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| --- | --- | --- | --- |
| **The Registered Design Professional shall complete this table with respect to the project scope and include with the DASNY General Requirements, Section 0140001** | | | |
| **Campus/Facility:** | | | |
| **Project Title:** | | | |
| **Project Number:** | **DASNY Project Manager:** | | |
| **Registered Design Professional (RDP):** | | | |
| **Name of Person Completing Statement:** | | **Phone:** | **Date:** |
| **Comments:** | | | |

| **VERIFICATION AND INSPECTION** | **CONTINUOUS** | **PERIODIC** | **2022 NYCBC REFERENCE** | | **CHECK IF REQUIRED** | **SPECIFICATION REFERENCE AND CLARIFYING NOTES**  (by RDP)2 | **COMMENTARY/NOTES**  (by DASNY)3 |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Steel Construction |  |  | 1704.2, 1705.2  Table 1705.2 |  | |  | Fabrication of structural members and field assembly. |
| 1. Material verification of high-strength bolts, nuts, and washers: |  |  |  |  | |  | Includes submittal review and field verification. |
| 1. Identification markings to conform to ASTM standards specified in the approved construction documents. |  | X | AISC 360, Section A3-3;  RCSC Section 2 |  | |  | As specified in the construction documents |
| 1. Manufacturer’s certificate of compliance required. |  | X | RCSC Section 2.1 |  | |  |  |
| 1. Inspection of high-strength bolting: |  |  | 1705.2.3 |  | |  |  |
| 1. Snug-tight joints |  | X |  |  | |  | Turn of the nut bolting shall be continuously inspected. |
| 1. Pre-tensioned and slip- critical joints using turn-of-nut with matchmarking, twist-off bolt or direct tension indicator methods of installation |  | X |  |  | |  | AISC 360 Section M2.5 and RCSC Specification for Structural Joints using High Strength Bolts Section 9. |
| 1. Pre-tensioned and slip critical joints using turn-of-nut without matchmarking or calibrated wrench methods of installation. | X |  |  |  | |  | AISC 360 Section M2.5 and RCSC Specification for Structural Joints using High Strength Bolts Section 9. |
| 1. Pre-installation verification testing. | X |  |  |  | |  | Specification for Structural Joints using High-Strength Bolts Section 8.2. |
| 1. Material verification of structural steel and cold formed steel deck: |  |  |  |  | |  |  |
| 1. For structural steel, identification markings to conform to AISC 360 |  | X |  |  | |  | AISC 360 Section A3.1, N2.1, N3.2(a) and (k)(1) |
| 1. For other steel, identification markings to conform to ASTM Standards specified in the approved construction documents. |  |  |  |  | |  | Applicable ASTM Standards |
| 1. Manufacturers’ certified mill test reports. |  | X |  |  | |  | Applicable ASTM material standards |
| 1. Material verification of weld filler materials |  |  |  |  | |  | Includes (a) review of manufacturer’s certificate of compliance and (b) field verification of identification markings to AWS spec. |
| * 1. Identification of markings to conform to AWS specification in the approved construction documents. | - | - |  |  | |  | AISC 360 Section A3.5 and N3.2(e), and applicable AWS A5 documents; and AWS D1.1 5.3.1 and approved construction documents |
| * 1. Manufacturer’s certificate of compliance required. | - | - |  |  | |  | AISC 360 Section A3.5 |
| 1. Inspection of welding: |  |  |  |  | |  | NDT requirements and frequencies as specified in the Contract Documents. |
| 1. Structural Steel |  |  |  |  | |  |  |
| 1. Complete and partial penetration groove welds. | X |  | 1705.2.1 |  | |  | AWS D1.1 |
| 1. Multi-pass fillet welds | X |  | 1705.2.1 |  | |  | AWS D1.1 |
| 1. Single pass fillet welds greater than 5/16” | X |  | 1705.2.1 |  | |  | AWS D1.1 |
| 1. Plug and slot welds | X |  | 1705.2.1 |  | |  | AWS D1.1 |
| 1. Single pass fillet welds less than or equal to 5/16” |  | X | 1705.2.1 |  | |  | AWS D1.1 |
| 1. Floor and roof deck welds. |  | X |  |  | |  | AWS D1.3 |
| 1. Cold-formed steel welds |  | X |  |  | |  | AWS D1.3 |
| 1. Reinforcing Steel |  |  | 1903.6.2 |  | |  |  |
| 1. Pre-welding verification of base metal |  | X | 1903.6.2 |  | |  | AWS D1.4 |
| 1. Reinforcing steel-resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special reinforced concrete shear walls and shear reinforcement. | X |  | 1903.6.2 |  | |  | AWS D1.4 |
| 1. Shear reinforcement | X |  | 1903.6.2 |  | |  | AWS D1.4  A minimum of 10% of shear studs shall be verified for strength of welded connection. If failure is evident in one or more, then the strength of all shear studs shall be verified. |
| 1. Other reinforcing steel |  | X |  |  | |  | Welding of indirect and direct butt joints shall be continuously inspected. |
