Statement of Special Inspections

CNI-033

MANZANA PRODUCTS CO.
Name of Owner

9141 GREEN VALLEY RD.
Address

BLD15-1306
Permit Number

PRODUCTION CANOPY
Job Description 150059

This Statement of Special Inspections is submitted to outline the requirements of CBC Chapter 17.

Included are:

- Schedule of special inspections and tests applicable to this project:
  - Special inspections, per Section 1704
  - Special inspection for seismic resistance, per Sections 1707 and 1708
  - Structural observations, per Section 1710
  - Material testing and/or load testing, per Sections 1711 through 1716
- List of the special inspectors, testing agencies, and registered design professionals that will be retained to conduct the applicable tests, observations, and testing required.
- Contractor's statement of responsibility, per Section 1709

Special inspections and testing, and structural observations, shall be performed in accordance with the approved plans and specifications, this statement, approved testing procedures, applicable listing information for fabricated items, and CBC Section 17.

The Schedule of Special Inspections summarizes the special inspections and tests required. Special inspectors shall refer to the approved plans and specifications for detailed special inspection requirements. Any additional tests or observations required by the approved plans, specifications, or required by the building official shall also be performed.

Interim reports will be submitted to the building official and the registered design professional in responsible charge, in accordance with CBC Sections 1704.1.2 and 1710.

At the conclusion of work included in the permit, a report of special inspections and structural observations shall be submitted to the building official. This final report shall document:

- Required special inspections
- Final results of structural testing
- Correction of discrepancies noted in inspections
- Written statement of structural observations, and identify any reported deficiencies which, to the best of the structural observer's knowledge, have not been resolved

This plan has been developed with the understanding that the building official shall:

- Review and approve the qualifications of special inspectors who shall perform required inspections
- Review submitted inspection reports
- Perform inspections as required by the locally adopted building codes

Prepared b y:

MARC MATULICH-ARCH.
Registered Design Professional in Responsible Charge

Marc Matulich
Signature

C12701
License Number

4-4-2015
Date

Owner's Authorization:

MARK FITZGERALD
Owner

Mark Fitzgerald 4-21-15
Signature Date

Building official's acceptance:

P. MARQUEZ
Building official

5/21/15
Signature Date

Schedule of Inspections, Testing Agencies, and Inspectors

The following are the testing agencies, registered design professionals, and special inspectors that will be retained to conduct tests, inspections, and structural observations for this project:

Responsibility	Firm	Address, telephone, e-mail
1. Special Inspection (Except for Geotechnical)	PJC & ASSOC.	600 MARTIN AV. #210 584-4804 pjcinc@sonic.net
2. Material Testing		
3. Geotechnical Inspections		
4. Structural Observations		

Seismic Requirements (Section 1705.3.6):

Identify the designated seismic systems and seismic-force-resisting systems subject to special inspections, per CBC Sections 1705.3 through 1705.3.5. Identify additional special inspection and testing required, per CBC Sections 1707 and 1708.

Summary of Required Special Inspections, Structural Testing, and Structural Observations:

Brief description of required special inspections and structural observations for this project. Full schedule of inspections are those that are checked off on the following pages. Include additional sheets as necessary to identify frequency and extent of structural observations.

ANCHOR BOLT PLACEMENT
FOOTING EXCAVATIONS
EPOXY ANCHORS
HIGH STRENGTH BOLTING

Schedule of Special Inspections

Notations used in this table:

Column headers:

C: Full-time observation of work by an approved special inspector while the work is being performed.

P: Intermittent observation of work by an approved special inspector where the work has been performed and at the completion of work.

Box entries:

X: Is placed in the appropriate column denoting either "C" continuous or "P" periodic inspections.

–: Denotes an activity that is either a one-time activity or whose frequency is defined in some other manner.

Notes/Referenced Standards: Indicates the applicable reference standard applicable to the criteria, method and frequency of the special inspection or testing required. Additional notes may be included in this box denoting frequency of inspections or the special inspection agency responsible for the particular inspection item.

Additional details regarding inspections and tests are provided in the project specifications or notes on the drawings.

