

Index 425-015 Manhole Tops

Design Criteria and Guidance

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

Design Assumptions and Limitations

Manholes:

- Specify Manhole top Type 8 in the Plans when depths shown in the Manhole Tops details can be maintained.
- Verify the minimum thickness (h) above the pipe opening is met with the Type 8 Manhole. If the minimum thickness (h) cannot be met, specify a Type 7 Inlet. See Index 425-001 sheet 6 of 8
- Consider using the 2-piece cover where depths exceed 5' and manual entry may be required for cleaning. Clearly note the requirement for a 2-piece cover on the Drainage Structure sheets in the Plans.
- 2-piece covers are required when sump depths exceed 2'.

Replace Manhole Top:

- Use the standard cover for all frames Types I, II, III, two-piece covers, and as a replacement cover for all previous frames with 1 ½" deep seats (traffic type).
- Use the 185 lb. (non-traffic) cover from the 1984 Roadway and Traffic Design Standards, Index 201, as the replacement cover for existing frames with ½" deep seats only. Installation of new frames with ½" seat is not permitted.

Plan Content Requirements

Specify 2-piece manhole cover when required for maintenance access.

Reference 1984 Design Standard Index 201 for replacement of manhole covers with ½" seat.

Payment

Item number	Item Description	Unit Measure
425-2-AAB	Manhole – Drainage	EA
425-5-A	Adjust Manholes	EA
425-7	Replace Manhole Cover	EA

See the [BOE](#) and [Specification 425](#) for additional information on payment, pay item use and compensation.