PLAN VIEW

CROSS SECTION

TRENCH SECTION

BILL OF MATERIALS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>AMOUNT</th>
<th>UNIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rock Riprap</td>
<td>Tons</td>
<td></td>
</tr>
<tr>
<td>Bedding</td>
<td>Tons</td>
<td></td>
</tr>
<tr>
<td>Geotextile</td>
<td>Sq. Yd.</td>
<td></td>
</tr>
<tr>
<td>Collector Pipe 5&quot; Diameter</td>
<td>L.F.</td>
<td></td>
</tr>
<tr>
<td>Tee ___&quot; x 5&quot; Stub</td>
<td>1</td>
<td>Each</td>
</tr>
<tr>
<td>End Cap 5&quot; Diameter</td>
<td>1</td>
<td>Each</td>
</tr>
</tbody>
</table>

NOTES:
1. Collector pipe should be PE tubing with 5/8" holes, ASTM F4065 or F667. Some leach bed pipe will qualify.
2. If vehicular traffic will be crossing over the collector, use schedule 40 PVC pipe in lieu of the PE tubing. Drill holes in pipe. Space four 1/2" diameter holes around pipe at 6" spacing along length of pipe.
3. Geotextile (non-woven, needle punched) min. criteria:
   - Grab Tensile strength (lb) ASTM D 4632 ___________ 200
   - Elongation at failure (%) ASTM D 4632 ___________ 25
   - Triaxial Tear strength (lb) ASTM D 4533 ___________ 79
   - Puncture strength (lb) ASTM D 6241 ___________ 433
   - Ultraviolet light (% retained strength) ASTM 4355 __min 50
   - Apparent opening size (AOS) ASTM D 4791 ______
     max 0.22 mm (US sieve size 70)
   - Permeability sec^-1 ASTM D 4491 ___________ min 0.70
4. Any geotextile splices shall overlap a minimum of 18 inches, with upstream or upslope geotextile overlapping the abutting downslope geotextile.
5. If collector is located at outlet of culvert pipe, size of rock riprap should be larger for velocity of flow.
6. If collector is located in a grassed waterway, length L should be at least 2/3 of waterway top width.