SWBR

ROCHESTER OFFICE
387 East Main St
Rochester NY 14604
585 232 8300
rochester@swbr.com

Architecture
Graphic Design
Interior Design
Landscape Architecture
Structural Engineering

Statement of Special Inspection

Project:	Silver Lake Trail Extension / Footbridge & Boardwalk
Location:	Main Street & Borden Ave Perry, NY
Owner:	Village of Perry
Authority Having Jurisdiction:	Village of Perry

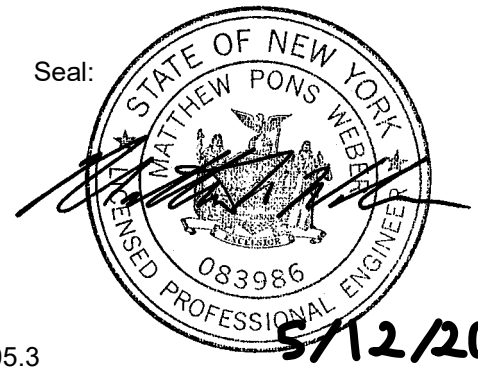
I, as the owner or agent of the owner, certify that I, or the architect/engineer of record, will be responsible for employing the special inspector(s) required under Section 1704 of the Building Code of New York for the above referenced project.

Signed: _____

I, as structural engineer of record, certify that I have prepared the following special inspection program as required under Chapter 17 of the Building Code of New York for the above referenced project.

Printed Name: Matthew P. Weber, PE

Seal:



5/12/2022

List of work requiring special inspection:

1. Steel Construction per NYS Code Section 1705.2
2. Concrete Construction per NYS Code Section 1705.3
3. Soils – Verification of existing soil conditions and foundation work per the approved soils report and NYS Code Section 1705.6, Table 1705.6 tasks 1, 2, 3, & 5.
4. Soils – Verification of fill placement and evaluation of in-place density per the approved soils report (NYS Code Section 1705.6, Table 1705.6 tasks 3 & 4).

Name(s) of individual(s) or firm(s) responsible for the special inspections listed above (subject to approval by the Code Enforcement Official):

All Items Except #4	Item #4
CME Associates, Inc	EmpireGEO
SJB Services, Inc	Foundation Design, PC
Terracon Consultants	
Atlantic Testing, Inc	

LIST OF REQUIRED SPECIAL INSPECTIONS AND TESTING

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SI Item No.	Verification and Inspection	Referenced Standard	Check if Req'd	Cont. / Periodic "C" or "P"
Alternate Materials and Systems - Section 1705.1				
1	Construction materials and systems that are alternatives to materials and systems prescribed by the IBC		☐	
2	Unusual design applications of materials described in this code		☐	
3	Materials and systems required to be installed in accordance with additional manufacturer's instructions		☐	
Steel - Section 1705.2				
4	Structural Steel: Special inspection for structural steel shall be in accordance with the quality assurance inspection requirements of AISC 360 Chapter N P = Perform for each welded joint or members, for each bolted connection and for each steel element O = Observe items on a random basis. Operations need not be delayed pending these inspections	AISC 360 Chapter N	☒	
	a. Material verification of structural steel shall comply with the requirements of Section 6.1 of the *Code of Standard Practice*	Section 6.1 of the *Code of Standard Practice*	☒	
	b. Welding, high-strength bolting, and details in accordance with Section N5	AISC 360 Section N5	☒	
	c. Steel deck and headed steel stud anchor placement and attachment in accordance with Section N5.4	AISC 360 Section N5.4	☐	
	d. Cut surfaces in accordance with Section M2.2	AISC 360 Section M2.2	☐	
	e. Heating for straightening in accordance with Section M2.1	AISC 360 Section M2.1	☐	
	f. Tolerances for field erection in accordance with Section 7.13 of the Code of Standard Practice	Section 7.13 of the *Code of Standard Practice*	☐	

5	Material Verification of Cold Formed Steel Deck		☐	
	a. Identification markings to conform to ASTM standards specified in the approved construction documents	Applicable ASTM material standards	☐	P
	b. Manufacturer's certified test reports		☐	P
6	Inspection of welding:		☐	
	a. Cold-formed steel deck:		☐	
	1) Floor and roof deck welds	AWS D1.3	☐	P
	b. Reinforcing steel:		☐	
	1) Verification of weldability of reinforcing steel other than ASTM A 706	AWS D1.4 ACI 318: 26.6.4	☐	P
	2) 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		☐	O
	3) Shear reinforcement		☐	O
	4) Other reinforcing steel		☐	P
7	Cold-formed steel trusses spanning 60 feet or greater		☐	
Open-Web Steel Joists and Joist Girders - Section 1705.2.3				
8	Installation of open-web steel joists and joist girders		☐	-
	a. End connections – welding or bolted	SJI Specification, BC 2207.1	☐	P
	b. Bridging – horizontal or diagonal		☐	
	1) Standard Bridging	SJI Specification, BC 2207.1	☐	P
	2) Bridging that differs from the SJI specifications listed in section BC 2207.1		☐	P
Concrete - Section 1705.3				

