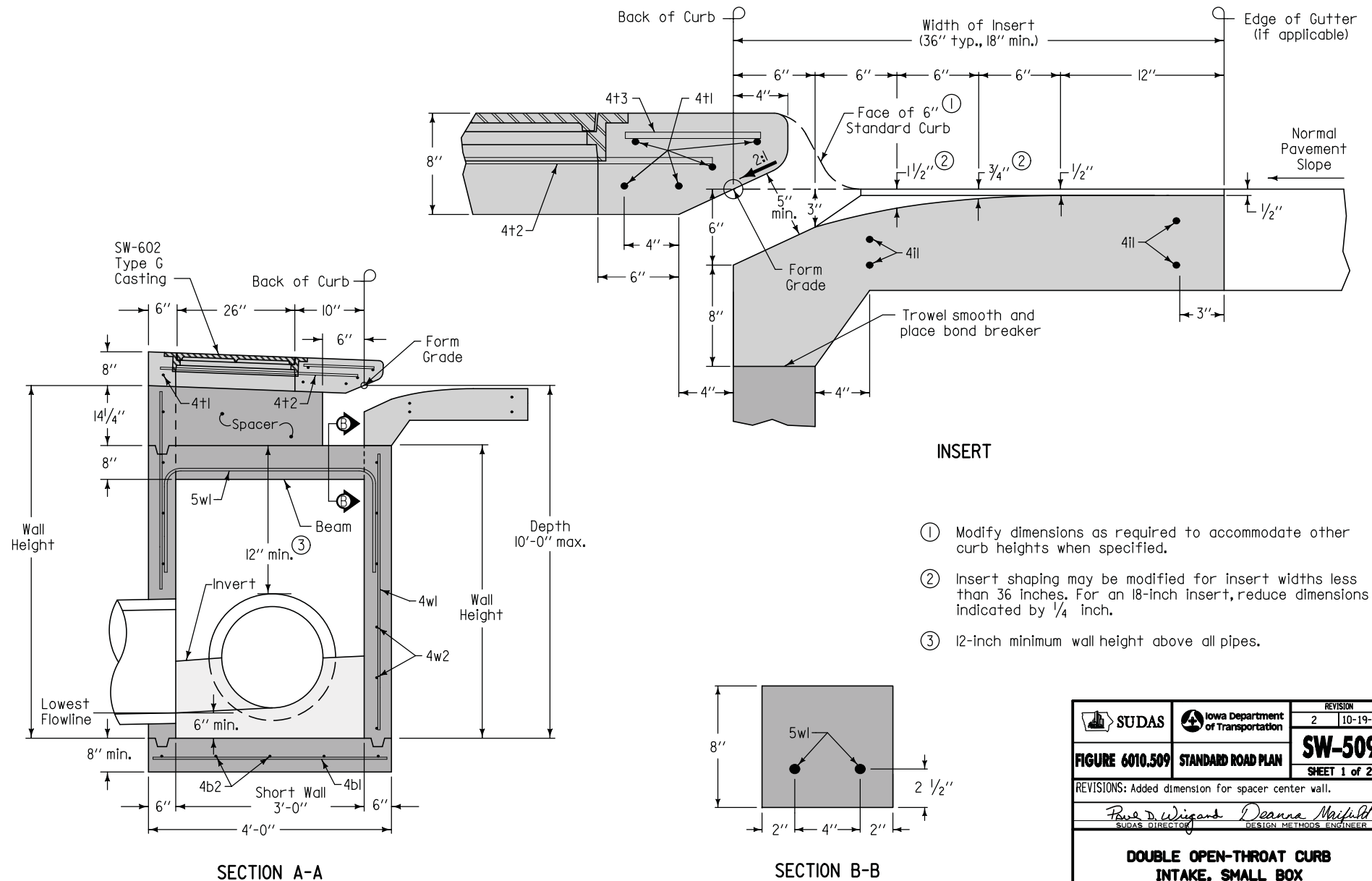
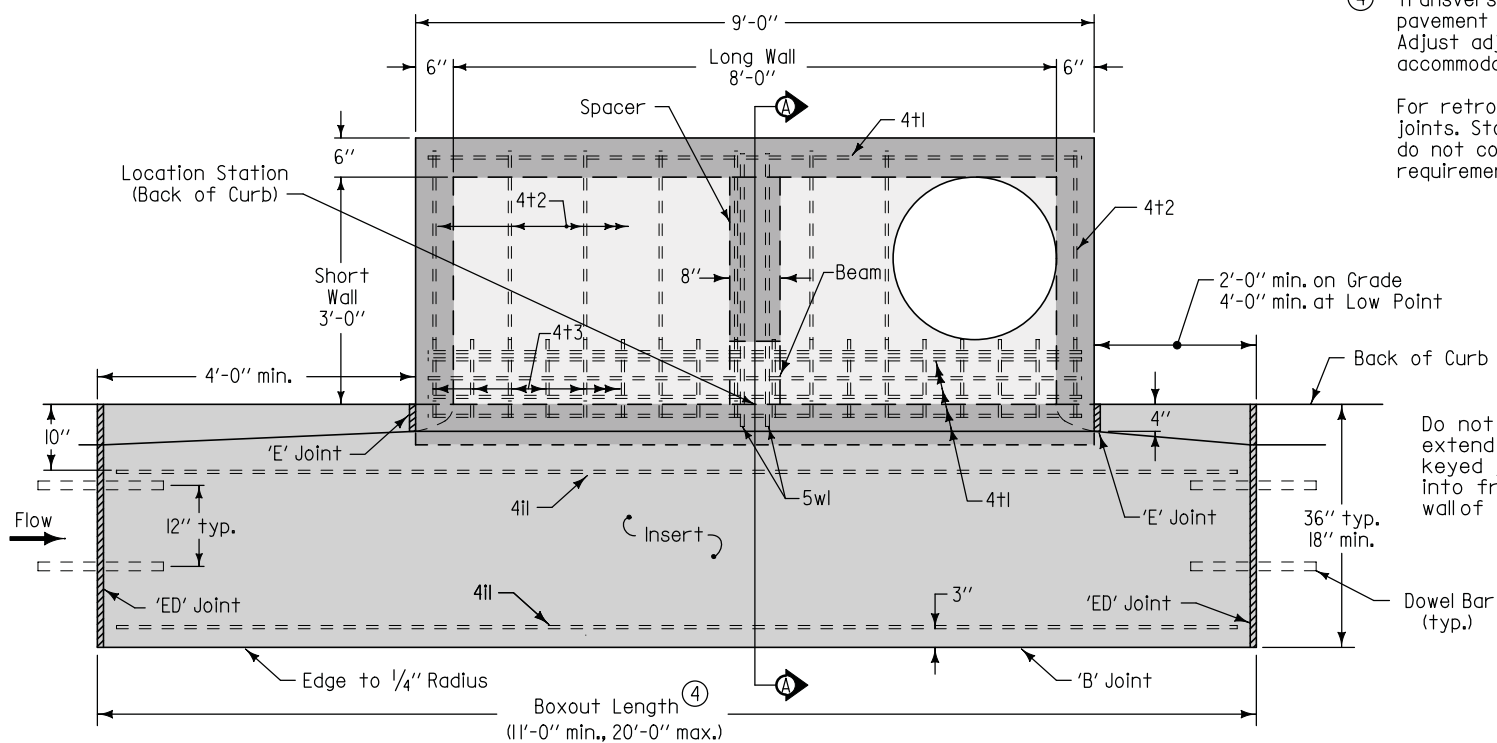




