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This MANU-SPEC<sup>7</sup> utilizes the Construction Specifications Institute (CSI) *Project Resource Manual* (PRM), including *MasterFormat*<sup>1</sup>, *SectionFormat*<sup>2</sup> and *PageFormat*<sup>3</sup>. A MANU-SPEC is a manufacturer-specific proprietary product specification using the proprietary method of specifying applicable to project specifications and master guide specifications. Optional text is indicated by brackets [ ] and/or Specifier Notes; delete optional text in final copy of specification. Specifier Notes precede specification text; delete notes in final copy of specification. Trade/brand names with appropriate product model numbers, styles and types are used in Specifier Notes and in the specification text Article titled <sup>4</sup>Acceptable Material.<sup>5</sup> Metric conversion, where used, is soft metric conversion.

This MANU-SPEC specifies masonry veneer anchors and ties, as manufactured by Hohmann & Barnard, Inc., for application to masonry units. Revise MANU-SPEC section number and title below to suit project requirements, specification practices and section content. Refer to CSI *MasterFormat* for other section numbers and titles.

## SECTION 04 05 19 MASONRY ANCHORAGE AND REINFORCING

### PART 1 GENERAL

#### 1.01 SUMMARY

- A. Section Includes: Seismic and non-seismic masonry veneer tie and anchor assemblies.

Specifier Note: Revise Paragraph below to suit project requirements. Add section numbers and titles per CSI *MasterFormat* and specifier=s practice.

- B. Related Requirements:

Specifier Note: Include in this Paragraph only those sections and documents that directly affect the work of this section. If a reader of this section could reasonably expect to find a product or component specified in this section, but it is actually specified elsewhere, then the related section number(s) should be listed in the Subparagraph below. Do not include Division 00 documents or Division 01 sections since it is assumed that all technical sections are related to all project Division 00 documents and Division 01 sections to some degree. Refer to other documents with caution since referencing them may cause them to be considered part of the Contract.

1. Section 04 20 00 - Unit Masonry.
2. Section [\_\_\_\_\_].

#### 1.02 REFERENCES

Specifier Note: Paragraph below may be omitted when specifying manufacturer's proprietary products and recommended installation. Retain References Paragraph when specifying products and installation by an industry reference standard. List retained standard(s) in this section alphabetically. Indicate issuing authority name, acronym, standard designation and title. Establish policy for indicating edition date of standard referenced. Contract Conditions Section 01 42 00 - References may establish the edition date. This Paragraph does not require compliance with standard(s). It is a listing of all references used in this section. Only include standards referenced in the body of the specification in PARTS 1, 2 and/or 3. Do not include references to building codes at any level.

- A. Reference Standards:

1. ASTM International (ASTM):
  - a. ASTM A82/A82M Standard Specification for Steel Wire, Plain, for Concrete Reinforcement.
  - b. ASTM A153/A153M Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware.

- c. ASTM A167 Standard Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
- d. ASTM A366 Standard Specification for Commercial Steel (CS) Sheet, Carbon (0.15 Maximum Percent) Cold-Rolled.
- e. ASTM A510 Standard Specification for General Requirements for Wire Rods and Coarse Round Wire, Carbon Steel.
- f. ASTM A580 Standard Specification for Stainless Steel Wire.
- g. ASTM C954 Standard Specification for Steel Drill Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Steel Studs from 0.033 in. (0.84 mm) to 0.112 in. (2.84 mm) in Thickness.
- h. ASTM D412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers–Tension.
- i. ASTM D638 Standard Test Method for Tensile Properties of Plastics.
- j. ASTM D790 Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
- k. ASTM D1781 Standard Test Method for Climbing Drum Peel for Adhesives.
- l. ASTM D2240 Standard Test Method for Rubber Property - Durometer Hardness.
- m. ASTM D3575 Standard Test Methods for Flexible Cellular Materials Made From Olefin Polymers.
- n. ASTM D4819 - Standard Specification for Flexible Cellular Materials Made From Polyolefin Plastics.

