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-- End of Section Table of Contents --
PART 1   GENERAL

1.1 UNIT PRICES

NOTE: These paragraphs will be deleted when lump sum payment is desired. When payment basis is square meters yards only, delete inapplicable paragraphs.

1.1.1 Measurement for Payment

1.1.1.1 Bituminous Stabilization

Measurement will be by the square meter yard of work completed and accepted.
1.1.2 Bituminous Material

Submit quantity of bituminous material used in the job. Bituminous material to be paid for will be measured in the number of [liters gallons of the material used in the accepted work, corrected to liters at 15 degrees C gallons at 60 degrees F in accordance with [ASTM D1250]. Use a coefficient of 0.00025 per degree C F for asphalt emulsion.] [metric 2000 pound tons of the material used in the accepted work.]

1.1.3 Select Material

**************************************************************************
NOTE: Reference to select material will be deleted when select material is not required from borrow areas.
**************************************************************************

Select material will be measured by the [cubic meter yard] [metric 2000 pound ton] of material placed and used in the completed and accepted stabilization. Measurement will not be made for select material that is wasted or used in work determined to be defective.

1.2 Basis for Payment

**************************************************************************
NOTE: Reference to select material will be deleted when select material is not required from borrow areas.
**************************************************************************

The last sentence in brackets will be deleted if sanding or dusting of the bituminous-primed surfaces is not required or if bituminous-primed surfaces are to receive bituminous surfacing under the contract.

**************************************************************************

Bituminous stabilization, constructed and accepted, [and the quantities of bituminous material] [and select material] will be paid for at the respective contract unit prices. Payment will not be made for any material wasted, used for the convenience of the Contractor, unused or rejected, or for water used. [Select material obtained from grading and excavation operations at the project site will not be paid for under this section but will be included for payment under other sections specifying grading and excavating.] [Separate payment will not be made for sanding or dusting the bituminous prime-coated surfaces. Costs for sanding or dusting will be included in the contract unit price for bituminous material.]

1.3 Waybills and Delivery Tickets

Submit copies of waybills or delivery tickets during the progress of the work. Before the final payment is allowed, furnish waybills and certified delivery tickets for all bituminous materials [and select materials] actually used in the construction.

1.2 REFERENCES

**************************************************************************
NOTE: This paragraph is used to list the
publications cited in the text of the guide specification. The publications are referred to in the text by basic designation only and listed in this paragraph by organization, designation, date, and title.

Use the Reference Wizard's Check Reference feature when you add a Reference Identifier (RID) outside of the Section's Reference Article to automatically place the reference in the Reference Article. Also use the Reference Wizard's Check Reference feature to update the issue dates.

References not used in the text will automatically be deleted from this section of the project specification when you choose to reconcile references in the publish print process.

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

**AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO)**


AASHTO M 82 (2017) Standard Specification for Cutback Asphalt (Medium-Curing Type)

AASHTO T 40 (2002; R 2006) Sampling Bituminous Materials

AASHTO T 193 (2013; R 2017) Standard Method of Test for The California Bearing Ratio

**ASTM INTERNATIONAL (ASTM)**


1.3 DEFINITION

Degree of compaction is expressed as a percentage of the maximum density obtained by the test procedure in accordance with ASTM D1557, abbreviated in this specification as percent laboratory maximum density.

1.4 SUBMITTALS

*****************************************************************************************************************************
NOTE: Review submittal description (SD) definitions in Section 01 33 00 SUBMITTAL PROCEDURES and edit the following list to reflect only the submittals required for the project.

The Guide Specification technical editors have designated those items that require Government approval, due to their complexity or criticality, with a "G." Generally, other submittal items can be reviewed by the Contractor's Quality Control System. Only add a "G" to an item, if the submittal is sufficiently important or complex in context of the project.

For submittals requiring Government approval on Army projects, a code of up to three characters within
the submittal tags may be used following the "G" designation to indicate the approving authority. Codes for Army projects using the Resident Management System (RMS) are: "AE" for Architect-Engineer; "DO" for District Office (Engineering Division or other organization in the District Office); "AO" for Area Office; "RO" for Resident Office; and "PO" for Project Office. Codes following the "G" typically are not used for Navy, Air Force, and NASA projects.

The "S" following a submittal item indicates that the submittal is required for the Sustainability eNotebook to fulfill federally mandated sustainable requirements in accordance with Section 01 33 29 SUSTAINABILITY REPORTING. Locate the "S" submittal under the SD number that best describes the submittal item.

