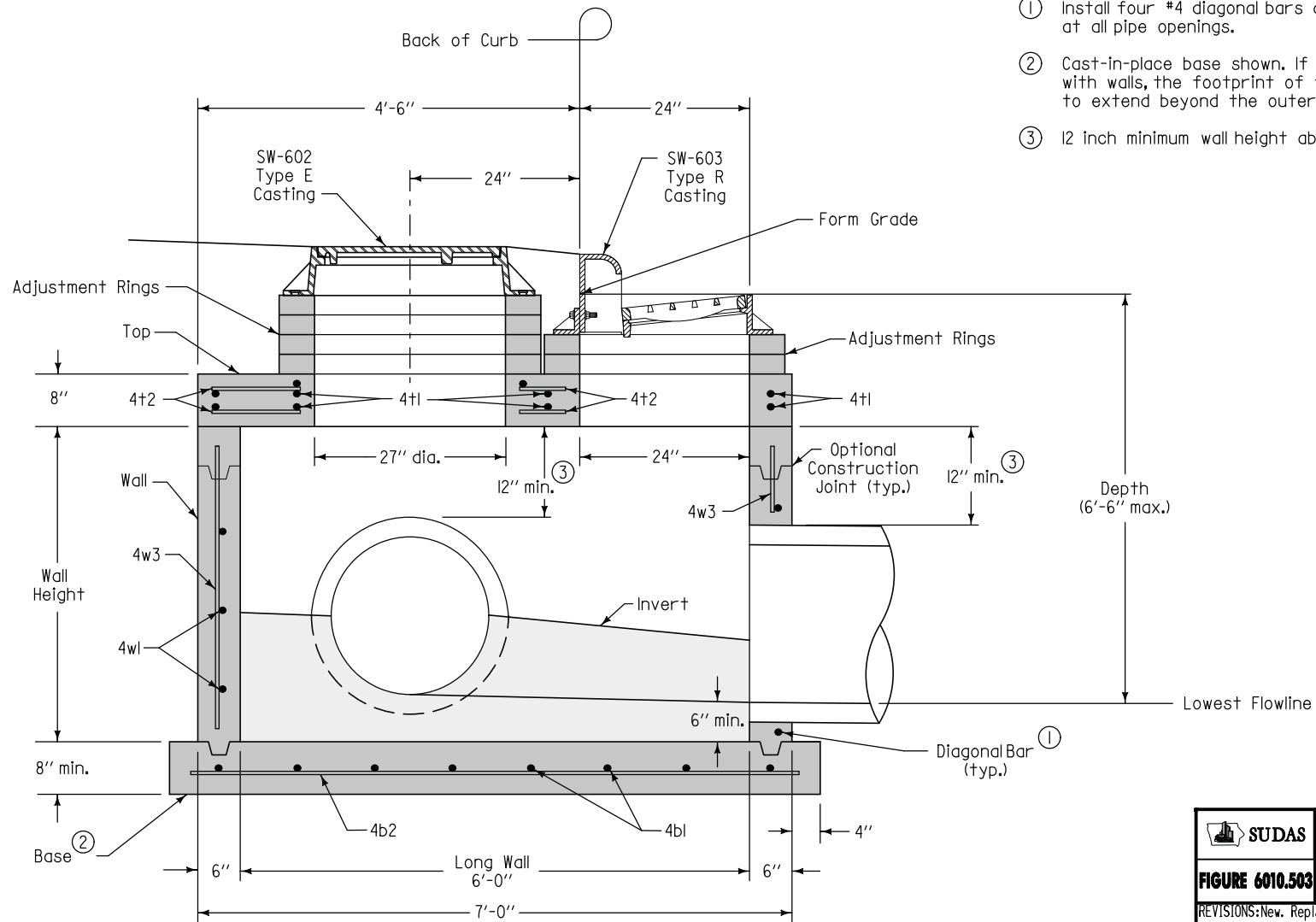


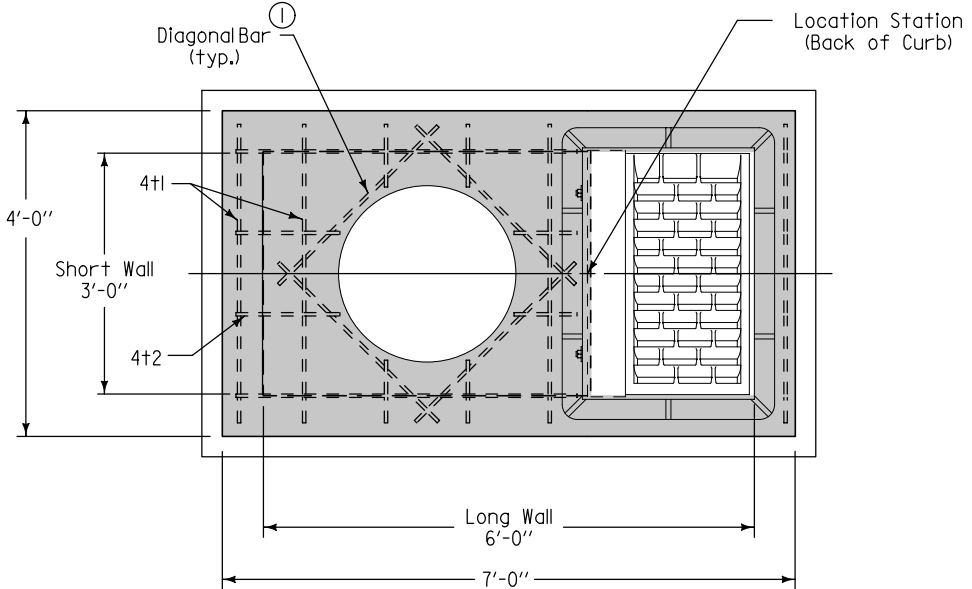


- ① Install four #4 diagonal bars at manhole opening and at all pipe openings.
- ② Cast-in-place base shown. If base is precast integral with walls, the footprint of the base is not required to extend beyond the outer edge of the walls.
- ③ 12 inch minimum wall height above all pipes.

TYPICAL SECTION

 SUDAS	 Iowa Department of Transportation	REVISION	
		NEW	04-21-09
		FIGURE 6010.503	
		STANDARD ROAD PLAN	
		SW-503	
		SHEET 1 of 2	
REVISIONS: New. Replaces SUDAS Type "M-C" Intake.			
 SUDAS DIRECTOR		 DESIGN METHODS ENGINEER	
SINGLE GRATE INTAKE WITH MANHOLE			

① Install four #4 diagonal bars at manhole opening and at all pipe openings.



PLAN

FIGURE 6010.503 SHEET 2 OF 2

REINFORCING BAR LIST						
Mark	Size	Location	Shape	Count	Length	Spacing
4t1	4	Top	—	12	3'-8"	12"
4t2	4	Top	—	8	4'-2"	12"
4b1	4	Base	—	7	4'-2"	13"
4b2	4	Base	—	5	7'-2"	10"
4w1	4	Short Walls	—	Varies	3'-8"	12"
4w2	4	Long Walls	—	Varies	6'-8"	12"
4w3	4	Walls	—	18	Wall Height minus 4"	13"

MAXIMUM PIPE DIAMETERS		
Pipe Location	Precast Structure	Cast-in-place Structure
Short Wall	24"	30"
Long Wall	30"	36"

		REVISION	
		NEW	04-21-09
		SW-503	
FIGURE 6010.503 STANDARD ROAD PLAN		SHEET 2 of 2	
REVISIONS: New. Replaces SUDAS Type "M-C" Intake.			
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SINGLE GRATE INTAKE WITH MANHOLE			