EGACE-A

Engineer Field Notes

Commanding Officer
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1. Check Dams

When working in a stream bed, it is usually important to see that proper drainage is maintained especially when concrete work is anticipated. An excellent way to accomplish this is by use of check dams. One or more of these can be installed and drainage dug. Then when it rains the dam should be closed so that no water can overflow from the stream back into the job site.

2. Seepage Into Footer Excavation

When preparing to pour a concrete soil-bearing type footer for a bridge abutment, ground water seepage from the nearby stream can be a constant problem. However, the problem can be lessened by investigating downstream to find any obstructions which might be blocking the free flow of the stream. These obstructions should be dredged or blasted out. This procedure often lowers the water level at the bridge site enough to reduce or eliminate the seepage.

3. Expedient Wire Mesh

When pouring concrete on a slope such as the apron underneath a bridge abutment, short U-shaped pickets and barbed wire can be just as effective as wire mesh when used properly. By sitting up the barbed wire in a tanglefoot design with the "U" of the picket facing uphill and the wire stretched tight, it can be used as a retaining force for the concrete and also provide added strength.

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Commanding