

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 studs, track, joists, trusses, bridging and related accessories are as indicated on the Contract Drawings and specified herein.
- B. Related work elsewhere.

1.2 SUMMARY

- A. Section Includes the following:
 - 1. Custom curved steel framing for curved walls, domes, vaults, arches and curved soffits, etc.
 - 2. Exterior and Interior non load-bearing walls.
 - 3. Exterior and Interior load-bearing walls.

1.3 REFERENCES

- A. ASTM International (ASTM):
 - 1. A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
 - 2. C645 - Standard Specification for Non-Load (Axial) Bearing Steel Studs, Runners (Track), and Rigid Furring Channels for Screw Application of Gypsum Board.
 - 3. C955 – Standard Specification for Load-Bearing (Transverse and Axial) Steel Studs, Runners (Tracks), and Bracing or Bridging for Screw Application of Gypsum Panel Products and Metal Plaster Bases.
 - 4. C754 - Standard Practice for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Wall board, Backing Board, or Water-Resistant Backing Board.

1.4 SUBMITTALS

- A. Submittals for Review:
 - 1. Description of design criteria
 - 2. Shop Drawings: Include framing layout, components, anchorage, and accessories.
 - 3. Product Data: Describe materials, finishes, and system components.
- B. Quality Control Submittals:
 - 1. Certificate of Compliance: Manufacturer's certification that products furnished meets specified performance characteristics and physical requirements.
 - 2. Test Reports: Certified test reports issued by a nationally recognized testing laboratory showing material compliance with specified performance characteristics and physical requirements.
- C. Sustainable Design Submittals:
 - 1. Recycled Content.
 - 2. Regionally Manufactured Materials.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: 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 success in service and performance.

PART 2 - PRODUCTS

2.1 AVAILABLE MANUFACTURERS

- A. Manufacturer's offering Priceless Curved metal framing that may be incorporated in the work include, and are limited to the following:
 - 1. Priceless Steel Products – (888) 318-6851 – www.PricelessSteel.com

2.2 MATERIALS

- A. Galvanized – Steel Sheet ASTM A653/A653M as follows:
 - 1. Non Structural Quality, (18 mil – 30 mil) Class G40; Grade 33
 - 2. Structural Quality (33 mil – 54 mil) Class G60, (68 mil – 118 mil) Class G90 hot dip galvanized; Grade 50.

2.3 CURVED AND ARCH PRODUCTS

- A. Priceless Curved Products: manufacturer's standard U-shape and L-shape assembly with screw attachments at 16" centers securing product.

2.4 FRAMING FASTENERS

- A. Anchors and Fasteners: Type recommended by framing manufacturer to suit project conditions; galvanized or corrosion-resistant coated steel.
 - 1. Head Type: Low-profile head beneath sheathing, manufacturer's standard elsewhere.
- B. Welded Electrodes: Comply with AWS standards.

2.5 FABRICATION

- A. Provide components in accordance with ASTM C645.
- B. Custom form components with multiple tabs attached with structural rivets at regular intervals to permit curving to arcs and radii indicated on Drawings.
- C. Studs:
 - 1. Rolled steel, channel shaped, punched for utility access.
 - 2. Core material thickness: Gauge as indicated on Contract Drawings.
 - 3. Depth: As indicated on Contract Drawings.
- D. Runners: Same depth, gauge, material and finish as studs, channel shaped, unpunched; or as indicated on drawings
- E. Fabrication Tolerances: Plus or minus 1/8 inch of required arcs.

PART 3 - EXECUTION

3.1 INSTALLATION - GENERAL

- A. Install in accordance with ASTM C754, manufacturer's instructions, and approved Shop Drawings.

3.2 INSTALLATION - CURVED WALLS

- A. Attach top and bottom curved runner channels at ends and maximum 24 inches on center.

- B. Position studs vertically in runners, spaced centers as per Contract Drawings.
- C. Locate studs maximum 2 inches from door frames and abutting construction.
- D. Use double studs on both sides of openings in partitions.
- E. Install horizontal runner as header above openings in partitions. Install studs from header to top runner.
- F. Screw attach components at intersections.

END OF SECTION