

SECTION 0500 - MISCELLANEOUS METALS

PART 1 - GENERAL

- 1.1 DESCRIPTION
A. Description of Work:
1. Miscellaneous metal work includes items fabricated from iron and steel plate, plate, bars, sheet, coils, pipe, castings which are not a part of the structural steel of other metal systems in other Sections of the Specifications, except as specified herein.
The types of miscellaneous metal items include, but are not limited to the following:
a. Support Angles and Braces
b. Angles and Channel Fencing
c. Roof Access Ladder
d. Pipe Brackets
1.3 QUALITY ASSURANCE
A. Qualifications for Welding Work:
Qualify welding processes and welding operators in accordance with the AWS D1.1 - "Structural Welding Code - Steel" and welders shall be certified in accordance with AWS D1.1. Shop Acceptance and Field Acceptance tests to be conducted on test pieces as directed by the Architect and approved by the Engineer at project site. Discontinue units only upon notification for shipping or archiving an installation. Clearly mark units for assembly and coordinate installation.

PART 2 - PRODUCTS

- 2.1 MATERIALS
A. Metal Prime Paint: Use "100 Series Tronox Prime", "Rusttalon No. 1169 Prime", or equal approved in accordance with the Architect. Prime coat must be compatible with the selected finish coats of paint. Coordinate selection of metal prime paint with the selected finish coats of paint.
2.2 FABRICATION - GENERAL:
A. Workmanship:
1. Material of work and thickness shown or not shown of required size and thickness to produce adequate strength and durability in finished product for intended use. Work to dimensions shown or specified on shop drawings, using correct tolerances of fabrication and support. Use typical materials shown or specified by various companies of work.
2. Form exposed work true to line and with accurate edges and surface and straight sharp edges. Except exposed edges to a radius of approximately 1/32" unless otherwise shown. Form bare metal corners to smallest radius possible without causing grain separation or internal cracking of the work.
3. Form exposed connections with hairline joints which are flush and smooth. Use Philips flathead (countersunk) screws or bolts for fastenings and for bolting.
4. Weld corners and seams continuous and in accordance with recommendations of AWS D1.1. Grind exposed welds smooth and flush, to match and blend with adjoining surfaces.
5. Provide for anchorage of pipe and cable, coordinated with structural recommendations of AWS D1.1.
6. As shown and as required to provide adequate support for intended use of work.
7. Cut, notch, drill and weld miscellaneous metal work as may be required to receive finish hardware and similar items of work.
8. Use steel sheet steel bars for work fabricated from bar stock, unless work is shown or specified to be fabricated from cast-iron or cast-steel stock.
9. Connections: All connections shall be welded, unless otherwise shown on drawings or specified herein.
B. Shop Painting:
1. Shop paint all miscellaneous metal work except those members or portions of members to be concealed in finished product without causing grain separation or internal cracking of the work.
2. Remove scale, rust and other deleterious materials before shop coat of paint is applied. Grind away heavy rust and scale in accordance with SSPC SP 7 "Near White Cleanliness" or SSPC SP 13 "Power Tool Cleanliness" or SSPC SP 7 "Brush Off White Cleanliness". Remove oil, grease and similar contaminants in accordance with SSPC SP 1 "Solvent Cleaning".
3. Apply one shop coat of metal prime paint to fabricated metal items, except shop coat of paint to surfaces which are inaccessible after assembly or erection. Change color of finish coat to determine if from first.
4. Immediately after surface preparation, brush or spray on metal prime paint, applied in accordance with the manufacturer's instructions and at a rate to provide uniform film thickness of 2.0 mils. Use shop painting methods which will result in full coverage of joints, corners, edges and all exposed surfaces.