Choose the first bracketed item for Navy, Air Force and NASA projects, or choose the second bracketed item for Army projects.

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for [Contractor Quality Control approval.] [information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government.] Submittals with an "S" are for inclusion in the Sustainability eNotebook, in conformance to Section 01 33 29 SUSTAINABILITY REPORTING. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-03 Product Data

- Plant, Equipment, Machines, and Tools
- Mix Design; G[, [_____]]
- Notification of the Selected Source
- Operation of Aggregate Sources
- Waybills and Delivery Tickets

SD-04 Samples

- Bituminous Material

SD-06 Test Reports

- Sampling and Testing

1.5 ENVIRONMENTAL REQUIREMENTS

Do not apply bituminous material when the atmospheric temperature is less than 10 degrees C 50 degrees F or to soils that are frozen or contain frost. If the temperature falls below 2 degrees C 35 degrees F, protect completed bitumen-treated areas against any detrimental effects of freezing.
PART 2 PRODUCTS

2.1 EQUIPMENT

2.1.1 Plant, Equipment, Machines, and Tools

Submit list of proposed equipment to be used in performance of construction work, including descriptive data. Plant, equipment, machines, and tools used in the work are subject to approval and must be maintained in a satisfactory working condition at all times. Provide equipment with the capability of producing the required compaction, meeting grade controls, thickness control and smoothness requirements indicated.

2.1.1.1 Bituminous Distributor

Provide distributor with pneumatic tires that prevent rutting, shoving, or otherwise damaging base surface or other layers in the pavement structure. Distributor shall be designed and equipped to spray bituminous material in a uniform double or triple lap at the specified temperature, at variable widths, and at readily determined and controlled rates from 0.15 to 6.5 L/square meter 0.05 to 2.0 gallons/square yard with an allowable variation from the specified rate of plus or minus 5 percent and with a pressure range of 175 to 515 kPa 25 to 75 psi. Include with distributor equipment a separate power unit for the bitumen pump, full-circulation spray bars, tachometer, pressure gauges, volume-measuring devices, adequate heaters for heating of materials to the proper application temperature, a thermometer for reading temperature of tank contents, and a hand hose attachment suitable for applying bituminous material manually to areas inaccessible to the distributor. Distributor shall be equipped to circulate and agitate the bituminous material during the heating process.

2.1.1.2 Straightedge

Furnish and maintain at the site, in good condition, one [3.05] [3.66] meter [10] [12] foot straightedge for each bituminous paver, for use in the testing of the finished surface. Make straightedge available for government use. Construct straightedges of aluminum or other lightweight metal having blades of box or box-girder cross section with flat bottom reinforced to insure rigidity and accuracy. Straightedges shall have handles to facilitate movement on pavement.

2.2 MATERIALS

Submit notification of the selected source of bituminous material and aggregate sources to the Contracting Officer within 15 days after the award of contract.

2.2.1 Bituminous Material

**************************************************************************
NOTE: Specify only one grade of asphalt.
**************************************************************************

Material used for bituminous seal, in the soil-bitumen mixture, and for prime coat shall be the same grade throughout and shall conform to one of the following:
2.2.1.1 Liquid Asphalt

[ASTM D2027/D2027M] [ASTM D2028/D2028M] [ASTM D2026/D2026M] [AASHTO M 81] [AASHTO M 82] Grade [RC-70] [RC-250] [RC-800] [MC-70] [MC-250] [MC-800] [MC-3000] [SC-250] [SC-800].

2.2.1.2 Emulsified Asphalt

ASTM D977 Type [SS-1] [MS-2].

2.2.2 Material to be Stabilized

**************************************************************************

NOTE: Inapplicable material will be deleted. A select material gradation based on sound engineering judgment, availability of materials, economics, history of construction in the area, and type of course to be constructed should be supplied in this paragraph. Maximum size of stones should be less than 1/3 the compacted thickness of the treated soil layer. Maximum percent passing the 0.075 mm No. 200 sieve) should be 30. Designer should refer to UFC 3-250-11 and UFC 3-260-01 for further information, including applicability of bituminous stabilization.

