

**Project: Jewish Community Alliance of Southern Maine**  
**Date Prepared: April 3, 2016**

## Structural Statement of Special Inspections

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Project: *Jewish Community Alliance – Jewish Community Center*

Location: *Portland Maine*

Owner: *Jewish Community Alliance of Southern Maine*

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This *Statement of Special Inspections* encompasses 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.

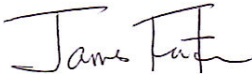
A *Final Report of Special Inspections* documenting completion of all required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted to the BCO prior to issuance of a Certificate of Use and Occupancy.

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

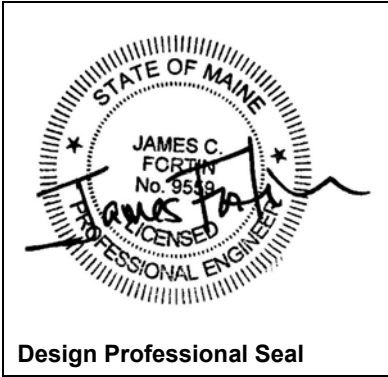
Interim Report Frequency:  *Upon request of Building Official* \_\_\_\_\_ or  per attached schedule.

Prepared by:

*James Fortin, P.E.*  
(type or print name of the Structural Registered Design Professional in Responsible Charge)



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



**Design Professional Seal**

Owner's Authorization:

Building Code Official's Acceptance:

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

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

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## Structural Statement of Special Inspections (Continued)

### List of Agents

Project: *Jewish Community Alliance – Jewish Community Center*

Location: *Portland, Maine*

Owner: *Jewish Community Alliance of Southern Maine*

This *Statement of Special Inspections* encompasses 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
- Masonry Systems
- Structural Steel
- Wood Construction
- Special Cases

Special Inspection Agencies	Firm	Address, Telephone, e-mail
1. <b>STRUCTURAL Special Inspections Coordinator (SSIC)</b>	<i>James Fortin, P.E., Harriman Architects &amp; Engineers</i>	<i>46 Harriman Drive Auburn, Maine 04210 (207) 784-5100 jfortin@harriman.com</i>
2. Special Inspector (SI 1)	<i>James Fortin, P.E. Harriman Architects &amp; Engineers</i>	<i>46 Harriman Drive Auburn, Maine 04210 (207) 784-5100 jfortin@harriman.com</i>
3. Special Inspector (SI 2)	<i>Paul Kohler, P.E. SW Cole Engineering</i>	<i>286 Portland Road Gray, Maine 04039 (207) 657-2866 pkohler@swcole.com</i>
4. Testing Agency (TA 1)	<i>Roger Domingo SW Cole Engineering</i>	<i>286 Portland Road Gray, Maine 04039 (207) 657-2866 rdomingo@swcole.com</i>
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 not 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.

**Project: Jewish Community Alliance of Southern Maine**  
**Date Prepared: April 3, 2016**

## Structural Statement of Special Inspections (Continued)

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### 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: *Jewish Community Alliance – Jewish Community Center*  
Location: *Portland, Maine*  
Owner: *Jewish Community Alliance of Southern Maine*  
Owner's Address: *57 Ashmont Street, Portland, Maine 04103*

Architect of Record: *Mark Lee, AIA* *Harriman Architects & Engineers*  
(name) (firm)

Structural Registered Design  
Professional in Responsible Charge: *James Fortin, P.E.* *Harriman Architects & Engineers*  
(name) (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

\_\_\_\_\_  
(Type or print name)

\_\_\_\_\_  
(Firm Name)

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



**Project: Jewish Community Alliance of Southern Maine**  
**Date Prepared: April 3, 2016**

## Structural Statement of Special Inspections (Continued)

### Special Inspector's/Agent's Final Report – **SI2**

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Project: *Jewish Community Alliance – Jewish Community Center*

Special Inspector or

Agent:

\_\_\_\_\_

*(name)*

\_\_\_\_\_

*(firm)*

Designation:

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.

Respectfully submitted,  
Special Inspector or Agent:

\_\_\_\_\_  
(Type or print name)

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
**Licensed Professional Seal or  
Certification Number**

**Project: Jewish Community Alliance of Southern Maine**  
**Date Prepared: April 3, 2016**

## Structural Statement of Special Inspections (Continued)

### Special Inspector's/Agent's Final Report – **TA1**

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Project: *Jewish Community Alliance – Jewish Community Center*

Special Inspector or

Agent:

\_\_\_\_\_

*(name)*

\_\_\_\_\_

*(firm)*

Designation:

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.

