
SECTION 46 – SURVEY MONUMENTS

46-1 GENERAL

This work shall consist of constructing cast-in-place portland cement concrete survey monuments at the locations shown on the Plans or directed by the City. Survey monuments shall conform to these Specifications, and Section 12 of the Improvement Standards.

When set forth in the Special Provisions that the Contractor is to provide all surveys, the Contractor shall be responsible for referencing, re-setting, and filing of corner records for all survey monuments disturbed or destroyed by construction activities in accordance with Section 8771 of the Land Surveyors Act.

All survey monuments and references shall be set or re-set by or under the direction of a California Licensed Land Surveyor or a California Registered Civil Engineer authorized to practice Land Surveying in the State of California.

46-2 MATERIALS

Unless otherwise specified in the Special Provisions, the street survey monument well is to be installed per ST-40 of the Standard Drawings.

Survey monument marker discs shall be furnished by the Contractor and shall be leaded red or semi-red solid brass conforming to ASTM Designation: B 584, Copper Alloy UNS No. C84400. The disc shall be two and one-half inches (2-1/2") in diameter and not less than two and one-half inches (2-1/2") long.

Concrete shall be Class "B-2" concrete as specified in Section 50-5, "Portland Cement Concrete", of these Specifications.

Mortar shall be as specified in Section 51-1.135, "Mortar", of the State Specifications.

46-3 CONSTRUCTION

The brass disc shall be imbedded in fresh concrete and centered within the cross ties of the survey point.

Finished monument cases shall be flush with the surrounding area and shall be secured by a concrete or mortar collar as detailed on the City Standard Drawing ST-40. Survey monuments on new deck construction do not have monument cases and shall be constructed as shown in the Plans.

It is essential that the survey monuments be placed in the correct locations. Survey monuments placed in locations unacceptable to the City shall be removed and replaced at the Contractor's sole expense.

The Contractor shall be responsible for installation of the marker disc in fresh concrete so that it is properly centered within the cross ties of the survey point.

46-4 MEASUREMENT AND PAYMENT

The quantities of each type of survey monument will be paid for as survey monuments by units, in place, determined from actual count. The unit prices paid for survey monuments include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in constructing the survey monuments, complete in place, including monument cases, granular material, excavating and backfilling holes, disposing of surplus excavated material, and completing and filing all records of survey and/or corner records as shown or specified in the

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Contract, specified in these Specifications, and directed by the City.