

Summary of Edition Changes – January 2017

- **General.**
 - Editorial changes throughout the manual. Example: change ITD to “Department”.
- **Section 100.01 Quality Control (QC) (Producer)**
 - Better define “Producer”
- **Section 100.00.02 Acceptance Program (Buyer)**
 - Defined this as a “Program” and added types of acceptance.
- **100.00.03 Independent Assurance (IA)**
 - Added “personnel and equipment” to evaluation.
- **Section 100.01 Conflict of Interest**
 - Delete “an appearance of”
 - Delete “Quality Assurance” Changed to Verification and/or Acceptance testing performed by the Department. QA is not defined.
 - Deleted last two paragraphs of section.
- **Section 110.00**
 - No content changes
- **Section 200.00 Acceptance Program.**
 - Clarified requirements
- **Section 200.01 Dispute Resolution**
 - Changed to Test Result Dispute Resolution to distinguish from 105.16. this is described in 106.07.
- **Section 215.00, 220.00, 225.00**
 - No content changes
- **Section 230.00**
 - Minor editorial changes
- **Section 230.02 Certification Program Procedures for Portland Cement and Fly Ash**
 - Add QPL requirement remove Central Laboratory intranet page
- **Section 230.03.02 Metal Reinforcement**
 - Added holiday test to MTRs
- **Section 230.03.03 Buy America**
 - Added Idaho Division to FHWA.
- **Section 230.07 Corrugated Metal Pipe and Corrugated Plate Pipe**
 - Delete “CMP” from first sentence.
- **Section 230.10 Performance Graded Asphalt Binder.**
 - Added 230.10.01 to 230.10.05 move from Section 255.00
- **Section 240.00**
 - No content changes
- **Section 250.00 Sampling**
 - Changed inspector to Resident Engineer

- **Section 255.00 Performance Graded Binder Quality Assurance Plan.**
 - Deleted 255.01 to 255.05 and move to 230.10
- **Section 256.00**
 - No content changes
- **Section 260.01.01 Mix Design Requirements and Review Procedure**
 - Minor editorial changes
 - Add information on SPMDT required to qualifications in all procedures except as noted in table, requirements for subcontracting tests, SPMDT responsibility for testing.
 - Table 260.01.1 contains tests in AASHTO R 35 that are not in 405
- **Section 260.01.02 Definitions**
 - Change V_a to P_a per Asphalt Institute MS-2 7th Edition.
- **Section 260.01.03 Tolerances**
 - Delete the content of section and refer to Table 405.03.1.
- **Section 260.02 Concrete Pavement**
 - No content changes
- **Section 265.00 Qualified Aggregate Material Suppliers**
 - Change to reflect district staffing of Materials sections
- **Section 270.40 MTR TOC to Intro**
 - 270.01 Add “manufacturers” to certification, “prequalification” to pre-testing, delete sentence after bullet list, change “Verification testing” to “Pre-testing or prequalification”
 - 270.08 -MASH or NCHRP-350 Requirements. Additional information added at the end.
- **Section 270.10 MTR 205, 210**
 - Add “After remedial efforts” before obtain check tests
- **Section 270.10 MTR 212-1**
 - Add “ITD 914 with mill test report attached for steel/iron” for Buy America
- **Section 270.10 MTR 212-2**
 - Delete content of Gabion and Revet mattress items and refer to 512
- **Section 270.20 MTR 301, 302, 303**
 - Change AASHTO T 248 to R 76.
- **Section 270.20 MTR 304, 308**
 - Change AASHTO T 355 to T 310 Method A
- **Section 270.30 MTR 402**
 - Change AASHTO T 248 to R 76
- **Section 270.30 MTR 403/404**
 - Delete reference to Seal Coat because 403 is Warranty
 - Change AASHTO T 248 to R 76.
- **Section 270.30 MTR 405-1**
 - Add “or manufacturer certification” to ITD 966
 - Change AASHTO T 248 to R 76.