2.3 MISCELLANEOUS METAL ITEMS:

- A. Carpenter's Job Work:
1. Furnish bolt or otherwise custom fabricated bolts, plates, angles, hangers, downs and other miscellaneous items to be used and shop and all material for framing and supporting work, and for anchoring or securing work to concrete or other structural members.
2. Manufacture fabricated items of steel, brass and dimensional required. Furnish materials for framing for heads and walls with bare wood structural connections; otherwise furnish steel washers.
3. Manufacture custom framing and supports.
1. Provide miscellaneous steel framing and supports which are a part of structural steel washers as required to complete work.
2. Manufacture miscellaneous units of steel, shapes and profiles shown or, if not shown, of structural steel shapes and plates and steel bars of all exposed connections using proper connections. Use steel washers and plates and a minimum number of bolts for each connection. Cut, drill and weld units to receive hardware and similar items of work.

PART 3 - EXECUTION

- 3.1 INSTALLATION:
A. Anchorage: Furnish setting drawings, diagrams, templates, instructions and directions for installation of anchorage, such as concrete anchors, anchor bolts and miscellaneous items having unique anchors, which are to be embedded in concrete construction. Coordinate delivery of such items to project site.
B. Framing to in Place Concrete: Provide anchorage details and fasteners where necessary for securing miscellaneous metal items to concrete construction, including threaded fasteners for concrete, rebar bolts, through bolts and other connections as required.
C. Cutting, Fitting and Finishing: Perform cutting, fitting and fitting required for installation of miscellaneous metal items. Set work accurately in location, alignment and elevation, plumb, level, true and free of rack, twist, bow, or other undesirable conditions.
D. Connections: Connections shall be made in accordance with the manufacturer's instructions which are to be built into concrete, masonry or similar construction.
E. Connections: Connections shall be made in accordance with the manufacturer's instructions which are to be built into masonry, but cannot be shop welded because of shipping size constraints. Grind joints smooth and touch up shop coat. Do not weld, cut or abrade surfaces of units which are galvanized and are needed for bolted or screwed fast connections.
F. Field Welding: Comply with AWS Code for procedures of manual shielded metal arc welding, appearance of welds, quality of welds, metal and process used in connecting welding work.

3.2 FIELD PAINTING:

- A. Immediately after erection, coat field welds, bolted connections and abraded area of shop paint. Wire brush and sand necessary to obtain a smooth surface. Apply paint by brush or spray to provide a minimum dry film thickness of 2.0 mils.

SECTION 0500 - METAL CANOPIES

PART 1 - GENERAL

- 1.1 DESCRIPTION
A. Work includes: Metal canopy decking, gutters, half-round fascia, LED Star Stars, fabric patio canopy cover and frames, post-structure and down elements.

PART 2 - PRODUCTS

2.1 METAL CANOPY AND COMPONENTS

- A. Canopy decking shall be 1/2" x 12" x 1/2" or 3/4", not formed panel. Panel shall be accurately cut to meet from 26 gal. embossed pattern steel with baked polyester painted finish.
B. Gutters shall be 3/8" deep by 1 1/2" wide. Product shall be accurately formed from .040 (embossed) aluminum with baked polyester painted finish.
C. Half-Round Fascia components shall be accurately formed from .050 aluminum with a baked polyester painted finish.
D. LED Star Stars (red and yellow) shall be supplied as part of half-round fascia system through the canopy system and shall be as manufactured by Ocean Systems, Inc.
E. Fabric Patio Covering: Seaman Corporation's High Performance 8026 Architecture Fabric with a baked polyester painted finish.
F. Down: Fabricated downspout wall components shall be accurately formed from 26 gal. laminated steel panels with a baked polyester painted finish.
G. Tension Bar Components shall be accurately formed from 1/8" dia. steel with a baked polyester painted finish.
H. Covers shall be:
1. Decking: Clear White
2. Gutter: Shower-Williams "Dry Away" SW 1052
3. Half-Round Fascia & Tension Bars: Norbar Aluminum, Silver Metallic, DEV 5010, polyester, SEPT 02.05, contact Larry Keller, 563 234 2121
4. Tension Bars: Shower-Williams "Dry Away" SW 1052
F. All trim pieces, angles, brackets, etc., shall be the same type and finish as adjacent material, unless specifically described on the drawings, and furnished by the same supplier of the other canopy materials to insure quality and consistency.