**************************************************************************

Material to be stabilized shall consist of [in-place material] [approved select material]. Select material shall conform to the following gradation:

<table>
<thead>
<tr>
<th>Sieve Designation</th>
<th>Percentage by Weight Passing Square-Mesh Sieve</th>
</tr>
</thead>
<tbody>
<tr>
<td>75 mm 3 inch</td>
<td>[_____]</td>
</tr>
<tr>
<td>[_____]</td>
<td>[_____]</td>
</tr>
</tbody>
</table>

The liquid limit must be less than 40 and the plasticity index less than 10 when tested in accordance with ASTM D4318. The fine and coarse aggregates, or a composite mixture, must not show stripping in excess of 5 percent. If stripping occurs, [reject the aggregate] [use an approved method of treating to prevent stripping].

2.2.3 Stockpiling Materials

**************************************************************************

NOTE: This paragraph will be deleted when select material is not required or when small quantities do not justify the inclusion of select materials.

**************************************************************************

Stockpile select material, including approved material available from excavation and grading in the manner and at the locations designated. Before stockpiling material, the storage sites shall be cleared, drained, and leveled. Stockpile separately materials obtained from different sources.
2.2.4 Water

Furnish clean, fresh, and potable water.

2.3 MIX DESIGN

**************************************************************************
NOTE: CBR bearing value can vary from 35 to 80, depending on soil type; see UFC 3-250-11.
**************************************************************************

Develop and submit for approval a proposed mix design prior to stabilization work. Develop mix using samples of the material to be stabilized. Mix design shall be capable of producing a CBR bearing value of [50] [_____] CBR in accordance with [ASTM D1883] [AASHTO T 193].

PART 3 EXECUTION

3.1 BITUMINOUS MATERIAL MIX

**************************************************************************
NOTE: The designer is reminded that in-situ materials to be stabilized with bituminous material must conform to the requirements of UFC 3-250-11. Application temperatures will be selected from the following table and inserted in the blanks:

<table>
<thead>
<tr>
<th>Asphalt Type</th>
<th>Temperature Degrees (°C)</th>
<th>Temperature Degrees (°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cutback asphalt</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RC-70, MC-70</td>
<td>40-8105-180</td>
<td></td>
</tr>
<tr>
<td>RC-250, MC-250, SC-250</td>
<td>60-105145-220</td>
<td></td>
</tr>
<tr>
<td>RC-800, MC-800, SC-800</td>
<td>80-125180-255</td>
<td></td>
</tr>
<tr>
<td>MC-3000</td>
<td>100-145215-290</td>
<td></td>
</tr>
<tr>
<td>Emulsified asphalt</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SS-1</td>
<td>25-5575-130</td>
<td></td>
</tr>
<tr>
<td>MS-2</td>
<td>20-70100-160</td>
<td></td>
</tr>
</tbody>
</table>

The moisture to be specified will be a function of the type of bituminous material used. The value will be selected from the following:

a. Liquid asphalt: 2 percent

b. Emulsified asphalt (including water in the emulsion):
3.1 OPERATION OF AGGREGATE SOURCES

Bituminous material, of the amount required for each application, shall be uniformly applied by a bituminous distributor within a temperature range of [_____] to [_____] degrees C [_____] to [_____] degrees F, as directed. Properly treat areas inaccessible to or missed by the distributor with bituminous material, using the manually operated hose attachment. After mixing is completed, the proportions of the mixture shall be in accordance with the approved mix design. On the basis of dry weight, moisture shall be [_____] percent plus or minus 1 percent when mixing is complete. When the stabilized course is constructed in more than one layer, clean the previously constructed layer of loose and foreign matter by sweeping with power sweepers or power brooms, except that hand brooms may be used in areas where power cleaning is not practicable. Provide adequate drainage during the entire construction period to prevent water from collecting or standing on the area to be stabilized or on pulverized, mixed, or partially mixed material.

3.2 PREPARATION OF AREAS TO BE STABILIZED

Clean area of debris. Area will be inspected for adequate compaction and shall be capable of withstanding, without displacement, compaction specified for the soil-bitumen mixture. Debris and removed unsatisfactory in-place material shall be disposed of [as directed] [in waste disposal areas indicated].

3.3.1 In-Place Material to be Stabilized

Grade and shape the entire area to conform to the lines, grades, and cross sections shown prior to being processed. Make soft or yielding areas
stable before construction is begun.

