

Bureau of Development Review - Engineering Review Division

M E M O R A N D U M

225 N. Center Street * Room 207 * Westminster Md. 21157 * Tel 410-386-2143 * FAX 410-386-2407

To: Surveyors and Engineers

From: Ronald A. Church, Mgr.

Re: Subgrade Drains – New Standard Detail

Date: January 2, 2003

Please find attached copies of the new standard detail for Subgrade Drains and General Specifications. Subgrade drains shall be installed as a standard item on open section roads and where paved widening or auxiliary lanes are being constructed along existing county roads. Subgrade drains shall be placed below both edges of the stone base course for the road and shall consist of a one foot wide by one foot deep stone filled trench containing a perforated pipe.

The new Subgrade Drain standard, Plate 43-A, has been approved by the Department of Public Works for use on open section roads and supercedes Plate 43 effective immediately. Development projects which have been previously submitted for final plan review will be grandfathered until March 3, 2003. After March 3, final plans which have not received approval will be required to include the new standard detail.

Typical sections for roads must reflect the new standard for Subgrade Drains. The detail itself must appear, at scale, on construction plans. In addition to the detail, construction plans must provide station, offset, notes, and dimensions necessary for installation of outfalls. Subgrade drains must be shown on cross-sections with the notation "Subgrade Drain – Typical" given at least once on each cross section sheet. Subgrade drains on each side of the road shall have their own outfall. Wherever fittings are used, plan must show type of fitting, station, and offset (Ex. 4" x 90° elbow sta.10+25 10' right).

Profiles of Subgrade Drains will not be required where drains run longitudinally with the edge of road. Profiles will be required for outfalls. Subgrade drain profiles shall be on scale 1"= 5' horizontal and vertical, profile must appear on same plan sheet where the outfall is shown, and shall be titled "Subgrade Drain Outfall" with the station given and either right or left noted Ex.: "Subgrade Drain Outfall – Sta. 10+25 right" .

If you have any questions please feel free to call at 410-386-2143.

Thank you.

cc: Deborah Butler, Civil Engineer Mgr., Bur. of Engineering
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cc: cont'd

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Group Hanover, Inc. 213 Carlisle Street Hanover, PA 17331
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