1.03 ADMINISTRATIVE REQUIREMENTS

- A. Coordination: Coordinate work of this Section with work of other trades for proper time and sequence to avoid construction delays. Comply with Section [01 31 00 - Project Management and Coordination].
- B. Sequencing: Sequence work of this section in accordance with Section [01 12 16 - Work Sequence] [and manufacturer=s written recommendations for sequencing construction operations].

Specifier Note: Specify additional text as required to describe the particular sequence of events required to coordinate work that must be done in sequence with, or at the same time as, work in another section.

1. [\_\_\_\_\_].

- C. Scheduling: Schedule work of this Section in accordance with Section [01 32 13 - Scheduling of Work].

Specifier Note: Specify additional text to include requirements for coordinating work that requires unusual scheduling with work of other sections.

1. [\_\_\_\_\_].

Specifier Note: Article below includes submittal of relevant data to be furnished by Contractor before, during or after construction. Coordinate this article with Architect=s and Contractor=s duties and responsibilities in Contract Conditions and Section 01 33 00 - Submittal Procedures.

1.04 ACTION SUBMITTALS

- A. General: Submit listed submittals in accordance with Contract Conditions and Section [01 33 00 - Submittal Procedures].
- B. Product Data: Submit specified products as follows:
  - 1. Manufacturer’s product data, including manufacturer=s SPEC-DATA product sheet.
  - 2. Manufacturer’s installation instructions.
  - 3. Catalog pages illustrating products to be included in project.
  - 4. Material Safety Data Sheets (MSDS).
- C. Shop Drawings: Indicate information on shop drawings as follows:
  - 1. [\_\_\_\_\_].

Specifier Note: Samples are full-size actual products intended to illustrate the products to be included in the project.

- D. Samples: Submit [2] selection and verification samples of [\_\_\_\_\_] having dimensions of [\_\_\_\_\_] inches (mm).

1.05 INFORMATION SUBMITTALS

Specifier Note: Specify submittal of test reports or evaluation service reports intended to document required tests without repeating test requirements specified in Division 01.

- A. General: Submit listed submittals in accordance with Contract Conditions and Section [01 33 00 - Submittal Procedures].
- B. Test and Evaluation Reports: Provide certified test reports showing compliance with specified performance characteristics and physical properties.
- C. Source Quality Control: Submit documentation verifying that components and materials specified in this Section are from single manufacturer.

Specifier Note: Coordinate with Field Quality Control in PART 3. If manufacturer=s services are specified during construction operations to verify installation, include the following Paragraph for submittal of instructions and reports. If no field inspections are required, delete the following Paragraph.

- D. Manufacturer's Reports: Manufacturer=s field reports specified.
- E. Qualification Statements:
  - 1. Submit letter of verification for Manufacturer=s Qualifications.
  - 2. Submit letter of verification for Installer=s Qualifications.

1.06 CLOSEOUT SUBMITTALS

- A. General: Submit listed submittals in accordance with Contract Conditions and Section [01 33 00 - Submittal Procedures].
- B. Warranty Documentation: Submit warranty documents specified.

1.07 QUALITY ASSURANCE

- A. Qualifications:
  - 1. Manufacturer:
    - a. Having [5] years experience manufacturing components similar to or exceeding requirements of project.
    - b. Having sufficient capacity to produce and deliver required materials without causing delay in work.
    - c. Capable of providing field service representation during construction.
  - 2. Installer: Acceptable to manufacturer, experienced in performing work of this section and has specialized in installation of work similar to that required for this project.

Specifier Note: Retain the following Paragraph when certification related to sustainability submittals is a project requirement.

- B. Sustainability Standards Certification: Provide certification for masonry veneer anchors and tie materials certified by [certifying organization's name] in accordance with [certifying organization's standard].

Specifier Note: If a mock-up is required, retain Paragraph below and edit to suit project requirements.

