



Category 37 – Initial Tests and Acceptance Tests

Introduction

This file consists of the records of all Initial Tests and Acceptance Tests for materials sampled on the job, including those materials which are sampled on the job but tested elsewhere. It also provides a place to file summaries of these test results. Refer to Chapter 3 of the *Construction Manual* for additional information.

Independent Assurance (Progress) and Final Test Results are to be filed in Category 39 as explained elsewhere in this section of the *Bridge Construction Records and Procedures*.

Format

The Category 37 file is divided into sections by index tabs which list the various materials sampled on the job according to contract item. Following is a listing of the divisions and subdivisions to be used for test results of structures materials sampled on the job. Note that additional divisions and subdivisions may be added or deleted, depending on what materials are sampled and tested.

Structure Backfill (Bridge)

- 37. -- * 1. SE and Gradings
- 2. Relative Compaction

Previous Material

- 37. 1. SE and Gradings

Bar Reinforcing-Steel (Bridge)

- 37. 1 Tests

Structure Concrete (Bridge)

- 37. -- 1. Contractor's Grading Letter
- 2. Fine Aggregate
- 3. Coarse-Aggregate, 1" max.
- 4. Coarse Aggregate, 1½" max.
- 5. Cement
- 6. Unit Weight or Uniformity Test
- 7. Compressive Strength
- 8. Water

9. Air Entraining Agents or other admixtures
10. Curing Compounds
11. Bearing Pads
12. Expansion Joint Filler

Joint Seals

37. -- 1 Tests

Membrane Waterproofing

37. -- 1 Primer
2 Fabric
3 Asphalt

Paint

37. -- 1 Prime Coats
2 Finish Coats

Contrast Treatment

37. -- 1 Asphalt
2 Aggregate (SE and Grading)

Example: The file number for compressive strength test results of job taken samples of structure concrete (Bridge), Item No. 108, would be 37.108.7.

where:

37= The file category

108= The division number which corresponds to the Contract Item No. structure concrete (Bridge).

7= Subdivision number as indicated in the above listing.

Filing Summary Sheets

A test Result Summary, Form DS-OS C57, will be filed behind each index tab. The results of tests of all Progress Control (Initial) Samples and Acceptance (Job Control) samples of structure materials will be shown on these summary sheets. Form DS-OS C57 is self explanatory.

Certain materials are also subject to statistical analysis, and test results are to be displayed on appropriate charts. These charts are filed in the corresponding category, and may be used in lieu of a Test Results Summary Sheet. See Statistical Testing elsewhere in this section.

Individual test results are to be filed directly behind the appropriate Test Result Summary Sheet. Tests made on the job (except relative compaction) are to be made on the appropriate Office of

Structure Construction form. Results of tests made in the District or Headquarters Lab will be reported on a lab report form.

When an Independent Assurance (Progress) or Acceptance (Job Control) sample fails, the following information must be shown under "Remarks" on the corresponding summary sheet:

Magnitude of failure (i.e. variation of spec limits).

Apparent reason for failure (testing or sampling procedures, producers procedures, etc.)

Corrective action taken and results obtained.

It should be pointed out that as in the case of concrete aggregates, for instance, only one division need be established if the source of material and supplies are the same, and the test results represent the same materials. If this is done, those sections should be adequately cross-referenced.