3.3.2 In-Place Materials to Receive Stabilized Course

**************************************************************************
NOTE: Delete inapplicable subparagraph.
**************************************************************************

[Correct soft, yielding areas and ruts or other irregularities in the surface. Material in the affected areas shall be loosened and unsatisfactory material removed. Add approved select material where directed. The area shall then be shaped to line, grade, and cross section, and shall be compacted to the specified density.] [Subgrade shall conform to Section 31 00 00 EARTHWORK.] [Subbase course shall conform to Section 32 11 20 [BASE COURSE FOR RIGID][ AND ][SUBBASES FOR FLEXIBLE] PAVING.] Then seal entire surface with bituminous material applied as specified. The seal shall be covered with sand and rolled lightly with a steel-wheel or rubber-tired roller.

3.3.3 Select Material

**************************************************************************
NOTE: Delete paragraph if select material is not required.
**************************************************************************

Utilize sufficient select material to provide the required thickness of the soil-bitumen layer after compaction; process it to meet the requirements specified, before bituminous stabilization is undertaken.

3.4 GRADE CONTROL

Excavate underlying material to sufficient depth for the required stabilized-course thickness so that the finish stabilized course with the subsequent surface course will meet the fixed grade. Provide line and grade stakes as necessary for control. Place grade stakes in lines parallel to the centerline of the area under construction and suitably spaced for string lining. Finished and completed stabilized area shall conform to the lines, grades, cross section, and dimensions indicated.

3.5 MIXING OF MATERIALS

3.5.1 Mixed-in-Place Method

**************************************************************************
NOTE: Mixing the materials by the mixed-in-place method should be considered for those jobs where the thickness of the stabilized layer is 150 mm 6 inches or less. Because the maximum layer thickness is 150 mm 6 inches, constructing a thicker layer by this method would require removal of the top portion of material. The lower portion would then be mixed and compacted, and the top portion mixed, replaced and compacted. This paragraph should be deleted if select material is to be used.

Two different mixed-in-place methods are presented. One method of in-place mixing should be used and the appropriate paragraphs deleted.
3.5.1.1 Scarifying and Pulverizing of Soil

Prior to the application of bituminous materials, the soil shall be scarified and pulverized [to the depth shown] [to a depth of [_____] mm inches]. Control scarification so that the layer beneath the layer to be stabilized is not disturbed. Depth of pulverizing shall not exceed the depth of scarification. Unless otherwise permitted, area scarified and pulverized shall not exceed the area that can be completed in 2 working days.

3.5.1.2 Application of Water

Shape pulverized material to the cross section and grade indicated. Moisture content shall then be determined. Add water in increments and each increment of water shall be partially incorporated in the mix to avoid concentration of water near the surface. After the last increment of water has been added, continue mixing until the water is uniformly distributed throughout the mixture, including satisfactory moisture distribution along the edges of the section.

3.5.1.3 Application of Bituminous Material

Rate of application of bituminous material for the soil-bitumen mixture shall be sufficient to meet the mix design amount of bitumen. Bituminous material shall be uniformly mixed with the soil by means of a blade grader or rotary mixer. If the bituminous material is applied in more than one increment, partially mix each application into the material as directed. After the required amount of bituminous material has been added to the loose material, the bituminous material and soil shall be thoroughly mixed by blading with a blade grader, rotary mixer, or other equipment suitable for mixing the soil and bitumen. Equipment, except that used for spreading and mixing operations, shall not pass over the freshly spread bituminous material.

3.5.1.4 Traveling-Plant Method

Place the pulverized material in windrows of sufficient size to cover a predetermined width to the indicated compacted thickness. Traveling plant shall move at a uniform rate of speed and shall accomplish thorough mixing of the materials. Water and bituminous material may be delivered separately or together at a predetermined rate.

3.5.2 Central Plant Method

NOTE: Central plant will be specified for mixing select material for subbase or base course construction.

3.5.2.1 Mixing

Loading and hauling select material from pits or stockpiles shall result in a uniform grade of each material being delivered to the central-mixing plant. Feed properly batched or proportioned aggregate and soil binder materials into the mixing unit together with the bituminous material and the quantity of water needed to obtain the required optimum moisture.
content. Continue mixing until a homogeneous mixture is obtained. Haul mixture to the job in trucks equipped with protective covers. Place mixture with mechanical spreaders.

