

**MANUAL FOR FREQUENCY OF
SAMPLING AND TESTING
AND
BASIS FOR USE OF MATERIALS**



**INDIANA DEPARTMENT OF TRANSPORTATION
DIVISION OF MATERIALS AND TESTS**

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MANUAL FOR FREQUENCY OF SAMPLING AND TESTING AND BASIS FOR USE OF MATERIALS

GENERAL

The Department Standard Specifications, Section 106.02, states that the minimum required number of samples and tests will be as set out in the Frequency Manual. This edition of the Frequency Manual was prepared to make the frequency of sampling and testing conform to the requirements of the 23 Code of Federal Regulations (CFR) 637 Subpart B.

The schedules and instructions supersede all those previously issued and are effective upon receipt for all new contracts, and for all uncompleted work on existing contracts, unless there is a conflict with Special Provisions or Specifications.

The Frequency Manual is a tabulation of various items of materials and tests normally used in the construction and maintenance of highways and bridges. The manual specifies the minimum schedule necessary to satisfy the requirements for acceptance samples and tests for each item. The location (i.e. job site, source, mixing plant etc.) from which samples are to be taken or tests conducted is also specified for each item. The Department requires that samples be taken or tests conducted at these specified locations; however, occasional situations may occur that do not permit this procedure. When these occasions occur, the District Testing Engineer is required to determine if an alternate location is desirable. Samples are required to be taken and tests conducted as soon as possible after the material becomes available. Each sample is required to represent no more than the quantities listed by the Job Control Frequency of this manual. The frequency of samples or tests applies to quantities shown or fractions thereof. All sampling and testing must be performed by qualified personnel representing both INDOT and the Contractors responsible for quality materials in accordance with requirements herein. Construction activities related to Stormwater Control, Welding, Traffic Signal Work, Traffic Control, Internal Profiling, Guardrail and Retro-Reflectivity require the Contactors in responsible charge be Certified as shown in the Standard Specifications. Quality Control Plans related to these activities and all others shown in ITM 803 shall be submitted to the PE/PS 15 days prior to starting construction.

Many of the items listed allow small quantities of the material to be accepted without samples or tests. When this procedure is permitted, the quantities are specified as approximate amounts.

The frequencies herein are the minimum required. The PE/PS always has the right and responsibility to have a questionable product re-tested.

COLUMN FORMAT EXPLANATION

Specification Reference

The Department Standard Specification references are provided as a convenience for research of additional material requirements.

Item

The current edition of the Department Standard of Specifications will govern over any material listed in this manual. All items listed in the Standard Specifications, which require acceptance samples and tests, are listed. Items either added to or deleted from the previous manual reflect changes in the Standard Specifications. Instructions in parentheses provide additional information or explanation.

Job Control Location, Job Control Notes, Job Control Frequency, and Acceptance Templates

The Job Control Location, Job Control Notes, and Job Control Frequency address the location and frequency for all sampling and testing for approval for incorporation of material into the contract. Sampling and testing is conducted by Qualified Technicians; however, out-of-state consulting firms and other State DOT's also conduct sampling duties for the Department. The person responsible for acceptance samples and tests is not specified in this manual. Any material received at the job-site that has not been approved is required to be sampled, tested, and approved prior to use. Materials for temporary use in the contract must meet contract specifications, but do not require acceptance documentation beyond or in addition to visual inspection, unless otherwise noted in this manual. Questionable materials that have been approved should be resampled and tested for verification. Also, material accepted by visual inspection is required to be checked upon installation into the contract.

Terms used in these columns are explained as follows:

- A. No Sample ID Required (Visual examination, dimensional check, where applicable, and a knowledge of past performance) -- this type of approval is given by the PE/PS on the basis of their own knowledge of the source of material or advice by other Department personnel. Sources will be considered acceptable provided the materials and supplies are the required quality.
- B. Approval on the basis of certification -- for approval by certification, no test sample is required
- C. Verification sampling -- this is a sample taken at random intervals for confirmation of quality and conformance
- D. Approval Number -- a letter followed by a six-digit number that indicates the material has been tested and at a given period in time was approved for use
- E. Approved Lot or Batch Number -- For materials that are pre-tested and stocked by material sources, the PE/PS is required to check the Office of Materials Management Pre-Approved Materials List for material, lot or batch number, and quantity delivered. If the material has been pre-tested and approved, the material is allowed for immediate use. The approval number will be entered into SiteManager.
- F. SiteManager & AWP Sample ID Number -- A laboratory testing report twelve-digit sequence number which will govern over all other basis of approval
- G. Type A, B, C, D, or Other Certifications -- When required, the PE/PS will have these documents before the material may be incorporated into the contract. The Certifications

are required to be in accordance with the Standard Specifications, Section 916. Type A Certifications are to be scanned into SiteManager and attached to the Sample Record. The original certification will be placed in the project files. Type B, C, D, and mill Certifications, external documents, and other Certifications will also be placed in the project files.

- H. Attach Buy America certification(s) in SM & AWP -- (Acceptance Template SM1004 & AV1004) has been added to several items in this update. While every effort was made to identify all items that require a Buy America certification, it is possible that some have been missed. If the Buy America certification is missing from an item that meets the *Standard Specification* definition (106.01(c)) for requiring it, then Buy America automatically becomes a requirement.
- I. Attach Build America certification **or** Final Assembly Manufactured Build America certification(s) in SM & AWP -- (Acceptance Template SM1005 & AV1005) has been added to several items in this update. While every effort was made to identify all items that require a Build America certification, it is possible that some have been missed. If the Build America certification is missing from an item that meets the *Construction Memo* definition (22-09) for requiring it, then Build America automatically becomes a requirement.

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| REF | SUB REF. | SPEC. REF. | ITEM | JOB CONTROL LOCATION | JOB CONTROL NOTES | JOB CONTROL FREQUENCY | SM ACCEPTANCE TEMPLATES | AWP ACCEPTANCE TEMPLATES |
|-----|----------|---|--|----------------------|---|--|---|---|
| 1 | 01 of 06 | 902.01a ITM 581 ITM 583 | ASPHALT MATERIALS | HMA PLANT | PAVING GRADES. Two verification samples per year per certified plant per grade. | Certification - Type A shall be maintained at the certified plant per ITM 583. Approval Number (Performance-Graded Asphalt Binder) | No Sample ID Required (for Type A Cert) SM9015 (Verification by INDOT Testing) SM9004 | No Sample ID Required (for Type A Cert) SM9015 (Verification by INDOT Testing) AV9004 |
| 1 | 02 of 06 | 902.01a 408.06 406.02 | ASPHALT MATERIALS | JOBSITE | ASPHALT BINDER (PG58S-28, 58H-28, 58E-28, Polymer Modified Asphalt Binder). Used to fill cracks in existing asphalt pavement, or used as tack coat | Certification-Type A Approval Number (Performance-Graded Asphalt Binder Supplier) | SM9003 SM9004 | AV9003 AV9004 |
| 1 | 03 of 06 | 902.01(b) | ASPHALT MATERIALS | POINT OF DELIVERY | NON-PAVING GRADES ASHALT EMULSIONS. Shall be from a supplier listed on the QPL of Asphalt Emulsion Suppliers. AE-90, AE-90S, AE-NT, AE-F, AE-150, AE-PL, Warranted Micro-Surfacing, Ultrathin Bonded Wearing Course, Recycling, and RPE | Certification-Type C Approval Number (Asphalt Emulsion Supplier) | SM9003 SM9004 | AV9003 AV9004 |
| 1 | 04 of 06 | 902.01(d) | ASPHALT MATERIALS | POINT OF DELIVERY | UTILITY ASPHALT. | Certification - Type A Material is required to be sampled and tested by supplier every 14 days in storage and every 14 days after delivery of material. | SM9003 | AV9003 |
| 1 | 05 of 06 | 902.01 (e) | ASPHALT MATERIALS | POINT OF DELIVERY | ASPHALT FOR COATING CORRUGATED METAL PIPE. Verification sample from the tank used in production after replenishment and every 30 days thereafter | Certification - Type A | SM9003 | AV9003 |
| 1 | 06 of 06 | 401 902.01(a) 401-R-750 410 | ASPHALT BINDER | JOBSITE | VOID REDUCING ASPHALT MEMBRANE. VRAM. Used under finished HMA surface joint to prevent water intrusion. | Certification - Type A Approval Number (Performance-Graded Asphalt Binder) | SM9003 SM9004 | AV9003 AV9004 |
| 2 | 01 of 11 | 401.05 ITM 802 401.07 401.09 401.14 | QC/QA-HMA | JOBSITE | Schedule to apply to each type of mixture. | Binder Content Bulk Specific Gravity Maximum Specific Gravity Gradation 1 / 1000 tons of base or intermediate 1 / 600 tons of surface 1 each per subplot when > 100 tons, include material ≤ 100 tons in the previous subplot The first 300 tons of the first subplot of the first lot will not be tested. Temperature: Visual Inspection | IT586 or IT571 T 166 or T 331 T 209 T 30 | ITM 586 or ITM 571 T 166 or T 331 T 209 T 30 |
| 2 | 02 of 11 | 401.05 402.15 401.09 402.13 401.14 | - QC/QA-HMA Non QC/QA HMA | JOBSITE | Schedule to apply to each type of mixture. | Certification-Type D for Total Contract Item amount of < 300 tons, per CLN Temperature: Visual Inspection Density: Visual Inspection | SM9003 | AV9003 |

| REF | SUB REF. | SPEC. REF. | ITEM | JOB CONTROL LOCATION | JOB CONTROL NOTES | JOB CONTROL FREQUENCY | SM ACCEPTANCE TEMPLATES | AWP ACCEPTANCE TEMPLATES |
|-----|----------|---|--------------------------------------|----------------------|--|--|---|---|
| 2 | 03 of 11 | 410.05 410.07 410.14 IT 802 410.09 | SMA | JOBSITE | Schedule to apply to surface course only. 1 / 1000 tons of base or intermediate 1 / 600 tons of surface 1 each per subplot when > 100 tons, include material ≤ 100 tons in the previous subplot The first 300 tons of the first subplot of the first lot will not be tested. Temperature: Visual Inspection | Binder Content Gradation 1 / 1000 tons of base or intermediate 1 / 600 tons of surface 1 each per subplot when > 100 tons, include material ≤ 100 tons in the previous subplot The first 300 tons of the first subplot of the first lot will not be tested. Temperature: Visual Inspection | IT586 or IT571 T 30 | ITM 586 or ITM 571 T 30 |
| 2 | 04 of 11 | 401.05 402.04 | QC/QA-HMA | PLANT, SOURCE | DOLOMITE. One verification sample per year per plant where Dolomite is used. | One verification sample per year per plant where Dolomite is used. | IT205 | ITM 205 |
| 2 | 05 of 11 | ITM 583 | HMA | MIXING PLANT | PLANT PRODUCTION PER DMF. Schedule to apply to each type of mixture after the first 250 ton of mix for the season is produced. | For Base and Intermediate a minimum of one sample for 1st 250 ton and a minimum of one sample for each 1000 ton thereafter. For Surface a minimum of one sample for 1st 250 ton and a minimum of one sample for each 600 ton thereafter. Frequency per Producer QCP. | No Sample ID Required for Contractor Acceptance | No Sample ID Required for Contractor Acceptance |
| 2 | 06 of 11 | 402.04 402.07 402.09 ITM 583 402.13 402.15 | HMA Temp. Included | JOBSITE | FOR CONTRACT PER DMF. Contractor Acceptance Testing per ITM 583. A certification reflecting the test results from the latest producer sample shall be provided with the 1st delivery per contract per DMF per day. | Certification-Type D. For Base and Intermediate: Minimum one certification for each 1000 tons. For Surface: Minimum one certification for each 600 tons. Temperature: Visual Inspection Density: Visual Inspection | SM9003 | AV9003 |
| 2 | 07 of 11 | 307 308 | FULL DEPTH RECLAMATION | JOBSITE | FDR Cement FDR Asphalt Emulsion | Certification - Type D (1 Per Day of Production in accordance with ITM 804). Approval Number (For Cement) | SM 9003 SM9004 | AV9003 AV9004 |
| 2 | 08 of 11 | 416 | COLD RECYCLING | JOBSITE | Cold-In-Place Recycling, CIR | Certification - Type D Other (1 Per Day of Production in accordance with ITM 804). | SM 9003 | AV9003 |
| 2 | 09 of 11 | 417 | COLD RECYCLING | JOBSITE | Cold Central Plant Recycling, CCPR | Certification - Type D Other (1 Per Day of Production in accordance with ITM 804). | SM 9003 | AV9003 |
| 2 | 10 of 11 | 306.04 306.05 306.07 | ROADWAY MILLING | JOBSITE | Scarification Profile/Cross-Slope Specified Depth | Macrotexture, 1 per day minimum (Testing by contractor in accordance with ITM 812) | No Sample ID Required | No Sample ID Required |
| 2 | 11 of 11 | 401.18(a) and ITM 917, Sec 8.0. | INERTIAL PROFILER, HMA | JOBSITE | For Contracts which include the Inertial Profiler, HMA pay item. The inertial profiler shall be verified on each contract before use (A Checklist from another Department contract signed by the Engineer within the previous two weeks will also be considered acceptable documentation). | Inertial Profiler Verification (Machine Certification ID & Machine Operator). Longitudinal Smoothness Acceptance when Design speed > 45 mph & the traveled way or ramp slope is constant and ≥ .5 miles | IT917 | ITM 917 |
| 3 | 01 of 02 | 401.16 410.16 | QC/QA-HMA and SMA (DENSITY-MAINLINE) | JOBSITE | For each type of mixture. | Two cores required for each subplot of mainline mixture. | T 166 | T 166 |
| 3 | 02 of 02 | 401.16 | QC/QA-HMA (DENSITY-SHOULDERS) | JOBSITE | For each type of mixture except for the first 385 lb/sys over existing shoulders. | Two cores required for each subplot of shoulder mixture. | T 166 | T 166 |

| REF | SUB REF. | SPEC. REF. | ITEM | JOB CONTROL LOCATION | JOB CONTROL NOTES | JOB CONTROL FREQUENCY | SM ACCEPTANCE TEMPLATES | AWP ACCEPTANCE TEMPLATES |
|-----|----------|--|--|---------------------------|---|---|--|---|
| 4 | 01 of 06 | 915.01 915.02 910.21 701.04 (a) | STEEL PILES | JOB SITE | UNCOATED STEEL H PILES, STEEL ENCASED CONCRETE PILES AND STEEL SHEET PILES. | External Document-Mill Certification Buy America Certification Approved Pile Driving Hammer Letter | SM1002 SM1004 (attach Buy America certification(s) in SM) SM9003 | AV9003 AV1004 (attach Buy America certification(s) in AWP) AV9003 |
| 4 | 02 of 06 | 915.01 915.02 910.21 701.04 (a) | STEEL PILES | JOB SITE | EPOXY COATED STEEL H PILES AND STEEL ENCASED CONCRETE PILES. | External Document-Mill Certification Certification (epoxy coating)-Type C Approval Number (epoxy coating) Buy America Certification Approved Pile Driving Hammer Letter | SM1002 SM9003 SM9004 SM1004 (attach Buy America certification(s) in SM) SM9003 | AV9003 AV9003 AV9004 AV1004 (attach Buy America certification(s) in AWP) AV9003 |
| 4 | 03 of 06 | 915.03 | STEEL PILES | JOB SITE | SHOES. For H Pile. | Certification-Type C Buy America Certification | SM9003 SM1004 (attach Buy America certification(s) in SM) | AV9003 AV1004 (attach Buy America certification(s) in AWP) |
| 4 | 04 of 06 | 915.01(a)2 | STEEL PILES | JOB SITE | CONICAL TIPS. For Steel Pipe Piles. | Certification-Type C Buy America Certification | SM9003 SM1004 (attach Buy America certification(s) in SM) | AV9003 AV1004 (attach Buy America certification(s) in AWP) |
| 4 | 05 of 06 | 910.21 | STEEL PILES Temp. Included | JOB SITE | STEEL SHEET PILES. | Visually inspect for suitability of use. Buy America Certification | No Sample ID required. SM1004 (attach Buy America certification(s) in SM) | No Sample ID required. AV1004 (attach Buy America certification(s) in AWP) |
| 4 | 06 of 06 | 701.11 | H-PILE SPLICER COMMERCIAL | JOB SITE | UNCOATED STEEL H PILE SPLICERS. | External Document-Mill Certification Buy America Certification | SM1002 SM1004 (attach Buy America certification(s) in SM) | AV9003 AV1004 (attach Buy America certification(s) in AWP) |
| 5 | 01 of 01 | 911.01e | WOODEN PILES Temp. Included | ANY LOCATION PRIOR TO USE | UNTREATED. | Visually inspect each piece for species, straightness and quality. Build America Certification Construction Product (Non-Temp. Materials) | No Sample ID required. SM1005 (attach Build America certification(s) in SM) | No Sample ID required. AV1005 (attach Build America certification(s) in AWP) |
| 6 | 01 of 01 | 915.04 | ELASTOMERIC or PTFE BEARING ASSEMBLY PADS (BR) | ANY LOCATION PRIOR TO USE | Allow 30 days for testing. | Certification-Type B One sample (one pad) of each type, for each lot. When shapes A and B of any type are required, only shape A shall be furnished for testing. External Document-Mill Certification External Document-Galvanizing Certification Buy America Certification (for steel) Build America Certification Construction Product (for elastomer) | SM9003 SM1002 SM1002 SM1004 (attach Buy America certification(s) in SM) SM1005 (attach Build America certification(s) in SM) | AV9003 Sample ID Number (from M&T) AV9003 AV9003 AV1004 (attach Buy America certification(s) in AWP) AV1005 (attach Build America certification(s) in AWP) |
| 7 | 01 of 03 | 906.07a | BRIDGE EXPANSION JOINTS | JOB SITE | Type SS. Inspect for dimensions and workmanship. | Certification for Elastomer-Type B Certification for Str. Steel and Sealant-Type C Buy America Certification Build America Certification Construction Product | SM9003 SM9003 SM1004 (attach Buy America certification(s) in SM) SM1005 (attach Build America certification(s) in SM) | AV9003 AV9003 AV1004 (attach Buy America certification(s) in AWP) AV1005 (attach Build America certification(s) in AWP) |
| 7 | 02 of 03 | 906.07b | BRIDGE EXPANSION JOINTS | JOB SITE | Type M. Inspect for dimensions and workmanship. | Certification for Elastomer-Type B Certification for Str. Steel and Sealant-Type C Buy America Certification for Structural Steel Build America Certification Construction Product | SM9003 SM9003 SM1004 (attach Buy America certification(s) in SM) SM1005 (attach Build America certification(s) in SM) | AV9003 AV9003 AV1004 (attach Buy America certification(s) in AWP) AV1005 (attach Build America certification(s) in AWP) |

