### CITY OF MONTEREY PARK

320 West Newmark Avenue • Monterey Park • California 91754-2896
BUILDING AND SAFETY DIVISION buildingdivision@montereypark.ca.gov



#### STATEMENT OF SPECIAL INSPECTIONS

Name of Owner	Project Address	
Permit Number	Job Description	

This Statement of Special Inspections is submitted to outline the requirements of 2019 CBC Sections 1704 and 1705. Included are:

- Schedule of special inspections and tests applicable to this project:
  - Special inspections, per Section 1704 and 1705
  - Special inspection for seismic and wind resistance, per Sections 1704.3.2, 1704.3.3, 1705.11, 1705.12, and 1705.13
  - Structural observations, per Section 1704.6
  - Material testing and/or load testing, per Sections 1706 through 1709
- 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 1704.4

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 Chapter 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 Section 1704.2.4.

At the conclusion of work included in the permit, a report of special inspections and structural observations shall be submitted to the Building Inspector. 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

The Owner recognizes his or her obligation to ensure that the construction complies with the approved permit documents and to implement this program of special inspections. In partial fulfillment of these obligations, the Owner will retain and directly pay for the Special Inspections as required in CBC Section 1704.2.

This plan has been developed with the understanding that the Building Official will:

(Continued)

- Review and approve the qualifications of the Special Inspectors who will perform the inspections
- Monitor special inspection activities on the job site to assure that the Special Inspectors are qualified and are performing their duties as called for in this Statement of Special Inspection
- Review submitted inspection reports
- Perform inspections as required by CBC and MPMC

Pre	par	ed	by:
-----	-----	----	-----

Registered Design Professional in I	Responsible Charge		
Signature			Date
Owner's Authorization:			ed Design Professional or
		Agency who is his linspector or Special controls.	iring the Special cial Inspection Agency
Owner			
Phone Number		Name	Phone Number
Signature	Date		Date
Oignataio	Date		Date

(Continued)

#### Schedule of Inspection, Testing Agencies, and Inspectors

The following are the testing agencies and special inspectors that will be retained to conduct tests and inspection on this project.

Responsibility	Firm	Address/Telephone/Email
Special Inspection     (except for     geotechnical)		
2. Material Testing		
Geotechnical Inspections		

### Seismic Requirements (Section 1704.3.2)

Description of seismic-force-resisting system and designated seismic systems subject to special

inspections as per Section 1705.12 or 1705.13:
The extent of the seismic-force-resisting system is defined in more detail in the construction documents
Wind Requirements (Section 1704.3.3)
Description of wind-force-resisting system and designated wind resisting components subject to special inspections as per Section 1705.11:
The extent of the main wind-force-resisting system is defined in more detail in the construction
documents

(Continued)

#### **Schedule of Special Inspections**

#### 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	С	Р	√if Req'd	Notes/Referenced Standards
1704.2.5 – Inspection of Fabricators:				
Fabrication and implementation procedures	_	_		
Fabrication approval	_	_		
1704.6 – 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	_	_		
1705.1.1 - 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
1705.2 – Steel Construction, Quality Assurance per	AISC 3	360		
Fabricator and erector documents (Verify reports and certificates as listed in AISC 360, Chapter N, Paragraph 3.2 for compliance with construction documents. Includes structural steel, castings, forgings, fasteners, rods, welding, anchors,	_	_		AISC 360: N3.2, N5.7

details,			
	X		AISC: A3
ing,			
<del>)</del> ,	X		AISC 360: N5.7
	X		AISC 360: N5.7
etails at			
	ndom		
	asis		
	) or		
′	ách		
	nt or		
<u> </u>	mber		
1 1 1 1 1 1 1	per		
1 1 1 1	ble		
			AICC 2CO. NE E
	1 1		AISC 360: N5.5
5/16 01	X		N5.5b
/16" or	+		
/ 10 OI	X		N5.5b
los			
162	X		N5.5c
ın.			
	Y		N5.5d
I able A	_ ^		145.50
cator			
Cator	X		N5.5g
	1 1		
ve or			
on in			
	ndom		
Ba			
<u> </u>			See N5.6 for exceptions
6-2) ea			based on installation
joir			method.
mer			
	ble		
ce with			
			AISC 360: N6, Table
	pecified in e.g. ts, elding, be, struction nember details at serve, or ber, the 5.4-1) erve, or ber, the 5.4-2) we, or ber, the 5.4-3) led joints: s 5/16" or soles sen a Table A-ricator erve , or tion, in SC 360, rve the 5.6-2) sen a tasks	l pecified in a.g. ts, elding,	l pecified in .g

