STILLING BASIN REQUIRED VOLUME \[ \text{Vol} = L \times W \times 0.083 \]

- \( L \) = PAVEMENT LENGTH (FLOWING TO STRUCTURE)
- \( W \) = PAVEMENT WIDTH (FLOWING TO STRUCTURE)

0.083 = 1" RAIN / (12"/1')

NOTE: THE LENGTH, WIDTH, AND DEPTH OF THE STRUCTURE MAY BE ADJUSTED AS REQUIRED TO MATCH THE SITE CONDITIONS, AS LONG AS THE MINIMUM VOLUME REQUIRED FOR THE LENGTH OF IMPERVIOUS PAVEMENT THAT FLOWS TO EACH WATER BASIN.

<table>
<thead>
<tr>
<th>LENGTH OF ROAD</th>
<th>MIN. REQUIRED VOL. (BASED ON 20&quot; WIDTH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100' ROAD</td>
<td>V = 166 C.F.</td>
</tr>
<tr>
<td>200' ROAD</td>
<td>V = 323 C.F.</td>
</tr>
<tr>
<td>300' ROAD</td>
<td>V = 498 C.F.</td>
</tr>
<tr>
<td>400' ROAD</td>
<td>V = 664 C.F.</td>
</tr>
<tr>
<td>500' ROAD</td>
<td>V = 830 C.F.</td>
</tr>
<tr>
<td>600' ROAD</td>
<td>V = 996 C.F.</td>
</tr>
</tbody>
</table>

SURFACE AREA WILL BE STABILIZED DURING THE CONSTRUCTION AND GRASS ESTABLISHMENT PROCESS.

TYPICAL PLAN VIEW

TYPICAL SECTION

SECTION THROUGH STONE CHECK DAM

VARIATES FOR TOTAL PAVED SURFACE DRAINAGE STRUCTURE

RIP RAP ENERGY DISSIPATOR, REFER TO DETAIL FOR INSTALLATION.

OUTLET PIPE

FLOW

DEPTH + 6" MIN.

2'-0"

4'-0" MIN.

1

3

4'-0"

1

3

GRASS STILLING BASIN

GREENVILLE COUNTY STORM WATER MANAGEMENT

WQ–23A

STANDARD DRAWING NO.

NTS

APPROVED BY:
GREENVILLE COUNTY STORM WATER MANAGEMENT

DATE

January 2018