- C. Mock-Up:
  - 1. Purpose will be to judge quality of work, substrate preparation and material application.
  - 2. Construct where [indicated] [directed] by [Owner] [Architect] [Consultant] in accordance with Section [01 43 00 - Quality Assurance].
  - 3. Construct to [\_\_] feet x [\_\_] feet ([\_\_] x [\_\_] m)] using proposed procedures and quality of work.
  - 4. Locate where [directed] [indicated on drawing].
  - 5. Do not proceed with work prior to receipt of written acceptance of mock-up. When accepted, mock-up will demonstrate minimum standard of quality required for this work.
  - 6. Approved mock-up may [not] remain part of finished work. [Remove mock-up and dispose of materials when no longer required and when directed by [Owner] [Architect] [Consultant].]

**1.08 DELIVERY, STORAGE & HANDLING**

- A. Delivery and Acceptance Requirements:
  - 1. Deliver material in accordance with Section [01 61 00 - Common Product Requirements] and in accordance with manufacturer=s written instructions.
  - 2. Deliver materials in manufacturer=s original packaging with identification labels intact and in sizes to suit project.
- B. Storage and Handling Requirements:
  - 1. Store materials protected from exposure to harmful weather conditions and as directed by manufacturer.
- C. Packaging Waste Management:

Specifier Note: The disposal of packaging waste into landfill sites demonstrates an inefficient use of natural resources and consumes valuable landfill space. Specifying appropriate packaging and construction waste management and disposal procedures may contribute to points required for USGBC=s LEED® construction project certification.

Specifier Note: Include the following Subparagraphs to specify information that will provide direction to the Contractor for the disposal of construction waste materials using environmentally responsible methodology other than landfill resources.

- 1. Separate waste materials for [reuse] [and] [recycling] in accordance with [Section 01 74 19 - Construction Waste Management and Disposal].

Specifier Note: USGBC's LEED® certification includes credits for the diversion of construction waste from landfill. Diversion can be tracked by either weight or volume, but must be consistent for all materials.

- 2. Remove packaging materials from site and dispose of at appropriate recycling facilities.
- 3. Collect and separate for disposal [paper] [plastic] [polystyrene] [corrugated cardboard] packaging material [in appropriate onsite bins] for recycling.
- 4. Fold metal and plastic banding, flatten and place in designated area for recycling.

Specifier Note: Add additional Subparagraphs to include crates, padding and other packing materials that are typically associated with the specified products.

- 5. Remove:
  - a. Pallets from site [and return to supplier or manufacturer].
  - b. [\_\_\_\_\_].

**1.09 WARRANTY**

- A. Warranty: Refer to Contract Conditions and Section [01 78 36 - Warranties] [\_\_\_\_\_] for project warranty provisions.
- B. Manufacturer=s Warranty: Submit, for Owner=s acceptance, manufacturer=s standard warranty document executed by authorized company official. Manufacturer=s warranty is in addition to, and does not limit, other rights Owner may have under other Contract Documents.
  - 1. Warranty Term: [\_\_\_\_\_] commencing on date of substantial completion.

Specifier Note: Include statements specific to this Section that supplement or extend warranties contained in Contract Conditions.

- C. Special Warranty:
  - 1. Warranty Term: [\_\_\_\_\_], commencing on the date of substantial completion.

**PART 2 PRODUCTS**

Specifier Note: Retain Article below for proprietary method specification. Add product attributes, performance characteristics, material standards and descriptions, as applicable. Use of such phrases as "or equal," "or approved equal" or similar phrases may cause ambiguity in specifications, as such phrases require verification (procedural, legal and regulatory) and assignment of responsibility for determining "or equal" products.

**2.01 MASONRY TIES AND ANCHORS**

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**A. Manufacturer: Hohmann & Barnard, Inc.**

1. Contact: 30 Rasons Court, Hauppauge, NY, 11788-4206; Telephone: 800-645-0616, 631-234-0600; Fax: 631-234-0683; E-mail: [weanchor@h-b.com](mailto:weanchor@h-b.com); website: [www.h-b.com](http://www.h-b.com).

Specifier Note: Substitution procedures must appear in the Contract Conditions or in Section 01 25 00 - Substitution Procedures. Do not include substitution procedures here.

