2022 QUALITY ASSURANCE MANUAL BUY AMERICA SUPPLEMENTAL

(NOVEMBER 10, 2022)

This document applies to the 2022 Buy America Updates. This document supersedes the 2020 Quality Assurance (QA) Manual provisions where included in these supplementals.

Changes to the QA Manual are highlighted in yellow and indicated with a line in the left margin (shown at left).

These supplementals include revisions to the following sections of the QA Manual:

- Section 100
- Section 200-240
- Section 270
- Section 400

SECTION 100.00 QUALITY ASSURANCE PROGRAM INTRODUCTION

100.00.01 Quality Control (QC) (Producer).

100.00.02 Acceptance (Buyer).

100.00.03 Independent Assurance (IA).

100.01 Conflict of Interest.

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SECTION 100.00 QUALITY ASSURANCE PROGRAM INTRODUCTION

The Code of Federal Regulations, (CFR) Part 637 of Title 23, specifies all state highway agencies, which includes the Idaho Transportation Department, must develop a quality assurance program. The program will assure that materials and workmanship incorporated into each federal-aid highway construction project on the NHS are in conformity with the requirements of the approved plans and specifications, including approved changes. The program must be approved by the Federal Highway Administration and must contain certain elements identified in the federal regulation.

The ITD Quality Assurance (QA) Program, as approved by FHWA, applies to all projects, whether federal-aid or state funded. The ITD QA program contains the three required elements: the Acceptance Program (Section 200.00), the Independent Assurance Program (Section 300.00), and the Project Materials Certification (Section 400.00).

The ITD Quality Assurance Program defines three levels of evaluation:

100.00.01 Quality Control (QC) (Producer). Quality Control includes all Contractor/Vendor operational techniques and activities that are performed or conducted to fulfill the contract requirements. Quality control of materials used in construction is the Contractor's responsibility and is performed during the production of the material and/or at the point of delivery. The test results provide information to substantiate the uniformity of the material as it is produced and the conformity of the product to specification requirements. A useful tool in quality control is the control chart or run chart. It charts each test result on a graph that shows the average, the variation about the average, and any change in the process during production.

100.00.02 Acceptance Program (Buyer). The acceptance program encompasses all factors that comprise the Department's determination of the quality of the product as specified in the contract requirements. In addition to inspection, these factors include:

- Manufacturer's certification.
- Acceptance sampling and testing is sampling and testing used in the acceptance decision.
- Verification sampling and testing is sampling and testing performed by the Department or their designated agent, hired by the Department, to validate the quality of the product. All verification samples will be taken independently of QC samples.

The results of the acceptance program are used by the Department to accept the material at full price, reject the material, or accept the material at a reduced price.

100.00.03 Independent Assurance (IA). Independent Assurance is an unbiased and independent evaluation of all the sampling and testing procedures, personnel, and equipment used in the acceptance program. It is a procedure, personnel, and equipment check and is not a part of the acceptance decision.

100.01 Conflict of Interest. In order to avoid a conflict of interest or an appearance of a conflict of interest, the following applies to any non-Department laboratory for each project:

1. Any non-Department laboratory is allowed to perform only one of the following types of testing on the same project:

    - Acceptance
    - Quality Control
    - Independent Assurance
    - Dispute Resolution

2. If the non-Department laboratory, participated in any process of the mix design development for a project (i.e., from sampling the aggregate to the sealing and stamping of the mix design), the non-Department laboratory is only allowed to work for the Contractor on this project; thereby limiting the non-Department laboratory to quality control testing only on this project.

3. If a mix design(s) used on a project has been previously used and approved by the Department for another project(s), the restriction above in 2 does not apply and the non-Department laboratory may participate in any one, but only one, of the following types of testing on the project:

    - Acceptance
    - Quality Control
    - Independent Assurance
    - Dispute Resolution

All levels of testing by the Contractor or their designated laboratories to control the quality of a product are considered QC testing.

The non-Department laboratory must also meet the requirements of Section 225.00 of the Laboratory Operations Manual.

110.00 Quality Assurance Specification Team. In 1996, an ongoing Quality Team was formed to implement and oversee Quality Assurance measures in accordance with the CFR and to ensure the quality of materials and construction on Idaho's roadways by partnering with Contractors.

In Spring of 2003, the team was reestablished and renamed the Quality Assurance Specification Team. The Division of Engineering Highways Construction and Operations Administrator serves as the team's executive sponsor to accomplish the following charge:

> To provide continued development and improvement of the Department's Quality Assurance specifications, measures, and programs to assure quality materials are incorporated into Department projects.

Team members consist of HQ and District representatives from Construction, Materials, Central Laboratory, and Training. An FHWA member, together with representatives from the Consultant and Contracting communities, are also chosen based on knowledge and experience. Contracting members will be recommended by the Association of General Contractors (AGC) and consulting members will be recommended by the Association of Consulting Engineers (ACEC), each to serve for 4 years. Materials Engineers and Resident Engineers will be rotated every 4 years. Reappointments will be allowed based upon expertise and interest.

The Quality Assurance Specification Team will have authority for establishing, maintaining, and promoting Quality Assurance Specifications and programs for the Department.

Most recently, this team has only worked on the Quality Assurance Special Provision. (FHWA has placed a high priority on the Department to renew its priority on quality assurance including a statewide QA team and ideally filling in the quality assurance engineer position.)

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SECTION 200.00 ACCEPTANCE PROGRAM.

In order to implement the quality assurance elements outlined in Section 100.00, the Acceptance Program must provide a frequency guide, identify the location, and identify specific quality attributes for sampling and testing. Section 270.00 contains this information for each contract bid item and the Department's Quality Assurance Special Provision (QASP) has this information for bid items under the QASP.

200.00.01 Test Result Challenge Resolution. The Contractor and the Department may enter into a challenge resolution when the quality of a lot is believed to be misrepresented. The Department has established a Test Result Challenge Resolution process in Section 106.07 of the Standard Specifications.

The Central Materials Laboratory will perform all challenge resolutions.

200.01 Specifications Compliance and Expenditure of Public Funds. The specifications and plans provide the minimum requirements that must be met for bidding and completing the contract. The Contractor commits to furnishing materials and completing work that will equal or exceed such requirements. The Engineer must be satisfied, through quality assurance measures, that the public is receiving what it is entitled to under the contract. Nothing less should be accepted. To do so is not only a disservice to the state, but would be giving undue advantage to the Contractor. Other Contractors who bid on the same work could contend that they would have offered a lower bid had they been able to anticipate that materials or work outside of specifications is acceptable.

When payment is made to the Contractor for materials furnished and work performed, the duly designated state officials must authorize disbursement of public funds for this purpose. Through the quality assurance program, the Resident Engineer and the project staff will acquire substantiating data in the form of tests, inspection records, and measurements to justify acceptance of the Contractor's work. Thus, the Engineer can be assured the Contractor has fulfilled the contract obligation and is entitled to payment. The Resident Engineer will withhold payment to the Contractor for any material where the required QC sampling, testing, and/or certification have not been accomplished.

In case of failure to meet the requirements, the quality assurance program data will constitute the basis for rejection of work deemed unfit for acceptance. This data may also be the basis for acceptance of the work upon appropriate contract price adjustment, if permitted under the provisions of the specifications.

Complete records, including tests and inspection reports covering acceptance or rejection of any materials, are kept in the project files and required copies are distributed to other offices as needed for review and documentation. The Resident Engineer is responsible for compiling the records to provide a Materials Summary Report (MSR) for each project. Follow the instructions in Section 400.00, Project Materials Certification for compiling the MSR. The MSR is used to complete the Materials Certification letter for each project.

200.01.01 Semi-Annual Status Report. The District Materials Section must monitor the Districts' progress on a semi-annual basis and provide the Chief Engineer with reports of deficiencies. Deficiencies are defined as:

1. Payment for out-of-specification material.
2. Payment for material that was not sampled, tested, or certified as required by the specifications.
3. Failure to perform, or a lack of, Independent Assurance testing.
4. Failure to submit the Materials Summary Report and the Materials Certification letter to the Chief Engineer within 60 calendar days from the District Engineer's final acceptance of the project.

200.02 How the ITD Acceptance Program Applies to Various Types of Projects. The ITD Acceptance Program applies to all project types according to the requirements shown in Table 200.02.1. There could be situations where more than one project type is included in a single contract. In these cases, the acceptance will be determined by the specifications that govern each contract item.

For example, a Department contract awarded by Contracting Services could contain several contract items for constructing local roadways and/or buildings which are covered by different local building codes in the contract. The local jurisdiction is responsible for the inspection and acceptance of the items. At the completion of the work, the local jurisdiction must provide a letter to the Department stating the contract item met the contract specifications.

Table 200.02.1: Acceptance Requirements According to the Type of Project

Type of Project	Awarded By	Type of specifications	Materials Inspection & Acceptance	Materials Certification	Final Department Acceptance
ITD Contract	ITD Contracting Services	ITD Standard Specifications	ITD Project Personnel per ITD QA Manual	Resident Engineer per Section 400.01	District Engineer per Section 400.01
ITD Contract	ITD Contracting Services	Public Works Specifications	Out-source to Consultant inspection per contract specifications	Resident Engineer per Section 400.01	District Engineer per Section 400.01
Local Agency Enhancement	Local Agency	Public Works or Local Specifications	Local Agency per contract and specifications	Local Agency provides letter to ITD District Engineer	District Engineer provides Final Acceptance after Final Inspection.
Local Agency Off-System Highway	Local Agency	ITD Standard Specifications	Local Agency per ITD QA Manual.	Local Agency provides letter to ITD District Engineer	District Engineer provides Final Acceptance after Final Inspection.

200.02.01 Rest Areas and Buildings. Rest area and building projects that have contract items with acceptance requirements different from ITD specifications will require the following:

1. The Architect of Record will issue a letter of acceptance based on field inspections and approval of required contract submittals for items governed by the Architectural Special Provisions. A copy of the inspections and approvals must be included with the letter.

2. Documented inspections by the Department of Building Safety for the applicable components.

3. Concrete governed by non-Department specifications will require additional acceptance by:

    a) Department field-inspection personnel must observe Contractor field quality control sampling and testing for proper testing methods and procedures. Actions taken pertaining to Contractor field quality control sampling and testing activities will be recorded in the Construction Diary.

    b) The Department will perform field tests for air, slump, unit weight, and temperature from the same truck as every companion test cylinder set is made.

    c) The Contractor must provide companion test cylinder sets to the Department for acceptance testing at the concrete sampling frequency required by the contract.

4. Metal reinforcement bar governed by non-Department specifications will require additional acceptance by Department field-inspection personnel in accordance with the Quality Assurance Manual, Section 270.00 Minimum Testing Requirements for 503 Metal Reinforcement.

5. Acceptance and documentation for items with the requirements contained in the Idaho Standards of Public Works Construction (ISPWC) will be accepted by manufacturer's certification referencing the ISPWC specifications. Project inspection and acceptance of ISPWC items will be out-sourced by the owner (the Department or Local Agency).

Items that are not Department specifications are exempt from the Department's Quality Assurance Manual Independent Assurance requirements.

SECTION 210.00 INSPECTION AND TESTING RESPONSIBILITY. Inspection personnel assigned to a project will inspect all portions of the day-to-day work. They will also inspect, test, and approve all material going into the work. Certification of some material is allowed. Use Section 230.00 for specific directions for accepting material by certification.

All testers and inspectors must be properly qualified in accordance with the Department's specifications and policies. Sampling, testing, and inspection personnel are expected to know which materials must be sampled, when and where samples must be taken, the size of samples required, the proper methods of obtaining samples, and methods of field testing.

The Department's Standard Specifications for Highway Construction state the required sampling and testing methods or the required standard practice methods. Methods include AASHTO, ASTM, Idaho Standard Methods, etc. The QA Manual contains Western Alliance for Quality Transportation (WAQTC) FOPs, Idaho FOPs, and Standard Procedures that modify certain methods. The modifications in the QA Manual govern over the methods shown in the Standard Specifications. The Standard Procedures govern over the WAQTC FOPs. The Standard Procedures are included at the end of each applicable method.

Diligent inspection of the work in progress and of each successively completed portion is important. There must be assurance when the work is finished that all parts are acceptable. No amount of sampling and testing can give this assurance without documenting observations at the same time.

210.01 Inspection and Testing at the Project Site. The project inspector must identify and check all materials received on the project before they are incorporated into the work and must ascertain that acceptable test and inspection reports are available for all items inspected by others.

Test reports must show the tester's printed name and qualification number and be initialed or signed by the tester.

Any individual that signs the "Checked By" box or certify the test results on any materials testing report must have been qualified in the appropriate Sampler/Tester area at one time or be an Idaho licensed professional engineer. This individual can have an expired qualification or license, provided they are not suspended.

Materials that have been inspected by anyone other than project personnel must be reexamined for any damage or contamination that may have occurred subsequently, or for any defects that may not have been observed in the original inspection. Defects or contamination, unless satisfactorily remedied, may be cause for rejection in spite of prior approval.

The project inspector will sample and test as required all materials received on the project without prior inspection and approval. The Contractor is notified if the material was rejected. If the required tests cannot be performed at the project site, send appropriate samples to the District or the Central Materials Laboratory for testing. Upon notification of the test results, the material will be accepted or rejected and the Contractor promptly notified. The project inspector must know the appropriate options for disposition of any rejected or failing material and fully document the action taken.

Fabricated items accepted by certification must be visually inspected. See Section 230.00 for additional discussion on products or items accepted by certification.

Along with examining and checking all materials brought onto the project site, inspectors must maintain a continuing visual inspection of the Contractor's operations where the materials are handled and incorporated into the work. Any procedures that result in damage or change in any material to the extent that it will fall outside the specification limits will not be permitted to continue. The affected materials will be rejected or the defects satisfactorily remedied.

210.02 Inspector & Tester Safety. Sampling and testing procedures may involve hazardous materials, operations, and equipment. The inspector must be aware of safety hazards and comply with established safety procedures. Department safety policies reinforce the necessity of protective clothing and equipment when working around construction equipment and machinery. Occupational Safety and Health Administration (OSHA) regulations must be followed for non-Department personnel on the project site. The Contractors are responsible for providing a safe working environment and a safe means of obtaining random samples. The Department is responsible for stopping any unsafe operations until corrective action is taken.

When there is a safety concern for the sampler, the Department will allow the Contractor, due to familiarity with their equipment or operation, to obtain the sample as long as a WAQTC-qualified sampler observes the sampling.

The sampling and testing technicians must limit the weight of aggregate sample increments to no more than 40 pounds per sack or bucket.

210.03 Source Documents. A source document is defined as the original document on which any measurements, original observations, calculations, or derived data of actual work performed are first recorded.

A source document is an essential project record because it is the beginning of a verifiable audit trail. Individually and collectively, source documents permit the evaluation of project data and the quality of the data produced. Source documents enable independent observers the ability to confirm data and verify the information reported as accurate and true. It is crucial to accurately and timely complete, make available, and retain source documents.

Source documents include:

- Electronic printouts (e.g., weight tickets, certifications)
- Electronic forms completed throughout the project (e.g., ITD-0025). Paper forms completed throughout the project (See 210.03.03)
- Field notes used to capture project information (e.g., field books, field notes, project scratch sheets)

210.03.01 Source Document Requirements. Data must be collected and immediately recorded on an ITD approved source document. Data transferred from other sources will not be accepted (e.g., computer, whiteboard, contractor proprietary form).

The source document must be consistent with and match electronically submitted data, forms, and final reports. If the information captured on the source document does not match the electronically submitted data, remarks must be documented to establish clear justification for the difference in data, or be subject to rejection.

Create and correct hand written source documents using permanent blue or black ink to ensure the quality of reproduction. Corrections and amendments to source documents must follow criteria described in 203.03.02. All entries in the source document must be legible to individuals other than the author.

The Contractor and its subcontractors must save, maintain, and make source documents available (upon Department request) for a minimum of 5 years from the date of the final voucher. All source documents, regardless of form or format, must be maintained in their entirety, and no document or entry may be deleted from the record during the retention period.

Source documents are to be made available immediately, at Department request, for auditing and verification at any time during working hours (e.g., project work, office hours). It is the Contractor's responsibility to maintain appropriate records and backups of any project document that has been submitted to the Department.

Source documents not used for material acceptance will be electronically submitted at the end of each workday. Original paper versions of source documents must be submitted before project closeout.

1. Source document submittals can be photo copies or images of the source document submitted in .pdf or .jpeg, but will not be considered the official source document.

2. Electronically submitted source documents do not replace the original source document or the original source document retention requirement.

Source documents used for material acceptance:

1. Data must only be initially recorded on ITD-provided source documents (See 210.03.03).

2. Source documents must be electronically submitted before submitting test results. Original paper versions of source documents must be preserved and available for Department audit for a minimum of 5 years after project closeout.

3. Sample information and chain of custody must be complete or the source document and associated sample will be subject to rejection.

4. All required information on the source document must be complete and legible or the source document and associated tests will be subject to rejection.

5. Re-testing

   a) Re-test data is required if any re-testing is performed.

   b) Re-testing completed without remarks will be subject to rejection. The re-testing remarks must clearly illustrate the reason for re-testing or be subject to rejection. If a re-test is rejected, values recorded from the original test will be the official values used.

   c) If additional space is required for remarks:

      i) Attach additional documentation with remarks to the source document.

      ii) Note additional documentation attached in the remarks field.

      iii) Note test method, remarks made by, time and date on the attached document.

      iv) Include attached document with daily source document submittals.

6. A source document may be noted as invalidated or subject to invalidation by project and department personnel (e.g., tester, checker, project manager, Engineer) with knowledge of the testing being conducted. The reason for invalidating or recommending invalidation will be documented. Reasons for invalidating a test may be due to incomplete, illegible, inaccurate, or missing data, improper following of test procedures, or human error (e.g., dropped the pan of material on the floor). The final determination of whether or not the test is used in acceptance will be at the Engineer's discretion based on the reason(s) for invalidating the test. The Engineer will document the final determination.

7. All source documents used in material acceptance that are invalidated will be submitted to the Departments Independent Assurance inspector. Invalidated tests may be submitted by the IA to the STQC.

8. If Department-completed source documents (e.g., Department test results) used for non-statistical based pay items are invalidated as determined by the Engineer, due to incomplete, illegible, inaccurate, or missing required information, basis of payment will default to the contracted amount at no greater than a 1.0 pay factor, and will be submitted, by Department Independent Assurance, to the STQC for review.

9. If the Department-completed source documents used for statistical based pay are invalidated as determined by the Engineer, testing will be performed on the dispute resolution samples and those results will be the official results used for payment on that lot. An invalidated Contractor QC test does exclude the Contractor from dispute resolution.

210.03.02 Corrections and Amendments to Source Documents. When an error is made in a test record entry, the original entry must not be obliterated. The inaccurate (superseded) information must still be legible.

The correction must indicate the reason for the correction, and the correction entry must be dated and initialed by the person making the revision. Examples of reasons for incorrect entries may include “transposed numbers”, etc. The contents of the test record must not otherwise be edited, altered, or removed.

1. Documents created in paper format:

    a) Do not cover the original entries when correcting information on a source document.

    b) If information in a paper record is corrected or revised, draw a single line through the incorrect entry and annotate the record, including the date and the reason for the revision, and initials of the person making the revision.

2. Documents created in electronic format:

    a) Add an addendum to the electronic document indicating the corrected information, the identity of the individual making the addendum.

    b) Preliminary versions of transcribed documents may be edited by the author before signing. A transcriber may also make changes when a non-testing error is discovered before signing (e.g., wrong work type, wrong WAQTC number).

    c) Once a transcribed document is final, it can only be corrected in the form of an addendum affixed to the final copy as indicated above. Examples of documentation errors that are corrected by addendum include: wrong weights or sample locations, duplicate documents, or incomplete documents. The amended version must be reviewed and signed by the Engineer.

3. When a pertinent entry was missed or not entered in a timely manner, the author must meet the following requirements:

    a) Identify the new entry as a “late entry”

    b) Enter the current date and time – do not attempt to give the appearance that the entry was made on a previous date or an earlier time. The entry must be signed by the person making the entry.

    c) Identify or refer to the date and circumstance for which the late entry or addendum is written.

    d) For documents created in electronic format attach an addendum as described in paragraph 2.

210.03.03 Forms. The Contractor and the Department will utilize the following paper forms as original source documentation.

- ITD 0888 (Production Test For Plant Produced Mix (Loose))
- ITD 0855 (Compaction Report for Plant Mix Pavement Production)

ITD 0916 (Aggregate Data Sheet)

SECTION 215.00 MATERIALS OR WORK FAILING SPECIFICATIONS. For material or work that does not meet specification requirements:

- Reject or remove when incorporated.
- Accept with a price adjustment when allowed to remain in place.
- Correct or remedy, by the Contractor, and re-test.

Failing material that has not been incorporated into the work and can be remedied by further processing may be accepted after correction.

If completed work is found to contain material that is not within specifications, a determination must be made of the extent of the nonconformance with specifications, the limits of use of non-conforming material, and if it is feasible to be remedied.

All test results and source documents must be submitted to the Department regardless of whether the results are passing or failing. The action taken must be fully documented by the project inspector or tester in the project file by reports, records covering samples, tests, measurements, and/or corrective action taken, if any. The Resident Engineer is responsible that disposition of the failing material is fully explained, including justification for acceptance, removal, or price reduction. See Standard Specifications Section 105.03.

215.01 Check Tests. Check tests *do not* apply for any material that is subject to statistically based acceptance. Check tests are performed after an acceptance test fails to verify the material does, or does not, meet specifications in the scenarios presented below. Document and report all test results. For the numbering of Check Tests see Section 220.03.01 Numbering Check Tests.

When a failing test result is followed by a passing check test, the check test result becomes the basis for acceptance.

When a failing test result is verified with a check test, additional testing may be performed to define the boundaries of the unacceptable material for corrective treatment.

In all cases, if the check test results indicate the failing test results were caused by a faulty sample or faulty test, record both test results and maintain all source documentation, but add comments to the faulty test data with appropriate reference to the check test.

The field report includes the type of failure, the corrective action taken to get the material back within specifications, and the disposition of the failing material. Include a full explanation of where the failing material was disposed of. After corrective treatment, retesting is required to document acceptability.

Compaction for Excavation, Borrow, Granular Borrow, Backfill: Perform the check test after there has been additional compaction effort and/or remedial efforts, such as drying out or reprocessing the material. The check test will be taken within 10 feet of the original test and at the same elevation.

Concrete Field Acceptance: Perform the check test immediately after the failing test. Continue checking each load until 2 consecutive tests are passing.

Gradation for Sand Membrane Protection Blanket: Perform check test immediately after failing test. If check test fails, reject material.

215.02 Price Adjustments for Non-compliant Materials or Products. Non-compliant (failing or out of specification) material will be rejected/removed, or remedied by the Contractor, before payment is made to the Contractor. However, if it is not feasible to remove or remedy the non-compliant material incorporated into the project, a price adjustment must be made to the Contractor. The Contractor will not be paid full contract price for non-compliant material.

There are certain materials, listed below, that are subject to price adjustments when laboratory tests indicate the materials have failed the required specifications. All other non-specification material is handled as allowed by the contract.

The magnitude of the price adjustment, expressed as a percentage, will be based on the extent of deviation from the specifications as indicated from test results. The price adjustments are shown in the Department's Laboratory Operations Manual.

The determined price adjustment percentage will be applied to the quantity of material that is represented by the non-compliant test results. The cost amount of the price adjustment will be calculated by the Resident Engineer's office using the actual invoice cost of the product, excluding freight, from the Contractor. The following materials or products are subject to price adjustments:

- Portland Cement.
- Fly Ash.
- Waterborne Traffic Line Paint.
- Coating Systems (all formulas).
- Liquid Deicer.
- Performance Graded Asphalt Binder.
- Emulsified Asphalt.
- Geosynthetics.

will be necessary. For example, gradation tests and compaction tests are required for aggregate base. Numbers 1 to 100 could be assigned to gradation tests and numbers 101 to 200 could be used for the compaction tests. Test numbering must be consecutive to verify tests were not skipped or not recorded.

220.03.01 Numbering Check Tests. Circle failing test numbers on the test result form, along with the failing test result. A check test will be performed and numbered as follows:

Compaction and Gradation: The sample numbering will continue sequentially with each test and check test. Add a remark on the check test report to indicate the test is a check test. Note the location where failing material is disposed.

Concrete: The sample numbering will continue sequentially with each test and check test. Add a remark on the check test report to indicate the test is a check test.

220.04 Transporting Flammable and Hazardous Material Samples. The following is reference information to help comply with the shipping regulations. Local conditions and/or regulations may vary and must be complied with when shipping flammable and/or hazardous materials.

220.04.01 U.S. POSTAL SERVICE: Flammable materials [flashpoint below 101°F] cannot be shipped by air mail but can be shipped by surface mail if properly labeled, packaged, and certified. Combustible materials [flashpoint between 101°F and 200°F] can be shipped by air mail when properly packaged, labeled, and certified.

220.04.02 BUS. All flammable and hazardous materials are prohibited – specifically mentions paints. Includes all flammable, combustible, corrosive, and/or caustic materials.

220.04.03 AIR FREIGHT. Flammable materials can be shipped by most air freight companies but must be properly packaged, labeled, and certified. Need to know exact chemicals involved, flashpoints, etc.

220.04.04 PARCEL SERVICES. Shipping of flammable materials is allowed under certain conditions depending on the exact chemical and amount. Packages must be labeled with a flammable sticker and a Hazardous Materials label filled out. The information for the Hazardous Materials label can be obtained by:

- Calling carrier and exactly identifying the chemical to be shipped

OR

- Referring to the carrier handbook, which gives hazard codes, packaging instructions, and certificates required for shipping

Nuclear density gauges have special shipping requirements. If help is needed in arranging for transportation of these devices, contact the Central Materials Laboratory Radiation Safety Officer (RSO).

Table 220.01.1 Materials, Sample Size and Container for Shipping

MATERIAL	MINIMUM SAMPLE SIZE	SAMPLING METHOD	TYPE OF CONTAINER[1]
AGGREGATES:			
Preliminary Base and Surfacing	400 lb.	All aggregates will be	
F.A. for Concrete	30 lb.	sampled according to	
C.A. for Concrete	55 lb.	FOP for AASHTO R 90 /	
P.C.C. Pavement Design (Pit Run)	1,500 lb.	FOP for AASHTO R 76.	
P.C.C. Pavement Design (Crushed)	500 lb. Coarse	Minimum mass of field	
	300 lb. Fine	samples will be based on	
Base Course[2]	80 lb.	the maximum nominal size	Canvas Sacks
Surface Course	80 lb.	of the aggregates.	or 5 gallon Plastic Buckets
Cover Coat Material	60 lb.	Samples for quality testing	
Mineral Filler	25 lb.	should be at least 60 lb	
Special Backfill	60 lb.	Single aggregate sacks must	
Borrow & Granular Borrow	60 lb.	not contain more than 40 lb	
Blotter	30 lb.		
SUPERPAVE HMA JOB MIX FORMULA (Submitted by Contractor for Confirmation)	See 405.03	FOP for AASHTO R 66	[1]Screw Top Can
SUPERPAVE HMA	100 lb	FOP for AASHTO R 97	Cardboard Box of approximate equal dimensions
ASPHALTS:			
PG Binder	Three 1 qt containers	FOP for AASHTO R 66	[1]Screw Top Can
Emulsified Asphalts	1 qt	FOP for AASHTO R 66	[1] Screw Top Plastic Jar
Anti-Strip Additive	4 oz		Glass or Plastic Bottle
CONCRETE:			
Cement/Fly Ash/Silica Fume	1 gal	Idaho IR 143	[1]Cylinder Can
Cylinders	Set of 3	FOP for AASHTO T 23	[1]Cylinder Cans
Curing Compound	1 qt	Idaho IR 7	Metal Screw Top Can
Water	1 gal		Plastic Bottle
Concrete for Chlorides	15 grams pulverized	Idaho IR 128	New 20-Gram Plastic Vial

GLASS BEADS	1- 50 lb Sack		Sack
JOINT MATERIAL	24 in. x full width		
LIME	1 gal	AASHTO T 218	Plastic bucket
METALS:			
Reinforcing Steel (All Grades, All Sizes)	Two - 36 in.	Field sample from shipments delivered to project.	
Dowel Bars for Transverse Joints in Concrete Pavement	Two – Special cut by the supplier- Approximately 36 in.		
Tie Bars for Longitudinal Joints in Concrete Pavement	Two - At least 30 in.	See Section 230.03.02	
Prestressing Reinforcement	60 in. Length each heat number		Ship Straight (do not kink or bend)
Welded Wire Fabric	24 in. Square		Ship Flat
PAINT			
Waterborne	1 qt	Idaho IR 7	Plastic Screw Top Can or Lined Metal Friction Top Can
Solvent	1 qt	Idaho IR 7	Lined Metal Friction Top Can
PIPE:			
Galvanized Coating (Steel Sheet)	2 in. Square	AASHTO M 36	Cardboard Box
SALT	10 lb	ASTM D632	[1]Plastic Wide Mouth or Cylinder Can
SEALANTS (SILICONE)	1 qt		
SOIL & SOIL AGGREGATE MIX			
pH & Resistivity (T 288, T 289)	5 lb	AASHTO R 13	Sealed Non-Metallic Container
Soil Classification (M 145)	5 lb	AASHTO R 13	Sealed Non-Metallic Container
pH & Resistivity & Soil Classification (T 288, T 289, M 145*)	5 lb	AASHTO R 13	Sealed Non-Metallic Container
'R' Value, Soil Classification, pH & Resistivity (IT 8, M 145*, T 90, T 176, T 288, T 289)	26 lb	AASHTO R 13	Sack/ Canvas Bag
Complete Soils Tests (IT 8, M 145*, T 99, T 180. T 100, T 176, T 288, T 289)	50 lb	AASHTO R 13	Sack/ Canvas Bag

Complete Soils Tests Plus Permeability (IT 8, M 145*, FOP for T 99/T180,T 100, T 176, T 288, T 289, T 215)	100 lb	AASHTO R 13	2 Sacks/ Canvas Bags
Complete Soils Tests Plus Resilient Modulus (IT 8, M 145*, FOP for T 99, FOP for T 180, T 100, FOP for T 176, T 288, T 289, T 307) *Note M 145 requires T 88, T 89, T 90 for Classification	100 lb	AASHTO R 13	2 Sacks/ Canvas Bags
GEOSYNTHETICS			
Geotextiles	At least 6 LF across the entire roll width		See Section 230.09
Biaxial Geogrids	At least 6 LF across the entire roll width		See Section 230.09
Uniaxial Geogrids	At least 15 LF across the entire roll width		See Section 230.09

[1]Standard ITD Supply Inventory item; do not re-use a sample container; all sample containers must be new.