| REF | SUB REF. | SPEC. REF. | ITEM | JOB CONTROL LOCATION | JOB CONTROL NOTES | JOB CONTROL FREQUENCY | SM ACCEPTANCE TEMPLATES | AWP ACCEPTANCE TEMPLATES |
|-----|---------------|---------------------|-----------------------------------|----------------------|--|---|--|---|
| 7 | 03 of 03 | 906.07c | BRIDGE EXPANSION JOINTS | JOBSITE | Type PCF (Pre-Compressed Foam Joint). For Bridge Joints, Terminal Joint, Type PCCP, etc. | Approval Number Build America Certification Construction Product | SM9004 SM1005 (attach Build America certification(s) in SM) | AV9004 AV1005 (attach Build America certification(s) in AWP) |
| 8 | 01 of 02 | 904 | AGGREGATES | CAPP SOURCE | USED IN CONCRETE AND HMA PLANTS. All aggregates, except those used for precast concrete units, fine aggregates used for snow and ice abrasive, or lightweight aggregates per 904.08. | Approval Number Approved CAPP Source | IT211 | AV9004 |
| 8 | 02 of 02 | 904.08 | LIGHTWEIGHT AGGREGATES | JOBSITE | Expanded Shale or Foamed Glass Aggregate | Approval Number | SM9004 | AV9004 |
| 9 | 01 of 02 | 901.01 | CEMENT | BATCH PLANT | One 10 lb random verification sample required as directed by Directive 401. | Approval Number | SM9004 | AV9004 |
| 9 | 02 of 02 | 901.02 | FLY ASH | BATCH PLANT | One 5 lb random verification sample required as directed by Directive 401. | Approval Number | SM9004 | AV9004 |
| 10 | 01 of 01 | 901.08 710.02 | PACKAGED PATCHING PRODUCTS | JOBSITE | PACKAGED PATCHING PRODUCTS (Products for Substructure or Vertical Overhead (VOH) Repairs, etc) | Approval Number - W# (6 digit) | SM9004 | AV9004 |
| 12 | 01 of 02 | 912.03 | CONCRETE ADMIXTURE | BATCH PLANT | TYPE A, B, C, D, E, F, G, and AIR ENTRAINMENT | Approval Number | SM9004 | AV9004 |
| 12 | 02 of 02 | 912.04 | CONCRETE ADMIXTURE | BATCH PLANT | LATEX MODIFIER | Approval Number and Certification - Type B | SM9004 SM9003 | AV9004 AV9003 |
| 13 | 01 of 03 | 912.01(e) | CONCRETE CURING MATERIALS | JOBSITE | LIQUID MEMBRANE FORMING CURING COMPOUNDS. | Approval Number (W-Number) Build America Certification Construction Product | SM9004 SM1005 (attach Build America certification(s) in SM) | AV9004 AV1005 (attach Build America certification(s) in AWP) |
| 13 | 02 of 03 | 912.01(e) | CONCRETE CURING MATERIALS | MANUFACTURER | LIQUID MEMBRANE FORMING CURING COMPOUNDS. | Annual recertification letter to the Department by January 1 of each year. The manufacturer shall also submit a type A certification for a single batch every four months to Div. M&T. | No Sample ID Required. | No Sample ID Required. |
| 13 | 03 of 03 | 912.01(e)2 | CONCRETE CURING MATERIALS | JOBSITE | LIQUID MEMBRANE FORMING CURING COMPOUNDS. Resin-Based, White Pigmented (PAMS) Only. Sample will be obtained at sprayer nozzle to obtain one 1 gal sample. | > 1000 gal, test results (from M&T) Sample once per source per contract which use > 1000 gal or as requested. Build America Certification Construction Product | Templates per Division of M&T. SM1005 (attach Build America certification(s) in SM) | Templates per Division of M&T. AV1005 (attach Build America certification(s) in AWP) |
| 14 | 01 of 02 | 702.23 918.06 | CONCRETE WATER PROOFING MATERIALS | JOBSITE | Treated cotton fabric, woven glass fabric and glass fiber material. | Certification-Type C | SM9003 | AV9003 |
| 14 | 02 of 02 | 702.23 902.01(d) | CONCRETE WATER PROOFING MATERIALS | JOBSITE | Asphalt for waterproofing. | Certification-Type A | SM9003 | AV9003 |
| 15 | 1 of 28 27 | 501.05 | CONCRETE | JOBSITE | PAVEMENT-QC/QA-PCCP (Acceptance). Approved CMD Required. | Unit weight 1/2400 syd Air Content 1/2400 syd W/C Ratio 1/14,400 syd Full Sublot will be considered greater than 480 syds Sublots of 480 syds or less will be included in the previous sublot | T 121QC T 152QC IT403Q | T 121 T 152 ITM 403 |

| REF | SUB REF. | SPEC. REF. | ITEM | JOB CONTROL LOCATION | JOB CONTROL NOTES | JOB CONTROL FREQUENCY | SM ACCEPTANCE TEMPLATES | AWP ACCEPTANCE TEMPLATES |
|-----|-------------|----------------------|----------|----------------------|--|--|---|---|
| 15 | 2 of 28 27 | 501.05 | CONCRETE | JOBSITE | PAVEMENT-QC/QA-PCCP (Acceptance). Approved CMD Required. | Thickness: two cores (4" diameter) per 2400 syd | IT404Q | ITM 404 |
| 15 | 3 of 28 27 | 501.05 | CONCRETE | JOBSITE | PAVEMENT-QC/QA-PCCP (Acceptance). Approved CMD Required. | Flexural: two beams per 2400 syd | T 97Q | T 97Q |
| 15 | 4 of 28 27 | 501.23 | CONCRETE | JOBSITE | PAVEMENT-QC/QA-PCCP (Opening to Traffic). Test beams for flexural strength shall be obtained at the end of each day's production. | Age requirement or Strength by maturity method or Flexural Strength | T 325 T 97Q | T 325 T 97Q |
| 15 | 5 of 28 27 | 502.04 | CONCRETE | JOBSITE | PAVEMENT-PCCP (NON QC/QA) (Acceptance). Approved CMD Required (Includes Driveways). | Yield 1/2400 syd Air Content 1/1200 syd Slump 1/1200 syd | T 121 T 152 T 119 | T 121 T 152 T 119 |
| 15 | 6 of 28 27 | 502.21 | CONCRETE | JOBSITE | PAVEMENT-PCCP (NON QC/QA) (Acceptance). Approved CMD Required. Cores not required for JRCP, moment slab, sidewalks, nor driveways. | Thickness: one core (4" diameter) per 1200 syd per CLN (minimum 4 cores per section, and minimum of 1 core per subsection). For <1200 syd, no sampling required. | IT404 No Sample ID required. | ITM 404 No Sample ID required. |
| 15 | 7 of 28 27 | 502.18 605 610 | CONCRETE | JOBSITE | PAVEMENT-PCCP (NON QC/QA) (Opening to Traffic & Acceptance). Test beams shall be obtained at the end of each day's production. Curbs, Approaches and Cross-Overs | Age requirement or Flexural Strength | T 97Q | T 97Q |
| 15 | 8 of 28 27 | 702 | CONCRETE | JOBSITE | SUPERSTRUCTURE (Acceptance). | Yield 1/100 cyd Air Content 1/50 cyd Slump 1/100 cyd W/C Ratio 1/400 cyd | T 121 T 152 T 119 IT403 | T 121 T 152 T 119 ITM 403 |
| 15 | 9 of 28 27 | 609 | CONCRETE | JOBSITE | BRIDGE APPROACHES (Acceptance). | Yield 1/100 cyd Air Content 1/50 cyd Slump 1/100 cyd | T 121 T 152 T 119 | T 121 T 152 T 119 |
| 15 | 10 of 28 27 | 609.12 | CONCRETE | JOBSITE | BRIDGE APPROACHES (Opening to Traffic & Acceptance). Test beams shall be obtained at the end of each day's production. | Age requirement or Flexural Strength | T 97Q. | T 97Q |
| 15 | 11 of 28 27 | 702 | CONCRETE | JOBSITE | STRUCTURES (Acceptance). Bridge substructures, wingwalls, drainage boxes, and railing. | Yield 1/50 cyd Air Content 1/50 cyd Slump 1/100 cyd Visual (For PLN quantity \leq 20 cyd) | T 121 T 152 T 119 No Sample ID required. | T 121 T 152 T 119 No Sample ID required. |
| 15 | 12 of 28 27 | 702.13g | CONCRETE | JOBSITE | STRUCTURES (Form removal). Test beams shall be obtained at the end of each day's production. | Age requirement or Flexural Strength and/or Compressive Cylinders | No Sample ID required. T 97Q T 22 | No Sample ID required. T 97Q T 22 |

| REF | SUB REF. | SPEC. REF. | ITEM | JOB CONTROL LOCATION | JOB CONTROL NOTES | JOB CONTROL FREQUENCY | SM ACCEPTANCE TEMPLATES | AWP ACCEPTANCE TEMPLATES |
|-----|-------------------|--------------------------|----------|----------------------|---|---|---|---|
| 15 | 13 of 28 27 | 702.24 805.13 | CONCRETE | JOB SITE | STRUCTURES (Load Application). Test beams (and/or cylinders if required by contract) shall be obtained at the end of each day's production. Traffic Foundation Items, Anchors, Pole Foundations | Age requirement or Flexural Strength and/or Compressive Cylinders | No Sample ID required. T 97Q T 22 | No Sample ID required. T 97Q T 22 |
| 15 | 14 of 28 27 | 702.24 | CONCRETE | JOB SITE | STRUCTURES (Opening to Traffic or Form Removal or Load Application) | Flexural Strength Compressive Cylinders | No Sample ID required. T 97Q T 22 | No Sample ID required. T 97Q T 22 |
| 15 | 15 of 28 27 | 502 702 605 610 | CONCRETE | JOB SITE | MISCELLANEOUS (Acceptance). Curb, Curb Ramps, Sidewalk, Traffic Items, Slopewalls, Anchors, Monuments, Pole Foundations, etc. | Yield 1/100 cyd Air Content 1/50 cyd Slump 1/100 cyd Visual (For PLN quantity ≤ 40 cyd) | T 121 T 152 T 119 No Sample ID required. | T 121 T 152 T 119 No Sample ID required. |
| 15 | 16 of 28 27 | 602 RSP 620-R-483 | CONCRETE | JOB SITE | MISCELLANEOUS (Acceptance). Concrete Barrier Walls and Sound Wall Foundations. | Yield 1/200 cyd Air Content 1/200 cyd Visual (For PLN quantity ≤ 40 cyd) | T 121 T 152 No Sample ID required. | T 121 T 152 No Sample ID required. |
| 15 | 17 of 28 27 | 722 | CONCRETE | JOB SITE | BRIDGE DECK OVERLAY. LATEX-MODIFIED (Acceptance). One series of tests on first load of each truck and every third load per truck thereafter. | Yield 1/30 cyd Air Content 1/30 cyd Slump 1/30 cyd | SM7009 T152 T119LM | AV7009 T 152 T 119 |
| 15 | 18 of 28 | 722.12 | CONCRETE | JOB SITE | BRIDGE DECK OVERLAY. LATEX-MODIFIED (Opening to Traffic when Contractor elects to decrease the dry cure timeline per 722.12.) May be Opened to Traffic after the 48 hr (min) wet curing period and when the compressive strength of cylinders is 4,000 psi greater. Test cylinders shall be obtained at the end of each day's production. (Wet cure time shall not be reduced.) | Minimum of 2 Compressive Cylinders (optional) that's average is greater than 4,000 psi ##Cylinders could be required every 30 cyds soon## | T 22 | T 22 |
| 15 | 19 of 28 18 of 27 | 722 | CONCRETE | JOB SITE | BRIDGE DECK OVERLAY. LATEX-MODIFIED, VERY EARLY STRENGTH (VES) (Acceptance). One series of tests on first load of each truck and every third load per truck thereafter. The first series of tests will be on the first load. | Yield 1/30 cyd Air Content 1/30 cyd Slump 1/30 cyd | SM7009 T 152 T 119LM | AV7009 T 152 T 119 |
| 15 | 20 of 28 | 722 | CONCRETE | JOB SITE | BRIDGE DECK OVERLAY. LATEX-MODIFIED, VERY EARLY STRENGTH (VES) (Acceptance). Test cylinders shall be obtained at the end of each day's production. | Opening to Traffic: After 3 hr wet cure is complete. Minimum 2,500 psi compressive strength after 3 hr wet cure has concluded. | T 22 | T 22 |

| REF | SUB REF. | SPEC. REF. | ITEM | JOB CONTROL LOCATION | JOB CONTROL NOTES | JOB CONTROL FREQUENCY | SM ACCEPTANCE TEMPLATES | AWP ACCEPTANCE TEMPLATES |
|-----|-------------------|------------|----------|----------------------|--|--|---|---|
| 15 | 21 of 28 19 of 27 | 722 | CONCRETE | JOB SITE | BRIDGE DECK OVERLAY. SILICA FUME MODIFIED CONCRETE OVERLAY W/C ratio determined soon after pour begins for each day of placement and if there is a significant change in aggregate moisture. | Yield 1/20 cyd 30 Air Content 1/20 cyd 30 Slump 1/20 cyd 30 Compressive Cylinders, 4 cylinders/20 cyd (2 for 7 day, 2 for backup) W/C Ratio 1/day | T 121 T 152 T 119 T 22 IT403 | T 121 T 152 T 119 T 22 ITM 403 |
| 15 | 22 of 28 20 of 27 | 722 | CONCRETE | JOB SITE | BRIDGE DECK OVERLAY. E5 (LFA and IC) CONCRETE OVERLAY W/C ratio determined soon after pour begins for each day of placement and if there is a significant change in aggregate moisture. | Yield 1/30 cyd Air Content 1/30 cyd Slump 1/30 cyd Compressive Cylinders, refer to most recent E5 Construction Memo W/C Ratio 1/day | T 121 T 152 T 119 T 22 IT403 | T 121 T 152 T 119 T 22 ITM 403 |
| 15 | 23 of 28 21 of 27 | 722 | CONCRETE | JOB SITE | BRIDGE DECK PATCHING CONCRETE | Air Content and Relative Yield 1/50 cyd Yield 1/50 cyd Flexural Beams (Opening to traffic) Flexural Beams (3-day flexural strength verification, average of at least 2 test beams) 2 beams (minimum) /150 cyd | T 152 T 121 No Sample ID Required T 97EP (T 97 MP) | T 152 T 121 No Sample ID Required T 97 |
| 15 | 24 of 28 22 of 27 | 506 | CONCRETE | JOB SITE | FULL-DEPTH and PARTIAL DEPTH PATCHING-PCCP. | Air Content 1/50 cyd Relative Yield 1/50 cyd Flexural Beams (Opening to traffic) Flexural Beams (3-day flexural strength verification, average of at least 2 test beams) 2 beams (minimum) /150 cyd | T 152 T 121 No Sample ID Required T 97EP (T 97 MP) | T 152 T 121 No Sample ID Required T 97 |
| 15 | XX of 29 23 of 27 | 722 | CONCRETE | JOB SITE | BRIDGE DECK OVERLAY. ALL TYPES (Acceptance). Test cylinders shall be obtained and strength verified prior to opening. Either 6 in. x 12 in. or 4 in. x 8 in. may be used. Final acceptance will be based on the average of two 6 in. x 12 in or three 4 in. x 8 in cylinders. | Opening to Traffic: After wet cure is complete and minimum compressive strength after wet cure has concluded. Refer to most recent E5 Construction Memo for additional information on E5 overlay. Compressive Cylinders (minimum quantities): 6 in x 12 in: 4/30 cyd (primary, 7- and 28-day, E5, SFMC, LMC) 4/30 cyd (primary, 3 hr- and 28-day, LMC-VE only) AND 4/30 cyd (backup) 4 in x 8 in: 6/30 cyd (primary, 7- and 28-day, E5, SFMC, LMC) 6/30 cyd (primary, 3 hr- and 28-day, LMC-VE only) AND 5/30 cyd (backup) | T 22 | T 22 |

| REF | SUB REF. | SPEC. REF. | ITEM | JOB CONTROL LOCATION | JOB CONTROL NOTES | JOB CONTROL FREQUENCY | SM ACCEPTANCE TEMPLATES | AWP ACCEPTANCE TEMPLATES |
|-----|---|--|-------------------------|----------------------|--|---|--|--|
| 15 | 25 of 28 <ins>24 of 27</ins> | 509.03(a through f) | CONCRETE | JOB SITE | PCCP JOINT REPAIR (ACCEPTANCE). a) Pre-packaged patching material, CPM, b) Ordinary Portland Cement-Based Concrete, OPCC, c) Rapid Hardening Cement-Based Concrete, RHCC, d) Latex Modified Concrete, LMC, e) Latex Modified Concrete, Very Early Strength, LMC-VE, and f) Rapid Setting Patch Materials, RSP. Approved CMD Required For Each. | Slump, Air, and Relative Yield (first batch of day and a minimum of 1/400 cu. ft., thereafter). Flexural Beams or Cylinders (Opening to traffic). Flexural Beams or Cylinders (Strength Verification, 1/3 days production or whenever slump, relative yield, or air fall the upper limit (minimum). Specimens are standard cured and tested at age consistent with intended use.) | T 119, T 152, and T 121 (or SM7009 if volumetric mixing truck is used) No Sample ID Required T 97 (or T22) | T 119, T 152, and T 121 (or AV7009 if volumetric mixing truck is used) No Sample ID Required T 97 (or T 22) |
| 15 | 26 of 28 <ins>25 of 27</ins> | 501.25(a) prior to 2024 Spec Book and ITM 912, Sec 5.0 | PROFILOGRAPH, PCCP | JOB SITE | For Contracts which include the Profilograph, PCCP pay item. The profilograph shall be calibrated prior to use for both horizontal and vertical scales once each day on each contract. | Profilograph Verification (Machine Certification ID & Machine Operator). Longitudinal Smoothness Acceptance when Design speed > 45 mph & the traveled way or ramp width is constant and \geq .1 miles | IT912 | ITM 912 |
| 15 | 27 of 28 <ins>26 of 27</ins> | 501.25 | INERTIAL PROFILER, PCCP | JOB SITE | For Contracts which include the Inertial Profiler, PCCP pay item. The inertial profiler shall be verified on each contract before use (A Checklist from another Department contract signed by the Engineer within the previous two weeks will also be considered acceptable documentation). | Inertial Profiler Verification (Machine Certification ID & Machine Operator). Longitudinal Smoothness Acceptance when Design speed > 45 mph & the traveled way or ramp slope is constant and \geq .5 miles | IT917 | ITM 917 |
| 15 | 28 of 28 <ins>27 of 27</ins> | 912.06 | CONCRETE | JOB SITE | SYNTHETIC FIBERS FOR USE IN PCC | Approval Number Build America Certification Construction Product | SM9004 SM1005 (attach Build America certification(s) in SM) | AV9004 AV1005 (attach Build America certification(s) in AWP) |
| 16 | 01 of 14 | 910.01b | REINFORCING STEEL | JOB SITE | REINFORCING BAR-UNCOATED. Straight, Bent, or Spiral. Two 4 ft long random verification samples of the same size bar, per job. | Approval Number-J Number Buy America Certification External Document - Mill Certification | SM9004 SM1004 (attach Buy America certification(s) in SM) SM1002 | AV9004 AV1004 (attach Buy America certification(s) in AWP) AV9003 |
| 16 | 02 of 14 | 910.01b9 | REINFORCING STEEL | JOB SITE | REINFORCING BAR-COATED. Straight, Bent, or Spiral. Two 4 ft long random verification samples of the same size bar, per job. | Approval Number-J Number (Certified Reinforcing Bar Epoxy Coater) Buy America Certification (steel) Build America Certification Construction Product (coating) External Document - Mill Certification | SM9004 SM1004 (attach Buy America certification(s) in SM) SM1005 (attach Build America certification(s) in SM) SM1002 | AV9004 AV1004 (attach Buy America certification(s) in AWP) AV1005 (attach Build America certification(s) in AWP) AV9003 |

