*ADD THE FOLLOWING SECTION:*

SECTION 111 – CONTRACTOR QUALITY CONTROL ADMINISTRATION – GENERAL CONTRACTOR PROGRAM

111.01 GENERAL

* 1. The Contractor Quality Control Program includes the following Sections:
		1. Section 111 - Contractor Administration and Quality Control-General Contractor Program
		2. Section 112 - Contractor Quality Control Administration
		3. Section 113 – Contractor Quality Control Organization and Qualification of Laboratories and Technicians
		4. Section 114 – Contractor Quality Control Procedures
		5. Section 117 - Contractor Quality Control Testing
	2. Program Documents: A written program does not have to be submitted if the Contractor performs the administration, and testing in accordance with this and other referenced sections. The only submittal required for approval for the quality control program itself is the personnel qualifications as listed in Section 113, "Contractor Quality Control Organization and Qualification of Laboratories and Technicians."
	3. Federal projects require a Quality Control Coordinator (QCC) separate from the Responsible Person-in-Charge (RPC). The QCC and RPC shall be located on‑site full-time. The description of these positions are in Subsection 113.02 “Organization.” The contractor shall submit, for approval by the Engineer, an organization chart indicating the position numbers and the persons responsible.

111.02 Subcontractor Quality Control Programs

* 1. In the event a Subcontractor has a Quality Control Program, the Subcontractor Quality Control (QC) Program shall provide, at a minimum, the requirements set forth in this specification, tailored to the Subcontractor scope of work. The only point of contact for the Engineer is the Prime Contractor. Therefore, the Responsible Person-in-Charge (RPC shall be on-site during any subcontractor work.

111.03 DEFINITIONS GENERAL

* 1. The definitions given herein shall not be construed to modify the definitions given in Section 101, “Definitions and Terms,” unless specifically stated:
		1. Authorized Materials List: A list generated by the Engineer containing materials “Authorized” for incorporation into the work. Contractor may select materials from this list for submittal by using only the product name and manufacturer. The period of Authorization is indefinite, contingent upon continued execution, by the Material Source, of the Quality Control Program that has been approved by the Contracting Agency.
		2. Control Measures: All actions taken to ensure that materials are in compliance with specifications, including but not limited to submittal, testing, inspection, documentation, quantifying for testing and payment, As-Built drawings, and material tracking. The Contractor shall perform independent Control Measures from the Engineer's Quality Assurance to ensure that all elements of the project are within specifications.
		3. Inspection: A control measure utilizing visual and manualmethods shall be used to determine the quality of workmanship, material**,** or finished product. Inspections shall determine if all verifiable parts, practices, and products are in compliance with the Contract Documents. All inspections shall be documented, and any deviations from Contract Documents shall be noted therein.
		4. IQAC Materials List: A source list generated by the Interagency Quality Assurance Committee (IQAC), which contains materials requiring an abbreviated submittal prior to incorporation into the work. The period of Qualification will typically be one year or as indicated on the IQAC. Materials on the IQAC list that are removed by IQAC before or during a project shall not be incorporated into the work. This does not eliminate the testing that is to be performed at the project site or of that to a non-authorized source.
		5. Lot: One day’s production, regardless of quantity produced. One day’s production shall be considered as one continuous production run within one working day shift by the Source or Contractor from which the finished product was produced.
			1. Examples of a Lot are as follows:
				1. One “heat” or one continuous pouring from a caldron for reinforcing steel.
				2. One day’s production of a particular mix design of Asphalt Concrete regardless of tonnage quantity.
				3. One “batch” of Portland Cement or Asphalt Cement (binder).
				4. One day’s production of a particular mix design of Portland Cement Concrete.
			2. Lots may be composed of several sub-lots as provided by specification.
		6. Qualified Source: A Source that has been tested by the Contractor and approved for acceptance by the Engineer.
		7. Oversight: The Contractor’s supervisory personnel shall perform all daily, supervisory oversight, and normal worker performance verification checks during production of the work. Oversight shall be documented.
		8. Pre-Activity Meeting: A meeting to coordinate the quality control, quality assurance, and work planning for a specific activity prior to its start. This formal meeting shall resolve all outstanding issues regarding submittals, inspection, testing requirements, elevation controls, safety, and work plan.
		9. Quality Assurance (QA): Quality Assurance shall be all Control measures taken by the Engineer to verify that the Contractor Quality Control measures, materials, and workmanship comply with Contract Documents.
		10. Independent Assurance (IA): Independent Assurance verifies that Engineer's and Contractor's Quality Assurance and Quality Control measures comply with the Contracting Agency procedures and Contract Documents.
		11. Quality Control (QC): Quality Control shall be all measures taken by the Contractor to ensure that materials and workmanship are in compliance with the specification.
		12. Testable Quantity: The amount of work, material, or construction shall be quantified by the units used for the determination of testing frequency. Testing units and payment units may be different. For the purposes of this document all quantities shall be testable quantities.
		13. Source: Material manufacturing locations outside of or within the project limits. Locations outside of the limits are named “Off-Site Sources”; while within the project limits are named “On-Site Sources."
		14. Submittal: A submittal is a document that is transmitted to the Engineer in order to seek approval of a material or procedure, or as indicated in the contract documents.