3.5.2.2 Placing

Place the mixed material on the prepared subgrade or subbase in layers of uniform thickness with an approved spreader. When a compacted layer 150 mm 6 inches or less in thickness is required, place the material in a single layer. When a compacted layer in excess of 150 mm 6 inches is required, place the material in layers of equal thickness. No layer shall exceed 150 mm 6 inches or be less than 80 mm 3 inches when compacted. When compacted, the layers shall be true to the grades or levels required with the least possible surface disturbance. Where the base course is placed in more than one layer, clean the previously constructed layers of loose and foreign matter by sweeping with power sweepers, power brooms, or hand brooms, as directed. Make such adjustments in placing procedures or equipment as may be directed to obtain true grades, to minimize segregation and degradation, to adjust the water content, and to ensure an acceptable base course.

3.6 PLACEMENT AND COMPACTION

**************************************************************************
NOTE: If central plant is not specified, the first sentence will be deleted. Density will be based on the material being stabilized. In addition, the correct compaction standard should be retained.
**************************************************************************

[For plant-mixed, machine laid materials, begin compaction immediately following placement.] [For mixed-in-place material, allow the soil-bitumen an adequate amount of time to cure. After curing, the mixture shall be shaped approximately to the specified lines and grades and thoroughly loosened to its full depth and width.] Begin rolling at the outside edge of the surface and proceed to the center, overlapping on successive trips at least one-half the width of the roller. Alternate trips of the roller shall be slightly different lengths. Displacement of materials shall not occur. Density of compacted mixture shall be at least [95] [_____] percent of laboratory maximum density. Areas inaccessible to rollers shall be compacted to the required density with mechanical tampers.

3.7 EDGES OF STABILIZED COURSE

For areas where plant-mixed stabilized material is placed in successive strips, 300 mm 1 foot of the material from the outside edge of the previously placed strip shall be removed prior to placing the adjacent strip. For the shoulders of the stabilized areas, place approved material along the edges of the stabilized course to compact to the thickness of the course being constructed, or to the thickness of each layer in a multiple-layer course. At minimum 300 mm 1 foot width of the shoulder or previously placed strip shall be rolled and compacted simultaneously with the rolling and compacting of each layer of the stabilized course, as directed.

3.8 FINISHING

Finish the surface of the top layer to grade and cross section shown. Finished surface shall be uniform texture. Light blading during rolling
may be necessary for the finished surface to conform to the lines, grades, and cross sections. If the surface becomes rough, corrugated, uneven in texture, or traffic-marked prior to completion, such unsatisfactory portion shall be scarified, reworked, relaid, or replaced as directed. If any portion of the course, when laid, becomes watersoaked for any reason, that portion shall be removed immediately, and the mix placed in a windrow and aerated until a moisture content within the limits specified is obtained; and then spread, shaped, and rolled as specified.

3.8.1 Smoothness

------------------------------------------------------------------------------------------------------------------
NOTE: For subgrade and subbase stabilization, this paragraph should be deleted.
------------------------------------------------------------------------------------------------------------------

The surface of each layer shall show no deviations in excess of 10 mm 3/8 inch when tested with the straightedge. Deviations exceeding this amount shall be corrected by removing material and replacing with new material, or by reworking existing material and compacting, as directed.

3.8.2 Thickness Control

------------------------------------------------------------------------------------------------------------------
NOTE: When subbase or base courses are constructed less than 150 mm 6 inches in total thickness, a deficiency of 13 mm 1/2 inch in thickness is considered excessive. Applicable to job conditions, the thickness tolerance provisions may be modified as required, restricting all deficiencies to not over 6 mm 1/4 inch.
------------------------------------------------------------------------------------------------------------------

Build the compacted thickness of the stabilized course within 13 mm 1/2 inch of the thickness indicated. Where measured thickness of the stabilized course is more than 13 mm 1/2 inch deficient, correct such areas by scarifying, adding new material of proper gradation, reblanding, and recompacting as directed. Where the measured thickness of the stabilized course is more than 13 mm 1/2 inch thicker than indicated, consider the course as conforming to the specified thickness requirements. Average job thickness shall be the average of all thickness measurements taken for the job, but within 6 mm 1/4 inch of the thickness indicated.

3.9 CONSTRUCTION JOINTS

At the end of each day's construction, form a straight transverse construction joint by cutting back into the completed work to obtain a true vertical face free of loose or shattered material. Material along construction joints not properly compacted shall be removed and replaced with soil-bitumen that is mixed, moistened, and compacted in accordance with this specification.