| REF | SUB REF. | SPEC. REF. | ITEM | JOB CONTROL LOCATION | JOB CONTROL NOTES | JOB CONTROL FREQUENCY | SM ACCEPTANCE TEMPLATES | AWP ACCEPTANCE TEMPLATES |
|-----|----------|------------|-------------------|----------------------|---|--|---|---|
| 16 | 03 of 14 | 910.01b10 | REINFORCING STEEL | CERTIFIED COATER | DOWEL. One random verification sample required per year per manufacturer as directed. | Approval Number-J Number (Certified Reinforcing Bar Epoxy Coater) Buy America Certification (steel) Build America Certification Construction Product (coating) External Document - Mill Certification | SM9004 SM1004 (attach Buy America certification(s) in SM) SM1005 (attach Build America certification(s) in SM) SM1002 | AV9004 AV1004 (attach Buy America certification(s) in AWP) AV 1005 (attach Build America certification(s) in AWP) AV9003 |
| 16 | 04 of 14 | 503.04 | REINFORCING STEEL | JOB SITE | DOWEL BAR ASSEMBLIES. Support baskets for D-1 contraction joints. | Visually inspect for compliance. Buy America Certification | No Sample ID required. SM1004 (attach Buy America certification(s) in SM) | No Sample ID required. AV1004 (attach Buy America certification(s) in AWP) |
| 16 | 05 of 14 | 910.01(b)5 | REINFORCING STEEL | JOB SITE | WELDED WIRE REINFORCEMENT (WWR). Except for use in pneumatically placed mortar; see reference 6 of 11 14 | Approval Number Buy America Certification | SM9004 SM1004 (attach Buy America certification(s) in SM) | AV9004 AV1004 (attach Buy America certification(s) in AWP) |
| 16 | 06 of 14 | 910.01(b)5 | REINFORCING STEEL | JOB SITE | WELDED WIRE REINFORCEMENT (WWR). Used for Pneumatically Placed Mortar Only. | Certification - Type Other Buy America Certification | SM9003 SM1004 (attach Buy America certification(s) in SM) | AV9003 AV1004 (attach Buy America certification(s) in AWP) |
| 16 | 07 of 14 | 910.01(b)5 | REINFORCING STEEL | JOB SITE | WELDED WIRE REINFORCEMENT (WWR) COATED | Approval Number-J Number (Certified Reinforcing Bar Epoxy Coater) Buy America Certification (steel) Build America Certification Construction Product (coating) External Document - Mill Certification | SM9004 SM1004 (attach Buy America certification(s) in SM) SM1005 (attach Build America certification(s) in SM) SM1002 | AV9004 AV1004 (attach Buy America certification(s) in AWP) AV1005 (attach Build America certification(s) in AWP) AV9003 |
| 16 | 08 of 14 | 910.01(b)2 | REINFORCING STEEL | JOB SITE | THREADED TIE BAR ASSEMBLY UNCOATED. For each bar size. | Approval Number-J Number For ≤ 10 units of each bar size, visual inspection Buy America Certification | SM9004 No Sample ID Required SM1004 (attach Buy America certification(s) in SM) | AV9004 No Sample ID Required AV1004 (attach Buy America certification(s) in AWP) ASTM A615 |
| 16 | 09 of 14 | 910.01(b)2 | REINFORCING STEEL | JOB SITE | THREADED TIE BAR ASSEMBLY COATED. For each bar size. | For ≤ 10 units of each bar size, visual inspection Buy America Certification (steel) Build America Certification Construction Product (coating) | No Sample ID Required SM1004 (attach Buy America certification(s) in SM) SM1005 (attach Build America certification(s) in SM) | No Sample ID Required AV1004 (attach Buy America certification(s) in AWP) AV1005 (attach Build America certification(s) in AWP) |
| 16 | 10 of 14 | 910.01(b)2 | REINFORCING STEEL | JOB SITE | THREADED TIE BAR ASSEMBLY UNCOATED. For each bar size. | Approval Number-J Number For > 10 units, two complete assemblies 4 ft long each for each 4000 assemblies. Buy America Certification | SM9004 SM9009 Plain Assemblies SM1004 (attach Buy America certification(s) in SM) | ASTM A615 Uncoated Assemblies AV1004 (attach Buy America certification(s) in AWP) |
| 16 | 11 of 14 | 910.01(b)2 | REINFORCING STEEL | JOB SITE | THREADED TIE BAR ASSEMBLY COATED. For each bar size. | For > 10 units, two complete assemblies 4 ft long each for each 4000 assemblies. Buy America Certification (steel) Build America Certification Construction Product (coating) | SM9009 Epoxy Assemblies SM1004 (attach Buy America certification(s) in SM) SM1005 (attach Build America certification(s) in SM) | ASTM A775 Coated Assemblies AV1004 (attach Buy America certification(s) in AWP) AV1005 (attach Build America certification(s) in AWP) |
| 16 | 12 of 14 | 910.01b3 | REINFORCING STEEL | JOB SITE | COATED SPLICING SYSTEM for reinforcing bar. Two 3 ft bars and coupler random verification sample required per year per manufacturer per size as directed. | Approval Number Buy America Certification | SM9004 SM1004 (attach Buy America certification(s) in SM) | AV9004 AV1004 (attach Buy America certification(s) in AWP) |

| REF | SUB REF. | SPEC. REF. | ITEM | JOB CONTROL LOCATION | JOB CONTROL NOTES | JOB CONTROL FREQUENCY | SM ACCEPTANCE TEMPLATES | AWP ACCEPTANCE TEMPLATES |
|-----|----------|-----------------------------|---|----------------------------------|--|---|--|--|
| 16 | 13 of 14 | 910.01a | REINFORCING STEEL | JOB SITE | BENT TIE BAR. One random verification sample required per year per manufacturer as directed. Two complete bar samples when less than 8 ft, otherwise one complete bar sample, for each bar size. | Approval Number Sample ID Number Buy America Certification | SM9004 SM1004 (attach Buy America certification(s) in SM) | AV9004 AV1004 (attach Buy America certification(s) in AWP) |
| 16 | 14 of 14 | 901.05 | REINFORCING STEEL | JOB SITE | CHEMICAL ANCHOR SYSTEM. One 1 qt random verification sample required per year per manufacturer as directed. | Approval Number Buy America Certification Build America Certification Construction Product | SM9004 SM1004 (attach Buy America certification(s) in SM) SM1005 (attach Build America certification(s) in SM) | AV9004 AV1004 (attach Buy America certification(s) in AWP) AV1005 (attach Build America certification(s) in AWP) |
| 17 | 01 of 07 | 906.02(a)1 | CRACK, JOINT and LOOP SEALANT | JOB SITE, SOURCE, or DISTRIBUTOR | SILICONE JOINT SEALANT. Single Component Low Modulus. | Approval Number Build America Certification Manufactured Product | SM9004 SM1005 (attach Build America certification(s) in SM) | AV9004 AV1005 (attach Build America certification(s) in AWP) |
| 17 | 02 of 07 | 906.02(a)2 | CRACK, JOINT and LOOP SEALANT | JOB SITE, SOURCE, or DISTRIBUTOR | HOT POURED JOINT SEALANT. ASTM D6690, Type II | Certification Type A Build America Certification Manufactured Product | SM9003 SM1005 (attach Build America certification(s) in SM) | AV9003 AV1005 (attach Build America certification(s) in AWP) |
| 17 | 03 of 07 | 906.02(a)3 | HOT POURED JOINT ADHESIVE | JOB SITE | HOT POURED JOINT ADHESIVE. Used to seal joint between adjacent HMA surface and int. courses. | Certification - Type A Build America Certification Manufactured Product | SM9003 SM1005 (attach Build America certification(s) in SM) | AV9003 AV1005 (attach Build America certification(s) in AWP) |
| 17 | 04 of 07 | 906.02(a)3 | JOINT SEALANT | JOB SITE, SOURCE, or DISTRIBUTOR | PREFORMED ELASTOMERIC JOINT SEALANT | Certification for joint material-Type A Build America Certification Manufactured Product | SM9003 SM1005 (attach Build America certification(s) in SM) | AV9003 AV1005 (attach Build America certification(s) in AWP) |
| 17 | 05 of 07 | 906.02a1 906.02b | CRACK and JOINT FILLER | JOB SITE, SOURCE, or DISTRIBUTOR | SILICONE JOINT SEALANTS FOR I-A JOINTS. Transverse joints and Backer Rod for RCBA's (Included in the cost of the RCBA). | Approval Number Certification for Backer Rod - Type C Build America Certification Manufactured Product | SM9004 SM9003 SM1005 (attach Build America certification(s) in SM) | AV9004 AV9003 AV1005 (attach Build America certification(s) in AWP) |
| 17 | 06 of 07 | 906.02(b) | JOINT and LOOP SEALING MATERIALS | JOB SITE | BACKER ROD | Certification for Backer Rod-Type C Build America Certification Manufactured Product | SM9003 SM1005 (attach Build America certification(s) in SM) | AV9003 AV1005 (attach Build America certification(s) in AWP) |
| 17 | 07 of 07 | 906.02(a)4 and 906.02(b) | BRIDGE JOINT MEMBRANE (FOR SEMI-INTEGRAL END BENTS) | JOB SITE, SOURCE, or DISTRIBUTOR | POLYCHLOROPRENE JOINT MEMBRANE, ADHESIVE AND BACKER ROD | Certification for Membrane-Type B Certification for Adhesive-Type C Certification for Backer Rod-Type C Build America Certification Manufactured Product (for backer rod only) Build America Certificate Construction Product | SM9003 SM9003 SM9003 SM1005 (attach Build America certification(s) in SM) SM1005 (attach Build America certification(s) in SM) | AV9003 AV9003 AV9003 AV1005 (attach Build America certification(s) in AWP) AV1005 (attach Build America certification(s) in AWP) |
| 18 | 01 of 03 | 909.10 | EPOXY PENETRATING SEALERS | JOB SITE, SOURCE, or DISTRIBUTOR | POLYSULFIDE TYPE, UNMODIFIED TYPE, and LOW TEMPERATURE TYPE Applies only to contracts let prior to 9/1/2019 | Approval Number-CF Number (Coating Formulations) Build America Certification Manufactured Product | SM9004 SM1005 (attach Build America certification(s) in SM) | AV9004 AV1005 (attach Build America certification(s) in AWP) |
| 18 | 02 of 03 | 709.05b | SILICA SAND BAGGED | JOB SITE | | Visually inspect bag label or MSDS. (Applies only to contracts let prior to 9/1/2019) | No Sample ID required. | No Sample ID required. |
| 18 | 03 of 03 | 709.05b | SILICA SAND BULK | JOB SITE | | Certification-Type C (Applies only to contracts let prior to 9/1/2019) | SM9003 | AV9003 |
| 19 | 01 of 01 | 909.10 | PROPRIETARY PCC SEALER | JOB SITE | NON-EPOXY PCC SEALERS. One 1 qt random verification sample required per year per manufacturer as directed. | Approval Number Build America Certification Manufactured Product | SM9004 SM1005 (attach Build America certification(s) in SM) | AV9004 AV1005 (attach Build America certification(s) in AWP) |

| REF | SUB REF. | SPEC. REF. | ITEM | JOB CONTROL LOCATION | JOB CONTROL NOTES | JOB CONTROL FREQUENCY | SM ACCEPTANCE TEMPLATES | AWP ACCEPTANCE TEMPLATES |
|-----|----------|---------------------|--|------------------------------|--|--|--|--|
| 20 | 01 of 02 | 909.11 | EPOXY | JOB SITE | RESIN BASE SYSTEM or ADHESIVE. For bonding plastic concrete to hardened concrete. Inspect for dimensions and/or workmanship. | Certification-Type C Build America Certification Manufactured Product | SM9003 SM1005 (attach Build America certification(s) in SM) | AV9003 AV1005 (attach Build America certification(s) in AWP) |
| 20 | 02 of 02 | 909.12 | EPOXY | JOB SITE | RESIN ADDITIVES FOR EPOXY INJECTION ADHESIVE. For injection into cracks in hardened concrete. | Certification-Type C Build America Certification Manufactured Product | SM9003 SM1005 (attach Build America certification(s) in SM) | AV9003 AV1005 (attach Build America certification(s) in AWP) |
| 21 | 01 of 01 | 506.02 | BONDING AGENT | JOB SITE | For grout finish. | Approval Number Build America Certification Manufactured Product | SM9004 SM1005 (attach Build America certification(s) in SM) | AV9004 AV1005 (attach Build America certification(s) in AWP) |
| 22 | 01 of 05 | 211.02, 904.06 | B BORROW / STRUCTURE BACKFILL, GRADATION | CAPP SOURCE | ALL USES. | Approval Number-Approved CAPP Source | IT211 | AV9004 |
| 22 | 02 of 05 | 211.02, 904.06 | B BORROW / STRUCTURE BACKFILL, GRADATION | PIT, OTHER (NON-CAPP SOURCE) | | INDOT District Laboratory Testing (Organic Content, Liquid Limit & Plasticity Index, and Maximum Dry Density & Optimum Moisture Content). One of each test for each soil type. Name of Certified Technician or Qualified Geotechnical Technician required for acceptance of Contractor's Test Results for Gradation Control. One test per 2000 T based on production samples into a stockpile or by over the scales measurement. Minimum two tests per contract. | T 267, T 90, and T 99 IT211-Certified Technician/Qualified Geotechnical Technician | T 267, T 90, and T 99 ITM 211-Certified Technician/Qualified Geotechnical Technician |
| 22 | 03 of 05 | 211.04 | B BORROW, DENSITY, STRENGTH, OR STIFFNESS AND MOISTURE | JOB SITE | | One in- place density or, stiffness, or strength test for each 800 tons, for each lift, minimum one sample. A minimum of one moisture test per day. The testing frequency in SiteManager or AWP will need to be changed to reflect actual number of moisture tests required per PLN. | T 191, ITM 508 or ITM 509 ITM 506 (for sand/granular soils) or T 255 (for coarse aggregate) | T 191, ITM 508 or ITM 509 ITM 506 (for sand/granular soils) or T 255 (for coarse aggregate) |
| 22 | 04 of 05 | 211.04 | STRUCTURE BACKFILL, DENSITY OR STIFFNESS AND MOISTURE | JOB SITE | | One in-place density or stiffness test per 800 tons, minimum one sample. A minimum of one moisture test per day is required. The testing frequency in SiteManager or AWP will need to be changed to reflect actual number of moisture tests required per PLN. | T 191, ITM 508 or ITM 509 ITM 506 (for sand/granular soils) or T 255 (for coarse aggregate) | T 191, ITM 508 or ITM 509 ITM 506 (for sand/granular soils) or T 255 (for coarse aggregate) |
| 22 | 05 of 05 | 731.11 | STRUCTURE BACKFILL | JOB SITE | FOR RETAINING WALL SYSTEMS (MSE and MODULAR BLOCK) | Certification-Type A | SM9003 | AV9003 |
| 23 | 01 of 03 | 303.06 | COMPACTED AGGREGATE GRADATION TEMP. INCLUDED | SOURCE | ALL USES. | Approval Number-Approved CAPP Source | IT211 | AV9004 |
| 23 | 02 of 03 | 303.06 203.24(b) | COMPACTED AGGREGATE DENSITY OR STIFFNESS AND MOISTURE | JOB SITE | ALL USES. | For < 20 T, or shoulder wedge, or if depth of material < 3 in. no density or stiffness testing is required. Otherwise, 1 LWD Density Test per 800 T . For < 20 T, no moisture test is required. Otherwise, a minimum of one moisture taken from the first truck of the day for each day of aggregate placement. The testing frequency in SiteManager or AWP will need to be changed to reflect actual number of moisture tests required per PLN. | No Sample ID required. IT508 No Sample ID required. T 255 | No Sample ID required. ITM 508 No Sample ID required. T 255 |

| REF | SUB REF. | SPEC. REF. | ITEM | JOB CONTROL LOCATION | JOB CONTROL NOTES | JOB CONTROL FREQUENCY | SM ACCEPTANCE TEMPLATES | AWP ACCEPTANCE TEMPLATES |
|-----|----------|-------------------------|--|------------------------------|---|--|---|---|
| 23 | 03 of 03 | 303.06 | COMPACTED AGGREGATE PI, LL and DENSITY | SOURCE | ALL USES. District Testing will sample and test dense graded aggregates as needed when a sand cone in accordance with T191 is used for compaction control or as otherwise directed by the Engineer. If material is plastic, LL and PI will be sampled and tested monthly when used. | INDOT District Laboratory Test Results. | T 99 T 90 | T 99 T 90 |
| 24 | 01 of 07 | 302.06 | SUBBASE, GRADATION | SOURCE | ALL USES. | Approval Number-Approved CAPP Source | IT211 | AV9004 |
| 24 | 02 of 07 | 302.06 | SUBBASE, DENSITY OR STIFFNESS AND MOISTURE | JOB SITE | ALL USES. | For < 20 T or if depth of material < 3 in. no testing required. Otherwise, 1 LWD Density Test per 800 T For < 20 T, no moisture test is required. Otherwise, a minimum of one moisture taken from the first truck of the day for each day of aggregate placement. The testing frequency in SiteManager or AWP will need to be changed to reflect actual number of moisture tests required per PLN. | No Sample ID required. ITM 508 or T 191 No Sample ID required. T 255 | No Sample ID required. ITM 508 or T 191 No Sample ID required. T 255 |
| 24 | 03 of 07 | 309.05 | LEAN CONCRETE BASE | JOB SITE | | Air Content 1/50 cyd 1 Set of 3 6 in. x 12 in. Cylinders for Compression Testing at 28 days each day | T 152 T 22 | T 152 T 22 |
| 24 | 04 of 07 | 310 | CEMENT TREATED PERMEABLE BASE | PIT, OTHER (NON-CAPP SOURCE) | | INDOT District Laboratory Testing (Organic Content, Liquid Limit & Plasticity Index, and Maximum Dry Density & Optimum Moisture Content). One of each test. Name of Certified Technician or Qualified Geotechnical Technician required for acceptance of Contractor's Test Results for Gradation Control. One test per 2000 T based on production samples into a stockpile or by over the scales measurement. Minimum two tests per contract. | T 267, T 90, and T 99 IT211-Certified Technician/Qualified Geotechnical Technician | T 267, T 90, and T 99 ITM 211-Certified Technician/Qualified Geotechnical Technician |
| 24 | 05 of 07 | 310 | CEMENT TREATED PERMEABLE BASE | CAPP SOURCE | ALL USES. | Approval Number-Approved CAPP Source | IT211 | AV9004 |
| 24 | 06 of 07 | 310 | CEMENT TREATED PERMEABLE BASE | JOB SITE | | Compressive Cylinders, 2 cylinders/5,000 sq yds (2 for 7 day) Thickness, 4 in cores, 1/2,500 sq yds Compaction, 1 - 3 passes of an approved roller within 30 minutes of placement Field Permeability, 1/5,000 sq yds by Contractor Finished Surface is within +/- 1/4 in. longitudinally & transversely measured with a 16' rolling straightedge | T 22 ITM 404 Visual Visual T 215 Visual | T 22 ITM 404 Visual Visual T 215 Visual |
| 24 | 07 of 07 | 302.01, 302.06 & 203.25 | SUBBASE WITHOUT DENSITY OR STIFFNESS CONTROL AGGREGATE DRAINAGE LAYER | JOB SITE | APPROVED ROLLER | Aggregate Drainage Layer: 2 passes of an Approved Roller before final trimming and one pass of a static roller after trimming. | Visual Inspection | Visual Inspection |

| REF | SUB REF. | SPEC. REF. | ITEM | JOB CONTROL LOCATION | JOB CONTROL NOTES | JOB CONTROL FREQUENCY | SM ACCEPTANCE TEMPLATES | AWP ACCEPTANCE TEMPLATES |
|-----|----------|---|--|----------------------|--|--|--|--|
| 25 | 01 of 06 | RSP 218-R-576 | EMBANKMENT, SUBGRADE STRENGTH OR DENSITY AND MOISTURE, QC/QA FOR SOIL FILL SECTIONS AND SUBGRADE | JOB SITE | If fill is being placed in multiple locations, additional samples and tests will be required. Laboratory Testing for Soluble Sulfate is only required for Subgrade Treatment requiring soil compaction to 100% within the specified thickness of the subgrade treatment in cut sections and within 24 in. of the finished subgrade elevation in fill sections. | INDOT District Laboratory Testing (Organic Content, Liquid Limit & Plasticity Index, Maximum Dry Density & Optimum Moisture Content, and Soluble Sulfate). One of each test for each soil type. Three DCP or Density tests per 2,000 cyd for each lift. One Moisture Test each 4 hours for Clay; and one test daily for Silty, Sandy or Granular Soils. The testing frequency in SiteManager or AWP will need to be changed to reflect actual number of moisture tests required for the per PLN. | T 267, T 90, and ITM 510 (when applicable) IT509 or T 191 T 99, IT 506 | T 267, T 90, and ITM 510 (when applicable) ITM 509 or T 191 T 99, ITM 506 |
| 25 | 02 of 06 | 203.26 203.23 207.03 203.20(b) 203.09 | EMBANKMENT, SUBGRADE STRENGTH OR DENSITY AND MOISTURE, NON-QC/QA, INCLUDING SHALE, SOFT ROCK AND SOFT ROCK MIXES | JOB SITE | | INDOT District Laboratory Testing (Organic Content, Liquid Limit & Plasticity Index, Maximum Dry Density & Optimum Moisture Content, and Soluble Sulfate). One of each test for each soil type. 1 in place stiffness or strength test per 800 tons for each lift. One Moisture Test each 4 hours for Clay; and one test daily for Silty, Sandy or Granular Soils. The testing frequency in SiteManager or AWP will need to be changed to reflect actual number of moisture tests required for the per PLN. Pulverized shale or soft rock will require 1 moisture test every 2 hours with 1 gradation test every 1000' | T 267, T 90, and ITM 510 (when applicable) IT509, T 191, IT508 T 99, IT506 | T 267, T 90, and ITM 510 (when applicable) IT509, T 191, IT508 T 99, ITM 506 |
| 25 | 03 of 06 | RSP 203-R-699 | EMBANKMENT, GRANULAR TIRE SHREDS (GTS) | JOB SITE | GRANULAR TIRE SHREDS | Certification - Type C | SM9003 | AV9003 |
| 25 | 04 of 06 | 203.24 203.18 203.26 ITM 514 | EMBANKMENT, STRENGTH OR DENSITY AND MOISTURE, RAP | JOB SITE | Where the depth of the Embankment exceeds 5 ft the compacted lift thickness for RAP shall not be greater than 12 in. Where the depth of the Embankment is 5 ft or less the compacted lift thickness for RAP shall not be greater than 6 in. Max particle size is 2 in. Proofroll as per 203.26 | For < 20 T or if depth of material < 3 in. no density or stiffness testing is required. Otherwise, 1 LWD Density Test per 800 T. Maximum & Allowable Average Deflection determined from Test Section. For < 20 T, no moisture test is required. Otherwise, a minimum of one moisture taken from the first truck of the day for each day of aggregate placement. The testing frequency in SiteManager or AWP will need to be changed to reflect actual number of moisture tests required per PLN. Proofroll as per 203.26 | Visual ITM 508 T 255 Visual | Visual ITM 508 T 255 Visual |

