May 17, 2002

MEMORANDUM TO TEAM LEADERS AND CONSULTANTS

SUBJECT: Perforated Pipe Underdrain

On all future projects, the 6" perforated pipe underdrain at the beginning and end of the bridge shall be replaced with a 4" perforated pipe underdrain. The bid item shall be as shown in the table below. If additional drainage is needed, additional 4" pipes shall be added and the need for additional pipes shall be justified.

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>BID ITEM</th>
<th>UNIT</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>8021204</td>
<td>4&quot; PERFORATED PIPE UNDERDRAIN</td>
<td>LF</td>
<td></td>
</tr>
</tbody>
</table>

Randy R. Cannon, P. E.
Bridge Design Engineer

cc: Assistant Bridge Design Engineers
    Bridge Construction Engineer

File: PC/JLC