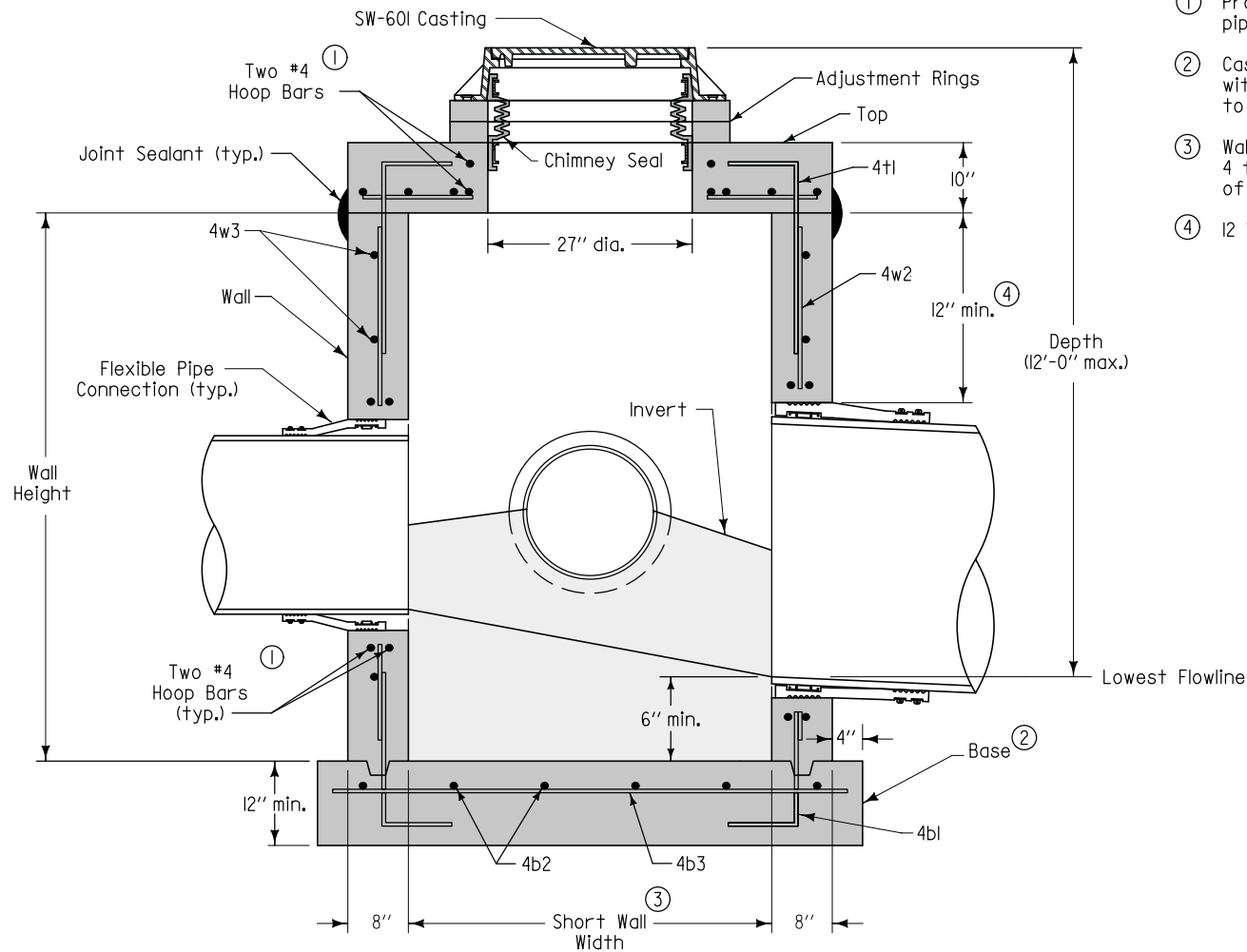


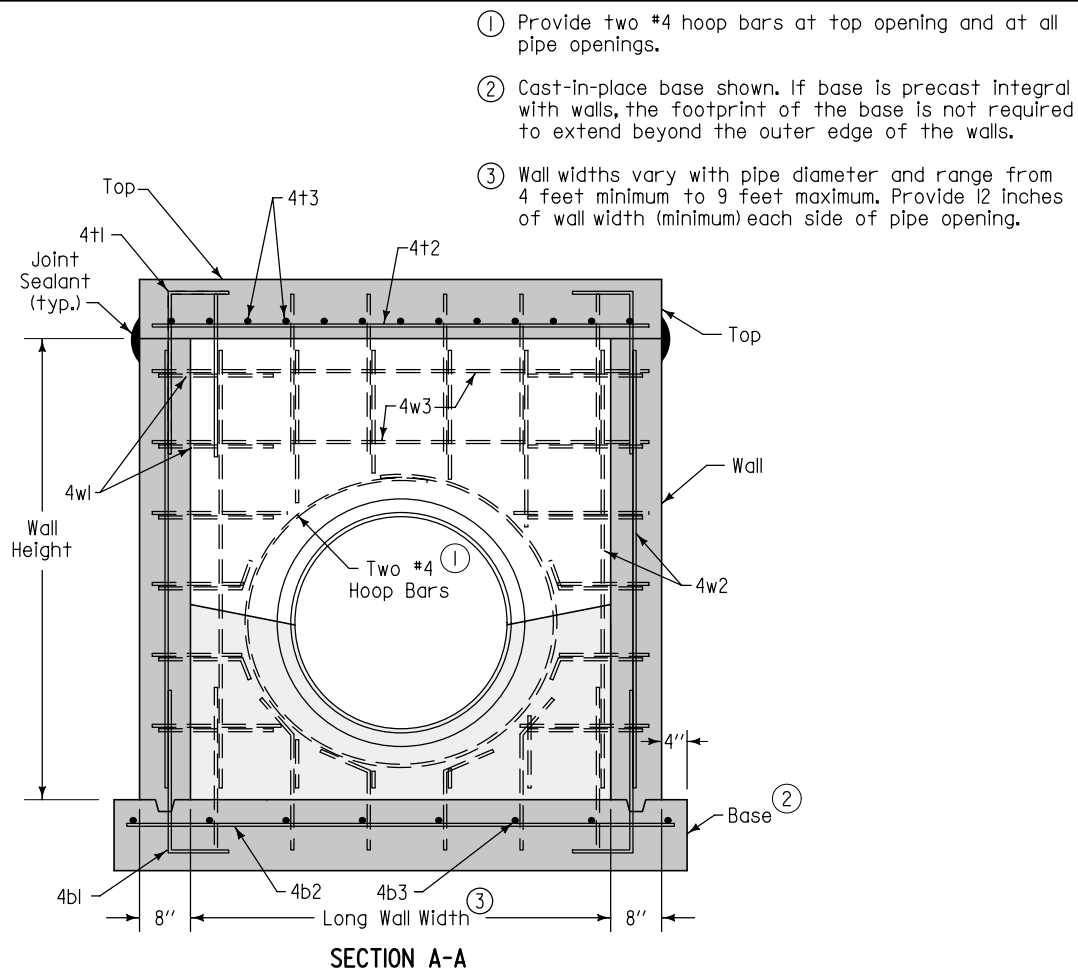
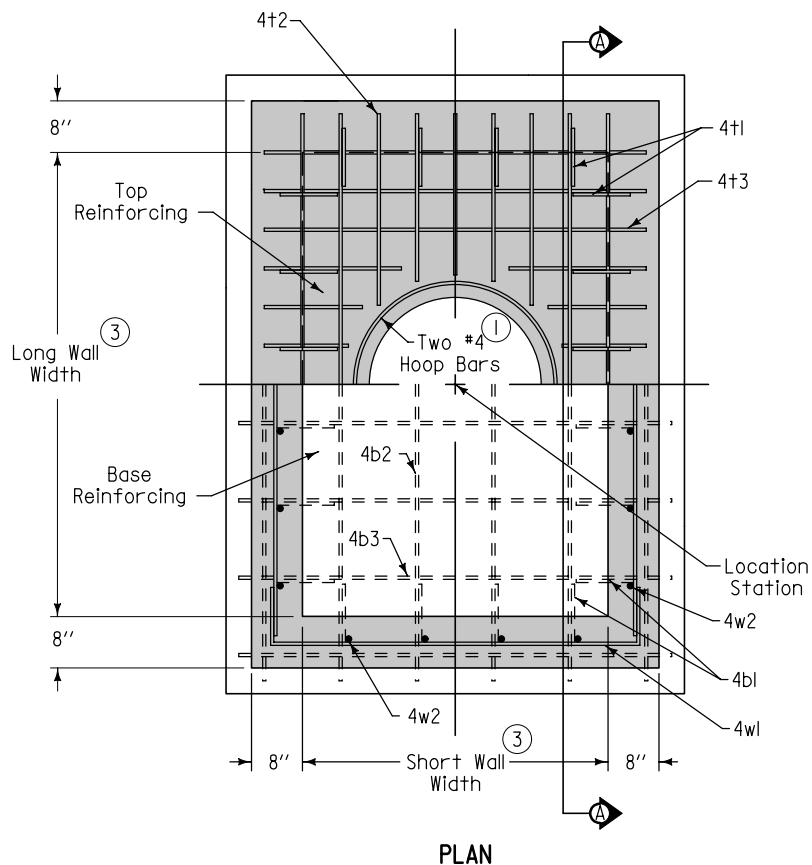
Adjacent walls may have different widths based upon pipe configuration, but structure must be rectangular.



