conform to M 181. Type I fabric shall conform to Class D coating. Vinyl coated steel shall conform to F 668, Class 2B thermally fused. Vinyl color shall be warm gray or black as specified in the Contract Documents.

914.01.01 Fence Fabric for Super Silt Fence. Galvanized fabric for super silt fence shall conform to 914.01, except that it shall be woven from No. 9 gauge wire having a Class C coating. The mesh shall be 42 in. in height.

914.02 TIE WIRES, LINE POST CLIPS, TENSION WIRES, AND TENSION WIRE CLIPS. These items shall conform to M 181. The galvanized coating shall have a minimum weight of 1.2 oz/ft^2. These items, when used with aluminum coated steel fabric, shall be coated with aluminum at a minimum weight of 0.40 oz/ft^2. The tension wire used with polyvinyl chloride (PVC) coated steel fabric shall have the same coating thickness and color requirements as the fence fabric.

914.03 POSTS, BRACES, FITTINGS, AND HARDWARE. All posts, braces, fittings, and hardware shall conform to M 181. When these items are specified to be PVC coated, they shall be thermally fused and bonded. The PVC thickness shall be 10 to 15 mil except that bolts, nuts, and washers shall be metallic coated steel.

When opting to use round posts, the posts shall conform to industry standards for Class 1 or 2.

914.04 GATES. The fabric used for gates shall be identical to the fencing fabric. The gate frame and other hardware shall conform to 914.02 and 914.03. When the gate frame is PVC coated, movable fittings, such as hinges and latches, shall be field coated with a PVC coating specifically prepared for this purpose.

914.05 BARBED WIRE. Barbed wire shall conform to A 121. The barbed wire shall be 12-1/2 gauge with four point, round barbs at 5 in. spacings and Class 3 coating requirements.

SECTION 915 — PRODUCTION PLANTS

915.01 GENERAL. These specifications are applicable to all batching and proportioning plants.

915.01.01 Approval. The plant from which the Contractor proposes to obtain material shall be approved by the Regional Engineer before starting deliveries.

915.01.02 Lead Time. The Contractor shall notify the Regional Engineer at least two working days prior to the start of operations. The Regional Engineer or his representative shall be kept informed of plant operational procedures and notified when a change is planned. Inspectors shall have safe access to all areas of the plant for the performance of their duties. All equipment, tools, machinery, and parts of the plant shall be maintained in a satisfactory working condition at all times.

915.01.03 Storage. The storage and handling of aggregates in stockpiles and bins shall be done in a manner that will prevent segregation, intermingling, and contamination by foreign material or equipment. Bins discharging to feeder systems shall be equipped with accessible calibrated devices to vary the quantity of material being fed.

915.01.04 Measuring Devices. Measuring devices shall conform to the current edition of the National Institute of Standards and Technology Handbook 44, except as modified by Table 915. The producer shall be responsible for providing all personnel and equipment for calibrating measuring devices.

Before any proportioning plant starts operation, and at least once each year thereafter, all measuring devices, meters, dispensers, test weights, and other measuring devices shall be inspected, tested, and certified to be in proper operating condition by competent testing agencies approved by the Engineer. During the period of operation, all measuring devices, meters, dispensers, and other measuring devices shall be tested monthly and certified for accuracy and operating condition by the producer or an approved testing agency. Any weighing device by which materials are sold by weight as a basis of payment shall be tested monthly and certified by an approved testing agency. The Engineer shall be notified at least two working days in advance of monthly scale inspections. The certifications shall state capacities, minimum graduations, loads applied, degree of accuracy, and magnitude.

Balance and zero conditions of scales shall be checked daily, and at any other time requested by the Regional Engineer or his representative. The Engineer may, at any time, direct that any measuring device be tested by the producer or an outside agency if there is any doubt about the accuracy of the measuring device. Certificates of inspection shall be posted in a prominent place in the plant, and a copy shall be promptly submitted to the Engineer.

Production plant tolerances shall conform to the following table:

TABLE 915

MATERIAL	*MAINTENANCE TOLERANCE	UNIT OF MEASURE
Aggregate	0.2%	Weight
Portland Cement or Blended Hydraulic Cement of Ground Iron Blast Furnace Slag or Fly Ash	0.2%	Weight
Asphalt	0.2%	Weight or Volume
Water	1.5%	Weight or Volume
Additives	0.5%	Weight or Volume

* Maintenance tolerance shall be the specified percent of the total capacity of the scale or the smallest scale graduation, whichever is greater.