[2]If Idaho T 74 (vibrator compactor curve) is required; submit at least 100 lb of material for minus 3/4" material and 150 lb for minus 3" material.

SECTION 225.00 TESTING QUALIFICATIONS. Testing and sampling must be done strictly in accordance with the specified procedures. Any deviations from specified procedures must be documented and clearly communicated to the Department. Standard testing procedures have been developed by organizations such as AASHTO, ASTM, AWS (American Welding Society), WAQTC, and the Department.

Section 590.00 is the Department's STQP and contains all the instructions for the required qualifications.

For areas not covered by STQP, qualification to the appropriate recognized standard is required. An example would be nondestructive testing related to welding inspection, which would be covered by qualification programs of the AWS and American Society for Nondestructive Testing (ASNT). The District Materials Engineer, with the assistance of Construction/Materials, and the Central Materials Laboratory sections if necessary, will verify and document the qualification of those not covered by STQP qualification. The Independent Assurance Inspector will evaluate and document the competency of personnel qualified through STQP according to the IA Program. See Section 590.30.

SECTION 230.00 ACCEPTANCE OF MATERIALS BY MANUFACTURER'S OR FABRICATOR'S CERTIFICATION.

Standard Specification Subsection 106.04 allows the acceptance of certain materials based on certification provided by the manufacturer or fabricator. The certification must be complete and meet the criteria outlined in this section and any additional criteria if specified in the contract. Certifications are source documents.

230.01 General Provisions and Buy America.

230.01.01 General Provisions

Standard Department certification forms will be used. The standard forms are:

- ITD-914 Steel and Iron, and Buy America
- ITD-849 Geotextile and Geogrid
- ITD-851 Miscellaneous Items
- ITD-966 PG Asphalt Binder
- ITD-968 Cement / Fly Ash
- ITD-875 Non-Structural Concrete
- ITD-915 Construction Materials for Buy America

The standard forms must be completed in their entirety and be signed by the manufacturer's representative who has quality control responsibility for the manufacture or fabrication of the material.

When required by the contract, QC test results must be attached to the specified standard form.

Certification does not preclude inspection, sampling, testing, or verification of certified test results of the material received on the project. Project inspectors will review all certification results for specification compliance before accepting the material. If the certified material is found to be outside acceptable specification limits, the material is subject to rejection.

Each shipment of certified material must be visually inspected for obvious defects and shipping/handling damage. Repair, reject, or replace damaged or defective material to the satisfaction of the Engineer. Where feasible, simple measurements of specified properties should be spot-checked at least once per project and recorded to verify certification. Examples would be length, mass per unit length, or thickness of steel items.

Withdraw acceptance of material by certification when sample test or inspection results show the material consistently fails to meet specifications requirements. Reestablishment of the certification acceptance may be achieved through Department pre-testing, pre-inspection, and review of historical certification records and test results of the material before its incorporation into a project. Additionally, the manufacturer's QA program may require revision and reevaluation by the Department.

230.01.02 Buy America

Buy America applies to any contract eligible for Federal Aid Highway funding within the scope of an applicable NEPA finding, determination, or decision regardless of the funding source of such contracts if at least one contract or phase of the project is funded with Federal-Aid highway funds. All permanently incorporated steel and iron materials along with construction materials as established in Standard Specification 106.A must be certified that they were manufactured in the United States of America including application of a coating. Certification must be provided before incorporation of the materials into the project. Materials that are only used or rented during the project construction, but not incorporated into the work (temporality installed), do not require certification.

230.01.02.01 Iron and Steel Products

The ITD-914 form will serve as Buy America Certification and be signed by a person having quality control responsibility for the company that manufactures or fabricates the material. The ITD-914 will be sent with mill tests reports attached, except as noted in the MTRs.

Small quantities of steel and iron may be accepted without Buy American Certification, so long as its total cost for the project does not exceed 0.1% of the contract amount or $2,500, whichever is greater. The total cost of steel and iron includes the cost of the material plus the cost of transportation to the project site, as evidenced by delivery receipt, but does not include labor cost involved in final assembly performed on the project site.

If Department project staff or consultant inspectors discover that foreign iron and/or steel products are incorporated into a federal-aid project that exceed the Buy America minimal use amount for iron or steel (the greater of $2,500 or 0.1% of the contract value), the FHWA Idaho Division must be contacted to resolve this after-the-fact discovery. All information on foreign iron and steel permanently incorporated into a project that exceeds the minimal use amount must be presented to FHWA to determine the appropriate resolution. The Department will not complete a project's Material's Certification without FHWA's resolution when the project is not compliant with Buy America. The Department has no authority to complete such a resolution and cannot resolve Buy America compliance issues by use of non-Federal funds.

230.01.02.02 Construction Materials

Construction materials are limited to those materials consisting primarily of: (1) non-ferrous metals; (2) plastic and polymer-based products (including polyvinylchloride, composite building materials, and polymers used in fiber optic cable); (3) glass (including optic glass); (4) lumber; or (5) drywall. The ITD-915 form serves as Buy America Certification for construction materials and must be signed by a person having quality control responsibility for the company that manufactures the construction material.

Items specifically excluded from being a construction material are: products that are primarily iron or steel; a manufactured product; cement and cementitious materials; aggregates such as stone, sand, or gravel; or aggregate binding agents or additives. Items that consist of two or more of the listed materials that have been combined together through a manufacturing process, and items that include at least one of the listed materials combined with a material that is not listed through a manufacturing

process, do not apply to these Buy America requirements. For example, a plastic framed sliding window should be treated as a manufactured product while plate glass should be treated as a construction material.

If Department project staff or consultant inspectors discover that foreign construction materials are incorporated into a federal-aid project, the FHWA Idaho Division must be contacted to resolve this after-the-fact discovery. All information on foreign construction materials permanently incorporated into a project must be presented to FHWA to determine the appropriate resolution. The Department will not complete a project's Material's Certification without FHWA's resolution when the project is not compliant with Buy America requirements. The Department has no authority to complete such a resolution and cannot resolve Buy America compliance issues by use of non-Federal funds.

230.02 Certification Program Procedures for Portland Cement and Fly Ash. Cement or fly ash manufacturers approved under the Department's Qualified Products List (QPL) Program can supply cement and/or fly ash to Department projects by certification. The Central Materials Laboratory determines which manufacturing plants have met the requirements for the certification program.

To be approved under the program, the Department will evaluate the following:

- A copy of manufacturer's current quality control program.
- Historical certification records and copies of all test results.
- Certified Mill Analysis test reports for material delivered to Department projects.
- Acceptable verification tests on 10 samples submitted from Department projects.
- Other methods deemed necessary by the Department.

Once approved under the Department's QPL Program, the manufacturer must continue to provide certified test results for all material produced.

If a project sample indicates out-of-specification material based on Department verification testing, additional testing may be conducted to define the extent of the problem. Price reduction or item removal will be required when specified tolerances are exceeded. In the event of continual non-conformance, the manufacturer will be removed from the certification program.

230.02.01 Portland Cement. The Department only accepts portland cement by certification from manufacturers approved by the Department's QPL Program. Cement from manufacturers not approved under the QPL requires pre-approval before use.

The concrete supplier furnishing portland cement to any Department project from a manufacturer approved under the Department's QPL Program must provide to the project inspector, at the end of each week in which concrete is placed, a completed ITD-968 Concrete Supplier's Cement / Fly Ash Certificate form with the cement bill of lading attached with the mill analysis number.

Failure to submit the completed form with the appropriate signatures will result in material rejection.

The cement manufacturer must submit certified mill test reports to the Central Materials Laboratory for all cement produced. The cement manufacturer's certified mill test reports must include:

- Name of the cement manufacture company.
- Location of the cement mill.
- Cement Type.
- Mill analysis number.
- Manufacturer's bin or silo number from which cement was shipped.
- Mill analysis test report date and production period.
- Mill analysis test results pertinent to Idaho specifications.
- Certification statement indicating the cement meets all specification requirements pertinent to Idaho specifications.
- Signature, title, and date by the cement company chemist or other authorized official.

The test result data will be monitored for compliance with the specifications and for the manufacturer to remain under the certification program.

Cement samples must be taken for the project, in accordance with the Minimum Testing Requirements (Section 270.00) and Idaho IR-143, from the bulk tank during unload to the concrete plant silo. Samples must be immediately shipped to the Central Materials Laboratory in moisture-proof containers. A 6" x 12" concrete cylinder container must be used for the sample, with the lid securely taped shut. The cylinder container must be completely filled and immediately sealed to eliminate excess air in the sample and to avoid moisture absorption and aeration. **Sample cans received that are not completely filled (discounting normal settling) may be rejected.**

The Contractor or the supplier may take as many cement samples as they want for information only.

Samples are tested for chemical and physical parameters to monitor production characteristics and to verify the certification.

230.02.01.01 Cement Testing. The Central Materials Laboratory groups cement samples according to the manufacturer's mill analysis numbers as the samples are received from projects. Samples with the same mill analysis number are referenced as a mill analysis unit.

The Central Materials Laboratory performs a complete test on the first sample received in the mill analysis unit. The selected sample is tested for all specification parameters. If the first tested cement sample complies with the specifications, The Department will randomly choose one cement sample from the mill analysis unit and perform an alkali test for every 150 tons of cement received for Items 411 and 502 (500 tons for Item 409).

If a cement sample does not comply with the specifications, additional testing will be performed on samples from the mill analysis unit until the extent of the non-compliant material has been determined. The initial and additional test results for each specification item are averaged and the average value for each specification item will be considered the final value. These final values are used to determine compliance or noncompliance of the mill analysis unit.

When test results indicate the cement does not meet specifications, a price adjustment is applied to the entire quantity of material representing that mill analysis unit. The penalty is assessed according to Section 340.05.02 of the Department's Laboratory Operations Manual.

230.02.01.02 Cement Testing Appeal Process. The Central Materials Laboratory retains sufficient cement material from each mill analysis unit for dispute resolution.

If the Contractor wishes to appeal the Department's test results and price reductions, a written appeal request must be submitted within 14 calendar days of the reported test results. The appeal must state the grounds or the circumstances of the appeal. If the test results are in question, the appeal must be accompanied by all of the quality control test results that represent the mill analysis unit in question. The appeal must also be accompanied by Contractor-obtained test results for at least one complete cement test series conducted on the mill analysis in question. The state will not accept appeals when Contractor test results are out of specifications.

When an appeal is accepted, the appeal testing must include all specification parameters for the material in question.

If the appeal is not accepted, the Department will submit a denial letter to the Contractor stating the grounds for the denial.

Appeal testing will be conducted by an independent, AASHTO accredited laboratory, mutually acceptable to the Contractor and the Department. The AASHTO accredited laboratory will report the results to the Department. The results of such tests will be binding to both parties and any price reduction on the unit in question will be based on those test results. The Contractor will agree to bear the costs of the appeal testing if the tests verify noncompliance.

230.02.02 Fly Ash. The Department will accept fly ash by certification only from those manufacturers approved by the Department's QPL Program. Fly ash from manufacturers not approved under the certification program requires pre-approval before use.

The concrete supplier furnishing fly ash to any Department project from a manufacturer approved under the QPL Program must provide to the project inspector, at the end of each week in which concrete is placed, a completed ITD-968, Concrete Supplier's Cement/ Fly Ash Certificate form with the fly ash bill of lading attached with the Sample Identification Number.

Failure to submit the completed form with the appropriate signatures will result in material rejection.

The fly ash manufacturer must submit certified test reports to the Central Materials Laboratory for all fly ash produced. The fly ash source's certified laboratory test reports must include:

- Name of the fly ash source company.
- Plant origin.
- Sample identification number.
- Laboratory test report date and production period.
- Laboratory test results pertinent to Idaho specifications.

- Signature, title, and date by the testing laboratory chemist or other authorized official.

The test result data will be monitored for compliance with the specifications and for the fly ash source to remain under the certification program.

Fly ash samples must be taken, in accordance with the Minimum Testing Requirements (Section 270.00) and Idaho IR-143, from the bulk tank during unload to the concrete plant silo. Samples must be immediately shipped to the Central Materials Laboratory in moisture-proof containers. A 6" x 12" concrete cylinder container will be used, with the lid securely taped shut. The cylinder container must be completely filled and immediately sealed to eliminate excess air in the sample and to avoid moisture absorption and aeration of the sample. **Sample containers received that are not completely filled (discounting minor settling) may be rejected.**

These samples are tested for chemical and physical parameters to monitor production characteristics and to verify the certification.

The Contractor or the supplier may take as many fly ash samples as they want for information only.

230.02.02.01 Fly Ash Testing. The Central Material Laboratory groups fly ash samples according to the manufacturer's identification numbers as the samples are received from projects. Samples with the same identification number are referenced as a mill analysis unit.

The Department's AASHTO accredited laboratory performs a complete test on the first sample received in the mill analysis unit. The selected sample is tested for all specification parameters.

If a fly ash sample does not comply with the specifications, additional testing will be performed on samples from the mill analysis unit until the extent of the non-compliant material has been determined. The initial and additional test results for each specification item are averaged and the average value for each specification item is considered the final value. These final values are used to determine compliance or noncompliance of the mill analysis unit.

When test results indicate the fly ash does not meet specifications, a price adjustment is applied to the entire quantity of material representing that mill analysis unit. The penalty is assessed according to Section 340.05.08 of the Department's Laboratory Operations Manual.

230.02.02.02 Fly Ash Testing Appeal Process. The Central Materials Laboratory retains sufficient fly ash material from each mill analysis unit for dispute resolution.

If the Contractor wishes to appeal the Department's test results and price reductions, a written appeal request must be submitted within 14 calendar days of the reported test results. The appeal must state the grounds or the circumstances of the appeal. If the test results are in question, the appeal must be accompanied by all of the quality control test results that represent the mill analysis unit in question. The appeal must also be accompanied by Contractor-obtained test results for at least one complete fly ash test series conducted on the mill analysis unit in question. The state will not accept appeals when Contractor test results are out of specifications.

When an appeal is accepted, the appeal testing must include all specification parameters for the material in question.

If the appeal is not accepted, the Department will submit a denial letter to the Contractor, stating the grounds for the denial.

Appeal testing will be conducted by an independent, AASHTO accredited laboratory, mutually acceptable to the Contractor and Department. The AASHTO accredited laboratory will report the results to the Department. The results of such tests will be binding to both parties and any price reduction on the unit in question will be based on those test results. The Contractor will agree to bear the costs of the appeal testing if the tests verify noncompliance.

230.03 Steel. The steel fabricator must complete the standard ITD-914, Steel Certification form for each shipment of a steel product to a project. Certified mill test reports from the steel mill for all heats in the shipment must be attached to the ITD-914 form, except as noted in the MTRs. Steel will comply with 230.01.02 Buy America.

The certified mill test report must include the following:

- Name and location of the rolling mill.
- Consignee and/or destination of the shipment.
- Specification.
- Size.
- Heat number.
- Chemical analysis.
- Physical tests.
- Certificate number, order release number or shipment number, etc.
- Signature of authorized official.
- Buy America certification.

230.03.01 Steel Bridge Girders. The Construction/Materials Section will provide inspection during the fabrication of steel bridge girders. The district must contact the Construction/Materials Section as soon as the fabricator is known so the inspection can be scheduled. The inspection may be contracted to an independent company, hired by the Department, when the fabrication is out-of-state.

The Construction/Materials Section will obtain the required certifications, including form ITD-914, Steel Certification, during the fabrication of the steel girders.

The Construction/Materials Section will notify the Resident Engineer by departmental memorandum when the fabrication of the girders is satisfactorily complete and accepted for delivery to the project. Copies of the inspection and certification reports will be forwarded to the Resident Engineer for the project files.

Project personnel should contact the Construction/Materials Section before final erection of the steel girders to schedule an in-place inspection, including, paint, bolting, fabrication tolerances, and field welding.

230.03.02 Metal Reinforcement. The metal reinforcement (reinforcing steel or rebar and cable strand) supplier must submit the ITD-914 form and the certified mill test reports with each shipment of bars delivered to a project site (See Section 230.03).

Metal reinforcement is sampled in the field by Department personnel from shipments delivered to the project. A sample is defined as two 36-inch pieces cut from materials delivered to the project of the same size and heat number. A cable strand sample requires one 6-foot sample cut from every reel. Department inspectors must witness or perform the sampling at the project site.

See Standard Specification Section 503.

The two additional bars which replace the field samples, if from the same heat number, will not require sampling. It is not necessary to resample any bars from a heat number that has previously been tested for the project.

In the event the same heat number is used for a long bar and a shorter bar, the shorter bar will be used for the sample to minimize the cost for the replacement bar.

Some fabricated bent bars may not have a 36-inch length for sampling, however, the sample bars should be submitted and the Central Materials Laboratory will determine if a test specimen can be obtained.

Sampling of bars comprised of spirals will be taken from the extra length of the spiral as required by the specifications. No cutting that would require splicing to obtain samples will be permitted.

In the event of a specialized, non-standard length or size bar, the Central Materials Laboratory should be consulted for the correct sampling technique.

Samples must be promptly shipped or delivered to the Central Materials Laboratory within 2 business days for testing. Next-day shipping is recommended when necessary. Tests are performed to detect non-specification steel for replacement before incorporation into the structure. Samples must be properly tagged and accompanied by ITD-914, ITD-1044, and the Mill Certifications.

When epoxy-coated steel is specified, the coater must mark the portion of ITD-914 referring to the epoxy-coating and provide a certification statement that the coating complies with ASTM A775. Copies of holiday tests and coating thickness tests representing the shipment will be included. An occasional check of coating thickness will be made on the sample bars during laboratory testing using a dry film paint thickness gauge.

Epoxy-coated steel must be visually inspected for coating damage upon delivery to the project, using criteria of ASTM A775. It is especially important to check the outside of bends for cracking, de-bonding, and rust.

230.04 Concrete Pipe Products. Concrete pipe or related products (catch basins, manhole sections, elbows, etc.) delivered to a Department project will be accompanied by form ITD-851, Miscellaneous Items, completed by the manufacturer certifying that all material furnished was manufactured in accordance with the specifications set forth in the contract. All quantities and sizes included under the certification for that project must be listed on the ITD-851 form.

The ITD-851 form for reinforced concrete pipe (RCP) must certify the concrete strength (psi) and wall thickness of the pipe delivered to the project meets the requirements of the contract.

Manufacturers furnishing concrete pipe and related products must hold current certification under the NPCA Plant Certification Program, the ACPA Q-Cast Plant Certification Program, or PCI Plant Certification.

230.05 Concrete Guardrail and Other Pre-cast Concrete Products. Concrete Guardrail and other pre-cast concrete products are required to meet Standard Specification Section 502. Standard Form ITD-851 must be completed by the manufacturer and list all materials used.

Manufacturers furnishing pre-cast concrete products must hold current certification under the NPCA Plant Certification Program, the ACPA Q-Cast Plant Certification Program, or PCI Plant Certification.

230.05.01 Pre-cast, Pre-stressed Concrete. All manufacturers furnishing pre-cast, pre-stressed concrete girders are required to hold current PCI plant certification.

The Contractor is required to give the Resident Engineer advance notice before starting pre-cast operations for the State. Advance notice will allow Department personnel time to review items 1, 2, & 3, and perform appropriate testing of items 4, 5, & 6 listed below. Items 4, 5, & 6 will be obtained by Department inspectors or during their presence.

Provide the following items to the Resident Engineer:

1. Shop drawings on 22"x34", approved by the Department.
2. Production schedule for the entire project: what is being produced on what day and a tentative timeframe for pre-placement inspections and placing of concrete.
3. All submittal information and approved mix design.
4. Aggregate samples with ITD-1044 to confirm gradation.
5. Cement/Fly Ash/Slag Cement sample with ITD-1044, Mill Analysis, and Bill of Lading.
6. Reinforcing samples – Rebar, Strand, Misc. connections/parts with ITD-914, ITD-1044, and all Manufactures Mill Analysis/Certifications.

The Department requires 5 business days to review and test items mentioned above to ensure compliance with the specification.

The Department will conduct random inspections at precast facilities to verify release strengths before removal of forms, stressing release and the stressing of the cable strand during pre-placement operations.

Precast manufacturers are NOT to do any type of work on a Department item until a Department Inspector or equivalent has had the opportunity to inspect the product after it has been removed from the form. Once removed from the form, the product is to be set in the precast facilities storage area and await Department approval. The piece must be marked accordingly or communication must be made with precast facilities management.

The Contractor is required to give 48-hour notice to the Resident Engineer before shipping items to project site. This allows the Department time to check products in the precast yard for final inspection and sign-off. Products will have the precast facilities Quality Control Manager's initials or signature on them before final plant inspection of the product. The Precast facility must furnish a tag or identification sticker to initial and apply to the product, signifying the Department has done a final inspection and the product is ready to be loaded and shipped.

The Department will provide on-site inspection of the manufacturing process of each member, including acceptance, field sampling, and testing as required per Section 270.00 Minimum Testing Requirements. The Department inspector will provide written acceptance of each girder to the Resident Engineer by interdepartmental memo. The Resident Engineer is required to perform on-site inspection for acceptance of the girder upon delivery to the project and throughout the installation of the member. No member will be accepted that contains failing material.

The documentation of the samples and testing, as well as required manufacturer's certification, will be collected by the Department on-site inspector at the manufacturing plant and the originals provided to the Resident Engineer with the acceptance memo.

230.06 Concrete with Specified Strength 3000 psi or Less (Including Seal Concrete). When 3000 psi or less concrete is specified, the concrete may be accepted by certification if produced using a qualified aggregate source. Section 265.02 explains the requirements for qualification of aggregate sources. The concrete mix design must be submitted for review.

The concrete producer must furnish a signed, completed ITD-875 form with the class and concrete mix design designation listed. Department project personnel will provide project placement locations on the form.

The specifications require the producer or Contractor to perform quality control field tests and compressive strength tests for concrete placed on the project. The test results must be attached to the ITD-875 certification.

Follow the requirements of Section 230.03 when concrete products require metal reinforcement.

230.07 Corrugated Metal Pipe and Corrugated Plate Pipe. The supplier will furnish a completed ITD-914 Steel Certification form, covering the quantity of steel shipped to the project. The ITD form will be

accompanied by mill test reports from the pipe manufacturer for all heats of steel involved. A certification will be attached to the ITD-914 and be accompanied with Quality Control test results from the galvanizer indicating the galvanized coating complies with the applicable specification. The appropriate AASHTO or ASTM specifications must be referenced on the form.

For aluminum corrugated metal pipe, the supplier must furnish a completed ITD-851 form from the pipe manufacturer, citing appropriate AASHTO or ASTM specifications in accordance with the contract. Additionally, a form ITD-915 will be submitted attesting that the aluminum pipe meets applicable Buy America requirements for Construction Material (non-ferrous metals).

Visual inspection is required at the project site to check for obvious defects, including damage in handling and shipping. Coated or bare galvanized pipe must always be checked for damage or visible gaps in the protective layers.

Bituminous coating must be verified by field inspection.

230.08 Plastic Pipe. The supplier will furnish a completed certification ITD-851 form from the pipe manufacturer, citing appropriate AASHTO or ASTM specifications in accordance with the contract. Final acceptance is subject to visual inspection for damage in shipping or handling or other obvious defects. Additionally, a form ITD-915 will be submitted attesting that the plastic pipe meets applicable Buy America requirements for Construction Material (plastic and polymer-based products).

230.09 Geosynthetics. The Contractor must furnish the manufacturer's certified test results and the completed ITD-849 form covering the quantity furnished to the project. Additionally, a form ITD-915 will be submitted attesting that the geosynthetics meet applicable Buy America requirements for Construction Material (plastic and polymer-based products).

- The documentation and sampling for the Department will be in accordance with Standard Specifications Subsection 718.02 and 718.03 for geotextiles; the contract special provisions for Geogrid (See also Section 270.60, MTR Section 640).
- Silt Fence; see Section 270.10, MTR Section 212-1.
- Pavement Fabrics; see Section 270.30 MTR, Section 405.8, and Standard Specifications 718.02 and 718.08.
- For handling and disputes; see Standard Specifications Section 106.06 and 106.07 respectively.

230.09.01 Shipping Procedures. Follow the procedures below to ship the samples. Placing multiple samples in a capped tube is acceptable and preferred as follows.

230.09.01.01 Geotextile:

1. Fold the sample to match the uncut selvedge edges.*
2. After rolling the first sample, place the documents under the outside layer.
3. Use a paint pen (silver is preferable) to identify the sample with key #, pay item #, and sample #.

4. Roll the next samples on over the previous ones.
5. Shipping is available on the contracted freight trucks between the District Supply Offices and HQ. Tubes are returned to the district of origin.

***230.09.01.02 Geogrid**:*

1. Fold the sample to match the uncut selvedge edges.*
2. Roll the sample from the fold and tie as necessary.
3. Place the required documents securely under the outside layer.
4. Ship as above.

***Selvedge –** The longitudinal edges of a fabric are formed in such a way to prevent unraveling.

Acceptance of geosynthetics must be in accordance with ASTM D 4759 Standard Practice for Determining the Specification Conformance of Geosynthetics.

230.10 Performance Graded Asphalt Binder. The supplier must submit, on a yearly basis, a Quality Assurance plan to the Central Materials Laboratory for Performance Graded Asphalt Binder, see Section 255.00.

230.10.01 Certification. ITD-966, PG Binder Supplier's Certification, accompanies the initial shipment of PG binder to the project. Qualified personnel must furnish this form with each lot change of PG binder shipped to the project. The Supplier will attach a completed ITD-966 form to the bill of lading that represents the first shipment of each new lot.

230.10.02 Sampling. The first load of asphalt binder delivered to the project must be sampled from the delivery truck. Thereafter, each shift that produces plant mix requires a binder sample comprised of three one-quart cans. The Department determines, at a random time, when to take the samples from the mix plant's asphalt-binder tank injection line. Representatives of the Department and the Contractor, one of which must be WAQTC Asphalt qualified, must obtain or witness the sampling. Both parties must then sign the ITD-859 sample identification form. The Department must retain all three quarts of the samples. Purge at least one gallon from the injection line valve before taking the sample and adhere to FOP for AASHTO R 66.

Send all three cans to the Central Materials Laboratory. Two quarts are for the Department's verification testing and one quart is for dispute resolution. The Contractor or the supplier may take as many samples as they want for information only.

Note: Standard Specifications, Section 405.03.C-2 – Asphalt Storage, states "make provisions for measuring and sampling contents of the storage tanks." Personnel must be aware that the injection line is usually under pressure. The Contractor must provide a safe means to obtain the random samples.

When mix plant operations are just starting or after being suspended for more than 48 hours, the sampling sequence must not begin with a completely random sample; instead, take this binder sample near the beginning or at the resumption of operations.

Samples must be submitted to the Central Materials Laboratory for testing no later than 30 calendar days after the sample date.

230.10.03 Binder Verification Unit. The quantity of binder used in one week's production of plant mix, except as modified in the remainder of this subsection, constitutes a binder verification unit. A binder verification unit is comprised of daily binder samples.

A binder unit must include only one PG grade. Thus, if the PG grade is changed within a production day, one daily binder sample will be taken for each PG grade used and grouped with other daily binder samples representing the corresponding binder verification unit.

