Index 425-030 through 425-032 Barrier Inlets

Design Criteria and Guidance

FDOT Design Manual (FDM); ***Drainage Manual (DM)***; ***Drainage Design Guide (DDG)***

Design Assumptions and Limitations

Median Barrier Inlet is not suitable for use in pedestrian traffic or bicycle way.

Adjacent Barrier Inlets are suitable for bicycle and occasional pedestrian traffic when roller bars (Index 425-031 Detail A, Sheet 2) are installed. Do not place inlets in a designated pedestrian travel way.

Design Adjacent Barrier Inlets with minimum depths when located in embankments constructed with earth anchored retaining wall. This is to reduce adverse impacts on the anchorage system. Avoid runs of pipe parallel to and near anchored walls where practical. Coordinate with Drainage and Design during design and construction of storm water systems within anchored wall systems.

Grates for Curb and Gutter Barrier Inlets have extended crossbars or bar stubs, and are suitable for use in areas of bicycle traffic.

Recommended maximum pipe sizes for Curb and Gutter Inlets pipe connections to inlet structure bottoms are 18” longitudinal and 30” transverse. Use Alternate B bottoms, Index 425-010, for larger pipe.

Plan Content Requirements

Include Drainage Structure information in the Plans in accordance with the requirements of the Basis of Estimates Manual (***BOE***) and the ***FDM.***

Specify reticuline grate for Median Barrier Inlets where bicycle traffic or occasional pedestrian traffic is anticipated.

For Curb and Gutter Inlets pay item purposes, depth of the barrier inlet is computed using the center of box grate elevation minus either the flow line elevation of the lowest pipe flow line or the top of the sump floor elevation.

Payment

Item number	Item Description	Unit Measure
425-1-AAB	Inlet - Drainage	EA

See the ***BOE*** and ***Specification 425*** for additional information on payment, pay item use and compensation.