If during the monthly check, the measuring devices are found to deviate from the allowable tolerance, they shall be suspended from use until recalibrated to the Specification requirements. A price adjustment will apply to materials sold and accepted by weight that are supplied during the measuring device malfunction period when the malfunction resulted in an overpayment. The measuring device malfunction period is defined as the elapsed time between the two successive monthly checks.

915.01.05 Sampling Equipment. The producer shall provide all personnel and equipment for obtaining samples from the last practical point prior to combination with other ingredients or introduction into the mixer. Sampling of liquid binder from HMA plants shall be from a tap located at the last practical, safe point, between the binder control unit and the plant (refer to M 156 and D 140). Sampling shall conform to Tables 1 and 2 of the MSMT Manual. The sampling equipment shall have a minimum capacity of 30 lb and shall be positioned in a manner that will provide an accurate representation of the material being furnished. When the size of the sample is too large to be transported, approved sample splitting devices shall be available at the point of sampling that will split the sample to no more than twice the proper testing size.

915.01.06 Quality Control Laboratory. The producer shall provide at proportioning or batching plants an on-site Administration approved laboratory suitable for conducting the various tests required. An off site laboratory shall require approval of the Engineer. Continued approval of the laboratory and the testing personnel will be subject to periodic

inspection by the Administration. Any deficiencies shall be corrected to the satisfaction of the Engineer or the approval will be withdrawn.

915.02 HOT MIX ASPHALT (HMA) PLANTS. All plants shall conform to M 156, and be equipped with Automatic Batching and Recording of Batching, except as modified in 915.01 and the following:

(a) Dryer. The fuel used for drying aggregates shall be compatible with the plant manufacturer's recommendations.

(b) Hot Aggregate Bins. Existing plants shall be equipped with alarms. New plants shall conform to M 156.

(c) Mixer Unit for Batch Method. Minimum dry and wet mixing times shall be 5 seconds and 15 seconds, respectively.

(d) Truck scale weighing shall conform to the National Institute for Standards and Technology (NIST), except as follows:

(1) A written plant summary shall be kept by the producer showing the Contract number, truck identification (I.D.) number, type material being produced, the number of truck loads, and the total tons of mix.

(2) The producer shall supply a delivery ticket with the I.D. number, Contract number, date, truck I.D. number, time loaded, gross and tare weights, and net weight of the mix for each load. When requested by the Engineer, the temperature of the mix shall also be shown on the delivery ticket.

(e) Automatic Weighing and Printout. The producer shall use an approved plant automatic weighing and printing system. A printed delivery ticket for each load shall be provided with the cumulative total weighed into the truck, Contract number, time loaded, I.D. of the type of mix, and net weight of mix. When requested by the Engineer, the temperature of the mix shall also be shown on the delivery ticket. The temperature may be handwritten on the delivery ticket.

(f) Hauling Units. The mixture shall be transported to the work site in units previously cleaned of all foreign material and the contents of each load completely covered with suitable material of sufficient size to protect it from the weather. Each unit shall have convenient access from ground level to insert thermometers to determine mix temperature.

The inside surface of all hauling units shall be treated with an approved release agent that will not contaminate or alter the characteristics of the mixture. Petroleum derivatives shall not be used. Approval will be based on results from tests performed in conformance with MSMT 414.

(g) Drum mixer plants shall be calibrated in conformance with MSMT 453 and approved by the Engineer. A monitoring station for the purpose of controlling the entire operation shall be provided. If any part of this control system fails, an alternative control system approved by the Engineer may be used for a maximum of two working days.

The producer shall determine the moisture content of all aggregates in conformance with MSMT 251.

915.02.01 Certified Hot Mix Asphalt (HMA) Plant. The producer shall be responsible for quality control of plant operations to ensure that the material conforms to Specifications. The quality control process will be subject to unannounced periodic inspection by representatives of the Engineer when Administration projects are in progress. The plant's certified technician shall fully participate in the inspections.

Initial Inspection. Any plant initially setting up and starting production will be subject to a comprehensive inspection to determine whether the plant equipment and personnel conform to all applicable Specifications. The Administration will accept certification by a professional engineer registered in the State of Maryland that the plant facilities conform to all applicable Specifications; however, final acceptance will be determined by the Administration.