	''I OA (	1		ı	
	accordance with QA tasks listed in AISC 360:				tasks for each steel
	Table N6.1				element
	e 1705.3 – Concrete Construction			1	
1.	Inspection of reinforcing steel, including		Х		ACI 318: 3.5, 7.1-7.7
	prestressing tendons, and placement				CBC 1910.4
2.	Inspection of reinforcing steel welding in		_		AWS D1.4
	accordance with Table 1705.3.1				ACI 318: 3.5.2
3.	Inspection of anchors cast in concrete where				ACI 318: 3.8.6, 8.1.3,
	allowable loads have been increased or where		X		21.2.8
	strength design is used.				CBC 1908.5, 1909.1
1	Inspection of anchors post-installed in hardened				ACI 318: 3.8.6, 8.1.3,
٦.	concrete members <sup>1</sup>		Χ		21.2.8
	Concrete members				CBC 1912.1
					ACI 318: Ch.4, 5.2-5.4
5.	Verify use of required design mix		Χ		CBC 1904.2, 1910.2,
					1910.3
6.	At the time fresh concrete is sampled to fabricate				ASTM C 172
	specimens for strength tests, perform slump and	Х			ASTM C 31
	air content tests, and determine the temperature	^			ACI 318: 5.6, 5.8
	of the concrete				CBC 1910.10
7	Increasion of concrete and chaterests also coment				ACI 318: 5.9, 5.10
1.	Inspection of concrete and shotcrete placement	Χ			CBC 1910.6, 1910.7,
	for proper application techniques				1910.8
8.	Inspection for maintenance of specified curing		V		ACI 318: 5.11-5.13
	temperature and techniques		Х		CBC 1910.9
9.	Inspection of prestressed concrete:				
	a. Application of prestressing forces	Χ			ACI 240, 40.00
	b. Grouting of bonded prestressing tendons in	Х			ACI 318: 18.20
	the seismic-force –resisting system	^			ACI 318: 18.18.4
10.	Erection of precast concrete members		Χ		ACI 318: Ch. 16
11.	Verification of in-situ concrete strength, prior to				
	stressing of tendons in post-tensioned concrete		V		A CL 24 0 . C 2
	and prior to removal of shores and forms from		Х		ACI 318: 6.2
	beams and structural slabs				
12.	Inspect formwork for shape, location and		V		ACI 240, C 4 4
	dimensions of the concrete member being formed		Х		ACI 318: 6.1.1
					TMS 402/ACI 530/ASCE
1705	.4 – Masonry Construction				5, and TMS 602/ACI
	•				530.1/ASCE 6
1.	Compliance with required inspection provisions of				
	the construction documents and the approved		Χ		Art. 1.5
	submittals shall be verified				
2.	Verification of f' <sub>m</sub> and f' <sub>acc</sub> prior to construction				A-4 4 4D
	except where specifically exempted by this code		X		Art. 1.4B
3.	Verification of slump flow and VSI as delivered to	.,			A
	the site for self-consolidating grout	Х			Art. 1.5B.1.b.3
4.	As masonry construction begins, the following			1	1
••	shall be verified to ensure compliance:				
	a. Proportions of site-prepared mortar		Х		Art. 2.6A
	b. Construction of mortar joints		X		Art. 3.3B
	2. Constitution of mortal joints			l	/ (I t. 0.0D

