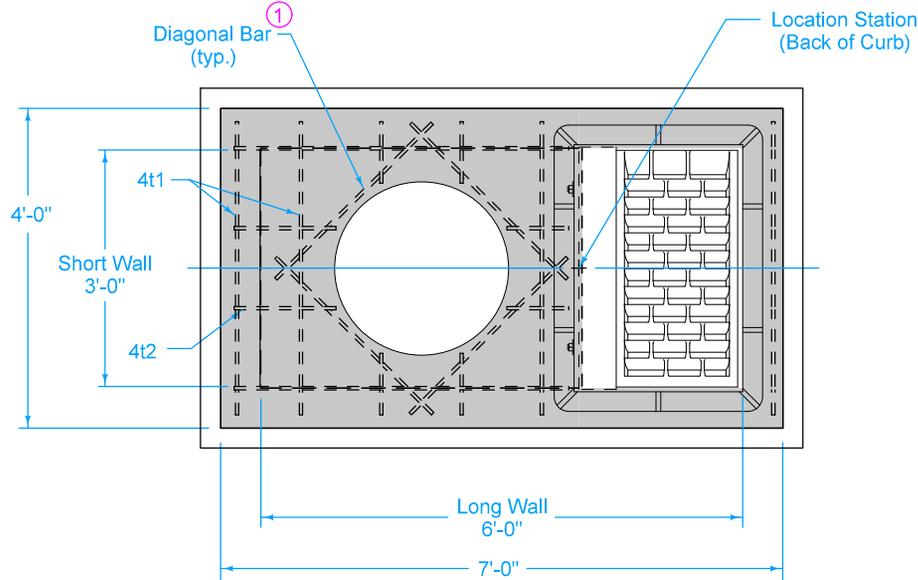




① Install four #4 diagonal bars at manhole opening and at all pipe openings.



PLAN

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"

SUDAS	IOWADOT	REVISION
		2   04-17-18
FIGURE 6010.503	STANDARD ROAD PLAN	<b>SW-503</b>
SHEET 2 of 2		
<small>REVISIONS: Changed 'Invert' callout to 'Concrete Fillet'. Updated the work and Iowa DOT and SUDAS logo.</small>		
Paul D. Wigand SUDAS DIRECTOR		
Brian Smith DESIGN METHODS ENGINEER		
<b>SINGLE GRATE INTAKE WITH MANHOLE</b>		