

INSTRUCTIONS

- 1) Complete Form HECO-6a, the "Statement of VUSBC Special Inspections" cover page. (Click on the "HECO-6a" tab below to access it.)
- 2) Form HECO-6b to be filled out by the projects registered design professional(s), "2021 USBC Special Inspections" list. (Click on the "HECO-6b" tab below to access it.)
- 3) Obtain the Structural Engineer of Record, A/E of Record, and Smoke Control RDP signatures for the HECO-6a form.
- 4) Submit both forms in PDF format with the Office of University Building Official as part of the review submission. Forms are to be incorporated into the specifications or a single manual if no project specifications are provided. Do not provide excel format forms and do not provide forms on the drawings.
- 5) Include a copy of the original completed HECO-6a and -6b in the Project's original files.

STATEMENT OF STRUCTURAL & SPECIAL INSPECTIONS

2021 Code Version
(Revised 01/13/25)

HECO-6a

DATE: _____

PROJECT TITLE: _____

PROJECT CODE/ PROJECT #: _____

A/E OF RECORD: _____

The following firms and/or individuals (with address and telephone number shown) are designated to perform the Structural & Special Inspections designated below. The firm/ individual has the experience, qualifications, certifications and/or licenses required to perform the functions indicated.

TESTING AND INSPECTION SERVICE

SPECIAL INSPECTION & TEST LAB

Name: _____
Address: _____
City/St/Zip: _____
Phone: _____

INSPECTION MANAGER RDP OF RECORD

Name: _____
Address: _____
City/St/Zip: _____
Phone: _____

SMOKE CONTROL TESTING & INSPECTION

Name: _____
Address: _____
City/St/Zip: _____
Phone: _____

UNIVERSITY REPRESENTATIVES & PROJECT STAFF

STRUCTURAL OBSERVATION

Name: _____
Address: _____
City/St/Zip: _____
Phone: _____

CONSTRUCTION MANAGER

Name: _____
Address: _____

PROJECT MANAGER

Name: _____
Address: _____

Inspection and/or Testing responsibilities are indicated on the attached list Structural & Special Inspections Schedule, Form HECO-6b. Copies of all test data and reports shall be provided to the A/E of Record and to the University's Project Manager on a timely basis. The Contractor shall be notified of all deficiencies and discrepancies in a timely manner so that corrective action can be taken.

PROFESSIONAL OVERSIGHT AND CERTIFICATION

STRUCTURAL ENGINEER OF RECORD

Name: _____
Address: _____
City/St/Zip: _____
Phone: _____

(Signature) (Date)

RDP of RECORD

Name: _____
Address: _____
City/St/Zip: _____
Phone: _____

(Signature) (Date)

SMOKE CONTROL RDP

Name: _____
Address: _____
City/St/Zip: _____
Phone: _____

(Signature) (Date)

CODE OFFICIAL'S ACCEPTANCE

Approved: This form is approved by the University Building Official upon acceptance and permitting of the project plans and specifications.

Comments:

Original to: University Project Manager

Copies to: Design Team

Support Staff

Attachment: HECO-6b List of Special Inspections

HECO-6b

| | |
|--------------------------|--|
| Project Title: | |
| Project Code/ Project #: | |

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2021 VUSBC SPECIAL INSPECTIONS

HECO-6b

2021 Code Version
(Revised 01/13/25)

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|---------------------------------|
| Project Title: |
| Project Code/ Project #: |