- **Section 270.30 MTR 4**
 - Add “Moisture” to IA of acceptance of loose mix
- **Section 270.30 MTR 405-6**
 - Change form ITD-832 to ITD 733
- **Section 270.30 MTR 405-7**
 - Delete “and graph chart obtained daily” from Verification Profiler.
- **Section 270.30 MTR 415**
 - Change AASHTO T 248 to R 76.
- **Section 270.40 MTR 409-1**
 - Change AASHTO T 26 to ASTM C1602
 - Change AASHTO T 248 to R 76.
 - Add “or ITD-1043” to ITD-901
- **Section 270.40 MTR 409-2**
 - Change Idaho IR-143 to AASHTO M 85 or AASHTO M 240
 - Change fly Ash to Secondary Cementitious Material (SCM)
- **Section 270.40 MTR 409-4**
 - Change Idaho IT-130 to FOP for AASHTO T359
 - Change AASHTO T 261 to Idaho IT-147.
- **Section 270.50 MTR 502-1**
 - Change AASHTO T 248 to R 76.
 - Add “or ITD-1043” to ITD-901
- **Section 270.50 MTR 502-2**
 - Change Idaho IR-143 to AASHTO M 85 or AASHTO M 240
 - Change fly Ash to Secondary Cementitious Material (SCM)
 - Delete AASHTO M 295 and Idaho IT-143
 - Change AASHTO M 148 to ASTM C309
- **Section 270.50 MTR 502-4**
 - Add Finish Concrete Item.
- **Section 270.50 MTR 503-1**
 - Change AASHTO M 284 to ASTM A775
- **Section 270.50 MTR 504-2**
 - Add “ITD 914 NO mill test reports”
- **Section 270.50 MTR 505**
 - Pile Point-add “and certification”, add “for steel/iron, add
 - Change fly Ash to Secondary Cementitious Material (SCM)
- **Section 270.50 MTR 510-1**
 - Change Smoothness to Finished Overlay and add Final Finish.
- **Section 270.50 MTR 512**
 - Add “Gabion” to Fill Material
 - Add “ITD 914 with mill test report attached for steel/iron” for Buy America
 - Add See QA Manual Section 230.03

- Add “After remedial efforts” before obtain check tests
- **Section 270.60 MTR 602, 603, 604, 605, 606, 607, 608**
 - Add “ITD 914 with mill test report attached for steel/iron” for Buy America
 - Add See QA Manual Section 230.03, 203.04
 - Change AASHTO T 248 to R 76.
- **Section 270.60 MTR 610**
 - Change Inspection to Certification, delete Visual Inspection, add “ITD 914 with mill test report attached for steel/iron” for Buy America, delete RE Letter-See QA Manual Section 250.00 for metal items
 - Delete note
- **Section 270.60 MTR 612-1**
 - Add item for steel post and blocks, other than wood; and bolts, nuts, washes, and fittings.
 - add “ITD 914 with mill test report attached for steel/iron” for Buy America
 - Add See QA Manual Section 230.03.
- **Section 270.60 MTR 612-2**
 - Delete Impact Attenuator item.
 - delete “ITD 914 with mill test report attached for steel/iron”
- **Section 270.60 MTR 615**
 - Add Metal Reinforcement item
- **Section 270.60 MTR 616**
 - Delete sign material: reflective removable cutouts, porcelain enamel, polyester powder coating
 - No mill tests required for hardware for signs
- **Section 270.60 MTR 618**
 - Add “or Certification for steel/iron” to metal items
 - add “ITD 914 with mill test report attached for steel/iron” for Buy America,
 - Add See QA Manual Section 230.03.
- **Section 270.60 MTR 619**
 - Add “or Certification for steel/iron” to metal items
 - add “ITD 914 with mill test report attached for steel/iron” for Buy America,
 - Add See QA Manual Section 230.03.
- **Section 270.60 MTR 622, 623**
 - add “ITD 914 with mill test report attached for steel/iron” for Buy America,
 - Add See QA Manual Section 230.03.
- **Section 270.60 MTR 624**
 - Delete “and hand” from loose placed rip rap item
- **Section 270.60 MTR 626**
 - Change title to Temporary Traffic Control
- **Section 270.60 MTR 627**
 - Delete form ITD-841 from Painting Wood item