9	Inspection of reinforcing steel, including prestressing tendons, and placement	ACI 318: Ch 20, 25.2, 25.3, 26.6.1-26.6.3	☒	P
10	Reinforcing bar welding	AWS D1.4 ACI 318: 26.6.4	☐	-
	a. Verify weldability of reinforcing bars other than ASTM A706		☐	P
	b. Inspect single-pass fillet welds, maximum 5/16”		☐	P
	c. Inspect all other welds		☐	C
11	Inspection of anchors cast in concrete	ACI 318: 17.8.2	☐	P
12	Inspection of anchors post-installed in hardened concrete members		☐	
	a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads	ACI 318: 17.8.2.4	☐	C
	b. Mechanical anchors and adhesive anchors not defined in item 12.a	ACI 318: 17.8.2	☐	P
13	Verifying use of required design mix	ACI: Ch. 19, 26.4.3, 26.4.4	☐	P
14	Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete	ASTM C 172 ASTM C 31 ACI 318: 26.5, 26.12	☒	C
15	Inspection of concrete and shotcrete placement for proper application techniques	ACI 318: 26.5	☐	C
16	Verify maintenance of specified curing temperatures and techniques	ACI 318: 26.5.3 - 26.5.5	☐	P
17	Inspection of prestressed concrete:	ACI 318: 26.10	☐	-
	a. Application of prestressing forces		☐	C
	b. Grouting of bonded prestressing tendons in the seismic force-resisting system		☐	C
18	Erection of precast concrete members	ACI 318: 26.9	☐	P
19	Verification of in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior	ACI 318: 26.11.2	☐	P

	to removal of shores and forms from beams and structural slabs			
20	Inspect formwork for shape, location, and dimensions of the concrete member being formed	ACI 318: 26.11.1.2(b)	☐	P
21	Note Exceptions 1, 2, 3, 4, and 5 in Section 1705.3 discussing footings for buildings three stories or less, nonstructural slabs, foundations and certain exterior concrete features when placed on grade. ***Check here if Special Inspection for Concrete not required due to exceptions.***	☐ *Not Req'd*	-	
Masonry - Section 1705.4				
22	Level A: Minimum quality assurance program for masonry in Risk Category I, II, or III structures and designed in accordance with Part 4 or Appendix A	ACI 530.1 Table 3.1.1	☐	
23	Level B:		☐	
	Minimum quality assurance program for masonry in Risk Category I, II, or III structures and designed in accordance with chapters *other* than those in Part 4 or Appendix A	ACI 530.1 Table 3.1.2	☐	
	Minimum quality assurance program for masonry in Risk Category IV structures and designed in accordance with Chapter 12 or 13	ACI 530.1 Table 3.1.2	☐	
24	Level C: Minimum quality assurance program for masonry in Risk Category IV structures and designed in accordance with chapters *other* than those in Part 4 or Appendix A	ACI 530.1 Table 3.1.3	☐	
25	Vertical Masonry Foundation Elements shall be inspected in accordance with IBC Section 1705.4	BC1705.4	☐	

Wood - Section 1705.5				
26	High-load diaphragms:	BC1705.5.1	☐	
	a. Inspect wood structural panel sheathing for grade and thickness per approved plans		☐	
	b. Verify the nominal size of framing members at adjoining panel edges, the or staple diameter and length, and fastener layout meets approved plans		☐	
27	Metal-plate-connected wood trusses spanning 60 feet or greater: verify temporary installation restraint/bracing and permanent individual truss member restraint/bracing are installed in accordance with the approved truss submittal package	BC1705.5.2	☐	
Soils - Section 1705.6				
28	Verify materials below shallow foundation are adequate to achieve the design bearing capacity		☒	P
29	Verify excavations are extended to proper depth and have reached proper material		☒	P
30	Perform classification and testing of compacted fill materials		☐	P
31	Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill		☐	C
32	Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly		☐	P
Driven Deep Foundations - Sections 1705.7				
33	Verify element materials, sizes and lengths comply with the requirements		☐	C
34	Determine capacities of test elements and conduct additional load tests, as required		☐	C
35	Observe driving operations and maintain complete an accurate record for each element		☐	C