| MATERIAL/ ACTIVITY | TYPE OF INSPECTION (RDP add lines as needed to identify other required items) | REQ'D THIS PROJ? (Yes) | REFERENCE | INSPECTION / TEST BY | | | | |
|-----------------------|--|---------------------------------|-----------------|-----------------------------------|------------------|--------|--------|--------|
| | | | | SPECIAL INSPECTOR/ TEST LAB | RDP OF RECORD | OTHER: | OTHER: | OTHER: |
| CONCRETE CONSTRUCTION | | | | | | | | |
| Concrete | Reinforcement, including prestressing tendons, verify placement. | | VCC T1705.3 #1 | X (Periodic) | | | | |
| Concrete | Reinforcing bar welding. | | VCC T1705.3 #2 | X, X (Periodic) | | | | |
| Concrete | Inspect anchors cast in concrete | | VCC T1705.3 #3 | X (Periodic) | | | | |
| Concrete | Inspect anchors post-installed. | | VCC T1705.3 #4 | X, X (Periodic) | | | | |
| Concrete | Verify use of required design mix | | VCC T1705.3 #5 | X (Periodic) | | | | |
| Concrete | Concrete test specimens | | VCC T1705.3 #6 | X | | | | |
| Concrete | Concrete and shotcrete placement for proper application. | | VCC T1705.3 #7 | X | | | | |
| Concrete | Verify maintenance of specified curing temperature and techniques. | | VCC T1705.3 #8 | X (Periodic) | | | | |
| Concrete | Prestressed concrete application of forces and grouting. | | VCC T1705.3 #9 | X | | | | |
| Concrete | Precast concrete member erection. | | VCC T1705.3 #10 | X (Periodic) | | | | |
| Concrete | Precast concrete diaphragm connections or reinforcement at joints classified MDE or HDE. | | VCC T1705.3 #11 | X | | | | |
| Concrete | Tolerances of precast concrete diaphragm connections. | | VCC T1705.3 #12 | X (Periodic) | | | | |
| Concrete | Verify in-situ concrete strength. | | VCC T1705.3 #13 | X (Periodic) | | | | |
| Concrete | Inspect formwork. | | VCC T1705.3 #14 | X (Periodic) | | | | |
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2021 VUSBC SPECIAL INSPECTIONS

HECO-6b

2021 Code Version
(Revised 01/13/25)

Project Title:

Project Code/ Project #:

| MATERIAL/ ACTIVITY | TYPE OF INSPECTION (RDP add lines as needed to identify other required items) | REQ'D THIS PROJ? (Yes) | REFERENCE | INSPECTION / TEST BY | | | | |
|-----------------------|---|---------------------------------|---------------------|-----------------------------------|------------------|------------|--------|--------|
| | | | | SPECIAL INSPECTOR/ TEST LAB | RDP OF RECORD | OTHER: | OTHER: | OTHER: |
| MASONRY CONSTRUCTION | | | | Level 1 | Level 2 | Level 3 | | |
| Assurance Level | Indicate Quality Assurance Level (1, 2, 3) | | TMS 402 3.1 | | | | | |
| Masonry - Verify | Verification of compliance of submittals. | | TMS 602 1.6 Table 3 | Required | Required | Required | | |
| Masonry - Verify | Verify f'm and fAAC. | | TMS 602 1.6 Table 3 | Not Required | Required | Required | | |
| Masonry - Verify | Verify slump flow and Visual Stability Index for self-consolidating grout. | | TMS 602 1.6 Table 3 | Not Required | Required | Required | | |
| Masonry - Verify | Verfiy f'm and fAAC, for every 5,000 sq.ft. | | TMS 602 1.6 Table 3 | Not Required | Not Required | Required | | |
| Masonry - Verify | Verify proportions as delivered to the project site. | | TMS 602 1.6 Table 3 | Not Required | Not Required | Required | | |
| Masonry - Inspect | 1a Proportions of site-prepared mortar. | | TMS 602 1.6 Table 4 | Not Required | Periodic | Periodic | | |
| Masonry - Inspect | 1b Grade and size of prestressing tendons and anchorage. | | TMS 602 1.6 Table 4 | Not Required | Periodic | Periodic | | |
| Masonry - Inspect | 1c Grade, type and size of reinforcement, connectors, anchor bolts, and prestresssing tendons and anchorage. | | TMS 602 1.6 Table 4 | Not Required | Periodic | Periodic | | |
| Masonry - Inspect | 1d Prestressing technique | | TMS 602 1.6 Table 4 | Not Required | Periodic | Periodic | | |
| Masonry - Inspect | 1e Properties of thin-bed mortar for AAC masonry | | TMS 602 1.6 Table 4 | Not Required | C/P | Continuous | | |
| Masonry - Inspect | 1f sample panel construction | | TMS 602 1.6 Table 4 | Not Required | Periodic | Continuous | | |
| Masonry - Inspect | 2a Grout Space | | TMS 602 1.6 Table 4 | Not Required | Periodic | Continuous | | |
| Masonry - Inspect | 2b Placement of prestressing tendons and anchorages | | TMS 602 1.6 Table 4 | Not Required | Periodic | Periodic | | |
| Masonry - Inspect | 2c Placement of reinforcement, connectors, and anchor bolts | | TMS 602 1.6 Table 4 | Not Required | Periodic | Continuous | | |
| Masonry - Inspect | 2d Proportions of site-prepared grout and prestressing grout for bonded tendons. | | TMS 602 1.6 Table 4 | Not Required | Periodic | Periodic | | |
| Masonry - Inspect | 3a Materials and procedures with the approved submittals | | TMS 602 1.6 Table 4 | Not Required | Periodic | Periodic | | |
| Masonry - Inspect | 3b Placement of masonry units and mortar joint construction | | TMS 602 1.6 Table 4 | Not Required | Periodic | Periodic | | |
| Masonry - Inspect | 3c Size and location of structural members | | | Not Required | Periodic | Periodic | | |
| Masonry - Inspect | 3d Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction. | | TMS 602 1.6 Table 4 | Not Required | Periodic | Continuous | | |
| Masonry - Inspect | 3e Welding of reinforcement | | TMS 602 1.6 Table 4 | Not Required | Continuous | Continuous | | |
| Masonry - Inspect | 3f Preparation, construction, and protection of masonry during cold or hot weather (<40F or >90F) | | TMS 602 1.6 Table 4 | Not Required | Periodic | Periodic | | |
| Masonry - Inspect | 3g Application and measurement of prestressing force. | | TMS 602 1.6 Table 4 | Not Required | Continuous | Continuous | | |
| Masonry - Inspect | 3h Placement of grout and prestressing grout for bonded tendons is in compliance. | | TMS 602 1.6 Table 4 | Not Required | Continuous | Continuous | | |
| Masonry - Inspect | 3i Placement of AAC masonry units and construction of thin-bed mortar joints. | | TMS 602 1.6 Table 4 | Not Required | C/P | Continuous | | |
| Masonry - Inspect | 4 Observe preparation of grout specimens, mortar specimens, and/or prisms. | | TMS 602 1.6 Table 4 | Not Required | Periodic | Continuous | | |
| Glass Unit | Glass unit masonry and masonry veneer in Risk Category IV | | VCC 1705.4.1 | | | | | |
| Vertical Masonry | Vertical masonry foundation elements | | VCC 1705.4.2 | | | | | |
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2021 VUSBC SPECIAL INSPECTIONS