2.2 MANUFACTURERS

- A. Approved Vendors are:
1. Ventura Corporation, 4345 South 93rd East Ave., Tulsa, OK, 74147, (902)324-0874, (918) 660-0419 fax.
2. Mason Corporation, 123 W. Ontario Rd., Birmingham, AL 35209-6302, (205) 988-4100, (205) 943-4304 fax.
3. Arroyo Group Systems, Inc., 201 Industrial Park Pl., Covington, MO 65020, (800) 332-5074, (417) 941-3081 fax.
4. The above listed (2) manufacturers are the only manufacturers approved by Sonnet Corporation for providing the entire post system, metal panel of system, and down.

PART 3 - EXECUTION

- 3.1 COORDINATION
A. Coordinate as required with other trades to ensure proper and adequate provision in work of those trades for framing with the work of this Section.
B. Make measurements as required in the field to assure proper fit.
C. Reference Section 0210 for canopy structural steel and angle steel.

3.2 INSTALLATION

- A. Approved vendors must provide an installation guideline to the contractor.
B. The contractor must install metal canopy components in accordance with the vendors installation guideline.
C. Fastening of the decking components shall be with self-drilling coated screws. Screws shall be of sufficient size to insure the strength of the connection as per the drawings. Exposed screws and nuts shall be coated to match adjacent material.
D. Contractor shall clean canopy prior to completion of project. As all screws from drilling and cutting are to be blown off, no washers to prevent premature rust.

PART 3 - EXECUTION

- 3.1 FINISH
A. See notes for surface level and plumb, or correction.
B. Make provisions for erection, level, and for temporary bracing to maintain structure safe, plumb, and true alignment.
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D. Construct connections with framing members full length without notches.
E. Double members shall be spaced apart 36 inches wide. Space apart studs over and under openings to stud framing.
F. Brackets shall be spaced as shown on drawings.
G. Gird support openings where prefabricated curbs are provided. Form corners by alternating lagging and shears.
H. Coordinate curb installation with installation of decking and support of decking, roofing, vapor retarder and parapet.

3.2 SHEATHING

- A. Sheath roof sheathing with longer edges parallel to framing members with ends staggered and sheet ends over lapping.
B. Use sheathing edge between sheets, between roof framing members. Provide solid edge blocking between sheets.
C. Secure sheathing with long dimension parallel or perpendicular to web studs, with ends over firm blocking and staggered.
D. Sheath building wall horizontally over wall sheathing, weather-lap edges and ends laps.
E. Install fasteners and structural plate bar top, where indicated on drawing.

3.3 TOLERANCES

- A. Framing Members: 1/16th (6 mm) from true position, maximum.

SECTION 0510 - ROUGH CARPENTRY

PART 1 - GENERAL

- 1.1 DESCRIPTION
A. Work includes: Provide wood, nails, bolts, screws, framing anchors and other rough hardware, and other items needed, and perform rough carpentry for the construction shown.
1.2 QUALITY ASSURANCE
A. Use experienced members of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods named for proper performance of the work of this Section.
B. Cut and square materials.
2. Lumber and plywood shall bear the grade mark, stamp or other identifying mark indicating grade of material and use or standards under which grades they are produced. Such identifying marks shall be in accordance with the use of standard materials produced.
3. Lumber Species: Comply with PS 20 for industrial use.
4. Lumber shall be of dimension 2x4 or greater unless otherwise specified by ASTM D242.
5. Plywood Standards: Comply with PS 19, except as otherwise indicated, for each use.
6. Refer to the references for nominal sizes and actual sizes that will vary the manufacturing tolerance allowed by the standards. Moisture content shall be to 19% maximum.

