

Installation:

Excavate subgrade below design elevation to allow *for* thickness of geotextile filter and riprap. thickness 1.5 times the maximum stone diameter.

Install riprap to a minimum

Compact the fill used in the subgrade to the density of the surrounding undisturbed material. enough to protect the geotextile blanket *from* tearing.

Placement of the underlying geotextile blanket should be done immediately after subgrade preparation. The upper and lower ends of the blanket should be buried a minimum of 12-inches deep. Care should be taken not to damage the blanket when placing the riprap.

Subgrade should be smooth

Placement of riprap should follow immediately after placing the geotextile blanket. it produces a dense, well-graded mass of stone with minimum voids. Hand placing the riprap may be necessary to achieve the required grades and a good distribution of stone sizes.

The riprap should be placed so that

Immediately following installation, stabilize all disturbed areas with vegetation. Pipe or channel outlets at the top of cut slopes *or* on slopes steeper than 1% should not be protected using just outlet protection as a result of the re-concentration and large velocity of flow encountered as the flow leaves the structural apron.

Inspection and Maintenance:

Once properly installed, outlet protection should require little maintenance. However, outlet protection should be inspected periodically to determine if high flow rates have caused erosion and scouring to dislodge any of the stone.

Any necessary repairs should be made promptly. Do not re-install stones above finished grade.



City of Bowling Green

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PAVED DITCH
OULET NOTES

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APPROVED BY: _____ DATE _____
DIRECTOR OF ENGINEERING

SOURCE: LOUISVILLE MSD