TYPICAL SECTION

- ① Provide two #4 hoop bars at top opening and at all pipe openings.
- ② Cast-in-place base shown. If base is precast integral with walls, the footprint of the base is not required to extend beyond the outer edge of the walls.
- ③ Wall widths vary with pipe diameter and range from 4 feet minimum to 9 feet maximum. Provide 12 inches of wall width (minimum) each side of pipe opening.
- ④ 12 inch minimum wall height above all pipe openings.

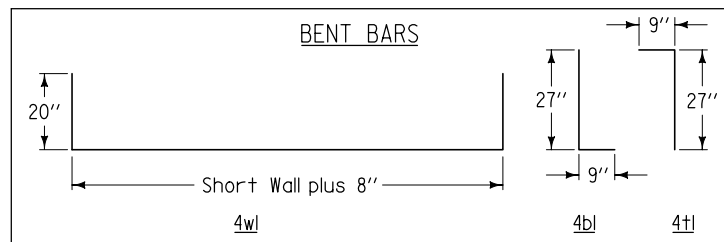
 SUDAS	 Iowa Department of Transportation	REVISION		
		NEW	04-21-09	
FIGURE 6010.302		SW-302		
STANDARD ROAD PLAN				
		SHEET 1 of 2		
REVISIONS: New. Replaces SUDAS Type "E" Manhole.				
 SUDAS DIRECTOR		 DESIGN METHODS ENGINEER		
RECTANGULAR SANITARY SEWER MANHOLE				



- ① Provide two #4 hoop bars at top opening and at all pipe openings.
- ② Cast-in-place base shown. If base is precast integral with walls, the footprint of the base is not required to extend beyond the outer edge of the walls.
- ③ Wall widths vary with pipe diameter and range from 4 feet minimum to 9 feet maximum. Provide 12 inches of wall width (minimum) each side of pipe opening.

REINFORCING BAR LIST

Mark	Size	Location	Shape	Length	Spacing
4b1	4	Base	└	36"	12"
4b2	4	Base	—	Long Wall plus 18"	12"
4b3	4	Base	—	Short Wall plus 18"	12"
4t1	4	Top	┐	36"	12"
4t2	4	Top	—	Long Wall plus 12"	6"
4t3	4	Top	—	Short Wall plus 12"	6"
4w1	4	Wall	┌	Short Wall plus 48"	12"
4w2	4	Wall	—	Wall Height minus 4"	12"
4w3	4	Wall	—	Long Wall plus 12"	12"



SUDAS FIGURE 6010.302 REVISIONS: New. Replaces SUDAS Type "E" Manhole. SUDAS DIRECTOR DESIGN METHODS ENGINEER	Iowa Department of Transportation STANDARD ROAD PLAN	REVISION NEW 04-21-09 SW-302 SHEET 2 of 2
	RECTANGULAR SANITARY SEWER MANHOLE	