

**INDIANA
DEPARTMENT OF TRANSPORTATION**

**SUPPLEMENTAL SPECIFICATIONS
TO THE
1999
STANDARD SPECIFICATIONS**

**EFFECTIVE FOR LETTINGS
ON OR AFTER
May 1, 2000**

Includes October 14, 1999 Minutes

INDOT INTERNET ADDRESS: www.state.in.us/dot/

1999 STANDARD SPECIFICATIONS WITH SUPPLEMENTALS: www.state.in.us/dot/TS/standards/book/

PREFACE

These Supplemental Specifications are a compilation of all revisions to the 1999 Standard Specifications passed by the INDOT Specification Committee and approved by the Chief Engineer. The effective date for this issue is shown on the front. Updated Supplemental Specifications are published every four months with effective dates of January 1, May 1, and September 1.

These revisions to the Standard Specifications are accomplished by deleting material from the Standard Specifications and inserting new material. Deletions are usually shown first, followed by new or replacing material. In tables and charts with columns, the new material appears below the deletions. Deletions from the Standard Specifications are identified by two ways, either by overstriking the deleted material or by written instructions when the deleted materials are complete paragraphs and five consecutive lines or more. New material that is inserted in the specifications is printed in *italics*.

The written instructions include the section number and the first affected line number. Such instructions no longer include the Standard Specifications page number. Line numbers which appear in the Standard Specifications also appear in the Supplemental Specifications material. Line numbering is shown as a continuation of the line numbering of Standard Specifications sections which are extended by means of Supplemental Specifications. The integrity of the Standard Specifications line numbering system is undisturbed by the Supplemental Specifications.

When deleting whole paragraphs, delete the blank space preceding the first paragraph to be deleted and leave the blank space following the last paragraph to be deleted.

Examples:

SECTION 910, BEGIN LINE 859, DELETE AND INSERT AS FOLLOWS:

(e) Square Steel Posts. ~~A type C certification shall be required~~ *Square steel sign post shall be covered by the type of certification specified in the Frequency Manual and in accordance with 916.*

SECTION 913, DELETE LINES 4143 THROUGH 4152.

SECTION 913, AFTER LINE 4153, INSERT AS FOLLOWS:

The last line of new material may appear several lines after line 4153. Everything from the beginning of the new material to the end of the new material is between lines 4153 and 4154.

The line numbers shown in the 1999 Standard Specifications do not reflect the counting of lines through tables. Therefore, lines in tables will be identified by the last line number preceeding the table with alphabetic letters for each line in the table. Such line numbers will be identified, as an example, as Lines 137a THROUGH 137g.