3.10 PRIME COAT

------------------------------------------------------------------------------------------------------------------
NOTE: Bracketed sentences will be deleted if sanding or dusting of the bituminous-primed surfaces is not required or if bituminous-primed surfaces are
to receive bituminous surfacing under the contract.

Before dust settles on the area, apply a prime coat of bituminous material to the finished surface. Bituminous material shall be uniformly applied at the rate of 0.22 to 0.91 L/square meter 0.05 to 0.20 gallons/square yard. [Bituminous material shall be protected by sanding or dusting the treated surface. Sand shall be uniformly applied at the rate of 3.5 to 4.5 kg/square meter 6 to 8 pounds/square yard].

3.11 Sampling and Testing

Perform sampling and testing through an approved commercial testing laboratory or by facilities furnished by the Contractor. Submit calibration curves and related test results, prior to using the device or equipment being calibrated. Submit copies of field test results within [24] hours after the tests are performed. Furnish certified copies of test results, not less than [30] days before material is required for the work. Work requiring testing will not be permitted until the facilities have been inspected and approved. The first inspection will be at the expense of the Government. Costs incurred for any subsequent inspection required because of failure of the facilities to pass the first inspection will be charged to the Contractor. Perform tests in sufficient numbers and at the locations and times directed to ensure that materials and compaction meet specified requirements. Furnish certified copies of test results to the Contracting Officer.

3.11.1 Field Density

Determine field in-place density in accordance with [ASTM D1556/D1556M] [ASTM D2167] [ASTM D6938]. When ASTM D6938 is used, the calibration curves shall be checked, and adjusted if necessary, using the sand cone method as described in paragraph Calibration of the ASTM publication. ASTM D6938 results in a wet unit weight of soil and ASTM D6938 shall be used to determine the moisture content of the soil. The calibration curves furnished with the moisture gauges shall be checked along with density calibration checks as described in ASTM D6938. If ASTM D6938 is used, in-place densities shall be checked by ASTM D1556/D1556M at least once per lift for each [square meter yard] of stabilized material. Furnish calibration curves and calibration test results within 24 hours of conclusion of the tests. Perform at least one field density test for each [200] square meters [250] square yards of each layer of stabilized material.

3.11.2 Sieve Analysis

NOTE: Delete the reference to source of materials when select material is not required.

Perform a minimum of 1 analysis for each [1000] metric tons tons of material to be stabilized, with a minimum of 3 analyses for each day's run until the course is completed. When [the source of materials is changed] [and] [deficiencies are found], repeat the analysis and retest the material already placed to determine the extent of unacceptable material. All in-place unacceptable material shall be replaced at no additional cost to the Government.
3.11.3 Liquid Limit and Plasticity Index

Perform one liquid limit and plasticity index for each sieve analysis. Liquid limit and plasticity index shall be in accordance with ASTM D4318.

3.11.4 Extraction Test

Conduct asphalt content tests in accordance with ASTM D2172/D2172M or ASTM D6307, to confirm the amount of bitumen and moisture in the mixture. One test shall be conducted [for every 4 hours of placement] [for every 275 metric tons 300 tons of mixture placed]. Take samples in accordance with ASTM D979/D979M.

3.11.5 Smoothness Test

**************************************************************************
NOTE: For subgrade and subbase stabilization, this paragraph should be deleted.
**************************************************************************

Take measurements for deviation from grade and cross section shown in successive positions parallel to the road centerline, with a straightedge. Measurements shall also be taken perpendicular to the road centerline at [15] [_____] meter [50] [_____] foot intervals.

3.11.6 Thickness

Measure thickness of the stabilized course at intervals which ensure 1 measurement for each [400] [_____] square meters [500] [_____] square yards of stabilized course. Measurements shall be made in 75 mm 3 inch diameter test holes penetrating the stabilized course.

3.11.7 Bituminous Material

Take a sample of the bituminous material used in accordance with [ASTM D140/D140M] [AASHTO T 40] under the supervision of the Contracting Officer. The sample will be retained by the Government.

3.12 MAINTENANCE

Maintain stabilized area in a satisfactory condition until accepted by the Contracting Officer. Maintenance includes immediate repairs to any defects, repeated as often as necessary to keep the area intact. Correct defects as specified.

3.13 TRAFFIC

Completed portions of the soil-bitumen area may be opened to controlled traffic within 4 hours of completion of the course, if approved by the Contracting Officer.

--- End of Section ---