Statement of Special Inspections

Signature	Date	Signature	Date	
Owner's Autl	horization:	Building Official's Acce	eptance:	
			Design Professional Seal	
Signature /		Date	A Andrews	
un	al .	2013-04-12	FAUCHER NO. 83 8	
William P. I	Faucher, P.E.	_	WILLIAM	
Troparca by	•		OF NEW LINE	
Prepared by			or per attached schedule.	
	ort Frequency: Upon Request	n are solely the responsi	or per attached schedule.	
correction of Use and Occ	, ,	ns shall be submitted prid	or to issuance of a Certificate of	
Responsible	orts shall be submitted to the Building Charge.	Official and the Regi	stered Design Professional in	
the Building discrepancie discrepancie the Registere the Contracte	Inspection Coordinator shall keep records of Official and the Registered Design is shall be brought to the immediate is are not corrected, the discrepancies shall be design Professional in Responsible Chor of his or her responsibilities.	Professional in Resp attention of the Contr all be brought to the atten narge. The Special Insp	onsible Charge. Discovered actor for correction. If such ntion of the Building Official and ection program does not relieve	
Special Inspection so the identity		s of the Building Code. I as the name of the Spe ned for conducting thes	t includes a schedule of Special cial Inspection Coordinator and e inspections and tests. This	
Design Pro	fessional in Responsible Charge: Wi	lliam P. Faucher, P.E.,	Allied Engineering, Inc.	
Owner:	Unum			
Location:	Portland, ME			
Project:	UNUM - HO1 Basement & Loading Do	ck Renovations		

Schedule of Inspection and Testing Agencies

This Statemer	nt of Special Inspections / Quality Assurance	e Pl	an includes the following building systems:
	Soils and Foundations Cast-in-Place Concrete Precast Concrete Masonry Structural Steel Cold-Formed Steel Framing		Spray Fire Resistant Material Wood Construction Exterior Insulation and Finish System Mechanical & Electrical Systems Architectural Systems Special Cases

Special Inspection Agencies	Firm	Address, Telephone, e-mail
Special Inspection Coordinator	Allied Engineering, Inc.	160 Veranda Street Portland, ME 04103 207 221-2260 cfaucher@allied-eng.com
2. Inspector	S.W. Cole Engineering, Inc.	286 Portland Road Gray, ME 04039 207 657-2866 infogray@swcole.com
3. Inspector		
4. Testing Agency	S.W. Cole Engineering, Inc.	286 Portland Road Gray, ME 04039 207 657-2866 infogray@swcole.com
5. Testing Agency		
6. Other		

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.

Quality Assurance Plan

Quality Assurance for Seismic Resistance

Seismic Design Category C

Quality Assurance Plan Required (Y/N) N

Description of seismic force resisting system and designated seismic systems:

Bearing Wall Systems - Ordinary Reinforced Masonry Shear Walls

Building Frame System – Ordinary Reinforced Masonry Shear Walls

Quality Assurance for Wind Requirements

Basic Wind Speed (3 second gust) 90 MPH

Wind Exposure Category

Quality Assurance Plan Required (Y/N)

N

Description of wind force resisting system and designated wind resisting components:

Bearing Wall Systems - Ordinary Reinforced Masonry Shear Walls

Building Frame System - Ordinary Reinforced Masonry Shear Walls

Statement of Responsibility

Each contractor responsible for the construction or fabrication of a system or component designated above must submit a Statement of Responsibility.

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 if requested.

Key for Minimum Qualifications of Inspection Agents:

When the Registered Design Professional in Responsible Charge deems it appropriate that the individual performing a stipulated test or inspection have a specific certification or license as indicated below, such designation shall appear below the Agency Number on the Schedule.

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

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

Exterior Design Institute (EDI) Certification

EDI-EIFS EIFS Third Party Inspector

Other

Soils and Foundations

Item	Agency # (Qualif.)	Scope
1. Shallow Foundations	PE/GE	Inspect soils below footings for adequate bearing capacity and consistency with geotechnical report. Inspect removal of unsuitable material and preparation of subgrade prior to placement of controlled fill
2. Controlled Structural Fill	PE/GE	Perform sieve tests (ASTM D422 & D1140) and modified Proctor tests (ASTM D1557) of each source of fill material. Inspect placement, lift thickness and compaction of controlled fill. Test density of each lift of fill by nuclear methods (ASTM D2922) Verify extent and slope of fill placement.
3. Deep Foundations	PE/GE	Inspect and log pile driving operations. Record pile driving resistance and verify compliance with driving criteria. Inspect piles for damage from driving and plumbness. Verify pile size, length and accessories. Inspect installation of drilled pier foundations. Verify pier diameter, bell diameter, lengths, embedment into bedrock and suitability of end bearing strata.
4. Load Testing	PE/GE	Pile Tests: Arrange and perform the following pile tests: ✓ Axial Compressive Static Load Test: ASTM D 1143. ✓ Axial Tension Static Load Test: ASTM D 3689. ✓ Lateral Load Test: ASTM D 3966 Number of Test Piles: One Group of Two piles and one group of three piles. Approval Criteria: Allowable design capacity of test piles shall be one-half of the load that results in the lesser of the following two values: 1. Net settlement, after deducting rebound, of not more than 0.01 inch/ton (0.25 mm/1000 kg) of test load. 2. Gross settlement of not more than 1 inch (25 mm), provided that load-settlement curve shows no sign of failure.

