

PART I – GENERAL**WORK SPECIFIED HEREIN**

- All labor, materials, equipment and services necessary to furnish and install all cold-formed steel framing as indicated or specified.

SUBSTITUTIONS

- In accordance with Section 01600.

SUBMITTALS

- Unless otherwise notes, the contractor shall prepare all shop drawings, product literature, etc. only as required to properly coordinate and construct the project.
- Review submittals by the Professional of Record is limited to specific shop drawings as called for in the Project Manual.
- Shop drawings for review by the Professional of Record are not required for this section.

PART II – PRODUCTS**MATERIALS**

- Structural steel studs shall be sizes indicated.

FABRICATION

- Option: Provide prefab metal stud truss framing for the front canopy when requested.

PART III – EXECUTION**INSTALLATION**

- Installation of studs shall be as per ASTM C1007-00 "Installation of Load Bearing (Transverse and Axial) Steel Studs and Accessories", ASTM C955-00a "Specification For Load Bearing (Transverse and Axial) Steel Studs, Runners (Track), and Bracing or Bridging for Screw Application of Gypsum Board and Metal Plaster Bases", and ASTM C754-00 "Specification For Installation of Steel Framing Members to Receive Screw Attached Gypsum Board."
- Securely anchor track to floor with 1/2" diameter bolts at 48" o.c. maximum, or with 0.145" Ø powder driven fasteners at 8" o.c. maximum with 2 bolts or fasteners per any track sections; provide top track.
- All track butt joints, abutting pieces of track shall be securely anchored to a common structural element, or they shall be butt-welded or spliced together.
- All stud bridging shall be attached in a manner to prevent stud rotation. Bridging rows shall be spaced according to Dietrich Indus. recommendations.
- Temporary bracing shall be provided until erection is completed.
- Joists shall be located directly over bearings studs or a load distribution member shall be provided at the top track.

- Provide web stiffeners at reaction points where indicated by plans.
- Joist bridging shall be comprised of solid bridging and flat strapping. Use solid bridging in first and last two rows of joists. Attach flat strapping to top and bottom flanges of joists from third row extending for a maximum of 10'-0". Repeat solid bridging for one joist space and then another 10'-0" of flat strapping. Repeat. Omit top flange bridging where metal deck is properly attached to the top flange of joists.
- Joists shall be bridged at maximum 8'-0" spacing.
- End blocking shall be provided where joist ends are not otherwise restrained from rotations.
- Joists must have a minimum of 10" unpunched steel at bearing points. Studs must have a minimum of 10" of unpunched steel at each end.
- Stud ends must be squarely seated against the track web. Both stud flanges must be attached to track members at top and bottom by welding flanges to track or with (4) #10 TEK screws, (2) top and (2) bottom. Space studs as indicated on drawings but not greater than 24" o.c. triple up studs with 2 studs full height at all jamps.
- Stud bridging shall be provided by 1-1/2" cold rolled u-channel. The u-channel must be attached to each stud by welding or attaching with clip angles and screws. Horizontal strapping and solid bridging with track members can also be used for bridging. Bridging shall be spaced at 4'-0" o.c. max.
- Brick ties shall consist of "Dur-O-Wal" D/A 210 and D/A 807 screws with D/A 700 series triangle ties at 16" o.c. horizontally and vertically.
- The following minimum cold formed steel attachments shall be provided U.N.O.:

Track to Structural Steel	(1) - .145 Ø powder driven fastener @ 2'-8" o.c.
Track to Metal Deck	(1) - #10 TEK screw @ 1'-4" o.c.
Track to Masonry	(1) - .145" Ø powder driven fastener @ 2'-8" o.c.
Stud to Structural Steel	(1) - L2x2x - 14 ga. clip angle connection w/(2) - #10 TEK screws into metal stud and (2) - .145" Ø powder driven. Fasteners into structural steel.
- Touch-up field abrasions and welds in the field after erection using the same materials as shop coat paint.

END OF SECTION

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