Complete the ITD-859 PG Binder Sample Identification Form. The daily binder sample, comprised of three individual quart cans, must be labeled with the sample identification numbers (i.e., 2001-C for the first day, 2002-C for the second day, etc.). Include the daily binder sample identification number and sample date on each sample. The Department and the Contractor must sign the form for each daily binder sample and indicate on the ITD-859 form the date when a supplier's binder lot changes. Idaho IT-99, Presence of Anti-Strip, must be completed in accordance with the required frequency as shown in Section 270.30, Minimum Testing Requirements. Record these results on the ITD-859 form.

The Contractor is responsible for inspecting or certifying their storage tank for contamination.

230.10.04 Testing. The Central Materials Laboratory will randomly choose one daily binder sample from each unit to represent the entire unit and either completely or partially test the selected daily binder sample. If the tested PG grade complies with the specified PG grade properties, the binder unit will be accepted. If the PG grade does not comply with the specified PG grade, additional testing will be performed on the verification unit until the extent of the non-compliant material has been determined.

If multiple tests are conducted on the same binder sample, the initial and additional test results for each specification item will be averaged and the average value for each specification item will be considered the final value. These final values will be used to determine compliance or noncompliance. Non-compliant materials will be subject to the price reduction as specified in the ITD Laboratory Operations Manual.

230.10.05 Appeal Process. The Central Materials Laboratory will retain one daily binder sample for dispute resolution.

If the Contractor wishes to appeal the Department's test results and price reductions, a written appeal request must be submitted within 21 calendar days of the reported test results. The appeal must state the grounds or the circumstances of the appeal. If the test results are in question, the appeal must be accompanied by all of the quality control test results and worksheets that represent each verification unit in question. The Contractor must also supply complete PG binder test results on all daily binder samples in question. The state will not accept appeals when Contractor test results are below the minimum specifications.

When an appeal is accepted, the appeal testing must include all specification parameters for the material in question. If the appeal is not accepted, the Department will submit a denial letter to the Contractor, stating the grounds for the denial.

Appeal testing must be conducted by an independent, AASHTO accredited laboratory, mutually acceptable to the Contractor and the Department. The AASHTO accredited laboratory will report the results to the Department. The results of such tests will be binding to both parties and any price reduction on the unit in question will be based on those test results. The Contractor will agree to bear the costs of the appeal testing if the tests verify noncompliance.

Anti-strip additives must be on the QPL before use, see Section 240.02.

230.11 Emulsified Asphalt. The supplier must submit, on an annual basis, a Quality Assurance Plan to the Central Materials Laboratory for emulsified asphalt, see Section 256.00.

A supplier's bill of lading must be furnished to the inspector with each load of liquid asphalt or emulsion supplied to the project. The bill of lading must contain the following information in accordance with Standard Specification Section 702.05 and 702.08:

- Date of delivery, project number, key number, county, bill of lading number, and name of customer.
- Product identification, tonnage, truck/trailer number, specific gravity, Saybolt viscosity for emulsified asphalt, and signed certification statement.
- Supplier's name, address, and phone number.

Department project inspectors only sample undiluted emulsified asphalt, as received from the Supplier, for verification testing in accordance with the individual bid schedule items in Section 270.00 Minimum Testing Requirements.

Department project inspectors perform field viscosity testing on sealcoat emulsions as required by the Minimum Testing Requirements in Section 270.00, Section 403 from the truck on the project site or at a location as close to the project as practical. The Contractor must provide a safe means for obtaining the emulsion samples, including but not limited to fall protection, heat resistant clothing and gloves, etc.

230.12 Seeding. All seed bags (Department or Contractor-supplied) must have the analysis (certification) tag attached and secured to each bag or container. Seed should be retested if seed tests are older than 9 months of the target seeding date.

230.12.01 Contractor Furnished Seed. Provide official certification tags with tests results for each seed species and verify it meets the contract specifications. Verify the company or person(s) providing the seed holds a valid Idaho Seed Dealer's License issued for the current year and must meet all provisions of the Idaho Pure Seed Law. Before acceptance, a member of the Association of Official Seed Certifying Agencies (AOSCA) or state laboratory must provide seed certification tags and test results as well as validate that the seed has been tested within the current year. The official AOSCA tag or report must accompany each species and be submitted to the Engineer at least sixty (60) working days before seeding. The official tag or report must indicate seed classification, seed germination rate, seed

germination purity, lot number, number of weed seeds, number of noxious weed seeds, and number of crop seeds. All restricted, prohibited, and noxious weed seeds found during testing must be displayed in an official AOSCA tag or report.

230.12.02 Department Furnished Seed. No additional seed tests are required for Department-supplied seed if the project meets all of the following parameters:

- Project has two acres or less to be seeded.
- Project is using seed from district stored seed inventory.
- Seed to be used has original certification tags attached to the bag(s).
- Seed tags indicate seed tests were conducted within one year from the date of seeding or seed was tested at ISDA for purity and germination rates within one year of the date the project will be seeded.
- Seed samples are taken and tested to verify seed germination rate and purity as well as absence of noxious weeds. Seed germination and purity can be drastically reduced between the time it is originally tested and when it is actually seeded. For this reason, the Department requests seed to be tested 6 weeks before seeding. If there is inconsistency with seed germination and/or purity information on the tags and the current test results, the Department can adjust the seeding rates in the field to obtain optimal seed germination and increase the success rate.

230.12.03 Seed Sampling and Testing. One random sample from unblended and individually packaged seed containers from each species and each lot must be obtained and placed in a one-gallon size heavy-duty zipped plastic bag (See note 1 below). The samples must be submitted to the Idaho State Seed Laboratory for analysis and verification. The sample must not be taken from the top layer of the container. Send the completed ITD-1044 form to the test lab with a copy of the seed certification tags and seed samples. Refer to the instructions for the ITD-1044 so all required information is included. Allow 30 days for testing and receiving official test results. The test results must show the seed meets the contract specifications before seeding. ISDA will email the test results to the Resident Engineer and copy the HQ Roadside Program Manager. After receiving the test results, contact the Roadside Program Manager for acceptable purity and germination limits and acceptable seeding rates before seeding. The test lab will return all useable seed if the Resident Engineer's address is shown on the ITD-1044.

Address: Idaho State Seed Lab
2240 Kellogg Lane
Boise, ID 83712

Note 1: Fill the one-gallon bag approximately half full for medium seed species including wheatgrasses, squirreltail, and wildrye (150 g). Fill the one-gallon bag approximately full for large seed including grain, Lupines, Biscuitroot, Bitterbrush and similar size seed, as well as Brome species and Woods Rose (550 g). Fill the one-gallon bag approximately one-quarter full for small seed species including fescues, saltgrass, alfalfa, clover, and blue flax (70 g). Fill the one-gallon bag approximately one-eighth full for very small seed species including bluegrasses, penstemon species, sagebrush,

rabbitbrush, globemallow, and yarrow, (40 g). All other large seed types require a full one-gallon bag. For species not covered here, refer to ISDA website for specific species sample weights: http://www.agri.state.id.us/Categories/Laboratories/Seed/sampleWeights.php

The State Seed Lab will bill the Resident Engineer for the testing. Contact the District Business Manager or District Records Inspector for charging the costs to the project.

230.13 Miscellaneous Items Accepted by Certification. Certification of miscellaneous materials is acceptable as defined in this section.

230.13.01 General Provisions. In addition to the materials discussed individually in Section 230.00, the following miscellaneous items may also be accepted on the basis of the manufacturer's or fabricator's (not the supplier unless the supplier is also the manufacturer) certification, using form ITD-851 signed by the manufacturer's representative who has quality control responsibility. The material must be manufactured in accordance with specification requirements. Each certification must detail the quantity of material furnished to the project under that certification. Laboratory test reports must also be furnished where applicable (e.g., steel mill test reports, wood preservative treatment reports).

230.13.02 List of Miscellaneous Materials Accepted on the Basis of the Manufacturer's or Fabricator's Certification. Table 230.1 lists miscellaneous items that may be accepted by certification. The manufacturer's or fabricator's certification will not preclude the sampling and testing of the material or its final acceptance or rejection on the basis of the test results. Project samples are to be taken, as indicated in the Minimum Testing Requirements (Section 270.00), for verification testing. Samples may also be taken and tested at the option of the Materials Engineer or Resident Engineer.

Visual inspection for obvious defects and handling and shipping damage should always be done. Where feasible, simple measurements of specified properties must be spot-checked at least once per project and recorded to verify certification (e.g., measuring length, mass per unit length, thickness of steel items).

Table 230.1 Miscellaneous Materials Accepted by Certification

Material	Standard Specification **Section**
Bearing Pads and Plates	507
Brick and Blocks, Masonry	Miscellaneous
Bridge Rail, Metal	504
Concrete, Rapid Set	Special Contract Provision
Delineators and Mileposts	617
Dowel Bars and Tie Bars for Concrete Pavement	409, 503, 510, 609, 611
Dust Oil	Miscellaneous
Electrical	Miscellaneous
Epoxies	Miscellaneous
Epoxy Patch	Miscellaneous
Guard Rail and Posts	612
H-Beam Piles	505
Illumination Poles and Bases	619
Joint Sealants and Sealers	409, 502, 625
Paint (only small quantities less than 25 gallons (100L))	504, 505, 627
Sewers (Storm and Sanitary)	605
Signs and Posts	616
Steel Shell Piling	505
Structural Bolts	504
Timber (Structural)	609, 612, 616
Traffic Signal Poles and Mast Arms	656

SECTION 240.00 PRE-TESTED AND PRE-QUALIFIED MATERIALS.

240.01 Pre-tested Materials. The following materials require pre-testing before acceptance on a project.

- Traffic Line Paint
- Glass Beads
- Curing Compound

The Department project personnel must verify the material/product is approved before use on a project. Those materials/products deemed acceptable will appear on the pre-approved list found on the ITD Central Materials Laboratory Intranet page or on a list obtained from the Central Materials Laboratory.

240.01.01 Bulk Material/Products Sampled at the Manufacturing Plant. A major portion of the pre-tested products are sampled at the manufacturer's plant for bulk production. The Central Materials Laboratory is responsible for obtaining the samples at the plants and testing such material.

240.01.02 Materials/Products Sampled at the Project. Department project personnel must obtain samples, or witness the sampling, at the project site when the lot/batch of traffic line paint, glass beads, or curing compound is not shown as pre-tested or pre-approved.

The samples will be obtained from the material delivered to the project and sent to the Central Materials Laboratory for testing. Allow 30 calendar days for the testing. The material must be accepted before use. The sample must be properly identified with sample date, sampler's name, the product & manufacturer, and the lot or batch number.

240.02 Pre-Qualified Materials. The Department established a Qualified Products List (QPL) to formalize the process for the use of pre-qualified products on Department highway projects. The list of pre-qualified products is disseminated via the Department's official website to department staff, materials suppliers, manufactures, consultants, and Contractors.

QPL products still need the appropriate tests and certifications required by the contract in order to be accepted on the project.

The QPL is administered by the Product Review Committee (PRC). Activities of the PRC are coordinated by the QPL Program Administrator. Details of the QPL program are described on the QPL webpage:

http://apps.itd.idaho.gov/apps/materials/QPL.aspx

Documentation (such as a printout of the QPL page showing approval of the item) must be placed in the project files and posted in the MSR for QPL items that were on ITD's QPL at the time of the project.

Modified 270 Section MTR Table with Additional Requirements. See Accompanying Buy America Summary Table for Construction Materials.

BID ITEM/ MATERIAL TYPE OF CONSTRUCTION	PURPOSE OF TESTING	ITD SPEC. REF. SAMPLED BY	TEST METHOD TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
STANDARD SPECIFICATION SECTION: **205 EXCAVATION AND EMBANKMENT**						
Excavation, Class C Compaction Excavated to top of subgrade or below Natural ground under embankments	ACCEPTANCE In-Place Density (1)	205.03-F	FOP for AASHTO T 99 FOP for AASHTO T 180 FOP for AASHTO T 272 Idaho IT-74 FOP for AASHTO T 310 Method B	ITD-850	Each 5,000 SY.	Document compaction effort (equipment, number of passes etc.) for lifts not tested. After remedial efforts, obtain check tests within 10 feet and at same depth as original test. See QA Manual Section 215.00
		ITD Project Personnel	ITD Project Personnel			
	INDEPENDENT ASSURANCE In-Place Density	IA Inspector	IA Inspector	ITD-857	1 observation per project	
Excavation Subgrade Embankment Fill	ACCEPTANCE In-Place Density (1)	205.03-F	FOP for AASHTO T 99 FOP for AASHTO T 180 FOP for AASHTO T 272 Idaho IT-74 FOP for AASHTO T 310 Method B	ITD-850	Each 2,500 CY or 4,000 tons but not less than 1 test per lift for each bottom 3 and each top 3 lifts and 1 test every 2,500 CY or 4,000 tons in between.	Document compaction effort (equipment, number of passes etc.) for lifts not tested. After remedial efforts, obtain check tests within 10 feet and at same depth as original test. See QA Manual Section 215.00
		ITD Project Personnel	ITD Project Personnel			
	INDEPENDENT ASSURANCE In-Place Density	IA Inspector	IA Inspector	ITD-857	1 observation per project	
(1) Document that the material is too granular to test on the ITD-850 by completing gradation, compaction effort (including equipment and roller passes), and SE (for granular borrow and if more than 5% passing the #200 sieve) at the same frequency as the required density acceptance.						
Note: Median areas and on slopes (approximate 2H:1V) that are outside the roadway prism where Class D compaction is required, fill out ITD-850 listing at least one coverage using Engineer approved track-type or rubber-tired earth moving equipment.						

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	BID ITEM/ MATERIAL TYPE OF CONSTRUCTION	PURPOSE OF TESTING	ITD SPEC. REF. SAMPLED BY	TEST METHOD TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
205-2	Borrow Subgrade Embankment Fill	ACCEPTANCE In-Place Density (1)	205.03 -F	FOP for AASHTO T 99 FOP for AASHTO T 180 FOP for AASHTO T 272 Idaho IT-74 FOP for AASHTO T 310 Method B	ITD-850	Each 2,500 CY or 4,000 tons but not less than 1 test per lift for each bottom 3 and each top 3 lifts and 1 test every 2,500 CY or 4,000 tons in between.	Document compaction effort (equipment, number of passes etc.) for lifts not tested. After remedial efforts, obtain check tests within 10 feet and at same depth as original test. See QA Manual Section 215.00
			ITD Project Personnel	ITD Project Personnel			
		INDEPENDENT ASSURANCE In-Place Density	IA Inspector	IA Inspector	ITD-857	1 observation per project	
	Granular Borrow Subgrade Embankment Fill	ACCEPTANCE In-Place Density (1)	205.03 -F	FOP for AASHTO T 99 FOP for AASHTO T 180 FOP for AASHTO T 272 Idaho IT-74 FOP for AASHTO T 310 Method B	ITD-850	Each 5,000 CY but not less than one test per lift for each bottom 3 and each top 3 lifts and 1 test every 5,000 CY in between.	Document compaction effort (equipment, number of passes etc.) for lifts not tested. After remedial efforts, obtain check tests within 10 feet and at same depth as original test. See QA Manual Section 215.00
			ITD Project Personnel	ITD Project Personnel			
		INDEPENDENT ASSURANCE In-Place Density	IA Inspector	IA Inspector	ITD-857	1 observation per project	
		ACCEPTANCE Sand Equivalent (2)	205.02	FOP for AASHTO T 27 FOP for AASHTO T 11 FOP for AASHTO T 176 Alt. Method 2, Mechanical	ITD-901	Each 10,000 CY	Sand equivalent requirements do not apply to Recycled Asphalt Pavement (RAP) used as granular borrow.
			ITD Project Personnel	ITD Project Personnel			
		INDEPENDENT ASSURANCE Sand Equivalent	IA Inspector	IA Inspector	ITD-857	Each 200,000 CY	
	Soft Spot Repair	ACCEPTANCE In-Place Density (1)	205.03 -E	FOP for AASHTO T 99 FOP for AASHTO T 180 FOP for AASHTO T 272 Idaho IT-74 FOP for AASHTO T 310 Method B	ITD-850	Each repair area or combination of areas but not less than each 300 SF	
			ITD Project Personnel	ITD Project Personnel			

(1) Document that the material is too granular to test on the ITD-850 by completing gradation, compaction effort (including equipment and roller passes), and SE (for granular borrow and if more than 5% passing the #200 sieve) at the same frequency as the required density acceptance.

(2) Sand Equivalent is not required if the material has less than 5% passing the No. 200 sieve in accordance with AASHTO T 27/T 11. Document on Form ITD-901.

Note: Median areas and on slopes (approximate 2H:1V) that are outside the roadway prism where Class D compaction is required, fill out ITD-850 listing at least one coverage using Engineer approved track-type or rubber tired-earth moving equipment.

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF.	TEST METHOD	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
TYPE OF CONSTRUCTION		**SAMPLED BY**	**TESTED BY**			
STANDARD SPECIFICATION SECTION: **209 – SMALL DITCHES**						
Small Ditches When constructed upon dikes	ACCEPTANCE In-Place Density (1)	205.03 -F 209.03	FOP for AASHTO T 99 FOP for AASHTO T 180 FOP for AASHTO T 272 Idaho IT-74 FOP for AASHTO T 310 Method B	ITD-850	1 per project	Testing required only when constructed upon dikes per Standard Specification Subsection 209.03.
		ITD Project Personnel	ITD Project Personnel			
	INDEPENDENT ASSURANCE In-Place Density	IA Inspector	IA Inspector	ITD-857	1 observation per project	
(1) Document that the material is too granular to test on the ITD-850 by completing gradation, compaction effort (including equipment and roller passes), and SE (for granular borrow and if more than 5% passing the #200 sieve) at the same frequency as the required density acceptance.						
Note: Median areas and on slopes (approximate 2H:1V) that are outside the roadway prism where Class D compaction is required, fill out ITD-850 listing at least one coverage using Engineer approved track-type or rubber-tired earth moving equipment.						

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BID ITEM/ MATERIAL TYPE OF CONSTRUCTION	PURPOSE OF TESTING	ITD SPEC. REF. SAMPLED BY	TEST METHOD TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
210	STANDARD SPECIFICATION SECTION: **210 – COMPACTING BACKFILL**					
Compacting Backfill (Structure Backfill)	ACCEPTANCE In-Place Density (1)	210.03 ITD Project Personnel	FOP for AASHTO T 99 FOP for AASHTO T 180 FOP for AASHTO T 272 Idaho IT-74 FOP for AASHTO T 310 Method B ITD Project Personnel	ITD-850	Each 2,500 CY or 4,000 tons for each structure component. Abutments for Bridge approach slabs not less than one test per 8-in compacted lift.	Document compaction effort for each lift. After remedial efforts, obtain check tests within 10 feet and at same depth as original test. See QA Manual Section 215.00
	INDEPENDENT ASSURANCE In-Place Density	IA Inspector	IA Inspector	ITD-857	1 observation per project	
Compacting Backfill (Pipe Backfill)	ACCEPTANCE In-Place Density (1)	210.03 ITD Project Personnel	FOP for AASHTO T 99 FOP for AASHTO T 180 FOP for AASHTO T 272 Idaho IT-74 FOP for AASHTO T 310 Method B ITD Project Personnel	ITD-850	Each 200 LF of pipe installed, but no less than1 test per pipe installed.	A pipe is considered the total continuous length as shown on the project pipe summary sheet.
	INDEPENDENT ASSURANCE In-Place Density	IA Inspector	IA Inspector	ITD-857	1 observation per project	
Compacting Backfill (Retaining Wall Backfill)	ACCEPTANCE In-Place Density (1)	210.03 ITD Project Personnel	FOP for AASHTO T 99 FOP for AASHTO T 180 FOP for AASHTO T 272 Idaho IT-74 FOP for AASHTO T 310 Method B ITD Project Personnel	ITD-850	Each 2,500 CY or 4,000 Tons	Document compaction effort for each lift. After remedial efforts, obtain check tests within 10 feet and at same depth as original test. See QA Manual Section 215.00
	INDEPENDENT ASSURANCE In-Place Density	IA Inspector	IA Inspector	ITD-857	1 observation per project	
(1) Document that the material is too granular to test on the ITD-850 by completing gradation, compaction effort (including equipment and roller passes), and SE (for granular borrow and if more than 5% passing the #200 sieve) at the same frequency as the required density acceptance.						
Note: Median areas and on slopes (approximate 2H:1V) that are outside the roadway prism where Class D compaction is required, fill out ITD-850 listing at least one coverage using Engineer approved track-type or rubber-tired earth moving equipment.						

BID ITEM/ MATERIAL TYPE OF CONSTRUCTION	PURPOSE OF TESTING	ITD SPEC. REF. SAMPLED BY	TEST METHOD TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS	
STANDARD SPECIFICATION SECTION: **212 – EROSION AND SEDIMENT CONTROL**							212-1
Slope Drain	ACCEPTANCE Certification	212.03-B 706 Manufacturer	Manufacturer	ITD-914 with mill test report attached for steel/iron ITD-851 (All other material)	Total Quantity Paid ITD-915	See QA Manual Section 230.01 and Section 230.03 If Specification requires removal then ITD-914 is not required	
Fiber Wattles	ACCEPTANCE Certification	711.20 Manufacturer	Manufacturer	ITD-851	Total Quantity Paid	Certified noxious weed-free grain straw	
Sediment Trap	ACCEPTANCE (Erosion Control Geotextile) Certification	212.03-B Manufacturer	Manufacturer	ITD-849	Total Quantity Paid	See QA Manual Section 230.09	
Silt Fence	ACCEPTANCE Certification	212.03-B 718.09 Manufacturer	Manufacturer	ITD-849	Total Quantity Paid	See QA Manual Section 230.09	
Diversion Channels and Ditches	ACCEPTANCE Inspection	212.03-B No sample required	No testing required	ITD-854	Total Quantity Paid	RE Letter-See QA Manual Section 250.00	
	ACCEPTANCE Certification	212.03-B Manufacturer	Manufacturer	ITD-849 (When Erosion Control Geotextile used)	Total Quantity Paid	See QA Manual Section 230.09	
Dikes and Berms	ACCEPTANCE Inspection	212.03 -B No sample required	No testing required	ITD-854	Total Quantity Paid	RE Letter-See QA Manual Section 250.00	
Open-top Culvert	ACCEPTANCE Inspection	212.03-B No sample required	No testing required	ITD-854	Total Quantity Paid	RE Letter-See QA Manual Section 250.00	
Water Bar	ACCEPTANCE Inspection	212.03-B No sample Required	No testing Required	ITD-854	Total Quantity Paid	RE Letter-See QA Manual Section 250.00	

	BID ITEM/ MATERIAL TYPE OF CONSTRUCTION	PURPOSE OF TESTING	ITD SPEC. REF. SAMPLED BY	TEST METHOD TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
212-2	Siltation Berm	ACCEPTANCE Inspection	212.03-B No sample Required	 No testing Required	ITD-854	Total Quantity Paid	RE Letter-See QA Manual Section 250.00
	Stabilized Construction Entrance	ACCEPTANCE Inspection	212.03-B No sample Required	 No testing Required	ITD-854	Total Quantity Paid	RE Letter-See QA Manual Section 250.00
		ACCEPTANCE (Erosion Control Geotextile) Certification	212.03-B Manufacturer	 Manufacturer	ITD-849	Total Quantity Paid	See QA Manual Section 230.09
	Soil Binder	ACCEPTANCE Certification	212.03-B Manufacturer	 Manufacturer	ITD-851	Total Quantity Paid	Certification of non-toxic properties
	Gabion	FOLLOW MTR TABLE STANDARD SPECIFICATION SECTION 512					
	Revet Mattress	FOLLOW MTR TABLE STANDARD SPECIFICATION SECTION 512					
	Stone Filter Berms/Dams	ACCEPTANCE Inspection	212.03-C Permanent Measures No sample required	 No testing required	ITD-854	Total Quantity Paid	RE Letter-See QA Manual Section 250.00
	Sediment Basin	ACCEPTANCE Inspection	212.03-C Permanent Measures No sample required	 No testing required	ITD-854	Total Quantity Paid	RE Letter-See QA Manual Section 250.00

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS	
STANDARD SPECIFICATION SECTION: **301- GRANULAR SUBBASE**							
Aggregate	ACCEPTANCE Gradation(1) Sand Equivalent	301.02 703.11	FOP for AASHTO R 90 FOP for AASHTO R 76 FOP for AASHTO T 27 FOP for AASHTO T 255 FOP for AASHTO T 265 FOP for AASHTO T 176 Alt. Method 2, Mechanical	ITD-901	Each 5,000 Tons or 3,000 CY	Acceptance from windrow or roadway. Wash method not required. Moisture percent required for payment only	
		ITD Project Personnel	ITD Project Personnel				
	INDEPENDENT ASSURANCE Gradation Sand Equivalent	IA Inspector	IA Inspector	ITD-857	Each 100,000 Tons		
(1) The test sample mass for sieve analysis will be determined using the nominal maximum size of the tested material according to FOP for AASHTO T27, except the maximum test sample mass, after reduction, will not be greater than 65 lb.							
Compacted Roadway	ACCEPTANCE In-Place Density	301.02	FOP for Idaho IT-74 FOP for AASHTO T 180 FOP for AASHTO T 310 Method B	ITD-850	Each 5,000 Tons	Contractor is responsible to provide FOP for Idaho IT 74 density curve.	
		ITD Project Personnel	ITD Project Personnel				
	INDEPENDENT ASSURANCE In-Place Density	IA Inspector	IA Inspector	ITD-857	1 observation per project		
Recycled Asphalt Pavement	ACCEPTANCE Gradation	301.02	Visual Inspection	ITD-854	Each 5,000 Tons		
		ITD Project Personnel	ITD Project Personnel				
	ACCEPTANCE In-Place Density	301.03	FOP for AASHTO T 310 Method B modified	ITD-854	Each 7,200 SY but not less than 1 test each lift		
		ITD Project Personnel	ITD Project Personnel				

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	BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
302	STANDARD SPECIFICATION SECTION: **302 – EMULSION TREATED BASE**						
	Emulsified Asphalt	ACCEPTANCE Certification	702.03 702.05 / Manufacturer	/ Manufacturer	Loading Certificate	Each shipment to the project	See QA Manual Section 230.11
		ACCEPTANCE Saybolt Viscosity Field Test	702.03 / ITD Project Personnel	Idaho IT 61 / ITD Project Personnel	ITD-1045	Test each load for Saybolt viscosity. **Reject failing loads.**	Do not sample emulsions from storage tank discharge lines.
		VERIFICATION Laboratory Tests[(1)]	702.03 / ITD Project Personnel	FOP for AASHTO R 66 AASHTO T 59 / ITD Central Materials Laboratory	ITD-1045	1 undiluted sample per project	[(1)]No samples for laboratory testing required when total project quantity is less than 2,000 Gal (8 tons).
	Aggregate (prior to mixing)	ACCEPTANCE Gradation Sand Equivalent Fracture Count	302.02 703.04 / ITD Project Personnel	FOP for AASHTO R 90 FOP for AASHTO R 76 FOP for AASHTO T 27 FOP for AASHTO T 11 FOP for AASHTO T 255 FOP for AASHTO T 265 FOP for AASHTO T 176 Alt.Method 2,Mechanical FOP for AASHTO T 335 Method 1 / ITD Project Personnel	ITD-901	Each 700 CY or 1,000 Tons	Acceptance at point of delivery prior to mixing. Moisture percent required for payment only
		INDEPENDENT ASSURANCE Gradation Sand Equivalent Fracture Count	IA Inspector	IA Inspector	ITD-857	Each 14,000 CY or 20,000 tons	
	Compacted Roadway	ACCEPTANCE In-Place Density	302.03 / ITD Project Personnel	FOP for AASHTO T 310 Method B / ITD Project Personnel	ITD-850	Each 700 CY or 1,000 Tons	
		INDEPENDENT ASSURANCE In-Place Density	IA Inspector	IA Inspector	ITD-857	1 observation per project	

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS	
STANDARD SPECIFICATION SECTION: **303 – AGGREGATE BASE**							
Aggregate	ACCEPTANCE Gradation Sand Equivalent Fracture Count	303.02 703.04	FOP for AASHTO R 90 FOP for AASHTO R 76 FOP for AASHTO T 27 FOP for AASHTO T 11 FOP for AASHTO T 255 FOP for AASHTO T 265 FOP for AASHTO T 176 Alt.Method 2,Mechanical FOP for AASHTO T 335 Method 1	ITD-901	Each 700 CY or 1,000 Tons	Acceptance from windrow or roadway. Moisture percent required for payment only	
		ITD Project Personnel	ITD Project Personnel				
	INDEPENDENT ASSURANCE Gradation Sand Equivalent Fracture Count	IA Inspector	IA Inspector	ITD-857	Each 14,000 CY or 20,000 tons		**303**
Compacted Roadway	ACCEPTANCE In-Place Density	303.02	FOP for AASHTO T 310 Method B	ITD-850	Each 700 CY or 1,000 tons	Contractor is responsible for providing an Idaho T 74 density curve.	
		ITD Project Personnel	ITD Project Personnel				
	INDEPENDENT ASSURANCE In-Place Density	IA Inspector	IA Inspector	ITD-857	1 observation per project		

	BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
304	STANDARD SPECIFICATION SECTION: **304 – RECONDITIONING**						
	Pulverizing Roadbed	ACCEPTANCE Gradation	304.03 / ITD Project Personnel	Visual Inspection / ITD Project Personnel	ITD-854	Prior to compaction each lane mile	
		ACCEPTANCE In-Place Density	304.03 / ITD Project Personnel	FOP for AASHTO T 310 Method A modified (CRABS) / ITD Project Personnel	ITD-1866 or ITD-854	Establish roller pattern every lane mile.	Acceptance at roadway.
	Soft Spot Repair	ACCEPTANCE In-Place Density	205.03 D 304.03 / ITD Project Personnel	FOP for AASHTO T 310 Method B / ITD Project Personnel	ITD-850	Each repair area or combination of areas but not less than each 1,500 SF	
307	STANDARD SPECIFICATION SECTION: **307 – OPEN-GRADED BASE**						
	Aggregate	ACCEPTANCE Gradation [1]	703.08 / ITD Project Personnel	FOP for AASHTO R 90 FOP for AASHTO R 76 FOP for AASHTO T 27 / ITD Project Personnel	ITD-901	Each 1,800 CY or 2,500 Tons	Acceptance at Crusher Conveyor Belt Reducing & wash method not required for Class I & II Drying to constant mass is not required for Class I & II
		INDEPENDENT ASSURANCE Gradation	IA Inspector	IA Inspector	ITD-857	Each 14,000 CY or 20,000 Tons	Field Test samples will be used for IA evaluation. No split samples required.
		ACCEPTANCE In-place Density	307.03 / ITD Project Personnel	Method Specification / ITD Project Personnel	ITD-850	Each 3,000 LF but not less than once per day	
	[1] The minimum test sample mass for FOP for AASHTO T27 Sieve Analysis will be 65 lb. for Class 1, 50 lb. for Class II and 25 lb. for Class III.						

