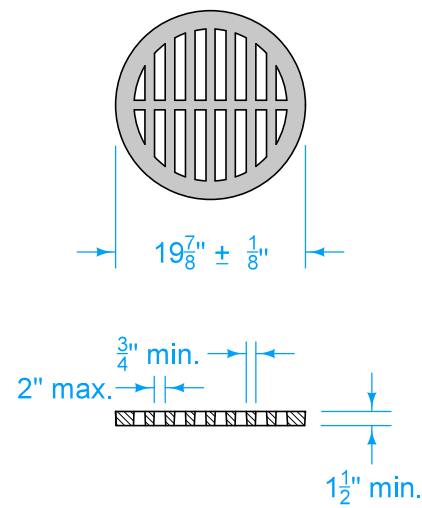
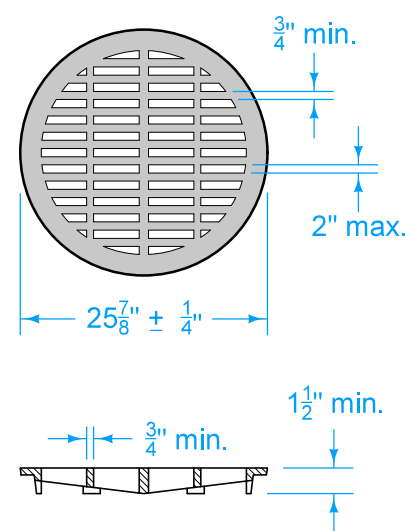


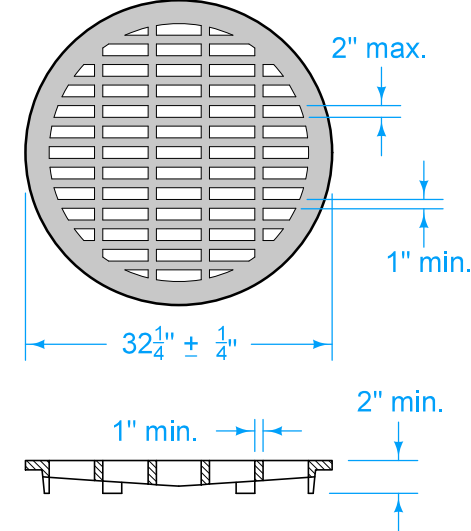
TYPE 4



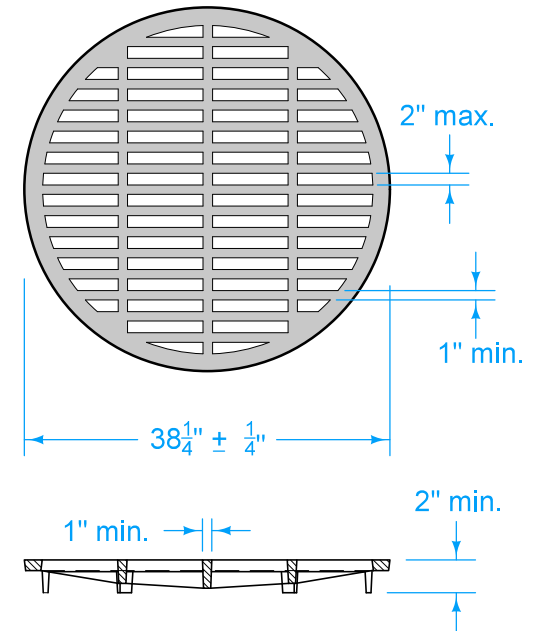
**TYPE 4A**  
For Placement on 18" RCP



**TYPE 4B**  
For Placement on 24" RCP

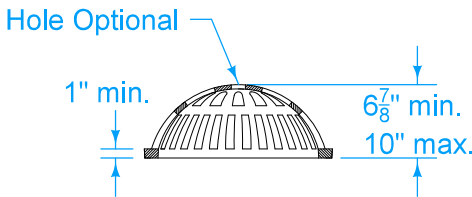
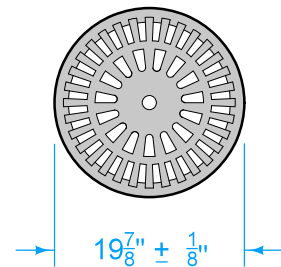


**TYPE 4C**  
For Placement on 30" RCP

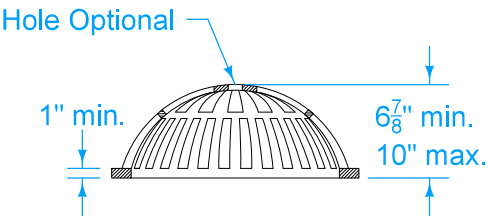
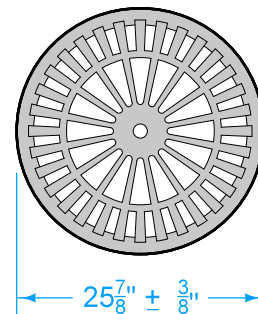