HECO-6b

2021 Code Version
(Revised 01/13/25)

Project Title:

Project Code/ Project #:

| MATERIAL/ ACTIVITY | TYPE OF INSPECTION (RDP add lines as needed to identify other required items) | REQ'D THIS PROJ? (Yes) | REFERENCE | INSPECTION / TEST BY | | | | |
|-----------------------|---|---------------------------------|------------------|-----------------------------------|------------------|--------|--------|--------|
| | | | | SPECIAL INSPECTOR/ TEST LAB | RDP OF RECORD | OTHER: | OTHER: | OTHER: |
| STEEL CONSTRUCTION | | | | | | | | |
| Fabricator | Quality Control Inspection Of Shop | | VCC 1704.2.5 | X (Periodic) | 2 | | | |
| Steel | Welding | | AISC 360-16 N5.1 | X (Periodic) | | | | |
| Steel | High Strength Bolting | | AISC 360-16 N5.1 | X (Periodic) | | | | |
| Steel | Galvanized structural steel | | AISC 360-16 N5.1 | X (Periodic) | | | | |
| Decking | Cold Form Steel Decking | | VCC 1705.2.2 | X (Periodic) | | | | |
| Joist | 1a open web joist and joist girders end connections. | | VCC T1705.2.3 | X (Periodic) | 2 | | | |
| Joist | 1b1 open web joist and joist girder standard bridging. | | VCC T1705.2.3 | X (Periodic) | 2 | | | |
| Joist | 1b2 open web joist and joist girder other bridging. | | VCC T1705.2.3 | X (Periodic) | 2 | | | |
| Trusses | Cold form steel trusses, span >60 feet | | VCC 1705.2.4 | X (Periodic) | 2 | | | |
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| WOOD CONSTRUCTION | | | | | | | | |
| Wood | Wood material labeling | | VCC 1703.5 | X (Periodic) | 2 | | | |
| Wood | Quality Control Inspection Of Shop Fabrication | | VCC 1704.2.5 | X (Periodic) | 2 | | | |
| Wood | High-load Diaphragms | | VCC 1705.5.1 | X (Periodic) | | | | |
| Wood-Trusses | Metal-plate connected wood trusses, span >60 feet | | VCC 1705.5.2 | X (Periodic) | 2 | | | |
| Mass Timber | Anchorage and connections to timber deep foundation systems | | VCC T1705.5.3 | X (Periodic) | | | | |
| Mass Timber | Inspect erection of mass timber construction | | VCC T1705.5.3 | X (Periodic) | | | | |
| Mass Timber | Inspect connections where installation methods are required to meet design loads - Threaded connections | | VCC T1705.5.3 | X (Periodic) | | | | |
| Mass Timber | Inspect connections where installation methods are required to meet design loads - adhesive anchors - sustained tension loads | | VCC T1705.5.3 | X (Continuous) | | | | |
| Mass Timber | Inspect connections where installation methods are required to meet design loads - other adhesive anchors | | VCC T1705.5.3 | X (Periodic) | | | | |
| Mass Timber | Inspect connections where installation methods are required to meet design loads - bolted connections | | VCC T1705.5.3 | X (Periodic) | | | | |
| Mass Timber | Inspect connections where installation methods are required to meet design loads - concealed connections. | | VCC T1705.5.3 | X (Periodic) | | | | |
| Sealing | Sealants or adhesives where required by section 703.7 | | VCC 1705.20 | X (Periodic) | | | | |
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2021 VUSBC SPECIAL INSPECTIONS

HECO-6b

2021 Code Version
(Revised 01/13/25)

Project Title:

Project Code/ Project #:

| MATERIAL/ ACTIVITY | TYPE OF INSPECTION (RDP add lines as needed to identify other required items) | REQ'D THIS PROJ? (Yes) | REFERENCE | INSPECTION / TEST BY | | | | |