| 1. Inspection of steel frame joint details for compliance with the approved construction documents: |  |  | 1705.2.2 |  | |  |  |
| 1. Details such as bracing and stiffening. |  | X | 1705.2.2 |  | |  |  |
| 1. Member locations |  | X | 1705.2.2 |  | |  |  |
| 1. Application of joint details at each connection. |  | X | 1705.2.2 |  | |  |  |
| 1. Verification of welder license/certification and welding procedures. | X |  | 2204.1  Section 28-407.1 of the Administrative Code |  | |  |  |
| 1. Required Inspections of Open-Web Steel Joists and Joist Girders |  |  | 1705.2.7  Table 1705.2.7 |  | |  |  |
| * 1. Inspection of member sizes and locations. |  | X | Table 1705.2.7 |  | |  |  |
| * 1. Inspection of end connections – welded or bolted. |  | X | Table 1705.2.7  2207.1 |  | |  | SJI Specifications |
| * 1. Inspection of standard bridging, horizontal or diagonal. |  | X | Table 1705.2.7  2207.1 |  | |  | SJI Specifications |
| * 1. Inspection of bridging, horizontal or diagonal, that differs from the SJI Specifications listed in Section 2207.1. |  | X | Table 1705.2.7 |  | |  | SJI Specifications |
| Cold-Formed Steel Construction |  |  | 1705.2.6  Table 1705.2.6 |  | |  |  |
| 1. Material Verification |  |  |  |  | |  |  |
| 1. Verify that identification markings conform to AISI S240 and as specified in the approved construction documents. | X |  | Table 1705.2.6 |  | |  | AISI S240, Section D6.5 |
| 1. Verify that material is clean, straight and undamaged. |  | X | Table 1705.2.6 |  | |  |  |
| 1. Inspection of General Framing |  |  |  |  | |  |  |
| 1. Verify that member sizes conform to the approved construction documents. |  | X | Table 1705.2.6 |  | |  | AISI S240 Section C |
| 1. Verify that member layout conforms to the approved construction documents. |  | X | Table 1705.2.6 |  | |  |  |
| 1. Verify that proper bearing lengths are provided in accordance with the approved construction documents. |  | X | Table 1705.2.6 |  | |  |  |
| 1. Verify that punched holes and sheared or flame cut edges of material in members are clean and free from notches and burred edges |  | X | Table 1705.2.6 |  | |  |  |
| 1. Inspection of framing connections and anchorages: |  |  |  |  | |  |  |
| 1. Verify that screws, bolts, and other fasteners conform to approved construction document requirements for diameter, length, quantity, spacing, edge distance and location. |  | X | Table 1705.2.6 |  | |  | AISI S240 Section D6.7 |
| 1. Verify that manufactured connectors, such as joist hangars, caps, straps, clips, ties, hold-downs and anchors conform to approved construction document requirements for manufacturer, type, gauge, and fastener requirements. |  | X | Table 1705.2.6 |  | |  | AISI S240 Section B1.5 and Section C4 |
| 1. Post-installed connections to concrete. | X |  | Table 1705.2.6 |  | |  | AISI S240 Section D6.9 |
| 1. Inspection of Welding |  |  |  |  | |  |  |
| * 1. Inspect welds in accordance with S240 Section D6.6. |  | X | Table 1705.2.6 |  | |  | AWS D1.3, AISI S240 Section D6.6 |
| * 1. Additional requirements for welds performed as a part of a lateral force-resisting system. | X |  | Table 1705.2.6 |  | |  | AISI S240 Section D6.9. In accordance with AISI S240 Section D6.9.1, continuous special inspection of weld fit-up in lateral force-resisting systems may be reduced to periodic special inspection upon fulfillment of the conditions of Section D6.9.1. |
| 1. Bracing |  |  |  |  | |  |  |
| a. Verify that temporary bracing, shoring, jacks, etc., are installed and not removed until no longer necessary, in accordance with the approved construction documents and approved erection drawings. |  | X | Table 1705.2.6 |  | |  | AISI S240 Section 6 |
| b. Verify that permanent bracing, web stiffeners, bridging, blocking, wind bracing, etc., are installed in accordance with the approved construction documents and approved erection drawings. |  | X | Table 1705.2.6 |  | |  | AISI S240 Section 6 |
| c. Where a cold-formed steel truss clear span is 60 feet or greater, the special inspector shall verify that the temporary installation restraint/bracing and the and the permanent individual truss member restraint/bracing are installed in accordance with the approved truss submittal package. |  | X | 2211.1.3.2 |  | |  | AISI S240 Section 6. |
| 1. Pre-Installation Document Submittals |  | X | Table 1705.2.6 |  | |  | AISI S240, Section D3 |
| 1. Lateral Force-Resisting System Additional Requirements |  | X | Table 1705.2.6 |  | |  | AISI S240, Section D6.9 |
| Concrete Construction |  |  | 1704.2, 1705.3,  Table 1705.3 |  | |  | Includes inspection of fabricators (precast) where applicable per BC 1704.2. |
| 1. Inspect reinforcement, including prestressing tendons and verify placement. |  | X | 1903.6.2  1907.1  1907.7  1911.4 |  | |  | ACI 318: Sections 3.5, 7.1-7.7 |
