
Special Specification 5098

Wooden Bollards



1. **Description.** Furnish and install wooden bollards.
2. **Materials.** Furnish new round timber posts in accordance with details shown in the plans and meeting the requirements of DMS-7200, "Timber posts and Blocks for Metal Beam Guard Fence."

Assure that bollards meet retro reflectivity requirements as shown on the plans and specified by the Texas MUTCD and the ATSSA (American Traffic Safety Services Association) Brochure on Retro reflectivity.
3. **Construction.** Install bollards in accordance with the details shown in the plans by drilling or driving.
 - A. **Drilling.** Drill holes and set posts plumb and firm to the height shown. Backfill posts by thoroughly tamping the fill material in 4 in. layers.
 - B. **Driving.** Drive posts plumb with approved power hammers (steam, compressed air, vibratory, or diesel) or gravity hammers to the height shown. Use a structural steel driving head suitable for the type and size of post being driven with wood cushion blocks as necessary to prevent damage to the post. Rope mat, belting, or other similar cushioning material may be used in addition to wood cushion blocks. Use pilot holes when required or permitted. Determine the size and depth of pilot holes with the approval of the Engineer based on results of trial operations of the first few posts driven. Thoroughly tamp loosened soil around the post, fill with suitable material and void between the soil and the post resulting from the driving, and thoroughly compact to the density of adjacent undisturbed material.
4. **Measurement.** Measurement will be by each wooden bollard completed in place.
5. **Payment.** The work performed and material furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid for "Wooden Bollards". This price is full compensation for hauling, excavation, installation, backfilling, disposal of surplus materials, equipment, labor, materials, tools, and incidentals. Samples furnished to the Department for testing purposes will not be paid for directly but are subsidiary to this Item.