Verification and Inspection	C	P	X if Req'd	Notes/ Referenced Standards
1704.2 Inspection of fabricators:				
1. Fabrication and implementation procedures	–	–		
2. Fabricator approval	–	–		
1704.3 Steel construction:				
Material verification of high strength bolts, nuts, and washers:				
1. Identification markings conform to ASTM standards specified in the approved construction documents		X		AISC 360: A3.3
2. Manufacturer's certificate of compliance required	–	–		
Inspection of high strength bolting:				
1. Snug-tight bolts		X		AISC 360: M2.5 CBC 1704.3.3
2. Pretensioned and slip-critical joints using turn-of-nut with matchmarking, twist-off bolt or direct tension indicator methods of installation		X		
3. Pretensioned and slip-critical joints using turn-of-nut without matchmarking or calibrated wrench methods of installation	X			
Material verification of structural steel and cold-formed steel deck:				
1. For structural steel, identification markings to conform to AISC 360		X		AISC 360: M5.5
2. For other steel, identification markings to conform to ASTM standards specified in the approved construction documents		X		Applicable ASTM material standards
3. Manufacturer's certified test reports		X		
Material verification of weld filler materials:				
1. Identification markings to conform to AWS specification in the approved construction documents		X		AISC 360: A3.5 Applicable AWS A5 documents
2. Manufacturer's certificate of compliance required		X		
Inspection of welding:				
1. Structural steel and cold-formed steel deck:				
a) Complete and partial joint penetration groove welds	X			AWS D1.1 CBC 1704.3.1
b) Multipass fillet welds	X			
c) Single-pass fillet welds >5/16"	X			
d) Plug and slot welds	X			
e) Single-pass fillet welds ≤ 5/16"		X		
f) Floor and roof deck welds		X		AWS D1.3

2. Reinforcing steel				
a) Verification of weldability of reinforcing steel other than ASTM A706		X		AWS D1.4 ACI 318: 3.5.2
b) 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	X			
c) Shear reinforcement	X			
d) Other reinforcing steel				
Inspection of steel frame joint details for compliance:				
1. Details such as bracing and stiffening		X		CBC 1704.3.2
2. Member locations		X		
3. Application of joint details at each connection		X		
1704.4 Concrete construction:				
Inspection of reinforcing steel, including prestressing tendons, and placement		X		ACI 318: 3.5, 7.1-7.7 CBC 1913.4
Inspection of reinforcing steel welding	–	–		AWS D1.4 ACI 318: 3.5.2
Inspection of 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	X			ACI 318: 8.1.3, 21.2.8 CBC 1911.5, 1912.1
Inspection of anchors installed in hardened concrete		X		ACI 318: 3.8.6, 8.1.3, 21.2.8 CBC 1912.1
Verify use of required design mix		X		ACI 318: Ch.4, 5.2-5.4 CBC 1904.2.2, 1913.2, 1913.3
At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete	X			ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8 CBC 1913.10
Inspection of concrete and shotcrete placement for proper application techniques	X			ACI 318: 5.9, 5.10 CBC 1913.6-1913.8
Inspection of prestressed concrete:				
1. Application of prestressing forces	X			ACI318: 18.20
2. Grouting of bonded prestressing tendons in the seismic-force-resisting system	X			ACI 318:18.18.4
Erection of precast concrete members		X		ACI 318: Ch. 16
Verification of in-situ concrete strength, prior to stressing of tendons in posttensioned concrete and prior to removal of shores and forms from beams and structural slabs		X		ACI 318: 6.2
Inspect formwork for shape, location and dimensions of the concrete member being formed		X		ACI 318: 6.1.1
1704.5 Masonry construction:				
Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified		X		TMS 602/ACI 530.1/ASCE 6: Art.1.5
Verification of f'_m and f'_{AAC} prior to construction except where specifically exempted by this code		X		TMS 602/ACI 530.1/ASCE 6: Art.1.4B

Verification of slump flow and VSI as delivered to the site for self-consolidating grout	X			TMS 602/ACI 530.1/ASCE 6: Art.1.5B.1.b.3
As masonry construction begins, the following shall be verified to ensure compliance:				
1. Proportions of site-prepared mortar		X		TMS 602/ACI 530.1/ASCE 6: Art.2.6A
2. Construction of mortar joints		X		TMS 602/ACI 530.1/ASCE 6: Art.3.3B
3. Location of reinforcement, connectors, prestressing tendons and anchorages		X		TMS 602/ACI 530.1/ASCE 6: Art.3.4, 3.6A
4. Prestressing technique		X		TMS 602/ACI 530.1/ASCE 6: Art.3.6B
5. Grade and size of prestressing tendons and anchorages		X		TMS 602/ACI 530.1/ASCE 6: Art.2.4B, 2.4H
During construction the inspection program shall verify:				
1. Size and location of structural elements		X		TMS 602/ACI 530.1/ASCE 6: Art.3.3F
2. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction		X		TMS 402/ACI 530.1/ASCE 5: Sec. 1.2.2(e), 1.16.1
3. Specified size, grade and type of reinforcement, anchor bolts, prestressing tendons and anchorages		X		TMS 402/ACI 530.1/ASCE 5: Sec. 1.15 TMS 602/ACI 530.1/ASCE 6: Art.2.4, 3.4
4. Welding of reinforcing bars	X			TMS 402/ACI 530.1/ASCE 5: Sec. 2.1.9.7.2, 3.3.3.4(b)
5. Preparation, construction and protection of masonry during cold weather (temp. below 40°F) or hot weather (temp. above 90°F)		X		CBC 2104.3, 2104.4 TMS 602/ACI 530.1/ASCE 6: Art.1.8C, 1.8D
6. Application and measurement of prestressing force	X			TMS 602/ACI 530.1/ASCE 6: Art.3.6B
Preparation of any required grout specimens and/or prisms shall be observed	X			CBC 2105.2.2, 2105.3 TMS 602/ACI 530.1/ASCE 6: Art.1.4
1704.7 Verification and inspection of soils:				
Verify materials below shallow foundations are adequate to achieve the design bearing capacity		X		
Verify excavations are extended to proper depth and have reached proper material		X		
Perform classification and testing of compacted fill materials		X		
Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill	X			
Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly		X		
1704.8 Verification and inspection of driven deep foundation elements:				
Verify element materials, sizes and lengths comply with the requirements	X			
Determine capacities of test elements and conduct additional load tests, as required	X			
Observe driving operations and maintain complete and accurate records for each element	X			
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	X			
For steel elements, perform additional inspections in accordance with Section 1704.3	--	--		