| 1. Inspection of reinforcing steel welding in accordance with 1705.2, Item 5b.. | - | - | 1903.5.2 |  | |  | AWS D1.4; ACI 318 Section 3.5.2 |
| 1. Inspect anchors cast in concrete. | X |  | 1901.3 |  | |  | ACI 318 Section 17.8.2 |
| 1. Inspect anchors post-installed in hardened concrete members. |  |  | 1912.1 |  | |  | ACI 318 Section 17.8; Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with 17.8.2 in ACI 318, 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 commissioner prior to the commencement of work. |
| * 1. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads. | X | X |  |  | |  | ACI 318 Section 17.8 |
| * 1. Mechanical anchors and adhesive anchors not defined in 4a. | X | X |  |  | |  | ACI 318 Section 17.8 |
| 1. Verifying use of required design mix. |  | X | 1904, 1905.2-1905.4, 1911.3 |  | |  | ACI 318: Chapter 4, 5.2-5.4.  Submittal review. Batch plant inspection as specified in the contract documents. |
| 1. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of concrete. Determine water content when requirement. | - | - | 1905.6, 1911.10 |  | |  | ASTM C172, ASTM C31, ACI 318: 5.6, 5.8.  Standard sampling rate shall be in accordance with Section 1905.6.2. 4” x 8” cylinders may be accepted in lieu of 6” x 12” cylinders at the option of the Engineer of Record. |
| 1. Inspection of concrete and shotcrete placement for proper application techniques. |  |  | 1905.9,1905.10, 1911.6, 1911.7, 1911.8 |  | |  | ACI 318: 5.9, 5.10. Also includes precast and shotcrete placement. For precast inspection (in-plant) specify PCI-MNL116 |
| * 1. Inspect concrete and shotcrete placement for proper application techniques. | X |  | 1905.9,1905.10, 1911.6, 1911.7, 1911.8 |  | |  | ACI 318: 5.9, 5.10. Also includes precast and shotcrete placement. For precast inspection (in-plant) specify PCI-MNL116 |
| * 1. For concrete pumped through a placement boom: Following the lubrication of the concrete placement boom and prior to Contractor’s commencement of the concrete pour, observe and document as part of the special inspection of the concrete placement whether the material exiting the hose is concrete exhibiting a uniform matrix of aggregate. | X |  | 1905.9,1905.10, 1911.6, 1911.7, 1911.8 |  | |  | ACI 318: 5.9, 5.10. Also includes precast and shotcrete placement. For precast inspection (in-plant) specify PCI-MNL116 |
| 1. Verify maintenance of specified curing temperature and techniques. Monitoring of in-place temperatures per thermal protection plan when required. |  | X | 1905.11, 1905.13, 1911.9 |  | |  | ACI 318: 5.11-5.13.  Field inspection of curing process. |
| 1. Inspect prestressed concrete for: |  |  |  |  | |  |  |
| 1. Application of pre-stressing forces | X |  |  |  | |  | ACI 318: 18.20  ACI 318: 18.18.4 |
| 1. Grouting of bonded pre-stressing tendons | X |  |  |  | |  | ACI 318: 18.20  ACI 318: 18.18.4 |
| 1. Inspect erection of precast concrete members. |  | X |  |  | |  | ACI 318: Chapter 16.  Specify PCI-MNL127. |
| 1. Verify in-situ strength, prior to stressing of tendons in post tensioned concrete and prior to removal of shores and forms from beams and structural slabs. |  | X | 1906.2 |  | |  | ACI 318: 6.2.  Review field testing and laboratory reports. |
| 1. Inspect formwork for shape, location and dimensions of the concrete member being formed. | X |  | 1906.2 |  | |  | ACI 318: 6.1.1. |
| Masonry Construction LB = Level B Inspection  LC = Level C Inspection |  |  | 1705.4  Table 1705.4.1 Table 1705.4.3 |  | |  |  |
| **Level B Required Special Inspections and Tests of Masonry Construction** | | | | | | | |
| Minimum Tests | | | | | | | |
| Verification of slump flow and Visual Stability Index (VSI) as delivered to the project site in accordance with TMS 602 Article 1.5.B.1.b.3 for self-consolidating grout. | | | | | | | |
| Verification of f’m and f’aac in accordance with TMS 602 Article 1.4B prior to construction, except where specifically exempted by this Code. | | | | | | | |
| Minimum Special Inspection | | | | | | | |
| 1. Verify compliance with inspection provisions of construction documents and approved submittals. |  | X | Table 1705.4.1 |  | |  | TMS 602 Art 1.5 |
| 1. As masonry construction begins, the following shall be verified to ensure compliance: |  |  | Table 1705.4.1 |  | |  |  |
| 1. Proportions of site-prepared mortar |  | X |  |  | |  | TMS 602 Art. 2.6A |
| 1. Construction of mortar joints |  | X |  |  | |  | TMS 602 Art. 3.3B |
| 1. Grade and size of prestressing tendons and anchorages. |  | X |  |  | |  | TMS 602 Art. 2.4B, 2.4H |
| 1. Location of reinforcement, connectors, pre-stressing tendons and anchorages. |  | X |  |  | |  | TMS 602 Art. 3.4, 3.6A |