Responsibilities of the HMA Producer.

(a) Notification. The producer shall notify the Engineer one working day prior to producing materials for Administration projects.

(b) Quality Control. The minimum sampling and testing frequencies and criteria necessary for quality control of the HMA is the responsibility of the producer. The producer shall develop and use a quality control plan acceptable to the Engineer which addresses all elements necessary for quality control in the plant.

The producer shall conduct the minimum sampling and testing as specified in MSMT 730, Table 3. The producer shall perform any additional sampling and testing when directed by the

Engineer. The producer shall offer to the Engineer the opportunity to witness all sampling and testing.

(c) Reports. The producer's test results shall be furnished to the Engineer on documents approved by the Administration.

Responsibilities of the Administration.

(a) Verification Testing. The Administration will provide acceptance by conducting verification sampling and testing and Independent Assurance Sampling and Testing on quality control sampling and testing as follows:

The Engineer will conduct Acceptance Verification by directing the producer to obtain independent verification samples at any time and location during production or placement, by monitoring the required production control charts and the required quality control plan. Verification sampling and testing of asphalt mixtures will be in conformance with MSMT 730, Table 3. The Engineer's verification testing will be separate from the producer's testing.

The Engineer may take or request the producer to obtain test samples at any time to confirm the effectiveness of the activities of the plant and field quality control technicians. The Engineer may direct that production be suspended if proper sampling and testing procedures are not followed or if the producer is not following the approved quality control plan.

Acceptance will be given when the Engineer's verification test results conform to Specifications and are within two standard deviation (2S) of the quality control test results from the last verification visit. Also, all mixes produced since the last verification visit will be evaluated as specified in 504.04.02 to determine the pay factor based on the deviation from target values.

No acceptance will be given when the Engineer's verification test results do not conform to the Specifications or are outside the 2S limits of the quality control test results from the last verification visit. However, the Engineer may give acceptance outside these results depending on the outcome of any additional investigation. If the producer disagrees with the Engineer's decision, the dispute may be resolved as specified in (e) below. An investigation will be conducted to determine the cause of the differences. The plant will be closely monitored until the quality control process is satisfactory to the Engineer. If the Engineer determines that the

plant has a recurring problem with the quality control process, plant approval will be rescinded and the plant shall be recertified before Administration production is permitted.

(b) Recertification of HMA Plant. Documentation of corrective action shall be submitted to the Engineer by a professional engineer registered in the State of Maryland. When this documentation is approved by the Engineer, a comprehensive inspection will be conducted to recertify the HMA plant.

(c) Independent Assurance Audits (IAA). The Administration will evaluate the proficiency and equipment of QC/QA Technicians through audits performed on a random basis as outlined in the Quality Assurance Manual. The technician being audited shall cooperate with the IAA Technician in the evaluation of their proficiency and equipment.

(d) Technician Certification. Technician certification will be in conformance with MSMT 731.

(e) Dispute Resolution System. This is a general procedure to resolve conflicts resulting from discrepancies between test results from the Engineer and producer, and nontest related disputes of sufficient magnitude to impact payment.

When a dispute arises, the producer or Engineer will file a written complaint to the Chief Engineer describing the nature of the dispute along with the pertinent information. The Chief Engineer will appoint a panel of three members to resolve the conflict. The panel will include a member selected by the asphalt industry. The panel will make recommendations to the Chief Engineer. The Chief Engineer will decide the disposition of the dispute based on the panel's recommendations.

A written report from the panel describing all subsequent actions and final disposition of the dispute shall be included in the project records.

If subsequent disputes arises on the same issue, the written report will be included as a resource during the resolution process.

915.03 PORTLAND CEMENT CONCRETE PLANTS. Portland cement concrete plants shall conform to M 157 except as modified herein, including the applicable requirements of 915.01.

915.03.01 Storage of Aggregate. Coarse and fine aggregate for use in portland cement concrete shall be maintained at a uniform moisture

content in excess of its saturated surface dry condition. Water added for this purpose shall conform to 921.01.

915.03.02 Temperature of Water and Cement. The plant shall be equipped with methods of heating or cooling the mix as approved by the Engineer. The temperature of the plastic concrete shall conform to 902.10.03. The temperature of the cementitious materials and the mixing water at the time they are to be used in the mix shall not exceed 170 F.