 SUDAS	 Iowa Department of Transportation	REVISION		
		2	10-19-10	
FIGURE 6010.509		SW-509		
STANDARD ROAD PLAN				
		SHEET 1 of 2		
REVISIONS: Added dimension for spacer center wall.				
 SUDAS DIRECTOR		 DESIGN METHODS ENGINEER		
DOUBLE OPEN-THROAT CURB INTAKE, SMALL BOX				



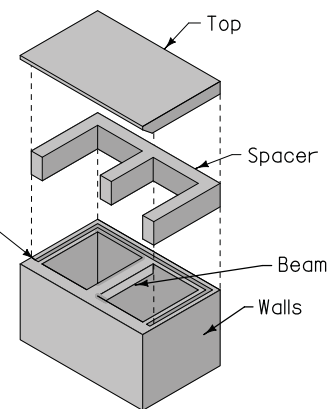
PLAN

- ④ Transverse joint spacing on new concrete pavement is controlled by the intake boxout. Adjust adjacent joint spacing as required to accommodate boxouts.

For retrofit intakes, match existing pavement joints. Stop any transverse pavement joints that do not conform to the minimum spacing requirements at the edge of the insert area.

2'-0" min. on Grade
4'-0" min. at Low Point

Do not extend
keyed joint
into front
wall of box

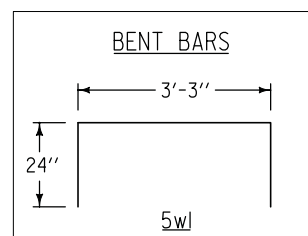


ISOMETRIC

REINFORCING BAR LIST

Mark	Size	Location	Shape	Count	Length	Spacing
4b1	4	Base	—	9	3'-6"	12"
4b2	4	Base	—	5	8'-6"	10"
4i1	4	Insert	—	4	Boxout Length minus 8"	See Insert
4t1	4	Top	—	6	8'-6"	See Plan
4t2	4	Top	—	8	3'-6"	12"
4t3	4	Top	—	18	10"	6"
4w1	4	Walls	—	22	Wall Height minus 4"	13"
4w2	4	Long Walls	—	Varies	4'-8"	12"
4w3	4	Short Walls	—	Varies	3'-8"	12"
5w1	5	Beam	⌈	2	7'-3"	4"

BENT BARS



MAXIMUM PIPE DIAMETERS

Pipe Location	Precast Structure	Cast-in-place Structure
Short Wall	24"	30"
Long Wall	60"	66"

SUDAS Iowa Department of Transportation	REVISION	1	10-20-09
	FIGURE 6010.509 STANDARD ROAD PLAN SW-509 SHEET 2 of 2		
	REVISIONS: Adjusted depth line, circle note 3, and shading. Removed minimum depth. Renamed standard.		
SUDAS DIRECTOR		Deanna Mairfeld DESIGN METHODS ENGINEER	
DOUBLE OPEN-THROAT CURB INTAKE, SMALL BOX			