| 1. Prestressing technique. |  | X |  |  | |  | TMS 602 Art. 3.6B |
| 1. Prior to Grouting, the following shall be verified to ensure compliance: |  |  | Table 1705.4.1 |  | |  |  |
| * 1. Grout space. |  | X |  |  | |  | TMS 602 Art. 3.2D |
| * 1. Grade, type and size of reinforcement and anchor bolts, and prestressing tendons and anchorages. |  | X |  |  | |  |  |
| * 1. Placement of reinforcement, connectors, and prestressing tendons and anchorages. |  | X |  |  | |  | TMS 402 Sec. 1.13,  TMS 602 Art. 3.4 |
| * 1. Proportions of site-prepared grout and prestressing grout for bonded tendons. |  | X |  |  | |  | TMS 602 Art. 2.6B |
| * 1. Construction of mortar joints. |  | X |  |  | |  | TMS 602 Art. 3.3B |
| 1. Verify during construction: |  |  | Table 1705.4.1 |  | |  |  |
| * 1. Size and location of structural elements. |  | X |  |  | |  | TMS 602 Art. 3.3F |
| * 1. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction. |  | X |  |  | |  | TMS 402 Sec. 1.2.1(e), 14.4.3 |
| * 1. Welding of reinforcement. | X |  |  |  | |  | TMS 402 Section 1.2.1(g), 6.1.6.2, 6.1.7.3, 13.7 |
| * 1. Preparation, construction, and protection of masonry during cold weather (temperature below 40dF) or hot weather (temperature above 90dF). |  | X | 2104.2, 2104.3 |  | |  | TMS 402 Section 3.1.3  TMS 602 Art. 1.8C, 1.8D |
| * 1. Preparation of any required grout specimens, mortar specimens and /or prisms shall be observed. |  | X |  |  | |  | TMS 402 Art. 3.1.3  TMS 602 Art. 1.4 |
| * 1. Application and measurement of prestressing force. | X |  |  |  | |  | TMS 602 Art. 3.6B |
| * 1. Placement of grout and prestressing grout for bonded tendons is in compliance. | X |  |  |  | |  | TMS 602 Art. 3.5, 3.6C |
| * 1. Placement of AAC masonry units and construction of thin-bed mortar joints. | X | X |  |  | |  | TMS 602 Art. 3.3 B.9, 3.3 F.1.b  Continuous inspection required for the first 5,000 square feet of AAC masonry, Periodic inspection required after the first 5,000 square feet of AAC masonry. |
| * 1. Grout space is clean. |  | X |  |  | |  | TMS 602 Art. 3.2D |
| * 1. Placement of reinforcement and connections, and prestressing tendons and anchorages. |  | X |  |  | |  | TMS 402 Section 6.1.3 and 10.8  TMS 602 Art. 3.3B |
| * 1. Proportions of site-prepared grout and prestressing grout for bonded tendons. |  | X |  |  | |  | TMS 602 Art. 2.6B |
| * 1. Construction of mortar joints. |  | X |  |  | |  | TMS 602 Art. 3.3B |
| 1. Observe preparation of grout specimens, mortar specimens, and /or prisms. |  | X | Table 1705.4.1 |  | |  | TMS 602 Art. 1.4B2a3, 1.4B2b3, 1.4B2c3, 1.4B3, 1.4B4, 2.1A |
| **Level C Required Special Inspections and Tests of Masonry Construction** | | | | | | | |
| Minimum Tests | | | | | | | |
| Verification of f’m and f’aac in accordance with TMS 602 Article 1.4B prior to construction and every 5,000 square feet during construction. | | | | | | | |
| Verification of proportions of materials in premixed or preblended mortar, prestressing grout, and grout other than self-consolidating grout, as delivered to the project site in accordance with TMS 602 Article 1.5B. | | | | | | | |
| Verification of Slump flow and Visual Stability Index (VSI) as delivered to the project site in accordance with TMS 602 Article 1.5.B.1.b.3 for self-consolidating grout. | | | | | | | |
| Minimum Special Inspection | | | | | | | |
| 1. Verify compliance with inspection provisions of construction documents and approved submittals. |  | X | Table 1705.4.3 |  | |  | TMS 602 Art 1.5 |
| 1. Verify that the following are in compliance: |  |  | Table 1705.4.3 |  | |  |  |
| 1. Proportions of site-prepared mortar, Grout and prestressing grout for bonded tendons. |  | X |  |  | |  | TMS 602 Art. 2.6A |
| 1. Grade, type, and size of reinforcement and anchor bolts, and prestressing grout for bonded tendons. |  | X |  |  | |  | TMS 402 Section 6.1.2, 10.8  TMS 602 Art. 2.4, 3.4 |
| 1. Placement of masonry units and construction of mortar joints. | X | X |  |  | |  | TMS 602 Art. 3.3B |
| 1. Placement of reinforcement, connectors, prestressing tendons and anchorages. |  | X |  |  | |  | TMS 402 Section 6.1.2, 10.8  TMS 602 Art. 3.4, 3.6A |
| 1. Grout space prior to grouting. | X |  |  |  | |  | TMS 602 Art. 3.2D |
| 1. Placement of grout and prestressing grout for bonded tendons. | X |  |  |  | |  | TMS 602 Art. 3.5 |
| 1. Placement of prestressing grout. | X |  |  |  | |  | TMS 602 Art. 3.6C |
| 1. Size and location of structural elements. |  | X |  |  | |  | TMS 602 Art. 3.3F |
| 1. Type, size and location of anchors, including other details of masonry to structural members, frames, or other construction. | X |  |  |  | |  | TMS 402 Section 1.2.1(e), 14.4.3 |