| REF | SUB REF. | SPEC. REF. | ITEM | JOB CONTROL LOCATION | JOB CONTROL NOTES | JOB CONTROL FREQUENCY | SM ACCEPTANCE TEMPLATES | AWP ACCEPTANCE TEMPLATES |
|-----|----------|---|--|----------------------|--|--|--|--|
| 25 | 05 of 06 | 203.26 203.20(a) 203.18 301 | EMBANKMENT, STRENGTH OR DENSITY AND MOISTURE, RECYCLED CONCRETE PAVEMENT | JOB SITE | Where the depth of the Embankment exceeds 10 ft, max size RCP will be 2 ft for depths 10 ft or greater. Where the depth of the Embankment is 10 ft or less, max particle size will be 1 ft. RCP will be spread and rolled with approved equipment. Final 6 in shall be in accordance with Spec. 203.18 & 301 | (Top 6 in) Three LWD Tests per 800 tons of compacted aggregate for the width of the constructed area. Proofroll entire grade at a maximum thickness of 5 ft. Per 203.26. (Top 6 in) One Moisture test daily. The testing frequency in SiteManager or AWP will need to be changed to reflect actual number of moisture tests required for the per PLN. | ITM 508 Visual T 255 | ITM 508 Visual T 255 |
| 25 | 06 of 06 | 203.25 203.26 | EMBANKMENT WITHOUT STIFFNESS CONTROL COARSE GRADED AGGREGATE | JOB SITE | AGGREGATE MATERIAL THAT IS NOT POSSIBLE TO TEST STIFFNESS SHALL BE COMPACTED WITH SEVERAL PASSES OF CRAWLER TREAD EQUIPMENT OR APPROVED VIBRATORY EQUIPMENT OF AT LEAST 10 TONS. | Placed in lifts no greater than 9 in with a minimum of 5 passes of the roller. Top 24 in shall be proofrolled and each 5 ft of fill. One Moisture test daily. The testing frequency in SiteManager or AWP will need to be changed to reflect actual number of moisture tests required for the per PLN. | Visual Inspection T 99, IT506 | Visual Inspection T 99, IT506 |
| 26 | 01 of 05 | 207.02 215.02 | SUBGRADE TREATMENT (CHEMICAL MODIFIED SUBGRADE) | JOB SITE | FOR PAVEMENT (Mainline and Shoulders). Samples of the soils for chemical modification shall undergo INDOT District Laboratory testing to ensure the soil(s) meet(s) the Maximum Dry Density, Organic Material, and Sulfate Content requirements. | INDOT District Laboratory Testing (Maximum Dry Density, Organic Material, and Sulfate Content). One of each test for each soil type. | T 99, T 267, and ITM 510 | T 99, T 267, and ITM 510 |
| 26 | 02 of 05 | 207.03 215.09 218.05 203.24 | SUBGRADE TREATMENT, STIFFNESS OR STRENGTH AND MOISTURE (CHEMICAL MODIFIED SUBGRADE), QC/QA FOR SOIL FILL SECTIONS AND SUBGRADE | JOB SITE | FOR PAVEMENT (Mainline and Shoulders). Chemically Modified Soils. | Three DCP tests per 1,400 cu yd OR Three LWD Tests per 1,400 cu yd. One Moisture Test each 4 hours during chemical modification/soil mixing. The testing frequency in SiteManager or AWP will need to be changed to reflect actual number of moisture tests required per PLN. | IT509 or IT508 IT506 (Stovetop) | ITM 509 or ITM 508 ITM 506 (Stovetop) |
| 26 | 03 of 05 | 215.09 218.05 | SUBGRADE TREATMENT, GRADATION (CHEMICAL MODIFIED SUBGRADE), QC/QA FOR SOIL FILL SECTIONS AND SUBGRADE | JOB SITE | FOR PAVEMENT (Mainline and Shoulders). Chemical Modification. | One Gradation Test per 2,500 cu yds | IT516 | ITM 516 |
| 26 | 04 of 05 | 207.03 301.05 301.06 203.24(b) | SUBGRADE TREATMENT, STIFFNESS AND MOISTURE (COMPACTED AGGREGATE) | JOB SITE | FOR PAVEMENT (Mainline and Shoulders). Compacted Coarse Aggregate No. 53. | Three LWD Tests per 800 tons of compacted aggregate for the width of the constructed area. For < 20 T, no moisture test is required. Otherwise, a minimum of one moisture taken from the first truck of the day for each day of aggregate placement. The testing frequency in SiteManager or AWP will need to be changed to reflect actual number of moisture tests required per PLN. | IT508 T 255 | ITM 508 T 255 |
| 26 | 05 of 05 | 219 | CEMENT STABILIZED SUBGRADE SOIL, STIFFNESS AND MOISTURE | JOB SITE | QUALITY ASSURANCE, QA, TESTING. Refer to 219.11 for QC requirements for Contractor. | Three LWD Tests per 2,000 sq. yds. for the width of the constructed area 7-days after compaction. One moisture test per 2,000 sq. yds during cement and soils mixing. | IT508 IT506 | ITM 508 ITM 506 |

| REF | SUB REF. | SPEC. REF. | ITEM | JOB CONTROL LOCATION | JOB CONTROL NOTES | JOB CONTROL FREQUENCY | SM ACCEPTANCE TEMPLATES | AWP ACCEPTANCE TEMPLATES |
|-----|----------|----------------------|------------------------------------|----------------------|--|--|---|--|
| 27 | 01 of 01 | 910.18 910.13 | METAL FENCE MATERIALS | INSTALLER or JOBSITE | FENCE FABRIC, POSTS, GATES, AND ACCESSORIES | Certification - Type C Buy America Certification | SM9003 SM1004 (attach Buy America certification(s) in SM) | AV9003 AV1004 (attach Buy America certification(s) in AWP) |
| 32 | 01 of 03 | 910.09 | GUARDRAIL | JOBSITE | STEEL W BEAM, THRIE BEAM RAILS, BACKUP PLATES, GUARDRAIL ACCESSORIES, FITTINGS AND FASTENERS. For use with Guardrail, Guardrail Transitions, Terminal Systems and Guardrail End Treatment Type I or Type II. | Approval Number (Certified Guardrail Manufacturer, one for each component manufacturer) Buy America (one for each component and manufacturer) Certification - Type C (Accessories, Fittings and Fasteners Only) | SM9004 SM1004 (attach Buy America certification(s) in SM) SM9003 | AV9004 AV1004 (attach Buy America certification(s) in AWP) AV9003 |
| 32 | 02 of 03 | 910.09 601.02 | GUARDRAIL AND GUARDRAIL COMPONENTS | JOBSITE | END SECTIONS, BUFFER END SECTIONS, TRANSITIONS, TERMINAL CONNECTORS, SHOES AND CHANNELS. For use with Guardrail, Guardrail Transitions and Terminal Systems | Certification - Type C (A copy of the mill certification and mechanical test results, if tests were run, the heat number, quantity, and purchase order number shall be included) Buy America Certification (one for each component and manufacturer) Approval Number (Certified Guardrail Manufacturer, one for each component manufacturer) | SM9003 SM1004 (attach Buy America certification(s) in SM) SM9004 | AV9003 AV1004 (attach Buy America certification(s) in AWP) AV9004 |
| 32 | 03 of 03 | 910.10(a) | GUARDRAIL | JOBSITE | STEEL GUARDRAIL POSTS. For use with Guardrail, Guardrail Transitions and Terminal Systems. | Certification - Type C (A copy of the mill certification and mechanical test results, if tests were run, the heat number, quantity, and purchase order number shall be included) Buy America Certification (one for each component and manufacturer) Approval Number (Certified Guardrail Manufacturer, one for each component manufacturer) | SM9003 SM1004 (attach Buy America certification(s) in SM) SM9004 | AV9003 AV1004 (attach Buy America certification(s) in AWP) AV9004 |
| 33 | 01 of 02 | 911.02f | SAWN TIMBER POSTS AND BLOCKOUTS | JOBSITE or SUPPLIER | ALL USES. Inspect for dimensions and wood defects. | Visual Inspection Build America Certification Manufactured Product | No Sample ID required. SM1005 (attach Build America certification(s) in SM) | No Sample ID required. AV1005 (attach Build America certification(s) in AWP) |
| 33 | 02 of 02 | 926.03 | GUARDRAIL BLOCKS, OTHER THAN WOOD | JOBSITE | OTHER THAN WOOD GUARD RAIL BLOCKOUTS | External Document (Manufacturer's FHWA eligibility letter stating NCHRP 350 or MASH TL-3 Compliance) Buy America (one for each steel blockout manufacturer) Build America Certification Manufactured Product (Composite) | SM1002 SM1004 (attach Buy America certification(s) in SM) SM1005 (attach Build America certification(s) in SM) | AV9003 AV1004 (attach Buy America certification(s) in AWP) AV1005 (attach Build America certification(s) in AWP) |
| 34 | 01 of 02 | 910.20 910.02(g)2 | STEEL BRIDGE RAILING COMPONENTS | JOBSITE | ANCHOR BOLTS | Test Results Certification - Other (in accordance with 910.02(g)2.d) Buy America Certification | SM9003 SM1004 (attach Buy America certification(s) in SM) | AV9003 AV1004 (attach Buy America certification(s) in AWP) |
| 34 | 02 of 02 | 910.20 | STEEL BRIDGE RAILING COMPONENTS | JOBSITE | ALL OTHER COMPONENTS. | Certification-Type C Buy America Certification | SM9003 SM1004 (attach Buy America certification(s) in SM) | AV9003 AV1004 (attach Buy America certification(s) in AWP) |
| 35 | 01 of 01 | 601.07 | GUARDRAIL END TREATMENT | JOBSITE | GUARD RAIL END TREATMENTS FOR W-BEAM AND THRIE BEAM RAIL SECTIONS. | Approval Number-W# Certification-Other (Verify Installer's Name to be on Certified Guardrail End Treatment and Impact Attenuator Installers List) External Document (Manufacturer's FHWA eligibility letter stating NCHRP 350 or MASH TL-2 or TL-3 Compliance) Buy America Certification | SM9004 SM9003 (Identify Certified Installer's Name and Company in Remarks) SM1002 SM1004 (attach Buy America certification(s) in SM) | AV9004 AV9003 (Identify Certified Installer's Name and Company in Remarks) AV9003 AV1004 (attach Buy America certification(s) in AWP) |
| 36 | 01 of 03 | 801.10.1 | IMPACT ATTENUATORS TEMPORARY | JOBSITE | TEMPORARY UNIT (CZ) | Certification-Other Copy of Certificate from unit's manufacturer indicating the installer has been trained in installation of the unit. External Document (Manufacturer's FHWA eligibility letter stating NCHRP 350 or MASH TL-2 or TL-3 Compliance) | SM9003 (Identify Certified Installer's Name and Company in Remarks) SM1002 | AV9003 (Identify Certified Installer's Name and Company in Remarks) AV9003 |

| REF | SUB REF. | SPEC. REF. | ITEM | JOB CONTROL LOCATION | JOB CONTROL NOTES | JOB CONTROL FREQUENCY | SM ACCEPTANCE TEMPLATES | AWP ACCEPTANCE TEMPLATES |
|-----|----------|---|--|----------------------|---|--|---|--|
| 36 | 02 of 03 | 601.08 | IMPACT ATTENUATORS PERMANENT | JOB SITE | PERMANENT | Approval Number-W# Certification-Other (Verify Installer's Name to be on Certified Guardrail End Treatment and Impact Attenuator Installers List except ED attenuators) External Document (Manufacturer's FHWA eligibility letter stating NCHRP 350 or MASH TL-2 or TL-3 Compliance) Buy America Certification (steel) Build America Certification Construction Product or Build America Certification Manufactured Product (other than steel) | SM9004 SM9003 (Identify Certified Installer's Name and Company in Remarks) SM1002 SM1004 (attach Buy America certification(s) in SM) SM1005 (attach Build America certification(s) in SM) | AV9004 AV9003 (Identify Certified Installer's Name and Company) AV9003 AV1004 (attach Buy America certification(s) in AWP) AV1005 (attach Build America certification(s) in AWP) |
| 36 | 03 of 03 | RSP 801-T-227 | TRUCK MOUNTED ATTENUATOR | JOB SITE | TRUCK MOUNTED | External Document (Manufacturer's FHWA eligibility letter stating NCHRP 350 or MASH TL-2 or TL-3 Compliance) | SM1002 | AV9003 |
| 37 | 01 of 03 | 914.01 | TOPSOIL | SOURCE | Visually inspect for material detrimental to proper development of ground vegetation, in addition to laboratory testing. | One 1 lb sample for pH testing per source. | SM6009 | AV6009 |
| 37 | 02 of 03 | 914.01 791 RSP 629-R- 630 | PLANT GROWTH LAYER | JOB SITE | Visually inspect for material detrimental to proper development of ground vegetation. | Certification-Type A. One 5 U.S. cup sample (1 lb minimum) for each 10,000 square yards installed. | SM9003 | AV9003 |
| 37 | 03 of 03 | 629 | TOPSOIL MANAGEMENT AND PROCESSING | JOB SITE | Visually inspect for material detrimental to proper development of ground vegetation. | Certification - Type D | SM9003 | AV9003 |
| 38 | 01 of 01 | 914.01 | AGRICULTURAL LIMESTONE | SOURCE | TOPSOIL ADDITIVE WHEN USED TO RAISE pH. | Visual Inspection | No Sample ID required. | No Sample ID required. |
| 39 | 01 of 02 | 914.03 791 RSP 629-R- 630 621.05(a) 622.09 | FERTILIZER | JOB SITE | ALL USES. BAGGED, BULK, OR LIQUID. Analysis from bag or weigh ticket. | Visual Inspection | No Sample ID required. | No Sample ID required. |
| 39 | 02 of 02 | 914.03 | COMPOST | SUPPLIER | ALL USES. | Certification-Type C | SM9003 | AV9003 |
| 40 | 01 of 03 | 914.04 621 ITM 804 | SEED TYPES R, U, P, SHADE, FLOODPLAIN, SPRING SUMMER COVER CROP, AND FALL COVER CROP | JOB SITE | Seed will be considered expired 15 months after the date it was tested. Expired seed may be retested. | Certification-Other (Letter from State Seed Commissioner) < 100 lbs per mix, Vendor Testing attached to Certification Other from a Seed Supplier that holds a State Seed Permit > 100 lbs per mix, Certification Other, with attached test results performed by a USDA approved Lab (link: https://www.ams.usda.gov/sites/default/files/media/LOfficialListingASP.pdf) signed by a Certified Seed Analyst or a Registered Seed Technologist. Seed Supplier must hold an Indiana State Seed Permit that is attached to the Certification Build America Certification Manufactured Product | SM9003 SM9003 SM1005 (attach Build America certification(s) in SM) | AV9003 AV9003 AV1005 (attach Build America certification(s) in AWP) |
| 40 | 02 of 03 | 914.04 621 | SEED. (Temporary Only- Seed Mix T) | JOB SITE or SUPPLIER | Visual Inspection to ensure that the seed's package is clearly marked and labeled by the manufacturer as to its content and weight. | Sample ID Number | No Sample ID required. | No Sample ID required. |

| REF | SUB REF. | SPEC. REF. | ITEM | JOB CONTROL LOCATION | JOB CONTROL NOTES | JOB CONTROL FREQUENCY | SM ACCEPTANCE TEMPLATES | AWP ACCEPTANCE TEMPLATES |
|-----|----------|----------------------------------|--|---------------------------------|--|---|--|---|
| 40 | 03 of 03 | Unique Special Provision ITM 804 | NATIVE GRASSES AND FORB SEEDING (Wildflower and Prairie Grasses) | JOB SITE | Seed will be considered expired 15 months after the date it was tested. Expired seed may be retested. | Certification-Other (Letter from State Seed Commissioner) — < 100 lbs per mix, Vendor Testing attached to Certification Other from a Seed Supplier that holds a State Seed Permit > 100 lbs per mix, Certification Other, with attached test results performed by a USDA approved Lab (link: https://www.ams.usda.gov/sites/default/files/media/LOfficialListingASP.pdf) signed by a Certified Seed Analyst or a Registered Seed Technologist. Seed Supplier must hold an Indiana State Seed Permit that is attached to the Certification Build America Certification Manufactured Product | SM9003 SM9003 SM1005 (attach Build America certification(s) in SM) | AV9003 AV9003 AV1005 (attach Build America certification(s) in AWP) |
| 41 | 01 of 03 | 914.05 | MULCH | JOB SITE | For all types of mulch (when paid by weight), visually inspect each shipment. | For < 40 T, Visual Inspection. | No Sample ID required. | No Sample ID required. |
| 41 | 02 of 03 | 914.05 | MULCH | JOB SITE | For all types of mulch (when paid by weight), inspect each shipment. | For ≥ 40 T, one moisture test. Additional tests when inspection indicates a significant amount of moisture in the mulch. | SM6004 | AV6004 |
| 41 | 03 of 03 | 914.05 | MULCH | JOB SITE | EROSION CONTROL BLANKETS | Certification-Type C | SM9003 | AV9003 |
| 42 | 01 of 02 | 914.07 | SOD | JOB SITE | NURSERY. | Certification-Type C | SM9003 | AV9003 |
| 42 | 02 of 02 | 914.07 | SOD | JOB SITE | OTHER. | Visual Inspection | No Sample ID required. | No Sample ID required. |
| 43 | 01 of 02 | 914.08 622.19 | PLANTS | JOB SITE or NURSERY | SEEDLINGS. Certificate of compliance for plants required. Inspect plants for quality. | Approval Number W Number for Seedling Source Certification Other that details the Seedling Plant Materials being provided are in accordance with Indiana Nursery Laws Visual Inspection: Seedlings will be tagged to show the name and size, are inspected for quality of the normal species, true to type and standard form Build America Certification Manufactured Product | SM9004 SM9003 No Sample ID required. SM1005 (attach Build America certification(s) in SM) | AV9004 AV9003 No Sample ID required. AV1005 (attach Build America certification(s) in AWP) |
| 43 | 02 of 02 | 914.08 622.18 | PLANTS | JOB SITE | PLANTS. (Balled and Burlapped, Container Grown, Bare Rooted, etc.). Certificate of compliance for plants required. Inspect plants for quality. | Certification-Type C | SM9003 | AV9003 |
| 44 | 01 of 03 | 914.09(f) & (g) | MISCELLANEOUS ROADSIDE DEVELOPMENT MATERIALS | JOB SITE or SOURCE | PLASTIC NET. | Certification-Type C Build America Certification Manufactured Product | SM9003 SM1005 (attach Build America certification(s) in SM) | AV9003 AV1005 (attach Build America certification(s) in AWP) |
| 44 | 02 of 03 | 914.09(b) | MISCELLANEOUS ROADSIDE DEVELOPMENT MATERIALS TEMP. ONLY | JOB SITE or SOURCE | TEMPORARY STAPLES | Visual Inspection | No Sample ID required. | No Sample ID required. |
| 44 | 03 of 03 | 914.09(b) | MISCELLANEOUS ROADSIDE DEVELOPMENT MATERIALS TEMP. ONLY | JOB SITE or SOURCE | TEMPORARY STAKES FOR BRACING AND ANCHORING | Visual Inspection | No Sample ID required. | No Sample ID required. |
| 45 | 01 of 01 | RSP 624-M-024 | HERBICIDES | CONTRACTOR CENTRAL STORAGE AREA | Visually inspect for verification of manufacturer and active ingredients. | Certification-Type B | SM9003 | AV9003 |