For concrete elements and concrete-filled elements, perform additional inspections in accordance with Section 1704.4	--	--		
For specialty elements, perform additional inspections as determined by the registered design professional in responsible charge	--	--		
1704.9 Verification and inspection of cast-in-place deep foundation elements:				
Observe drilling operations and maintain complete and accurate records for each element	X			
Verify placement locations and plumbness, confirm element diameters, bell diameters, lengths, embedment into bedrock and adequate end-bearing strata capacity. Record concrete or grout volumes	X			
For concrete elements, perform additional inspections in accordance with Section 1704.4	--	--		
1704.10 Helical pile foundations				
Record installation equipment used, pile dimensions, tip elevations, final depth, final installation torque, and other pertinent data as required.	X			
1704.11 Vertical masonry foundation elements:				
Inspections shall be performed in accordance with Section 1704.5 for vertical masonry foundation elements	--	--		
1704.12 Sprayed fire-resistant materials:				
Special inspections shall include the following tests and observations to demonstrate compliance with the listing and fire resistance rating:				
1. Condition of substrate	--	--		
2. Thickness of application	--	--		CBC 1704.12.4.1-1704.12.4.3 ASTM E 605
3. Density in pounds per cubic foot	--	--		ASTM E 605
4. Bond strength adhesion/cohesion	--	--		CBC 1704.12.6.1-1704.12.6.3 ASTM E 736
5. Condition of finished application	--	--		
1704.13 Mastic and intumescent fire-resistant coatings:				
Special inspection for mastic and intumescent fire resistive coatings applied to structural elements and decks	--	--		AWCI 12-B
1704.14 Exterior insulation and finish systems (EIFS):				
Special inspection of the water-resistive barrier coating when installed over a sheathing substrate	--	--		ASTM E 2570
1704.15 Special cases:				
Construction materials and systems that are alternatives to materials and systems prescribed by the applicable code	--	--		
Unusual design applications of materials described in the applicable code	--	--		
Materials and systems required to be installed in accordance with additional manufacturer's instructions that prescribe requirements not contained in the applicable code or referenced standards	--	--		List code reports (attached to construction documents) for each applicable material/system
1704.16 Smoke control:				
During erection of ductwork and prior to concealment for the purpose of leakage testing and recording of device location	--	--		
Prior to occupancy and after sufficient completion for the purposes of pressure difference testing, flow measurements and detection and control verification	--	--		