		•	<u>,                                      </u>
<ul> <li>c. Grade and size of prestressing tendons and anchorages</li> </ul>		Х	Art. 3.4, 3.6A
<ul> <li>d. Location of reinforcement, connectors, prestressing tendons and anchorages</li> </ul>		Х	Art. 3.6B
e. Prestressing technique		Χ	Art. 2.4B, 2.4H
f. Properties of thin-bed mortar for AAC masonry	Х	Х	Art. 2.1C Continuous inspection for first 5000 SF of ACC masonry. Periodic inspection required after first 5000 SF
<ol><li>Prior to grouting, verify that the following are in compliance:</li></ol>			
a. Grout space		Χ	Art. 3.2D, 3.2F
b. Grade, type, and size of reinforcement and anchor bolts, and prestressing tendons and anchorages		Х	Art. 2.4, 3.4 & TMS 402/ACI 530/ASCE 5 Sec. 1.16
c. Placement of reinforcement and connectors and prestressing tendons and anchorages		Х	Art. 2.4, 3.4, 3.6A & TMS 402/ACI 530/ASCE 5 Sec. 1.16
d. Proportions of site-prepared grout and prestressing grout for bonded tendons		Х	Art. 2.6B, 2.4G.1.b
e. Construction of mortar joints		Χ	Art. 3.3B
6. Verify during construction:			
a. Size and location of structural elements		Χ	Art. 3.3F
b. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction		х	ACI 530 Sec. 1.16.4.3, 1.17.1
c. Welding of reinforcement	Х		TMS 402/ACI 530/ASCE 5 Sec. 2.1.7.7.2, 3.3.3.4(c), 8.3.3.4(b)
<ul> <li>d. Preparation, construction, and protection of masonry during cold weather (temp. below 40°F) or hot weather (temp. above 90°F)</li> </ul>		Х	Art. 1.8C, 18.D
e. Application and measurement of prestressing force	Х		Art. 3.6B
f. Placement of grout and prestressing grout for bonded tendons is in compliance	Х		Art. 3.5, 3.6C
g. Placement of AAC masonry units and construction of thin-bed mortar joints	Х	X	Art. 3.3B.8 Continuous inspection required for first 5000 SF of AAC masonry. Periodic inspection required after first 5000 SF
<ol><li>Observe preparation of grout specimens, mortar specimens, and/or prisms</li></ol>		Х	Art. 1.4B.2.a.3, 1.4B.2.b.3, 1.4B.3, 1.4B.4
8. Risk Category IV Engineered Masonry Structures shall have special inspections per TMS 402/ACI	_	_	TMS 402/ACI 530/ASCE 5 Sec. 1.19, CBC

	530/ASCE 5 Table 1.19.3 – Level C Quality				1705.4.1
	Assurance (QA). Empirically designed masonry				
	structures shall comply with Level B QA				
9.	Vertical masonry foundation elements:				
	Inspections shall be performed in accordance				
	with Section 1705.4 for vertical masonry	_	_		
	foundation elements				
1705	.5 - Wood Construction	1			
	Inspect prefabricated wood structural elements				
	and assemblies in accordance with Section	l	_		
	1704.2.5				
2	Inspect site built assemblies:				
۷.	a. High Load Diaphragms: Verify grade and				
	thickness of structural panel and sheathing,				
	framing members at adjoining edges,		Χ		
	nails/staple diameter and length, number of				
	fastener lines, and spacing between fasteners				
	in each line and at edge margins				
	b. Metal-plate-connected wood trusses spanning				
	more than 60 feet: Verify that temporary				
	installation restraint bracing and the		Х		
	permanent individual truss member restraint				
	bracing are installed in accordance with the				
	approved truss submittal package				
	.6 – Verification and Inspection of Soils				
1.	Verify materials below shallow foundations are		Х		
	adequate to achieve the design bearing capacity		^		
2.	Verify excavations are extended to proper depth		V		
	and have reached proper material		Х		
3.	Perform classification and testing of compacted		V		
	fill materials		Х		
4.	Verify use of proper materials, densities and lift				
	thicknesses during placement and compaction of	Χ			
	compacted fill				
5.	Prior to placement of compacted fill, observe				
	subgrade and verify that site has been prepared		Х		
	properly		, ,		
1705	.7 - Verification and Inspection of Driven Deep F	ound	ation	Elemen	nts
	Verify element materials, sizes, and lengths				
	comply with the requirements	X			
2	Determine capacities of test elements and	1			
	conduct additional load tests, as required	X			
3	Observe driving operations and maintain				
٥.	complete and accurate records for each element	X			
1	Verify placement locations and plumbness,				
4.	confirm type and size of hammer, record number				
	of blows per foot of penetration, determine	Χ			
	required penetrations to achieve design capacity,				
	record tip and butt elevations and document any				
1	damage to foundation element				