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS	
STANDARD SPECIFICATION SECTION: **308 - CEMENT RECYCLED ASPHALT BASE STABILIZATION (CRABS)**							308
Cement	ACCEPTANCE Certification	701.01 / Manufacturer	AASHTO M 85 / Manufacturer	Bill of Lading with chemical analysis attached	Weekly	See QA Manual Sections 230.02 and 230.02.01	
Pulverizing Roadbed	ACCEPTANCE Gradation	308.03 / ITD Project Personnel	Visual Inspection / ITD Project Personnel	ITD-854	Prior to compaction each lane mile		
Compacted Roadway	ACCEPTANCE In-Place Density	308.03 / ITD Project Personnel	FOP for AASHTO T 310 Method A modified (CRABS) / ITD Project Personnel	ITD-850 ITD-1866	Verify the contractor met the density specification every lane mile or when mixture properties changes	Acceptance at roadway.	

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS	
STANDARD SPECIFICATION SECTION: **401 - TACK COAT**							401
Emulsified Asphalt	ACCEPTANCE Certification	702.03 702.05 Manufacturer	Manufacturer	Loading Certificate	Each individual truck, trailer, car or shipment to the project.	See QA Manual Section 230.11	
	VERIFICATION Laboratory Tests	702.03 ITD Project Personnel	FOP for AASHTO R 66 AASHTO T 59 ITD Central Materials Laboratory	ITD-1045	1 undiluted sample (as received from the asphalt supplier) per project	No samples required when total project quantity is less than 2,000 Gal 8 Tons.	
Distributors will be calibrated each season. The Contractor will submit a valid calibration certification for the distributor before beginning work. Calibrate the distributor according to ASTM D2995.							
STANDARD SPECIFICATION SECTION: **402 - PRIME COAT**							402
Emulsified Asphalt	ACCEPTANCE Certification	702.03 702.05 Manufacturer	Manufacturer	Loading Certificate	Each individual truck, trailer, car or shipment to the project.	See QA Manual Section 230.11	
	VERIFICATION Laboratory Tests	702.03 ITD Project Personnel	FOP for AASHTO R 66 AASHTO T 59 ITD Central Materials Laboratory	ITD-1045	1 undiluted sample (as received from the asphalt supplier) per project	No samples required when total project quantity is less than 2,000 Gal 8 Tons.	
Distributors will be calibrated each season. The Contractor will submit a valid calibration certification for the distributor before beginning work. Calibrate the distributor according to ASTM D2995.							
Blotter	ACCEPTANCE Gradation	703.07 402.02 ITD Project Personnel	FOP for AASHTO R 90 FOP for AASHTO R 76 FOP for AASHTO T 27 FOP for AASHTO T 11 ITD Project Personnel	ITD-901	1 field gradation per source.	Sample at point of loading to the project.	
STANDARD SPECIFICATION SECTION: **403 CHIP SEAL WARRANTY**							403
Warranty Seal Coat (Cover Coat Material)	ACCEPTANCE Certification	403 Contractor	FOP for AASHTO T 27 FOP for AASHTO T 335 Method 1 Contractor		1 test per 400 tons	Provide Quality control testing results for the Engineer's records.	
Warranty Seal Coat (Blotter)	ACCEPTANCE Certification	403 Contractor	FOP for AASHTO T 27 FOP for AASHTO T 335 Method 1 Contractor		1 test per 400 tons	Provide Quality control testing results for the Engineer's records.	
Warranty Seal Coat	Design of Seal Coats	403 Contractor	McLeod Method Contractor	The Contractor furnishes the Seal Coat Mix Design			
	FINAL ACCEPTANCE	403 ITD Project Personnel	McLeod Method ITD Project Personnel	ITD 854	The Engineer will conduct a field review of the project the following April. Final acceptance and payment will be made based on the field review. RE Letter See QA Manual Section 250.00		

	BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
	STANDARD SPECIFICATION SECTION: **404 SURFACE TREATMENT**						
404-1	Asphalt & Cover Coat Material	Design of Seal Coats	404 703 / ITD Project Personnel	Idaho IR 63 / ITD District Lab		The Contractor furnishes the seal coat design.	Asphalt & Cover Coat Material
	Distributors will be calibrated each season. The Contractor will submit a valid calibration certification for the distributor before beginning work. Calibrate the distributor according to ASTM D2995.						
	Emulsified Asphalt	ACCEPTANCE Saybolt Viscosity Field Test	702.03 / ITD Project Personnel	FOP for AASHTO R 66 Idaho IT 61 / ITD Project Personnel	ITD-1045	Test each load for Saybolt viscosity. If the district Saybolt viscosity result is outside specified limits**, reject the load.**	Do not sample emulsions from storage tank discharge lines.
		ACCEPTANCE Certification	702.03 702.05 / Manufacturer	Manufacturer	Loading Certificate	Each individual truck, trailer, car or shipment to the project.	See QA Manual Section 230.11
		VERIFICATION Laboratory Tests	702.03 / ITD Project Personnel	FOP for AASHTO R 66 AASHTO T 59 / ITD Central Materials Laboratory	ITD-1045	Each 25,000 Gal or 100 Tons	No samples required when total project quantity is less than 2,000 Gal 8 Tons.
		INDEPENDENT ASSURANCE Viscosity Field Test	IA Inspector	IA Inspector	ITD-857	1 observation of Saybolt viscosity per project.	See QA Manual Sections 330.00 & 380.00
	PG. Binder	ACCEPTANCE Certification	702.01 702.05 / Manufacturer	Manufacturer	ITD-966 OR manufacturer certification / Loading Certificate	Initial lot & each new lot to project / Each shipment to project	See QA Manual Sections 230.10 & 255.00
		VERIFICATION Laboratory Tests	702.01 / ITD Project Personnel	FOP for AASHTO R 66 AASHTO M 320 / ITD Central Materials Laboratory	ITD-859 ITD-859AW *(ITD-859AW is the Central Materials Laboratory Report)*	1 sample (3 quart cans) per shift combined into weekly binder verification unit. Sampled from the line between the storage tank (or the delivery truck) and the mix plant. Purge one gallon from the injection line valve before taking sample	No samples required when total project quantity is less than 22 tons

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS	
Anti-Strip Additive	ACCEPTANCE Presence of Anti-Stripping Additive	702.04	Idaho IT 99 (color method only)	ITD-859	Test the initial truck & trailer prior to unloading into the contractor's storage tank. Thereafter, test at same frequency as sampling of asphalt. Purge one gallon from the injection line valve before taking sample.	If anti-strip cannot be detected, the supplier must add the anti-strip on-site.	404-2
		ITD Project Personnel	ITD Project Personnel				
Cover Coat Material	ACCEPTANCE Gradation Cleanness Value Fracture Count	703.06	FOP for AASHTO R 90 FOP for AASHTO R 76 FOP for AASHTO T 27 FOP for AASHTO T 11 Idaho IT 72 FOP for AASHTO T335 Method 1	ITD-901	Each 280 CY or 400 Tons 26,000 yd^2	Sample at point of loading to the roadway	
		ITD Project Personnel	ITD Project Personnel				
	INDEPENDENT ASSURANCE Gradation Cleanness Value Fracture Count	IA Inspector	IA Inspector	ITD-857	Each 5,600 CY or 8,000 Tons .		
Blotter	ACCEPTANCE Gradation	703.07 404.02	FOP for AASHTO R 90 FOP for AASHTO R 76 FOP for AASHTO T 27 FOP for AASHTO T 11	ITD-901	1 field gradation per source.	Sample at point of loading to the project.	
		ITD Project Personnel	ITD Project Personnel				
Choke Sand	ACCEPTANCE Gradation	703.07 404.02	FOP for AASHTO R 90 FOP for AASHTO R 76 FOP for AASHTO T 27 FOP for AASHTO T 11	ITD-901	1 per day	Sample at point of loading to the project.	
		ITD Project Personnel	ITD Project Personnel				

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
STANDARD SPECIFICATION SECTION: **405 - SUPERPAVE HOT MIX ASPHALT**						
Performance Graded Binder	ACCEPTANCE Certification	702.01 702.05		ITD-966 OR manufacturer certification	Initial lot & each new lot to project	See QA Manual Sections 230.10
		Manufacturer	Manufacturer	Loading Certificate	Each shipment to project	
	VERFICATION Laboratory Tests	FOP for AASHTO R 66 AASHTO M 320	FOP for AASHTO R 66	ITD-859 ITD-859AW *(ITD-859AW is the Central Materials Laboratory Report)*	1 sample (3 quart cans) per shift combined into weekly binder verification unit. Sampled from the line between the storage tank (or the delivery truck) and the mix plant. Purge one gallon from the injection line valve before taking sample	No samples required when total quantity is less than 22 Tons See QA Manual Section 230.10
		ITD Project Personnel	TD Central Materials Lab			
Anti-Strip Additive	ACCEPTANCE Presence of Anti-Stripping Additive	702.04	Idaho IT 99	ITD-859	Test at same frequency as sampling of asphalt binder	If anti-strip cannot be detected, add additional anti-strip. The binder will be sampled and tested until a positive result is determined. (green or blue color)
		ITD Project Personnel	ITD Project Personnel			
Superpave HMA for Acceptance Test Strip	CONSTRUCTION of Test Strip by Contractor	405.03	Idaho IR 125	ITD-891 (Completed by Contractor)	2 locations per Test Section	Contractor establishes roller pattern.
	ACCEPTANCE (1) (Aggregate Cold Feed Samples) Sand Equivalent Fracture Flat and/or Elongated Particles Fine Aggregate Angularity	405.02 405.03H 405.03F 703.05	Idaho IR 125 FOP for AASHTO R 90 FOP for ASHTO R 76 FOP for AASHTO T 176 Alt.Method 2,Mechanical FOP for AASHTO T 335 Method 1 Idaho FOP ASTM D4791 Idaho FOP AASHTO T 304	ITD-1046 ITD-772	**3 cold feed increments per test strip.	Random Samples per Idaho IR 125 (1)Combine cold feed increments into a composite sample to determine test strip acceptance.
		Contractor	ITD District Project Personnel			
	INDEPENDENT ASSURANCE	IA Inspector	IA Inspector	ITD-857	Each 15,000 Tons	
**When multiple test strips are required due to failures, the passing aggregate properties determined from the original cold feed sample will be used for subsequent test strips.						

	BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
405-2	Superpave HMA for Acceptance Test Strip (Cont.)	ACCEPTANCE (2) (Loose Mix Samples) Air Voids Asphalt Content Gradation Voids in Mineral Aggregate (VMA) (3) Voids Filled With Asphalt (VFA) Dust to Binder Ratio (DP) Moisture Content Rut Depth (4)	405.02 405.03-H 405.03-I	Idaho IR 125 FOP for AASHTO R 97 * FOP for AASHTO R 47 FOP for AASHTO T 166 Method A or AASHTO T 331 FOP for AASHTO T 209 Bowl Method AASHTO T 269 FOP for AASHTO T 308 FOP for AASHTO T 30 FOP for AASHTO T329 FOP for AASHTO T 312 AASHTO T 340(4)	ITD-773 ITD-772	3 per test section. Each sample must be at least 100 lb.	Random sample locations per Idaho IR125 *See Note 405-6 (2) Test results for each loose mix sample are averaged for each test section to determine test section acceptance. (3) For calculating VMA use the combined aggregate bulk specific gravity, G_{sb}, determined by the Engineer (4) For SP 3 and SP5 mixes only
			Contractor	HQ Central Lab/District Lab			
		Note: Test Strip mix verification testing will be performed by HQ Central Lab or District lab. District Labs must be qualified by HQ Central Lab in order to perform Superpave Test Strip testing. Contact Central Materials Laboratory Manager for details: Phone: (208) 334-8453					
		INDEPENDENT ASSURANCE	IA Inspector	IA Inspector	ITD-857	Observation of loose mix testing performed by District Lab every 90 days.	

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS	
STANDARD SPECIFICATION SECTION: **405 - SUPERPAVE HOT MIX ASPHALT**							
Superpave HMA for Acceptance Test Strip (Cont.)	Density (5) GAUGE CORRELATION	405.03-L	Idaho IR 125 FOP for AASHTO T 355 Alt. Method No. 1 (Backscatter mode)	ITD-820	5 per test section	Use same cores that were taken for density acceptance. (5) Each gauge to be used on the project for QC or acceptance testing must be correlated on the test strip. Gauge readings for each core must be obtained at each test site prior to coring using each gauge. Each gauge will have a unique correlation factor. Form ITD-820 is completed for each gauge.	405-3
		Contractor	Contractor and ITD District Project Personnel				
	ACCEPTANCE(6) Cores Density (Percent Compaction)	405.03-L	Idaho IR 125 FOP for AASHTO R 67 FOP for AASHTO T 166 Method A FOP for AASHTO T 331 ASTM D7227	ITD-892 ITD-772	5 per test section.	Random sample locations per Idaho IR 125 (6) Test section densities are calculated as the average percent compaction of all cores from the test section using the average G_{mm} of the test section.	
		Contractor	ITD Project Personnel				
	INDEPENDENT ASSURANCE	IA Inspector	IA Inspector	ITD-857	Observation of core testing performed by Project Personnel every 90 days		

	BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
405-4	Production Paving SP2	ACCEPTANCE Loose Mix from Roadway Asphalt Content Gradation Moisture G_{mm}	405.03 ITD Project Personnel	FOP for AASHTO R 97* FOP for AASHTO R 47 FOP for AASHTO T 329 FOP for AASHTO T 308 FOP for AASHTO T 30 FOP for AASHTO T 209 Bowl Method ITD Project Personnel	ITD-833	Each 750 Tons Each sample must be at least 50 lb	Random sample locations *See page 405-6 G_{mm} results will be used in density determination below
		INDEPENDENT ASSURANCE Sampling Asphalt Content Gradation Moisture	IA Inspector	IA Inspector	ITD-857	1 observation each project.	
		ACCEPTANCE Density (Percent Compaction) (Density using correlated density gauge)	405.03 ITD Project Personnel	FOP for AASHTO T 355 Alt. Method No. 1 (Backscatter Mode) ITD Project Personnel	ITD-855	Each 750 Tons	Test at random locations . The G_{mm} for determining the percent compaction will be determined using a rolling, consecutive 2-lot average (i.e., the most recent 2 completed lots) of the Department's G_{mm} test results. For the first lot of production paving, the test strip G_{mm} corresponding to the C-JMF is used for determining percent compaction.
		INDEPENDENT ASSURANCE Density (Percent Compaction)	IA Inspector	IA Inspector	ITD-857	1 observation each project	

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS	
Production Paving SP3, SP5	ACCEPTANCE Loose Mix from Roadway Air Voids VMA Moisture	405.03	FOP for AASHTO R 97* FOP for AASHTO R 47 FOP for AASHTO T 329 FOP for AASHTO T 308 FOP for AASHTO T 166 Method A FOP for AASHTO T 331 FOP for AASHTO T 209 Bowl Method AASHTO T 269 FOP for AASHTO T 312	ITD-833 ITD-777	Each 750 Tons Each sample must be at least 50 lb	Random Sample Locations * See page 405-6	405-5
		ITD Project Personnel	ITD Project Personnel				
	INDEPENDENT ASSURANCE Sampling Air Voids VMA Moisture	IA Inspector	IA Inspector	ITD-857	1 observation each project.	Observation of the tests that are performed to calculate air voids, VMA, and Moisture	
	ACCEPTANCE Density (Percent Compaction) (Density using correlated density gauge)	405.03	FOP for AASHTO T 355 Alt. Method No. 1 (Backscatter Mode)	ITD-855	Each 750 Tons	Test at random locations The G_{mm} for determining the percent compaction will be determined using a rolling, consecutive 2-lot average (i.e., the most recent 2 completed lots) of the Department's acceptance test results. For the first lot of production paving, the test strip G_{mm} corresponding to the C-JMF is used for determining percent compaction.	
		ITD Project Personnel	ITD Project Personnel				
	INDEPENDENT ASSURANCE Density (Percent Compaction)	IA Inspector	IA Inspector	ITD-857	1 observation each project		
Production Paving Non-structural and Temporary, except on NHS.***	ACCEPTANCE Certification	405.03		ITD-851	Total Quantity Paid	ITD Project Inspector documents visual inspection.	
		Manufacturer	Manufacturer				

*** Temporary paving on the NHS with divided highways will require the same mix design as the mainline paving. Acceptance will be by density; the average percent compaction of 3 random cores must be greater than 90.0%. A random loose mix sample will be obtained to determine the theoretical maximum specific gravity, (G_{mm}). Sampling will be by the Contractor; testing by the State.

	BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
405-6	Production Paving when an acceptance test strip is not required, *regardless of the class of SuperPave mix* and the total quantity is <u>greater than</u> one frequency. Contractor will sample (Department will witness sampling) and ITD will test for acceptance	ACCEPTANCE Loose Mix from Roadway Asphalt Content Gradation Moisture	405.03	FOP for AASHTO R 97 * FOP for AASHTO R 47 FOP for AASHTO T 329 FOP for AASHTO T 308 FOP for AASHTO T 30	ITD-833	Each 750 Tons	* See page 405-6 SP2 Specification Limits apply.
			ITD Project Personnel	ITD Project Personnel			
		INDEPENDENT ASSURANCE Sampling Asphalt Content Gradation Moisture	IA Inspector	IA Inspector	ITD-857	1 observation each project of more than 2,250 tons.	
		ACCEPTANCE Density (Percent Compaction)	405.03 405.03-L	FOP for AASHTO R 67 FOP for AASHTO R 97 * FOP for AASHTO T 166 Method A FOP for AASHTO T 331 FOP for AASHTO T 209 (Bowl Method) ASTM D7227	ITD-773 ITD-892	5 Stratified Random Cores per phase of project	* See page 405-6 Density (percent compaction) acceptance will be determined from the average of the cores. The average max. specific gravity, (G_{mm}) from the loose mix samples will be used to determine core density (percent compaction).
			Contractor	ITD Project Personnel			
	Production Paving When an acceptance test strip is not required, *regardless of the class of SuperPave mix* and the total quantity is less than one frequency.	FOLLOW SECTION 270.04 ACCEPTANCE BY SMALL QUANTITIES Density acceptance will be determined from the average of cores.					
	* The plate method is the primary method for obtaining samples from the roadway. For the lifts, less than 0.2', the samples may be obtained from the plant using an attached sampling device or sample from haul units.						

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS	
Surface Smoothness	ACCEPTANCE Profiler	405.03-P / Contractor	AASHTO R 57 / Contractor	Contractor furnishes IRI QC test results to Engineer by next calendar day following placement. Acceptance testing to be completed on final lift within 1 week of completion of paving			405-7
	VERIFICATION Profiler	405.03-P / ITD Project Personnel	ITD Project Personnel	ITD-854 ITD-769	Fully witnessed with report		
Pavement Reinforcement Fabric	ACCEPTANCE Certification	718.02 718.08 / Manufacturer	Manufacturer	ITD-849 with QC test results attached ITD-915	Total Quantity Paid	See QA Manual Section 230.09	
	VERIFICATION Laboratory Tests	718.03 718.08 / ITD Project Personnel	ASTM D4632 ASTM D4533 ASTM D6140 / HQ Central Lab	ITD-1044 (Sample Data) ITD-1047 (Lab Report)	1 sample from each manufacturer-identified lot for each type		

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS	
STANDARD SPECIFICATION SECTION: **406 - ROAD MIX & 407 SCRUB COAT**							**406/407-1**
Aggregate	ACCEPTANCE Gradation Sand Equivalent Fracture Count	703 406.02 407.02	FOP for AASHTO R 90 FOP for AASHTO R 76 FOP for AASHTO T 27 FOP for AASHTO T 11 FOP for AASHTO T 176 Alt Method 2, Mechanical FOP for AASHTO T 335 Method 1	ITD-901	Each 700 CY or 1,000 Tons	Sample at point of loading to the roadway	
		ITD Project Personnel	ITD Project Personnel				
	INDEPENDENT ASSURANCE Gradation Sand Equivalent Fracture Count	IA Inspector	IA Inspector	ITD-857	Each 14,000 CY or 20,000 Tons .		
Emulsified Asphalt	ACCEPTANCE Certification	702.03 702.05		Loading Certificate	Each individual truck, trailer, car or shipment	See QA Manual Section 230.11	
		Manufacturer	Manufacturer				
	VERIFICATION Laboratory Tests	702.03	FOP for AASHTO R 66 AASHTO T 59	ITD-1045	Each 100 tons	No samples required when total project quantity is less than 2,000 Gal 8 Tons	
		ITD Project Personnel	ITD Central Materials Laboratory				
PG. Binder	ACCEPTANCE Certification	702.01 702.05		ITD-966 OR manufacturer certification	Initial lot & each new lot to project	See QA Manual Sections 230.10 & 255.00	
		Manufacturer	Manufacturer	Loading Certificate	Each shipment to project		
	VERIFICATION Laboratory Tests	702.01	AASHTO M 320 FOP for AASHTO R 66	ITD-859 ITD-859AW *(ITD-859AW is the Central Materials Laboratory Report)*	One (1) sample (3 quart cans) per shift combined into weekly binder verification unit. Sampled from the line between the storage tank (or the delivery truck) and the mix plant. Purge one gallon from the injection line valve before taking sample	No samples required when total project quantity is less than 22 tons See QA Manual Section 255.00	
		ITD Project Personnel	ITD Central Materals Laboratory				
Distributors will be calibrated each season. The Contractor will submit a valid calibration certification for the distributor before beginning work. Calibrate the distributor according to ASTM D2995.							

	BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
406/407-2	Anti-Strip Additive	ACCEPTANCE Presence of Anti-Striping Additive	702.04 / ITD Project Personnel	Idaho IT 99 / ITD Project Personnel	ITD-859	Test the initial truck & trailer prior to unloading into the contractor's storage tank. Thereafter, test at same frequency as sampling of asphalt binder.	If anti-strip cannot be detected, the supplier must add additional anti-strip. The binder will be sampled and tested until a positive result is determined. (Green or Blue color)
408	STANDARD SPECIFICATION SECTION: **408 - FOG COAT**						
	Emulsified Asphalt	ACCEPTANCE Certification	702.03 702.05 / Manufacturer	/ Manufacturer	Loading Certificate	Each individual truck, trailer, car or shipment	See QA Manual Section 230.11
		VERIFICATION Laboratory Tests	702.02 702.03 / ITD Project Personnel	FOP for AASHTO R 66 AASHTO T 59 / ITD Central Materials Laboratory	ITD-1045	One (1) undiluted sample (as received from the asphalt supplier) per project.	No samples required when total project quantity is less than 2,000 Gal 8 Tons.
	Blotter	ACCEPTANCE Gradation	703.07 408.02 / ITD Project Personnel	FOP for AASHTO R 90 FOP for AASHTO R76 FOP for AASHTO T 27 FOP for AASHTO T 11 / ITD Project Personnel	ITD-901	1 field gradation per source.	Sample at point of loading to the project.
	Distributors will be calibrated each season. The Contractor will submit a valid calibration certification for the distributor before beginning work. Calibrate the distributor according to ASTM D2995.						
415	STANDARD SPECIFICATION SECTION **415 - MICROSURFACING**						
	Aggregate	ACCEPTANCE Gradation Sand Equivalent	703 415 / ITD Project Personnel	FOP for AASHTO R 90 FOP for AASHTO R 76 FOP for AASHTO T 27 FOP for AASHTO T 11 FOP for AASHTO T 176 Alt. Method 2, Mechanical / ITD Project Personnel	ITD-901	Each 750 Tons or fraction thereof.	Acceptance at stockpile
	Polymer-modified Emulsified Asphalt	ACCEPTANCE Certification	702.03 702.05 / Manufacturer	/ Manufacturer	Loading Certificate	Each individual truck, trailer, car or shipment	See QA Manual Section 230.11
		VERIFICATION Laboratory Tests	702.03 / ITD Project Personnel	FOP for AASHTO R 66 AASHTO T 59 / ITD Central Materials Laboratory	ITD-1045	1 random undiluted sample (as received from the asphalt supplier) twice per day	

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS	
STANDARD SPECIFICATION SECTION: **430 – COLD IN-PLACE RECYCLING (CIR) PAVEMENT**							
Cold-in-Place Mix Design	Design of C.I.R.	430 / Contractor	/ Contractor		As needed	The Contractor furnishes the Design	
	FINAL ACCEPTANCE	430 / ITD Project Personnel	/ ITD Project Personnel	ITD-854			
Rolling for Recompaction	ACCEPTANCE In-Place Density	301.03 / ITD Project Personnel	FOP for AASHTO T 310 Method A Modified / ITD Project Personnel	ITD-25 Standard Diary	Each 7,200 SY each lift	After curing time of approximatly 5-7 days and a moisture content of less than 1.5% is reached the cold recycled pavement shall be recompacted by the same methodology as the initial compaction.	430-1
Cold-in-Place Recycled Pavement (C.I.R.)	ACCEPTANCE Gradation	403.02 / ITD Project Personnel	Visual Inspection / ITD Project Personnel	ITD-25 Standard Diary	1 per lane mile	See 430.02	
	ACCEPTANCE In-Place Density	301.02 / ITD Project Personnel	Visual Inspection / ITD Project Personnel	ITD-25 Standard Diary	Each 7,200 SY each lift	A roller pattern curve must be established with single shot (no rotation required). The required compaction is achieved when the final roller pass adds no more than 0.5 lb/ft3 to the previous in-place density.	

	BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
430-2	Emulsified Asphalt Recucling Agent (EARA)	ACCEPTANCE Certification	702.02 702.05 Manufacturer	AASHTO T 59 AASHTO T 53 AASHTO T 49 Manufacturer	Loading Certificate	Each individual truck, trailer, car or shipment to the project	See QA Manual Section 230.11
		VERIFICATION Laboratory Testing	702.03 ITD Project Personnel	FOP for AASHTO R 66 ITD Central Materials Laboratory	ITD-1045	Twice per day from random truck or triler onsite	No Samples required when total project quantity is less than 2000 Gal (8 Tons).
	Lime for Treated Recycled Pavement	ACCEPTANCE Certification	706.06 A Manufacturer	 Manufacturer	Bill of Lading with chemical analysis attached	Weekly	See 430.02
		VERIFICATION Laboratory Testing	ASTM C977 ITD Project Personnel	ASTM C50 ASTM C25 ASTM C110 ITD Central Materials Laboratory	ITD-1044 (Sample Data) ITD-1825 (Lab Report)	1 Sample per Project	See 430.02
	Cement	ACCEPTANCE Certification	701 Manufacturer	AASHTO M 85 Manufacturer	Bill of Lading with chemical analysis attached	Weekly	See QA Manual Section 230.02 and 230.02.01
		VERIFICATION Laboratory Testing	701 ITD Project Personnel	 ITD Central Materials Laboratory	ITD-1044 (Sample Data) ITD-1825 (Lab Report)	1 Sample per Project	See 430.02
	Water for C.I.R.	ACCEPTANCE Inspection	430.03 ITD Project Personnel	 ITD Project Personnel	ITD-25 Standard Diary	Daily Visual Inspection by ITD Personnel	See 430.02

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
STANDARD SPECIFICATION SECTION: **409 - PORTLAND CEMENT CONCRETE PAVEMENT**						
Concrete Ready-Mix Plant Inspection		ITD Project Personnel	ITD Project Personnel	ITD-893	1 per project	Inspection of plant is valid for 1 year.
Mix Design	CONFIRMATION (Mix samples not required for projects less than 2,500 CY)	409.01 409.03-A Contractor	ITD Central Lab	Central Lab will notify the Engineer of the confirmation	Submittal required 60 days prior to use	See QA Manual Section 260.02
	ACCEPTANCE (Water from other than a municipal drinking supply) Certification	720.01 Contractor	ASTM C1602 Independent Lab	Submit independent test results with mix design information	1 per project	Water from any municipal drinking supply does not require testing.
	ACCEPTANCE (Admixtures) Approved List	709.02 709.03 709.04 709.05 Manufacturer	ASTM C494 AASHTO M 154 Manufacturer	Qualified Products List		
Fine Aggregate	ACCEPTANCE Gradation Sand Equivalent	409.02 703.02 ITD Project Personnel	FOP for AASHTO R 90 FOP for AASHTO R 76 FOP for AASHTO T 27 FOP for AASHTO T 11 FOP for AASHTO T 176 Alt Method 2 Mechanical ITD Project Personnel	ITD-901 OR ITD-1043	Each 1,000 CY of concrete placed	Frequency applies to multiple concrete items from same concrete plant per project.
	INDEPENDENT ASSURANCE Gradation Sand Equivalent	IA Inspector	IA Inspector	ITD-857	Each 20,000 CY of concrete placed	
Coarse Aggregate	ACCEPTANCE Gradation	409.02 703.03 ITD Project Personnel	FOP for AASHTO R 90 FOP for AASHTO R 76 FOP for AASHTO T 27 ITD Project Personnel	ITD-901 OR ITD-1043	Each 1,000 CY of concrete placed	Frequency applies to multiple concrete items from same concrete plant per project. Wash method not required.
	INDEPENDENT ASSURANCE Gradation	IA Inspector	IA Inspector	ITD-857	Each 20,000 CY of concrete placed	

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	BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
409-2	Cement	ACCEPTANCE Certification	701.01 / Manufacturer	AASHTO M 85 or AASHTO M 240 Total Alkali / Manufacturer	ITD-968 with bills of lading attached	Each week concrete is placed representing the amount of cement used	See QA Manual Section 230.02
		VERIFICATION Laboratory Tests(1)	701.01 / ITD Project Personnel	AASHTO M 85 or AASHTO M 240 / ITD Central Lab	ITD-1044 (1A) (Sample Data) ITD-1825 (Lab Report)	Each 2,500 CY of concrete placed and for each mill analysis number. (2)	The frequency applies to multiple concrete items from the same concrete plant per project. Price adjustment for failing cement.
	Secondary Cementitious Material (SCM)	ACCEPTANCE Certification	714 / Manufacturer	AASHTO M 295 / Manufacturer	ITD-968 with bills of lading attached	Each week concrete is placed representing the amount of SCM used	See QA Manual Section 230.02
		VERIFICATION Laboratory Tests(1)	714 / ITD Project Personnel	/ ITD Central Lab	ITD-1044 (1A) (Sample Data) ITD-1826 (Lab Report)	Each 15,000 CY of concrete placed and for each sample ident number. (2)	The frequency applies to multiple concrete items from the same concrete plant per project.

(1) No samples for laboratory tests when total quantity of concrete for project is less than 40 cubic yards

(1A) Include acceptance certification documents with ITD-1044 and sample (ITD-968 and bills of lading).

(2) When the project quantity is 40 CY or more but less than the minimum sample frequency, the cement or SCM sample may represent multiple projects provided the material is from the same mill analysis or sample ident number, manufacturer, supplier and concrete plant. The sample test report and a file memo must be included in each project file and on each Materials Summary Report.

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
Dowel Bars	FOLLOW MTR TABLE STANDARD SPECIFICATION SECTION 503					
Tie Bars	FOLLOW MTR TABLE STANDARD SPECIFICATION SECTION 503					
Concrete Production (1A)	FIELD ACCEPTANCE Slump Air Content Temperature Unit Weight Cement Factor W/C Ratio	409.02	FOP for WAQTC TM 2 FOP for AASHTO T 119 FOP for AASHTO T 121 FOP for AASHTO T 309 FOP for AASHTO T 152	ITD-70	Each 300 CY	See QA Manual Section 215.00 Materials or Work Failing Specifications Computerized batch ticket accompanies each load to project.
		ITD Project Personnel	ITD Project Personnel			
	INDEPENDENT ASSURANCE Field Tests	IA Inspector	IA Inspector	ITD-857	Each 6,000 CY	
	ACCEPTANCE Compressive Strength	409.02	AASHTO T 22 FOP for AASHTO T 23 AASHTO T 358	ITD-1044 (Sample Data) ITD-845 (Lab Report)	3 sets for each day's production; 1 set randomly during each third of the day's placement.	Each set consists of 3 28-day and 2 7-day cylinders. Make the cylinders from loads that are tested for slump, air content, etc.
		ITD Project Personnel	ITD District or Central Lab			
	INDEPENDENT ASSURANCE Making Cylinders	IA Inspector	IA Inspector	ITD-857	1 observation per project	
(1A) When concrete is delivered to the forms by means of a concrete pump, the sample will be obtained at the point of discharge in accordance with WAQTC TM 2.						

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	BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
409-4	Concrete Production (1A) (Multiple small placements of less than 200 CY per day, i.e. slab replacements, intersections)	FOLLOW MTR TABLE STANDARD SPECIFICATION SECTION 502					
	Curing Compound	ACCEPTANCE Laboratory Test	709.01 / Manufacturer	ASTM C309 / ITD Central Lab	ITD-1044 (Sample Data) ITD-1823 (Lab Report)	Submit sample at least 30 days prior to use for each batch/lot	Pre-approved by batch or lot number.
	Finished Pavement	ACCEPTANCE (Depth Measurements)	409.03-J /	FOP for AASHTO T 359 / ITD Project Personnel	ITD-827	Randomly once every 0.1 mile	Thickness price adjustment.
		ACCEPTANCE Profiler (Smoothness)	409.03-K / Contractor	AASHTO R 57 / Contractor	Contractor furnishes IRI QC test results to Engineer by next calendar day following placement. Acceptance testing to be completed on final lift within 1 week of completion of paving.		
		VERIFICATION Profiler	409.03-K / ITD Project Personnel	/ ITD Project Personnel	ITD-854 ITD-769	Fully witnessed with report	
		ACCEPTANCE (Final Finish)	409.03-J /	Idaho IT 147 / ITD Project Personnel	ITD-797	Initially, then each lane mile	
	Joints	FOLLOW MTR TABLE STANDARD SPECIFICATION SECTION 625					
	STANDARD SPECIFICATION SECTION: **411 - URBAN CONCRETE PAVEMENT**						
	For all items and materials	FOLLOW MTR TABLE STANDARD SPECIFICATION SECTION 409					
	For multiple small placements of less than 200 CY per day	FOLLOW MTR TABLE STANDARD SPECIFICATIONS SECTION 502					
	(1A) When concrete is delivered to the forms by means of a concrete pump, the sample will be obtained at the point of discharge in accordance with WAQTC TM 2.						

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
STANDARD SPECIFICATION SECTION: **420 – CONCRETE PAVEMENT REHABILITATION**						
A. Slab Replacement	FOLLOW MTR TABLE STANDARD SPECIFICATION SECTION 409					
	ACCEPTANCE Concrete	409 / Contractor	Manufacturer			See QA Manual Section 230.01
	ACCEPTANCE Epoxy for Grouting Certification	420.02 A. / Manufacturer	AASHTO M 235 Type III Grade 1 or 2 or ASTM C881 Type III Grade 1 or 2 / Manufacturer		Total Quantity Paid	See QA Manual Section 230.01
B. Reparing Spalls	ACCEPTANCE Certification	420.02 B. / Manufacturer	ASTM C928 (modified) or AASHTO M 235 Type III Grade 1 or 2 or ASTM C881 Type III Grade 1 or 2 / Manufacturer	ITD-901 OR ITD-1043	Total Quantity Paid	See QA Manual Section 230.01
C. Subsealing	ACCEPTANCE Grout Certification	705 / Manufacturer	Manufacturer	ITD-901 OR ITD-1043	Total Quantity Paid	See QA Manual Section 230.01
	ACCEPTANCE Fly Ash Certification	714 / Manufacturer	ASTM C618 Class C or F / Manufacturer	ITD-857	Total Quantity Paid	See QA Manual Section 230.01

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	BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
420-2	E. Reparing Cracks	ACCEPTANCE Certification	704 / Manufacturer	Manufacturer	ITD-851	Total Quantity Paid	See QA Manual Section 230.01
	F. Reconstruction of Plant Mix Shoulders Asphalt	FOLLOW MTR TABLE STANDARD SPECIFICATION SECTION 405					
		ACCEPTANCE Superpave HMA	405 / ITD Project Personnel	ITD Project Personnel	ITD-833 ITD-777	See 405	See QA Manual Section 230.01
		INDEPENDENT ASSURANCE Sampling Air Voids VMA Moisture	IA Inspector	IA Inspector	ITD-857	1 observation each project.	Observation of the tests that are performed to calculate air voids, VMA, and Moisture
	G. Sealing Edge Joints	ACCEPTANCE Certification	704 / Manufacturer	Manufacturer	ITD-851	Total Quantity Paid	See QA Manual Section 230.01
	H. Resealing Joints	ACCEPTANCE Certification	704 / Manufacturer	Manufacturer	ITD-851	Total Quantity Paid	See QA Manual Section 230.01

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
STANDARD SPECIFICATION SECTION: **502 - CONCRETE**						
Concrete Ready-Mix Plant Inspection		ITD Project Personnel	ITD Project Personnel	ITD-893	1 per project	Inspection of plant is valid for 1 year.
Mix Design	REVIEW BY HQ Central Lab	502.01 502.03-A Contractor	Contractor	See Section 260.03.		
	ACCEPTANCE (Admixtures) Approved List	709.02 709.03 709.04 709.05 Manufacturer	ASTM C494 AASHTO M 154 Manufacturer	Qualified Products List		
	ACCEPTANCE (Water from other than a municipal drinking supply) Certification	720.01 Contractor	ASTM C1602 Independent Lab	Submit independent test results with mix design information	1 per project	Water from any municipal drinking supply does not require testing.
Fine Aggregate	ACCEPTANCE Gradation Sand Equivalent	409.02 703.02 ITD Project Personnel	FOP for AASHTO r 90 FOP for AASHTO R 76 FOP for AASHTO T 27 FOP for AASHTO T 11 FOP for AASHTO T 176 Alt. Method 2 Mechanical ITD Project Personnel	ITD-901 OR ITD-1043	Each 500 CY of concrete placed	Frequency applies to multiple concrete items from same concrete plant per project.
	INDEPENDENT ASSURANCE Gradation Sand Equivalent	IA Inspector	IA Inspector	ITD-857	Each 10,000 CY of concrete placed	
Coarse Aggregate	ACCEPTANCE Gradation	409.02 703.03 ITD Project Personnel	FOP for AASHTO R 90 FOP for AASHTO R 76 FOP for AASHTO T 27 ITD Project Personnel	ITD-901 OR ITD-1043	Each 500 CY of concrete placed	Frequency applies to multiple concrete items from same concrete plant per project. Wash method not required.
	INDEPENDENT ASSURANCE Gradation	IA Inspector	ITD District Lab	ITD-857	Each 10,000 CY of concrete placed	

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	BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
502-2	Cement	ACCEPTANCE Certification	701.01 / Manufacturer	AASHTO M 85 or AASHTO M 240 Total Alkali / Manufacturer	ITD-968 with bill of lading attached	Each week concrete is placed representing the amount of cement used	See QA Manual Section 230.02
		VERIFICATION Laboratory Tests(1)	701.01 / ITD Project Personnel	AASHTO M 85 or AASHTO M 240 / ITD Central Lab	ITD-1044(1B) (Sample Data) ITD-1825 (Lab Report)	Each 1,000 CY of concrete placed and for each mill analysis number (2)	The frequency applies to multiple concrete items from the same concrete plant per project. Price adjustment for failing cement.
	Secondary Cementitious Material (SCM)	ACCEPTANCE Certification	714 / Manufacturer	/ Manufacturer	ITD-968 with bill of lading attached	Each week concrete is placed representing the amount of SCM used	See QA Manual Section 230.02
		VERIFICATION Laboratory Tests(1)	714 / ITD Project Personnel	/ ITD Central Lab	ITD-1044(1B) (Sample Data) ITD-1826 (Lab Report)	Each 4,000 CY of concrete placed and for each sample ident number (2)	The frequency applies to multiple concrete items from the same concrete plant per project.
	Metal Reinforcement	FOLLOW MTR TABLE STANDARD SPECIFICATION SECTION 503					
	Pre-Stressing Strand	FOLLOW MTR TABLE STANDARD SPECIFICATION SECTION 506					
	Curing Compound(1A)	ACCEPTANCE Laboratory Test	709.01 / Manufacturer	ASTM C309 / ITD Central Lab	ITD-1044 (Sample Data) ITD-1823 (Lab Report)	Submit sample at least 30 days before use for each batch/lot	Pre-approved by batch or lot number.
		ACCEPTANCE Certification	/ Manufacturer	/ Manufacturer	ITD-851	Total Quantity Paid	See QA Manual Section 230.01
	Joint Fillers and Sealers	FOLLOW STANDARD SPECIFICATION SECTION 625 OF THE MTR TABLE					

(1) No samples for laboratory tests when total quantity of concrete for project is less than 40 cubic yards.
(1A) Acceptance by manufacturer's certification when total project quantity is less than 55 gallons.
(2) When the project quantity is 40 CY or more but less than the minimum sample frequency, the cement or SCM sample may represent multiple projects provided the material is from the same mill analysis or sample ident number, manufacturer, and concrete plant. The sample test report and a file memo must be included in each project file and on each Materials Summary Report. (1B) Include acceptance certification documents with ITD-1044 and sample. (ITD-968 and bill of lading)

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
Concrete Production (1B) Specified Strength of 3,500 psi or greater	FIELD ACCEPTANCE Slump Air Content Temperature Unit Weight Cement Factor W/C Ratio	502.02	FOP for WAQTC TM 2 FOP for AASHTO T 119 FOP for AASHTO T 121 FOP for AASHTO T 309 FOP for AASHTO T 152	ITD-70	First load, then randomly each 50 CY until quantity exceeds 100 CY. Thereafter, randomly every 100 CY but not less than one per day. (2)	When there is a failing test, obtain check tests immediately and continue checking each load until 2 consecutive tests are passing. Computerized batch ticket accompanies each load to project.
		ITD Project Personnel	ITD Project Personnel			
	INDEPENDENT ASSURANCE Field Tests	IA Inspector	IA Inspector	ITD-857	Each 2,000 CY	
	ACCEPTANCE Compressive Strength/Surface Resistivity	502.02	AASHTO T 22 FOP for AASHTO T 23 AASHTO T 358	ITD-1044 (Sample Data) ITD-845 (Lab Report)	1 set of three 28-day cylinders and 1 set of two 7-day cylinders each 100 CY but not less than 1 per day(2).	A single sample of concrete must be of sufficient size for the cylinders and air, slump, unit weight tests.
		ITD Project Personnel	ITD Project Personnel			
	INDEPENDENT ASSURANCE Making Cylinders	IA Inspector	IA Inspector	ITD-857	1 observation per project	
(1B) When concrete is delivered to the forms by means of a concrete pump, then samples will be obtained at the point of discharge in accordance with WAQTC TM-2. (2) For some applications involving multiple small placements not on the same day, the minimum one test per day is not required. Examples where this applies are non-structural items such as median barriers, small bases for signs or poles. Examples of items where this does **not** apply are sign or pole bases larger than 4 CY bridge footings, columns, pier caps or bridge parapet.						
Concrete Specified Strength of 3,000 psi or less	ACCEPTANCE Certification (2B)	502.01-B		ITD-875 with QC test results attached(3) QC tests on the first load, then randomly each 50 CY until quantity exceesds 100 CY. Thereafter randomly every 100 CY.	Total Quantity Paid	Unless lack of quality control is evident, plant inspection, aggregate testing, cement & fly ash certs & sampling, field tests and compressive strength tests by the State are not required. (2B) See QA Manual Section 230.06 Concrete supplier's certification. Note locations on ITD-875
		Concrete Supplier	Concrete Supplier			
(2B) Concrete for curb and sidewalk will be accepted by certification regardless of strength requirements. Concrete for landscaping using sack mixes will NOT require certification (ITD-875) or verification tests. Acceptance will be by inspection on the RE Letter (ITD-854). (3) When total is less than 50CY, QC tests can be from previous batches in the 30 days prior to the first placement.						

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	BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
502-4	Self Consolidating Concrete	FIELD ACCEPTANCE Flow, VSI, Temperature Unit Weight Air Content	502.02	FOP for AASHTO T 347 FOP for AASHTO T 351 FOP for AASHTO T 121 FOP for AASHTO T 152	ITD 70	First load, then randomly each 50 CY until quantity exceesds 100 CY. Thereafter randomly every 100 CY but not less than one per day. (2)	When there is a failing test, obtain check test immediately and continue checking each load until 2 consectutive tests are passing. Computerized batch tickets accompanies each load to project.
			ITD Project Personnel	ITD Project Personnel			
		INDEPENDENT ASSURANCE Field Tests	IA Inspector	IA Inspector	ITD-857	Each 2,000 CY	
		ACCEPTANCE Compressive Strength	502.02	ASHTO T 22 FOP for AASHTO T 23	ITD-1044 (Sample Data) ITD-845 (Lab Report)	1 set of three 28-day cylinders and 1 set of two 7-day cylinders each 100 CY but not less than 1 per day(2).	A single sample of concrete must be of sufficient size for the cylinders and air, slump, unit weight tests.
			ITD Project Personnel	ITD Project Personnel			
		INDEPENDENT ASSURANCE Field Tests	IA Inspector	IA Inspector	ITD-857	1 Observation per project	

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS	
Pre-cast Stringers, Prestressed Members	ACCEPTANCE Field Tests (Air, slump, unit weight, temperature)	502.02	FOP for AASHTO T 119 FOP for AASHTO T 152 FOP for AASHTO T 309 FOP for AASHTO T 121	ITD-70	1 per member	The ITD On-site Inspector will provide a memo of acceptance to the Engineer with all required test reports and certifications attached.	
		ITD On-site Inspector	ITD On-site Inspector				
	ACCEPTANCE Compressive Strength	502.02	AASHTO T 22 FOP for AASHTO T 23	ITD-845	1 set of 3 28-day cylinders per member		
		ITD On-site Inspector	ITD District or Central Lab				
Concrete Parapet	FOLLOW MTR FOR STRENGTH SPECIFIED						
Voided Slabs, Approach Slabs	ACCEPTANCE Field Tests (Air, slump, unit weight, temperature)	502.02	FOP for AASHTO T 119 FOP for AASHTO T 152 FOP for AASHTO T 309 FOP for AASHTO T 121	ITD-70	1 per member and when multiple members are poured in one continuous line- one test per line up to 50 cy and additional tests per 50cy.	The ITD On-site Inspector will provide a memo of acceptance to the Engineer with all required test reports and certifications attached.	502-5
		ITD On-site Inspector	ITD On-site Inspector				
	ACCEPTANCE Compressive Strength	502.02	AASHTO T 22 FOP for AASHTO T 23	ITD-845	1 set of 3 28-day cylinders per member		
		ITD On-site Inspector	ITD District or Central Lab				
Permanent Metal Concrete Forms	ACCEPTANCE Certification	708.31	ASTM A653 SS (SS=structural steel)	ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03	
		Manufacturer	Manufacturer				
Finished Concrete	ACCEPTANCE (Smoothness)	502.03-I-e	Idaho IR 87	ITD-854 ITD-769	As required		
			ITD Project Personnel				
	ACCEPTANCE (Final Finish)	502.03-I-d	Idaho IT 147	ITD-797	Once per project		
			ITD Project Personnel				

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
STANDARD SPECIFICATION SECTION: **503 - METAL REINFORCEMENT**						
Reinforcing Steel	ACCEPTANCE Certification	503.02 708.02 / Manufacturer	AASHTO M 31 / Manufacturer	ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03
	VERIFICATION Laboratory Tests (3)	503.02 / ITD Project Personnel	ITD Central Lab	ITD-1044(3A) (Sample Data) ITD-1810 (ITD 812 Lab Report)	Field sample every size and heat number from deliveries to project	FedEx or overnight samples. Reject failing heat numbers. See QA Manual Section 230.03.02
Epoxy Coated Metal Reinforcement	ACCEPTANCE Certification	503.02 708.02 / Manufacturer	ASTM A775 / Manufacturer	ITD-914 with mill test reports attached for steel/iron and with Holiday and coating thickness test reports attached	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03
	VERIFICATION Laboratory Tests (3)	503.02 / ITD Project Personnel	ITD Central Lab	ITD-1044(3A) (Sample Data) ITD-1810 (ITD-812 Lab Report)	Field sample every size and heat number from deliveries to project	FedEx or overnight samples. Reject failing heat numbers. See QA Manual Section 230.03.02
Dowel Bars GFRP manuf	ACCEPTANCE Certification	708.03 / Manufacturer	AASHTO M 254 / Manufacturer	ITD-914 with mill test reports attached for steel/iron BA N/A for GFRP	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03

(3) Samples not required when used with concrete of specified strength of 3,000 psi or less. Form ITD-914 is required.

(3A) Including acceptance certification documents with ITD-1044 and sample (ITD-914 and mill test reports).

	BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
503-2	Tie Bars	ACCEPTANCE Certification	708.04 / Manufacturer	AASHTO M 31 / Manufacturer	ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03
		VERIFICATION Laboratory Tests(3)(4)	503.02 / ITD Project Personnel	ITD Central Lab	ITD-1044(3A) (Sample Data) ITD-1810 (ITD-812 Lab Report)	1 sample of 2 bars per day of concrete paving	Slab replacement or rehab project where less than 1,000 bars, then 1 sample of 2 bars per project.
	(3) Samples not required when used with concrete of specified strength of (3,000 psi) or less. Form ITD-914 is required. (3A) Including acceptance certification documents with ITD-1044 and sample (ITD-914 and mill test reports). (4) Samples not required when less than 200 bars are used on a project.						

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
STANDARD SPECIFICATION SECTION: **504 - STRUCTURAL METALS**						
Steel Bridge	ACCEPTANCE Certification	504.01 504.03 708.06 Manufacturer	AASHTO M 270 Manufacturer	ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03
	ACCEPTANCE Fabrication Inspection(5)	504.01 504.02 504.03 ITD Project Personnel	ITD Central Lab	HQ will provide memo of inspection		District notifies HQ as soon as fabricator is known. HQ arranges fabrication inspection.
Structural Steel	ACCEPTANCE Certification	504.01 504.03 708.06 Manufacturer	AASHTO M 270 Manufacturer	ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03
	ACCEPTANCE Fabrication Inspection(5)	504.01 504.02 504.03 ITD Project Personnel	ITD Central Lab	HQ will provide memo of inspection		District notifies HQ as soon as fabricator is known. HQ arranges fabrication inspection.
Steel Forgings	ACCEPTANCE Certification	708.06 Manufacturer	AASHTO M 270 Manufacturer	ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03
	ACCEPTANCE Fabrication Inspection(5)	504.03 ITD Project Personnel	ITD Central Lab	HQ will provide memo of inspection		District notifies HQ as soon as fabricator is known. HQ arranges fabrication inspection.
Paint	FOLLOW MTR TABLE STANDARD SPECIFICATION SECTION 627					

(5) Fabrication Inspection not required if less than 16 Ton. District notification is still required. Field inspection of steel member is required. Acceptance by certification and ITD-854 Resident Engineer's Letter of Inspection (See QA Manual Section 250.00).

	BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
504-2	Bolts, Nuts, Hardened Washers, Direct Tension Indicators could be non-ferrous	ACCEPTANCE Certification	504.03-L 708.06-2 Manufacturer	ASTM A307 ASTM A325 ASTM A490 ASTM E18 Manufacturer	ITD-914 **no** mill test reports for steel/iron ITD-915	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03
		VERIFICATION Laboratory Tests	504.03-L 708.06-2 ITD Project Personnel	ASTM A307 ASTM A325 ASTM A490 ASTM E18 ITD Central Lab	ITD-1044 (Sample Data) ITD-1811 (Lab Report)	3 random samples of each assembly from each lot and size	Sample from material delivered to the project.
	Structural Steel Handrail	ACCEPTANCE Certification	504.02 708.06-1 Manufacturer	AASHTO M 270 Manufacturer	ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03
	Two Tube Curb-Mount Railing could be non-ferrous	ACCEPTANCE Certification	504.02 708.06-1 Manufacturer	AASHTO M 270 Manufacturer	ITD-914 with mill test reports attached for steel/iron ITD-915	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03
	Pedestrian Bicycle Railing could be non-ferrous	ACCEPTANCE Certification	504.02 708.06-1 Manufacturer	AASHTO M 270 Manufacturer	ITD-914 with mill test reports attached for steel/iron ITD-915	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03
	Combination Pedestrian, Bicycle, and Traffic Railing could be non-ferrous	ACCEPTANCE Certification	504.02 708.06-1 Manufacturer	AASHTO M 270 Manufacturer	ITD-914 with mill test reports attached for steel/iron ITD-915	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS	
STANDARD SPECIFICATION SECTION: **505 - PILING**							505
H-Beam Piles	ACCEPTANCE Certification	505.02 708.08 / Manufacturer	ASTM A36 / Manufacturer	ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03	
Steel Shell Piles	ACCEPTANCE Certification	505.02 708.30 / Manufacturer	/ Manufacturer	ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03	
Timber Piles	ACCEPTANCE Certification	505.02 710.05 / Manufacturer	ASTM D25 / Manufacturer	ITD-851 ITD-915	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03	
Pile Point	ACCEPTANCE Approved List and Certification	505.03-C / Manufacturer	/ Manufacturer	Qualified Product List ITD-914 with mill test reports attached for steel/iron		See QA Manual Section 230.01 and Section 230.03	
Concrete with specified strength of 3,000 psi or less	ACCEPTANCE Certification	502.02-B / Concrete Supplier	/ Concrete Supplier	ITD-875 with QC test results attached	Total Quantity Paid	See QA Manual Section 230.06 Concrete Suppliers Certification Note locations on ITD-875	
STANDARD SPECIFICATION SECTION: **506 - PRE-STRESSING CONCRETE**							506-1
Reinforcement	FOLLOW MTR TABLE STANDARD SPECIFICATION SECTION 503						
Welded Wire	ACCEPTANCE Certification	/ Manufacturer	/ Manufacturer	ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03	
Pre-Stressing Strand	ACCEPTANCE Certification	708.05 / Manufacturer	ASTM A416 ASTM A722 / Manufacturer	ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03	
	VERIFICATION Laboratory Tests	506.03 / ITD Project Personnel	/ ITD Central Lab	ITD-1044 (Sample Data) ITD-1813 (ITD-838 Lab Report)	1 per reel	See QA Manual Section 230.05.01	
Grout Type A Type B Class I Type B Class II Type C (used in post tensioning)	ACCEPTANCE Compressive Strength	506.03-I 705 / ITD Project Personnel	ID FOP for AASHTO R 64 AASHTO T 106 / ITD District or Central Lab	ITD-1044 (Sample Data) ITD-845 (Lab Report)	Grout cubes once per day for each type grout used	The average of 3 28-day cubes for Type A or Type B. The average of 3 24-hour cubes for Type C	
	INDEPENDENT ASSURANCE Observation	IA Inspector	IA Inspector	ITD-857	1 observation per project		

	BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
506-2	Grout Type A Type B Class I Type B Class II Type C (used in other than post tensioning)	ACCEPTANCE Compressive Strength	506.03-I 705 ITD Project Personnel	AASHTO R 64 AASHTO T 106 ITD District or Central Lab	ITD-1044 ITD-845 (Lab Report)	1 per project	The average of three 28-day cubes for Type A or Type B. The average of three 24-hour cubes for Type C
	Grout Type D	ACCEPTANCE Certification	701 703 705 Manufacturer	AASHTO M85 FOP for AASHTO T 11 FOP for AASHTO T 27 FOP for AASHTO T 176 Alt. Method 2, Mechanical Manufacturer	ITD-851	Total Quantity Paid	See QA Manual Section 230.01
507	STANDARD SPECIFICATION SECTION: **507 - BEARING PADS AND PLATES**						
	Self-Lubricating Bronze Bearing Plates	ACCEPTANCE Certification	507.02 708.29 Manufacturer	Manufacturer	ITD-851	Total Quantity Paid	See QA Manual Section 230.01
	Neoprene Bearing Pads	ACCEPTANCE Certification	507.02 720.02 Manufacturer	AASHTO M 251 Manufacturer	ITD-851 ITD-915	Total Quantity Paid	See QA Manual Section 230.01
	TFE/PTFE Bridge Bearing Pads	ACCEPTANCE Certification	507.02 720.03 Manufacturer	Manufacturer	ITD-851 ITD-915	Total Quantity Paid	See QA Manual Section 230.01
508	STANDARD SPECIFICATION SECTION: **508 - CORRUGATED PLATE PIPE**						
	Corrugated Plate Pipe Culvert could be non-ferrous	ACCEPTANCE Certification	508.02 708.20 Manufacturer	AASHTO M 167 or AASHTO M 219 Manufacturer	ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid ITD-915	See QA Manual Section 230.01 Section 230.03 and Section 230.07
	Corrugated Plate Pipe Arch could be non-ferrous	ACCEPTANCE Certification	508.02 708.20 Manufacturer	AASHTO M 167 or AASHTO M 219 Manufacturer	ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid ITD-915	See QA Manual Section 230.01 Section 230.03 and Section 230.07
	Corrugated Plate Arch could be non-ferrous	ACCEPTANCE Certification	508.02 708.20 Manufacturer	AASHTO M 167 or AASHTO M 219 Manufacturer	ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid ITD-915	See QA Manual Section 230.01 Section 230.03 and Section 230.07

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS	
STANDARD SPECIFICATION SECTION: **509 - NON-STRUCTURAL CONCRETE**							
Mix Design	REVIEW BY District	509.01 / Contractor	/ Contractor	See Section 260.03.			509
Concrete(1)	ACCEPTANCE Certification	509.02 / Contractor	/ Contractor	ITD-875 with QC test results attached (1) Test the first load, then again randomly prior to reaching 50 CY. Test again randomly prior to reaching 100 CY and again randomly within every 100 CY thereafter.	Total Quantity Paid	(2) Unless lack of quality control is evident, plant inspection, aggregate testing, cement & fly ash certs & sampling, field tests and compressive strength tests by the State are not required. See QA Manual Section 230.06 Concrete supplier's certification Note locations on ITD-875	

(1) When total is less than 50CY, QC tests can be from previous batches in the 30 days prior to the first placement.

