings.

Inspector; Michael Bump

CWI#07091231

nealjwhite@gmail.com

Tel. 603-383-9347 Fax. 603-383-8262

Client: S.W. Cole Engineering, Inc. Report: 013

Project: Mixed Use Development **SWCE Project #:** 13-0545.3

Date: January 4, 2017

Subject: Structural Steel Site Inspection

We visited the site on this date as requested to continue structural steel inspections on the Main Building of the Mixed Use Development project located at York St. and High St. in Portland, ME. Upon arrival we met with the project superintendent for Opechee Construction. Our action and observations were as follows:

- Layout, welding and fastening of the roof deck were inspected from lines 6.6 to 11.
- All previously reported missing screws and welds on the roof deck between lines 11 and 17 were added.

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

The project superintendent and erector foreman were notified of our findings.

nealjwhite@gmail.com

Tel. 603-383-9347 Fax. 603-383-8262

Client: S.W. Cole Engineering, Inc. Report: 014

Project: Mixed Use Development **SWCE Project #:** 13-0545.3

Date: January 18, 2017

Subject: Structural Steel Site Inspection

We visited the site on this date as requested to continue structural steel inspections on the Main Building of the Mixed Use Development project located at York St. and High St. in Portland, ME. Upon arrival we met with the project superintendent for Opechee Construction. Our actions and observations were as follows:

- Layout, welding and fastening of the roof deck were inspected from lines 4 to 6.6.
- While on site we performed a walk-through inspection between lines 12 and 17 with the EOR and erector foreman to discuss outstanding discrepancies as well as some required repairs.

All inspections performed above appeared acceptable in accordance to AWS and contract documents except as noted below:

1. Missing deck screws were noted adjacent to lines B and F.

The project superintendent and erector foreman were notified of our findings.

nealjwhite@gmail.com

Tel. 603-383-9347 Fax. 603-383-8262

Client: S.W. Cole Engineering, Inc. Report: 015

Project: Mixed Use Development **SWCE Project #:** 13-0545.3

Date: January 25, 2017

Subject: Structural Steel Site Inspection

We visited the site on this date as requested to continue structural steel inspections on the Main Building of the Mixed Use Development project located at York St. and High St. in Portland, ME. Upon arrival we met with the project superintendent for Opechee Construction. Our action and observations were as follows:

- Layout, welding and fastening of the form deck was inspected in the following areas:

 - 2nd Floor from line 6 to X4.
 3rd and 4th Floors from line 12 to X4.
 - o 5th Floor from line 4 to 12.
- Bolted connections were inspected in the following areas:
 - o 2nd and 3rd Floors from line 6 to X4.
 - o 4th and 5th Floors from line 12 to X4.
 - o Roof from line 4 to 12.
- Welding of joists and joist bridging was inspected in the following areas:

 - 2nd and 3rd Floors from line 6 to X4.
 4th and 5th Floors from line 12 to X4.
 - o Roof framing from line 4 to 12.
- Welding of the HSS column splices at the 3rd Floor was inspected from line 6 to X4.
- Welding of HSS brace frames was in progress at all floors.
- Installation of façade kicker angles and column braces was in progress.
- All loose bolts previously reported between lines 17 and 12 have been tightened. The misaligned bolted connection on the 3rd Floor at A/12 still needs to be field welded.
- All previously reported missing welds on the HSS bracing between lines 12 and 17 were added and visually inspected.
- All missing deck screws previously reported at the Roof framing between lines 4 and 6.6 were added.
- Welded connections between the precast double tees and the concrete walls in the parking garage not previously inspected were visually inspected.

All inspections performed above appeared complete and acceptable in accordance to AWS, AISC, RCSC, SJI and contract documents with the following comments:

- 1. Bolted connections around the stair support framing still need to be tightened.
- 2. Welding of the joist girders to the columns was in progress.
- 3. Column splices at the stair support framing still need to be welded.

The project superintendent and erector foreman were notified of our findings.

nealjwhite@gmail.com

Tel. 603-383-9347 Fax. 603-383-8262

Client: S.W. Cole Engineering, Inc. Report: 016

Project: Mixed Use Development **SWCE Project #:** 13-0545.3

Date: February 15, 2017

Subject: Structural Steel Site Inspection

We visited the site on this date as requested to continue structural steel inspections on the Main Building of the Mixed Use Development project located at York St. and High St. in Portland, ME. Upon arrival we met with the project superintendent for Opechee Construction. Our action and observations were as follows:

- All joists on the 2nd and 3rd Floor framing previously reported as having missing welds were welded. Visual inspections were performed on the welds.
- Welding of the HSS brace frames between the 2nd and 3rd Floors was visually inspected.
- Welding of all joist girders to HSS columns was inspected.
- Welding of the joists on the Roof framing was inspected from line 4 to X4.
- Layout, welding and fastening of the Roof deck were inspected from line 6.6 to X4.
- Welding of brick façade support kicker angles was inspected from the 2nd and 5th Floors.

All inspections performed above appeared acceptable in accordance to AWS, AISC, RCSC, SJI and contract documents except as noted below:

- 1. Weld was found to be missing on the upper end of one HSS brace along line F between the 2^{nd} and 3^{rd} Floors.
- 2. Two kicker angles need to be added at the 3rd Floor along line F.
- 3. Several kicker angles need to be anchored to the form deck from the 3rd and 5th Floors.