- **Section 270.60 MTR 628**
 - Add “or Certification for steel/iron” to metal item
 - add “ITD 914 with mill test report attached for steel/iron” for Buy America,
 - Add See QA Manual Section 230.03.
- **Section 270.60 MTR 634**
 - Change Type I Support Foundation to “Support”
 - add “ITD 914 with mill test report attached for steel/iron” for Buy America,
 - Add See QA Manual Section 230.03.
- **Section 270.60 MTR 635**
 - Change AASHTO T 248 to R 76.
- **Section 270.60 MTR 656**
 - Add “or Certification for steel/iron” to metal item
 - add “ITD 914 with mill test report attached for steel/iron” for Buy America,
 - Add See QA Manual Section 230.03.
- **Section 270.60 MTR Miscellaneous Building Items**
 - Add Method B to AASHTO T 310.
- **Section 275.00**
 - No changes
- **Section 300.01**
 - #3- Replace “project testing” with “Acceptance Program sampling and testing for any project”
- **Section 310.00**
 - Add “personnel” to IA evaluation.
 - Delete “IA testing supplements the acceptance sampling and testing but is not used directly for acceptance of materials.” And replace with “IA testing is a procedure, personnel, and equipment check and is not part of the acceptance program.
 - Add “are being followed correctly by project personnel and that test equipment is providing results that” to second sentence of third paragraph.
- **Section 320.00**
 - No changes
- **Section 330.00**
 - Delete 330.03
- **Section 340.00**
 - No changes
- **Section 350.00**
 - No changes
- **Section 360.00**
 - No content changes
- **Section 370.00**
 - No changes
- **Section 380.00**

- No changes
- **Section 390.00**
 - No changes
- **Section 400.00**
 - Change title of Table 400.01.1
 - Delete Supply Service Contract
- **Section 410.00**
 - 410.02 Checking Test Reports and Documents. Add “for the test being checked” to STQP qualification for checking test results.
- **Section 420.00**
 - No content changes
- **Section 425.00**
- **Section 430.00**
 - No content changes
- **Section 440.00**
 - No changes
- **Section 450.00**
 - No changes
- **Section 460.00**
 - #2 Add “other construction projects”.
 - Add District Engineer to reflect change in district staffing of Materials sections
- **Section 470.00**
 - No content changes

SECTION 500.00 – STANDARD METHODS & PRACTICES IDAHO STANDARD PRACTICE (IR), IDAHO STANDARD METHOD OF TEST (IT)		Action
SECTION 510.00 -AGGREGATES		
IT-13-17	Measuring Mortar-Making Properties of Fine Aggregate	Format. Update reference documents, apparatus, format notes
IT-15-04	Idaho Degradation	Format. Update to approved 2004 version with dual units.
IT-72-17	Evaluating Cleanness of Cover Coat Material	Format. Changed AASHTO T 248 to R 76.
IT-74-98	Vibratory Spring-Load Compaction for Coarse Granular Material	No changes. New WSDOT-606 has errors they won't fix.
IT-116-13	Disintegration of Quarry Aggregates (Ethylene Glycol)	Update to 2013 version and reformat. Change M 92 to ASTM E11. Added balance to
IR-142-06	Investigation of Aggregate and Borrow Deposits	Update format and remove metric values. Change 270.13 to 300.13.
IT-144-08	Specific Gravity and Absorption of Fine Aggregate Using Automatic Vacuum Sealing (CoreLok) Method	Format. Delete AASHTO M 132 and replace with ASTM E1547. Change T 248 to R 76. Add T 255
SECTION 520.00 - BITUMINOUS MATERIALS		
IT-61-08	Sampling and Viscosity Testing Emulsified Asphalt Binders in the Field	Format. Add safety statement, fix notes numbering.
IR-63-13	Design of Seal Coats and Single Surface Treatments by the McLeod Method	No changes.
IT-99-17	Detection of Anti-Stripping Additive in Asphalt	Format. Change T 40 to R 66. Add one-minute soak.
IR-125-16	Acceptance Test Strip for Hot Mix Asphalt (HMA)	No content changes. Deleted duplicate text in 6.7 and 6.8.
IT-137-17	Effectiveness of Anti-Strip Agents After Hot Storage in Asphalt Binder Using Bottle and Sand	Format. Add reference for reagent water, fixed notes. Changed balance reference from Class D to Class G2
IT-146-16	Determination Of Reclaimed Asphalt Pavement (Rap) Aggregate Bulk (Dry) Specific Gravity (Gsb)	Change T 248 to R 76. Fixed section numbering.

