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**INSTRUCTIONAL BULLETIN NO. 24-04**

**Regarding New Round Catch Basin Standard Drawings  
and Revisions to the Drainage Manual**

**Effective August 16, 2024, letting (June 5, 2024, Turn-in)**, the following new Standard Drawings are released for use. In addition, Chapter 10 of the Roadway Design Guidelines - Index of Standard Drawings and the web site have been updated accordingly and are available online.

When designing storm drainage systems for a project, designers should now design the system with the new Round Catch Basin Standard Drawings and pay item numbers. The current ORD workspace version 10.12 (2022 Release 3) offers the option to use the new standards. Compared to the existing round CB series, the new standards use Welded Wire Reinforcement (WWR) as well as improved structural details assisting with the pre-cast manufacturing saving time and possible material limitations. The new Round CB standard drawing series will offer the designer more flexibility over the existing CB standard drawings. Due to this new flexibility it is important that the designer lists both the base, and the lid standard drawing numbers within the tabulated quantities. However, if the storm drainage system cannot be designed with the new Round Catch Basins, then the existing catch basin standard drawings showing, square, rectangular or Round CB alternatives should be used.

In addition, Table 7-4 on page 7-24, in Section 7.03.5, Catch Basins and Manholes, of the Drainage Manual has been revised.

**New Standard Drawings:**

**10-103.00 CATCH BASINS AND MANHOLES**

**10-103.01 CATCH BASINS**

<b>DRAWING NUMBER</b>	<b>REVISION DATE</b>	<b>DESCRIPTION</b>
D-RL-1		ROUND LID DETAILS FOR DOUBLE CURB AND WALL INLET
D-RL-2		ROUND LID DETAILS FOR DOUBLE CURB AND WALL INLET
D-RL-3		ROUND LID DETAILS FOR SINGLE OPENING AREA DRAIN
D-RL-4		ROUND LID DETAILS FOR DOUBLE OPENING AREA DRAIN
D-RS-1		PRECAST ROUND STRUCTURES (48" THRU 120")

D-RS-2 PRECAST ROUND STRUCTURES REINFORCEMENT DETAILS

D-RS-3 MISCELLANEOUS DETAILS FOR ROUND STRUCTURES

**10-103.02 JUNCTION BOXES**

<b>DRAWING NUMBER</b>	<b>REVISION DATE</b>	<b>DESCRIPTION</b>
D-RJB-1		PRECAST ROUND JUNCTION BOX STRUCTURES (48" THRU 120")

**10-103.03 MANHOLES**

<b>DRAWING NUMBER</b>	<b>REVISION DATE</b>	<b>DESCRIPTION</b>
D-RMH-1		PRECAST MANHOLE STRUCTURES (48" THRU 120")

**10-103.05 SPRING DRAIN BOXES**

<b>DRAWING NUMBER</b>	<b>REVISION DATE</b>	<b>DESCRIPTION</b>
D-RSB-1		PRECAST ROUND SPRING DRAIN BOX STRUCTURES (48" THRU 120")

These standard drawings are located on the web site and in Chapter 10 of the Design Guidelines and can be found in the following links.

Standard Drawings:

<https://www.tn.gov/content/tn/tdot/roadway-design/standard-drawings-library/standard-roadway-drawings.html>

Roadway Design Guidelines:

Chapter 10 - Index of Standard Drawings is available online at this location:

[https://www.tn.gov/content/dam/tn/tdot/roadway-design/documents/design\\_guidelines/rdg\\_pdn/pdnDG-C10.pdf](https://www.tn.gov/content/dam/tn/tdot/roadway-design/documents/design_guidelines/rdg_pdn/pdnDG-C10.pdf)

The revised Table 7-4 is located on the web site and can be found in the following link.

Drainage Manual:

Chapter 7 – Revised Table 7-4 is available online at this location:

[https://www.tn.gov/content/dam/tn/tdot/roadway-design/documents/drainage\\_manual/DM-Chapter\\_07.pdf](https://www.tn.gov/content/dam/tn/tdot/roadway-design/documents/drainage_manual/DM-Chapter_07.pdf)




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SH:LC:ARH:RBB  
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**TDOT DESIGN DIVISION DRAINAGE MANUAL**

**January 17, 2024**

	Shape	Inside Dimensions (inches)	Inlet types
			Single, double, quad, MH, JB, Area, Spring
<i>Precast &amp; Cast-in-Place</i>	Rectangular	48 x 36	10, 12, 13, 25, 41
		96 x 36	14, 26, 29
		96 x 48	16, 27, 40, 43, 45
		96 x 62	17,43
	Square	32 x 32	10, 12, 25, 41, 38, 42
		48 x 48	10, 12, 25, 41 38, 39, 42
		62 x 62	12, 25, 41, 51, 38, 39, 42
		84 x 84	12, 25, 31, 39, 41, 42
		108 x 108	12, 14, 25, 31, 39,41, 44, 46
	Round	48	10, 12, 13, 25
		60	12, 13, 25, 41, 38, 42
		72	12, 13, 25, 41, 38, 42
		84	12, 13, 25, 31,41, 38, 42
96		12, 13, 14, 25, 39, 41	
108		12, 13	
120		12,13	
<i>Precast</i>	Round with WWR	48	10, 12, 13, 25
		60	12, 13, 25, 38, 41, 42
		72	12, 13, 25, 41, 38, 42
		84	12, 13, 25,31, 38, 41, 42
		96	12, 13,14, 25, 38, 41, 42
		108	12, 13, 14, 25, 31, 38, 39, 41, 42, 43
		120	12, 13, 14, 25, 31, 38, 39, 41, 42, 43

Table 7-4  
 Standard Inlet Types and Applications