The following items still need to be completed:

- 1. Welds were found to be missing at the upper ends of two HSS brace members between the 3rd and 4th Floors along line 10.
- 2. The moment connections on the 3rd Floor framing at A/14 and A/15.4 need to be welded.
- 3. The misaligned bolt holes on the 3^{rd} Floor framing at A/12 still needs to be repaired.
- 4. Complete welding of HSS brace frames between the 3rd Floor and Roof framing.
- 5. Bolted connections around the stair support framing near line 4 still needs to be tightened.
- 6. Column splices at the stair support framing near line 4 still need to be welded.
- 7. Shear plates were found to be missing between the HSS column and the brace frame gusset plates at B/9.4 at the 4th and 5th Floors. See the picture below.
- 8. Finish joist bridging at the Roof framing from line 4 to X4.
- 9. Complete welding of HSS brace frames from grade to 2nd Floor.
- 10. Bolted moment connections on the 2nd Floor framing at E/12.5 and E/13 need to be welded in lieu of bolting.
- 11. Complete column braces as required.

The project superintendent was notified of our findings.



Missing Shear Connection

nealjwhite@gmail.com

Tel. 603-383-9347 Fax. 603-383-8262

Client: S.W. Cole Engineering, Inc. Report: 017

Project: Mixed Use Development **SWCE Project #:** 13-0545.3

Date: March 24, 2017

Subject: Structural Steel Site Inspection

Verified complete by BSE April, 2017

and/or WE,LLC (report 18)

We visited the site on this date as requested to continue structural steel inspections on the Main Building of the Mixed Use Development project located at York St. and High St. in Portland, ME. Upon arrival we met with the project superintendent for Opechee Construction. The focus of this inspection was to review outstanding discrepancies and work not completed as of 2/15/2017. Our action and observations were as follows:

- 1. Weld was found to be missing on the upper end of one HSS brace along line F between the 2nd and 3rd Floors. *Welds were added and visually inspected*.
- 2. Two kicker angles need to be added at the 3rd Floor along line F. *Not yet complete*.
- 3. Several kicker angles need to be anchored to the form deck from the 3rd and 5th Floors. *Third and fifth floors complete.* **4**th *Floor to be completed.*
- 4. Welds were found to be missing at the upper ends of two HSS brace members between the 3rd and 4th Floors along line 10. *Welds were added and visually inspected*.
- 5. The moment connections on the 3rd Floor framing at A/14 and A/15.4 need to be welded. *Not yet complete.*
- 6. The misaligned bolt holes on the 3rd Floor framing at A/12 still needs to be repaired. *Connection was field welded as directed by Becker Engineering. Visual inspections were performed.*
- 7. Complete welding of HSS brace frames between the 3rd Floor and Roof framing. *All welds were completed and visually inspected.*
- 8. Bolted connections around the stair support framing near line 4 still needs to be tightened. *All bolted connections were properly tightened*.
- 9. Column splices at the stair support framing near line 4 still need to be welded. *Splices were welded and visually inspected*.
- 10. Shear plates were found to be missing between the HSS column and the brace frame gusset plates at B/9.4 at the 4th and 5th Floors. *Plate was added and inspected at the 4th Floor.* 5th Floor not complete.
- 11. Finish joist bridging at the Roof framing from line 4 to X4. *Bridging was completed*.
- 12. Complete welding of HSS brace frames from grade to 2nd Floor. Bracing was welded. Angles were added in locations where the gusset plates along line A did not make contact to the embed plate as directed by Becker Engineering. Embed plates were extended as required in accordance to the Becker Engineering sketch dated 1/17/17. The bracing at A/15 still needs to be welded.
- 13. Bolted moment connections on the 2nd Floor framing at E/12.5 and E/13 need to be welded in lieu of bolting. *The connection was welded per Becker Engineering sketch dated 1/27/17. Visual inspections were performed on the welds.*
- 14. Complete column braces as required. Column braces need to be added from the 2nd Floor to the 5th Floor between lines 13 and 17.

Items which were corrected or completed were found acceptable. Outstanding items will be reinspected upon completion.

The project superintendent and erector foreman were n	otified of our findings.
	Inspector; Michael Bump
	CWI#07091231

WHITE ENGINEERING, LLC

nealjwhite@gmail.com

P.O. Box 878 Glen, N.H. 03838

Tel. 603-383-9347 Fax. 603-383-8262

Report: 018

Client: S.W. Cole Engineering, Inc. Project: Mixed Use Development SWCE Project #: 13-05545.3

Date: April 24, 2017

Subject: Structural Steel Site Inspection

We visited the site on this date as requested to continue structural steel inspections on the Main Building of the Mixed Use Development project located at York St. and High St. in Portland, ME. Upon arrival we met with the project superintendent for Opechee Construction. The focus of this inspection was to review open discrepancies and work not completed as of our previous visit on 3/24/2017. Our action and observations were as follows:

- Kicker angles (items 2 and 3) were inspected at all floors in all locations that were accessible at this time. Except as noted below all angles appeared to have been installed and anchored. We were informed that all kicker angles not accessible at this time were inspected by the EOR during a previous site visit.
- The moment connections on the 3rd Floor framing at A/14 and A/15.4 (item 5) were welded. Visual inspections were performed on the welds.
- A shear plate was added to the HSS column and the brace frame gusset plates at B/9.4 at the 5th Floor (item 10). Visual inspections were performed on the welds.
- The HSS bracing at A/15 in the basement still needs to be welded. It was noted by the Engineer during a site visit that one weld was missing on the lower end of the HSS brace at X4/Y2 in the basement. The missing weld on the exterior side of the brace was no longer accessible. It was agreed upon by the engineer that the weld on the interior could be increased in size to replace the missing weld. The fillet weld on the interior was increased to a ½" weld and was found to be visually acceptable.
- All column braces (item 14) that were accessible at this time were added and inspected.
 The braces that were not accessible were inspected by the EOR during a previous site visit.

The following discrepancies were observed during this inspection:

- 1. Two kicker angles were found to be missing on the 5^{th} Floor framing near the Stair #2 opening on line Y1 between X1 and X2.
- 2. Some kicker angles at the 2^{nd} Floor framing still need to be anchored to the slab above.

The project superintendent was notified of our findings.

Verified complete by BSE April, 2017

Inspector; Michael Bump

CWI#07091231

David Macolini

To: davet@opechee.com; Jason Blais

Cc: Todd Neal

Subject: FW: 85 York St Apt & Retail - site visit summary 07-07-17

Hi Dave, a follow-up to our meeting last Friday.

David A. Macolini, P.E.

Senior Engineer

Becker Structural Engineers, Inc.

mobile 207.331.7656

From: David Macolini

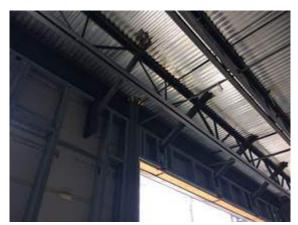
Sent: Wednesday, June 21, 2017 2:08 PM

To: davet@opechee.com
Cc: Jason Blais; Todd Neal

Subject: 85 York St Apt & Retail - site visit summary

Hi Dave,

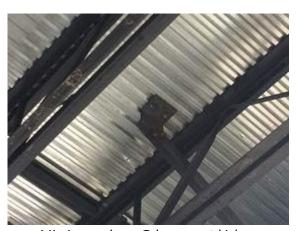
Good to see you today. Although we discussed the remaining steel work, I'm sending this anyway. The handful of remaining items that I am aware of are:



Missing column bracing @ (3) basement tube columns & (1)W18 column. COMPLETED



Missing bolt at 5th floor joist splice. Bolt diameter and ASTM designation to match adjacent bolts. Refer to Vulcraft info. **COMPLETED**



Missing anchors @ basement kicker.



Canopy roof. Let me know when steel is to be erected. WAITING FOR STEEL DELIVERY

Canopy steel installation completed 08-08-17 (see Struct Steel Report)

Four basement brace connections to foundation wall piers are completed (refer to detail dated 01-17-17). This e-mail is also attached as a PDF file.

David A. Macolini, P.E. Senior Engineer Becker Structural Engineers, Inc.

direct 207.879.1838 x117 mobile 207.331.7656



Record of Welder Performance Qualification (WPQ), Refer to AWS D1.1 Structural code

Welder Name: Robert Wymann

Stamp No. RW

WPS No.: SMIF-P-02-11-AWS Revision: 0

Date: 4/05/2016

The above welder is qualified for the following ranges:

Variable	Used in Qualification	Qualification
PROCESS PROCESS TYPE BACKING (QW-403) MATERIAL SPECIFICATION (QW-403)	SMAW Manual With P1 TO P1	SMAW Manual E7018 With/Without P1
THICKNESS GROOVE FILLET DIAMETER	1.0" <u>N/A</u>	Min125" max. Unlimited All
GROOVE FILLET FILLER METAL (QW-404)	N/A N/A	24.0" and greater N/A
SPECIFICATION NO. CLASSIFICATION	AWS A5.1 E7018	AWS A5.1 E60XX/E70XX 4 and lower
F-NUMBER DEPOSITED WELD METAL THICKNESS GROOVE	<u>4 and lower</u> .187"	.187"
POSITION (QW-405) WELD PROGRESSION	<u>3G/4G</u> <u>Uphill</u>	<u>All</u> Uphill
GAS TYPE (QW-408) BACKING GAS ELECTRICAL CHARACTERISTICS (QW-40	<u>N/A</u> <u>N/A</u>	<u>N/A</u> <u>N/A</u>
CURRENT POLARITY	DC Reverse	<u>DC</u> <u>Reverse</u>

GUIDED BEND RESULTS (QW-463.2(d), QW-462.3(a) note: 2

Positions tested	V.T Weld (4.8.1)	Bend type	Defects	Results
3G Vertical	Ananatahla	Side Bend	None	Acceptable
	Acceptable	Side Bend	None	Acceptable
40.00	A t - l - l -	Side Bend	None	Acceptable
4G Overhead	Acceptable	Side Bend	None	Acceptable

Tests conducted at:

Summit Metal Fabricators

Mechanical Tests by: Ryan Surette CWI # 13090711, Test Date 4/05/2016

Ryan Surette CWI 13090711

We certify that the statements in this record are correct and that the test welds were prepared welded and tested in accordance with the requirements of AWS D1.1 Structural code.