| REF | SUB REF. | SPEC. REF. | ITEM | JOB CONTROL LOCATION | JOB CONTROL NOTES | JOB CONTROL FREQUENCY | SM ACCEPTANCE TEMPLATES | AWP ACCEPTANCE TEMPLATES |
|-----|----------|---|--|---|--|---|--|---|
| 46 | 01 of 02 | 911.01 | LUMBER, UNTREATED (PERMANENT USE) | JOBSITE or SUPPLIER | Visually inspect for dimension and wood defects. | Visual Inspection-State Stamp or Grade Mark (One End Only) Build America Certification Construction Product | No Sample ID required. SM1005 (attach Build America certification(s) in SM) | No Sample ID required. AV1005 (attach Build America certification(s) in AWP) |
| 46 | 02 of 02 | 911.01 | LUMBER, UNTREATED (TEMPORARY USE) | JOBSITE | N/A | Visual Inspection of each item | No Sample ID required. | No Sample ID required. |
| 47 | 01 of 03 | 911.02(g) | TREATED: LUMBER, FOR RECREATIONAL APPLICATIONS ONLY | JOBSITE or CONTRACTOR YARD | Picnic tables, decking, benches, handrails, etc. and other uses where human contact will occur. Inspect for dimensions. | Certification-Type C Build America Certification Manufactured Product | SM9003 SM1005 (attach Build America certification(s) in SM) | AV9003 AV1005 (attach Build America certification(s) in AWP) |
| 47 | 02 of 03 | 911.02 | LUMBER AND TIMBER, TREATED: BRIDGE LUMBER, PILING, SAWN TIMBER POSTS AND BLOCKOUTS, ETC. (PERMANENT USE) | TREATMENT PLANT, JOBSITE or CONTRACTOR YARD | Inspect after treatment, and perform assay test. | Visually inspect each piece for species, straightness, and quality, and shall bear the quality mark of an ALSC accredited inspection agency or be certified for treatment by such an agency. Build America Certification Manufactured Product | No sample ID required. SM1005 (attach Build America certification(s) in SM) | No sample ID required. AV1005 (attach Build America certification(s) in AWP) |
| 47 | 03 of 03 | 911.02 | LUMBER AND TIMBER, TREATED (TEMPORARY USE) | TREATMENT PLANT, JOBSITE or CONTRACTOR YARD | TREATED WOOD Visually inspect each item after treatment. | Visual Inspection | No Sample ID required. | No Sample ID required. |
| 48 | 01 of 03 | 404 608 616 904.02g 718 RSP-205-R-636-205 | AGGREGATE | CAPP SOURCE | SHOULDER DRAINS, UNDERDRAINS, SEAL COATS, RIPRAP, SNOW AND ICE ABRASIVE, COARSE AGGREGATES FOR STORM WATER MANAGEMENT, AND MISCELLANEOUS USE. | Approval Number- <u>Approved CAPP Approved Source</u> | IT211 | AV9004 |
| 48 | 02 of 03 | 904 | AGGREGATE for PRECAST CONCRETE | SOURCE | Quality Test Required. | N/A | No Sample ID required. | No Sample ID required. |
| 48 | 03 of 03 | 904.02g | AGGREGATE SNOW and ICE | NON-CAPP SOURCE | One Gradation by INDOT per 1000 T. | Sample ID Number | T 27FA | T 27 |
| 49 | 01 of 01 | 910.16 | COPPER FLASHING | JOBSITE | Inspect for dimensions and/or workmanship. | Certification-Type C Build America Certification Manufactured Product | SM9003 SM1005 (attach Build America certification(s) in SM) | AV9003 AV1005 (attach Build America certification(s) in AWP) |
| 50 | 01 of 01 | 910.17 | BRONZE OR COPPER ALLOY PLATES | POINT OF DELIVERY | Inspect for dimensions and/or workmanship. | Certification-Type C Build America Certification Construction Product | SM9003 SM1005 (attach Build America certification(s) in SM) | AV9003 AV1005 (attach Build America certification(s) in AWP) |
| 51 | 01 of 01 | 913.01 | WATER | SOURCE | NON-POTABLE. Based on intended use. When source is of questionable quality for intended use, consult the DTE. <u>(NOTE: Water known to be of potable quality may be used without testing.)</u> | Certification - Type A | SM9003 | AV9003 |
| 52 | 01 of 04 | 913.03 ITM 810 OM 22-02 | SODIUM CHLORIDE | POINT OF DELIVERY | ICE AND SNOW REMOVAL. Gradation and Moisture Control. | One 1 gal sample to be tested at least once per order placed (delivery location), regardless of tonnage. If the order exceeds 2,000 tons, one sample per 2,000 tons per order for gradation and moisture. <u>Final Assembly Manufactured Product Build America Certification</u> | T 27 and T 255 SM1005 (attach Build America certification(s) in SM) | T 27 and T 255 AV1005 (attach Build America certification(s) in AWP) |
| 52 | 02 of 04 | 913.03 ITM 810 OM 22-02 | SODIUM CHLORIDE | POINT OF DELIVERY | ICE AND SNOW REMOVAL. Purity. | One quart sample for purity per purchase order. <u>Final Assembly Manufactured Product Build America Certification</u> | M 143 SM1005 (attach Build America certification(s) in SM) | M 143 AV1005 (attach Build America certification(s) in AWP) |
| 52 | 03 of 04 | 913.02 913.03 | CALCIUM AND SODIUM CHLORIDE | POINT OF USAGE | ALL OTHER USES. | For ≤ 5 T, no sampling required. Build America Certification <u>Construction Product</u> | No Sample ID required. SM1005 (attach Build America certification(s) in SM) | No Sample ID required. AV1005 (attach Build America certification(s) in AWP) |

| REF | SUB REF. | SPEC. REF. | ITEM | JOB CONTROL LOCATION | JOB CONTROL NOTES | JOB CONTROL FREQUENCY | SM ACCEPTANCE TEMPLATES | AWP ACCEPTANCE TEMPLATES |
|-----|----------|------------------|---|----------------------|--|--|--|---|
| 52 | 04 of 04 | 913.02 913.03 | CALCIUM AND SODIUM CHLORIDE | POINT OF USAGE | ALL OTHER USES. | For > 5 T, one 1 gal sample for each 200 T per source. Build America Certification Construction Product | M 143, M 144 and T 255 SM1005 (attach Build America certification(s) in SM) | M 143, M 144 and T 255 AV1005 (attach Build America certification(s) in AWP) |
| 53 | 01 of 01 | 913.04(b) | HYDRATED LIME, QUICKLIME, AND LIME BY-PRODUCT | JOB SITE | FOR CHEMICAL MODIFICATION. One 1 lb random verification sample required per year per manufacturer as directed. | Approval Number | SM9004 | AV9004 |
| 54 | 01 of 01 | 611 | MAILBOX ASSEMBLY | JOB SITE | Visually inspect for dimensions and workmanship. | Visual Inspection Buy America Certification (steel) Build America Certification Construction Product (Other than Steel) Build America Certification Manufactured Product (Treated Lumber) | No Sample ID required. SM1004 (attach Buy America certification(s) in SM) SM1005 (attach Build America certification(s) in SM) SM1005 (attach Build America certification(s) in SM) | No Sample ID required. AV1004 (attach Buy America certification(s) in AWP) AV1005 (attach Build America certification(s) in AWP) AV1005 (attach Build America certification(s) in AWP) |
| 55 | 01 of 10 | 918.02(a) | GEOSYNTHETIC MATERIALS | JOB SITE or SOURCE | GEOTEXTILE FOR RIPRAP AND REVETMENT | Approval Number Build America Certification Construction Product (Temporary Installations do not require Build America Certifications) | SM9004 SM1005 (attach Build America certification(s) in SM) | AV9004 AV1005 (attach Build America certification(s) in AWP) |
| 55 | 02 of 10 | 918.02(b) | GEOSYNTHETIC MATERIALS | JOB SITE or SOURCE | GEOTEXTILE FOR UNDERDRAINS, SUBSURFACE DRAINS, AND FILTRATION | Approval Number Build America Certification Construction Product Temporary Installations do not require Build America Certifications | SM9004 SM1005 (attach Build America certification(s) in SM) | AV9004 AV1005 (attach Build America certification(s) in AWP) |
| 55 | 03 of 10 | 918.02(c) | GEOSYNTHETIC MATERIALS | JOB SITE or SOURCE | GEOTEXTILE FOR PAVEMENT AND SUBGRADE STABILIZATIONS. | Approval Number Build America Certification Construction Product | SM9004 SM1005 (attach Build America certification(s) in SM) | AV9004 AV1005 (attach Build America certification(s) in AWP) |
| 55 | 04 of 10 | 918.02(d) | GEOSYNTHETIC MATERIALS | JOB SITE or SOURCE | GEOTEXTILE FOR MOISTURE MANAGEMENT | Approval Number Build America Certification Construction Product | SM9004 SM1005 (attach Build America certification(s) in SM) | AV9004 AV1005 (attach Build America certification(s) in AWP) |
| 55 | 05 of 10 | 918.02(e) | GEOSYNTHETIC MATERIALS | JOB SITE or SOURCE | SILT FENCE. Inspect for dimensions and/or workmanship | Approval Number Temporary Installations do not require Build America Certifications | SM9004 SM1005 (attach Build America certification(s) in SM) | AV9004 AV1005 (attach Build America certification(s) in AWP) |
| 55 | 06 of 10 | 918.03 | GEOSYNTHETIC MATERIALS | JOB SITE or SOURCE | GEOMEMBRANE | Approval Number Build America Certification Construction Product | SM9004 SM1005 (attach Build America certification(s) in SM) | AV9004 AV1005 (attach Build America certification(s) in AWP) |
| 55 | 07 of 10 | 918.04 | GEOSYNTHETIC MATERIALS | JOB SITE or SOURCE | GEOCELL CONFINING SYSTEM | Approval Number Build America Certification Construction Product | SM9004 SM1005 (attach Build America certification(s) in SM) | AV9004 AV1005 (attach Build America certification(s) in AWP) |
| 55 | 08 of 10 | 918.05 | GEOSYNTHETIC MATERIALS | JOB SITE or SOURCE | GEOGRID | Approval Number Build America Certification Construction Product | SM9004 SM1005 (attach Build America certification(s) in SM) | AV9004 AV1005 (attach Build America certification(s) in AWP) |
| 55 | 09 of 10 | 918.06 | FABRIC OR MEMBRANE FOR WATERPROOFING | JOB SITE | FABRIC (TREATED COTTON, WOVEN GLASS, OR GLASS FIBER MAT) FOR WATERPROOFING R.C. BOX AND 3-SIDED STRUCTURES | Certification (for Type 1)-Type C Build America Certification Construction Product | SM9003 SM1005 (attach Build America certification(s) in SM) | AV9003 AV1005 (attach Build America certification(s) in AWP) |
| 55 | 10 of 10 | 918.06 | FABRIC OR MEMBRANE FOR WATERPROOFING | JOB SITE | MEMBRANE FOR WATERPROOFING R.C. BOX AND 3-SIDED STRUCTURES | Certification (for Type 2 and Type 3)-Type B Build America Certification Manufactured Product | SM9003 SM1005 (attach Build America certification(s) in SM) | AV9003 AV1005 (attach Build America certification(s) in AWP) |

| REF | SUB REF. | SPEC. REF. | ITEM | JOB CONTROL LOCATION | JOB CONTROL NOTES | JOB CONTROL FREQUENCY | SM ACCEPTANCE TEMPLATES | AWP ACCEPTANCE TEMPLATES |
|-----|------------------------------|--------------------------------------|---|----------------------|--|---|--|---|
| 56 | 01 of 03 04 | 909.03 619.09(a) | STRUCTURAL STEEL COATING SYSTEM AND SOUND BARRIER POSTS (THREE COAT) | JOB SITE or SUPPLIER | FOR NON-WEATHERING STEEL. Coating systems must be from the Department's list of approved structural steel coating systems, and all system components must be pre-tested. | Approval Number (W-number for Coating System, and M-number for each of the three system components) Build America Certification Manufactured Product | SM9004 (W-number for the Coating System, and one M-number for each System Component Material) SM1005 (attach Build America certification(s) in SM) | AV9004 (Coating System) AV6006 (Report M-numbers for the three System Components) AV1005 (attach Build America certification(s) in AWP) |
| 56 | 02 of 03 04 | 619.11(b) 909.02(e) and 909.03 | STRUCTURAL STEEL PARTIAL PAINT SYSTEM (THREE COAT) AND FINISH COAT FOR WEATHERING STEEL COATING SYSTEM FOR WEATHERING STEEL (THREE COAT) | JOB SITE or SUPPLIER | FOR WEATHERING STEEL. (Note: Coating System is only required if shown on plans.) Coating systems must be from the Department's list of approved structural steel coating systems. For weathering steel contracts being painted as shown on standard drawing E 619-PRWS-01, the finish coat may be from any manufacturer. All system components must be pre-tested. | Approval Number (W-number for Coating System, and M-number for each of the three system components) Build America Certification Manufactured Product | SM9004 (W-number for Coating System, and M-number for each of the three system components) SM1005 (attach Build America certification(s) in AWP) | AV9004 (for each Coating Formulation) AV6006 (Report M-number for the each System Component Material) AV1005 (attach Build America certification(s) in AWP) |
| 56 | 03 of 04 | 619.09(c) 729.03 909.02(e) | SPECIAL PARTIAL COATING SYSTEM (THREE COAT) | JOB SITE OR SUPPLIER | FOR NON-WEATHERING STEEL | Approval Number (W-number for Coating System, and M-number for each of the three system components) Build America Certification Manufactured Product | SM9004 (W-number for Coating System, and M-number for each of the three system components) SM1005 (attach Build America certification(s) in AWP) | AV9004 (for each Coating Formulation) AV6006 (Report M-number for the each System Component Material) AV1005 (attach Build America certification(s) in AWP) |
| 56 | 03 of 03 04 of 04 | 619.11(b) 909.02(e) and 909.03 | STRUCTURAL STEEL PARTIAL PAINT SYSTEM AND SOUND BARRIER WALL (TWO COAT) | JOB SITE or SUPPLIER | FOR NON-WEATHERING STEEL. Coating systems must be from the Department's list of approved structural steel coating systems, and all system components must be pre-tested. Organic primer and waterborne finish coats must be from the Departments list of approved coating formulations. | Approval Number (W-number for Coating System, and M-number for each of the three two system components) Build America Certification Manufactured Product | SM9004 (W-number for Coating System, and M-number for each of the three two system components) SM1005 (attach Build America certification(s) in AWP) | AV6006 (Report M-number for the each System component Material) AV1005 (attach Build America certification(s) in AWP) |
| 57 | 01 of 02 | 715 907.01 | CONCRETE PIPE | JOB SITE | NON-REINFORCED CONCRETE PIPE. Certified Precast Concrete Producers. Marked with ACPA, NPCA or PCI B1 Product Marking, Source No., Date of Manufacture and any Std. Spec. Req. | Approval Number- Source Number | SM9004 | AV1005 (attach Build America certification(s) in AWP) |
| 57 | 02 of 02 | 715 907.02 907.03 | CONCRETE PIPE | JOB SITE | REINFORCED CONCRETE PIPE. Certified Precast Concrete Producers. Marked with ACPA, NPCA or PCI B1 Product Marking, Source No., Date of Manufacture and any Std. Spec. Req. | Approval Number- Source Number Certification - Other (Refer to 907.02) Buy America Certification | SM9004 SM9003 SM1004 (attach Buy America certification(s) in SM) | AV9004 AV9003 AV1004 (attach Buy America certification(s) in AWP) |

| REF | SUB REF. | SPEC. REF. | ITEM | JOB CONTROL LOCATION | JOB CONTROL NOTES | JOB CONTROL FREQUENCY | SM ACCEPTANCE TEMPLATES | AWP ACCEPTANCE TEMPLATES |
|-----|----------|---------------------|---|----------------------|--|---|---|--|
| 58 | 01 of 01 | 715.02(k) | PRECAST CONCRETE UNIT | SOURCE | END SECTIONS. Certified Precast Concrete Producers. Marked with ACPA, NPCA or PCI B1 Product Marking, Source No., Date of Manufacture and any Std. Spec. Req. | Approval Number- Source Number Buy America Certification | SM9004 SM1004 (attach Buy America certification(s) in SM) | AV9004 AV1004 (attach Buy America certification(s) in AWP) |
| 59 | 01 of 01 | 907.04 907.05 | PRECAST CONCRETE UNIT. | JOB SITE | MANHOLES, INLETS, CATCH BASINS, AND GRADE RINGS. REINFORCED CONCRETE STRUCTURE SECTIONS. Certified Precast Concrete Producers. Marked with ACPA, NPCA or PCI B1 Product Marking, Source No., Date of Manufacture and any Std. Spec. Req. | Approval Number- Source Number Approval Number (Manhole Steps, if necessary) Buy America Certification | SM9004 SM9004 SM1004 (attach Buy America certification(s) in SM) | AV9004 AV9004 AV1004 (attach Buy America certification(s) in AWP) |
| 60 | 01 of 04 | 731 901.10(b) | MECHANICALLY STABILIZED EARTH RETAINING WALLS | JOB SITE | MECHANICALLY STABILIZED EARTH RETAINING WALLS. Certified Precast Concrete Producers. Marked with ACPA, NPCA or PCI B1 Product Marking, Source No., Date of Manufacture and any Std. Spec. Req. | Approval Number-Precast Concrete Producer (4-digit Source #) Approval Number-Retaining Wall Systems (W#) One sample (consisting of two 4" diameter cores) per 750 panels, minimum one sample. Joint Spacer and Joint Cover Adhesive (Certification-Other) Joint Cover Material (Certification-Type C) Clevis Connector, Connector Bar, and Ground Reinforcement Galvanization Certification (Certification-Type A) Buy America Certification | SM9004 SM9004 T 24 SM9003 SM9003 SM9003 SM1004 (attach Buy America certification(s) in SM) | AV9004 AV9004 T 24 AV9003 AV9003 AV9003 AV1004 (attach Buy America certification(s) in AWP) |
| 60 | 02 of 04 | 732 | MODULAR CONCRETE BLOCKS | SOURCE | N/A | For ≤ 200 blocks, visually inspect for dimensions and workmanship. Certification-Type A (Freeze/Thaw ASTM C1372 within 12 months of delivery) | No Sample ID required. SM9003 | No Sample ID required. AV9003 |
| 60 | 03 of 04 | 732 | MODULAR CONCRETE BLOCKS | SOURCE | A lot is not more than 10,000 blocks. Verify Delivery Ticket with SiteManager or AWP remarks. | For > 200 blocks, six blocks for Compressive strength and Absorption per lot. Certification-Type A (Freeze/Thaw ASTM C1372 within 12 months of delivery) | Sample ID (Templates by M&T); assign PLN and represented quantity to Contract tab in SiteManager or AWP SM9003 | Sample ID (Templates by M&T); assign PLN and represented quantity to Contract tab in AWP AV9003 |
| 60 | 04 of 04 | 732 | MODULAR CONCRETE BLOCKS | SOURCE | Cap blocks. | Visually inspect for dimensions and workmanship. Certification-Type A (Freeze/Thaw ASTM C1372 within 12 months of delivery) | No Sample ID required. SM9003 | No Sample ID required. AV9003 |
| 61 | 01 of 01 | 907.10 | CONCRETE DRAIN TILE | SOURCE | Certified Precast Concrete Producers. | Approval Number - Source Number Buy America Certification | SM9004 SM1004 (attach Buy America certification(s) in SM) | AV9004 AV1004 (attach Buy America certification(s) in AWP) |
| 63 | 01 of 12 | 907.17(a) 907.18 | PLASTIC PIPE | JOB SITE | CORRUGATED DRAINAGE TUBING AND PERFORATED PLASTIC SEMI-CIRCULAR PIPE. Inspect for dimensions and workmanship. | Approval Number <u>Mandrel Testing</u> Build America Certification <u>Construction Product</u> | SM9004 SM9043 SM1005 (attach Build America certification(s) in SM) | AV9004 AV9043 AV1005 (attach Build America certification(s) in AWP) |