(2) Concrete using sack mixes will NOT require certification (ITD-875) or verification tests. Acceptance will be by inspection on the RE Letter (ITD-854).

	BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
	STANDARD SPECIFICATION SECTION: **510 - CONCRETE OVERLAY**						
510	Mix Design Aggregate Portland Cement Curing Compound	FOLLOW MTR TABLE STANDARD SPECIFICATION SECTION 502					
	Latex Modified Concrete	ACCEPTANCE (Latex Modifier) Certification	510.02 Manufacturer	FOP for Idaho IR 121 Manufacturer	ITD-851 with test results attached	Total Quantity Paid	See QA Manual Section 230.01
		ACCEPTANCE (Concrete) Field Tests	510.02 ITD Project Personnel	FOP for AASHTO T 119 FOP for AASHTO T 152 FOP for AASHTO T 309 FOP for AASHTO T 121 ITD Project Personnel	ITD-70	First load, then randomly each 50 CY until quantity reaches 100 CY, thereafter randomly each 100 CY.	
		INDEPENDENT ASSURANCE Field Tests	IA Inspector	IA Inspector	ITD-857	Each 2,000 CY	
		ACCEPTANCE (Concrete) Compressive Strength	510.03 ITD Project Personnel	AASHTO T 22 FOP for AASHTO T 23 ITD District or Central Lab	ITD-1044 (Sample Data) ITD-845 (Lab Report)	1 set of 3 28-day cylinders per day	
		INDEPENDENT ASSURANCE Making Cylinders	IA Inspector	IA Inspector	ITD-857	1 observation per project	
	Silica Fume Concrete	ACCEPTANCE (Silica Fume) Certification	510.02 Manufacturer	AASHTO M 307 Manufacturer	ITD-851 with test results attached	Total Quantity Paid	See QA Manual Section 230.01
		VERIFICATION Laboratory Test	510.02 ITD Project Personnel	AASHTO M 307 ITD Central Lab	ITD-1044 (Sample Data) ITD-1827 (Lab Report)	1 per project	1 Cylinder Can
		ACCEPTANCE (Concrete) Field Tests	510.02 ITD Project Personnel	FOP for AASHTO T 119 FOP for AASHTO T 152 FOP for AASHTO T 309 FOP for AASHTO T 121 ITD Project Personnel	ITD-70	First load, then randomly each 50 CY until quantity reaches 100 CY, thereafter randomly each 100 CY.	
		INDEPENDENT ASSURANCE Field Tests	IA Inspector	IA Inspector	ITD-857	Each 2,000 CY	

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS	
Silica Fume Concrete (Continued)	ACCEPTANCE (Concrete) Compressive Strength	510.03 / ITD Project Personnel	AASHTO T 22 FOP for AASHTO T 23 / ITD District or Central Lab	ITD-1044 (Sample Data) ITD-845 (Lab Report)	1 set of 3 28-day cylinders per day		510-2
	INDEPENDENT ASSURANCE Making Cylinders	IA Inspector	IA Inspector	ITD-857	1 observation per project		
Finished Overlay	ACCEPTANCE (Smoothness and Integrity)	409.03-K 510.03-F /	Idaho IR 87 / ITD Project Personnel	ITD-854 ITD-769	As required	Identify any delaminations for removal.	
	ACCEPTANCE (Final Finish)	510.03-E /	Idaho IT 147 / ITD Project Personnel	ITD-797	Once per structure		
STANDARD SPECIFICATION SECTION: **511 - CONCRETE WATERPROOFING SYSTEMS**							511
Liquid Asphalt Sealant Type A System	ACCEPTANCE Certification	511.02 / Manufacturer	ASTM D3406 / Manufacturer	ITD-851 ITD-915	Total Quantity Paid	See QA Manual Section 230.01	
Asphalt Roll Roofing Type A System	ACCEPTANCE Certification	511.02 / Manufacturer	ASTM D224 TYPE II / Manufacturer	ITD-851 ITD-915	Total Quantity Paid	See QA Manual Section 230.01	
Primer Type A System	ACCEPTANCE Certification	702.03 / Manufacturer	/ Manufacturer	ITD-851 ITD-915	Total Quantity Paid	See QA Manual Section 230.01	
Asphalt Cement Type B System	ACCEPTANCE Certification	702.01 / Manufacturer	/ Manufacturer	ITD-851 ITD-915	Total Quantity Paid	See QA Manual Section 230.01	
Fabric Type B System	ACCEPTANCE Certification	718.02 / Manufacturer	/ Manufacturer	ITD-851 ITD-915	Total Quantity Paid	See QA Manual Section 230.01	
Sand Membrane Protection Blanket	ACCEPTANCE Gradation Sand Equivalent	703.02 / ITD Project Personnel	FOP for AASHTO R 90 FOP for AASHTO R 76 FOP for AASHTO T 27 FOP for AASHTO T 11 FOP for AASHTO T 176 Alt. Method 2, Mechanical / ITD Project Personnel	ITD-901 ITD-915	1 per project (At first Placement)	If test fails immediately, perform check test. If check test fails, reject material.	
Membrane Sheet Type D System	ACCEPTANCE Certification	511.02 511.03 / Manufacturer	/ Manufacturer	ITD-851 BA N/A	Total Quantity Paid	See QA Manual Section 230.01	
Water Repellant Type C System	ACCEPTANCE Certification	511.02 511.03 / Manufacturer	/ Manufacturer	ITD-851 BA N/A	Total Quantity Paid	See QA Manual Section 230.01	
Type E System				ITD-915			

	BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
512	STANDARD SPECIFICATION SECTION: **512 – GABION STRUCTURE**						
	Wire Mesh	ACCEPTANCE Certification	715.01 Manufacturer	ASTM A370 ASTM A641 ASTM A90 ASTM A185 Manufacturer	ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03
	Joints	ACCEPTANCE Certification	715.05 Manufacturer	ASTM A641 ASTM A370 ASTM A641 ASTM A90 ASTM A764 Manufacturer	ITD-851 ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03
	Gabion Fill Material	ACCEPTANCE Inspection	715.06 No sample required	No testing required	ITD-854		
	Compacting Backfill	ACCEPTANCE In-Place Density	512.03-C ITD Project Personnel	FOP for AASHTO T 99 Method C or A FOP for AASHTO T 310 Method B ITD Project Personnel	ITD-850	Each 2,500 CY or 4,000 tons	Document compaction effort for each lift. After remedial efforts, obtain check tests within 10 feet and at same depth as original test. See QA Manual Section 215.00
		INDEPENDENT ASSURANCE In-Place Density	IA Inspector	IA Inspector	ITD-857	1 observation per project exceeding 2,500CY	For plan quantities exceeding 2,500CY.
	Geotextile	FOLLOW MTR TABLE STANDARD SPECIFICATION SECTION 640					
520	**STANDARD SPECIFICATION SECTION: 520 – PREDRILLING FOR PILING**						
	Coarse Aggregate for Concrete Size No. 1	ACCEPTANCE Visual	703.02 ITD Project Personnel	ITD Project Personnel	ITD-854	1 per project	
		ACCEPTANCE Certification	703.02 Contractor	Contractor	ITD-851 ITD-901	Each 700 CY or 1000 Tons	

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS	
STANDARD SPECIFICATION SECTION: **522 – CONTROLLED DENSITY FILL (CDF)**							**522**
Controlled Density Fill (CDF)	ACCEPTANCE Visual	522.02 / ITD Project Personnel	ITD Project Personnel	ITD 854	1 per project	See QA Manual Section 230.01	
	ACCEPTANCE Certification	522.02 / Contractor	Contractor	ITD 851	1 per project		
STANDARD SPECIFICATION SECTION: **551 – POLYESTER POLYMER CONCRETE (PPC) OVERLAY**							**551**
Primer	ACCEPTANCE Certification	551.02 / Manufacturer	Manufacturer	ITD-851	Total Quantity Paid	See QA Manual Section 230.01	
Polyester Resin Binder	ACCEPTANCE Certification	551.02 / Manufacturer	Manufacturer	ITD-851	Total Quantity Paid	See QA Manual Section 230.01	
Aggregate	ACCEPTANCE Certification	551.02 / Manufacturer	Manufacturer	ITD-851	Total Quantity Paid	See QA Manual Section 230.01	
PPC Composite	ACCEPTANCE Certification	551.02 / Manufacturer	Manufacturer	ITD-851	Total Quantity Paid	See QA Manual Section 230.01	
Sand for Abrasive Finish	ACCEPTANCE Certification	551.02 / Manufacturer	Manufacturer	ITD-851	Total Quantity Paid	See QA Manual Section 230.01	

	BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
553	STANDARD SPECIFICATION SECTION: **553 – EPOXY OVERLAY**						
	Epoxy	ACCEPTANCE Certification	553.02 / Manufacturer	/ Manufacturer	ITD-851	Total Quantity Paid	See QA Manual Section 230.01
	Aggregates	ACCEPTANCE Certification	553.02 / Manufacturer	FOP for AASHTO R 90 FOP for AASHTO R 76 FOP for AASHTO T 27 FOP for AASHTO T 11 AASHTO T 278 or ASTM A641 AASHTO T 96 AASHTO T 255 ASTM C25 / Manufacturer	ITD-851	Total Quantity Paid	See QA Manual Section 230.01
565	STANDARD SPECIFICATION SECTION: **565 – ASPHALTIC PLUG EXPANSION JOINT SYSTEM**						
	Binder Material	ACCEPTANCE Certification	565.02 / Manufacturer	/ Manufacturer	ITD-851	Total Quantity Paid	See QA Manual Section 230.01
	Aggregates	ACCEPTANCE Certification	565.02 / Manufacturer	/ Manufacturer	ITD-851	Total Quantity Paid	See QA Manual Section 230.01
	Backer Rod	ACCEPTANCE Certification	565.02 / Manufacturer	/ Manufacturer	ITD-851 ITD-915	Total Quantity Paid	See QA Manual Section 230.01
	Bridge Plate	ACCEPTANCE Certification	565.02 / Manufacturer	/ Manufacturer	ITD-851 ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.01
	Location Spikes	ACCEPTANCE Certification	565.02 / Manufacturer	/ Manufacturer	ITD-851 ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid ITD-915	See QA Manual Section 230.01
	Mixing and Compaction	ACCEPTANCE Visual	565.03 / ITD Project Personnel	/ ITD Project Personnel	ITD 854	1 per project	See QA Manual Section 230.01

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS	
STANDARD SPECIFICATION SECTION: **566 – COMPRESSION SEAL EXPANSION JOINT**							**566**
Neoprene Seals	ACCEPTANCE Certification	704.04 / Manufacturer	Manufacturer	ITD-851 ITD-915	Total Quantity Paid	See QA Manual Section 230.01	
STANDARD SPECIFICATION SECTION: **567 – STRIP SEAL EXPANSION JOINT**							**567**
Metal	ACCEPTANCE Certification	567.02-A / Manufacturer	Manufacturer	ITD-851 ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.01	
Neoprene Seals	ACCEPTANCE Certification	567.02-B 704.04 / Manufacturer	Manufacturer	ITD-851 ITD-915	Total Quantity Paid	See QA Manual Section 230.01	
Adhesive	ACCEPTANCE Certification	567.02-C / Manufacturer	Manufacturer	ITD-851	ITD-851	Total Quantity Paid	
STANDARD SPECIFICATION SECTION: **568 –ELASTOMERIC CONCRETE HEADER**							**568**
Elsatomeric Concrete	ACCEPTANCE Certification	568.02 / Manufacturer	Manufacturer	ITD-851	Total Quantity Paid	See QA Manual Section 230.01	
Bonding Agent	ACCEPTANCE Certification	568.02 / Manufacturer	Manufacturer	ITD-851	Total Quantity Paid	See QA Manual Section 230.01	
STANDARD SPECIFICATION SECTION: **576 –GLASS FIBER REINFORCED POLYMER (GFPR) REINFORCEMENT**							**576**
GFPR Reinforcement	ACCEPTANCE Certification	576.02 / Manufacturer	Manufacturer	ITD-851	Total Quantity Paid	See QA Manual Section 230.01	
STANDARD SPECIFICATION SECTION: **577 –PILE SLEEVES**							**577**
Coarse Aggregate for Concrete Size No. 1	ACCEPTANCE Visual	703.02 409.02 703.03 / ITD Project Personnel	ITD Project Personnel	ITD-854	1 per Project		
	ACCEPTANCE Certification	703.02 409.02 703.03 / Manufacturer	Manufacturer	ITD-851 ITD-901	Each 700 CY or 1000 Tons		
Corrugated Metal Pipe and Galvanized Metal Spacers	ACCEPTANCE Certification	706.06 / Manufacturer	AASHTO M 36 or AASHTO M 196 / Manufacturer	ITD-851 ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.01 Section 230.03, and Section 230.07	

	BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
578	STANDARD SPECIFICATION SECTION: **578 – PRECAST CONCRETE CULVERT**						
	Precast Concrete Culvert	ACCEPTANCE Certification	706.01 706.04 / Manufacturer	AASHTO M 170 / Manufacturer	ITD-851 ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.01 Section 230.03 and Section 230.04
	Gaskets for Concrete Pipe	ACCEPTANCE Certification	706.11 / Manufacturer	ASTM C990 / Manufacturer	ITD-851 ITD-915	Total Quantity Paid	See QA Manual Section 230.01
	Compacting Backfill (Pipe Backfill)	ACCEPTANCE In-Place Density	210.03 / ITD Project Personnel	FOP for AASHTO T 180 Idaho IT-74 AASHTO T 310 Method B / ITD Project Personnel	ITD 850	Each 200 LF of pipe installed, but no less than one (1) test per pipe installed.	A pipe is considered the total continuous length as shown on the project pipe summary sheet. If this contract has a pay item for pipe backfill in the 210 section post test results in the 210 item.
		INDEPENDENT ASSURANCE In-Place Density	IA Inspector	IA Inspector	ITD-857	1 observation of density per project	

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS	
STANDARD SPECIFICATION SECTION: **579 – BOND REINFORCING STEEL**							579
Adhesive	ACCEPTANCE Certification	720.04 / Manufacturer	AASHTO M 31 / Manufacturer	ITD-851	Total Quantity Paid	See QA Manual Section 230.01	
STANDARD SPECIFICATION SECTION: **581 – CONCRETE CRACK REPAIR**							581
Epoxy Resin for Surface Sealing	ACCEPTANCE Certification	581.02 / Manufacturer	ASTM C881 Type 1, Grade 3, Class B and C / Manufacturer	ITD-851	Total Quantity Paid	See QA Manual Section 230.01	
Epoxy Resin for Injection	ACCEPTANCE Certification	581.02 / Manufacturer	ASTM C881 Type 1 and IV, Grade 1, Class B and C / Manufacturer	ITD-851	Total Quantity Paid	See QA Manual Section 230.01	
STANDARD SPECIFICATION SECTION: **582 – PATCH AND REPAIR OF CONCRETE**							582
Concrete Surface Patching Material	ACCEPTANCE Certification	582.02 / Manufacturer	ASTM C109 ASTM C882 ASTM C531 ASTM C157 / Manufacturer	ITD-851	Total Quantity Paid	See QA Manual Section 230.01	
Concrete Deck Patching Material	ACCEPTANCE Certification	582.02 / Manufacturer	ASTM C928, Type R3 / Manufacturer	ITD-851	Total Quantity Paid	See QA Manual Section 230.01	
STANDARD SPECIFICATION SECTION: **584 –TEMPORARY SHORING**							584
Temporary shoring	ACCEPTANCE Inspection	584.02 / ITD Project Personnel	/ No Testing Required	ITD-854	Total Quantity Paid	See QA Manual Section 230.01	
STANDARD SPECIFICATION SECTION: **586 –UTILITY CONDUIT**							586-1
Utility Conduit could be non-ferrous or PVC (polymer)	ACCEPTANCE Certification	586.02 / Manufacturer	/ Manufacturer	ITD-851 ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid ITD-915	See QA Manual Section 230.08	
Deck Inserts could be non-ferrous or PVC (polymer)	ACCEPTANCE Certification	586.02 / Manufacturer	/ Manufacturer	ITD-851 ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid ITD-915	See QA Manual Section 230.08	
Standard Weigth Steel Pipe	ACCEPTANCE Certification	586.02 / Manufacturer	ASTM A53, Grade B or A501 / Manufacturer	ITD-851 ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.03	

	BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
586-2	Compacting Backfill (Pipe Backfill)	ACCEPTANCE In-Place Density	210.03	FOP for AASHTO T 180 Idaho IT-74 AASHTO T 310 Method B	ITD-850	Each 200 LF of pipe installed, but no less than one (1) test per pipe installed.	A pipe is considered the total continuous length as shown on the project pipe summary sheet. If this contract has a pay item for pipe backfill in the 210 section post test results in the 210 item.
			ITD Project Personnel	ITD Project Personnel			
		INDEPENDENT ASSURANCE In-Place Density	IA Inspector	IA Inspector	ITD-857	1 observation of density per project	
587	STANDARD SPECIFICATION SECTION: **587 – PAINTING STRUCTURAL STEEL**						
	Coating System	ACCEPTANCE Pre-Tests	707.02		ITD-1832	All lots (1-quart can sample size)	Record lot numbers and lab numbers of approved pre-tested paint from ITD Central Lab letter and/ or ITD-1832.
			Coordinate with ITD Central Lab	ITD Central Lab			
		ACCEPTANCE Certification	707.03		ITD-851	Total Quantity Paid	See QA Manual Section 230.01
			Manufacturer	Manufacturer			

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS	
STANDARD SPECIFICATION SECTION: **602 - CULVERTS, 603 - PIPE SIPHONS, 604 - IRRIGATION PIPE LINES, 605 - SEWERS, 606 - PIPE UNDERDRAINS, 607 - EMBANKMENT PROTECTORS, 608 - APRONS FOR PIPE**							**602, 603, 604, 605, 606, 607, 608-1**
Corrugated Metal Pipe and Pipe Arches could be non-ferrous	ACCEPTANCE Certification	706.06 Manufacturer	AASHTO M 36 or AASHTO M 196 Manufacturer	ITD-914 with mill test reports attached for steel/iron & ITD-851 for aluminum	Total Quantity Paid ITD-915	See QA Manual Section 230.01 Section 230.03, and Section 230.07	
	ACCEPTANCE Certification	706.06 Manufacturer	AASHTO M 36 Galvanized Coating Manufacturer	ITD-914 with QC results attached	Total Quantity Paid .	See QA Manual Section 230.07	
Structural Plate Pipe, Pipe Arches and Arches could be non-ferrous	ACCEPTANCE Certification	708.20 Manufacturer	AASHTO M 167 or AASHTO M 219 Manufacturer	ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid ITD-915	See QA Manual Section 230.01 and Section 230.03	
Concrete Pipe for Sewer, Irrigation or Drainage (Non-Reinforced)	ACCEPTANCE Certification	706.01 706.02 706.03 Manufacturer	AASHTO M 86 ASTM C118 Manufacturer	ITD-851 or ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Sections 230.01, Section 230.03 and Section 230.04 ITD-914 is not required if metal reinforcement is not used	
Reinforced Concrete Culvert, Storm Drain and Sewer Pipe	ACCEPTANCE Certification	706.01 706.04 Manufacturer	AASHTO M 170 Manufacturer	ITD-851or ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.01, Section 230.03 and Section 230.04	
Pipe Underdrains (metallic coated corrugated steel, corrugated aluminum pipe, corrugated PE drainage tubing PVC pipe) could be non-ferrous or polymer (PVC)	ACCEPTANCE Certification	706.07 706.08 706.10 706.14 Manufacturer	AASHTO M 36 AASHTO M 196 AASHTO M 252 AASHTO M 278 Manufacturer	ITD-851 or ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid ITD-915	See QA Manual Section 230.01 and Section 230.03	

	BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
602, 603, 604, 605, 606, 607, 608-2	ABS or PVC or PE Pipe	ACCEPTANCE Certification	706.13 706.14 706.15 706.16 706.17 Manufacturer	ASTM D2680 AASHTO M 278 ASTM F794 AASHTO M 294 ASTM F894 Manufacturer	ITD-851 ITD-915	Total Quantity Paid	See QA Manual Section 230.06
	Metal Aprons could be non-ferrous	ACCEPTANCE Certification	608 708.21 Manufacturer	AASHTO M 36 or AASHTO M 196 Manufacturer	ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid ITD-915	See QA Manual Section 230.01 and Section 230.03
	Concrete Aprons	ACCEPTANCE Certification	608 509.01-B Manufacturer	Manufacturer	ITD-875 with QC test reports attached ITD 914 with mill test results attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.01 Section 230.03, and Section 230.06 Manufacturer certification Note locations on ITD-875
	Gaskets for Concrete Pipe	ACCEPTANCE Certification	706.11 Manufacturer	ASTM C990 Manufacturer	ITD-851 ITD-915	Total Quantity Paid	See QA Manual Section 230.01
	Rubber Gaskets for CMP	ACCEPTANCE Certification	706.12 Manufacturer	ASTM D1056 Manufacturer	ITD-851 ITD-915	Total Quantity Paid	See QA Manual Section 230.01
	Manhole Covers and Rings, Grates	ACCEPTANCE Certification	708.22 Manufacturer	AASHTO M 105 Manufacturer	ITD-851 ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03
	Catch Basins, Inlets & Manholes (Pre-cast)	ACCEPTANCE Certification	609 Standard Drawings 605 Manufacturer	Manufacturer	ITD-875 ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.01, Section 230.03 and Section 230.06
	Catch Basins, Inlets & Manholes (Cast in-Place)	ACCEPTANCE Certification	609 Standard Drawings 605 Manufacturer	Manufacturer	ITD-875 with QC test reports attached ITD-914 With mill test results attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.01, Section 230.03 and Section 230.06 Concrete Supplier's certification Note locations on ITD-875

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS	
Corrugated Metal Embankment Protectors could be non-ferrous	ACCEPTANCE Certification	607.02 706.06 / Manufacturer	AASHTO M 36 AASHTO M 196 / Manufacturer	ITD-914 with test reports attached for steel/iron	Total Quantity Paid ITD-915	See QA Manual Section 230.01 and Section 230.03	602, 603, 604, 605, 606, 607, 608-3
Compacting Backfill	FOLLOW MTR TABLE STANDARD SPECIFICATION SECTION 210						
Drain Rock	ACCEPTANCE Certification	606.02 / Contractor	FOP for AASHTO R 90 FOP for AASHTO R 76 FOP for AASHTO T 27 / Contractor	ITD-851 with QC gradation tests attached	Total Quantity Paid	See QA Manual Section 230.01	
Geotextile	FOLLOW MTR TABLE STANDARD SPECIFICATION SECTION 640						
STANDARD SPECIFICATION SECTION: **609 - MINOR STRUCTURES**							609
Concrete Specified strength of 3,000 psi or less	ACCEPTANCE Certification	509 / Concrete Supplier	Concrete Supplier	ITD-851 (Precast) ITD-875 (Cast in Place) with QC test results attached	Total Quantity Paid	See QA Manual Section 230.06 Concrete Supplier's certification Note locations on ITD-875.	
Concrete Specified strength of 3,500 psi or greater	FOLLOW MTR TABLE STANDARD SPECIFICATION SECTION 502						
Metal Reinforcement [with concrete of specified strength of 3,000 psi or less]	ACCEPTANCE Certification	708.02 / Manufacturer	Manufacturer	ITD-914 with mill test reports attached	Total Quantity Paid	See QA Manual Section 230.03 No samples required.	
Metal Reinforcement [with concrete of specified strength of 3,500 psi or greater]	FOLLOW MTR TABLE STANDARD SPECIFICATION SECTION 503						
Timber	ACCEPTANCE Certification	710 / Manufacturer	Manufacturer	ITD-851 BA N/A	Total Quantity Paid		
Compacting Backfill	FOLLOW MTR TABLE STANDARD SPECIFICATION SECTION 210						

	BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
610	STANDARD SPECIFICATION SECTION: **610 - FENCE**						
	Barbed Wire	ACCEPTANCE Certification	708.09		ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03
				No Testing Required			
	Woven Wire	ACCEPTANCE Certification	708.10		ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03
				No Testing Required			
	Chain Link	ACCEPTANCE Certification	708.13		ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03
				No Testing Required			
	Metal Posts for all fence types	ACCEPTANCE Certification	708.12		ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03
			ITD Project Personnel	No Testing Required			
	Wood Posts	ACCEPTANCE Inspection	710.08	Visual Inspection	ITD-854	Total Quantity Paid	RE Letter-See QA Manual Section 250.00
				No Testing Required	BA N/A		
	Gates could be non-ferrous or wood (treated, manuf)	ACCEPTANCE Inspection or Certification for steel/iron	610.03	Visual Inspection	ITD-854 or ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid ITD-915	See QA Manual Section 230.01 & Section 230.03 RE Letter-See QA Manual Section 250.00
				No Testing Required			
	Braces could be non-ferrous or wood (treated, manuf)	ACCEPTANCE Inspection or Certification for	610.03	Visual Inspection	ITD-854 or ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid ITD-915	See QA Manual Section 230.01 & Section 230.03 RE Letter-See QA Manual Section 250.00
				No Testing Required			
	Hardware for Barbed or Woven Wire Fence could be non-ferrous	ACCEPTANCE Inspection or Certification for steel/iron	708.11	Visual Inspection	ITD-854 or ITD-914 with **no** mill test reports attached for steel/iron	Total Quantity Paid ITD-915	See QA Manual Section 230.01 & Section 230.03 RE Letter-See QA Manual Section 250.00
	Concrete	ACCEPTANCE Certification	509		ITD-875	Total Quantity Paid	See QA Manual Section 230.06 Concrete Supplier's certification
				No Testing Required			

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
STANDARD SPECIFICATION SECTION: **611 - CATTLE GUARDS**						
Concrete	ACCEPTANCE Certification	509 / Concrete Supplier	/ Concrete Supplier	ITD-875 with QC test results attached	Total Quantity Paid	See QA Manual Section 230.06 Concrete Supplier's certification
Metal Reinforcement	ACCEPTANCE Certification	708.02 / Manufacturer	/ Manufacturer	ITD-914 with mill test reports attached	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03
Structural Metals	ACCEPTANCE Certification	504.02 / Manufacturer	(1) / Manufacturer	ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03
Culverts	FOLLOW MTR TABLE STANDARD SPECIFICATION SECTION 602					
Fence	FOLLOW MTR TABLE STANDARD SPECIFICATION SECTION 610					

(1) Fabrication Inspection by ITD Central Lab required when quantities over 16 Tons.