2. Single Source Responsibility: Provide components and materials specified in this section from a single manufacturer.
3. Substitution Limitations:
  - a. Substitutions: In accordance with [Contract Conditions] [Section 01 25 00 - Substitution Procedures] [No substitutions permitted].

Specifier Note: Include overall description of product. Include required properties or characteristics that do not obviously belong under other titles. Examples: Configuration, size and color.

**B. Description:**

Specifier Note: Paragraph below should list obligations for compliance with specific code requirements particular to this section. General statements to comply with a particular code are typically addressed in Contract Conditions and Section 01 41 00 - Regulatory Requirements. Avoid repetitive statements.

1. Regulatory Requirements: In accordance with Section [01 41 00 - Regulatory Requirements] [\_\_\_\_\_].
2. Sustainability Characteristics: [\_\_\_\_\_].
3. Compatibility: Ensure components and materials are compatible with specified accessories and adjacent materials.

**C. Materials:**

1. Anchors and Ties:

Specifier Note: Anchors, ties and wire can be specified in either carbon steel or in stainless steel. Refer to manufacturer's product data sheets, product catalogs and SPEC-DATA® sheets and retain or delete Subparagraphs below to meet project requirements.

- a. Carbon Steel: To ASTM A366, hot-dip galvanized after fabrication to ASTM A153, Class B.
- b. Stainless Steel: Type [304] [316] to ASTM A167.
2. Wire:
  - a. Carbon Steel: To ASTM A82, with zinc coating hot-dip galvanized after fabrication to ASTM A153.
    - 1) Tensile Strength: Not less than 80,000 psi (552 MPa).
    - 2) Yield Point: Not less than 70,000 psi (483 MPa).
  - b. Stainless Steel: Type [304] [316] to ASTM A580.
3. Seismic Reinforcement Retaining Clip:
  - a. Rigid polyvinyl chloride clip to ASTM D1781, ASTM D2240, ASTM D638, ASTM D790, with ridge to secure continuous wire in mortar and 3 additional ridges to secure masonry wire tie.
4. Screw-Type Tie Barrel:

Specifier Note: Specify only for use with 2-Seal Ties and 2-Seal Concrete Ties. Refer to manufacturer's product data sheets, product catalogs and SPEC-DATA® sheets and retain or delete Subparagraphs below as needed to meet project requirements.

- a. 1000-hour polymer coated steel to ASTM C954, ASTM A510.
- b. Stainless steel to ASTM 580.

**D. Seismic Tie Assemblies:**

Specifier Note: Hohmann & Barnard, Inc., offers masonry veneer tie assemblies that meet requirements for seismic applications. Refer to manufacturer's product data sheets, product catalogs and SPEC-DATA® sheets and specify tie assembly and components to suit project requirements.

1. Tie Assemblies:

Specifier Note: Hohmann & Barnard, Inc., offers 6 tie assemblies that meet requirements for seismic applications. Choose from No. 315-BL Byna-Lok™ Flexible Dovetail Tie, No. 315 Flexible Dovetail™ Tie, No. 345-BL Byna-Lok™ Flexible Tie, No. 345-BT Flexible Tie, No. 363-BL Byna-Lok™ Flexible Gripstay Tie and No. 363 Flexible Gripstay Tie. Refer to manufacturer’s product data sheets, product catalogs and SPEC-DATA® sheets and insert name of appropriate seismic tie assembly to suit project requirements.

- a. Acceptable Materials: Hohmann & Barnard, Inc.: [\_\_\_\_\_] assembly for seismic applications.
- 2. Continuous Wire: [9 gauge] [3/16 inch (4.8 mm) diameter].
- 3. Anchor Head:
  - a. Type: [Flexible dovetail] [Flexible rectangular] [Flexible channel].
  - b. Thickness: [14] [12] gauge.
- 4. Wire Tie: Swaged or notched to accept continuous wire and having upward pitch on front and rear leg:
  - a. Shape: [Rectangular] [Triangular].
  - b. Diameter: [3/16 inch (4.8 mm)] [1/4 inch (6.4 mm)].
  - c. Length: [3 inches (76 mm)] [3.5 inches (89 mm)] [4 inches (102 mm)] [4.5 inches (114 mm)] [5 inches (127 mm)].
  - d. Finish: [Hot dipped galvanized] [Stainless steel].