SECTION 530.00 – CONCRETE		
IR-128-17	Sampling Concrete for Chloride Analysis	Format. Added Reference document section. Corrected numbering issue. Delete ITD-848 and replace with 404.
IT 130-02	Thickness of Plastic Concrete Pavement	Withdrawn. Replaced by FOP for AASHTO T 359.
IT-131-17	Total Chloride Content of Hardened Concrete by Gran Plot Method	Format. Fixed notes and equations. Fixed method title to reflect procedure.
IT-133-17	Determination of the Rate of Evaporation of Surface Moisture from Concrete	Format. Removed metric figures and references to metric values. Fixed notes.
IR-143-17	Field Sampling of Hydraulic Cement and Fly Ash	Format. Changed procedure for sampling.
IT-145	Lithium Dosage Determination Using Accelerated Mortar Bar Testing	Withdrawn Replaced by CRD C 662
IT-147-17	Measuring Texture Depth of Portland Cement Concrete Using a Tire Tread Depth gauge	AASHTO T 261 withdrawn. New Method replaces T 261
SECTION 540.00 - PAINT		
IR-7-04	Inspecting/Sampling Paint and Curing Compound	Format updated. Removed numbers in parenthesis.
IT-121-98	Determining Total Solids-Latex Percent	Format. Corrected spelling, Removed numbers in parenthesis.
SECTION 550.00 - SOILS		
IT-8-17	Resistance R-Value and Expansion Pressure of Compacted Soils and Aggregates	Updated format. Changed "Appendix to "Annex". Removed reference to deleted forms.
IR-62-17	Taking Undisturbed Soil Samples for Laboratory Consolidation, Shear and Permeability Tests	Format. Removed references to metric values and form Idaho T 95.
SECTION 560.00 - MISCELLANEOUS		
IR-12-17	Calibrating Torque-Wrenches, Tightening and Testing Bolt Tensions	Format. Deleted T 67 that is withdrawn and used ASTM E4.
IR-17-98	Calibrating the Skidmore-Wilhelm Torque-Wrench Calibration Unit	Update format.
IR-87-17	Pavement Straightedge Procedures	Format. Corrected spelling. Removed metric values.
IT-120-17	Determining Volume of Liquids in Horizontal or Vertical Storage Tanks	Format. Remove metric references and tables.
IR-140-07	Operation of the California Profilograph and Evaluation of Profiles	Withdrawn. Replaced with AASHTO R 57

Check Highlighted TEST Methods for Modifications at the end of the Method

SECTION 570.00 – WAQTC / IDAHO FIELD OPERATING PROCEDURES

SECTION 570.01 - AGGREGATE			ACTION
1.	AASHTO T 2 (16)	Sampling of Aggregates	Change minimum to at least, prior to before. Method A Loader Sample, Method B stockpile face sample, Method C Tube sample
2.	AASHTO R 76 (16)	Reducing Samples of Aggregates to Testing Size	Change T 248 to R 76
3.	AASHTO T 255 (16)	Total Evaporable Moisture Content of Aggregate by Drying	None
4.	AASHTO T 27 (16) & AASHTO T 11 (16)	Sieve Analysis of Fine and Coarse Aggregates & Materials Finer Than 75 µm (No. 200) Sieve in Mineral Aggregates by Washing	Change T 248 to r 76. Changes to Procedure Method A, B, and C.
5.	AASHTO T 335 (16)	Determining the Percentage of Fracture in Coarse Aggregate	Change T 248 to R 76
6.	AASHTO T 176 (16)	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	Change T 248 to R 76
SECTION 570.02 – ASPHALT I			New title is "Asphalt I" for all methods
1.	AASHTO T 168 (10)	Sampling Bituminous Paving Mixtures	No changes
2.	AASHTO R 47 (12)	Reducing Samples of Hot Mix Asphalt (HMA) to Testing Size	Mechanical Splitter Method type A & B
3.	AASHTO T 329 (16)	Moisture Content of Hot Mix Asphalt (HMA) by Oven Method	In "Procedure" Change "mixing temperature" to "mixing temperature range".
4.	AASHTO T 308 (16)	Determining the Asphalt Binder Content of Hot Mix Asphalt (HMA) by the Ignition Method	Change 578±5°C (1072±9°F) to 538±5°C (1000±9°F); 538°C (1000°F) to 538±5°C (1000±9°F); 482±5°C (900±8°F) to 482±5°C (900±9°F); Change T 40 to R 66
5.	AASHTO T 30 (16)	Mechanical Analysis of Extracted Aggregate	Calculation section now # 14-18
6.	AASHTO T 209 (16)	Theoretical Maximum Specific Gravity and Density of Hot Mix Asphalt Paving Mixtures	Thermometers: Change 0.5°C (0.9°F) to 0.5°C (1°F); "container" from "container including cover"; General: add language to step #11.
7.	AASHTO T 166 (16)	Bulk Specific Gravity of Compacted Hot Mix Asphalt using Saturated Surface-Dry Specimens	Change Terminology: Constant Mass. Add steps to Method A, B, & C. Constant mass calculation.