|---|---|---------------------------------|-------------------|-----------------------------------|------------------|--------|--------|--------|
| | | | | SPECIAL INSPECTOR/ TEST LAB | RDP OF RECORD | OTHER: | OTHER: | OTHER: |
| WIND FORCE RESISTANCE | | | | | | | | |
| Wind exposure category B, where V >=150 mph or Wind exposure category C or D, where V >= 140 mph. | | | | | | | | |
| Wood | Field gluing, nailing, bolting, anchoring, and other fastening of MWFRS, including wood shear walls, wood diaphragms, drag struts, braces, and hold downs. | | VCC 1705.12.1 | X (P/C) | | | | |
| Cold Formed Steel | Welding, screw attachment of MWFRS, including shear walls, braces, diaphragms, collectors, and hold downs. | | VCC 1705.12.2 | X (Periodic) | | | | |
| Components | Fastening of the roof covering, roof deck, roof framing connections, exterior wall covering, and wall connections to roof and floor diaphragms and framing. | | VCC 1705.12.3 | X (Periodic) | | | | |
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| SEISMIC RESISTANCE | | | | | | | | |
| Steel | Steel in SFRS for SDC B,C,D,E, or F. | | VCC 1705.13.1.1 | X (Periodic) | | | | |
| Steel | Steel in SFRS for SDC B,C,D,E, or F other than above | | VCC 1705.13.1.2 | X (Periodic) | | | | |
| Wood | Wood in SFRS for SDC C, D, E, or F | | VCC 1705.13.2 | X (P/C) | | | | |
| Cold Formed Steel | Cold Formed Steel for SDC C, D, E, or F | | VCC 1705.13.3 | X (Periodic) | | | | |
| Designated systems | For SDC C,D,E, or F designated seismic systems requiring qualification in accordance with 13.2.2 of ASCE 7 shall be inspected to verify label, anchorage and mounting conform to the certificate of compliance. | | VCC 1705.13.4 | X (Periodic) | | | | |
| Architectural | Inspection is required for erection and fastening of cladding, interior and exterior nonbearing walls and interior/ exterior veneer in SDC D, E, F. | | VCC 1705.13.5 | X (Periodic) | | | | |
| Access Floors | Anchorage of access floors in SDC D, E, or F. | | VCC 1705.13.5.1 | X (Periodic) | | | | |
| MEP components | Inspection of anchorage depending on application, SDC C,D,E, or F. | | VCC 1705.13.6 | X (Periodic) | | | | |
| Storage Racks | Materials used, to verify compliance with one or more of the material test reports in accordance with construction documents. SDC D,E, or F. | | VCC T1705.13.7 #1 | X (Periodic) | | | | |
| Storage Racks | Fabricated storage rack elements SDC D,E, or F. | | VCC T1705.13.7 #2 | X (Periodic) | | | | |
| Storage Racks | Storage rack anchorage installation. | | VCC T1705.13.7 #3 | X (Periodic) | | | | |
| Storage Racks | Completed system, to indicate compliance with construction docs. | | VCC T1705.13.7 #4 | X (Periodic) | | | | |
| Isolation Systems | Systems in seismically isolated structures in SDC B,C,D,E or F | | VCC 1705.13.8 | X (Periodic) | | | | |
| Cold Formed Steel | Cold Formed Steel special bolted moment frames SDC D, E, F | | VCC 1705.13.9 | X (Periodic) | | | | |
| Testing | Structural Steel SDC B, C, D, E, F | | VCC 1705.14.1 | X (Periodic) | | | | |
| Testing | Nonstructural Components SDC B, C, D, E, F | | VCC 1705.14.2 | | 2 | | | |
| Testing | Designated Seismic Systems SDC C, D, E, F | | VCC 1705.14.3 | | 2 | | | |
| Testing | Seismic Isolation Systems SDC B, C, D, E, F | | VCC 1705.14.4 | X (Periodic) | | | | |
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2021 VUSBC SPECIAL INSPECTIONS

