GENERAL NOTES

1. Roadway dimensions are representative. Subgrade dimensions and control lines are omitted. The cross section shown in this drawing do not necessarily reflect the details shown in the plan or on the Index No. 500 or 506.

2. Plastic (P) soils may be placed above the existing water level or within 4 feet of the proposed base. If placed unconfined in the lower portion of the embankment for some distance along the project rather than full depth for short distances.

3. High plastic (H) soils encountered within the project limits may be used in embankment construction as indicated on this sheet. High plastic soils are not to be used for embankment construction when obtained from outside the project limits.

4. Select (S) soils having an average organic content of more than 2 and one-half (2.5) percent, or having an individual test value which exceeds four (4), percent, shall not be used in the subgrade portion of the roadway.

5. High plastic (H) soils having an average organic content of more than five (5) percent, or an organic content of individual test results which exceed one (1) percent, shall not be used in the portion of embankment above the control line unless written authorization is provided by the District Environmental Engineer. These soils may be used for embankment construction below the control line, unless restricted by the State or otherwise specified in the plans, provided they are completely protected so as to prevent a drainage surface for operational vehicles as approved by the Engineer.

6. Average organic content shall be determined from the last results from a minimum of three randomly selected samples from each side of the embankment. Samples shall be performed in accordance with AASHTO T 285 on the portion of a sample passing the No. 44 sieve.

7. Highway organic soils, composed primarily of partially decayed organic matter, often dark brown or black in color with an odor of dampness and associated flavor, shall be designated as muddy. Further, any organic or admixtures of soil with a characteristic of highly organic materials may be designated as Muddy (M). Highly organic soils shall not be used in the subgrade or embankment portion of the roadbed, with the exception of such used as a component in structural fill material as described in Section 622 of the 1967 Standard Specifications.

DESIGN NOTES

1. The designer shall take into consideration the expected minimum width of the roadbed, and where widening is anticipated, specify in the plan the location of the future widening control line for utilization of High Plastic (H) soils and/or soils classified as organic material in the embankment.

2. The designer shall take into consideration the position of the drainage system in the portion of the roadbed where Plastic (P) soils, High Plastic (H) soils, or soils classified as organic material would be encountered. The designer shall take into consideration that the use of Plastic (P) soils, High Plastic (H) soils, or soils classified as organic material to be limited to that portion of the embankment from the above referenced drainage system to the embankment.

FLEXIBLE PAVEMENT
DIVIDED ROADWAYS

UNDIVIDED ROADWAY

RIGID PAVEMENT - TREATED PERMEABLE BASE OPTION

CLASSIFICATION (AASHTO M 85)

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>SOIL</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>Selected</td>
<td>A-1, A-3, A-2-4 **</td>
</tr>
<tr>
<td>M</td>
<td>Muck</td>
<td>A-8</td>
</tr>
</tbody>
</table>

** See General Notes Nos. 4 & 5 for utilization of soils classified as organic material or muck.

** Certain types of A-2-4 material are likely to retain excess moisture and may be difficult to dry and compact. They should be used in the embankment above the water level existing at time of construction. They may be used in the subgrade portion of the embankment when approved by the District Materials Engineer. A-2-4 material placed below the existing water level must be non-plastic and contain less than 5% passing the No. 200 U.S. Standard sieve.

*** For cut sections this dimension may be reduced to 24", and Index No. 500.

For other strata and stone fill Thi(lnt)h dimension may be reduced to 48".
DIVIDED ROADWAYS

UNDIVIDED ROADWAY

SYMBOL | SOIL | CLASSIFICATION (AASHSTO M 65)
-------|------|---------------------------------|
S      | Select| A-1, A-3, A-2-4 **
S+     | Special Select | A-3 *** With Minimum Average Lab Permeability of Soil of 5 cm/sec (0.4 M ft./day) as per FM 1-T205
#      | Weak   | A-8

Classification listed left to right in order of preference.

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Note: SPECIAL SELECT SOIL OPTION may be used only when approved in writing by the District Materials Engineer and shown in the plane.

RIGID PAVEMENT - SPECIAL SELECT SOIL OPTION