8.	AASHTO R 66 (16)	Sampling Asphalt Materials	No changes
9.	AASHTO T 312 (16)	Asphalt Mixture Specimens by Means of the Superpave Gyrotory Compactor	Equipment Preparation: add "range" to compaction"; Temperature: add "maximum"; the "material is within the"; change "is reached" to "range"; compaction procedure add "minimum".
10.	WAQTC TM 13 (13)	Volumetric Properties of Hot Mix Asphalt	Rounding changes
11.	AASHTO R 67 (15)	Sampling Hot Mix Asphalt (HMA) After Compaction (Obtaining Cores) <i>SEE AASHTO TEST MANUALS</i>	No changes
SECTION 570.03 – CONCRETE			
1.	WAQTC TM 2 (14)	Sampling Freshly Mixed Concrete	No Changes
2.	AASHTO T 309 (15)	Temperature of Freshly Mixed Portland Cement Concrete	No Changes
3.	AASHTO T 119 (16)	Slump of Hydraulic Cement Concrete	Change "removed" to "wet sieved"; Change "mold shall be" to "frustum of a cone"; change "cone" to "mold" in document
4.	AASHTO T 121 (16)	Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete	Add note to Table 1 and re-mark existing footnotes; add Self consolidating concrete section.
5.	AASHTO T 152 (16)	Air Content of Freshly Mixed Concrete by the Pressure Method	Delete 2 nd sentence of 2 nd paragraph of Scope; Add SCC section.
6.	AASHTO T 23 (15)	Method of Making and Curing Concrete Test Specimens in the Field	Changes to Procedure-Transporting Specimens;
SECTION 570.04 – EMBANKMENT AND BASE			
1.	AASHTO T 255 (16)	Total Evaporable Moisture Content of Aggregate by Drying &	No changes
	AASHTO T 265 (16)	Laboratory Determination of Moisture Content of Soils	
2.	AASHTO T 99 (15)	Moisture-Density Relations of Soils Using a 2.5-kg (5.5-lb) Rammer and 305-mm (12-in.) Drop &	Procedure: 1. Change 0.005kg (0.01lb.) to 1 g (0.005 lb.) Annex: change "adjusted to "corrected".
	AASHTO T 180 (15)	Moisture-Density Relations of Soils Using a 4.54-kg (10-lb) Rammer and 457-mm (18-in.) Drop	
3.	AASHTO R 75 (16)	Developing a Family of Curves	Change from T 272 to R 75; significant changes. Add "Terminology section; 9 steps added to "Procedure.
4.	AASHTO T 85 (16)	Specific Gravity and Absorption of Coarse Aggregate	Change T 248 to R 76
SECTION 570.05 – IN-PLACE DENSITY			

1.	AASHTO T 355 (16)	In-Place Density of Hot Mix Asphalt using the Nuclear Moisture-Density Gauge.	Procedure :2. Add “perpendicular to the roller passes”; Example: add calculation for Maximum Laboratory dry Density; Format Appendix; Performance Checklist correct Method name
2.	AASHTO T 310 (13)	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	Add example for calculation of percent compaction; Performance Checklist: add #10 Method A.
3.	AASHTO T 255 (16) AASHTO T 265 (16)	Total Evaporable Moisture Content of Aggregate by Drying & Laboratory Determination of Moisture Content of Soils	No changes
4.	AASHTO T 272 (16)	One-Point Method for Determining Maximum Dry Density and Optimum Moisture	No changes
5.	FOP CURVES(16)	Use of AKDOT & PF ATM-212, ITD T-74, WSDOT TM 606, or WFLHD Humphreys Curves	No changes