PART 1 - GENERAL

1.1 DESCRIPTION
A. Scope of Work
   All interior and exterior load bearing and non load-bearing light gage steel and
   wood stud deflection assemblies and connections.

1.2 SUMMARY
A. This Section includes the following:
   1. Exterior and Interior non load-bearing wall deflection connections and assemblies.
   2. Exterior and Interior load-bearing wall deflection connections and assemblies.

1.3 PERFORMANCE REQUIREMENTS
A. Engineering Responsibility: Engage a fabricator who assumes undivided
   responsibility for engineering deflection connections and assemblies by employing
   a qualified professional engineer to prepare design calculations, shop drawings,
   and other structural data.

B. All Exterior and Interior load-bearing deflection post applications are to be
   engineered by a qualified professional Engineer.

1.4 QUALITY ASSURANCE
A. Installer Qualifications: Engage an experienced Installer who has completed cold-
   formed metal framing similar in material, design, and extent to that indicated for
   this project and with a record of successful in-service performance.

B. Standard
   1. Work shall meet the requirements of the following standards:
         Steel Structural Members,” 1986 with 1989 amendments.
         Code – Sheet Steel.”
      c. American Society for Testing Materials (A.S.T.M.)
      d. American Institute of Steel Construction (A.I.S.C.) “Manuel of Steel
      e. All pertinent Federal, State, and Local codes.
   2. The most stringent requirements shall govern in conflicts between specified
      codes and standards.
   3. Certify that each welder has satisfactorily passed AWS qualification tests for
      welding processes involved and, if pertinent, has undergone recertification
      within the past twelve months

C. Inspection
   1. As directed by Architect, Owner’s testing agency may inspect the maintenance
      of a quality control program including spot checking weldments and welding
      procedures in accordance with A.W.S. standards.
   2. Full responsibility for quality control shall remain with the Contractor.

1.5 DELIVERY, STORAGE, AND HANDLING
A. Protect D-FLEXION POST from corrosion, deformation, and other damage during
   delivery, storage, and handling.
B. Store D-FLEXION POST, protect with waterproof covering, and ventilate
   to avoid condensation.

1.6 SUBMITTALS
A. Structural Calculations
   1. Submit structural calculations prepared by the Professional Engineer of record.
      Calculations shall include, but are not limited to:
      a. Description of design criteria.
      b. Engineering analysis depicting stress and deflection (stiffness) requirements
         for each framing application.
      c. Selection of deflection connection components and accessories.
      d. Verification of attachments to structure and/or adjacent framing components.

B. Drawings
   1. Submit drawings prepared by the manufacturer for approval by the Project
      Architect and Engineer. These drawings should include:
      a. Cross-sections, plans and/or elevations depicting component locations.
      b. Connection details showing screw types and locations weld lengths and
         locations or other related fastener requirements.

2.0 AVAILABLE MANUFACTURERS:
A. Manufacturers offering D-FLEXION POST that may be incorporated in the work
   include, and are limited to, the following:

   1. FLEX-ABILITY CONCEPTS
      P.O. Box 7145 Edmond, OK 73083
      (405) 715-1999
      Fax (405) 399-8942
      www.flexcc.com

2.1 MATERIALS
A. Galvanized – Steel bracket base:
   1. Coating Designation: Equal or superior to ASTM A663 G-40 or A-40
   2. Thickness: .060 inches

B. ST19 dia. 5” long bolt (post) : ASTM A307, and as follows:
   1. Grade: A
   2. Coating: zinc plated

2.2 D-FLEXION POST
A. D-FLEXION POST: Manufacturer’s standard steel deflection post with punched
   fastener holes in depths indicated.

2.3 D-FLEXION POST ACCESSORIES
A. Fabricate D-FLEXION POST accessories of the same material and finish used for
   D-FLEXION POST with minimum yield strength of 33,000 psi.
B. Provide accessories of manufacturer’s standard thickness and configuration,
   unless otherwise indicated.