

Section 843—Concrete Pipe

843.1 General Description

This section includes the requirements for reinforced concrete pipe, nonreinforced concrete pipe, and concrete underdrain pipe.

843.1.01 Related References

A. Standard Specifications

[Section 800—Coarse Aggregate](#)

[Section 801—Fine Aggregate](#)

[Section 831—Admixtures](#)

[Section 880—Water](#)

B. Referenced Documents

AASHTO M 86(M 86M), Class II

AASHTO M 170 (M 170M)

AASHTO M 175 (M 175M) or AASHTO M 176 (M 176M)

[QPL 4](#)

[GDT 16](#)

843.2 Materials

843.2.01 Reinforced Concrete Pipe

A. Requirements

1. Type

Use reinforced concrete pipe that meets the requirements of AASHTO M 170 (M 170M), with the changes described in the following table. For a list of sources, see [QPL 4](#).

Material	Requirements	Other Modifications
Coarse aggregate	Subsection 800.2.01	Gradation requirements do not apply
Fine aggregate	Subsection 801.2.02	Gradation requirements do not apply
Fly ash	Subsection 831.2.03.A	None
Water	Subsection 880.2.01	None

NOTE: Before manufacture, you may request approval of modified designs that differ from the Specifications.

2. Certification

File a certificate with the Engineer stating that the concrete pipe manufactured for Department use meets the requirements of reinforcement steel specified in this Section.

A bonded legal authority of the manufacturing company shall endorse the requirements certification.

Submit a guarantee with the certificate stating that concrete pipe will be replaced, without cost to the purchaser, if the reinforcement steel does not meet these Specifications.

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Ensure that the guarantee remains in effect as long as the manufacturer furnishes concrete pipe for Department use.

This guarantee does not limit the right of the Department to inspect and check the materials in manufactured concrete pipe prior to and during pipeline construction.

B. Fabrication

General Provisions 101 through 150.

C. Acceptance

The Department will test and inspect using [GDT 16](#).

D. Materials Warranty

See the Certification requirements under [Subsection 843.2.01.A.2](#).

843.2.02 Nonreinforced Concrete Pipe

A. Requirements

1. Type

Use nonreinforced concrete pipe to convey sewage, industrial waste, and storm water that meets the requirements of AASHTO M 86 (M 86M), Class II, with the following changes:

Material	Requirements	Other Modifications
Coarse aggregate	Subsection 800.2.01	Gradation requirements do not apply
Fine aggregate	Subsection 801.2.02	Gradation requirements do not apply
Fly ash	Subsection 831.2.03.A	None
Water	Subsection 880.2.01	None

B. Fabrication

General Provisions 101 through 150.

C. Acceptance

Test and inspect with [GDT 16](#).

D. Materials Warranty

General Provisions 101 through 150.

843.2.03 Concrete Underdrain Pipe

A. Requirements

1. Type

Use concrete underdrain pipe that meets the requirements of AASHTO M 175 (M 175M) or AASHTO M 176 (M 176M), with the following changes unless the Plans state otherwise:

Material	Requirements	Other Modifications
Coarse aggregate	Subsection 800.2.01	Gradation requirements do not apply
Fine aggregate*	Subsection 801.2.02	Gradation requirements do not apply
Fly ash	Subsection 831.2.03.A	None

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Water	Subsection 880.2.01	None
*Use fine aggregate in standard strength, perforated, nonreinforced concrete underdrain pipe.		

B. Fabrication

General Provisions 101 through 150.

C. Acceptance

Test and inspect with [GDT 16](#).

D. Materials Warranty

General Provisions 101 through 150.