| REF | SUB REF. | SPEC. REF. | ITEM | JOB CONTROL LOCATION | JOB CONTROL NOTES | JOB CONTROL FREQUENCY | SM ACCEPTANCE TEMPLATES | AWP ACCEPTANCE TEMPLATES |
|-----|----------|--|-------------------------|----------------------|---|---|--|--|
| 63 | 02 of 12 | 907.17(b) 715.09 | PLASTIC PIPE | JOB SITE | CORRUGATED POLYETHYLENE DRAINAGE PIPE. Inspect for dimensions and workmanship. | Approval Number Mandrel Testing Build America Certification Construction Product | SM9004 SM9043 SM1005 (attach Build America certification(s) in SM) | AV9004 AV9043 AV1005 (attach Build America certification(s) in AWP) |
| 63 | 03 of 12 | 907.17(b) and 907.19 through 907.23 715.09 907.19 907.22 907.24(c) | PLASTIC PIPE | JOB SITE | PLASTIC PIPE FOR USE IN CULVERTS UNDER MAINLINE PAVEMENT AND PUBLIC ROAD APPROACHES, AND STORM SEWERS. Inspect for dimensions and workmanship. | Approval Number Mandrel Testing Build America Certification Construction Product | SM9004 SM9043 SM1005 (attach Build America certification(s) in SM) | AV9004 AV9043 AV1005 (attach Build America certification(s) in AWP) |
| 63 | 04 of 12 | 907.17(b) and 907.19 through 907.23 907.22 907.24(c) | PLASTIC PIPE | JOB SITE | PLASTIC PIPE FOR USE IN CULVERTS UNDER ALL DRIVES AND FIELD ENTRANCES. Inspect for dimensions and workmanship. | Approval Number Build America Certification Construction Product | SM9004 SM1005 (attach Build America certification(s) in SM) | AV9004 AV1005 (attach Build America certification(s) in AWP) |
| 63 | 05 of 12 | 907.24(a) 907.22, 907.24(c) 907.21, 907.24(d) 907.23, 907.24(e), 907.24(b), 907.20 | PLASTIC PIPE | JOB SITE | PSM PVC PIPE, PROFILE WALL PVC PIPE , SMOOTH WALL POLYETHYLENE PIPE , SMOOTH WALL PVC PIPE, PVC PLASTIC PIPE , SCHEDULE 40 or PROFILE WALL POLYETHYLENE PIPE . For underdrain outlets and miscellaneous applications. Inspect for dimensions and workmanship. ASTM stamp required on pipe. | Approval Number Certification - Type C Build America Certification Construction Product | SM9003 SM1005 (attach Build America certification(s) in SM) | AV9003 AV1005 (attach Build America certification(s) in AWP) |
| 63 | 06 of 12 | 907.24(b) 907.23 | PLASTIC PIPE | JOB SITE | PLASTIC UNDERDRAIN OUTLET PIPE . Schedule 40 PVC Pipe. Inspect for dimensions and workmanship. ASTM stamp required on pipe. END BENT DRAIN PIPE or PERFORATED SMOOTH WALL PVC | Certification - Type C Build America Certification Construction Product | SM9003 SM1005 (attach Build America certification(s) in SM) | AV9003 AV1005 (attach Buy America certification(s) in AWP) |
| 63 | 07 of 12 | 715.02(h) 907.17(a) 907.22 907.23 | PLASTIC PIPE | JOB SITE | END BENT DRAIN PIPE. Perforated profile wall PVC pipe, perforated smooth wall PVC pipe , or corrugated polyethylene drainage tubing Type SP. | Approval Number Build America Certification Construction Product | SM9004 SM1005 (attach Build America certification(s) in SM) | AV9004 AV1005 (attach Buy America certification(s) in AWP) |
| 63 | 08 of 12 | 908.14 | SLOTTED VANE DRAIN PIPE | JOB SITE | SMOOTH WALL PVC PIPE WITH CASTING. Component materials in accordance with 907.23 and 910.05(b), respectively. | Pipe: Approval Number Casting: Certification-Type Other Buy America Certification Build America Certification Construction Product | SM9004 SM9003 SM1004 (attach Buy America certification(s) in SM) SM1005 (attach Build America certification(s) in SM) | AV9004 AV9003 AV1004 (attach Buy America certification(s) in AWP) AV1005 (attach Buy America certification(s) in AWP) |

| REF | SUB REF. | SPEC. REF. | ITEM | JOB CONTROL LOCATION | JOB CONTROL NOTES | JOB CONTROL FREQUENCY | SM ACCEPTANCE TEMPLATES | AWP ACCEPTANCE TEMPLATES |
|-----|----------|--|---|----------------------|--|--|--|--|
| 63 | 09 of 12 | 907.25(a) 907.25(b) 907.25(c) | PIPE LINERS | JOB SITE | THERMOPLASTIC LINER PIPE, PROFILE WALL HDPE LINER PIPE , PROFILE WALL PVC LINER PIPE or SOLID WALL HDPE LINER PIPE Pipe Liners to be inspected. | Approval Number or Certification - Type A: Solid Wall HDPE Liner Pipe Type A Cert only: Profile Wall HDPE Liner Pipe and Profile Wall PVC Liner Pipe Build America Certification Construction Product | SM9004 or SM9003 SM9003 SM1005 (attach Build America certification(s) in SM) | AV9004 or AV9003 AV9003 AV1005 (attach Build America certification(s) in AWP) |
| 63 | 10 of 12 | 912.05 | FOAMING AGENT | JOB SITE | For Making Preformed Foam for Cellular Concrete Grout (CCF). | Certification - C Approval Number- Source Number Build America Certification Manufactured Product | SM9003 SM9004 SM1005 (attach Build America certification(s) in SM) | AV9003 AV9004 AV1005 (attach Build America certification(s) in AWP) |
| 63 | 11 of 12 | 907.26 | SOLVENT CEMENTS | JOB SITE | For PVC Pipe and Fittings. | Certification-Type C Build America Certification Manufactured Product | SM9003 SM1005 (attach Build America certification(s) in SM) | AV9003 AV1005 (attach Build America certification(s) in AWP) |
| 63 | 12 of 12 | 907.27 | ELASTOMERIC SEALS | JOB SITE | For Joining Plastic Pipe. | Certification-Type B Build America Certification Manufactured Product | SM9003 SM1005 (attach Build America certification(s) in SM) | AV9003 AV1005 (attach Build America certification(s) in SM) |
| 64 | 01 of 02 | 715.10 | GRATED BOX END SECTIONS | SOURCE | Certified Precast Concrete Producers. Marked with ACPA, NPCA or PCI B1 Product Marking, Source No., Date of Manufacture and any Std. Spec. Req. | Approval Number- Source Number Buy America Certification | SM9004 SM1004 (attach Buy America certification(s) in SM) | AV9004 AV1004 (attach Buy America certification(s) in AWP) |
| 64 | 02 of 02 | 910.22(b) | GRATED BOX END SECTIONS | JOB SITE | GRATING FOR GRATED BOX END SECTION. The Pipe, Tubing, Tube, and Grates for a Type II Grated Box End Section. | Certification - Type B Buy America Certification (Structural Steel Grade) Build America Certification Construction Product (Pipe, Tubing and Tube) | SM9003 SM1004 (attach Buy America certification(s) in SM) SM1005 (attach Build America certification(s) in SM) | AV9003 AV1004 (attach Buy America certification(s) in AWP) AV1005 (attach Build America certification(s) in AWP) |
| 65 | 01 of 01 | 907.13 | RUBBER TYPE GASKETS (RING) | JOB SITE | For Pipe. Inspect for dimension and/or workmanship. | Certification-Type B Build America Certification Manufactured Product | SM9003 SM1005 (attach Build America certification(s) in SM) | AV9003 AV1005 (attach Build America certification(s) in AWP) |
| 66 | 01 of 01 | 907.11(a) | PIPE JOINT SEALERS | JOB SITE | PREFORMED FLEXIBLE and BITUMINOUS MASTIC SEALANT. Inspect for dimension and/or workmanship. | Certification-Type C | SM9003 | AV9003 |
| 66 | 02 of 02 | 907.11(b) | PIPE JOINT SEALERS | JOB SITE | BITUMINOUS MASTIC SEALANT | Certification-Type A | SM9003 | AV9003 |
| 67 | 01 of 01 | 907.07 | JOINT MEMBRANE SYSTEM FOR PRECAST CONCRETE BOX CULVERTS | JOB SITE | Inspect for dimension and/or workmanship. | Certification-Type C Build America Certification Manufactured Product | SM9003 SM1005 (attach Build America certification(s) in SM) | AV9003 AV1005 (attach Build America certification(s) in AWP) |
| 68 | 01 of 01 | 907.04 | MANHOLE STEPS | SOURCE | FOR CONCRETE LIFT STATIONS. | Approval Number Buy America Certification | SM9004 SM1004 (attach Buy America certification(s) in SM) | AV9004 AV1004 (attach Buy America certification(s) in AWP) |
| 70 | 01 of 01 | 908.02 908.04 908.08 908.07 908.14 | METAL PIPE | SOURCE | CORRUGATED METAL CULVERT PIPE, PIPE ARCHES, SLOTTED DRAIN AND UNDERDRAINS. | Approval Number Buy America Certification Build America Certification Construction Product (Aluminum Alloy Only) | SM9004 SM1004 (attach Buy America certification(s) in SM) SM1005 (attach Build America certification(s) in SM) | AV9004 AV1004 (attach Buy America certification(s) in AWP) AV1005 (attach Build America certification(s) in AWP) |
| 71 | 01 of 01 | 908.06 | METAL END SECTIONS | SOURCE | One verification sample by Testing per mill per fabricator per calendar year per gauge. | External Document-Mill Report and Fabricator Certification Buy America Certification | SM1002 SM1004 (attach Buy America certification(s) in SM) | AV9003 AV1004 (attach Buy America certification(s) in AWP) |

| REF | SUB REF. | SPEC. REF. | ITEM | JOB CONTROL LOCATION | JOB CONTROL NOTES | JOB CONTROL FREQUENCY | SM ACCEPTANCE TEMPLATES | AWP ACCEPTANCE TEMPLATES |
|-----|----------|-------------------------------------|--------------------------------------|---------------------------|---|--|---|--|
| 73 | 01 of 04 | 908.09 | METAL PIPE | JOB SITE | STRUCTURAL PLATE PIPE, PIPE ARCHES, AND ARCHES. One base metal verification sample by Testing per fabricator per calendar year per guage. | External Document-Mill Report and Fabricator Certification Buy America Certification (Steel Only) Build America Certification Construction Product (Aluminum Alloy Only) | SM1002 SM1004 (attach Buy America certification(s) in SM) SM1005 (attach Build America certification(s) in SM) | AV9003 AV1004 (attach Buy America certification(s) in AWP) AV1005 (attach Build America certification(s) in AWP) |
| 73 | 02 of 04 | 908.10 | METAL PIPE | JOB SITE | CAST IRON SOIL PIPE. For bridge drains. Field check for dimensions and weight. | Visual Inspection Buy America Certification | No Sample ID required. SM1004 (attach Buy America certification(s) in SM) | No Sample ID required. AV1004 (attach Buy America certification(s) in AWP) |
| 73 | 03 of 04 | 907.28 | REINFORCED THERMOSETTING RESIN PIPE | JOB SITE | FIBERGLASS PIPE FOR BRIDGE DRAINAGE SYSTEMS. Inspect for dimensions and workmanship. | Certification-Type A Build America Certification Construction Product | SM9003 SM1005 (attach Build America certification(s) in SM) | AV9003 AV1005 (attach Build America certification(s) in AWP) |
| 73 | 04 of 04 | 910.07 908.11 | STEEL PIPE | JOB SITE | Inspect for dimensions and workmanship. | Certification-Type C Buy America Certification | SM9003 SM1004 (attach Buy America certification(s) in SM) | AV9003 AV1004 (attach Buy America certification(s) in AWP) |
| 74 | 01 of 03 | 905.02 or 905.03 | BRICKS AND BLOCKS | JOB SITE or SOURCE | BRICK AND BLOCK. | For lots ≤ 200 units, visually inspect for dimensions and workmanship | No Sample ID required. | No Sample ID required. |
| 74 | 01 of 02 | 905.02 or 905.03 | BRICKS AND BLOCKS | JOB SITE or SOURCE | BRICK AND BLOCK. Verify Delivery Ticket with SiteManager or AWP remarks: | For lots of 201 to 1500 units, one sample (6 units). For compressive strength and absorption Certification, Type C | Sample ID (Templates by M&T); assign PLN and represented quantity to Contract tab in SiteManager or AWP SM9003 | Sample ID (Templates by M&T); assign PLN and represented quantity to Contract tab in AWP AV9003 |
| 74 | 02 of 02 | 905.02 or 905.03 USP in Contract | BRICKS AND BLOCKS | JOB SITE or SOURCE | BRICK AND BLOCK. Verify Delivery Ticket with SiteManager or AWP remarks: PAVER BRICKS | Approval Number - Sample ID from M&T Testing For lots > 1500 units, 10 units for each lot of 100,000 except for lots of more than 500,000 units, five units shall be taken from every 100,000 units. Selected from a Source Shown in the Contract Documents. Certification, Other | SM9004 - Sample ID SM9003 | AV9004 - Sample ID AV9003 |
| 75 | 01 of 01 | 904.04(e) | PRECAST RIPRAP | SOURCE | Certified Precast Concrete Producers. | Approval Number- Source Number | SM9004 | AV9004 |
| 76 | 01 of 02 | 600 (numerous subsections apply) | PRECAST CONCRETE UNITS | SOURCE | PRECAST PARKING BARRIERS, PRECAST CONCRETE CURBING, BENCH-MARK POSTS, CABLE MARKERS, AND MONUMENTS. Certified Precast Concrete Producers. | Approval Number- Source Number Buy America Certification | SM9004 SM1004 (attach Buy America certification(s) in SM) | AV9004 AV1004 (attach Buy America certification(s) in AWP) |
| 76 | 02 of 02 | 615.03 | RIGHT-OF-WAY MARKERS | SOURCE | RIGHT-OF-WAY MARKERS. (Visually inspect for markings) | Certification-Type C Buy America Certification Approval Number - Source Number | SM9003 SM1004 (attach Buy America certification(s) in SM) SM9004 | AV9003 AV1004 (attach Buy America certification(s) in AWP) AV9004 |
| 77 | 01 of 01 | 905.06 | PRECAST CONCRETE UNITS | SOURCE | OTHER CONCRETE ITEMS. | Visual Inspection Buy America Certification Approval Number - Source Number | No Sample ID required. SM1004 (attach Buy America certification(s) in SM) SM9004 | No Sample ID required. AV1004 (attach Buy America certification(s) in AWP) AV9004 |
| 78 | 01 of 02 | 602.03(a) | PRECAST MEDIAN BARRIERS | SOURCE | PERMANENT. Certified Precast Concrete Producers. | Approval Number- Source Number Buy America Certification | SM9004 SM1004 (attach Buy America certification(s) in SM) | AV9004 AV1004 (attach Buy America certification(s) in AWP) |
| 78 | 02 of 02 | 602.03(a) | PRECAST MEDIAN BARRIERS | SOURCE | PERMANENT. Strength (2 cylinders) per 100 units and Absorption (2 cores for wet cast only) per 50 units. | Certification-Type A Approval Number - Source Number Buy America Certification | SM9003 SM9004 SM1004 (attach Buy America certification(s) in SM) | AV9003 AV9004 AV1004 (attach Buy America certification(s) in AWP) |
| 79 | 01 of 03 | 801.10 | TEMPORARY TRAFFIC BARRIERS (PRECAST) | ANY LOCATION PRIOR TO USE | CONCRETE. Produced after March 1, 2003 and prior to January 1, 2007 | Visual Inspection based on required markings and condition. | No Sample ID required. | No Sample ID required. |

| REF | SUB REF. | SPEC. REF. | ITEM | JOB CONTROL LOCATION | JOB CONTROL NOTES | JOB CONTROL FREQUENCY | SM ACCEPTANCE TEMPLATES | AWP ACCEPTANCE TEMPLATES |
|-----|----------|--------------------|---|---------------------------|---|--|--|---|
| 79 | 02 of 03 | 801.10 | TEMPORARY TRAFFIC BARRIERS (PRECAST) | ANY LOCATION PRIOR TO USE | CONCRETE. Produced January 1, 2007 or thereafter. Certified Precast Concrete Producers. | Approval Number- Source Number | SM9004 | AV9004 |
| 79 | 03 of 03 | 801.10 | TEMPORARY TRAFFIC BARRIERS (TEMPORARY - FHWA APPROVED) | ANY LOCATION PRIOR TO USE | TYPE 2 TRAFFIC BARRIER - OTHER THAN PRECAST CONCRETE - FHWA APPROVED. | External Document (Manufacturer's FHWA eligibility letter stating NCHRP 350 or MASH TL-2 or TL-3 Compliance) | SM1002 | AV9003 |
| 80 | 01 of 06 | 707.02 | PRECAST PRESTRESSED CONCRETE MEMBERS | PRODUCER | Amount poured per bed/per day: Less than 20 CYS = 2 sets of tests 20 CYS to 60 CYS = 3 sets of tests More than 60 CYS = 4 sets of tests 1 set of tests =One slump/flow test, one air test and two cylinders(1 for Detentioning, 1 for 28 day strength) | Approval Number-Sample ID number by Structural Fabrication Supervisor 1 set of tests =One slump/flow test, one air test and cylinders as follows: For 6 in x 12 in: 4 cylinders (2 for detentioning, 2 for 28-day strength) For 4 in x 12 in: 6 cylinders (3 for detentioning, 3 for 28-day strength) | SM7005 T119 T152 T22 | AV7005 T119 T152 T22 |
| 80 | 02 of 06 | 707.02 | PRECAST CONCRETE STRUCTURAL MEMBERS (NOT PRESTRESSED) | PRODUCER | Amount poured per bed/per day: Less than 20 CYS = 2 sets of tests 20 CYS to 60 CYS = 3 sets of tests More than 60 CYS = 4 sets of tests 1 set of tests =One slump/flow test, one air test and one cylinders | Approval Number-Sample ID number by Structural Fabrication Supervisor 1 set of tests =One slump/flow test, one air test and cylinders as follows: For 6 in x 12 in: 2 cylinders for 28-day strength For 4 in x 12 in: 3 cylinders 28-day strength | SM7005 T119 T152 T22 | AV7005 T119 T152 T22 |
| 80 | 03 of 06 | 707.02 | PRECAST PRESTRESSED CONCRETE MEMBERS | PRODUCER | AGGREGATE by Structural Fabrication Supervisor | Approval Number | SM9004 | AV9004 |
| 80 | 04 of 06 | 707.02 | PRECAST PRESTRESSED CONCRETE MEMBERS | PRODUCER | CEMENT by Structural Fabrication Supervisor | Approval Number | SM9004 | AV9004 |
| 80 | 05 of 06 | 707.02 | PRECAST/PRESTRESSED CONCRETE MEMBERS | PRODUCER | REINFORCING STEEL by Structural Fabrication Supervisor: One random verification sample required per year per manufacturer as directed. One 5 ft sample for each 15 T of each size and deformation. | Approval Number Buy America Certification | SM9004 SM1004 (attach Buy America certification(s) in SM) | AV9004 AV1004 (attach Buy America certification(s) in AWP) |
| 80 | 06 of 06 | 707.02 | PRECAST/PRESTRESSED CONCRETE MEMBERS | PRODUCER | STRAND (Prestressed beams only) by Structural Fabrication Supervisor. | Certification-Type A and verification/receipt of Buy America Certification | SM9003 SM1004 (attach Buy America certification(s) in SM) | AV9003 AV1004 (attach Buy America certification(s) in AWP) |
| 81 | 01 of 06 | 910.14a 910.14e | POLES AND POSTS | JOBSITE or SUPPLIER | SIGN POSTS (STEEL). Inspect for dimensions and workmanship. | Certification-Type B Buy America Certification | SM9003 SM1004 (attach Buy America certification(s) in SM) | AV9003 AV1004 (attach Buy America certification(s) in AWP) |
| 81 | 02 of 06 | 910.14b | POLES AND POSTS | JOBSITE or SUPPLIER | SIGN POSTS (STEEL). Inspect for dimensions and workmanship. | Buy America Certification | SM1004 (attach Buy America certification(s) in SM) | AV1004 (attach Buy America certification(s) in AWP) |