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BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
STANDARD SPECIFICATION SECTION: **612 – GUARDRAIL**						
Wood Post and Blocks	ACCEPTANCE Certification	710.03 710.09 / Manufacturer	/ Manufacturer	ITD-851 BA N/A	Total Quantity Paid	See QA Manual Section 230.01
Steel Post	ACCEPTANCE Certification	708.07 / Manufacturer	/ Manufacturer	ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03
Blocks (Other than wood) could be polymer	ACCEPTANCE Certification	QPL / Manufacturer	/ Manufacturer	ITD-851 ITD-915	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03
Steel Rail	ACCEPTANCE Certification	708.14 / Manufacturer	/ Manufacturer	ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03
Bolts, Nuts, Washers, and Fittings	ACCEPTANCE Certification	708.14 / Manufacturer	/ Manufacturer	ITD-914 **No** mill test reports for steel/iron	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03
Aluminum Rail and Fittings	ACCEPTANCE Certification	708.25 / Manufacturer	/ Manufacturer	ITD-851 ITD-915	Total Quantity Paid	See QA Manual Section 230.01
Metal Terminal Section could be non-ferrous	ACCEPTANCE Certification (2)	Standard Drawings Section G / Manufacturer	/ Manufacturer	ITD-851 ITD-914 with mill test reports attached for steel/iron ITD-915	Total Quantity Paid	Type 5 and Type 10 are certified as complete units, all other types need certifications for each component. See QA Manual Section 230.01 and Section 230.03
Impact Attenuator (Temporary or Permanent) could be plastic or polymer	ACCEPTANCE Certification (2)	[Special Provision] / Manufacturer	/ Manufacturer	ITD-851 ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid ITD-915	See QA Manual Section 230.01 and Section 230.03

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(2) Manufacturer's certification must indicate item meets Manual for Assessing Safety Hardware (MASH) or National Cooperative Highway Research Program (NCHRP) Report 350 requirements on all portions of the NHS and State Highway System. See QA Manual 270.08.

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS	
STANDARD SPECIFICATION SECTION: **612 - CONCRETE BARRIER**							
Pre-Cast	ACCEPTANCE Certification (3)	502.01-B / Manufacturer	/ Manufacturer	ITD-875 with QC test results attached*	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.05	
Cast-In-Place Specified strength of 3,000 psi or less	ACCEPTANCE Certification (3)	502.01-B / Concrete Supplier	/ Concrete Supplier	ITD-875 with QC test results attached	Total Quantity Paid	See QA Manual Section 230.06 Concrete Supplier's certification Note locations on ITD-875.	
Cast-In-Place Specified strength of 3,500 psi or greater	FOLLOW MTR TABLE STANDARD SPECIFICATION SECTION 502						612-2
Metal Reinforcement	ACCEPTANCE Certification (3)	503.02 708.02 / Manufacturer	/ Manufacturer	ITD-914 with mill test results attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03	
Concrete Terminal Section	ACCEPTANCE Certification (3)	Standard Drawings Section G / Manufacturer	/ Manufacturer	ITD-875 with QC test results attached*	Total Quantity Paid	See QA Manual Section 230.01	
STANDARD SPECIFICATION SECTION: **613 - CRASH CUSHIONS**							
Concrete	ACCEPTANCE Certification	509 / Concrete Supplier	/ Concrete Supplier	ITD-875 with QC test results attached*	Total Quantity Paid	See QA Manual Section 230.06 Concrete Supplier's certification Note locations on ITD-875.	
Metal Reinforcement	FOLLOW MTR TABLE STANDARD SPECIFICATIONS SECTION 503						613.
Device	ACCEPTANCE Certification (3)	613 / Manufacturer	/ Manufacturer	ITD 851 ITD-915	Total Quantity Paid	See QPL for list of acceptable devices.	

could be plastic or polymer, assembled, not manufactured

(3) Manufacturer's certification must indicate item meets Manual for Assessing Safety Hardware (MASH) or National Cooperative Highway Research Program (NCHRP) Report 350 requirements on all portions of the NHS and State Highway System. See QA Manual 270.08.

* When total is less than 50CY, QC tests can be from previous batches in the 30 days prior to the first placement.

	BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
614	STANDARD SPECIFICATION SECTION: **614 - SIDEWALKS, DRIVEWAYS, CURB RAMPS**						
	Concrete	ACCEPTANCE Certification	509 / Concrete Supplier	Concrete Supplier	ITD-875 with QC test results attached*	Total Quantity Paid	See QA Manual Section 230.06 Concrete Supplier's certification. Note locations on ITD-875.
	Agg. Base Compaction	ACCEPTANCE Inspection	614.03 / ITD Project Personnel	No Testing Required		Total Quantity Paid	Minimum 2 passes of lightweight mech. Tamper, roller, or vibratory system.
	Subgrade Compaction	ACCEPTANCE In-Place Density	614.02 / ITD Project Personnel	FOP for AASHTO T 99 FOP for AASHTO T 310 Method B / ITD Project Personnel	ITD-850	1 per project	
615	STANDARD SPECIFICATION SECTION: **615 - CURB AND GUTTER**						
	Class 30 Concrete (cast-in-place, precast, extruded)	ACCEPTANCE Certification	509 / Concrete Supplier	Concrete Supplier	ITD-875 with test results attached*	Total Quantity Paid	See QA Manual Section 230.06 Concrete Supplier's certification. Note locations on ITD-875.
	Superpave HMA ½" SP 2 or 3, Non-structural	ACCEPTANCE Inspection	405 /	No Testing Required	ITD-854	Total Quantity Paid	RE Letter-See QA Manual Section 250.00
	Metal Reinforcement	ACCEPTANCE Certification	708.02 / Manufacturer	Manufacturer	ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03. No samples required.
	* When total is less than 50CY, QC tests can be from previous batches in the 30 days prior to the first placement.						

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS	
STANDARD SPECIFICATION SECTION: **616 - SIGNS AND SIGN SUPPORTS**							
Sign Material *All materials for signs and sign supports require certification for acceptance. Acceptance of all components on one ITD-851 certification form is acceptable as long as the components are listed on the ITD-851.*	ACCEPTANCE Certification	Extruded Aluminum 708.26 / Manufacturer	once it becomes a sign, it is not a CM / Manufacturer	ITD-851 / BA N/A	Total Quantity Paid	See QA Manual Section 230.01	616-1
	ACCEPTANCE Certification	Sheet Aluminum 708.27 / Manufacturer	once it becomes a sign, it is not a CM / Manufacturer	ITD-851 / BA N/A	Total Quantity Paid	See QA Manual Section 230.01	
	ACCEPTANCE Certification	Steel and Aluminum sign supports 708.17-A / Manufacturer	/ Manufacturer	ITD-851 or ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid / ITD-915	See QA Manual Section 230.01 and Section 230.03	
	ACCEPTANCE Certification	Hardware for signs 708.18 / Manufacturer	/ Manufacturer	ITD-851or ITD-914 With **no** mill test reports for steel/iron	Total Quantity Paid / ITD-915	See QA Manual Section 230.01 and Section 230.03	
	ACCEPTANCE Certification	Plywood for Type E signs 712.01 / Manufacturer	/ Manufacturer	ITD-851 / BA N/A	Total Quantity Paid	See QA Manual Section 230.01	
	ACCEPTANCE Certification	Reflective Sheeting 712.02 / Manufacturer	/ Manufacturer	ITD-851	Total Quantity Paid	See QA Manual Section 230.01	

	BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
616-2	Overhead Sign Structures	ACCEPTANCE Certification	708.17-B / Manufacturer	Manufacturer	ITD-851 or ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	ITD Central Lab Inspection required See QA Manual Section 230.01 and Section 230.03
	Breakaway Wood Posts	ACCEPTANCE Certification	710.02 710.09 / Manufacturer	Manufacturer	ITD-851 BA N/A	Total Quantity Paid	See QA Manual Section 230.01 The manufacturer must provide a copy of the wood treatment certification to ITD Central Materials Laboratory.
	Steel Brackets and Brace angles	ACCEPTANCE Certification	708.17-A / Manufacturer	Manufacturer	ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03
	Breakaway Steel Sign Posts	ACCEPTANCE Certification	708.17-A / Manufacturer	Manufacturer	ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03
	Breakaway Steel Sign Post Installation	ACCEPTANCE Inspection	708.17-A		ITD-854	Total Quantity Paid	See QA Manual Section 230.01
	Concrete Specified strength of 3,000 psi or less	ACCEPTANCE Certification	509.01-B / Concrete Supplier	Concrete Supplier	ITD-875 with QC test results attached	Total Quantity Paid	See QA Manual Section 230.06 Concrete Supplier's certification Note locations on ITD-875
	Concrete Specified strength of 3,500 psi or greater	FOLLOW MTR TABLE STANDARD SPECIFICATION SECTION 502					
	Metal Reinforcement [with concrete of specified strength of 3,000 psi or less]	ACCEPTANCE Certification	708.02 / Manufacturer	Manufacturer	ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03 No samples required.
	Metal Reinforcement [with concrete of specified strength of 3,500 psi or greater)]	FOLLOW MTR TABLE STANDARD SPECIFICATION SECTION 503					

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS	
STANDARD SPECIFICATION SECTION: **617 - DELINEATORS AND MILEPOSTS**							617
Steel Posts	ACCEPTANCE Certification	708.16 / Manufacturer	Manufacturer	ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03	
Aluminum Posts	ACCEPTANCE Certification	708.16 / Manufacturer	Manufacturer	ITD-851 / ITD-915	Total Quantity Paid	See QA Manual Section 230.01	
Delineator and Milepost Plates	ACCEPTANCE Certification	708.15 / Manufacturer	Manufacturer	ITD-851 / BA N/A	Total Quantity Paid	See QA Manual Section 230.01	
Reflector Units	ACCEPTANCE Certification	712.04 / Manufacturer	Manufacturer	ITD-851 / BA N/A	Total Quantity Paid	See QA Manual Section 230.01	
Reflective Sheeting	ACCEPTANCE Certification	712.02 / Manufacturer	Manufacturer	ITD-851 / BA N/A	Total Quantity Paid	See QA Manual Section 230.01	
Silk Screen Paste	ACCEPTANCE Certification	712.08 / Manufacturer	Manufacturer	ITD-851	Total Quantity Paid	See QA Manual Section 230.01	

	BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
618	STANDARD SPECIFICATION SECTION: **618 - MARKER POSTS, WITNESS POSTS AND STREET MONUMENTS**						
	Right-of-Way Markers	ACCEPTANCE Inspection or Certification for steel/iron	618.02 /	/ No Testing Required	ITD-854 or ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid ITD-915	RE Letter-See QA Manual Section 250.00 See QA Manual Section 230.01 and Section 230.03
	Brass Caps	ACCEPTANCE Inspection	708.28 /	/ No Testing Required	ITD-854 ITD-915	Total Quantity Paid	RE Letter-See QA Manual Section 250.00
	Reference Markers	ACCEPTANCE Inspection or Certification for steel/iron	618.02 /	/ No Testing Required	ITD-854 or ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid ITD-915	RE Letter-See QA Manual Section 250.00 See QA Manual Section 230.01 and Section 230.03
	Project Markers	ACCEPTANCE Inspection or Certification for steel/iron	618.02 /	/ No Testing Required	ITD-854 ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid BA N/A	RE Letter-See QA Manual Section 250.00 See QA Manual Section 230.01 and Section 230.03
	Witness Posts	ACCEPTANCE Inspection or Certification for steel/iron	Steel 708.16 /	/ No Testing Required	ITD-854 or ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	RE Letter-See QA Manual Section 250.00 See QA Manual Section 230.01 and Section 230.03
		ACCEPTANCE Inspection	Wood 710.09 /	/ No Testing Required	ITD-854 BA N/A	Total Quantity Paid	RE Letter-See QA Manual Section 250.00
		ACCEPTANCE Inspection	Fiberglass 618.02 /	/ No Testing Required	ITD-854 BA N/A	Total Quantity Paid	RE Letter-See QA Manual Section 250.00
	Street Monuments	ACCEPTANCE Inspection or Certification for steel/iron	618.02 /	/ No Testing Required	ITD-854 or ITD-914 with test reports attached for steel/iron	Total Quantity Paid	RE Letter-See QA Manual Section 250.00 See QA Manual Section 230.01 and Section 230.03

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS	
STANDARD SPECIFICATION SECTION: **619 - ILLUMINATION**							619
Illumination Poles and Bases could be non-ferrous	ACCEPTANCE Certification	708.19 710.06 Manufacturer	Manufacturer	ITD-851 or ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid ITD-915	See QA Manual Section 230.01 and Section 230.03	
Illumination Components could be non-ferrous	ACCEPTANCE Inspection or Certification for steel/iron	710.07 713.01 713.02 713.03 713.04 713.05 713.06	No Testing Required	ITD-854 or ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid ITD-915	RE Letter-See QA Manual Section 250.00 See QA Manual Section 230.01 and Section 230.03	
Concrete Specified strength of 3,000 psi or less	ACCEPTANCE Certification	509.01(B) Concrete Supplier	Concrete Supplier	ITD-875 with QC test results attached	Total Quantity Paid	See QA Manual Section 230.06 Concrete Supplier's certification Note locations on ITD-875	
Concrete Specified strength of 3,500 psi or greater	FOLLOW MTR TABLE STANDARD SPECIFICATION SECTION 502						
Metal Reinforcement [with concrete of specified strength of 3,500 psi or greater]	FOLLOW MTR TABLE STANDARD SPECIFICATION SECTION 503						
Metal Reinforcement [with concrete of specified strength of 3,000 psi or less]	ACCEPTANCE Certification	503.02 708.02 Manufacturer	Manufacturer	ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03 No samples required.	

	BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
620	STANDARD SPECIFICATION SECTION: **620 - PLANTING**						
	Plants, Commercial Fertilizer, Soil Conditioner, Topsoil, Mulch	ACCEPTANCE Inspection	711.06 711.07 711.08 711.09 711.10 711.12	Visual Inspection	ITD-854	Total Quantity Paid	RE Letter-See QA Manual Section 250.00
				No Testing Required			
621	STANDARD SPECIFICATION SECTION: **621 - SEEDING**						
	Seed, Mulch, Commercial Fertilizer, Rolled Erosion Control Products (RECP), Turf Reinforcement Mats, Irrigation Water, Mulch Tackifier	ACCEPTANCE Certification	711.05 711.07 711.10 711.11 711.12 711.16	AOSA	ITD-851* with Laboratory Analysis Report attached	Total Quantity Paid	See QA Manual Section 230.12Note: State furnished seed is accepted to use on projects but MUST be sampled and tested. Unless it meets all the parameters in QA Manual 230.12.
		ACCEPTANCE Certification	Licensed Supplier / Manufacturer	Licensed Supplier / Manufacturer			
			704.02		ISDA Test Results	1 for each individually packaged seed containers from each species	Include completed ITD-1044 to test lab with seed sample. Send copy of ITD-1044 to HQ Highway Operations, Attention: Roadside Program Administrator *ITD 851 for Contractor supplied seed and not needed for State furnished seed.
			Manufacturer	Manufacturer			
		VERIFICATION Laboratory Test <u>Seed Only</u>	711.05 ITD Project Inspector	Purity and Viability, (Germination & Tetrazolium (TZ)) (Boise) ISDA Seed Laboratory			
			ITD Project Inspector	(Boise) ISDA Seed Laboratory	ITD-851	Total Quantity Paid	
622	STANDARD SPECIFICATION SECTION: **622 – PRECAST CONCRETE HEADGATES**						
	Pre-Cast Concrete Head gates	ACCEPTANCE Certification	502.01-B		ITD-851 & ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.05 See QA Manual Section 230.01 & Section 230.03
			Manufacturer	Manufacturer			

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS	
STANDARD SPECIFICATION SECTION: **623 - CONCRETE SLOPE PAVING**							**623**
Concrete	ACCEPTANCE Certification	502.01-B / Concrete Supplier	Concrete Supplier	ITD-875 with QC test results attached ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	See QA Manual Section 230.06 Concrete Supplier certification Note locations on ITD-875 See QA Manual Section 230.01 & Section 230.03	
Pre-formed-expansion Joint Fillers	ACCEPTANCE Certification	623.02 / Manufacturer	AASHTO M 213 / Manufacturer	ITD-851 ITD-915	Total Quantity Paid	See QA Manual Section 230.01	
Compaction	FOLLOW MTR TABLE STANDARD SPECIFICATION SECTION 205 or 303						
STANDARD SPECIFICATION SECTION: **624 - RIPRAP**							**624**
Loose Placed	ACCEPTANCE Inspection	711.04 /	Visual Inspection / ITD Project Personnel	ITD-854	Total Quantity Paid	RE Letter-See QA Manual Section 250.00 Initial testing required for Apparent Specific Gravity, Absorption, (AASHTO T 85) and Coarse durability Index, (AASHTO T 210). Only visual inspection during placement.	
STANDARD SPECIFICATION SECTION: **625 - JOINTS**							**625**
Pre-Formed Expansion Joint Filler	ACCEPTANCE Certification	704.01 / Manufacturer	Manufacturer	ITD-851 ITD-915	Total Quantity Paid	See QA Manual Section 230.01	
Hot Poured Elastic Type Concrete Joint Sealer	ACCEPTANCE Certification	704.02 / Manufacturer	Manufacturer	ITD-851	Total Quantity Paid	See QA Manual Section 230.01	
Hot Poured Elastomeric Type Concrete Joint Sealer	ACCEPTANCE Certification	704.03 / Manufacturer	Manufacturer	ITD-851	Total Quantity Paid	See QA Manual Section 230.01	
Neoprene Compression Seal	ACCEPTANCE Certification	704.04 / Manufacturer	Manufacturer	ITD-851 ITD-915	Total Quantity Paid	See QA Manual Section 230.01	
Silicone Sealant	ACCEPTANCE Certification	704.05 / Independent Laboratory	Independent Laboratory	ITD-851 with test results attached	Total Quantity Paid	See QA Manual Section 230.01	

	BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
626	STANDARD SPECIFICATION SECTION: **626 – TEMPORARY TRAFFIC CONTROL**						
	Rent Construction Signs, Barricades, Drums, Portable Tubular Markers, Incidental Traffic Control Items	ACCEPTANCE Inspection	Reflectivity 712.02	No Testing Required	ITD-854	Total Quantity Paid	RE Letter-See QA Manual Section 250.00
	Rent Vertical Panels, Advance Warning Arrow Panel, Traffic Control Signal, Hazard Identifi-cation Beacon	ACCEPTANCE Inspection	Reflectivity 712.02	No Testing Required	ITD-854	Total Quantity Paid	RE Letter-See QA Manual Section 250.00
	Temporary Pavement Striping Tape	ACCEPTANCE Inspection	Reflectivity 712.02	No Testing Required	ITD-854	Total Quantity Paid	RE Letter-See QA Manual Section 250.00
	Temporary Flexible Raised Pavement Marker	ACCEPTANCE Inspection	Reflectivity 712.02	No Testing Required	ITD-854	Total Quantity Paid	RE Letter-See QA Manual Section 250.00
	Temporary Rigid Raised Pavement Marker	ACCEPTANCE Inspection	Reflectivity 712.02	No Testing Required	ITD-854	Total Quantity Paid	RE Letter-See QA Manual Section 250.00

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
STANDARD SPECIFICATION SECTION: **627 - PAINTING**						
Painting Steel(4)	ACCEPTANCE Pre-Tests(4)	707.02 / Coordinate with ITD Central Lab	ITD Central Lab	ITD-1832	All lots (1-quart can sample size)	Record lot numbers and lab numbers of approved pre-tested paint from ITD Central Lab letter and/ or ITD-1832.
	ACCEPTANCE Certification	707.03 / Manufacturer	Manufacturer	ITD-851	Total Quantity Paid	See QA Manual Section 230.01
Painting Wood(4)	ACCEPTANCE Pre-Tests(4)	707.02 / Coordinate with ITD Central Lab	ITD Central Lab		All lots (1-quart can sample size)	Record lot numbers and lab numbers of approved pre-tested paint from ITD Central Lab letter.
	ACCEPTANCE Certification	707.03 / Manufacturer	Manufacturer	ITD-851	Total Quantity Paid	See QA Manual Section 230.01
Painting Concrete(4)	ACCEPTANCE Pre-Tests(4)	702.02 / Coordinate with ITD Central Lab	ITD Central Lab	ITD-1832	All lots (1-quart can sample size)	Record lot numbers and lab numbers of approved pre-tested paint from ITD Central Lab letter.
	ACCEPTANCE Certification	707.03 / Manufacturer	Manufacturer	ITD-851	Total Quantity Paid	See QA Manual Section 230.01
(4)Acceptance by Manufacturer's Certification when total project quantity is less than 25 gallons.						

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	BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
628	STANDARD SPECIFICATION SECTION: **628 - SNOW POLES**						
	Rigid Posts for Delineators, Snow Poles, and Mileposts	ACCEPTANCE Inspection Inspection or Certification for steel/iron	708.16 /	/ No Testing Required	ITD-854 or ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	RE Letter-See QA Manual Section 250.00 See QA Manual Section 230.01 and Section 230.03
	Reflector Units for Delineators	ACCEPTANCE Inspection	712.04 /	/ No Testing Required	ITD-854	Total Quantity Paid	RE Letter-See QA Manual Section 250.00
	Flexible Snow Poles	ACCEPTANCE Approved List	712.11 / Manufacturer	/ Manufacturer	Qualified Products List		
630	STANDARD SPECIFICATION SECTION: **630 – PAVEMENT MARKINGS**						
	Waterborne Paint(6)	ACCEPTANCE Laboratory Tests	707 / ITD Project Personnel	/ ITD CentralLab	ITD-1830	Each lot used on Project	Record lot numbers and lab numbers of approved pre-tested paint from ITD Central Lab letter and/ or ITD-1830 or ITD-1831. Do not collect Sample from striper paint guns. **(Not project specific.)** Reject if totes do not match lot numbers.
	Glass Beads (7)	ACCEPTANCE Laboratory Tests	/ ITD Project Personnel	/ ITD Central Laboratory	ITD-1828 BA N/A	50 pound sample of glass beads Each lot used on project (Sample must be left in manufacturer's bag.)	Record lot numbers and lab numbers of approved pre-tested beads from ITD Central Lab letter and/ or ITD-1828. **(Not project specific.)**
	Preformed thermoplastic	ACCEPTANCE Certification	/ Manufacturer	/ Manufacturer	ITD-851 ITD-915	Total Quantity Paid	See QA Manual Section 230.01
	(6) Acceptance by manufacturer's certification when total project quantity is less than 55 gallons.						
	(7) Acceptance by manufacturer's certification when total project quantity is less than 350 gallons.						

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS	
STANDARD SPECIFICATION SECTION: **631 – RUMBLE STRIPS**							
Emulsified Asphalt	ACCEPTANCE Certification	702.02 702.05 / Manufacturer	/ Manufacturer	Loading Certificate	Each individual truck, trailer, car or shipment to the project	See QA Manual section 230.11	
	VERIFICATION Laboroatory Testing	702.03 / ITD Project Personnel	/ ITD Central Materials Laboratory	ITD-1045	1 undiluted sample (as received from the asphalt supplier) per project	No Samples required when total project quantity is less than 2000 Gal (8 Tons) (7600 L).	
							634
Support	ACCEPTANCE Certification	708.16 710.02 / Manufacture	/ Manufacturer	ITD-851 or ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid ITD-915	See QA Manual Section 230.01 and Section 230.03	
For other than steel, see BA Summary Table							
Mailbox	ACCEPTANCE Inspection or Certification for steel/iron	634.02 /	/ No Testing Required	ITD-854 or ITD-914 with mill test reports attached for steel/iron	Total Quantity Paid	RE Letter-See QA Manual Section 250.00 See QA Manual Section 230.01 and Section 230.03	
STANDARD SPECIFICATION SECTION: **635 - ANTI-SKID MATERIAL**							
Aggregate (Production)	ACCEPTANCE Gradation	703.10 / ITD Project Personnel	FOP for AASHTO R 90 FOP for AASHTO R 76 FOP for AASHTO T 11 FOP for AASHTO T 27 / ITD Project Personnel	ITD-901	Each 1,000 Tons		**635**
	INDEPENDENT ASSURANCE Gradation Sand Equivalent	IA Inspector	IA Inspector	ITD-857	Each 20,000 Tons		

	BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
640	STANDARD SPECIFICATION SECTION: **640 - GEOSYNTHETICS**						
	Drainage Geotextile	ACCEPTANCE Certification	718.05 / Manufacturer	ASTM D4632 ASTM D6241 ASTM D4751 ASTM D4491 ASTM D4533 / Manufacturer	ITD-849 with QC test results attached ITD-915	Total Quantity Paid	See QA Manual Section 230.09
		VERIFICATION Laboratory Tests(5)	718.05 / ITD Project Personnel	ASTM D4632 ASTM D6241 ASTM D4533 / ITD Central Lab	ITD-1044(5A) (Sample Data) ITD-1047 (Lab Reports)	1 sample per lot (5B)	See QA Manual Section 230.09 Samples will not be tested unless requested.
	Riprap/Erosion Control Geotextile	ACCEPTANCE Certification	718.06 / Manufacturer	ASTM D4632 ASTM D6241 ASTM D4533 ASTM D4751 ASTM D4491 ASTM D4355 / Manufacturer	ITD-849 with QC test results attached ITD-915	Total Quantity Paid	See QA Manual Section 230.09
		VERIFICATION Laboratory Tests(5)	718.06 / ITD Project Personnel	ASTM D4632 ASTM D6241 ASTM D4533 / ITD Central Lab	ITD-1044(5A) (Sample Data) ITD-1047 (Lab reports)	1 sample per lot (5B)	See QA Manual Section 230.09 Samples will not be tested for ASTM D4632 unless requested.
	Subgrade Separation Geotextile	ACCEPTANCE Certification	718.07 / Manufacturer	ASTM D4632 ASTM D6241 ASTM D4533 ASTM D4751 ASTM D4491 / Manufacturer	ITD-849 with QC test results attached ITD-915	Total Quantity Paid	See QA Manual Section 230.09
		VERIFICATION Laboratory Tests(5)	718.07 / ITD Project Personnel	ASTM D4632 ASTM D6241 ASTM D4533 / ITD Central Lab	ITD-1044(5A) (Sample Data) ITD-1047 (Lab reports) ITD-915	1 sample per lot (5B)	See QA Manual Section 230.09 Samples will not be tested for ASTM D4632 and D4533unless requested.

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS	
Pavement Overlay Geotextile	ACCEPTANCE Certification	718.08 / Manufacturer	ASTM D4632 ASTM D4533 ASTM D6140 / Manufacturer	ITD-849 with QC test results attached ITD-915	Total Quantity Paid	See QA Manual Section 230.09	640
	VERIFICATION Laboratory Tests(5)	718.08 / ITD Project Personnel	ASTM D4632 ASTM D4533 ASTM D6140 / ITD Central Lab	ITD-1044(5A) (Sample Data) ITD-1047 (Lab Reports)	1 sample per lot (5B) ITD-915	See QA Manual Section 230.09 Samples will not be tested unless requested.	
STANDARD SPECIFICATION SECTION: **641 – BIAXIAL GEOGRID**							641
Geogrid	ACCEPTANCE Certification	641.02 / Manufacturer	ASTM D6637 ASTM D7748 GRI-GG2 (2000) COE CW-02215 / Manufacturer	ITD-849 with QC test results attached ITD-915	Total Quantity Paid	See QA Manual Section 230.09	
	VERIFICATION Laboratory Tests(5)	641.02 / ITD Project Personnel	ASTM D6637 / ITD Central Lab	ITD-1044(5A) (Sample Data) ITD-1048 (Lab Reports)	1 sample per lot (5B)	See QA Manual Section 230.09	

(5) No Samples required for quantities less than 1000 square yards.

(5A) Include acceptance certification documents with ITD-1044 and sample.

(5B) A lot is defined as geotextile or geogrid rolls within the same consignment or shipment that a manufacturer produced under the same lot number with the same product name or designation (Section 718.03 Samples of ITD Standard Specifications)

The following geosynthetic materials cannot be tested by ITD and will be accepted by certifications with required Form No. ITD-849 with QC test results attached:

- Prefabricated Vertical Drain (Wick Drain), Prefabricated Drainage Mat (Geocomposite Drainage System), Edge Drain, Geonet.
- Geocell (Cellular Confinement System).
- Geomembrane, Geosynthetic Clay Liner.

	BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
645	STANDARD SPECIFICATION SECTION: **645 – FIELD LABORATORIES**						
	Field Laboroatory Class I, II, III, & IV	ACCEPTANCE Certification	645 / Contractor	/ Contractor	ITD-922 Povide proof of Laboroaory Certification	1 per project	See Laboratory Operations Manual Section 230
		VERIFICATION Inspection	645 / ITD Project Personnel	/ ITD Project Personnel	ITD-921	Prior to taking posession	See Laboratory Operations Manual Section 230
647	STANDARD SPECIFICATION SECTION: **647 – TEMPORARY TURBIDITY CURTAIN**						
	Turbidity Curtain	ACCEPTANCE Certification	647 / Manufacturer	ASTM D4632 ASTM D6241 ASTM D4533 ASTM D4751 ASTM D4491 / Manufacturer	ITD-849 with QC test results attached	Total Quantity Paid	See QA Manual Section 230.09
		VERIFICATION Laboratory Tests(5)	647 718.07 / ITD Project Personnel	ASTM D4632 ASTM D6241 ASTM D4533 / ITD Central Lab	See 640-Geotextiles, Subgrade Separation Geotextile		
650	STANDARD SPECIFICATION SECTION: **650 – TIME-LAPSE CAMERA**						
	Time Lapse Camera	ACCEPTANCE Certification	650 / Manufacturer	/ Manufacturer	ITD-851	Total Quantity Paid	
651	STANDARD SPECIFICATION SECTION: **651 – LAWN CONSTRUCTION**						
	Turf seed	ACCEPTANCE Certification	651 / Manufacturer	/ Manufacturer	ITD-851	Total Quantity Paid	
	Sod	ACCEPTANCE Certification	651.02-A / Manufacturer	/ Manufacturer	ITD-851	Total Quantity Paid	
	Fertilizer and Soil Conditioners	ACCEPTANCE Certification	711.07 711.08 / Manufacturer	/ Manufacturer	ITD-851	Total Quantity Paid	

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS	
Spil Amendment	ACCEPTANCE Certification	711.18 / Manufacturer	Manufacturer	ITD-851	Total Quantity Paid		651
Mulch	ACCEPTANCE Certification	711.10 / Manufacturer	Manufacturer	ITD-851	Total Quantity Paid		
STANDARD SPECIFICATION SECTION: **652 – UNDERGROUND SPRINKLER SYSTEM**							652
Water Pipe and Fittings	ACCEPTANCE Certification	652.02-A / Manufacturer	Manufacturer	ITD-851 ITD-915	Total Quantity Paid		
Sprinkler Heads	ACCEPTANCE Certification	652.02-B / Manufacturer	Manufacturer	ITD-851 ITD-915	Total Quantity Paid		
Vacuum Breakers	ACCEPTANCE Certification	652.02-C / Manufacturer	Manufacturer	ITD-851 ITD-915	Total Quantity Paid		
Gate Valves	ACCEPTANCE Certification	652.02-D / Manufacturer	Manufacturer	ITD-851 ITD-915	Total Quantity Paid		
Quick Coupling Valves, Valve Cuoplers, and hose Swivels	ACCEPTANCE Certification	652.02-E / Manufacturer	Manufacturer	ITD-851 ITD-915	Total Quantity Paid		
Electric Automatic Controls	ACCEPTANCE Certification	652.02-F / Manufacturer	Manufacturer	ITD-851 ITD-915	Total Quantity Paid		
Section (Zone) Control Valves and master Valves	ACCEPTANCE Certification	652.02-G / Manufacturer	Manufacturer	ITD-851 ITD-915	Total Quantity Paid		
Electrical Conductors	ACCEPTANCE Certification	652.02-H / Manufacturer	Manufacturer	ITD-851	Total Quantity Paid		
Water and Power Source	ACCEPTANCE Certification	652.02-I / Manufacturer	Manufacturer	ITD-851			
STANDARD SPECIFICATION SECTION: **653 – COMPOST**							653
Compost	ACCEPTANCE Certification	654.02 / Manufacturer	Manufacturer	ITD-851			

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
656	STANDARD SPECIFICATION SECTION: **656 - TRAFFIC SIGNAL INSTALLATION**					
Signal Poles and Mast Arms	ACCEPTANCE Certification	656.02 / Manufacturer	/ Manufacturer	ITD-914 with mill test reports attached ITD-915	Total Quantity Paid	See QA Manual Section 230.03
Signal Components	ACCEPTANCE Inspection or Certification for steel/iron	/	/ No Testing Required	ITD-854 or ITD-914 no mill test reports for steel/iron ITD-915	Total Quantity Paid	RE Letter-See QA Manual Section 250.00 See QA Manual Section 230.01 and Section 230.03
Signal Cabinet Electrical Components	ACCEPTANCE PRE-TEST	/	/ HQ or District Traffic	ITD-500 memo BA N/A		Post acceptance memo on MSR
State-Furnished Material		/	/ No Testing Required			
Concrete Specified strength of 3,000 psi or less	ACCEPTANCE Certification	509.01(B) / Concrete Supplier	/ Concrete Supplier	ITD-875 with QC test results attached	Total Quantity Paid	See QA Manual Section 230.06 Note locations on ITD-875
Concrete Specified strength of 3,500 psi or greater	FOLLOW MTR TABLE STANDARD SPECIFICATION SECTION 502					
Metal Reinforcement [with concrete of specified strength of 3,500 psi or greater]	FOLLOW MTR TABLE STANDARD SPECIFICATION SECTION 503					
Metal Reinforcement [with concrete of specified strength of 3,000 psi or less]	ACCEPTANCE Certification	503.02 708.02 / Manufacturer	/ Manufacturer	ITD-914 with mill test reports attached	Total Quantity Paid	See QA Manual Section 230.01 and Section 230.03 No samples required

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES, OR ADDITIONAL DIRECTIONS
STANDARD SPECIFICATION SECTION: **MISCELLANEOUS BUILDING ITEMS**						
Compaction	ACCEPTANCE Density	205.03 / ITD Project Personnel	FOP for AASHTO T 310 Method B / ITD Project Personnel	ITD-850	At least 1 per project	
Structural Concrete (Footings, Foundations, Piers)	FOLLOW MTR TABLE STANDARD SPECIFICATION SECTION 502					
Non-Structural Concrete (Sidewalks, Driveways, Slabs)	ACCEPTANCE Certification	502.02 (B) / Concrete Supplier	Concrete Supplier	ITD-875 with QC test results attached	Total Quantity Paid	See QA Manual Section 230.06 Concrete Supplier's certification Note locations on ITD-875
Metal Reinforcement (for structural concrete-footings, foundations, piers)	FOLLOW MTR TABLE STANDARD SPECIFICATION SECTION 503					
Paint	FOLLOW MTR TABLE STANDARD SPECIFICATION SECTION 627 (No sampling or testing required when total project quantity is less than 25 gallons.)					

MISCELLANEOUS BUILDING ITEMS

MISCELLANEOUS ITEMS

BID ITEM/ MATERIAL	PURPOSE OF TESTING	ITD SPEC. REF. / SAMPLED BY	TEST METHOD / TESTED BY	REQUIRED REPORT FORM NO.	MINIMUM REQUIRED FREQUENCY	REMARKS, NOTES OR ADDITIONAL DIRECTIONS
STANDARD SPECIFICATION SECTION: **MISCELLANEOUS ITEMS**						
Magnesium Chloride for Dust Control	ACCEPTANCE Laboratory Tests	[Special Provision] / ITD Project Personnel	Per Specs / ITD Central Lab	ITD-1044 (Sample Data) ITD-1822	Each 100 tons or 1 per project	Follow Special Provision requirements for acceptance; either by test or by certification. See QA Manual Section 230.01 for certification requirements.
	ACCEPTANCE Certification	[Special Provision] / Manufacturer	/ Manufacturer	ITD-851	Total Quantity Paid	
Epoxies	ACCEPTANCE Certification	720.04 / Manufacturer	/ Manufacturer	ITD-851	Total Quantity Paid	See QA Manual Section 230.01
Methyl Methacrylate (MMA) Pavement Markings (8)	ACCEPTANCE Laboratory Tests	/ Manufacturer	/ ITD Central Lab	ITD -1831	Each lot used on Project	Manufacturer provides samples to Central Materials Laboratory. Allow 14 days for pre-test results.
	ACCEPTANCE Certification(6)	/ Manufacturer	/ Manufacturer	ITD-851	Total Quantity Paid	See QA Manual Section 230.01

(6) Acceptance by manufacturer's certification when total project quantity is less than 55 gallons.

(8) When warranty applies, no samples or certifications required. A copy of the warranty must be in the project files; post a remark on MSR.

SECTION 400.00 – PROJECT MATERIALS CERTIFICATION

SECTION 400.00 – PROJECT MATERIALS CERTIFICATION

The Department has implemented procedures in accordance with State and Federal regulations for ensuring the materials incorporated into highway projects meet the required contract specifications.

400.01 Materials Certification Submittal Requirements by Project Type. The following documents are used for project materials certification to demonstrate that the materials incorporated into the project meet the required contract specifications:

- Materials Certification Letter (See Section 470.00)
- Materials Summary Report, (MSR) (See Section 420.00)
- ITD-852 Materials Certification Checklist (See Section 450.00)
- ITD-854 Resident Engineer's Letter of Inspection (See Section 430.00)
- ITD-860 Independent Assurance Test Log (See Section 440.00)

Instructions for the above documents are detailed in the indicated Sections.

Table 400.01.1 lists the documents that are required for project materials certification based on funding and project type as shown on the table. The District Engineer's Final Letter of Acceptance is used to document project materials certification for projects not requiring a Materials Summary Report and Materials Certification Letter.

For all projects, adequate records to document proper testing and inspection are required and must be maintained in the project files.

Table 400.01.1. Project Materials Certification Requirements

Type of Project	Are there materials incorporated in the project?	HQ Submittal Materials		District Engineer Final Letter of Acceptance
		Materials Certification Checklist (ITD-852)	Materials Certification Letter and Materials Summary Report (including IA Log & RE Letter)	
Federal-Aid On State Highway System	Yes	Yes	Yes	Yes
	No	Yes	No	Yes
Federal-Local On-System No State Funds	Yes	Yes	Yes	Yes
	No	Yes	No	Yes
Federal-Local Off-System No State Funds Federal-Aid Limit $500k or more	Yes	Yes	Yes	Yes
	No	Yes	No	Yes
Federal-Local Off-System No State Funds Federal-Aid Limit less than $500k	Yes	Yes	No	Yes
	No	Yes	No	Yes
State-funded on NHS	Yes	Yes	Yes	Yes
	No	Yes	No	Yes
State-funded off NHS	Yes	Yes	Yes	Yes
	No	Yes	No	Yes

SECTION 410.00 – REPORTS AND DOCUMENTATION. The Department and its employees and consultants must use AASHTOWare Project Construct Module and ProjectWise for project related reports and documentation. All field test reports, laboratory test reports, source documents, certifications, and other miscellaneous records/documents involving inspection, testing, and acceptance of materials, are a part of the documentation of project records. These reports are considered a permanent record and are to be preserved with other permanent records (e.g., survey notes, quantity measurements). These records form the basis for certifying compliance with specification requirements of the contract to Department staff, State auditors, and the Federal Highway Administration for the materials used in construction.

The project files must sufficiently document that the acceptance of material was performed in accordance with the minimum testing requirements and the contract specifications. Specific instructions for each test report form are to be followed with the understanding that complete documentation is required for each contract. Any reports or records that apply from another contract must be duplicated. There must be no doubt of the validity of the record applying to the pertinent project. Required materials documentation must be in the item files. If the same material is used for another item, an additional copy must be added in the project item file. Add posting in the MSR for each item.

410.01 Materials Acceptance Plan (MAP) or ITD-862 Sampling Schedule. Project personnel must plan ahead using the minimum testing requirements (MTRs) and the contract specifications to determine the requirements for acceptance of all bid items and change orders. Each district must develop a project MAP or ITD-862 Sampling Schedule for reference by the project personnel before construction and update during construction.

The development of the MAP or sampling schedule should be a joint effort by District Materials and project personnel. The final MAP must summarize the acceptance requirements for all items including any small quantities (see Section 270.04), items using nonstandard acceptance (see Section 270.05), or special provision items (see Section 270.06). The final MAP should be reviewed and signed by the Resident Engineer and the District Materials Engineer. When requested by the District, HQ Construction/Materials will review and provide comment on the MAP for non-standard special provision items.

410.02 Checking Test Reports and Documents. Laboratory tests, field tests, and certification reports are forwarded to the Resident Engineer whose staff regularly checks the reports so that deviations from specifications and poor documentation are mitigated. It is required that the person checking test reports have ITD STQP qualification for the test being checked or an Idaho PE license (see Section 210.01). Any discrepancies, lack of information, or incompleteness of the reports must be corrected without delay. After the checks are made, the reports are recorded for the Materials Summary Report (see Section 425.00 for directions) and placed in the project files. Any items receiving less than the minimum requirements of sampling and testing and/or varying from specifications must have the corrective action or remedy efforts explained by the Resident Engineer. The explanation must include the justification for acceptance, rejection, or price adjustment of noncompliant material. The explanation is recorded and noted for the Materials Summary Report.

SECTION 420.00 – MATERIALS SUMMARY REPORT. The Materials Summary Report (MSR) shows the basis for acceptance of all bid items and change orders of the contract as required by the minimum test requirements (MTRs) and contract specifications and includes:

- Acceptance test results.
- Manufacturer's certifications.
- Laboratory acceptance and verification test results.
- Notes to explain the resolution for any failing test results or lack of minimum testing.
- Notes to explain the basis for accepting any material not tested or not certified according to the minimum testing requirements or contract specifications.

The MSR is compiled for each construction contract as indicated in Table 401.00.1 by posting all of the field and laboratory test reports and manufacturer's certifications into the electronic Materials Summary Program. Post data daily to ensure current reporting. Post all test reports as soon as possible after they are received and checked. It is good practice to maintain the MSR so that it is contemporaneous with the most current pay estimate.

See Section 425.00 for the required postings for the MSR.

The MSR must be printed after each pay estimate and kept in a binder or file folder for easy access.

Adequate documentation of failures and/or deviations from specification requirements must be included in the MSR to justify acceptance, rejection, or price adjustment of contract items. Section 215.00 contains details about documentation for non-compliant material.

SECTION 425.00 – COMPLETING THE MSR. The following guidelines are provided for use in typical project situations to accurately complete a project Materials Summary Report (MSR).

The acceptance documents are posted in the MSR under the contract item where the material was paid for. When material is incidental to a contract item, the posting must be shown under the associated contract item.

- The posting must be done using ProjectWise.
- Every contract item, including change orders, where there was material used on the project must be included in the MSR.
- Some contract items will have multiple postings in the MSR because there is more than one acceptance requirement as shown in the MTR tables.
- The postings of test result data for items that require statistical analysis (QASP items) must be checked for accuracy by someone other than the person who posted the data.
- Accepted material on ITD-0854 Resident Engineer's Letter of Inspection of Contract Items must have the required material documentation in the project item file.
- Required materials documentation must be in the item files. If the same material is used for another item, an additional copy must be added in the project item file. Add posting in the MSR for each item.
- Documentation (such as a printout of the QPL page showing approval of the item) must be placed in the project files and posted in the MSR for QPL items that were on ITD's QPL at the time of the project.
- Documentation of individual sign components (e.g., aluminum sheet, reflective coating) must be listed separately on the ITD-0851 Manufacturer's Material Certification form.
- Documentation of all steel and iron products must be in compliance with Section 230.03.03.
- ITD-0858 Materials Summary for District IA Audits showing deficiency findings must not be deleted from its record. All resolutions and final determinations must be on the ITD-0858 form for all deficiencies initially found by the District IA.
- All MSR information must be present or documented in the project file
- HQ handles the review and documentation of items such as pre-stressed girders. But the district must review the packets sent from HQ and document them in the MSR like all other project items.
- File memos must present a clear and complete picture of what occurred and how project specifications were met. These explanations must be clear to an individual not associated with the project.
- HMA lot quantities must be based on work shift totals as defined in the QASP.

- Independent assurance testing must be done in the district and documented in the project files.
- Non-standard items must be identified on ITD-0862 form.
- Document compaction effort (e.g., bridge abutments, back fill, embankment) for each lift on the ITD-0850 form. All pertinent information must be filled out completely.
- Records of FOP for AASHTO T 27 must be documented when using “Too Granular to Test” per lift on the ITD-0850 form. Granular Borrow must have the Sand Equivalent test done for ITD-0850 form.

Use Table 425.00.1 to determine the minimum information required in the MSR. Find the contract bid item in the Section 270.00 MTR tables of the Quality Assurance Manual, and then use the MTR tables to identify the type of acceptance requirements. Then, find the type of acceptance in the left column of the table below and provide the required information in the MSR as is described in the corresponding right hand column.

Note: The Acceptance Test Strip is required to be shown on the MSR; post both passing and failing test strips and the disposition of the failing test strip(s). The smoothness results are not required on the MSR.

Table 425.00.1: Minimum Information Required in MSR

Acceptance Type from MTR Tables	Postings Required in the MSR
Statistical Analysis (QA Special Provision)	
	Remarks explaining actions taken when any lot falls below 60 PWL
	Copy of lot summary report for each lot of production testing
	Remarks to indicate evaluation procedures taken when there is a failure
Field Tests (other than statistical analysis) [1]	Date sampled
	Test number
	Indication of pass or fail test results
	A remark indicating the location of the in-place density test for pipe or structure backfill
	Remarks to indicate tests that are considered check tests for failing tests
	Remarks to indicate the corrective action taken for a failing test
	Remarks to indicate acceptance when testing is not performed, such as, too granular to test
Manufacturer's or Fabricator's Certification	Date certification statement signed
	Quantity of material certified
	Manufacturer or fabricator company signing certification
Laboratory Verification Tests	Date sampled
	Sample number
	Laboratory number
	Indication of pass or fail test results
	Remarks to indicate corrective action or price adjustment for a failing test
Laboratory Acceptance Tests	Date sampled
	Sample number
	Laboratory number
	Indication of pass or fail test results
	Remarks to indicate corrective action or price adjustment for a failing test
Pre-Tested or Pre-Approved Tests (Approved Lists)	Remarks to indicate the material/product used on the project is included on the approved list maintained by HQ Materials Section
Acceptance by Inspection	Item will be shown on the ITD-854, Resident Engineer's Letter of Inspection
Small Quantity or Non-Standard Acceptance (see Section 270.04 & 270.05)	Remarks to summarize the basis of acceptance including the following where applicable: • Remarks to indicate aggregates obtained from approved materials source • Remarks to indicate mix design approval for plant mix or concrete • Post core test results for plant mix paving on mainlines or intersections • Remarks to indicate visual inspection during installation, placement or compaction

[1] (field tests are: in-place density, gradation, sand equivalent, fracture count, cleanness value, field saybolt viscosity, presence of anti-strip additive, asphalt content of plant mix, plant mix test strip, air/slump/temperature/unit weight of concrete)

Acceptance Type from MTR Tables	Postings Required in the MSR
Special Provisions (see Section 270.06)	Post acceptance information as indicated in the special provision OR as indicated below if not specified in the special provision.
	When material is included in MTR table and used in a standard application, find MTR acceptance type above and post the same information
	When special provision indicates the material must meet a given specification, such as AASHTO or ASTM: Post same information shown above for manufacturer's certification.
	When material is not included in MTR tables or not used in standard application: Remarks to summarize basis of acceptance as determined by the Engineer and District Materials Engineer.
Change Orders (see Section 270.07)	Post acceptance information as indicated in the change order OR as indicated below if not specified in the change order.
	For standard pay items or when material is included in MTR tables and used in a standard application, find MTR acceptance type above and post the same information
	When change order indicates the material must meet a given specification, such as AASHTO or ASTM: Post same information shown above for manufacturer certification.
	When material is not included in MTR tables or not used in standard application: Remarks to summarize basis of acceptance as determined by the Engineer and District Materials Engineer

SECTION 430.00 – RESIDENT ENGINEER'S LETTER OF INSPECTION (ITD-854). The purpose of the Resident Engineer's Letter of Inspection (ITD-854) is for the Resident Engineer to document the inspection of certain materials and to document the materials are acceptable according to the plans and specifications. The form should not be used as a catchall for items usually accepted by sampling and testing Inclusion on the form does not excuse the inspector from sampling and testing or obtaining manufacturer certifications as required by the Minimum Testing Requirements. A copy of the completed Resident Engineer's letter must be submitted with the MSR at the completion of the project. The required material documentation must be added to the project item file. See Section 250.00 for complete information on the Resident Engineer's Letter of Inspection.

SECTION 440.00 – INDEPENDENT ASSURANCE TEST LOG (ITD-860). Independent Assurance tests are not posted in the Materials Summary Report, but are recorded on the IA Test Log (form ITD-860) by the Department project personnel. A copy of the complete IA test log must be submitted with the MSR at the completion of the project. See Section 370.00 for information on completion of the IA Test Log.

SECTION 450.00 – MATERIALS CERTIFICATION CHECKLIST (ITD-852).

Resident Engineer's office prepares the ITD-852 Materials Certification Checklist by completing each checkbox shown on the form. Explanations must be included in the "Remarks" field for any items checked "No." Known exceptions to the materials acceptance requirements for the project must be identified on the form. Once complete, the checklist is provided to the Resident Engineer and Engineering Manager for review and signature. For projects not requiring a Materials Summary Report, per Table 401.00.1, check the appropriate box to indicate no Materials Summary Report is required and complete the remainder of the form as applicable for the project.

SECTION 460.00 – DISTRICT AUDIT OF MATERIALS SUMMARY REPORT. The District will perform an independent assurance audit of the Materials Summary Report (MSR) for all projects. Independent Assurance audits must be performed by individuals who are:

1) Currently qualified in all WAQTC modules along with the Concrete Laboratory Testing Technician (CLTT)

2) Independent of both the project, other construction projects, and the residency

3) Deemed by the District Engineer as knowledgeable in the preparation and review of Materials Summary Reports.

The audit must be done periodically as the project progresses. The most current pay estimate must be used as a guide to determine that material paid for was accepted in accordance with the contract requirements. Any deviations or exceptions found during the audit must be resolved to the satisfaction of the District Materials Engineer or the District Engineer before issuance of the Materials Certification Letter.

- District audit of MSR report must be completed using the ITD-858 form.
- The District Materials Engineer or the District Engineer will review this MSR audit, make final resolution, and then sign the ITD-858 form.
- A close-out should be held with Department project personnel to discuss any deviations found and to obtain a resolution statement. See Section 360.03 of this manual.
- A copy of the completed ITD-858 must be included in the project files. Any ITD-0858 forms with deficiency findings must not be deleted from record. All resolutions and final determinations must be on the ITD-0858 form for all deficiencies initially found by the District IA.

460.10 District Audit of GARVEE and Consultant CE&I projects. The GARVEE and Consultant CE&I projects have an assigned Department Resident Engineer. The individual assigned to audit the records will contact the assigned Resident Engineer to make arrangements for the on-site review of the project materials records.

SECTION 470.00 – MATERIALS CERTIFICATION LETTER. When the MSR and associated documentation is considered acceptable, the District will prepare the Materials Certification Letter using the inter-department memo (ITD-500) addressed to the Construction/Materials Engineer (see Example 470.02 at the end of this section) for the District's Engineer signature. The Materials Certification Letter is prepared and submitted to the District Engineer along with a copy of ITD-860, ITD-852, ITD-854, and the Materials Summary Report for review, signature, and distribution.

The Materials Certification Letter must contain the following statement (per *23 CFR 637*):

This is to certify that:

The results of the tests used in the acceptance program indicate that the materials incorporated in the construction work, and the construction operations controlled by sampling and testing, were in conformity with the approved plans and specifications. All independent assurance samples and tests are within tolerance limits of the samples and tests that are used in the acceptance program.

Explanations for exceptions to the plans and specifications are as follows:

The Materials Certification Letter must list, by contract item, any exceptions and how they were resolved, which includes an explanation for justification of acceptance of the contract item. See Example 470.02 at the end of this section.

For Federal-aid projects of interest, the FHWA will review the below listed items in order to concur in the Materials Certification.

1. District Engineer Materials Certification Letter.
2. ITD-0858 Materials Summary Report District IA Audit.
3. Final Estimate.
4. ITD-0852 Materials Certification Checklist.
5. ITD- 0854 Resident Engineer's letter of Inspection of Contract Items.
6. ITD-0860 Independent Assurance Log.
7. Materials Summary report for any contract pay items that has exceptions to the contract specifications or plans including the following notes:
    a. Notes to explain the resolution for any failing test results or lack of minimum testing.
    b. Notes to explain the basis for accepting any material not tested or not certified according to the minimum testing requirements or contract specifications.

Submit these documents (via cc) to the FHWA for review and approval. Upon review and approval; submit final non-participation determinations to the Department's Financial Services. See Example 470.03 at the end of this section.

470.01 Exceptions. An exception is considered any instance where non-specification material is identified, the non-specification material is allowed to remain, and corrective action was required. A failing test with an immediate passing check test is not considered non-specification material. Corrective action is remedial methods, such as price adjustments or contractor repair work.

When there are indications of acceptance of non-specification material in the materials summary report, then the corrective action taken must be included in the summary remarks and in the certification letter. For QA Special Provision contract items, non-specification material is a lot where the pay factor for any quality characteristic is below 0.60 PWL and the material was allowed to remain.

An exception is also when contract specifications and/or minimum testing requirements were not met. This may be lack of acceptance testing, lack of IA testing, or lack of manufacturer's certifications. It is usually not possible to remedy or justify these exceptions, especially if not discovered until the project is complete. A full explanation of the circumstances is necessary to ascertain the consequences of the deviation from the specifications, including the quantities accepted without the required testing or certifications. In some cases, material quantities may not be eligible for Federal-aid participation. The District will determine non-participation using the current memorandum of understanding between the Department and the Federal Highway Administration Idaho Division Office.

Exceptions must be listed by contract item number on the Materials Certification Letter as follows:

- Number of tests representing non-specification material out of the total number of tests performed. This includes remarks for justification that allowed material to remain in place.
- Total number of tests performed and number of tests required by the minimum testing requirements when the number of tests performed is less than the required minimum, including lack of or failure to perform Independent Assurance testing.
- Lack of required manufacturer's certifications covering the quantity of material paid for.
- QA Special Provision item where the pay factor was less than 0.60 PWL and a description of action taken.
- QA Special Provision item where t test failed and there is no indication an evaluation was made.
- Price adjustment, if applied, or justification for acceptance or rejection of material with failing laboratory test.

The items ineligible for Federal-aid participation including the dollar amount must be shown on the Materials Certification Letter.

Exceptions to the Buy America specification must be presented to FHWA for a determination of a resolution, see Section 230.01.02 Buy America.

470.02 Materials Certification Letter Example (Non-Full Oversight Project Example)

IDAHO TRANSPORTATION DEPARTMENT

Department Memorandum

DATE: PROJECT NO.(S):

TO: NAME

CONSTRUCTION/MATERIALS ENGINEER

FROM: NAME:

DISTRICT ___ ENGINEER

RE: MATERIALS CERTIFICATION LETTER (NON-FULL OVERSIGHT PROJECT)

This is to certify that:

The results of the tests used in the acceptance program indicate that the materials incorporated in the construction work, and the construction operations controlled by sampling and testing, were in conformity with the approved plans and specifications. All independent assurance samples and tests are within tolerance limits of the samples and tests that are used in the acceptance program.

Explanations for exceptions to the plans and specifications are as follows:

303-005A 3/4 in. Aggregate Base: Lot #3 had a pay factor of .74 and was removed and replaced by the contractor.
405-025A PL MX PAV CL SP 3: Acceptance Test Strip #1 failed and was paid at 50%.
602-035A 18-in. Pipe Culvert: There are no required manufacturer's certifications for 500 feet of pipe.
640 Subgrade Geotextile: No required laboratory verification tests were performed. The item was accepted by manufacturer's certification.

S501-010 MSE Retaining Wall: The Department laboratory test was failing for cement and a price adjustment of 25% was applied.

The original of the Materials Summary Report, correspondence, manufacturer's certifications, and test reports are on file in the project records.

cc:

DE ___
District ____ Engineering Manager
DMTL w/attach
RE (original attach)
DRI (w/attach)
C/M Engineer (w/attach)
Financial Services

470.03 Materials Certification Letter Example (Full Oversight Project)

IDAHO TRANSPORTATION DEPARTMENT

Department Memorandum

DATE: PROJECT NO.(S):

TO: NAME

CONSTRUCTION/MATERIALS ENGINEER

FROM: NAME:

DISTRICT ___ ENGINEER

RE: MATERIALS CERTIFICATION LETTER (FULL OVERSIGHT PROJECT)

This is to certify that:

The results of the tests used in the acceptance program indicate that the materials incorporated in the construction work, and the construction operations controlled by sampling and testing, were in conformity with the approved plans and specifications. All independent assurance samples and tests are within tolerance limits of the samples and tests that are used in the acceptance program.

Explanations for exceptions to the plans and specifications are as follows:

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S501-010 MSE Retaining Wall: The Department laboratory test was failing for cement and a price adjustment of 25% was applied.

The original of the Materials Summary Report, correspondence, manufacturer's certifications, and test reports are on file in the project records.

cc:
DE ___
District ____ Engineering Manager
DMTL w/attach
RE (original attach)
DRI (w/attach)
C/M Engineer (w/attach)
FHWA (w/ attachment)