915.03.03 Load Tickets. The producer shall issue a completed Administration Form 116 in duplicate for each load. Distribution shall be made as specified in 915.03.05(c)(2). The producer's copy shall be readily available for inspection upon request by the Regional Engineer or his representative. Computer generated printouts may be used in lieu of the Administration's Load Ticket when approved by the Regional Engineer.

915.03.04 Mixers and Agitators. The requirements for mixers and agitators and for mixing and delivery of ready mixed concrete shall conform to M 157 with the following exceptions:

(a) During transit, drums shall be operated at agitating speed only. Mixing during transit is prohibited.

(1) At least 85 percent of design water requirement shall be added at the plant through the certified plant water meter.

(2) Water for slump adjustment may be added at the plant through the Administration approved truck water system under the supervision of the certified concrete technician, provided the maximum specified water/cement ratio is not exceeded.

(3) A maximum of 3 gal of water per cubic yard of concrete may be added at the job site provided the maximum specified water/cement ratio is not exceeded.

(4) No water shall be added after partial discharge of the load.

(b) No mixer or agitator containing wash water in the drum shall be loaded.

(c) When the concrete is specified or permitted to be made by volumetric batching and continuous mixing, the batching and mixing unit shall conform to C 685. Calibration shall conform to MSMT 558.

Where no mixer performance tests are made for stationary mixers, the minimum mixing time shall be 75 seconds.

915.03.05 Certified Concrete Plant. The producer shall be responsible for quality control of plant operations to ensure that the material conforms to Specification requirements. The quality control process will be subject to unannounced periodic inspection by representatives of the Regional Engineer. Full participation in the inspection by the plant's certified technician will be required.

Initial Inspection. Any plant initially setting up and starting production will be subject to a comprehensive inspection to determine whether the plant equipment and personnel conform to all applicable Specification requirements. The Administration will accept certification by a professional engineer registered in the State of Maryland that the plant facilities conform to all applicable Specification requirements. However, final acceptance will be determined by the Administration.

Responsibilities of the Concrete Producer.

(a) The producer shall notify the Regional Engineer one working day prior to producing materials for Administration projects.

(b) Quality Control. All producers supplying concrete shall have the certified concrete plant technician present while concrete is being batched and delivered to the project. This technician shall supervise concrete production.

(1) The producer shall develop and use a Quality Control Plan acceptable to the Engineer that addresses all elements necessary for quality control in the plants.

(2) Control tests shall be performed by the certified concrete plant technician. This technician shall perform moisture tests, adjust proportions of aggregate for free moisture, complete and sign batch or approved delivery tickets, and ensure quality control of the batching operations.

(3) Technician certification will be awarded upon satisfactory completion of examinations administered by the Administration in conformance with MSMT 560.

(4) The producer shall supply all necessary test equipment.

(5) Sample frequency shall conform to the MSMT Frequency Guide, Table 1.

(c) Reports. The following reports will be processed by the producer:

(1) Administration Form 113, daily, stating that the material was sampled and tested in conformance with the Administration's sampling and testing guidelines and complies with the applicable Specifications. Distribution to producer's file and Regional Laboratory.

(2) Administration Form 116, for each load. Distribution to project and producer's file.

(3) Administration Forms for all concrete materials sampled at the plant in conformance with MSMT Frequency Guide Table 1.

(4) Test Worksheet, daily - for all tests performed at the plant.

Responsibilities of the Administration.

(a) Comprehensive Inspection.

(b) Acceptance Inspection and Testing.

(1) If deficiencies are found during an Administration inspection, the producer will be notified immediately to correct the deficiencies to the satisfaction of the Engineer. Production will be suspended for critical deficiencies.

(2) If consecutive inspections reveal identical deficiencies, or if additional deficiencies are found, the producer will be notified that a reinspection will be held in two production days. All deficiencies shall be corrected by the reinspection date.

(3) If reinspection fails, the Regional Engineer will assign an Inspector to monitor plant operations for a maximum of five Administration production days. If at the end of this period the quality control process is not satisfactory, plant approval will be rescinded and the plant shall be recertified before Administration production will be continued.

(4) Recertification of Concrete Plant. Documentation of corrective action shall be submitted to the Regional Engineer by a professional engineer registered in the State of Maryland. When this documentation is approved by the

Engineer, a comprehensive inspection will be conducted to recertify the concrete plant.