| REF | SUB REF. | SPEC. REF. | ITEM | JOB CONTROL LOCATION | JOB CONTROL NOTES | JOB CONTROL FREQUENCY | SM ACCEPTANCE TEMPLATES | AWP ACCEPTANCE TEMPLATES |
|-----|----------|--|--|----------------------|---|---|--|--|
| 81 | 03 of 06 | 910.02 910.14c 910.14d 922.10 | POLES, POSTS AND ANCHOR BOLTS | JOBSITE or SUPPLIER | STRUCTURAL STEEL AND STRUCTURAL ALUMINUM. Inspect for dimensions and workmanship. | Certification-Type C Buy America Certification (For Steel) Build America Certification Construction Product (For Aluminum) Mill Report with Summary Test Report Letter | SM9003 SM1004 (attach Buy America certification(s) in SM) SM1005 (attach Build America certification(s) in SM) SM1002 | AV9003 AV1004 (attach Buy America certification(s) in AWP) AV1005 (attach Build America certification(s) in AWP) AV9003 |
| 81 | 04 of 06 | 910.15 | POLES AND POSTS | JOBSITE or SUPPLIER | DELINEATOR POSTS (METAL). | Certification - Type B Buy America Certification | SM9003 SM1004 (attach Buy America certification(s) in SM) | AV9003 AV1004 (attach Buy America certification(s) in AWP) |
| 81 | 05 of 06 | 910.15 | POLES AND POSTS TEMP. ONLY | JOBSITE or SUPPLIER | DELINEATOR POSTS (METAL) | Visual Inspection | No Sample ID required. | No Sample ID required. |
| 81 | 06 of 06 | 926 | POLES AND POSTS | JOBSITE or SUPPLIER | DELINEATOR POSTS (PLASTIC). | Approval Number Build America Certification Construction Product | SM9004 SM1005 (attach Build America certification(s) in SM) | AV9004 AV1005 (attach Build America certification(s) in AWP) |
| 82 | 01 of 01 | 910.19 | OVERHEAD SIGN STRUCTURES | JOBSITE | ALUMINUM OR STEEL. Inspect for dimensions and workmanship. | Certification-Type C Buy America Certification (For Steel) Build America Certification Construction Product (For Aluminum) | SM9003 SM1004 (attach Buy America certification(s) in SM) SM1005 (attach Build America certification(s) in SM) | AV9003 AV1004 (attach Buy America certification(s) in AWP) AV1005 (attach Build America certification(s) in AWP) |
| 83 | 01 of 02 | 920.01d | HIGHWAY ILLUMINATION MATERIALS | JOBSITE | LUMINAIRES (Underpass, Roadway, and High Mast) Inspect for dimensions and workmanship. | Certification-Type C (For contracts let prior to 9/1/2017) Approval Number-W# (For contracts let on or after 9/1/2017) Build America Certification Manufactured Product | SM9003 SM9004 SM1005 (attach Build America certification(s) in SM) | AV9003 AV9004 AV1005 (attach Build America certification(s) in AWP) |
| 83 | 02 of 02 | 920 | HIGHWAY ILLUMINATION MATERIALS | JOBSITE | LIGHTING STANDARDS AND MAST ARMS, HIGH MAST STANDARDS, WIRE AND CABLE, ANCHOR BOLTS, ETC. Inspect for dimensions and workmanship. | Certification-Type C Buy America Certification Build America Certification Construction Product Certified Mill Reports | SM9003 SM1004 (attach Buy America certification(s) in SM) SM1005 (attach Build America certification(s) in SM) SM1002 | AV9003 AV1004 (attach Buy America certification(s) in AWP) AV1005 (attach Build America certification(s) in AWP) AV9003 |
| 84 | 01 of 03 | 919 (various subsections) | TRAFFIC SIGNS | JOBSITE | SHEET SIGNS, PANEL SIGNS, FLEXIBLE ROLL-UP PRISMATIC REFLECTIVE SIGNS, LETTERS, NUMERALS, SYMBOLS, AND ACCESSORIES. Inspect for dimensions and workmanship. | Certification-Type C Build America Certification Construction Product | SM9003 SM1005 (attach Build America certification(s) in SM) | AV9003 AV1005 (attach Build America certification(s) in AWP) |
| 84 | 02 of 03 | 919.01(b)1 | TRAFFIC SIGNS | JOBSITE | REFLECTIVE SHEETING. | Approval Number Build America Certification Manufactured Product | SM9004 SM1005 (attach Build America certification(s) in SM) | AV9004 AV1005 (attach Build America certification(s) in AWP) |
| 84 | 03 of 03 | | TRAFFIC SIGNS TEMP. ONLY | JOBSITE | ALL TYPES EXCEPT NON-GROUND MOUNTED SIGNS. | Visual Inspection-per ATSSA Quality Guidelines | No Sample ID required. | No Sample ID required. |
| 85 | 01 of 02 | 801.04 | CONSTRUCTION SIGNS | JOBSITE | Visually inspect for dimensions and workmanship. | Visual Inspection-per ATSSA Quality Guidelines | No Sample ID required. | No Sample ID required. |
| 85 | 02 of 02 | 801.02 | CONSTRUCTION TEMPORARY SPEED FEEDBACK ASSEMBLY | JOBSITE | Visually inspect that the unit functions as intended. | Visual Inspection-per ATSSA Quality Guidelines | No Sample ID required. | No Sample ID required. |
| 86 | 01 of 01 | 923.03 | CONSTRUCTION WARNING LIGHTS | JOBSITE | Check brightness. | Visual Inspection | No Sample ID required. | No Sample ID required. |

| REF | SUB REF. | SPEC. REF. | ITEM | JOB CONTROL LOCATION | JOB CONTROL NOTES | JOB CONTROL FREQUENCY | SM ACCEPTANCE TEMPLATES | AWP ACCEPTANCE TEMPLATES |
|-----|-----------------------------------|--|--|----------------------|--|---|--|---|
| 87 | 01 of 05 | 922.02 922.03 922.04(a) 922.12 922.13 925 | TRAFFIC SIGNAL EQUIPMENT TRAFFIC SIGNAL and ITS DEVICES | JOB SITE and LAB | TRAFFIC SIGNAL CONTROLLER, INTERCONNECT EQUIPMENT, LED SIGNAL HEAD AND PEDESTRIAN SIGNAL HEAD COMPONENTS, EXTERNAL TIME CLOCKS, VEHICLE DETECTION SYSTEMS. | Approval Number (External Document shall be submitted with approval numbers listed for each component when applicable) Certification - Type C Build America Certification Manufactured Product | SM9004 (for each component) SM1002 SM9003 SM1005 (attach Build America certification(s) in SM) | AV9004 (for each component) AV9003 AV9003 AV1005 (attach Build America certification(s) in AWP) |
| 87 | 02 of 05 | 922.04(b) | TRAFFIC SIGNAL EQUIPMENT TRAFFIC SIGNAL and ITS DEVICES | JOB SITE | PEDESTRIAN PUSH BUTTON (APS and Non-APS) | Approval Number Certification - Type D Build America Certification Manufactured Product | SM9004 SM9003 SM1005 (attach Build America certification(s) in SM) | AV9004 AV9003 AV1005 (attach Build America certification(s) in AWP) |
| 87 | 03 of 05 | 801.15(d)1 | TRAFFIC SIGNAL EQUIPMENT TEMP. ONLY | SOURCE | FIXED TEMPORARY SIGNAL. For new or used controllers, select from Approved Traffic Signal and ITS Control Equipment. | Approval Number | SM9004 | AV9004 |
| 87 | 04 of 05 | 801.15(d)2 | TRAFFIC SIGNAL EQUIPMENT TEMP. ONLY | SOURCE | PORTRABLE TEMPORARY SIGNAL. Selected from Approved Portable Signals | Approval Number | SM9004 | AV9004 |
| 87 | 05 of 05 | 104.42 44 809-T- XXX | ITS DEVICE MAINTENANCE | JOB SITE | ITS Technology Technician Supervisor or Traffic Signal Supervisor | Visual Inspection & Acceptance | No Sample ID Required | No Sample ID Required |
| 89 | 01 of 02 | 805.02 922.17(a) | TRAFFIC SIGNAL HANHOLE | SOURCE | CONCRETE. Certified Precast Concrete Producers. | Approval Number-Source Number Buy America Certification | SM9004 SM1004 (attach Buy America certification(s) in SM) | AV9004 AV1004 (attach Buy America certification(s) in AWP) |
| 89 | 02 of 02 | 805.02 922.17(b) | TRAFFIC SIGNAL HANHOLE AND COVER | JOB SITE | POLYMER CONCRETE. | Certification-Type C Buy America Certification | SM9003 SM1004 (attach Buy America certification(s) in SM) | AV9003 AV1004 (attach Buy America certification(s) in AWP) |
| 90 | 01 of 01 | 922.08 (References 910.05b) | TRAFFIC SIGNAL EQUIPMENT | JOB SITE | TRAFFIC SIGNAL HANHOLE RING. Inspect for dimensions and workmanship. | Certification-Type C | SM9003 | AV9003 |
| 91 | 01 of 01 | 926.02(a) | ACRYLIC PLASTIC DELINEATORS | JOB SITE | | Approval Number Build America Certification Construction Product | SM9004 SM1005 (attach Build America certification(s) in SM) | AV9004 AV1005 (attach Build America certification(s) in AWP) |
| 92 | 01 of 01 | 926.02(b) | REFLECTIVE SHEETING DELINEATOR | JOB SITE | Inspect for dimensions and workmanship. | Certification-Type C Build America Certification Construction Product | SM9003 SM1005 (attach Build America certification(s) in SM) | AV9003 AV1005 (attach Build America certification(s) in AWP) |
| 93 | 01 of 01 | 926.02(c) | BARRIER DELINEATOR | JOB SITE | | Approval Number Build America Certification Construction Product | SM9004 SM1005 (attach Build America certification(s) in SM) | AV9004 AV1005 (attach Build America certification(s) in AWP) |
| 94 | 01 of 12 ¹¹ | 909.05 | PAVEMENT MARKINGS (TEMPORARY) | JOB SITE | TRAFFIC PAINT | Visual Inspection | No Sample ID Required | No Sample ID Required |
| 94 | 02 of 12 ¹¹ | 909.02 909.05 ITM 931 808.07 | PAVEMENT MARKINGS | JOB SITE or SUPPLIER | TRAFFIC PAINT: for permanent markings. | Certification - Other (Environmental Properties per 808.02) Longitudinal Lines \geq 50,000 Linear Feet (total for all painted marking lines per contract); Template required for exception or retroreflectometer testing. Build America Certification Manufactured Product | SM9003 IT931 SM1005 (attach Build America certification(s) in SM) | AV9003 ITM 931 AV1005 (attach Build America certification(s) in AWP) |
| 94 | 03 of 12 ¹¹ | 921.02(a) ITM 931 808.07 | PAVEMENT MARKINGS | JOB SITE | THERMOPLASTIC. | Certification - Type C Longitudinal Lines \geq 10,000 Linear Feet (total for all thermoplastic type marking lines per contract); Template required for exception or retroreflectometer testing. Build America Certification Manufactured Product | SM9003 IT931 SM1005 (attach Build America certification(s) in SM) | AV9003 ITM 931 AV1005 (attach Build America certification(s) in AWP) |

| REF | SUB REF. | SPEC. REF. | ITEM | JOB CONTROL LOCATION | JOB CONTROL NOTES | JOB CONTROL FREQUENCY | SM ACCEPTANCE TEMPLATES | AWP ACCEPTANCE TEMPLATES |
|-----|----------------|---|---------------------------------------|----------------------|--|---|--|---|
| 94 | 04 of 12-11 | 808.07 921.02(b) ITM 931 808-T-xxx | PAVEMENT MARKINGS | JOB SITE | PREFORMED PLASTIC. | Approval Number Longitudinal Lines \geq 10,000 Linear Feet (total for all preformed plastic type marking lines per contract); Template required for exception or retroreflectometer testing. Build America Certification Manufactured Product | SM9004 IT931 SM1005 (attach Build America certification(s) in SM) | AV9004 ITM 931 AV1005 (attach Build America certification(s) in AWP) |
| 94 | 05 of 12-11 | 921.02(b) | PAVEMENT MARKINGS (TEMPORARY) | JOB SITE | PREFORMED PLASTIC. | Visual Inspection | No Sample ID required. | No Sample ID required. |
| 94 | 06 of 12 | 921.02(a) 921.02(b) 808-T-xxx | PAVEMENT MARKINGS (SPECIAL MARKINGS) | JOB SITE | THERMOPLASTIC AND PRE-FORMED PLASTIC PAVEMENT MARKING MATERIALS. Transverse markings, Stop Bars, Pavement Message Markings, Railroad Markings, Bicycle Markings etc. | Approval Number Build America Certification Manufactured Product | SM9004 SM1005 (attach Build America certification(s) in SM) | AV9004 AV1005 (attach Build America certification(s) in AWP) |
| 94 | 06 07 of 12-11 | 921.02(c) ITM 931 | PAVEMENT MARKINGS PERM. ONLY | JOB SITE | MULTI COMPONENT | Certification - Type C Longitudinal Lines \geq 10,000 Linear Feet (total for all multi-component type marking lines per contract); Template required for exception or retroreflectometer testing. Build America Certification Manufactured Product | SM9003 IT931 SM1005 (attach Build America certification(s) in SM) | AV9003 ITM 931 AV1005 (attach Build America certification(s) in AWP) |
| 94 | 07 08 of 12-11 | 923.01 | PAVEMENT MARKINGS TEMP. ONLY | JOB SITE and SOURCE | TEMPORARY PAVEMENT MARKING TAPE, TYPE I. (Removable) | Approval Number | SM9004 | AV9004 |
| 94 | 08 09 of 12-11 | 921.02 (e) | PAVEMENT MARKINGS TEMP. ONLY | POINT OF DELIVERY | BEADS. | Visual Inspection | No Sample ID required. | No Sample ID required. |
| 94 | 09 10 of 12-11 | 921.02(e)1 921.02(e)2 921.02(e)3 | PAVEMENT MARKINGS | POINT OF DELIVERY | BEADS. Bagged. | Approval Number Build America Certification Manufactured Product (921.02(e)1 & 2) Build America Certification Construction Product (921.02(e)3) | SM9004 SM1005 (attach Build America certification(s) in SM) SM1005 (attach Build America certification(s) in SM) SM1005 (attach Build America certification(s) in SM) | AV9004 AV1005 (attach Build America certification(s) in AWP) AV1005 (attach Build America certification(s) in AWP) AV1005 (attach Build America certification(s) in AWP) |
| 94 | 10 11 of 12-11 | 921.02(e)1 921.02(e)2 921.02(e)3 | PAVEMENT MARKINGS | POINT OF DELIVERY | BEADS. Bulk. One quart from each of three randomly selected bulk containers when sampling is required by QPA. | Approval Number Build America Certification Manufactured Product (921.02(e)1 & 2) Build America Certification Construction Product (921.02(e)3) | SM9004 SM1005 (attach Build America certification(s) in SM) SM1005 (attach Build America certification(s) in SM) SM1005 (attach Build America certification(s) in SM) | AV9004 AV1005 (attach Build America certification(s) in AWP) AV1005 (attach Build America certification(s) in AWP) AV1005 (attach Build America certification(s) in AWP) |
| 94 | 11 12 of 12-11 | 921.02(e)4 | PAVEMENT MARKINGS | JOB SITE | SUPPLEMENTAL ELEMENTS Wet Reflective Optics (wet weather retro-reflective) | Approval Number - W# (6 digit) Build America Certification Manufactured Product | SM9004 SM1005 (attach Build America certification(s) in SM) | AV9004 AV1005 (attach Build America certification(s) in AWP) |
| 95 | 01 of 01 | 921.02(d) | SNOWPLOWABLE RAISED PAVEMENT MARKERS | JOB SITE | Inspect for dimensions and workmanship. | Approval Number - Prismatic Reflectors and Cast Metal Base Certification for Epoxy Adhesive - Type B Buy America Certification - Cast Metal Base Build America Certification Manufactured Product | SM9004 SM9003 SM1004 (attach Buy America certification (s) in SM) or SM1005 (attach Build America certification(s) in SM) | AV9004 AV9003 AV1004 (attach Buy America certification(s) in AWP) or AV1005 (attach Build America certification(s) in AWP) |
| 96 | 01 of 01 | 923.02 | TEMPORARY RAISED PAVEMENT MARKERS | JOB SITE | GRADES 1 AND 2. From Departments List of Approved Temporary Raised Pavement Markings. | Approval Number - W# (6 digit) | SM9004 | AV9004 |
| 97 | 01 of 02 | 923.04(b) 923.04(c) 923.08 | FLASHING ARROW SIGN | JOB SITE | Visually inspect for dimensions and workmanship. | Visual Inspection-per ATSSA Quality Guidelines | No Sample ID required. | No Sample ID required. |
| 97 | 02 of 02 | 923.04(a) 923.05 | SOLAR POWERED TRAFFIC CONTROL DEVICES | JOB SITE | Flashing Arrow Sign, Portable Changeable Message Sign | Approval Number | SM9004 | AV9004 |

| REF | SUB REF. | SPEC. REF. | ITEM | JOB CONTROL LOCATION | JOB CONTROL NOTES | JOB CONTROL FREQUENCY | SM ACCEPTANCE TEMPLATES | AWP ACCEPTANCE TEMPLATES |
|-----------------------|----------|------------------------|------------------------------|------------------------|---|--|--|---|
| 98 | 01 of 01 | 801.07 | STANDARD BARRICADES | JOB SITE | Visually inspect for dimensions and workmanship. | Visual Inspection-per ATSSA Quality Guidelines | No Sample ID required. | No Sample ID required. |
| 99 | 01 of 01 | 910.02 | STEEL STRUCTURES | JOB SITE or SOURCE | STRUCTURAL STEEL. Inspect for dimensions and workmanship. | External Document-Mill Test Report with Summary Test Results Letter Buy America Certification | SM1002 SM1004 (attach Buy America certification(s) in SM) | AV9003 AV1004 (attach Buy America certification(s) in AWP) |
| 100 | 01 of 02 | 910.02(g) | STEEL STRUCTURES | ANY LOCATION | HIGH STRENGTH BOLTS, NUTS, AND WASHERS. Two bolts, two washers and two nuts from each heat number for each size. | Test Results Certification - Other (in accordance with 910.02(g)2.d) that includes test report information, results and statements in accordance with ASTM F3125 Buy America Certification | Sample ID (Templates by M&T) SM9003 SM1004 (attach Buy America certification(s) in SM) | Sample ID (Templates by M&T) AV9003 AV1004 (attach Buy America certification(s) in AWP) |
| 100 | 02 of 02 | 910.02(g) | STEEL STRUCTURES | ANY LOCATION | HIGH STRENGTH BOLTS, NUTS, AND WASHERS. For diaphragm connections on prestressed concrete beams. | External Documents-Rotational Capacity, Mill Report and Galvanization when applicable (Attach Documents) Buy America Certification | SM1002 SM1004 (attach Buy America certification(s) in SM) | AV9003 AV1004 (attach Buy America certification(s) in AWP) |
| 101 | 01 of 01 | 910.02(h) | STEEL STRUCTURES | JOB SITE | BOLTS OTHER THAN HIGH STRENGTH. Inspect for dimensions and workmanship. | Certification-Type C Buy America Certification | SM9003 SM1004 (attach Buy America certification(s) in SM) | AV9003 AV1004 (attach Buy America certification(s) in AWP) |
| 102 | 01 of 01 | 910.03 | PERMANENT METAL FORMS | JOB SITE or FABRICATOR | PANEL, ACCESSORIES and CLIPS: One verification sample by Testing per mill per fabricator per calendar year per gauge. | Certification-Type A Buy America Certification | SM9003 SM1004 (attach Buy America certification(s) in SM) | AV9003 AV1004 (attach Buy America certification(s) in AWP) |
| 102 REMOVE SUBSECTION | 02 of 03 | 910.03 | PERMANENT METAL FORMS | JOB SITE or FABRICATOR | ACCESSORIES: One verification sample by Testing per mill per fabricator per calendar year per gauge. | Certification-Type A Buy America Certification | SM9003 SM1004 (attach Buy America certification(s) in SM) | AV9003 AV1004 (attach Buy America certification(s) in AWP) |
| 102 REMOVE SUBSECTION | 03 of 03 | 910.03 | PERMANENT METAL FORMS | JOB SITE or FABRICATOR | CLIPS: One verification sample by Testing per mill per fabricator per calendar year. | Certification-Type A Buy America Certification | SM9003 SM1004 (attach Buy America certification(s) in SM) | AV9003 AV1004 (attach Buy America certification(s) in AWP) |
| 103 | 01 of 01 | 910.04 | STEEL FORGINGS AND SHAFTINGS | JOB SITE | Inspect for dimensions and workmanship. | External Document-Mill Test Report Buy America Certification | SM1002 SM1004 (attach Buy America certification(s) in SM) | AV9003 AV1004 (attach Buy America certification(s) in AWP) |
| 104 | 01 of 02 | 910.05(a) 910.05(b) | CASTING (STEEL AND IRON) | JOB SITE | Inspect for dimensions and workmanship. | Certification-Other (Certified Inspection Report) Buy America Certification | SM9003 SM1004 (attach Buy America certification(s) in SM) | AV9003 AV1004 (attach Buy America certification(s) in AWP) |
| 104 | 02 of 02 | 615.04 | STEEL PIN | JOB SITE | Inspect for dimensions and workmanship. (Steel Pin 1" x 5") | Buy America Certification | SM1004 (attach Buy America certification(s) in SM) | AV1004 (attach Buy America certification(s) in AWP) |
| 105 | 01 of 01 | 910.06a | BRONZE CASTINGS | JOB SITE | Inspect for dimensions and workmanship. | Certification-Type A Build America Certification Construction Product | SM9003 SM1005 (attach Build America certification(s) in SM) | AV9003 AV1005 (attach Build America certification(s) in AWP) |
| 106 | 01 of 01 | | SHEET LEAD AND ZINC | JOB SITE | Sample when directed. | Visual Inspection | No Sample ID required. | No Sample ID required. |
| 107 | 01 of 01 | 711.33 | STEEL STRUCTURES | JOB SITE | STUD SHEAR CONNECTORS. Inspect for dimensions and workmanship. | External Document-Mill Test Report with Summary Test Results Letter Buy America Certification Certification - Type A | SM1002 SM1004 (attach Buy America certification(s) in SM) SM9003 | AV9003 AV1004 (attach Buy America certification(s) in AWP) AV9003 |