PART 2 - PRODUCTS

2.1 ROUGH CARPENTRY MATERIALS:

- A. Lumber: Use Best Quality Southern Pine, or greater, in accordance with dimension lumber equal or greater than 2" in its least dimension.
B. Structural joists framing in dimension lumber which is equal to or less than 4" shall be Southern Pine or Douglas Fir Larch No. 2 or better.
C. Fabricated wood joists: Shall be equal to APA rated joists or show on the plan. Joist depth shall be as on the drawings, provided such a 1/2" thick metal nail rim same depth of joist as shown, or No. 2 Southern Pine.
D. Joist: Provide joists from one of the following:
1. Luanne Pacific, (503) 227-8000
2. Trus Joist, (800) 338-0015
3. Williams Wood Products, (541) 326-7777
D. Roof Sheathing: Shall have an APA span rating of 321E for structural 1 rated sheathing, with a minimum thickness of 1/2" and exposure rating: exterior plywood, or OSB. Use common or gweatened box nails as noted on plan.
E. Exterior Wall Sheathing: Shall be equal to "CDX" exterior plywood or OSB as shown. Other plywood shall be used in accordance with the manufacturer's recommendations of AWS D1.1.
F. Luanne Pacific, (503) 227-8000
G. Hovee Traded Wood Products, (709) 595-5000
H. Williams Wood Products, (541) 326-7777
I. New-Structural Wood Rough Boards, Nails, Bolts and Furring: Any species, standard grades, unless otherwise specified.

2.2 ACCESSORIES

- A. Fasteners and Anchors:
1. Fasteners: Hot-dipped galvanized steel for high humidity and treated wood locations, unfinished steel otherwise.
2. Adhesive: APA AF-01, waterborne, low cure type, compatible with wood.
B. Steel Plates:
1. Comply with ASTM A106 or ASTM A307.
2. Machine bolts: Comply with ASTM A307.
3. Washers: Comply with ASTM F436-01.
4. Nails:
a. Common: except all other than nails.
b. Comply with Fast Spec FF-11.
c. Use galvanized or exterior coatings.
5. Wood Framing Connectors: Shall be equal to the following as manufactured by Simpson Strong-Tie Connector, (800) 839-2998.
Such nails shall be built in where and as indicated on Drawing or required for attachment of floor and exterior wall framing.

2.3 FABRICATION

- A. Fabricate joints to meet minimum requirements for perfect fit.
B. Brace members for support during framing.

3.1 EXAMINATION

- A. Verify that all materials are ready to receive decking.

3.2 PREPARATION

- A. Coordinate placement of bearing support items.

3.3 INSTALLATION - FLYWOOD DECKING

- A. Install decking parallel to framing members, with ends staggered from beam framing.
B. Allow expansion and contraction.
C. Attach decking as indicated on the structural drawings.

3.4 TOLERANCES

- A. Surface Finish of Decking Without Load: 1/4 inch in 10 feet maximum and 1/8 inch in 30 feet maximum.

SECTION 0516 - FLYWOOD WEB JOISTS

PART 1 - GENERAL

- 1.1 SECTION INCLUDES
A. Flywood Joists and Plywood or Oriented Strand Board (OSB) web joists for Framing.
B. Bridging, girders, and anchors.
C. Fasteners and anchors.
D. Preservative treatment of wood.
1.2 REFERENCES
A. American Lumber Standards Committee - Softwood Lumber Standards.
B. ANSI/APA - National Formed Wood Association.
C. APA (American Plywood Association).
D. NWFA (National Formed Wood Products Association).
E. NFPA (National Fire Protection Bureau).
F. WQCB (West Coast Lumber Inspection Bureau).
G. WPA (Western Wood Products Association).

1.3 QUALITY ASSURANCE

- A. Perform Work in accordance with the following agencies:
1. Lumber Grading Agency: Certified by ALSC and AITC 109.
2. Plywood Grading Agency: Certified by APA.
3. Wood Laminated Decking: AITC 109 and AITC 113.
4. Ply Form work in accordance with ANSI A103.1.
5. In lieu of grade stamping to manufacture lumber and plywood, submit manufacturer's certificate certifying compliance with the following agencies:
a. United States Plyform, (877) 874-6665.
b. Luanne Pacific, (503) 227-8000.
c. Right Roof Insulation, (TDRU LAST) FLEXIBLE SHEET ROOFING).
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