

## **DIVISION 2 - SITEWORK**

### **Section 02830 - Fences and Gates**

#### **Introduction**

The items listed below are unique to the University of Arizona requirements and shall be incorporated in to the specifications and drawings prepared by the Consultant.

#### **Part 1 - General**

- Refer to the Chain Link Fence Manufacturers Institute Voluntary Standards for Chain Link Fence Installation.

#### **Part 2 - Products**

- Fabric shall be 9 gauge, 2" weave w/ Class 2 hot dipped galvanized finish, w/ not less than 1.2 oz. of Zinc per square foot, applied before weaving, and with top and bottom selvages knuckled.
- Framing members (including post, rails, braces, gate frames) shall be Type 1 pipe, Schedule 40, hot dipped galvanized w/ not less than 1.8 oz. of Zinc per square foot of surface: posts and rails shall have caps to exclude moisture; rails shall be attached to posts w/ malleable rail end caps w/ 7/8" beveled steel brace band.
- Posts and rails shall be standard gauge steel pipe sized as follows:
  - Corner posts up to 6 feet tall: 2.375" O.D.; over 6 feet tall: 4.00" O.D.
  - Line posts up to 6 feet tall: 2.00" O.D.; over 6 feet tall: 2.375" O.D.
  - Gate posts for leaves up to 6 feet wide: 2.875" O.D.; for leaves from 6 to 13 feet wide: 4.00" O.D.
  - Gate frames: 2.00" O.D. structural grade pipe
  - Rails: 1.625" O.D. w/ 7" long (min.) mid-span expansion couplings
  - Tension wires: .177" O.D. marcelled steel tension wire w/ Class 2, galvanized coating

#### **Part 3 - Execution**

- Foundations shall be concrete with a 28 day compressive strength of 2500 PSI, constructed w/ top of footing 2" above adjacent finished grade and sized as follows:
  - Terminal posts: 16" dia. w/ 39" depth of post embedment
  - Line posts: 12" dia. w/ 39" depth of post embedment
- Terminal posts shall be braced with 1.625" O.D. rail installed between the midpoints of the post and the first line rail (in each direction at corners). Attach braces as rails; secure w/ .375" dia/ truss rods from line post to terminal post.
- Bottom of fabric shall be 2" above adjacent finished grade.
- Attach fabric to posts, rails, braces and tension wires at 15" o.c. (max); attach fabric to posts w/ tension bars and clips; stretch fabric between terminal posts or every 100'. whichever is less.
- Gate hardware for swing gates shall include three hinges per leaf, provisions for pad-locking with cast metal fork latch, drop bolt and drop bolt retainer; hardware for rolling gates shall include heavy duty track, ball bearing hangar sheaves, overhead framing and supports, guides stays, bracing and locking devices as desired.
- Gates shall be braced with midpoint bracing as for terminal posts and with a bottom rail.

#### **End of Section 02830**