Cast-in-Place Concrete

Item	Agency # (Qualif.)	Scope
1. Mix Design	ACI-CCI ICC-RCSI	Review concrete batch tickets and verify compliance with approved mix design. Verify that water added at the site does not exceed that allowed by the mix design.
2. Material Certification		
3. Reinforcement Installation	ACI-CCI ICC-RCSI	Inspect size, spacing, cover, positioning and grade of reinforcing steel. Verify that reinforcing bars are free of form oil or other deleterious materials. Inspect bar laps and mechanical splices. Verify that bars are adequately tied and supported on chairs or bolsters
4. Post-Tensioning Operations	ICC-PCSI	Inspect placement, stressing, grouting and protection of post- tensioning tendons. Verify that tendons are correctly positioned, supported, tied and wrapped. Record tendon elongations.
5. Welding of Reinforcing	AWS-CWI	Visually inspect all reinforcing steel welds. Verify weldability of reinforcing steel. Inspect preheating of steel when required.
6. Anchor Rods		Inspect size, positioning and embedment of anchor rods. Inspect concrete placement and consolidation around anchors.
7. Concrete Placement	ACI-CCI ICC-RCSI	Inspect placement of concrete. Verify that concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated.
Sampling and Testing of Concrete	ACI-CFTT ACI-STT	Test concrete compressive strength (ASTM C31 & C39), slump (ASTM C143), air-content (ASTM C231 or C173) and temperature (ASTM C1064).
9. Curing and Protection	ACI-CCI ICC-RCSI	Inspect curing, cold weather protection and hot weather protection procedures.
10. Other:		

10. Anchors and Ties

11. Other:

Masonry Required Inspection Level: ⊠ 1 ☐ 2			
Item	Agency # (Qualif.)	Scope	
Material Certification			
2. Mixing of Mortar and Grout	ICC-SMSI	Inspect proportioning, mixing and retempering of mortar and grout.	
3. Installation of Masonry	ICC-SMSI	Inspect size, layout, bonding and placement of masonry units.	
4. Mortar Joints	ICC-SMSI	Inspect construction of mortar joints including tooling and filling of head joints.	
5. Reinforcement Installation	ICC-SMSI AWS-CWI	Inspect placement, positioning and lapping of reinforcing steel. Inspect welding of reinforcing steel.	
6. Prestressed Masonry	ICC-SMSI	Inspect placement, anchorage and stressing of prestressing bars.	
7. Grouting Operations	ICC-SMSI	Inspect placement and consolidation of grout. Inspect masonry clean-outs for high-lift grouting.	
7. Weather Protection	ICC-SMSI	Inspect cold weather protection and hot weather protection procedures. Verify that wall cavities are protected against precipitation.	
Evaluation of Masonry Strength	ICC-SMSI	Test compressive strength of mortar and grout cube samples (ASTM C780). Test compressive strength of masonry prisms (ASTM C1314).	

and ties.

ICC-SMSI

Inspect size, location, spacing and embedment of dowels, anchors

Structural Steel Page 8 of 8

Item		Agency # (Qualif.)	Scope
	Fabricator Certification/ Quality Control Procedures ☐ Fabricator Exempt	AWS/AISC- SSI ICC-SWSI	Review shop fabrication and quality control procedures.
2.	Material Certification	AWS/AISC- SSI ICC-SWSI	Review certified mill test reports and identification markings on wide-flange shapes, high-strength bolts, nuts and welding electrodes
3.	Open Web Steel Joists		Inspect installation, field welding and bridging of joists.
4.	Bolting	AWS/AISC- SSI ICC-SWSI	Inspect installation and tightening of high-strength bolts. Verify that splines have separated from tension control bolts. Verify proper tightening sequence. Continuous inspection of bolts in slipcritical connections.
5.	Welding	AWS-CWI ASNT	Visually inspect all welds. Inspect pre-heat, post-heat and surface preparation between passes. Verify size and length of fillet welds. Ultrasonic testing of all full-penetration welds.
6.	Shear Connectors	AWS/AISC- SSI ICC-SWSI	Inspect size, number, positioning and welding of shear connectors. Inspect suds for full 360 degree flash. Ring test all shear connectors with a 3 lb hammer. Bend test all questionable studs to 15 degrees.
7.	Structural Details	PE/SE	Inspect steel frame for compliance with structural drawings, including bracing, member configuration and connection details.
8.	Metal Deck	AWS-CWI	Inspect welding and side-lap fastening of metal roof and floor deck.
9.	Other:		