(c) Independent Assurance Audits (IAA). The Administration will evaluate the proficiency and equipment of QC/QA Technicians through audits performed on a random basis as outlined in the Quality Assurance Manual. The Technician being audited shall cooperate with the IAA Technician in the evaluation of their proficiency and equipment.

(d) Technician Certification in conformance with MSMT 560.

915.04 BASE COURSE PLANTS.

915.04.01 Nonstabilized. Base course plants producing graded aggregate base material without a stabilizing agent shall conform to 915.01, 915.04.03, and the following:

(a) The material is produced in a processing plant using an approved aggregate source.

(b) The Quality Control Plan shall be submitted to and approved by the Regional Engineer prior to production.

(c) The production shall conform to the gradation requirements of the approved job mix formula.

(d) The required moisture content shall be maintained prior to shipment.

(e) Stockpiles shall be maintained to prevent segregation.

(f) Frozen aggregates shall not be used.

(g) Mixed material shall be handled and transported in a manner that will minimize segregation and the loss of moisture. All loads shall be covered in conformance with State laws unless hauling is off road and approved by the Engineer.

915.04.02 Stabilized. Stabilized base course plants shall conform to 915.01, 915.04.03, and the following:

Mechanical mixers shall be used, as approved by the Engineer. All plants shall be equipped with automatic cutoff devices interlocked so the plant will stop operating if delivery of any component of the mix fails.

The amount of stabilization shall be determined in conformance with MSMT 254.

The charge in a batch mixer, or rate of feed to a continuous mixer, shall not exceed that which will permit complete mixing of all materials.

Mixed materials shall be handled and transported in a manner that will minimize segregation and loss of moisture or volatiles. All loads shall be covered in conformance with State laws unless hauling is off road and approved by the Engineer.

When cement is used as a stabilizing agent, the amount of water added at the plant shall be controlled to obtain a uniform mixture that conforms to the required density.

When emulsified asphalt is used as a stabilizing agent, all aggregate shall contain moisture in excess of the saturated surface dry condition at time of mixing.

915.04.03 Certification of Base Course Plants. The quality control and condition of all materials used in base courses, as well as all necessary adjustments required in using the materials, shall be the responsibility of the base course producer. The quality assurance process will be subject to unannounced periodic inspection by representatives of the Regional Engineer when Administration projects are in progress. The plant's certified technician shall participate in the inspection.

Inspection. Any plant initially setting up and starting production will be subject to a comprehensive inspection to determine whether the plant equipment and personnel conform to all applicable Specification requirements. After the initial inspection the plant shall conform to 915.01.04. The Administration will accept certification by a professional engineer registered in the State of Maryland that the plant facilities conform to all applicable Specification requirements. However, final acceptance will be determined by the Administration.

Responsibilities of the Base Course Producer.

(a) The producer shall notify the Regional Engineer one working day prior to producing materials for Administration projects.

(b) Quality Control. The producer shall be responsible for quality control of plant operations to ensure that the material conforms to Specification requirements. All producers supplying base courses shall have a certified base course plant technician present while base course material is being plant mixed and delivered to the project. This technician shall supervise base course production.

(1) Control tests shall be performed by a certified base course plant technician. This technician shall obtain samples and test in conformance with MSMT Frequency Guide Table 1 and 2.

(2) Technician certification will be awarded upon satisfactory completion of an examination given by the Administration in conformance with MSMT 562. The certification shall be as follows:

Applications for certification shall be obtained from the Regional Engineer a minimum of 30 days prior to producing material for the Administration.

The Regional Engineer will contact the producer and schedule an examination based on AASHTO and MSMT procedures and knowledge of the Administration's base course plant reports and documentation.

Upon satisfactory completion of the examination, a certificate will be issued.

(3) The producer shall supply all necessary test equipment. In addition, the producer shall provide on-site facilities suitable for conducting the required tests. Off-site test facilities shall require approval of the Regional Engineer.

(c) Reports. The following reports shall be processed by the producer:

(1) MD SHA Form 43, daily, stating that the material was sampled and tested in conformance with the Administration's sampling and testing guidelines and conforms to the applicable Specifications. Distribution to Regional Laboratory and producer's file.

(2) MD SHA Form 88, for all additives introduced at the plant, frequency in conformance with Table 2. Distribution to Regional Laboratory and producer's file.

(3) Daily Plant Certification Form showing that a technician was on duty at the plant. Distribution to project and producer's file.

(4) Test Worksheet, daily - for all tests performed at the plant.

