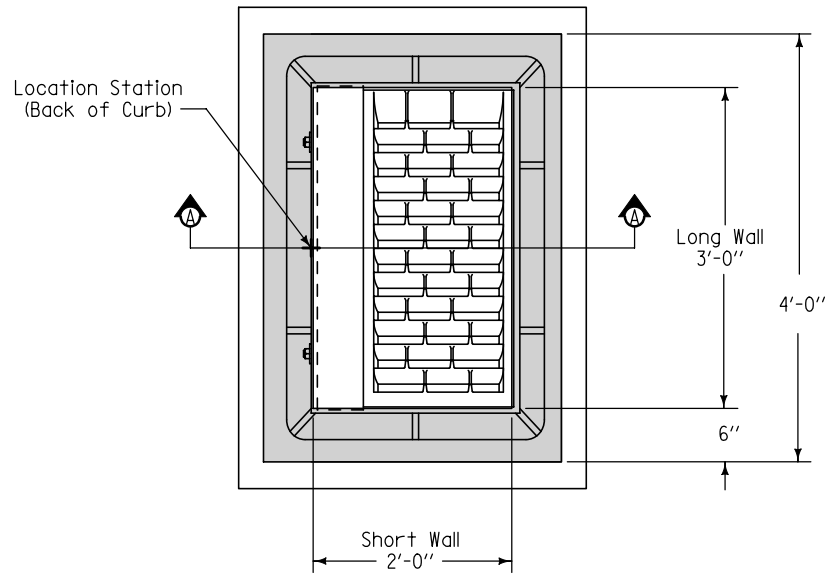


SECTION A-A

- ① Install four #4 diagonal bars at all pipe openings.
- ② SW-603 Type R unless Type Q is specified in the contract documents.
- ③ 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.
- ④ 12 inch minimum wall height above all pipes.



PLAN

FIGURE 6010.501 SHEET 10F-1

REINFORCING BAR LIST						
Mark	Size	Location	Shape	Length	Count	Spacing
4w1	4	Walls	—	Wall Height minus 4"	14	12"
4w2	4	Long Walls	—	3'-8"	Varies	12"
4w3	4	Short Walls	—	2'-8"	Varies	12"
4b1	4	Base	—	4'-2"	4	10"
4b2	4	Base	—	3'-2"	5	10"

MAXIMUM PIPE DIAMETERS		
Pipe Location	Precast Structure	Cast-in-place Structure
Short Wall	15"	18"
Long Wall	24"	30"

SUDAS	Iowa Department of Transportation	REVISION
		NEW 04-21-09
FIGURE 6010.501	STANDARD ROAD PLAN	SW-501
		SHEET 1 of 1
REVISIONS: New. Replaces SUDAS Type "M-A" Intake.		
SUDAS DIRECTOR		DESIGN METHODS ENGINEER
SINGLE GRATE INTAKE		