Specifier Note: Rectangular shaped wire corresponds to Hohmann & Barnard Byna-Lok™ tie; triangular shaped wire corresponds to Hohmann & Barnard Byna-Tie®. Refer to manufacturers’ technical data sheets, product catalogs and SPEC-DATA® sheets to determine the most appropriate wire tie to meet project requirements and retain the tie wire name below.

- e. Acceptable Materials: Hohmann & Barnard, Inc., [\_\_\_\_\_] wire tie:
- 5. Interlock System: [Seismic reinforcement retaining clip].
  - a. Acceptable Material: Hohmann & Barnard [Seismicclip] [\_\_\_\_\_] interlock system.

Specifier Note: If specifying flexible channel type anchor head, retain Subparagraph below as needed to meet project requirements.

- 6. Channel System: Hohmann & Barnard [Gripstay Channel] [\_\_\_\_\_].

E. Seismic and Non-Seismic Anchor Assemblies:

Specifier Note: Hohmann & Barnard, Inc., offers masonry veneer anchor assemblies that meet requirements for both seismic and non-seismic applications. Seismic applications require a continuous wire. Some seismic anchor models may also require an optional seismic reinforcement retaining clip. Refer to manufacturer’s product data sheets, product catalogs and SPEC-DATA® sheets and specify anchor assembly and components to suit project requirements.

1. Anchor Assemblies:

Specifier Note: Hohmann & Barnard, Inc., manufactures the following masonry veneer anchor assemblies for seismic applications: No. 303-SV Seismic-Notch Dovetail Anchor, No. 345-SV Seismic Veneer Anchor, No. 364-SV Seismic-Notch Gripstay Anchor, HB-200 S.I.S., T-LOK Tie™, SBRA Seismic Veneer Anchor, DW-10HS Anchor System With Seismicclip Interlock System, DW-10HS Anchor System With Byna-Lok Wire Ties, X-SEAL Anchor System With Byna-Lok Wire Ties, X-SEAL With Seismicclip Interlock System, 2-Seal Tie, and 2-Seal Concrete Tie.

Specifier Note: Hohmann & Barnard, Inc., manufactures the following masonry veneer anchor assemblies for non-seismic applications: No. HB 200, DW-10HS, DW-10, SBRA Anchor, X-Seal Anchor, 2-Seal Tie, and 2-Seal Concrete Tie.

Specifier Note: Insert the name of the appropriate seismic or non-seismic anchor assembly below and edit Subparagraph to meet project requirements.

- a. Acceptable Material: Hohmann & Barnard, Inc.: [\_\_\_\_\_] for [seismic] [non-seismic] applications.

Specifier Note: Anchor assembly components vary by product. Refer to manufacturer’s product data sheets, product catalogs and

SPEC-DATA® sheets and retain or delete Paragraphs below as needed to meet project requirements.

2. Anchor:

- a. Type: [Dovetail with seismic notch] [L-shape with seismic notch] [Channel type with seismic notch] [Backplate] [Right angle backplate with dual slots] [L-shape with tie] [Rectangular with track] [Drill screw type].
- b. Thickness: [N/A] [14 gauge].
- c. Length: [N/A] [0.625 inch (15.9 mm)] [1 inch (25.4 mm)] [1.5 inches (38 mm)] [2 inches (51 mm)] [2.5 inches (64 mm)] [3 inches (76 mm)] [3.5 inches (89 mm)] [4 inches (102 mm)] [4.75 inches (121 mm)] [5.25 inches (133 mm)] [6 inches (152 mm)] [9 inches (229 mm)].
- d. Width: [N/A] [1 inch (25.4 mm)] [1.25 inch (32 mm)].