HECO-6b

2021 Code Version
(Revised 01/13/25)

Project Title:

Project Code/ Project #:

| MATERIAL/ ACTIVITY | TYPE OF INSPECTION (RDP add lines as needed to identify other required items) | REQ'D THIS PROJ? (Yes) | REFERENCE | INSPECTION / TEST BY | | | | |
|-----------------------|--|---------------------------------|-----------|-----------------------------------|------------------|--------|--------|--------|
| | | | | SPECIAL INSPECTOR/ TEST LAB | RDP OF RECORD | OTHER: | OTHER: | OTHER: |

NOTES:

1. Fabricator, supplier, ready-mixed plant or other production plant shall provide certificates from an approved independent inspection, testing or quality assurance agency attesting that the plant meets at least one of the following criteria:
 - a. The plant is a certified production plant meeting the quality assurance standards of a recognized national standards organization for that product.
 - b. The plant maintains an agreement with an independent inspection or quality assurance agency to conduct periodic in-plant quality assurance inspections. The frequency of these inspections shall not be less than one every six months.
 - c. The plant has an in-shop quality assurance inspection program by an independent testing or quality assurance agency for the work/ product to be provided on this project.
2. A/E shall review fabricator/ supplier/ producer certificates for conformance or compliance with appropriates.
3. Contractor/ supplier shall submit manufacturer's certificates of compliance for the materials/ products as required by VCC 1704.5.
4. A/E shall review records and test results of all special inspections for conformance with requirements.
5. Special Inspection firm shall have expertise in fire protection engineering, mechanical engineering, and certification as an air balancer. The special inspector listed on the cover page and the Agency are responsible for verifying that the inspector(s) for smoke control is qualified as required by VCC 1705.19.2.
6. Unless noted otherwise, the reference numbers listed refer to the 2021 VCC and testing frequency is to be continuous.
7. The Owner's structural observer shall submit a written statement to OUBO identifying the frequency and extent of structural observations as required by VCC 1704.6.
8. VCC 1704.3 requires special inspections for seismic or wind resistance. This statement of inspections shall identify systems or components that are subject to such special inspections or tests in accordance with VCC 1704.3.2 and 1704.3.3. The contractor shall complete, sign and submit the written statement of responsibility in HECO-6c prior to the commencement of work in acknowledgment of awareness of the special inspections as required by VCC 1704.4.