**TYPE 4D**  
For Placement on 36" RCP

**TYPE 3**  
(Light Duty)



**TYPE 3A**  
For Placement on 18" RCP



**TYPE 3B**  
For Placement on 24" RCP

**TYPE 5**  
(Light Duty)  
For Placement on 24" to 30" RCP

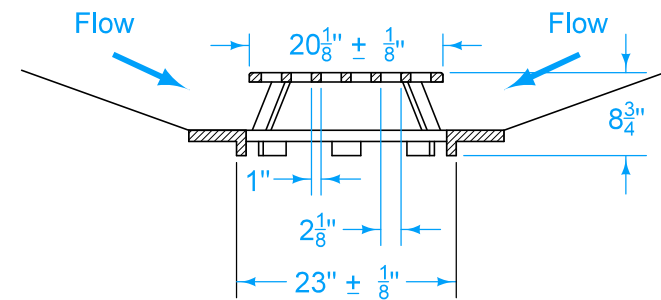
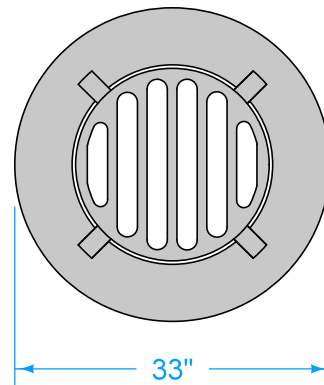



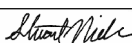


FIGURE 6010.604 SHEET 1 OF 2

		REVISION	
		4	10-21-25
		<b>SW-604</b>	
<b>FIGURE 6010.604</b>	<b>STANDARD ROAD PLAN</b>	SHEET 1 of 2	
REVISIONS: Update Sudas and IDOT Logos.			
			
SUDAS DIRECTOR		DESIGN METHODS ENGINEER	
<b>CASTINGS FOR AREA INTAKES</b>			

Technical drawing of a rectangular metal grate. The overall dimensions are 42" wide by 30" high. The inner opening is 36" wide by 24" high. The grate consists of a grid of vertical bars. The spacing between the bars is 3 1/8". The thickness of the bars is 3/4". The grate is shown in two views: a top view and a side view. The side view shows the grate is 4" thick.

**TYPE 7**

65<sup>5</sup>/<sub>8</sub>" to 66<sup>1</sup>/<sub>2</sub>"

38"

**SECTION A-A**

17<sup>3</sup>/<sub>4</sub>" to 17<sup>7</sup>/<sub>8</sub>"

5"

55<sup>5</sup>/<sub>8</sub>" to 57<sup>3</sup>/<sub>4</sub>"

**SECTION A-A**

The diagram illustrates a Type 7 fire-rated door assembly. The top view shows a door with three panels, each containing a grid of rectangular openings. The overall width is dimensioned as 65<sup>5</sup>/<sub>8</sub>" to 66<sup>1</sup>/<sub>2</sub>" and the height as 38". Callout 1 points to the top edge, callout 2 points to the grid openings, and callout 3 points to the bottom edge. Section A-A is indicated by a vertical line with arrows pointing to the top and bottom views. The side view (Section A-A) shows the door's profile, including the top edge, the grid openings, and the bottom edge. The width of the door is dimensioned as 55<sup>5</sup>/<sub>8</sub>" to 57<sup>3</sup>/<sub>4</sub>". The height of the door is dimensioned as 17<sup>3</sup>/<sub>4</sub>" to 17<sup>7</sup>/<sub>8</sub>". The bottom edge is dimensioned as 5". Callout 1 points to the top edge, callout 2 points to the grid openings, and callout 3 points to the bottom edge. The side view also shows the door's profile, including the top edge, the grid openings, and the bottom edge.

- 1 Frame provided in three segments (two ends and one center). Bolt segments together as specified by the casting manufacturer.
- 2 Provide bicycle safe, vane style grates with a minimum open area of 4 square feet. At low points, grates with vanes facing both directions will be allowed.
- 3 If required by casting manufacturer, provide support beam under all frame joints. Modify structure walls as required to provide pocket for beam.
- 4 Cast grate without locking lugs so it may be used in an inverted position.

(Light Duty)

21 <sup>3</sup>/<sub>4</sub>"

22"

7/8" min. 1" min. 18 <sup>3</sup>/<sub>4</sub>" 2 <sup>3</sup>/<sub>8</sub>" min.

7/8" min.

4




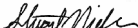
GRATE

Minimum Weight = 85 lbs.

22" 20" 1" 3/4" 7/8"

FRAME

Minimum Weight = 75 lbs.

			REVISION <div>4</div> <div>10-21-25</div>	
	<b>FIGURE 6010.604</b>		<b>SW-604</b> SHEET 2 of 2	
<b>REVISIONS:</b> Update Sudas and IDOT Logos.				
				
SUDAS DIRECTOR		DESIGN METHODS ENGINEER		
<h1 style="text-align: center;">CASTINGS FOR AREA INTAKES</h1>				