111.04 SCOPE

* 1. This section establishes the specifications and references detailing the Contracting Agency Quality Assurance program and defining policies, elements, activities, and guidelines to ensure that the materials and workmanship in all construction projects conform reliably to the requirements for the approved plans and specifications. It has been developed in conformance with the criteria contained in Federal Regulation 23 CFR 637B*, Quality Assurance Procedures for Construction*.
	2. The Quality Assurance Program represents the Contracting Agency’s recognition of its responsibility and commitment to ensure a high level of confidence in the materials, material sources, field and laboratory test results reported by Quality Control laboratories, and field testing personnel performing testing activities on projects. The Contractor is expected to be familiar with all aspects of the testing, technician training, and Laboratory Qualification Program relating to their duties.

111.05 OVERVIEW

* 1. Federal Regulation 23 CFR 637B allows the traditional approach of Contracting Agency performed Quality Assurance sampling and testing for acceptance and the option of using material source or Contractor Quality Control sampling and testing results for acceptance, provided adequate verification is in place. In conformance with these regulations, the Contracting Agency Quality Assurance Program was created implementing a schedule of activities to cover construction installation, laboratory operations, testing personnel competency, source production inspection, and Material Source Quality Program with the goal of using the Contractor data for verified acceptance. The Quality Assurance program provides for four areas of assurance:
		1. Area 1: Qualifying laboratories and testing personnel.
			1. This ensures that technical personnel are capable of performing the tests properly and that the applicable testing qualifications have been met. This level also ensures that testing laboratories are properly accredited.
		2. Area 2: Independent Assurance Program (IA).
			1. This ensures that the QA and QC functions of the program conform to their respective Quality special provision sections and 23 CFR 637B. Additionally, the IA is responsible for the verification of the qualification/certification of testing personnel along with accreditation of laboratories used in the Quality Control/Quality Assurance Programs.
		3. Area 3: Material Source Quality Program.
			1. Option 1: Qualified Source - This ensures the quality of the material through acceptance sampling and testing performed by the contractor.
			2. Option 2: Authorized Source - This level ensures the quality of the materialthrough inspection and verification of the material source QC Plan and its application and/or inspection of the source facility itself by the Engineer. The Contractor performs Quality Control testing of materials placed from the Authorized Source at the project location. For **federally funded** projects, there are no Authorized Material Sources. The Contractor is required to test the material source as per Table I, Appendix X. If there is no test or frequency in Table A refer to applicable requirements in the USS.
		4. Area 4: Construction Inspection and Testing Program.
			1. Ensures the workmanship of materials incorporated into the project through testing by Contractor QC with Quality Assurance and inspection by the Engineer.
			2. The Quality Program allows for the use of QA validated Quality Control (QC) test results as part of the acceptance decision. The program also allows for the use of test results obtained by outside agencies and laboratories in the acceptance decision provided they meet the following:
				1. Qualified personnel through qualified laboratories have performed the sampling and testing.
				2. The quality of the material has been validated by verification sampling and testing.
				3. The appropriate Quality Assurance Auditing activities have been conducted in a satisfactory manner.

111.06 QC RESPONSIBILITY

* 1. The Contractor has the responsibility for the quality of all material properties and workmanship. This specification is intended to quantify the minimum requirements for acceptance of materials and establish a minimum standard for the control of quality within a project. The Contractor shall use this specification, as a minimum, for the basis of their Quality Control.
	2. The Contractor’s Quality Control shall provide evidence that all items have been submitted, tested, inspected, and accepted. Further, the Contractor shall track the usage of all materials on the project. The Contractor shall document each of these aspects independently as required herein regardless of testing, Quality Control measures, and/or Quality Assurance measures historically performed by any agency. Any testing, Quality Control measures, or Quality Assurance measures, which are performed by an agency, will not be considered as part of the Organization’s Quality Control. Compliance with the frequency of testing and Quality Control measures required in this specification shall be independent of any compliance measures taken by any agency.
	3. The Contractor is required to measure and reach agreement on “testable quantities” with the Engineer daily. “Partial” quantities and “Completed” quantities for payment purposes only, shall be agreed upon by both parties, and shall not include in part or in whole any materials which will require subsequent testing prior to acceptance.
	4. Control of Subcontractors: The Contractor has responsibility for all Quality Control Measures required for all subcontractors.
	5. Control of Material Sources: Materials produced at a Source, shall have Quality Control Measures performed by the Contractor in accordance with the Contractor’s Quality Control.
	6. Control of Elevation and Grade: The Contractor is responsible for the proper material placement for vertical and horizontal control after the Engineer has established the initial controls as indicated in the contract.

111.07 ACCEPTANCE

* 1. The Engineer will provide Quality Assurance for the verification of the Contractor Quality Control for the acceptance of the construction materials and installation.
	2. The Engineer verification may be performed on a reduced frequency.
	3. The acceptance is also based upon the program compliance and is subject to the demerits listed in section 105.71), “Payment for Contractor Quality Control Program.”

111.08 CONTRACTOR CONTRACT ADMINISTRATION – GENERAL

A. The Contractor may have internal administration of the contract that is not contained in this section. This section only specifies those contract document processes that are submitted to the Engineer for Quality Control Purposes.

111.09 ORGANIZATION – GENERAL

A. The minimum organization staffing and qualifications are described in Section 113, "Contractor Quality Control Organization and Qualification of Laboratories and Technicians” The Contractor shall submit for approval by the Engineer an organization chart indicating the position numbers and the persons responsible.

END OF SECTION 111