| 1. Welding of reinforcement. | X |  |  |  | |  | TMS 402 Section 1.2.1(g), 6.1.6.1.2, 6.1.7.3, 13.7 |
| 1. Preparation, construction and protection of masonry during cold weather (temperature below 40dF) or hot weather (temperature above 90dF). |  | X | Sec. 2104.2, 2104,3 |  | |  | TMS 602 Art. 1.8C, 1.8D |
| 1. Application and measurement of prestressing force. | X |  |  |  | |  | TMS 602 Art. 3.6B |
| 1. Placement of AAC masonry units and construction of thin-bed mortar joints. | X |  |  |  | |  | TMS 602 Art. 3.3B.9, 3.3F.1.b |
| 1. Properties of thin-bed mortar for AAC masonry. | X |  |  |  | |  | TMS 602 Art. 2.1 C.1 |
| 1. Observe preparation of grout specimens, mortar specimens, and/or prisms. | X |  | Table 1705.4.3 |  | |  | TMS 402Section 3.1.3  TMS 602 Art. 1.4 |
| 1. **Wood Construction**: |  |  | 1705.5  1704.6 |  | |  | Fabrication of prefabricated structural elements and site-built assemblies. |
| 1. Installation of high-load diaphragms |  | X | 1705.5.1  1704.1 |  | |  |  |
| 1. Metal-plate-connected wood trusses |  | X | 1705.5.2  1704.1 |  | |  |  |
| 1. Pre-fabricated wood I-joists |  | X | 1705.5.3  1704.2 |  | |  |  |
| 1. Other structural wood construction |  | X | 1705.5.4  110.3.3 |  | |  | Progress inspection per BC 110.3.3. |
| 1. Type IV Construction |  |  | 1705.5.6  Table 1705.5.6 |  | |  |  |
| * 1. Inspection of anchorage and connections of mass timber construction to timber deep foundation systems |  | X | 1705.7,  2308.3,  2304.10 |  | |  |  |
| * 1. Inspect erection of mass timber, including material verification. |  | X | 2303.1.4,  2303.1.10 |  | |  | PRG-320, ASTM D5456 |
| * 1. Inspection of connections where installation methods are required to meet design loads. |  |  | 2304.10, 2304.11.1.1 to 2304.11.4 |  | |  | NDS 11-14 ANSI/ASME Standard B18.2.1, B18.6.1 as per connection manufacturer’s installation instructions. |
| * + 1. Threaded fasteners |  | X | 2304.10, 2304.11.1.1 to 2304.11.4 |  | |  | NDS 11-14 ANSI/ASME Standard B18.2.1, B18.6.1 as per connection manufacturer’s installation instructions. |
| 1. Verify use of proper installation equipment |  | X | 2304.10, 2304.11.1.1 to 2304.11.4 |  | |  | NDS 11-14 ANSI/ASME Standard B18.2.1, B18.6.1 as per connection manufacturer’s installation instructions. |
| 1. Verify use of pre-drilled holes where required |  | X | 2304.10, 2304.11.1.1 to 2304.11.4 |  | |  | NDS 11-14 ANSI/ASME Standard B18.2.1, B18.6.1 as per connection manufacturer’s installation instructions. |
| 1. Inspect screws, including diameter, length, head type, spacing, installation angle, and depth |  | X | 2304.10, 2304.11.1.1 to 2304.11.4 |  | |  | NDS 11-14 ANSI/ASME Standard B18.2.1, B18.6.1 as per connection manufacturer’s installation instructions. |
| * + 1. Adhesive anchors installed in horizontal or upwardly inclined orientation to resist sustained tension loads | X |  | 2304.10, 2304.11.1.1 to 2304.11.4 |  | |  | NDS 11-14 ANSI/ASME Standard B18.2.1, B18.6.1 as per connection manufacturer’s installation instructions. |
| * + 1. Adhesive anchors not defined in 3.2 |  | X | 2304.10, 2304.11.1.1 to 2304.11.4 |  | |  | NDS 11-14 ANSI/ASME Standard B18.2.1, B18.6.1 as per connection manufacturer’s installation instructions. |
| * + 1. Bolted connections |  | X | 2304.10, 2304.11.1.1 to 2304.11.4 |  | |  | NDS 11-14 ANSI/ASME Standard B18.2.1, B18.6.1 as per connection manufacturer’s installation instructions. |
| * + 1. Concealed connections |  | X | 2304.10, 2304.11.1.1 to 2304.11.4 |  | |  | NDS 11-14 ANSI/ASME Standard B18.2.1, B18.6.1 as per connection manufacturer’s installation instructions. |
| * + 1. Other fastener types |  | X |  |  | |  |  |
| 1. Inspection of connections where installation methods are required to meet the fire resistance design in 2304.10.8 |  | X |  |  | |  | NDS 16.3 |
| Subsurface Conditions |  |  | 1705.6  Table 1705.6 |  | |  |  |
| 1. Special Inspection of subsurface investigations, borings and test pits. | X |  | Table 1705.6  1803 |  | |  | Continuous inspection to verify compliance with Section 1803. |
| 1. During fill placement | X |  | Table 1705.6  1804.5 |  | |  | Review submittals, field testing and inspection. Verify soil types and lift thickness comply with the approved geotechnical report as specified in Section 1804.5. |
| 1. Evaluation of in-place density | X |  | Table 1705.6 |  | |  | Determine that the in-place dry density of the compacted fill complies with the approved construction documents. |
| 1. Subgrade inspection |  | X | Table 1705.6 |  | |  | Field inspection and testing to verify that the site has been prepared and is in accordance with the approved geotechnical report. |