Respectfully submitted,  
Special Inspector or Agent:

\_\_\_\_\_

(Type or print name)

\_\_\_\_\_

Signature

\_\_\_\_\_

Date

\_\_\_\_\_  
**Licensed Professional Seal or  
Certification Number**

## **Structural Schedule of Special Inspections**

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### **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**

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## Structural Schedule of Special Inspections

### SOILS & FOUNDATION CONSTRUCTION

VERIFICATION AND INSPECTION  IBC Section 1704.7, 1704.8, 1704.9	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
1. Verify existing soil conditions, fill placement and load bearing requirements						
a. Prior to placement of prepared fill, determine that the site has been prepared in accordance with the approved soils report.	Y	P	IBC 1704.7.1	SI2	PE/GE, EIT or ETT	
b. During placement and compaction of fill material, verify material being used and maximum lift thickness comply with the approved soils report.	Y	P	IBC 1704.7.2	SI2	PE/GE, EIT or ETT	
c. Test in-place dry density of compacted fill complies with the approved soils report.	Y	P	IBC 1704.7.2	SI2	PE/GE, EIT or ETT	
2. Pile foundations:						
a. Observe and record procedures for static load testing of piles.	N	-	-	-	-	
b. Observe and record procedures for dynamic load testing of piles.	N	-	-	-	-	
c. Record installation of each pile and results of load test. Include cutoff and tip elevations of each pile relative to permanent reference.	N	-	-	-	-	
d. Test welded splices of steel piles	N	-	-	-	-	
3. Pier foundations: Verify installation of pier foundations for buildings assigned to Seismic Design Category C, D, E or F.	N	-	-	-	-	
a. Verify pier diameter and length	N	-	-	-	-	
b. Verify pier embedment (socket) into bedrock	N	-	-	-	-	
c. Verify suitability of end bearing strata	N	-	-	-	-	

## Structural Schedule of Special Inspections

### CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
<b>IBC Section 1704.4</b>						
1. Inspection of reinforcing steel, including prestressing tendons, and placement	Y	P	ACI 318: 3.5, 7.1-7.7	SI2	PE/SE or EIT	
2. Inspection of reinforcing steel welding in accordance with Table 1704.3, Item 5B	N	-	Welding of Reinf Not Allowed	-	-	
3. Inspect bolts to be installed in concrete prior to and during placement of concrete where allowable loads have been increased	Y	C	IBC 1912.5	SI2	PE/SE or EIT	
4. Verifying use of required design mix	Y	P	ACI 318: Ch 4, 5.2-5.4	TA1	PE/SE or EIT	
5. At time fresh concrete is sampled to fabricate specimens for strength test, perform slump and air content test and temperature	Y	C	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	TA1	ACI-CFTT or ACI-STT	
6. Inspection of concrete and shotcrete placement for proper application techniques	Y	C	ACI 318: 5.9, 5.10	TA1	PE/SE or EIT	
7. Inspection for maintenance of specified curing temperature and techniques	Y	P	ACI 318: 5.11-5.13	SI2	PE/SE or EIT	
8. Inspection of Prestressed Concrete						
a. Application of prestressing force.	N	-	-	-	-	
b. Grouting of bonded prestressing tendons in seismic force resisting system	N	-	-	-	-	
9. Erection of precast concrete members	N	-	-	-	-	
10. Verification of in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms beams and structural slabs	N	-	-	-	-	



### Structural Schedule of Special Inspections - STEEL CONSTRUCTION

VERIFICATION AND INSPECTION	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
<b>IBC Section 1704.3</b>						
1. Material verification of high-strength bolts, nuts and washers:						
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	Y	S	Applicable ASTM material specifications; AISC 335, Section A3.4; AISC LRFD, Section A3.3	SI1	PE/SE or EIT	
b. Manufacturer's certificate of compliance required.	Y	S		SI1	PE/SE or EIT	
2. Inspection of high-strength bolting						
a. Bearing-type connections.	Y	P	AISC LRFD Section M2.5	TA1	AWS/AISC-SSI	
b. Slip-critical connections.	Y	C	IBC Sect 1704.3.3	TA1	AWS/AISC-SSI	
3. Material verification of structural steel (IBC Sect 1708.4):						
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	Y	S	ASTM A 6 or ASTM A 568	SI1	PE/SE or EIT	
b. Manufacturers' certified mill test reports.	Y	S	IBC Sect 1708.4	SI1	PE/SE or EIT	
4. Material verification of weld filler materials:						
a. Identification markings to conform to AWS specification in the approved construction documents.	Y	S	AISC, ASD, Section A3.6; AISC LRFD, Section A3.5	SI1	PE/SE or EIT	
b. Manufacturer's certificate of compliance required.	Y	S		SI1	PE/SE or EIT	
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	
6. Inspection of welding (IBC 1704.3.1):						
a. Structural steel:						
1) Complete and partial penetration groove welds. NOTE: Agent must be present during welding process	Y	C	AWS D1.1	TA1	-	
2) Multipass fillet welds.	N	-		-	AWS-CWI	
3) Single-pass fillet welds > 5/16"	N	-		-	-	
4) Single-pass fillet welds < 5/16"	Y	P		TA1	AWS-CWI	
5) Floor and deck welds.	Y	P	AWS D1.3	TA1	AWS-CWI	
b. Reinforcing steel (IBC Sect 1903.5.2):						
1) Verification of weldability of reinforcing steel other than ASTM A706.	N	-		-	-	
2) Reinforcing steel-resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special reinforced concrete shear walls and shear reinforcement.	N	-	AWS D1.4 ACI 318: 3.5.2	-	-	
3) Shear reinforcement.	N	-		-	-	
4) Other reinforcing steel.	N	-		-	-	
7. Inspection of steel frame joint details for compliance (IBC Sect 1704.3.2) with approved construction docs.						
a. Details such as bracing and stiffening.	Y	P		SI1	PE/SE or EIT	
b. Member locations.	Y	P		SI1	PE/SE or EIT	
c. Application of joint details at each connection.	Y	P		SI1	PE/SE or EIT	