Organization: Summit Metal Fabricators

Signed:

Date: 5-/-/6

Type of WelderName Robert Wyman		ation No. RW
Welding Procedure Specification No. SMF-P-02-88-B-U2a	Rev	Date 8/4/16
	Record Actual Values Used in Qualification	
Variables Process/Type (4.8.1)		
Electrode (single or multiple) Current/Polarity	Multiple DCEP	
Position (4.8.4 or 4.9.4) Weld Progression (4.8.6)	ALL.	
Backing (YES or NO) (4.8.7) Material/Spec.	Yes	
Base Metal Thickness: (Plate) Groove Fillel	ASTM A167 304L Unlimi	ted
Thickness: (Pipe/tube)		
Groove Fillet Diameter: (Pipe) Groove Fillet Filler Metal (4.8.2) Spec. No.		
Filler Metal (4.8.2) Spec. No. Class F-No.	AVVS 5.9	
Gas/Flux Type (4.8.3) Other		
	ECTION (4.10.1.1) YES or NO YES	
	st Results (4.10.2.3)	
Type Result	Type	Result
Side Bend Vertical - No Defects	7.	
Side Bend Overhead - No Defects		
Fillet Test F	Results (4.10.5) Fillet Size	
Fracture Test Root Penetration	Macroetch	
Inspected by Ryan Surette		
Organization Summit Metal Fabricators	Date 8/4/16	
Film Identification Results Remarks	EST RESULTS (4.10.3) Film Identification Number	Results Remarks
Interpreted byOrganization	Tesi Number	
We, the undersigned, certify that the statements in this recand tested in accordance with the requirements of Claus Stainless Steel.	ord are correct and that the te 4 of AWS D1.6, (2007 (yea) Structural Welding Code-
Manufacturer or Contractor Summit Metal Fabricators Form M-3	Authorized By Ryan Surett Date 8/4/16	е

Type of Welder	ldentification	No. RW
Velding Procedure Specification No. SMF-P-02-88-B-U2a		Date 8/4/16
	Record Actual Values Used in Qualification	Qualification Range
Variables	-	
Process/Type (4.8.1) Electrode (single or multiple)	Multiple	
Current/Polarity	DCEP	
Surrount ording	Λ11	
Position (4.8.4 or 4.9.4)	A.L.	
Weld Progression (4.8.6)	Up	n a makanaka gana makan ya mayanda ya min may makanan makanan inganiyasa maka kasa kakatang mana binanisti kat
- 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Yes	
Backing (YES or NO) (4.8.7)	to	
Material/Spec. Base Metal		
Thickness: (Plate)	ASTM A167 304L Unlimited	
Groove		
Fillet		
Thickness: (Pipe/tube)		
Groove		
Thickness: (Pipe/tube) Groove Fillet Diameter: (Pipe) Groove Fillet Fillet Fillet Filler Metal (4.8.2) Spec. No.		
Groove		
Fillet		
Filler Metal (4.8.2)	AWS 5.9	
Spec. No.		
Class	308L	
F-No.		
Gas/Flux Type (4.8.3) Other		
Acceptable	PECTION (4.10.1.1) YES or NO YES Test Results (4.10.2.3)	
Type Result	Туре	Result
Side Bend Vertical - No Defects		
Side Bend Overhead - No Defects		
	t Results (4.10.5)	
Appearance	Fillet Size	
Fracture Test Root Penetration	Macroetch	
(Describe the location, nature, and size of any crack or	tearing of the specimen.)	
	Test Number	B. personin, removempe (the solid feet) or is finished by an absolute of the society of the solid feet from the finished by the solid feet from the finished by the solid feet from the finished by the finish
Inspected by Ryan Surette Organization Summit Metal Fabricators		
HADIOGRAPHIC	TEST RESULTS (4.10.3)	
Film Identification Results Remarks Number	Film Identification Resu	
I to see that the second secon	The N. A. C.	
Interpreted by		
Organization		
We, the undersigned, certify that the statements in this rand tested in accordance with the requirements of Cla Stainless Steel.	ecord are correct and that the test use 4 of AWS D1.6, (2007 (year)	welds were prepared, weld _) Structural Welding Cod
Manufacturer or Contractor Summit Metal Fabricators Form M-3	Authorized By Ryan Surette Date 8/4/16	