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| SUBSECTION | LINE | TITLE | DATE REVISED |
|---------------|------|---|-----------------|
| 101.01 | 27 | Abbreviations | 2/11/99 |
| 104.04 | 139 | Maintenance of Traffic | 1/14/99 |
| 104.04(d) | 213 | Traffic Control for Patching on a Two-Lane Roadway..... | 1/14/99 |
| 105.14 | 459 | Failure to Maintain Roadway, Structures, Barricades and Construction Signs | 1/14/99 |
| 107.01 | 34 | Laws to be Observed..... | 6/17/99 |
| 107.02 | 79 | Permits, Licenses, and Taxes | 6/17/99 |
| 107.12 | 359 | Traffic Control Devices | 1/14/99 |
| 107.17 | 580 | Opening Sections of Project to Traffic..... | 1/14/99 |
| 108.07 | 337 | Determination and Extension of Contract Time | 1/14/99 |
| 109.01(e) | 187 | Measurement of Portland Cement Concrete PCC..... | 2/11/99 |
| 109.03 | 302 | Compensation for Altered Quantities..... | 10/14/99 |
| 206.02(b) | 52 | Excavation for Foundations of Traffic Support Structures..... | 7/15/99 |
| 211.02(c) | 23 | <i>Coarse Aggregate For End Bent Backfill</i> | 9/16/99 |
| 211.02(e) (d) | 24 | Flowable Mortar Substitution | 9/16/99 |
| 211.03 | 56 | General Requirements..... | 9/16/99 |
| 211.07.1 | 96 | <i>Aggregate For End Bent Backfill</i> | 9/16/99 |
| 211.09 | 102 | Method of Measurement..... | 7/15/99 |
| 211.10 | 143 | Basis of Payment..... | 7/15/99 |
| 215 | 1 | <i>CHEMICAL MODIFICATION OF SUBGRADE SOILS</i> | 11/19/98 |
| 216 | 1 | <i>CELLULAR CONCRETE FILL, CCF</i> | 9/16/99 |
| 303.02 | 29 | Materials | 3/11/99 |
| 304.01 | 3 | Description..... | 2/11/99 |
| 305.01 | 3 | Description..... | 2/11/99 |
| 305.02 | 17 | Materials | 2/11/99 |
| 305.04 | 59 | Blank <i>Rubblizing Existing PCCP</i> | 2/11/99 |
| 305.05 | 79 | Patching Asphalt Pavement | 12/17/98 |
| 305.06 | 97 | Patching Rigid PCCP Pavement or Rigid PCCP Base | 2/11/99 |
| 305.06(a) | 127 | Patching with Portland Cement Concrete PCC..... | 2/11/99 |
| 305.06(b) | 160 | Patching with HMA Mixture..... | 12/17/98 |
| 305.07 | 163 | Blank <i>Retrofit Load Transfer for PCCP</i> | 2/11/99 |
| 305.10 | 185 | Widening | 12/17/98 |
| 305.10(b) | 202 | Widening with Cement Concrete PCC..... | 2/11/99 |
| 305.11 | 267 | Method of Measurement..... | 2/11/99 |
| 305.12 | 271 | Basis of Payment..... | 2/11/99 |
| 307.01 | 3 | Description..... | 2/11/99 |
| 307.02 | 10 | Materials | 2/11/99 |
| 307.03 | 26 | General Requirements..... | 2/11/99 |
| 307.04 | 35 | Joints | 2/11/99 |
| 307.05 | 43 | Placing Steel <i>Blank</i> | 2/11/99 |

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|-----------------|------|---|-----------------|
| 307.07 | 60 | Curing | 2/11/99 |
| 307.08 | 81 | Monolithic Curb..... | 2/11/99 |
| 307.10 | 103 | Basis of Payment..... | 2/11/99 |
| 310 | 1 | CEMENT CONCRETE PAVEMENT PATCHING <i>BLANK</i> | 2/11/99 |
| 401.05(b) | 79 | Gradation Table for Design ESAL Less Than 10,000,000 | 2/11/99 |
| 401.07 | 133 | Lots and Sublots..... | 12/17/98 |
| 401.09 | 144 | Acceptance of Mixtures | 2/11/99 |
| 401.16 | 272 | Density..... | 2/11/99 |
| 401.16(a) | 299 | Mainline ESAL Equal To or Greater Than 10,000,000 <i>3,000,000</i> | 2/11/99 |
| 401.16(b) | 340 | Mainline ESAL Equal To or Greater Than 3,000,000 and Less Than 10,000,000 <i>Blank</i> | 12/17/98 |
| 401.19(a) | 498 | Mixture | 2/11/99 |
| 401.19(b)1 | 510 | Mainline ESAL Equal To or Greater Than 10,000,000 <i>3,000,000</i> | 12/17/98 |
| 401.19(b)2 | 514 | Mainline ESAL Equal To or Greater Than 3,000,000 and Less Than 10,000,000 <i>Blank</i> | 12/17/98 |
| 401.20(b)1 | 557 | Mainline ESAL Equal To or Greater Than 10,000,000 <i>3,000,000</i> | 12/17/98 |
| 401.20(b)2 | 567 | Mainline ESAL Equal To or Greater Than 3,000,000 and Less Than 10,000,000 <i>Blank</i> | 12/17/98 |
| 401.22 | 598 | Basis of Payment..... | 2/11/99 |
| 402.06 | 89 | Acceptance of Mixtures | 12/17/98 |
| 402.13 | 254 | Compaction | 12/17/98 |
| 402.14 | 300 | Low Temperature Density Requirements | 12/17/98 |
| 405.02 | 12 | Materials | 2/11/99 |
| 408.03(f)1 | 185 | Profilograph | 2/11/99 |
| 500 | 1 | RIGID <i>CONCRETE PAVEMENT</i> | 2/11/99 |
| 601.02 | 19 | Materials | 2/11/99 |
| 601.06 | 99 | Guardrail Transitions..... | 6/17/99 |
| 601.07 | 119 | Guardrail End Treatments..... | 1/14/99 |
| <i>601.07.1</i> | 123 | <i>Impact Attenuators</i> | 2/11/99 |
| 601.12 | 152 | Method of Measurement..... | 2/11/99 |
| 601.13 | 163 | Basis of Payment..... | 2/11/99 |
| 605.06 | 138 | Cement Concrete Center Curbing..... | 2/11/99 |
| 605.09 | 239 | Method of Measurement..... | 2/11/99 |
| 605.10 | 253 | Basis of Payment..... | 2/11/99 |
| 610.01 | 3 | Description..... | 2/11/99 |
| 610.02 | 15 | Materials | 2/11/99 |
| 610.05 | 57 | Cement <i>Reinforced</i> Concrete Bridge Approach Pavement | 3/11/99 |
| 610.05(a) | 65 | Machine Method | 2/11/99 |
| 610.05(b) | 71 | Hand Method..... | 2/11/99 |