## Structural Schedule of Special Inspection Services

### FABRICATION AND IMPLEMENTATION PROCEDURES – STRUCTURAL STEEL

<b>VERIFICATION AND INSPECTION</b>  <b>IBC Section 1704.2</b>	<b>Y/N</b>	<b>EXTENT:</b> <b>CONTINUOUS,</b> <b>PERIODIC,</b> <b>SUBMITTAL, OR</b> <b>NONE</b>	<b>COMMENTS</b>	<b>AGENT</b>	<b>AGENT</b> <b>QUALIFICATION</b>	<b>TASK</b> <b>COMPLETED</b>
1. Fabrications Procedures: Review of fabricator's written procedural and quality control manuals and periodic auditing of fabrication practices by an approved special inspection agency. At the completion of fabrication, the approved fabricator shall submit a certificate of compliance to the building code official stating that the work was performed in accordance with the approved construction documents. -OR- 2. AISC Certification	Y	S	Fabricator shall submit one of the two qualifications	SII	PE/SE or EIT	
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	SII	PE/SE or EIT	

## Structural Schedule of Special Inspections

### SEISMIC RESISTANCE - STRUCTURAL

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VERIFICATION AND INSPECTION	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
<b>IBC Section 1707</b>						
1. Special inspections for seismic resistance. Special inspection as specified in this section is required for the following:			Seismic Design Category: D			
a. The seismic-force-resisting systems in structures assigned to Seismic Design Category C, D, E or F	Y	P	IBC 1707.1	SII	PE/SE or EIT	
2. Structural steel: Continuous special inspection for structural welding in accordance with AISC 341. Note: Agent must be present to observe during welding process.	N	-	-	-	-	
3. Structural wood:						
a. Continuous special inspection during field gluing operations of elements of the seismic-force-resisting system.	N	-	-	-	-	
b. Periodic special inspections for nailing, bolting, anchoring and other fastening of components within the seismic-force-resisting system, including drag struts, braces and hold-downs	N	-	-	-	-	
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, including struts, braces, and hold-downs	N	-	-	-	-	
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	-	-	-	-	

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**Quality Assurance Plan – Seismic and Wind**

**QUALITY ASSURANCE FOR SEISMIC RESISTANCE CHECK LIST [IBC 1705]**

**Seismic Design Category C**

**FOR SEISMIC DESIGN CATEGORY C OR HIGHER:**

**Structural:**

- The seismic-force-resisting systems
  - Steel Braced Frames and associated connections/anchorage
  - Steel Moment Frames and associated connections
- Shear walls:  CMU  Wood  Concrete  Diaphragms:  Floor  Roof
- Other:

**QUALITY ASSURANCE FOR WIND RESISTANCE CHECK LIST [IBC 1706]**

**Wind Exposure Category C**

REQUIRED	NOT REQUIRED	NOT APPLICABLE	<b>QUALITY ASSURANCE PLAN REQUIREMENTS</b> (A Quality Assurance Plan is required where indicated below)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	In wind exposure Categories A and B, where the 3-second-gust basic wind speed is 120 miles per hour (mph) (52.8 m/sec) or greater.
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	In wind exposure Categories C and D, where the 3-second-gust basic wind speed is 110 mph (49 m/sec) or greater.

Prepared by:

Building Code Official's Acceptance:

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

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

## Contractor's Statement of Responsibility

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Each contractor responsible for the construction or fabrication of a system or component designated in the Quality Assurance Plan must submit a Statement of Responsibility to the Building Official and the Owner prior to the commencement of work on the system or component. The Statement of Responsibility is required for Seismic Design Category C or higher. Make additional copies of this form as required.

Project: Jewish Community Alliance – Jewish Community Center

Contractor's Name: Ledgewood Construction

Address: 127 Main Street, South Portland, Maine 04106

License No.:

Description of designated building systems and components included in the Statement of Responsibility:

1. Concrete Foundation System
2. Structural Steel Framing System

This form to be completed by the General Contractor, Concrete Sub-Contractor, Steel fabricator, and Steel Erector.

### **Contractor's Acknowledgment of Special Requirements**

I hereby acknowledge that I have received, read, and understand the Quality Assurance Plan and Special Inspection program.

I hereby acknowledge that control will be exercised to obtain conformance with the construction documents approved by the Building Official.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

### **Contractor's Provisions for Quality Control**

Procedures for exercising control within the contractor's organization, the method and frequency of reporting and the distribution of reports is attached to this Statement.

Identification and qualifications of the person(s) exercising such control and their position(s) in the organization are attached to this Statement.

**END OF STRUCTURAL STATEMENT OF SPECIAL INSPECTIONS**