Type of Welder	Identification	No SI
Name Shayne LeBreton	Identification	Date 8/4/16
Nelding Procedure Specification No. SMF-P-02-88-B-U2a		Jale Willo
Variables	Record Actual Values Used in Qualification	Qualification Range
Process/Type (4.8.1)		
Electrode (single or multiple)	Multiple	
Current/Polarity	DCEP	
7-21-404	ALL	
Position (4.8.4 or 4.9.4)	Up	
Weld Progression (4.8.6)	Alexandria (P. P. P	
Backing (YES or NO) (4.8.7)	Yes	
Material/Spec.	to	
Base Metal		
Thickness: (Plate)	ASTM A167 304L Unlimited	
Groove		
Fillet		
Thickness: (Pipe/tube)		
Groove Fillet Diameter: (Pipe) Groove Fillet	36	
Fillet	1.0	
Diameter: (Pipe)	Appellus Commission of the Com	The second secon
Groove		
Fillet Filler Metal (4.8.2)	Secretary and the secretary of the secre	
Spec. No.	AWS 5.9	
Class	308L	
F-No.		
Gas/Flux Type (4.8.3)		
Other		
Acceptable	PECTION (4.10.1.1) YES or NO YES (4.10.2.3)	9
Type Result	Туре	Result
Side Bend Vertical - No Defects		
Side Bend Overhead - No Defects		
	Results (4.10.5)	
Appearance	Fillet Size	
Fracture Test Root Penetration	Macroetch	
(Describe the location, nature, and size of any crack or t	tearing of the specimen.)	
Inspected by Ryan Surette	Test Number	
Organization Summit Metal Fabricators	Date 8/4/16	
RADIOGRAPHIC	TEST RESULTS (4.10.3)	
Film Identification Results Remarks Number	Film Identification Resu	ults Remarks
Interpreted by	*****	
Organization	Date	
We, the undersigned, certify that the statements in this re and tested in accordance with the requirements of Clau Stainless Steel.	ecord are correct and that the test use 4 of AWS D1.6, (2007 (year)	welds were prepared, welde _) Structural Welding Code
Manufacturer or Contractor Summit Metal Fabricators Form M-3	Authorized By Ryan Surette Date 8/4/16	



CHARLES LEONARD STEEL SERVICES, LLC 183 Pembroke Road, Concord, NH 03301 Tel. (603) 225-0211 • fax (603) 225-0325

Type of Welder MANUAL		Identification No. SL-001
Name: Shayne Lebreton Welding Procedure Specification No.	WPS- 1- SMAW Rev	0 Date: 28-Aug-10
veeding Procedure Specification No.	Record Actual Va	
	Hecord Actual Va	The second secon
re estica	Osed in Qualifica	MOH Godinoston rango
Variables	COLUMN	
Process/Type [Table 4.11, Item (1)]	SMAW	Single
Electrode [single or multiple) [Table 4.11, Item	Single DCEP	Olligie
Current/Polarity	UCEP	
Position [Table 4.11, Item (4)]	3G VERTICAL	1F,2F,3F,1G,2G,3G
Weld Progression [Table 4.11, Item	Control of the Contro	UP
ereid riogression france 7. 1 1, 100	(0)1	
Backing (YES or NO) [Table 4.11, Item (7)	Yes	With Backing or Back Gouging
Material/Spec.	A36	
Base Metal	washing and in security for any most of more fine years in properties to the commence of the c	
Thickness: (Plate)		**************************************
Groove	3/8"	1/8" to 3/4"
Fillet	Not Applicable	1/8" to Unlimited
Thickness: (Pipe/tube)	Application of the section of the se	
Groove	Not Applicable	1/8" to 3/4"
Fillet	Not Applicable	1/8" to Unlimited
Diameter: (Pipe)		
Groove	Not Applicable	Greater Than 24 Inches
Fillet	Not Applicable	Greater Than 24 inches
Filler Metal [Table 4.11, Item (3)]	CHILD CONTROL	
Spec. No.	AWS 5.1	Opposite data and the state of
Class	E7018	
F-No.[Table 4.11, Item (2)]	F4	F4
Gas/Flux type (Table 4.11, Item (3)]	NOT APPLICABLE	
Other	Not Applicable	Not Applicable
	Visual Inspection(4.8.1)	
	Acceptable YES or NO	and the state of t
	d Bend Test Results (4.30.5)	and the second s
_	sult Type	Result
7,1		THE LABORS
Face Acceptable Root Acceptable	STREET, STREET	TIMOTHY W. MRES
Fillet Tes	t Results (4.30.2.3 and 4.30.4.1)	ATTION CON THE MANNEY
Appearance	Fillet Size	्रियादि <u>वटा</u>
Fracture Test Root Penetration	Macroetch	
(Describe the location, nature and size of any	crack or tearing of the specimen)	
Inspected By: Timothy Farres CWI 0)2110941 Test Number	31-001
Organization CLSS	Date August, 28	3 2010
RADIOGRAPHIC TEST RESULTS (4.30.3.1))	
Film Identification	Film Identi	
Number Results	Remarks Nu	mber Results Remarks
Imba manahad Das	Taet Number	
Interpreted By	Control of the Contro	
Organization		
We, the undersigned, certify that the statements i	in this record are correct and that the	test welds were prepared, welded and
tested in conformance with the requirements of S	ection 4 of AWS D1, 1/D1.1M	2008 Structural Welding Code - Steel
Manufacture of Control of CO	A	uthorized By Timothy W. Farres
Manufacturer or Contractor CLSS		August, 28 2010
	Date	