Specifier Note: 1000 hour polymer coating is available with drill screw type anchor only. 2-Seal Tie and 2-Seal Concrete Tie are not available hot dipped galvanized.

- e. Finish: [Hot dipped galvanized] [Stainless steel] [1000 hour polymer coating to ASTM C954].

Specifier Note: Retain Subparagraph below to meet project requirements except when specifying No. 303-SV, No. 364-SV or 2-Seal Concrete Tie anchors.

- f. Connecting Screw Hole Diameter: 9/32 inch (7 mm).

Specifier Note: Retain Subparagraph below if specifying 364-SV Seismic-Notch Gripstay Anchor.

3. Channel Attachment:

- a. Acceptable Material: Hohmann & Barnard [Gripstay Channel] [\_\_\_\_\_].

Specifier Note: Retain Subparagraphs below if specifying HB-200 or HB-200 S.I.S Seismic Veneer Anchor.

4. Pintle:

- a. Diameter: 3/16 inch (4.8 mm).
- b. Length: [3 inch (76 mm)] [4 inch (102 mm)] [4.75 inch (121 mm)] [5.25 inch (133 mm)].

Specifier Note: Retain Subparagraph below if specifying T-LOK Tie, HB-200, HB-200 S.I.S or SBRA seismic or non-seismic anchors and edit to suit project requirements.

- 5. Backplate Insulation Thickness: [N/A] [1 inch (25.4 mm)] [1.5 inches (38 mm)] [2 inches (51 mm)] [2.5 inches (64 mm)] [3 inches (76 mm)] [3.5 inches (89 mm)].

Specifier Note: Retain or delete Subparagraph below to suit project requirements when specifying SBRA seismic or non-seismic anchors.

- 6. Washer: Optional insulation washer.

Specifier Note: Retain Subparagraphs below if specifying SBRA Seismic Veneer Anchor, DW-10HS® Anchor System With Seismiclip® Interlock System, DW-10HS® Anchor System With Byna-Lok™ Wire Ties, X-SEAL™ Anchor System With Byna-Lok™ Wire Ties, X-SEAL™ With Seismiclip® Interlock System or 2-Seal Concrete Tie™.

7. Wire Tie: Swaged to accept continuous wire.

- a. Type: [Rectangular] [Triangular].
- b. Diameter: [3/16 inch (4.8 mm)] [1/4 inch (6.4 mm)].
- c. Length: [3 inch (76 mm)] [3.5 inch (89 mm)] [4 inch (102 mm)] [4.5 inch (114 mm)] [5 inch (127 mm)].
- d. Acceptable Material: Hohmann & Barnard, Inc., [\_\_\_\_\_] wire tie.

Specifier Note: Retain Subparagraph(s) below if specifying X-SEAL™ Anchor System With Byna-Lok Wire Ties or X-SEAL™ With Seismiclip® Interlock System.

8. Pronged Leg Depth: [5/8 inch (16 mm)] [3/4 inch (19 mm)] [1 inch (25.4 mm)] [1.5 inches (38 mm)] [2 inches (51 mm)] [2.5 inches (51 mm)] [3 inches (76 mm)] [3.5 inches (89 mm)] [4 inches (102 mm)].
9. Foam Seal: Polyethylene foam seal reinforcing tape to ASTM D4819, ASTM D3575, ASTM D412.

Specifier Note: Rectangular shaped wire tie corresponds to Hohmann & Barnard Byna-Lok™ tie and triangular shaped wire tie corresponds to Hohmann & Barnard Byna-Tie®. Refer to manufacturer's product data sheets, product catalogs and SPEC-DATA® sheets and retain data as needed to suit project requirements.

- a. Acceptable Material: Hohmann & Barnard, Inc., [X-SEAL Tape] [\_\_\_\_\_] foam seal.

Specifier Note: Seismic applications require specification of continuous wire. Retain Subparagraph below if specifying a seismic anchor assembly. Delete for non-seismic applications.

