

Division 05 - Metals

05120 – STRUCTURAL STEEL

FRAMING - temporary and permanent, shall conform to the AISC Specifications for the Design, Fabrication, and Erection of Structural Steel for Buildings; members, shapes, sizes, framing, connections, finish(es) and shop drawings, as required.

A – WELDING shall be in accord with Structural Welding Code-Steel of American Welding Society, and shall be made only by welders, tackers, or welding operators who have been qualified and certified within past six months by tests prescribed in **AWS D1.1**. Copies of required certification shall be a required submittal prior to starting such work. Exposed-to-view welds shall be ground smooth.

05215 – OPEN-WEB STEEL JOISTS AND GIRDERS –

Fabrication and erection in accord with documents published by Steel Joist Institute and American Institute of Steel Construction; design, series selection, accessories, engineering, and shop drawing(s) as required.

A – WELDING – Same as Item 05120-A preceding.

05300 – METAL DECKING –

Conform to Specifications for Design of Light Gauge Cold-Formed Steel by American Iron and Steel Institute, requirements of Steel Deck Institute Code for Recommended Standard Practice, **ASTM A611** Specification for Steel, Cold-Rolled Sheet, Carbon, Structural, and **Fed Spec QQ-S-775C**; ribbed/ corrugated Grade C structural quality noncellular steel sheets; minimum 33,000 psi design strength; galvanized **ASTM A446** for roofs, **ASTM A570** shop primed for floors.

A – FASTENING SYSTEM – Pneumatic or percussion preferred; welding as may be required and as acceptable to **LPS** Property Management Services Department.

B – SHOP DRAWINGS submittal shall include structural properties of decking; type, size and location of openings; type, size and extent of fastenings.

05400 – COLD FORMED METAL FRAMING –

AMICO, Bostwick, Inryco MILCOR, Keene, SPEED STEEL, USG, United States SUPER C, Wheeling STEEL FRAMING, Verco VERCOR; size(s), gauge(s), type(s), accessories, assembly, location(s) and finish(es) as required.

05500 – METAL FABRICATIONS –

Steel as per Section 05120 preceding.

A – FASTENERS AND ANCHORS – Screws, bolts, clip angles, plates, brackets, connectors and washers: same material and finish to match fabricated item.

B – LINTELS – Steel angles, channels, tees, beams and plates as required to bridge masonry openings, minimum 6" bearing each end.

C – FRAMED ROOF OPENINGS – Steel angle support frames between steel joists for openings in metal roof decks that are over 6" round or square and not over 4' square or diameter; as required.

D – HAND AND GUARDRAILS – Nominal 1¼" i.d. Standard Schedule 40 steel pipe with wall brackets, wall returns, flange accessories and screw, bolt, rawl plug, molly, toggle, tampin or expansion anchorage(s) suitable for back-up

E – GUARD POSTS – Nominal 6" i.d. Standard Schedule 40 steel pipe filled with minimum 3,000 psi concrete and buried at least half the total length of post. **F – SIDEWALK GUTTERBOXES** – Not desired by **LPS** Property Management Services Department; where required, covers shall be solid with non-skid surface, galvanized steel or aluminum.

G – TRENCH GRATING – Iron; selected as required.

H – ACCESS LADDERS – Galvanized pipe, tube, bars, anchorages as required, with non-skid surface on rungs. **I – STEEL PAN STAIRS** – Stringers, carriages, supports, framing of structural steel members; meeting Building Code live-load requirements, design as required.

J – SHIP'S LADDERS – Stringers, carriages, supports, framing of structural steel members to meet Building Code live-load requirements; non-skid treads. **K – ALUMINUM TRIM** – Extruded anodized joint covers, fillers, corners, running trim in size(s), shape(s), finish(es), color(s) approved by **LPS** Property Management Services Department. 05700

– ORNAMENTAL METAL – Material(s), size(s), location(s), finish(es) approved by **LPS**. **A –**

SUBMITTALS – Furnish product data edited for pertinence to project, shop drawings, samples

and calculations, certifying compliance with loading requirements. 05810 – EXPANSION JOINT

COVER ASSEMBLIES – Prefabricated metal expansion joint covers for interior and exterior exposed

applications; material(s), size(s), configuration(s), location(s), finish(es) as determined and engineered by **A/E** or **DBT**.

A – SUBMITTALS – Furnish product data edited for pertinence to Project, with shop drawings, samples and calculations certifying compliance with loading requirements.