| REF | SUB REF. | SPEC. REF. | ITEM | JOB CONTROL LOCATION | JOB CONTROL NOTES | JOB CONTROL FREQUENCY | SM ACCEPTANCE TEMPLATES | AWP ACCEPTANCE TEMPLATES |
|-----|----------|-------------------------------|--------------------------------|----------------------|---|--|---|---|
| 108 | 01 of 04 | 707.09 714.06(b) 723.11 | GROUT | JOB SITE | PRE-PACKAGED. Non-shrink in accordance with ASTM C1107. For precast members and box culverts. | Certification-Type C | SM9003 | AV9003 |
| 108 | 02 of 04 | 714.06(b) 723.11 | GROUT | JOB SITE | CONVENTIONAL FINE. In accordance with ASTM C476. For box culverts. | Air Content, One per Structure | T 152 | T 152 |
| 108 | 03 of 04 | 714.06(b) 723.11 | GROUT | JOB SITE | SELF-CONSOLIDATING FINE. In accordance with ASTM C476. For box culverts. | Air Content, One per Structure Slump Flow, One per Structure Visual Stability Index, One per Structure | T 152 (Note in remarks. Tests in accordance with ASTM C476.) | T 152 (Note in remarks. Tests in accordance with ASTM C476.) |
| 108 | 04 of 04 | 204.02 701.02 913.06 | BENTONITE CHIPS AND POWDER | JOB SITE | WHEN USED TO MAKE BENTONITE - CEMENT GROUT | Certification -Type C | SM9003 | AV9003 |
| 109 | 01 of 01 | 901.06 | SEALER HEALER (LATEX OVERLAYS) | JOB SITE | FOR SHRINKAGE CRACK REPAIR AS DIRECTED. One 1 qt random verification sample required per year per manufacturer as directed. | Approval Number Build America Certification Manufactured Product | SM9004 SM1005 (attach Build America certification(s) in SM) | AV9004 AV1005 (attach Build America certification(s) in AWP) |
| 110 | 01 of 05 | 213.03(a) | FLOWABLE BACKFILL | JOB SITE | STANDARD FLOWABLE BACKFILL MIX DESIGN APPROVAL. Batch proportioning as specified for Removable, Type 4-1 or Type 4-2, or Non-Removable, Type 5-1 or 5-2. Minimum 150 lb/cu yd of fly ash is required if placed around pipe. The Contractor is responsible for verifying flowable backfill meets performance and mix criteria. | N/A | No Sample ID required. | No Sample ID required. |
| 110 | 02 of 05 | 213.03(b) | FLOWABLE BACKFILL | JOB SITE | CONTRACTOR-DESIGNED MIX DESIGN APPROVAL. Trial Batch Required: One flow consistency, one lightweight dynamic cone penetration test, and one dry unit weight test. Minimum 150 lb/cu yd of fly ash is required if placed around pipe. | N/A | No Sample ID required. | No Sample ID required. |
| 110 | 03 of 05 | 213 | FLOWABLE BACKFILL | JOB SITE | FIELD APPLICATION Approved mix design required. | Visual (For PLN quantity \leq 100 cyd). | No Sample ID required. | No Sample ID required. |
| 110 | 04 of 05 | 213 | FLOWABLE BACKFILL | JOB SITE | FIELD APPLICATION Approved mix design required. | Yield (using 1/4 cu. yd. box) 1/100 cyd, if using continuous mixer. | SM7009 | AV7009 |
| 110 | 05 of 05 | 213.07 | FLOWABLE BACKFILL | JOB SITE | FIELD APPLICATION (Application of Load). The flowable backfill shall not be subjected to load or disturbed. | Lightweight DCP (ITM 216), minimum 1 per pour location (prior to subsequent construction activity or loading). | IT216 | ITM216 |
| 111 | 01 of 02 | 216 | CELLULAR CONCRETE FILL | JOB SITE | A lot is 500 cyd placed. | Approval Number Four 3 in. by 6 in. cylinders per lot for compressive strength. | SM9004 C495 | AV9004 C495 |
| 111 | 02 of 02 | 216 | CELLULAR CONCRETE FILL | JOB SITE | 3 Lightweight DCP Tests for every 500 sqft | Lightweight DCP (ITM 216) | IT216 | ITM 216 |

| REF | SUB REF. | SPEC. REF. | ITEM | JOB CONTROL LOCATION | JOB CONTROL NOTES | JOB CONTROL FREQUENCY | SM ACCEPTANCE TEMPLATES | AWP ACCEPTANCE TEMPLATES |
|-----|----------|----------------------------|--|----------------------|--|---|---|--|
| 112 | 01 of 01 | 725.07 | CELLULAR CONCRETE GROUT | JOB SITE | | Certification-Type A Four 3 in. by 6 in. cylinders for compressive strength for each 100 cyd by Contractor. | SM9003 T22 | AV9003 T22 |
| 113 | 01 of 02 | 905.05 | DETECTABLE WARNING SURFACES | JOB SITE | NON-METALLIC DETECTABLE WARNING SURFACES AND ANCHORS. Inspect each element | Approval Number Build America Certification Manufactured Product | SM9004 SM1005 (attach Build America certification(s) in SM) | AV9004 AV1005 (attach Build America certification(s) in AWP) |
| 113 | 02 of 02 | 905.05 | DETECTABLE WARNING SURFACES | JOB SITE | CAST IRON DETECTABLE WARNING SURFACES OR COMPOSITE DETECTABLE WARNING SURFACES WITH STEEL ANCHORS. Inspect each element. | Approval Number Buy America Certification | SM9004 SM1004 | AV9004 AV1004 |
| 114 | 01 of 01 | 411 | MICROSURFACING (WARRANTY) | JOB SITE | One DMF required per course. | Approval Number-DMF Number | SM9004 | AV9004 |
| 115 | 01 of 01 | 414 | ULTRATHIN BONDED WEARING COURSE (WARRANTY) | JOB SITE | One DMF required per course. | Approval Number-DMF Number | SM9004 | AV9004 |
| 116 | 01 of 01 | 907.08 907.09 907.10 | CLAY PIPE OR TILE | JOB SITE | Inspect for dimensions and workmanship. | Certification-Type C | SM9003 | AV9003 |
| 117 | 01 of 03 | RSP 627-R-546 | CABLE BARRIER SYSTEM | JOB SITE | SYSTEM | Approval Number Buy America Certification | SM9004 SM1004 (attach Buy America certification(s) in SM) | AV9004 AV1004 (attach Buy America certification(s) in AWP) |
| 117 | 02 of 03 | RSP 627-R-546 | CABLE BARRIER SYSTEM | JOB SITE | WIRE ROPE. Inspect for dimensions and workmanship. | Certification-Type A including thickness of zinc coating, minimum breaking strength, the modulus of elasticity and the force applied to pre-stretch the wire rope. One certification per each spool. Buy America Certification | SM9003 SM1004 (attach Buy America certification(s) in SM) | AV9003 AV1004 (attach Buy America certification(s) in AWP) |
| 117 | 03 of 03 | RSP 627-R-546 | CABLE BARRIER SYSTEM | JOB SITE | INTERMEDIATE LINE POSTS, THREADED TERMINALS, TURNBUCKLES, ANCHOR FITTINGS AND RETROREFLECTIVE SHEETING. Visually inspect for dimensions and workmanship. | Certification-Type C Buy America Certification | SM9003 SM1004 (attach Buy America certification(s) in SM) | AV9003 AV1004 (attach Buy America certification(s) in AWP) |
| 118 | 01 of 01 | 920.01 922.19 | CONDUIT | JOB SITE | CONDUIT FOR LIGHTING. Polyethylene (MDPE or HDPE). CONDUIT FOR SIGNALS. | Certification-Type C Buy America Certification Build America Certification Construction Product (MDPE or HDPE only) | SM9003 SM1004 (attach Buy America certification(s) in SM) SM1005 (attach Build America certification(s) in SM) AV1005 (attach Build America certification(s) in AWP) | AV9003 AV1004 (attach Buy America certification(s) in AWP) AV1005 (attach Build America certification(s) in AWP) |
| 119 | 01 of 01 | 702.03 906.08 | HIGH DENSITY BEARING STRIP | JOB SITE | Multipolymer plastic. | Certification - Type B Build America Certification Construction Product | SM9003 SM1005 (attach Build America certification(s) in SM) | AV9003 AV1005 (attach Build America certification(s) in AWP) |
| 120 | 01 of 01 | RSP 205-C-231 | EROSION CONTROL TEMP. ONLY | JOB SITE | TEMPORARY TURBIDITY CURTAIN. For water quality. | Certification - Type B | SM9003 | AV9003 |
| 121 | 01 of 01 | 720.04 | MANHOLE GRADE RINGS | JOB SITE | GRADE RINGS. Other than precast concrete. | Certification-Type C Buy America Certification (steel or iron) Build America Certification Construction Product (other than steel or iron) | SM9003 SM1004 (attach Buy America certification(s) in SM) SM1005 (attach Build America certification(s) in SM) | AV9003 AV1004 (attach Buy America certification(s) in AWP) AV1005 (attach Buy America certification(s) in AWP) |

| REF | SUB REF. | SPEC. REF. | ITEM | JOB CONTROL LOCATION | JOB CONTROL NOTES | JOB CONTROL FREQUENCY | SM ACCEPTANCE TEMPLATES | AWP ACCEPTANCE TEMPLATES |
|-----|----------|---------------------|---|----------------------|--|---|---|---|
| 122 | 01 of 02 | RSP 738-B-297 | WARRANTIED POLYMER OVERLAY, BRIDGE DECK | JOB SITE | WARRANTIED. Aggregates, Epoxy Polymer, Surface Cleanliness Verification Testing | Aggregates - Approval Number Polymer - Approval Number Verification Testing | SM9004 SM9004 No Sample ID Required | AV9004 AV9004 No Sample ID Required |
| 122 | 02 of 02 | RSP 738-B-297 | POLYMER OVERLAY, OTHER CONCRETE SURFACE | JOB SITE | RCBA, NON-WARRANTIED. Aggregates, Epoxy Polymer, Surface Cleanliness Verification Testing | Aggregates - Approval Number Polymer - Approval Number Verification Testing | SM9004 SM9004 No Sample ID Required | AV9004 AV9004 No Sample ID Required |
| 123 | 01 of 03 | RSP 620-R-483 | SOUND BARRIER SYSTEMS | JOB SITE | ALL TYPES. | Approval Number Build America Certification Manufactured Product Visual Inspection - Comparsion with a Control Sample | SM9004 SM1005 (attach Build America certification(s) in SM) No Sample ID Required | AV9004 AV1005 (attach Build America certification(s) in AWP) No Sample ID Required |
| 123 | 02 of 03 | RSP 620-R-483 | SOUND BARRIER SYSTEMS | JOB SITE | COMPONENTS. (Joint mortar, Structural Aluminum Posts, Structural Steel Posts Brackets (Structural Steel).) | Certification - Type C Mill Certification Buy America Certification (For Steel) Build America Certification Construction Product (For Aluminum) | SM9003 External Document SM1004 (attach Buy America certification(s) in SM) SM1005 (attach Build America certification(s) in SM) | AV9003 External Document AV1004 (attach Buy America certification(s) in AWP) AV1005 (attach Build America certification(s) in AWP) |
| 123 | 03 of 03 | RSP 620-R-483 | SOUND BARRIER SYSTEMS | JOB SITE | CONCRETE MASONRY UNITS. | Certification -Type A | SM9003 | AV9003 |
| 124 | 01 of 02 | RSP 625-R-194 | GABIONS AND REVET MATTRESS | JOB SITE | GABIONS. | Certification -Type A Buy America Certification | SM9003 SM1004 (attach Buy America certification(s) in SM) | AV9003 AV1004 (attach Buy America certification(s) in AWP) |
| 124 | 02 of 02 | RSP 625-R-194 | GABIONS AND REVET MATTRESS | JOB SITE | REVET MATTRESS. SOIL ANCHOR STAKES. | Certification -Type A Certification -Type C Buy America Certification | SM9003 SM9003 SM1004 (attach Buy America certification(s) in SM) | AV9003 AV9003 AV1004 (attach Buy America certification(s) in AWP) |
| 125 | 01 of 01 | 807.15 | SERVICE POINT | JOB SITE | ALL TYPES. Includes components such as poles, conduit, weatherhead, ground rod/cable, meter box, etc. | Certification -Type C Buy America Certification Build America Certification Manufactured Product | SM9003 SM1004 (attach Buy America certification(s) in SM) SM1005 (attach Build America certification(s) in SM) | AV9003 AV1004 (attach Buy America certification(s) in AWP) AV1005 (attach Build America certification(s) in AWP) |
| 126 | 01 of 03 | 907.23 715.02(l) | ROADWAY DRAIN CASTING EXTENSION | JOB SITE | SMOOTH WALL PVC PIPE. | Pipe (Certification-Type C) Mounting Hardware (Certification-Type C) Build America Certification Construction Product | SM9003 SM9003 SM1005 (attach Build America certification(s) in SM) | AV9003 AV9003 AV1005 (attach Build America certification(s) in AWP) |
| 126 | 02 of 03 | 907.28 715.02(l) | ROADWAY DRAIN CASTING EXTENSION | JOB SITE | REINFORCED THERMOSETTING RESIN PIPE | Pipe (Certification-Type A) Mounting Hardware (Certification-Type C) Build America Certification Construction Product | SM9003 SM9003 SM1005 (attach Build America certification(s) in SM) | AV9003 AV9003 AV1005 (attach Build America certification(s) in AWP) |
| 126 | 03 of 03 | 908.10 715.02 | ROADWAY DRAIN CASTING EXTENSION | JOB SITE | CAST IRON SOIL PIPE. Field check for dimensions and weight. | Pipe (Certification-Type C) Mounting Hardware (Certification-Type C) Buy America Certification | SM9003 SM9003 SM1004 (attach Buy America certification(s) in SM) | AV9003 AV9003 AV1004 (attach Buy America certification(s) in AWP) |
| 127 | 01 of 02 | 908.10 715.02(n) | BRIDGE DECK DRAIN SYSTEM | JOB SITE | CAST IRON SOIL PIPE. Field check for dimensions and weight. | Pipe (Certification-Type C) Mounting Hardware (Certification-Type C) Buy America Certification | SM9003 SM9003 SM1004 (attach Buy America certification(s) in SM) | AV9003 AV9003 AV1004 (attach Buy America certification(s) in AWP) |
| 127 | 02 of 02 | 907.28 715.02(n) | BRIDGE DECK DRAIN SYSTEM | JOB SITE | REINFORCED THERMOSETTING RESIN PIPE | Pipe (Certification-Type A) Mounting Hardware (Certification-Type C) Build America Certification Construction Product | SM9003 SM9003 SM1005 (attach Build America certification(s) in SM) | AV9003 AV9003 AV1005 (attach Build America certification(s) in AWP) |
| 128 | 01 of 01 | 901.07 | CONCRETE PATCHING MATERIALS | JOB SITE | RAPID SETTING PATCH MATERIAL | Approval Number (W Number) | SM9004 | AV9004 |

| REF | SUB REF. | SPEC. REF. | ITEM | JOB CONTROL LOCATION | JOB CONTROL NOTES | JOB CONTROL FREQUENCY | SM ACCEPTANCE TEMPLATES | AWP ACCEPTANCE TEMPLATES |
|-----|----------|--|---|----------------------|---|--|--|---|
| 129 | 01 of 01 | 725-R-741 | PIPE LINERS | JOB SITE | CURED-IN-PLACE-LINER (CIPP). Testing of CIPP in accordance with ASTM D 5813, Section 7.3. Report Flowable Backfill, Non-Removable, and/or Cellular Concrete Grout, as applicable. | Certification-Type A (Referencing ASTM D 5813, Section 7.3) Build America Certification Construction Product Temperature Submittal Pre Video Inspection Submittal | SM9003 SM1005 (attach Build America certification(s) in SM) SM9003 | AV9003 AV1005 (attach Build America certification(s) in AWP) AV9003 |
| 130 | 01 of 01 | 708.02 | PNEUMATICALLY PLACED MORTAR | JOB SITE | All mixture constituents must come from approved lists. | Portland Cement - Approval Number (W#) Fine Aggregate - Approval Number (CAPP Q and D) Fly Ash (If Used) - Approval Number (W#) | SM9004 IT211 SM9004 | AV9004 AV9004 AV9004 |
| 131 | 01 of 01 | 206.08 | PREPARATION OF FOUNDATION: SPREAD FOOTING ON ROCK | JOB SITE | Drilling three 2 in. diameter holes 5 ft depth into rock | External Document (One report per abutment) | SM1002 | AV9003 |
| 132 | 01 of 01 | 217.09 | SOIL DRYING OR SUBGRADE FOUNDATIONS | JOB SITE | 12 in. per lift | 2 DCP tests per 1000 ft One moisture test per 4 hours of lime soil mixing One gradation test per 2500 ft | IT509 IT506 IT516 | ITM 509 ITM 506 ITM 516 |
| 133 | 01 of 01 | 203.26 RSP-203-R-765 219.14 | PROOFROLLING | JOB SITE | Complete coverage (Truck is to drive over entire surface.) | Visual Inspection Corrective Action: Original ground or Embankment Foundation: Greater than 1" with 15 ton Dump Truck Embankment constr, subgrade, or subbase: Greater than 1/2" with 33 ton Dump Truck Cement stabilization subgrade soil: Greater than 1/4" with 33 ton Dump Truck | No Sample ID Required. | No Sample ID Required. |
| 134 | 01 of 01 | 906.01 | JOINT FILLER | JOB SITE | JOINT FILLERS. Preformed materials for use in PCCP or as otherwise specified. | Certification-Type B Build America Certification Manufactured Product | SM9003 SM1005 (attach Build America certification(s) in SM) | AV9003 AV1005 (attach Build America certification(s) in AWP) |
| 134 | 02 of 02 | 906.03 | JOINT FILLER | JOB SITE | PREFORMED EXPANSION JOINT FILLER (PEJF). For Bridge Component Interfaces. | Visual Inspection Build America Certification Manufactured Product | No Sample ID Required. SM1005 (attach Build America certification(s) in SM) | No Sample ID Required. AV1005 (attach Build America certification(s) in AWP) |
| 135 | 01 of 01 | 218.05 | QC/QA FOR SOIL FILL SECTIONS AND SUBGRADE | JOB SITE | Maximum Dry Density | One at start of work and one for every change in soil type | IT512 | ITM 512 |
| 136 | 01 of 01 | 219.12 | CEMENT STABILIZED SUBGRADE SOIL | JOB SITE | Stiffness | Three LWD tests per 2,000 sq yd | IT508 | ITM 508 |
| 137 | 01 of 01 | 801.03 801-xxx 923.09 | ADA COMPLIANT WORKZONE DEVICES | JOB SITE | Temporary Curb Ramps, Temporary Pedestrian Path, Temporary Pedestrian Channelizer, Audible Information Devices | Approval Number | SM9004 | AV9004 |

| REF | SUB REF. | SPEC. REF. | ITEM | JOB CONTROL LOCATION | JOB CONTROL NOTES | JOB CONTROL FREQUENCY | SM ACCEPTANCE TEMPLATES | AWP ACCEPTANCE TEMPLATES |
|-----|----------|------------|--|----------------------|---------------------------------------|--|--------------------------------|--------------------------------|
| 138 | 01 of 01 | 617 | HIGH FRICTION SURFACE TREATMENT (HFST) | JOB SITE | Friction Number Mean Profile Depth | Type A Certification Friction Number Testing Performed by Research Division: 1 per location or 1 every 1500 lane feet, whichever is shorter 24-72 hours after HFST application. Mean Profile Depth Contractor Performed Testing : 1 per location or 1 every 1500 lane feet, whichever is shorter | SM9003 | AV9003 |
| 139 | 01 of 01 | 729 | HEAT STRAIGHTENING OF STEEL MEMBERS IN THE FIELD | JOB SITE | | Departments List of Steel Structural Member Repairers, or hold a current Certification with work type 0050 from INDOT 1 Post-Repair Liquid Penetrant Test or Magnetic Particle Test per Impact Location by a certified ASNT recommended SNT-TC-1A or ANSI/ASNT Level II Inspector | SM9004 or SM9003 SM9003 | AV9004 or AV9003 AV9003 |
| 140 | 01 of 02 | 713 | TEMPORARY BRIDGES AND APPROACHES | JOB SITE | ALL NEW MATERIALS | Visual Inspection Required Verify that all new materials are being used with appropriate paperwork. | Visual | Visual |
| 140 | 02 of 02 | 713 | TEMPORARY BRIDGES AND APPROACHES | JOB SITE | SOME SALVAGED MATERIALS | Certification -Type Other | SM9003 | AV9003 |