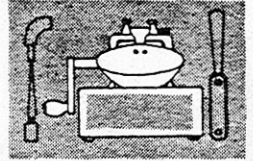


ARIZONA HIGHWAY DEPARTMENT • MATERIALS DIVISION

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CHANGE LETTER

October 24, 1969

	CHANGE LETTER NO. 1
SUBJECT: Index, Table of Contents, and ARIZ Test Methods Nos. 211a, 212a, 218, 301a, 304a, 401a, 405, 406a, 501, 703a, 708, 710, 800a, 802a, 806a, 811.	DATE OF ISSUE: March 1, 1970 EFFECTIVE DATE: March 1, 1970

SUMMARY

The following test methods are revised to reflect editorial and printing errors occurring in the first printing of the Materials Testing Manual. Destroy all old test methods unless otherwise noted.

1. ARIZ 211a. - Add "and 3 1/2 in. in diameter at the bottom." to the end of Part 2 (b), and delete "and" on line 2. Part 3 (c): delete "ten (10)" on line 3 and add "25". Delete the following sentence on lines 3, 4, and 5: "Repeat the process three more times, with ten, 3 and 2 tamps, respectively."
2. ARIZ 212a - Add "1/4 in.," after "3/8 in.," on line 3 of Part 2 (d). Change "one freshly fractured face" to "one fractured face." on line 3 of Part 4 (a). Also a NOTE has been added, in which a modification is given for Special Cover Material in relation to sieve sizes and sample sizes.
3. ARIZ 218. - Add period following "10" and preceeding "Include the following data:" on line 2 of Col. 2, Page 3. Footnote "a" of Table I. on page 3: Change "4.3" on second line to read "4 (d)." NOTE: Replace only the page affected.
4. ARIZ 301a - The revision occurs in part 4 (b), and consists of provision for a higher loading rate during the initial testing of cylinders and limitation of the loading rate to those machines other than manual and single-rate hydraulic.
5. ARIZ 304a - Addition has been made of a "Report" section, signifying accuracy of percentage of air to be reported.
6. ARIZ 401a - Temperature of the oven in Section 3 (b) has been changed to "235^o ± 5 F." Provision for fitting the bottom of the mold and the top of the mold with 4-in. paper discs has been added in sections 3 (c) and (d), respectively. Add "and remove the paper discs." to section 4 (a).
7. ARIZ 405. - Change "10,0000" in Note following sec. 3 (2) to read "10,000."

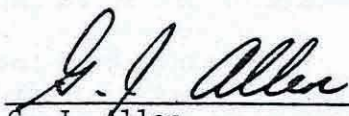
8. ARIZ 406a - Addition of a provision for use of 25-ml. traps has been added to sec. 2 (c).
9. ARIZ 501. Change "or" on line one of sec. 5 (a), page one, to "for." Change "332^o" in NOTE 5 (d), page 4, to "323^o"
10. Series 600 - Addition of the chemical analysis of portland cement, AASHO Designation: T 105 (ASTM C114)
11. ARIZ 703a. - Addition of statement that aggregate shall be dried to constant weight before being tested, sec. 4 (a), page one.
12. ARIZ 708. Change "or" in sec. 3 (b) to "and."
13. ARIZ 800a. - Deletion of NOTE at bottom of column one, page 2. Also deletion of "and run required tests with this percentage in the mixture," section 7, first paragraph. Also delete "in this test" from line 8 of "NOTE" on page 2, col. 2, and add "by design." Retain pages 3 through 8.
14. ARIZ 802a. - Change "3^oF" and "1.7^oC" in sec. 2 (a), 2 (b), and NOTE 1 on page one, column one, to read "1.8^oF and (1.0^oC)" respectively. Change "500.0000" in first line of sec. 2 (d) to read "50,000." Change "140^o ±1.8^oF" in sec. 2 (e) to read "140^o ±5^oF."
15. ARIZ 806a. - Add sec. 2 (d), provision for oven. Also change "325^o" on line 3 of sec. 4 (d) to read "235^o." Add centigrade temperatures throughout the test in parentheses after fahrenheit temperatures. Add "±2^oF" after "77^o" on line 4, column 2, page 1, section 5 (a). Also change "0.11" on line 3 of sec. 5 (a) to "0.1." Change "7041.9g" in line 3 of section 7, page 1 to "1041.9g." Repeat with line 4, column 1 of page 2, in the equation
"V_{mm} = 7041.9 + 3397.7 - 4002.8."

NEW TEST METHODS

1. ARIZ 710. - Determination of Anti-Stripping Agent in Asphalt.
2. ARIZ 811 Compaction of Bituminous Mixtures with Marshall Apparatus - an ASTM Modification (D 1559.)

The Index and Table of Contents have been revised to incorporate these tests.

ATTACHMENTS: Index, Table of Contents, and Test Methods Nos. ARIZ 211a, 212a, 218, 301a, 304a, 401a, 405, 406a, 703a, 708, 710, 800a, 802a, 806a, and 811.


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