| 1. **Deep foundation elements** | X |  | 1705.7  Table 1705.7 |  | |  | The approved geotechnical report and construction documents prepared by the registered design professionals shall be used to determine compliance. |
| 1. Required Special Inspections and tests of Deep Foundation Elements |  |  | Table 1705.7 |  | |  |  |
| * 1. Verify the identifying designation of the deep foundation element and record the date of installation including the start and end times. | X |  | Table 1705.7 |  | |  |  |
| * 1. Verify the size, material, and allowable capacity as specified in the construction documents. | X |  | Table 1705.7 |  | |  |  |
| * 1. Record the elevation of the minimum required depth of penetration and record the final tip elevation and butt elevation. | X |  | Table 1705.7 |  | |  |  |
| * 1. Record the elevation of splices and note whether or not the splices were installed and located in compliance with the construction documents. | X |  | Table 1705.7 |  | |  |  |
| * 1. For load test requiring a load or reaction frame, inspect the construction of the load or reaction frame. Record the results of the inspection and note whether or not the frame complies with the construction documents prepared by the registered design professional. |  | X | Table 1705.7 |  | |  |  |
| * 1. Record the identifying designation for the element being tested, and the date of the testing, including the start and end time. | X |  | Table 1705.7 |  | |  |  |
| * 1. Record the method of performing the test, including the equipment being used, as well as the test results, noting whether or not the method of testing and the test results comply with the requirements of sections 1810, 1811, and 1812 and the construction documents. | X |  | Table 1705.7 |  | |  |  |
| 1. Required special inspections of driven and vibrated deep foundation elements |  |  | Table 1705.7.1 |  | |  |  |
| * 1. For driven deep foundation elements, record the type and size of hammer and record the number of blows per foot of penetration from the start of driving until the final blow count required by the construction documents is reached. | X |  | Table 1705.7.1 |  | |  |  |
| * 1. For vibrated deep foundation elements, record the equipment and method used for installation and record the time for each foot of penetration from the start of installation until complete. | X |  | Table 1705.7.1 |  | |  |  |
| 1. Required special inspections of drilled deep foundation elements |  |  | Table 1705.7.2 |  | |  |  |
| * 1. Record the equipment and method used for installation and record the time for each foot of penetration from the start of installation until completion. | X |  | Table 1705.7.2 |  | |  |  |
| * 1. For deep foundation elements requiring a rock socket; | X |  | Table 1705.7.2 |  | |  |  |
| * + 1. Record the equipment and method of drilling the rock socket. Record the top elevation and bottom elevation of rock socket, as well as the time for each foot of drilling | X |  | Table 1705.7.2 |  | |  |  |
| * + 1. Inspect the rock socket to verify rock quality as required by Section 1812 and the construction documents. Record the results of the inspection and note whether or not the rock socket complies with the requirements of Section 1812. | X |  | Table 1705.7.2 |  | |  |  |
| 1. Required special inspections of driven or drilled cast in place deep foundation elements |  |  | Table 1705.7.3 |  | |  |  |
| * 1. Prior to placing concrete, inspect the inside of the pile for alignment and damage. Record the results of the inspection, noting whether or not the pile is in compliance with Section 1812 and the construction documents. | X |  | Table 1705.7.3 |  | |  |  |
| * 1. Witness the placement of concrete or grout inside the deep foundation element, and record the volume placed. Note the date and time of placement, and whether or not the concrete or grout was placed in compliance with Section 1812 and the construction documents. | X |  | Table 1705.7.3 |  | |  |  |
| 1. Required special inspections of prestressed soil and rock anchors. |  |  | Table 1705.8.1 |  | |  |  |
| * 1. Special inspection of casing installation. | X |  | Table 1705.8.1 |  | |  |  |
| * 1. Special inspection of anchor materials. | X |  | Table 1705.8.1  1815.13 |  | |  | ASTM A722, ASTM A416, ASTM A882 |
| * 1. Special inspection of anchor installation. | X |  | Table 1705.8.1 |  | |  | PTI DC35.1-14 (Sections 8.1-8.9) |
| * 1. Special inspection of grout – preparation of 3” diameter grout cylinders. | X |  | Table 1705.8.1  1812.1.1.2.1 |  | |  | ASTM C31/C31M |
| * 1. Special inspection of grout – determination of specific gravity of grout. | X |  | Table 1705.8.1 |  | |  | American Petroleum Group (API) Recommended Practice 13B-1  ASTM C138 |