36	Verify placement locations and plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and document any damage to foundation element		☐	C
37	For steel elements, perform additional inspections in accordance with Section 1705.2		☐	-
38	For concrete elements and concrete-filled elements, perform additional inspections in accordance with Section 1705.3		☐	-
39	For specialty elements, perform additional inspections as determined by the registered design professional in responsible charge		☐	-
Cast-in-Place Deep Foundations - Section 1705.8				
40	Observe drilling operations and maintain complete and accurate records for each element		☐	C
41	Verify placement locations and plumbness, confirm element diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable) and adequate end-bearing strata capacity. Record concrete or grout volumes		☐	C
42	For concrete elements, perform additional inspections in accordance with Section 1705.3		☐	-
Helical Pile Foundations - Section 1705.9				
43	Record installation equipment used, pile dimensions, tip elevations, final depth, final installation torque and other pertinent installation information as required by RDPiRC		☐	

Sprayed Fire-Resistant Materials - Section 1705.14				
44	Observe the following items: • Condition of substrates • Thickness of application • Density in pounds per cubic foot • Bond strength adhesion/cohesion • Condition of finished application		☐	
Mastic and Intumescent Coatings - Section 1705.15				
45	Verify that mastic and intumescent fire-resistant coatings are applied to structural elements and decks in accordance with AWCI 12-B and shall be based on the fire-resistance design as designated in the approved construction documents		☐	
Exterior Insulation and Finish Systems - Section 1705.16				
46	Verify application of all EIFS systems for conformance with manufacturer's specifications including water-resistant barrier, lath, and application of coatings		☐	
47	Verify application of stucco systems for conformance with manufacturer's specifications including water-resistant barrier, lath, and application of coatings	(IBC 2510)	☐	
Fire-Resistant Penetrations and Joints - Section 1705.17				
48	Penetration Firestops: Inspections of penetration firestop systems that are tested and listed in accordance with Sections 714.4.1.2 and 714.5.1.2 shall be conducted by an approved inspection agency in accordance with ASTM E2174		☐	
49	Fire-resistant joint systems: Inspection of fire-resistant joint systems that are tested and listed in accordance with Sections 715.3 and 715.4 shall be conducted by an approved inspection agency in accordance with ASTM E2393		☐	
Smoke Control Systems - Section 1705.18				
50	During erection of ductwork and prior to concealment for the purposes of leakage testing and recording of device location		☐	
51	Prior to occupancy and after sufficient completion for the purposes of pressure difference testing, flow measurement and detection and control verification		☐	

Additional Special Inspections and Tests				
52	Design Strength of Materials: Section 1706		☐	
53	Alternative Test Procedures: Section 1707		☐	
54	In-Situ Load Tests: Section 1708		☐	
55	Preconstruction Load Tests: Section 1709		☐	
56	Specify other tests, inspections or special instructions as required		☐	
	Project-Specific Wood Framing Special Inspections			
	a. Anchorage:			
	1) Anchor bolts in sill plates are correct spacing and nuts are properly tightened with LBP plates		☐	
	2) Additional anchors are installed correctly at interior braced wall panels		☐	
	3) Specified post bases are installed per Contract Documents		☐	
	4) Appropriate anchorage and holddowns are installed at shearwalls		☐	
	b. Framing:			
	1) Wood posts are sized and located per plan and carried down to slab elevation. Solid blocking is provided in floor joist cavity		☐	
	2) Stud size and spacing at bearing walls is per Contract Documents		☐	
	3) Header size and jack studs/posts are per plans. Solid blocking is provided in floor joist cavity.		☐	
	4) Roof sheathing is plywood (fire rated where required) NOT OSB or Advantech (unless previously approved)		☐	

	5) Roof venting in overbuild areas is present/adequate where required per plan notes		☐	
	6) Interior non-load bearing partition wall framing is held down 3/4" with appropriate deflection fasteners installed per Contract Documents		☐	
	c. Fasteners:			
	1) Simpson HGA clips installed at roof trusses along parallel interior and exterior braced wall panels per details.		☐	
	2) Hurricane ties installed at all roof truss bearing points		☐	
	3) Membrane barrier present at any PPT lumber in combination with galvanized connectors		☐	
	d. Shearwall/Braced Wall Panels:			
	1) Blocking trusses with Simpson HGA clips installed at interior and exterior locations per details		☐	
	2) Panels installed in correct location, sheathing and studs not cut or damaged		☐	
	3) Sheathing fasteners at correct spacing and not overdriven		☐	
	4) Sheathing joints and penetrations are appropriately blocked and fastened per details		☐	
	5) Penetrations through shearwalls meet specified limits identified on Construction Documents		☐	
Inspection of Fabricators				
57	Structural Steel		☐	
58	Steel Joists & Girders		☐	
59	Pre-cast Concrete		☐	
60	Prestressed Concrete		☐	
61	Wood Construction (wood trusses, walls, floors, roof assemblies)		☐	
62	Cold-formed steel trusses		☐	