					1
	For steel elements, perform additional inspections	_	_		
	n accordance with Section 1705.2				
_	For concrete elements and concrete-filled				
	elements, perform additional inspections in		_		
	accordance with Section 1705.3				
	For specialty elements, perform additional				
	nspections as determined by the registered	_	_		
	design professional in responsible charge	<u> </u>			
	S – Verification and Inspection of Cast-in-place	Deep	Four	idation I	Elements
	Observe drilling operations and maintain	Х			
	complete and accurate records for each element				
	/erify placement locations and plumbness,				
	confirm element diameters, bell diameter,				
	engths, embedment into bedrock and adequate	X			
	end-bearing strata capacity. Record concrete or				
	grout volumes				
	For concrete elements, perform additional	_	_		
	nspections in accordance with Section 1705.3				
	– Helical Pile Foundations		1	ı	
	Record installation equipment used, pile				
	dimensions, tip elevations, final depth, final	Х			
	nstallation torque, and other pertinent data as				
	equired				
	1 - Verification and Inspection for Wind Resist	ance			
	Structural Wood Special Inspections for Wind				
	Resistance:		1	ı	
a	a. Inspection of field gluing operations of				
	elements of the main windforce-resisting	X			
	system				
b	b. Inspection of nailing, bolting, anchoring, and				
	other fastening of components within the main		Х		
	windforce-resisting system				
	Cold-formed Steel Special Inspections for Wind				
	Resistance:				
a	a. Inspection during welding operations of				
	elements of the main windforce-resisting		Х		
	system				
b	b. Inspections for screw attachment, bolting,				
	anchoring and other fastening of components		Х		
	within the main windforce-resisting system				
3. V	Wind-resisting Components:				
а	a. Roof cladding		Χ		
b	o. Wall cladding		Χ		
1705.1	2 - Verification and Inspection for Seismic Res	sistan	се		
1. 5	Structural Steel: Inspection in accordance with				CBC 1705.12.1, AISC
P	AISC 341 – Welding, Nondestructive Testing,	1	ee blo		341: Chapter J Quality
	High-strength bolting, Composite Structures,		ble		Control and Quality
	Piling, Etc.	JX	XX		Assurance
	Structural Wood:			-	CBC 1705.12.2
	a. Inspection of field gluing operations of	Х			

			1 1				
	elements of the seismic-force resisting system						
	b. Inspection of nailing, bolting, fastening, and						
	other fastening of components within the						
	seismic-force-resisting system, where the	X					
	fastener spacing of the sheathing is 4 inches						
	or less on-center						
3.	Cold-formed Steel Light-Frame Construction:		1	CBC 1705.12.3			
	Inspection during welding operations of	X					
	elements of the seismic-force-resisting system	^					
	b. Inspection of screw attachment, bolting,						
	anchoring, and other fastening of components						
	within the seismic-force-resisting system	X					
	where the sheathing is wood structural panels	^					
	or steel sheets with fastener spacing 4 inches						
	or less on-center						
4.	Designated Seismic Systems Verification for						
	Nonstructural Components: Inspect and verify						
	that the component label, anchorage or mounting	X	X	X		ASCE 7, Chapter 13	
	conforms to the certificate of compliance in						
	accordance with Section 1705.12.4						
5.	Architectural Components: Erection and						
	fastening of exterior cladding (more than 5 psf),						
	interior (more than 15 psf) and exterior	X		CBC 1705 10 5			
	nonbearing walls, and interior and exterior veneer	^		CBC 1705.12.5			
	(more than 30 feet in height and more than 5 psf).						
	Anchorage of access floors						
6.	Mechanical and Electrical components:			CBC 1705.12.6			
	Anchorage of electrical equipment for	Х					
	emergency or standby power systems	^					
	b. Installation of anchorage of other electrical	Х					
	equipment	^					
	c. Installation of piping systems intended to carry						
	flammable, combustible, or highly toxic	Х					
	contents and their associated mechanical units						
	d. Installation of HVAC ductwork that will contain	V					
	hazardous materials	X					
	e. Installation of vibration isolation systems						
	where the construction documents require a						
	nominal clearance of 1/4 inch or less between	X					
	the equipment support frame and restraint						
7.	Storage Racks: Inspection is required during the						
	anchorage of storage racks 8 feet or greater in	Х		CBC 1705.12.7			
	height						
8.	Seismic Isolation Systems: Fabrication and						
	installation of isolator units and energy dissipation			000 4705 40 0			
	devices that are part of the seismic isolation	X		CBC 1705.12.8			
	system						
1705	.13 – Testing and Qualification for Seismic Resis	tance	1				
	Concrete Reinforcement: Applies where			000 1707 10 1			
	reinforcement is used to resist earthquake-			CBC 1705.13.1			
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2						