(5) Base course plant checklist daily. Distribution to producer's file.

Responsibilities of the Administration.

(a) Comprehensive Inspection.

(b) Acceptance Inspection and Testing.

(1) If deficiencies are found, as defined in the base course plant checklist during an acceptance inspection, the producer will be notified immediately and operations shall be suspended if corrections are not made to the satisfaction of the Engineer.

(2) If on consecutive inspections identical deficiencies are found, the producer will be notified that a re-inspection will be held in two Administration production days. All deficiencies shall be corrected by the re-inspection date. The Regional Engineer will determine whether plant certification will be revoked.

(c) Independent Assurance Audits (IAA). The Administration will evaluate the proficiency and equipment of QC/QA Technicians through audits performed on a random basis as outlined in the Quality Assurance Manual. The technician being audited shall cooperate with the IAA Technician in the evaluation of their proficiency and equipment.

(d) Recertification of Aggregate Base Course Plant. Documentation of corrective action shall be submitted by a professional engineer registered in the State of Maryland. When this documentation is approved, a comprehensive inspection will be conducted to recertify the base course plant.

(e) Technician Certification in conformance with MSMT 562.

915.05 CERTIFIED PRECAST CONCRETE PLANTS. The producer shall be responsible for quality control plant operations to ensure that the material conforms to Specifications. The quality control process will be subject to unannounced periodic inspection by representatives of the Regional Engineer. The plant's certified technician shall fully participate in the inspections.

Initial Inspection. Any plant initially setting up and starting production will be subject to a comprehensive inspection to determine whether plant equipment and personnel conform to all applicable Specifications and that suitable testing facilities will be available. The Administration will

accept certification by a professional engineer registered in the State of Maryland that the plant facilities conform to all applicable Specifications; however, final acceptance will be determined by the Administration.

915.05.01 Responsibilities of the Precast Concrete Producer.

(a) Notification. The producer shall notify the Engineer at least two working days prior to producing materials for Administration projects.

(b) Quality Control Procedures. Quality control procedures shall include the following:

(1) Sampling and testing in conformance with Tables 1, 2, and 3 of the MSMT Sample Frequency Guide.

(2) The method of inspecting reinforcement steel placement and forms prior to pouring concrete.

(3) The method of curing the concrete.

(4) The method of maintaining accurate quality control records.

(5) Samples of documents approved by the Engineer.

(6) Patching procedures.

(7) Methods of preparing the concrete units for shipment.

(8) A method of identifying each piece as tested and approved by quality control.

(c) Quality Control Plan. The producer shall submit a Quality Control Plan prior to the start of production. The plan shall indicate the following:

(1) All precast concrete products shall conform to the Standards or approved working drawings. All materials shall be from an Administration approved source and shall conform to all applicable Specifications.

(2) The plan shall indicate how the producer intends to handle all of its materials. Certification of materials shall be as specified in the MSMT Sample Frequency Guide.

(3) The names, qualifications, and responsibilities of a Quality Control Manager and a Quality Control Technician.

(d) Quality Control Technician. The Quality Control Technician may be approved if certified from at least one of the following:

(1) The National Precast Concrete Association.

(2) The Precast/Prestressed Concrete Institute Plant Certification Program.

(3) American Concrete Institute.

(4) Taking the Maryland Certified Concrete Technician course given by the Administration and passing the test.

(e) Test Equipment and Facilities. The producer shall supply all necessary test equipment. In addition, the producer shall provide Administration approved facilities suitable for conducting the various tests required. Off site test facilities shall require approval of the Engineer.

915.05.02 Responsibilities of the Administration.

(a) Comprehensive Inspection.

(b) Verification Testing.

(1) Verification of certification will be performed at the discretion of the Administration a minimum of once per year.

(2) The Administration reserves the right to discontinue acceptance of precast units if its verification indicates that materials or test procedures do not conform to the Contract Documents.

SECTION 916 — SOIL AND SOIL-AGGREGATE BORROW

916.01 BORROW EXCAVATION. All borrow excavation shall be a soil or soil aggregate mixture and shall conform to the following:

Maximum dry density and optimum moisture content of the material shall be determined as specified in T 180, Method C unless the material has more than 35 percent retained on the No. 4 sieve, in which case Method D shall be used. Material with a maximum dry density of less than 100 lb/ft^3 is unsatisfactory and shall not be used in embankments