ype of Welder	Identification	No SL2
lame Sleve LeBreton Velding Procedure Specification No. SMF-P-02-88-B-U2a	Rev[Date 8/4/16
retaining Procedure Specification No.	Record Actual Values Used in Qualification	Qualification Range
Variables		
rocess/Type (4.8.1)	Multiple	
:lectrode (single or multiple) current/Polarity	DCEP	
ulterior oranty	ALI	
Position (4.8.4 or 4.9.4)	ALL	
Weld Progression (4.8.6)	Up	
Backing (YES or NO) (4.8.7)	Yes	
Aaterial/Spec.	to	
ase Metal		
Thickness: (Plate)	ASTM A167 304L Unlimited	
Groove Fillet		
Thickness: (Pipe/tube)		
Groove		
Fillet		
Diameter: (Pipe)		
Groove Fillet		
iller Metal (4.8.2)	AWS 5.9	
Spec. No.		
Class	308L	
F-No. Gas/Flux Type (4.8.3)		
Other		
Acceptable Guided Bend T	PECTION (4.10.1.1) YES or NO YES Cest Results (4.10.2.3) Type	Result
Type Result	Туре	riodit
Side Bend Vertical - No Defects		
Side Bend Overhead - No Defects	Paculta (4.10.5)	
	t Results (4.10.5) Fillet Size	
AppearanceFracture Test Root Penetration	Macroetch	
(Describe the location, nature, and size of any crack or		
nspected by Ryan Surette	Test Number	
Organization Summit Metal Fabricators		
	TEST RESULTS (4.10.3)	
	Film Identification	20
Film Identification Results Remarks Number	Number	a delicio micromolfado en cual de delicio e el constituido de la constituida del constituida de la constituida de la constituida del constituida de la constituida del constituida
and appropriate to the contract of the contrac	Color de la compressión de la color de la	
interpreted by		
Organization		
		weids were prepared, weid
and tested in accordance with the requirements of Cla	use 4 of AWS D1.6, (2007 (year)	_) Structural Welding Code
We, the undersigned, certify that the statements in this read tested in accordance with the requirements of Classifications Steel. Manufacturer or Contractor Summit Metal Fabricators	use 4 of AWS D1.6, (2007	_) Structural Welding Cod



CHARLES LEONARD STEEL SERVICES, LLC 183 Pembroke Road, Concord, NH 03301 Tel. (603) 225-0211 · fax (603) 225-0325

ype of Welder MANUAL			Identification No. STL-001	
Stave Lehreton			- 1 00 5 40	
Velding Procedure Specification No.	VPS- 1- SMAW	Rev		
reiding i roboodie openin	Rec	ord Actual Values		
	Use	d in Qualification	Qualification Ra	ange
Variables	SMAW			
Process/Type [Table 4.11, Item (1)]	THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED AND ADDRESS		Single	
Electrode [single or multiple) [Table 4.11, Item	DCEP			
Current/Polarity				
	3G VERT	ICAL	1F,2F,3F,1G,2G,3G	
Position [Table 4.11, Item (4)] Weld Progression [Table 4.11, Item	(6)] UP		UP	
Meid Modiession Lispic 4: 11 mg	(. /~)1		Deal	Causina
Backing (YES or NO) [Table 4.11, Item (7)	Yes		With Backing or Back	Gouging
Material/Spec.	A36			
Base Metal			**************************************	
Thickness: (Plate)			410" 42 214"	
Groove	3/8"		1/8" to 3/4"	
Fillet	Not App	icable	1/6 to Offinitized	
Thickness: (Pipe/tube)			1/8" to 3/4"	
Groove	Not Appl		1/8" to Unlimited	
Fillet	Not Appl	cable	170 to Ommittee	
Diameter. (Pipe)		(Greater Than 24 Incl	hes
Groove	Not Appl		Greater Than 24 inc	hes
Fillet	Not Appl	icable	Ologor High Extension	
Filler Metal [Table 4.11, Item (3)]	ASSIC E		a construction of the cons	
Spec. No.	AWS 5.1 E7018			
Class	F4		F4	
F-No.[Table 4.11, Item (2)]		PLICABLE		
Gas/Flux type (Table 4.11, Item (3)]	Not App	AND THE RESIDENCE OF THE PARTY	Not Applicable	
Other				7
	Visual Inspection(4.8	3.1)		and the second s
	Acceptable YES or	NO		
Guide	ed Bend Test Result	s (4.30.5)	20 marsh	-
	esult .	Туре	Result	and the control of th
Face Acceptable	e			
Doot Acceptable	e 1	-140044	Limitar as	HARM
Fillet Te	st Results (4.30.2.3	and 4.30.4.1) Fillet Size	A Linksie	MAN TO SEL
Appearance		Macroetch	TO THE STATE OF TH	140
Freeture Toot Port Penetration				
(Describe the location, nature and size of an	y crack or tearing or	Test Number S	TI -001	
Inspected By: Timothy Farres CWI	02110941	ate August, 28 20		
Organization CLSS		ale August, 20 21	010	
RADIOGRAPHIC TEST RESULTS (4.30.3.	1)	Film Identifica	ation	
Film Identification	Remarks	Numb		Remark
Number Results	Remains	1		
Interpreted By				
Organization	Ł.)ate	and the second s	
We, the undersigned, certify that the statement	in this cannot are corn	ect and that the tes	t welds were prepared, welded a	and
We, the undersigned, certify that the statement	Section A of ANAC D4	1/D1.1M	2008 Structural Welding C	Code - Steel
tested in conformance with the requirements of	SCULUIT OF LAND DI,		year)	
Manufacturer or Contractor CLSS	8		norized By Timothy W. Farres	9
MIGHTALIA OF COLLINGATOR CECO		Date /	August, 28 2010	

