## Pipe Conduits

All pipe shall be of schedule 40 PVC in 300-psi strength. Conduits shall be layed out in a cross-sectional view for the design engineer to design. All conduits shall be 4" in diameter and shall be placed in the same trench as the sewer line. Conduits shall be placed at least 3 feet from the edge of the channel and shall be separated by a minimum of 2 feet. Conduits shall be connected at the upstream and downstream ends of the channel and shall be covered with a minimum of 2 feet of compacted earth fill.

### Earth Fill

All earth fill shall be compacted to the design engineer's specifications. The fill shall be free of any debris or contaminants that may affect the strength or stability of the pipe. The fill shall be compacted to a minimum of 95% of the maximum dry density. Conduits shall be protected from damage during the construction process by the use of shoring and/or temporary covers.

### Structure Backfill

All structure backfill shall be placed with a minimum of 1 foot above the top of the pipe. The backfill shall be compacted to a minimum of 95% of the maximum dry density. The backfill shall be placed in layers not exceeding 6 inches in depth and shall be compacted after each layer. All backfill shall be placed and compacted per the design engineer's specifications.

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## Concrete

Concrete shall be placed in accordance with the design engineer's specifications. The concrete shall be placed in layers not exceeding 6 inches in depth and shall be compacted after each layer. The concrete shall be placed in a manner that minimizes the risk of the pipe becoming dislodged.

### Care of Water During Construction

All water in the construction area shall be diverted away from the pipe. The water shall be directed to designated drainage areas to prevent the pipe from becoming submerged. The pipe shall be protected from damage during the construction process by the use of shoring and/or temporary covers.

### Stabilization

All construction equipment shall be placed on a firm base to prevent the pipe from becoming unstable. The pipe shall be protected from damage during the construction process by the use of shoring and/or temporary covers.

### Erosion and Sediment Control

Erosion and sediment control measures shall be implemented to minimize the impact of construction on the surrounding environment. All construction equipment shall be placed on a firm base to prevent the pipe from becoming unstable. The pipe shall be protected from damage during the construction process by the use of shoring and/or temporary covers.

### Operation, Maintenance and Inspection

All conduits shall be inspected at the completion of the construction process. The inspection shall be performed by a certified inspector. The inspection shall verify that all conduits meet the design engineer's specifications. The conduits shall be maintained in accordance with the design engineer's specifications.

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**Table:**

<table>
<thead>
<tr>
<th>Conduit Type</th>
<th>Material</th>
<th>Size</th>
<th>Length</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PVC</td>
<td>Schedule 40</td>
<td>4&quot;</td>
<td>100 ft</td>
<td>Standard</td>
</tr>
</tbody>
</table>

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**Diagram:**

[Insert diagram of the pipe conduits and earth fill construction process here.]