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|------------|------|--|-----------------|
| 610.06 | 89 | Method of Measurement..... | 2/11/99 |
| 610.07 | 103 | Basis of Payment..... | 2/11/99 |
| 611.02 | 11 | Materials | 2/11/99 |
| 611.06 | 84 | Method of Measurement..... | 1/14/99 |
| 611.07 | 111 | Basis of Payment..... | 1/14/99 |
| 614.01 | 3 | Description..... | 2/11/99 |
| 614.02 | 12 | Materials | 2/11/99 |
| 614.03 | 26 | Cement Concrete PCC Header | 2/11/99 |
| 619.06 | 116 | Maintaining Traffic..... | 1/14/99 |
| 622.20 | 368 | “Do Not Mow or Spray” Signs and “Do Not Disturb” Signs | 10/14/99 |
| 702.05 | 64 | Proportioning..... | 2/11/99 |
| 702.12 | 517 | Consistency | 2/11/99 |
| 702.13(a) | 537 | Construction | 5/13/99 |
| 702.13(e)2 | 581 | Permanent..... | 5/13/99 |
| 702.13(f) | 682 | <i>Precast Concrete Deck Panels</i> | 5/13/99 |
| 702.13(g) | 728 | Test Beams..... | 2/11/99 |
| 702.22 | 1143 | Curing Concrete..... | 5/13/99 |
| 702.24 | 1276 | Application of Loads to and Acceptance of New Concrete | 2/11/99 |
| 702.28 | 1393 | Basis of Payment..... | 5/13/99 |
| 704.05 | 80 | Finishing Concrete..... | 2/11/99 |
| 705.03 | 18 | Construction Requirements | 2/11/99 |
| 706.02 | 16 | Materials | 6/17/99 |
| 707.01 | 4 | Description..... | 5/13/99 |
| 707.02 | 18 | Materials | 11/19/98 |
| 707.03 | 31 | General Requirements..... | 5/13/99 |
| 707.05 | 161 | Forms | 5/13/99 |
| 707.06 | 211 | Placing and Finishing Cement Concrete..... | 5/13/99 |
| 707.09.1 | 347 | <i>Precast Prestressed Concrete Deck Panels</i> | 7/15/99 |
| 707.10 | 348 | Method of Measurement..... | 11/19/98 |
| 707.11 | 354 | Basis of Payment..... | 5/13/99 |
| 709.05(e) | 114 | Alternate To Concrete Sealers | 3/11/99 |
| 711.33 | 376 | Stud Shear Connectors..... | 6/17/99 |
| 711.69 | 911 | Method of Measurement..... | 11/19/98 |
| 711.70 | 932 | Basis of Payment..... | 11/19/98 |
| 711.70(b) | 1005 | Unit Weight Basis..... | 11/19/98 |
| 713.05 | 48 | Temporary Approaches..... | 1/14/99 |
| 713.08 | 78 | Method of Measurement..... | 1/14/99 |
| 713.09 | 89 | Basis of Payment..... | 1/14/99 |
| 718 | 1 | UNDERDRAINS | 6/17/99 |
| 722.04 | 58 | Proportioning..... | 2/11/99 |
| 722.08 | 278 | Placing and Finishing | 2/11/99 |
| 722.09 | 286 | Texturing..... | 2/11/99 |
| 722.10 | 305 | Curing | 5/13/99 |