Date August, 28 2010



CHARLES LEONARD STEEL SERVICES, LLC 183 Pembroke Road, Concord, NH 03301 Tel. (603) 225-0211 • fax (603) 225-0325

~				
Type of Welder MANUAL		Identifi	cation No. STL-002	
Name: Steve Lebreton		Rev 0	Date: 28-Aug-10	
Welding Procedure Specification No.	PS-2-SMAW	3101		
	Record A	ctual Values	Qualification Ra	nge
*	Used in	Qualification	A Security of the second	0
Variables	Obsalai	change	900	
Process/Type [Table 4.11, Item (1)]	SMAW		Single	
Electrode [single or multiple) [Table 4.11, Item (Single DCEP			
Current/Polarity	DOLL			
438	4G Overhead		1F,2F,4F,1G,2G,4G	
Position [Table 4.11, Item (4)] Weld Progression [Table 4.11, Item			NA	
Weld Progression [Lable 4.11, Item	10/1		serie Danking of Book	Gougina
Backing (YES or NO) [Table 4.11, Item (7)	Yes		With Backing or Back	Gonding
Material/Spec.	A36			
Base Metal				
Thickness: (Plate)			1/8" to 3/4"	
Groove	3/8"		1/8" to Unlimited	
Fillet	Not Applicable	8		
Thickness: (Pipe/tube)	Not Applicable	a	1/8" to 3/4"	
Groove	Not Applicable		1/8" to Unlimited	
Fillet	10021			
Diameter: (Pipe)	Not Applicabl	е	Greater Than 24 Inch	es
Groove Fillet	Not Applicabl		Greater Than 24 incl	169
Filler Metal [Table 4.11, Item (3)]				
Spec. No.	AWS 5.1		-	
Class	E7018		-F4	
F-No.[Table 4.11, Item (2)]	F4	ADIE		
Gas/Flux type (Table 4.11, Item (3)]	NOT APPLIC		Not Applicable	
Other	Not Applicab	lie		_
	Visual Inspection(4.8.1)		*	
A	acceptable YES or NO			
Guide	d Bend Test Results (4	.30.5)	Result	
	sult Typ	e r	(GSuit	we do state of the
Face Acceptable				The second
Root Acceptable	t Results (4.30.2.3 and	43041)	THIOTH W. F	MARIES
Fillet i es	Kesuits (4.50.2.5 and	Fillet Size	TIMOTHI S.	308 93
Appearance		Macroetch	ATT CAN	S-MONIS
Fracture Test Root Penetration (Describe the location, nature and size of any	crack or tearing of the	specimen)	C. L. L. Mari	
Inspected By: Timothy Farres CWI				
Organization CLSS	Date	August, 28 2010		
RADIOGRAPHIC TEST RESULTS (4.30.3.1)	man is allocation		
Film Identification		Film Identification Number	Results	Remarks
Number Results	Remarks	IAMINDE		
Interpreted By		est Number		
Ciiiii	Date			
We, the undersigned, certify that the statements	in this record are correct a	and that the test welds	were prepared, welded a	and
We, the undersigned, certify that the statements of tested in conformance with the requirements of	Section 4 of AWS D1, 1/D1	.1M21	008 Structural Welding C	ode - Steel
tested in conformance with the requirements of		(year)	Dy Timothy M Farres	
Manufacturer or Contractor CLSS		Authorized	By Timothy W. Farres	
IAICH ICH ICH AT AT A STATE OF THE PROPERTY OF		Date August	. 60 20 10	



MILL CERTIFICATIONS

PROJECT 85 York Street Apartment & Retail Building

 STRUCTURAL STEEL
 ☑RECEIVED
 DATE: 11-07-17
 ☑NOT RECEIVED

 BOLTS
 ☑RECEIVED
 DATE: 11-09-17
 ☑NOT RECEIVED

 WELD FILLER
 ☑RECEIVED
 DATE: 11-09-17
 ☑NOT RECEIVED

ITEMS ABOVE MARKED "RECEIVED" HAVE NOT BEEN INCLUDED IN THIS REPORT DUE TO THE LARGE VOLUME. HARD COPIES ARE AVAILABLE UPON REQUEST.