induced flexural and axial forces in special							
moment frames, special structural walls, and							
coupling beams connecting special structural							
walls		ı					
Review certified mill test reports for each	_	_					
shipment of reinforcement							
b. Verify weldability where reinforcement	_	_					
complying with ASTM A 615 is welded				CBC 1705.13.2			
Structural Steel: Testing shall be in accordance	Se	ee		AISC 341: Chapter J			
with quality assurance requirements of AISC 341	Ta	ble		Quality Control and			
with quality assurance requirements of Aloc 541	Jx	XX		Quality Assurance			
Seismic Certification of Nonstructural				Quality Assurance			
Components: Review and acceptance of							
certificate of compliance by registered design	_	_		CBC 1705.13.3			
professional with submittal of the review and				ASCE 7 Sec. 13.2			
certificate and to the Building Official							
4. Seismic Isolation Systems: Tested in accordance				CDC 4705 40 4			
with Section 17.8 of ASCE7				CBC 1705.13.4			
1705.14 - Sprayed Fire-resistant Materials							
Special inspections shall include the following tests and of	observ	/ation	s to dem	nonstrate compliance with			
the listing and fire resistance rating:							
Condition of substrates	_	_					
Thickness of application	_	_		ASTM E605			
Density in pounds per cubic foot	_	_		ASTM E605			
Bond strength adhesion/cohesion	_	_		ASTM E736			
Condition of finished application	_	_					
1705.15 – Mastic and Intumescent Fire-resistant Coatings							
Special inspection for mastic and intumescent fire							
resistive coatings applied to structural elements and	_	_		AWCI 12-B			
decks							
1705.16 - Exterior Insulation and Finish Systems (EIF	-S)	l	ı	I			
Inspection required for all EIFS installations							
Exceptions: EIFS installed over a water-resistive							
barrier with means of draining moisture to the							
exterior and EIFS installed over masonry or concrete							
Special inspection of the water-resistive barrier							
coating when installed over a sheathing substrate	_	_		ASTM E2570			
1705.17 – Fire-resistant Penetrations and Joints							
Applicable to high-rise buildings or in buildings assigned	to Ris	k Cat	egory II	or IV			
Penetration firestops	_	_	l gory ii	ASTM E2174			
Fire-resistance joint systems	_	_		ASTM E2393			
1705.18 – Testing Scope for Smoke Control Systems	I	I					
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							

(Continued)

verification							
1706 – 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	_	_					
<ol> <li>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</li> </ol>	_	_					
1707 – Alternate Test Procedure							
Testing required as a condition of approval of alternate materials, design and methods of construction and equipment	_	_		CBC 104.11, CBC 1701.2			
1708 – In-Situ Load Tests for Completed Construction							
Load Test Procedure Specified: An applicable load test procedure and acceptance criteria in CBC Chapter 35 Referenced Standards applies	_	_		CB Chapter 35, 1709.2			
Load Test Procedures Not Specified: The existing structure/construction is subjected to a test procedure developed by a registered design professional	-	_		CBC Chapter 16, 1604.3, 1709.3			
1709 – Test Safe Load and 1710 (Preconstruction Load Tests)							
Load Test Procedures Specified: An applicable load test procedure and acceptance criteria in CBC Chapter 35 Referenced Standards applies	_	_		CBC Chapter 35, 1710.2			
Load Test Procedures Not Specified: Proposed structure is subjected to a test procedure developed by a registered design professional	_	_		CBC Chapter 16, 1604.3, 1710.3			
Wall and partition assemblies	_	_		CBC 1710.4			
Exterior window and door assemblies	_			CBC 1710.5			
5. Skylights	_	_		CBC 1710.6			

<sup>&</sup>lt;sup>1</sup> Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with ACI 355.2 or other qualification procedures. Where specific requirements are not provided, special inspection requirements shall be specified by the registered design professional and shall be approved by the Building Official prior to the commencement of the work.