1707 Special inspections for seismic resistance				
1707.2 Structural steel:				
Structural steel in structures not specifically detailed for seismic resistance, with a response modification coefficient, R, or 3 or less, excluding cantilever column systems	--	--		AISC 341
For ordinary moment frames, ultrasonic and magnetic particle testing of complete joint penetration groove welds are only required for demand critical welds	--	--		AISC 341
1707.3 Structural wood:				
Field gluing operations of elements of the seismic-force-resisting system	X			
Nailing, bolting, fastening, and other fastening of components within the seismic-force-resisting system, where the fastener spacing of the sheathing is 4 inches or less on center.		X		
1707.4 Cold-formed steel light-frame construction:				
Welding operations of elements of the seismic-force-resisting system		X		
Screw attachment, bolting, anchoring and other fastening of components within the seismic-force-resisting system where the sheathing is wood structural panels or steel sheets with fastener spacing is 4 inches or less on center		X		
1707.5 Storage racks and access floors:				
Required during the anchorage of access floors and storage racks 8 feet or greater in height		X		
1707.6 Architectural components:				
Erection and fastening of exterior cladding (more than 5 psf), interior (more than 15 psf) and exterior nonbearing walls, and interior and exterior veneer (more than 30 feet in height and more than 5 psf)		X		
1707.7 Mechanical and electrical components:				
Anchorage of electrical equipment for emergency or standby power systems		X		
Installation of anchorage of other electrical equipment		X		
Installation of piping systems intended to carry flammable, combustible, or highly toxic contents and their associated mechanical units		X		
Installation of HVAC ductwork that will contain hazardous materials		X		
Installation of vibration isolation systems where the construction documents require a nominal clearance of ¼ inch or less between the equipment support frame and restraint		X		
1707.8 Designated seismic system verifications:				
Examine designated seismic systems requiring qualification and verify that the label, anchorage or mounting conforms to the certificate of compliance	--	--		CBC 1708.4 ASCE 7: 13.2.2
1707.9 Seismic isolation system:				
Fabrication and installation of isolator units and energy dissipation devices that are part of the seismic isolation system		X		ASCE 7: 17.8
1708 Structural testing for seismic resistance				
1708.2 Concrete reinforcement:				
Mill test reports provided for each shipment of reinforcement used to resist earthquake-induced flexural and axial forces in special moment frames, special structural walls, and coupling beams connecting special structural walls.	--	--		ASTM A 615 CBC 1613 ACI 318: 21.1.5.2

Chemical tests performed to determine weldability of reinforcement complying with ASTM A615	--	--		ASTM A 615 ACI 318: 3.5.2
1708.3 Structural steel:				
Testing in accordance with the quality assurance plan requirements.	--	--		AISC 341
For ordinary moment frames, ultrasonic and magnetic particle testing of welds is only required for demand critical welds	--	--		
1708.4 Seismic certification of nonstructural components:				
Certification shall be based on an actual test on a shake table, by three-dimensional shock tests, by an analytical method using dynamic characteristics and forces, by the use of experience data, or by more rigorous analysis.	--	--		ASCE 7: 13.2.1 and 13.2.2
1708.5 Seismically isolated structures				
Required testing, per Section 17.8 of ASCE 7	--	--		ASCE 7: 17.8
1710 Structural observations				
Prior to the commencement of observations, the structural observer shall submit to the building official a written statement identifying the frequency and extent of structural observations	--	--		
At the conclusion of work included in the permit, the structural observer shall submit to the building official a written statement that the site visits have been made and identify any reported deficiencies which have not been resolved	--	--		
1711 Design strength of materials				
Design strengths and permissible stresses of any structural material that are identified by a manufacturer's designation as to manufacture and grade by mill tests, or otherwise confirmed to the satisfaction of the building official, shall conform to the applicable specifications	--	--		
Materials that are not specifically provided for in the applicable code shall justify design strengths and permissible stresses to the satisfaction of the building official	--	--		
1714 In-Situ load tests				
An applicable load test procedure and acceptance criteria in the standard applies	--	--		CBC Chapter 35, 1714.3.2
Standard load test procedure is not specified, existing structure is subjected to a test procedure developed by a registered design professional	--	--		CBC 1604.3, 1714.3.2
1715 Preconstruction load tests				
An applicable load test procedure and acceptance criteria in the standard applies	--	--		CBC Chapter 35, 1715.3
Standard load test procedure is not specified, existing structure is subjected to a test procedure developed by a registered design professional	--	--		CBC Chapter 35, 1715.3.1, 1604.3
Wall and partition assemblies	--	--		
Exterior window and door assemblies	--	--		

Contractor Responsibility

Per Section 1709, each contractor responsible for the construction of a main seismic-force resisting system, designated seismic system or a seismic-resisting component listed in the Statement of Special Inspections shall submit a written statement of responsibility to the building official and the owner prior to the commencement of work on the system or component. The contractor's statement of responsibility shall contain acknowledgement of awareness of the special requirements contained in the Statement of Special Inspections.

Each contractor responsible for the construction of the applicable system or component as specified above shall use the following lines to enter their name, signature, company, license number, date, and particular system or component that they are taking responsibility for prior to commencement of work on the indicated system or component. A copy of this page shall be presented to the building official, and it is the contractor's responsibility to also provide the owner a copy of this document.

COREY CLELAND
CARY & ASSOC. BUILDERS
Name

Signature

CARY & ASSOC. BUILDERS
Company

738609
License Number

4/7/15
Date

PORTAL FRAME & CROSS BRACING
Main seismic-force resisting system or designated seismic system or seismic-force resisting component

Name

Signature

Company

License Number

Date

Main seismic-force resisting system or designated seismic system or seismic-force resisting component