| * 1. Special inspection of grout – compressive strength verification. | X |  | Table 1705.8.1  1812.1.1.2.2 |  | |  | ASTM C39 |
| * 1. Special inspection of load test. | X |  | Table 1705.8.1  1815.5 |  | |  | PTI DC35.1-14 (Sections 8.1-8.9) |
| 1. **Helical Pile Foundations** | X |  | 1705.9  Section 28-113.2.2 of the Administrative Code |  | |  | Continuous installation during helical pile installation. |
| 1. **Special Inspections for seismic resistance** |  |  | 1705.12 |  | |  |  |
| * 1. Designated Seismic Systems |  | X | 1705.12.1  Section 13.2.2 of ASCE 7 |  | |  | SDC C or D |
| * 1. Access Floors |  | X | 1705.12.2 |  | |  | SDC D |
| * 1. Plumbing, mechanical, fuel gas, and electrical components |  | X | 1705.12.3 |  | |  | SDC C or D |
| * 1. Storage Racks |  | X | 1705.12.4 |  | |  | SDC C or D |
| * 1. Seismic Isolation Systems |  | X | 1705.12.5 |  | |  | SDC B, C, or D during the fabrication and installation of isolator units and energy dissipation devices. |
| 1. **Testing for seismic resistance** |  |  | 1705.13 |  | |  |  |
| * 1. Nonstructural components |  | X | 1705.13.1 |  | |  | SDC B, C, or D |
| * 1. Designated seismic systems |  | X | 1705.13.2 |  | |  | SDC B, C, or D |
| * 1. Seismic isolation systems |  | X | 1705.13.3 |  | |  | SDC B, C, or D |
| Sprayed Fire-Resistant Materials (SFRM) |  |  | 1705.14 |  | |  | Per AWCI 12-A |
| 1. Structural member surface conditions |  | X | 1705.14.2 |  | |  | The prepared surface of structural members to be sprayed shall be inspected before the application of the SFRM. |
| 1. Application |  | X | 1705.14.3 |  | |  | Verify ambient temperature and ventilation requirements before and after application. |
| 1. Thickness |  | X | 1705.14.4 |  | |  | Field test |
| 1. Density |  | X | 1705.14.5 |  | |  | Collect field sample, test in laboratory in accordance with ASTM E605. |
| 1. Bond strength |  | X | 1705.14.6 |  | |  | Field test in accordance with ASTM E736. |
| 1. Inspection of existing SFRM materials during alterations in office spaces and spaces classified in Occupancy Group B |  | X | 1705.14.7 |  | |  | Classified in Occupancy Group B. |
| 1. **Mastic and intumescent fire-resistant coatings** |  | X | 1705.15 |  | |  | Per AWCI 12-B |
| 1. **Combustible Exterior Wall Coverings** |  |  | 1705.16 |  | |  | Applications installed more than 15 feet above grade. |
| * 1. Inspection Program |  | X | 1705.16.1 |  | |  | Verification of compliance with approved construction documents. |
| * 1. Water-resistive Barrier Coating |  | X | 1705.16.2 |  | |  | ASTM E2570 |
| * 1. Thermal Barrier |  | X | 1705.16.3 |  | |  |  |
| * 1. Fireblocking |  | X | 1705.16.4 |  | |  |  |
| Fire-resistant penetrations and joints |  |  | 1705.17 |  | |  |  |
| Testing for Smoke Control |  | X | 1705.18,  909 |  | |  | Inspect during ductwork, erection and system testing. |
| Vertical Masonry Foundation Elements |  | X | 1705.19 |  | |  |  |
| Wall panels, curtain walls and veneers |  | X | 1705.20  1705.4  1705.16 |  | |  |  |
| Special Inspection for Mechanical Systems |  | X | 1705.21  Section 28-116.4.1 of the Administrative Code |  | |  | Includes interior and exterior mechanical systems and equipment. |
| Special Inspection for Fuel Storage and Fuel Piping Systems |  | X | 1705.22  NYCMC Section 1305 |  | |  | Inspection for conformance with the approved CD’s and manufacturers’ requirements. |
| High Pressure Steam piping and High Temperature Hot Water Piping |  | X | 1705.23  1705.12  NYCMC Section 1211 |  | |  | Welder qualifications, welding procedures and operations, hydrostatic testing |
| High-pressure-gas piping |  | X | 1705.24  NYCFGC |  | |  | Welder qualifications, welding procedures and operations, pressure testing |
| Structural Stability |  |  | 1705.25 |  | |  |  |
| Alterations to existing structures |  | X | 1705.25.1 |  | |  | Applicable to structural alterations. |
| Construction operations influencing adjacent structures |  | X | 1705.25.2 |  | |  |  |
| Excavations |  | X | 1705.25.3  3304.4.1 |  | |  | Methods employed to protect the sides of excavations. |
| Underpinning and alternate methods of support of buildings and adjacent property. |  | X | 1705.25.4 |  | |  |  |
| Demolition |  | X | 1705.25.5 |  | |  | For use of mechanical means and methods of demolition equipment other than handheld devices. |
| Raising and moving of a building |  | X | 1705.25.6 |  | |  |  |
| Inspection program |  | X | 1705.25.7 |  | |  | Prior to commencement special inspection agency shall review and confirm all approved documents detail areas requiring structural stability temporary protections and sequence. |