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|-------------|------|--|-----------------|
| 801 | 1 | TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE OPERATIONS..... | 10/14/99 |
| 803.06(a) | 56 | Under Traffic | 1/14/99 |
| 806 | 1 | TEMPORARY TRAFFIC SIGNALS <i>BLANK</i> | 1/14/99 |
| 808.02 | 13 | Materials | 1/14/99 |
| 808.07(b) | 256 | Vehicle Warning Lights | 1/14/99 |
| 901.02(b)1 | 174 | Requirements..... | 2/11/99 |
| 901.04 | 328 | Microsilica <i>Silica Fume</i> Used As a Pozzolanic Mineral Admixture | 3/11/99 |
| 904.01(b) | 62 | For HMA Mixtures..... | 3/11/99 |
| 904.01(h) | 121 | Sampling and Testing | 2/11/99 |
| 904.02(d) | 285 | Surface Aggregate Requirements..... | 12/17/98 |
| 904.02(e) | 290p | Sizes of Coarse Aggregates..... | 11/19/98 |
| 904.03(c) | 337 | Exceptions to AASHTO 27 for Coarse Aggregates | 5/13/99 |
| 906.02(a)1d | 40 | Certification | 3/11/99 |
| 906.05(b) | 107 | Detail Requirements | 3/11/99 |
| 909.07 | 681 | Miscellaneous Paints and Ingredients <i>Blank</i> | 3/11/99 |
| 910.14(b) | 840 | Wide Flange Posts | 10/14/99 |
| 910.14(e) | 859 | Square Steel Posts..... | 11/19/98 |
| 910.14(e)1 | 874 | Steel | 11/19/98 |
| 910.14(e)2 | 875 | Fabrication..... | 11/19/98 |
| 910.14(e)3 | 880 | Protective Coating | 11/19/98 |
| 910.14(f) | 895 | <i>Portable Construction Sign Trailer</i> | 2/11/99 |
| 910.16 | 919 | Copper Flashing..... | 3/11/99 |
| 910.20 | 1225 | Blank Steel Bridge Railing Components | 6/17/99 |
| 912.01(f) | 24 | <i>Polyethylene Film</i> | 2/11/99 |
| 912.03(c) | 130 | Certification | 7/15/99 |
| 912.05 | 274 | Mineral Admixture | 3/11/99 |
| 913.04 | 31 | Hydrated Lime..... | 11/19/98 |
| 913.12 | 1574 | Construction Warning Lights..... | 1/14/99 |
| 913.13 | 1724 | Flashing Arrow Sign..... | 1/14/99 |
| 913.13.1 | 1724 | <i>Temporary Worksite Speed Limit Sign Assembly</i> | 2/11/99 |
| 913.14(c) | 2022 | Temporary Pavement Marking Tape | 1/14/99 |
| 913.14(c)1 | 2073 | Optical Performance..... | 3/11/99 |
| 913.19 | 4144 | Geotextile for Use with Underdrains | 3/11/99 |