SPECIAL INSPECTOR: David A. Macolini, P.E. DATE: 11-09-17

Structural Schedule of Special Inspection Services FABRICATION AND IMPLEMENTATION PROCEDURES – STRUCTURAL STEEL

VERIFICATION AND INSPECTION IBC Section 1704.2	REQD Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
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. OP. 2. AISC Certification	Y	S	Fabricator shall submit one of the two qualifications	SII	PE/SE or EIT	Yes
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	SI1	PE/SE or EIT	Yes

Structural Schedule of Special Inspections SEISMIC RESISTANCE - STRUCTURAL

VERIFICATION AND INSPECTION IBC Section 1707	REQD Y/N	EXTENT: CONTINUOU S, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETE D
Special inspections for seismic resistance. Special inspection as specified in this section is required for the following:						
a. The seismic-force-resisting systems in structures assigned to Seismic Design Category C, D, E or F	N		IBC 1707.1			
b. Designated seismic systems in structures assigned to Seismic Design Category D, E, or F.	N		IBC 1707.1			
2. Structural steel: Continuous special inspection for structural welding in accordance with AISC 341.	N		IBC 1707.2			
3. Structural wood:						
a. Continuous special inspection during field gluing operations of elements of the seismic-force-resist- ing system.	N		IBC 1707.3			
b. Periodic special inspections for nailing, bolting, anchoring and other fastening of components within the seismic-force-resisting system (where spacing is 4"o.c., or less) including drag struts, braces and hold-downs	N		IBC 1707.3			
4. Cold-formed steel framing: Periodic special inspections during welding operations of elements of the seismic-force-resisting system. Periodic special inspections for screw attachment, bolting, anchoring and other fastening of components within the seismic-force-resisting system (where spacing is 4" o.c., or less), including struts, braces, and hold-downs	N	-	CFSF for this project not part of the primary seismic-force resisting system.	-	-	
5. Seismic isolation system. Provide periodic special inspection during the fabrication and installation of isolator units and energy dissipation devices if used as part of the seismic isolation system	N	-	Seismic isolators not used.	-	-	



SEISMIC RESISTANCE CHECK LIST [IBC 1705.3]

Seismic Design Category В

☐ FOR SEISMIC DESIGN CATI	EGORY C OR HIGHER:		
Structural: The seismic-force-resisting sys	ems		Not Req'd
X Steel Braced Frames and as	sociated connections/ancho	rage (Not required for SDC C, R=3)	
X Steel Moment Frames and a	ssociated connections (Not	required for SDC C, R=3)	
☐ Shear walls: ☐ CMU ☐ V	/ood ☐ Concrete	🛛 Diaphragms: 💢 Floor 🖾 Roof	
Other:			

WIND RESISTANCE CHECK LIST [IBC 1705.4]

Wind Exposure Category

REQUIRED	NOT REQUIRED	NOT APPLICABLE	WIND RESISTANCE REQUIREMENTS
	\boxtimes		In wind exposure Category B, where the 3-second-gust basic wind speed is 120 miles per hour (mph) (52.8 <i>m/sec</i>) or greater.
	\boxtimes		In wind exposure Categories C and D, where the 3-second-gust basic wind speed is 110 mph (49 <i>m/sec</i>) or greater.



Structural Steel Observation Report

Project Name:		Mixed-Use Development – York & High Streets, Portland ME				13-0545.4	
					Project Number		
						May 25, 2016,	
Client:		Bonardi S	teel Fabricat	ors, LLC	Date:	May 28, 2016	
Client's Re	p.:	Tom Bona	ardi		Sheet:	1 of 1	
						Alan Brown CWI	
General Co	ontractor:	Opechee Construction, Inc			SWCE Rep.:	95120811	
	<u>Weather</u>		Site	Conditions	Arrived at Site:	10:00 am	
	☐ Snow	☐ Warm	☐ Clear	☐ Dusty	Left Site:	12:00 pm	
□Overcast	☐ Fog	☐ Hot	☐ Muddy				
Rain	☐ Cold	☐ Windy	Frozen	Temperatures: 70			
Construct	ion Activities	s Observe	d:				
Alan Brown (AB) performed a structural steel shop inspection for the above referenced project at the Bonardi Steel Fabrication facility (BSF) in Lebanon, New Hampshire on May 25 and May 28, 2016 A review of welder qualifications, material certifications (structural pieces and consumables) and quality control manual was made and found to be in order. Welding was performed by AWS D1.1 qualified welder, Chuck Taylor. Welding operations were observed and welding was performed inside in the flat position with GMAW welding process using 70 series wire. BSF was in the process of assembling and welding columns and beams for the parking garage section of the above referenced project. The fabrication of some of the project had been complete with some of them in progress. The welding for the columns and beams were was examined and found to be in conformance with BSF Shop Drawing Set and AWS D1.1 requirements. Member size and fabrication dimensions were randomly checked with no discrepancies found.							
DISCUSSIO	ns, Recomm	endations	:				
Items Observed Not in Conformance to Project Specifications:							
No non-conforming items noted.							
	Ŭ						
Attachme	nts:			Reviewed	Ву:		

Project: Apartment and Retail Building Mixed Use Development

Date Prepared: March 25, 2016

Fabricator's Certificate of Compliance - Structural Steel

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: Apartment and Retail Building Mixed Use Development, York and High Street, Portland, ME

Fabricator's Name: Bonardi Steel

Address: 20 Bonardi Drive, Enfield, New Hampshire

Certification or Approval Agency:

Certification Number:

Date of Last Audit or Approval:

Description of structural members and assemblies that have been fabricated:

I hereby certify that items described above were fabricated in strict accordance with the approved construction documents.

Signature

Date

Title

Attach copies of fabricator's certification or building code evaluation service report and fabricator's quality control manual

11/9/17

CASE Form 104 • Fabricator's Certificate of Compliance • ©CASE 2004

End of Structural Statement of Special Inspections

End of Structural Statement of Special Inspections