10. Continuous Wire: [9 gauge] [3/16" (4.8 mm) diameter].

Specifier Note: Retain Subparagraph below if specifying HB-200 S.I.S Seismic Veneer Anchor, DW-10HS® With Seismicclip® Interlock System or X-Seal™ Anchor System With Seismicclip® Interlock System. Delete for non-seismic applications.

11. Interlock System: [Seismic reinforcement retaining clip] [\_\_\_\_\_].
  - a. Acceptable Material: Hohmann & Barnard [Seismicclip] [\_\_\_\_\_] interlock system.

## 2.02 SOURCE QUALITY CONTROL

Specifier Note: Describe each test to be conducted. Include test method, sampling requirements, observation by independent authorities (if any) and reporting requirements. Describe each inspection to be conducted, including method, personnel and reporting requirements.

### A. Tests and Inspections:

Specifier Note: Describe specific requirements for coordinating special inspections, such as providing access to authorities having jurisdiction or other third parties.

1. Manufacturer Services.
2. [\_\_\_\_\_].

## PART 3 EXECUTION

### 3.01 EXAMINATION

- A. Verification of Conditions: Verify that conditions of substrates previously installed under other sections or contracts are acceptable for product installation in accordance with manufacturer=s instructions prior to masonry anchor and tie assembly installation.
- B. Verify that site conditions installed under other sections are in accordance with manufacturer=s instructions prior to masonry anchor and tie assembly installation.
  1. Inform [Owner] [Architect] [Consultant] of unacceptable conditions immediately upon discovery.
  2. Proceed with installation only after unacceptable conditions have been remedied [and after receipt of written approval from [Owner] [Architect] [Consultant]].
  3. [\_\_\_\_\_].

### 3.02 PREPARATION

Specifier Note: Specify preparatory work required prior to installation/application/erection of masonry anchor and tie assemblies.

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surface in accordance with manufacturer=s written recommendations and coordinate with Section [01 71 00 - Examination and Preparation].
  1. [\_\_\_\_\_].

### 3.03 INSTALLATION



- A. Coordinate installation of masonry anchor and tie assemblies in accordance with [01 73 19 - Installation].
- B. Accurately fit, align, securely fasten and install free from distortion or defects.
- C. [\_\_\_\_\_].

**3.04 APPLICATION**

- A. Coordinate application of veneer masonry anchor and tie assemblies in accordance with Section [01 73 13 - Application].
  - 1. [\_\_\_\_\_].

**3.05 FIELD QUALITY CONTROL**

Specifier Note: Specify requirements for quality control and related quality assurance for onsite activities and installed materials, manufactured units, equipment, components and accessories.

- A. Tests, Inspection: Coordinate [field] [site] test with Section [01 45 00 - Quality Control].
  - 1. [\_\_\_\_\_].

**3.06 CLEANING**

- A. Perform cleanup in accordance with Section [01 74 00 - Cleaning and Waste Management] and Section [01 74 13 - Progress Cleaning].
- B. Upon completion, remove surplus materials, rubbish, tools and equipment in accordance with Section [01 74 23 - Final Cleaning].

Specifier Note: Specify special measures needed to minimize waste, collect recyclable waste and dispose of or recycle field-generated construction waste created during demolition, construction or final cleaning.

- C. Waste Management:
  - 1. Coordinate recycling of waste materials with [01 74 19 - Construction Waste Management and Disposal].
  - 2. Collect recyclable waste and dispose of or recycle field generated construction waste created during demolition, construction or final cleaning.
  - 3. Remove recycling containers and bins from site.
  - 4. [\_\_\_\_\_].

**3.07 PROTECTION**

- A. Protect installed product from damage during construction in accordance with Section [01 76 00 - Protecting Installed Construction].
- B. Repair damage to adjacent materials caused by masonry veneer anchor and tie assembly installation.
- C. [\_\_\_\_\_].

**3.08 ATTACHMENTS**

Specifier Note: Schedules are sometimes included in the specifications rather than on the drawings. Include schedules that indicate item/element/product/equipment, location and other coordinating data.

- A. Schedules:
  - 1. [\_\_\_\_\_].

**END OF SECTION**