| Design documents |  | X | 1705.25.8 |  | |  | Documents detailing work associated with the structural stability protection methods have been filed with NYCDOB. |
| Inspection during construction operations |  | X | 1705.25.9 |  | |  |  |
| Records of special inspections |  | X | 1705.25.10 |  | |  | SIA to maintain a special inspection logbook. |
| Tenant Protection Plan Compliance |  | X | 1705.26 |  | |  | SIA to verify work complies with the approved Tenant Protection Plan. |
| Private on-site storm water disposal systems and detention facilities |  | X | 1705.27 |  | |  | Applies to storm water detention, roof retention and dry well systems. |
| Individual on-site private sewage disposal systems |  | X | 1705.28 |  | |  |  |
| Sprinkler System Special Inspection |  | X | 1705.29 |  | |  | Applies to new and altered systems. |
| Standpipe System Special Inspection |  | X | 1705.30 |  | |  |  |
| Heating Systems |  | X | 1705.31  1705.12  NYCMC Section 1011 |  | |  |  |
| Chimneys and Vents |  | X | 1705.32 |  | |  |  |
| Aluminum construction | X |  | 1705.33 |  | |  | Applies to structural aluminum elements and related welding operations in accordance with AWS D1.2. |
| Flood zone compliance |  | X | 1705.34  Appendix G  BC G107 |  | |  |  |
| Luminous exit path markings |  | X | 1705.35  1704  1025.8 |  | |  |  |
| Emergency and standby power systems (generators) |  | X | 1705.36 |  | |  | Generators |
| Post-installed anchors |  | X | 1705.37  Table 1705.37  Section 28-113.2.2 of the Administrative Code |  | |  | Mechanical, adhesive and screw anchors. |
| Preparation, placement, type, size and location of anchors, including other details of anchors, installed in hardened concrete and to another construction. |  |  | Table 1705.37  1901.1 |  | |  |  |
| Adhesive anchors installed horizontally or upwardly inclined orientations to resist sustained tension loads. | X |  | Table 1705.37  1901.1 |  | |  | ACI 318 17.8.2.4, ACI 318-11 D.9.2.4 |
| Mechanical anchors and adhesive anchors not defined in 1. a. |  | X | Table 1705.37  1901.1 |  | |  | ACI 318 17.9.2 |
| Preparation, placement, type, size and location of anchors, including details of anchors, installed in masonry, and installed to masonry and to another construction. |  | X | Table 1705.37  Applicable NYCDOB Procedures |  | |  | Manufacturer’s specifications and installation instructions. |
| Preparation, placement, type, size and location of anchors, including other details of anchors, installed in stone, and installed to stone and to another construction. |  | X | Table 1705.37 |  | |  | Manufacturer’s specifications and installation instructions. |
| Special Inspection for nonpotable water systems |  | X | 1705.38  NYCPC Chapter 13 |  | |  |  |
| Special inspection for exhaust and vent systems in plenums and ducts |  | X | 1705.39  NYCMC Section 601.4 |  | |  |  |
| Progress Inspections | - | - |  |  | |  |  |
| Preliminary | - | - | 110.2 |  | |  |  |
| Footing & Foundation | - | - | 110.3.1 |  | |  |  |
| Lowest Floor Elevation | - | - | 110.3.2 |  | |  |  |
| Structural Wood Frame | - | - | 110.3.3 |  | |  |  |
| Fire-Resistance Rated Construction | - | - | 110.3.4 |  | |  |  |
| Energy Code Compliance | - | - | 110.3.5 |  | |  |  |
| Tenant Protection Plan Compliance Inspections | - | - | 110.3.7  Article 120 of Title 28 of the Administrative Code |  | |  |  |
| Final | - | - | 110.5 |  | |  |  |
| GG. Other Chapter 17 Requirements |  |  |  |  | |  | Indicate if requirements of BC 1711 are applicable. |
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TABLE LEGEND:

NYCDOB - New York City Department of Buildings

RDP – Registered Design Professional (A/E – Architect/Engineer)

SDC – Seismic Design Category

SIA – Special Inspection Agency

NYCBC – 2022 New York City Building Code

NYCMC – 2022 New York City Mechanical Code

NYCFGC – 2022 New York City Fuel Gas Code

NYCPC – 2022 New York City Plumbing Code

AISC – American Institute of Steel Construction

RCSC – Research Council for Structural Connections

AWS – American Welding Society

ACI – American Concrete Institute

NOTES:

1. Completion of this form by the Registered Design Professional (RDP) is a DASNY 60% design review submission requirement and is considered separate from the TR1: Technical Report Statement of Responsibility form required to be filed with the New York City Department of Buildings.
2. RDP to provide reference specification section detailing the requirements for inspections and/or tests and other clarifying notes, as necessary.
3. Commentary/Notes by DASNY are provided for information and are not intended to provide complete details of the required tests and inspections. Refer to the 2014 NYCBC for complete and detailed requirements.