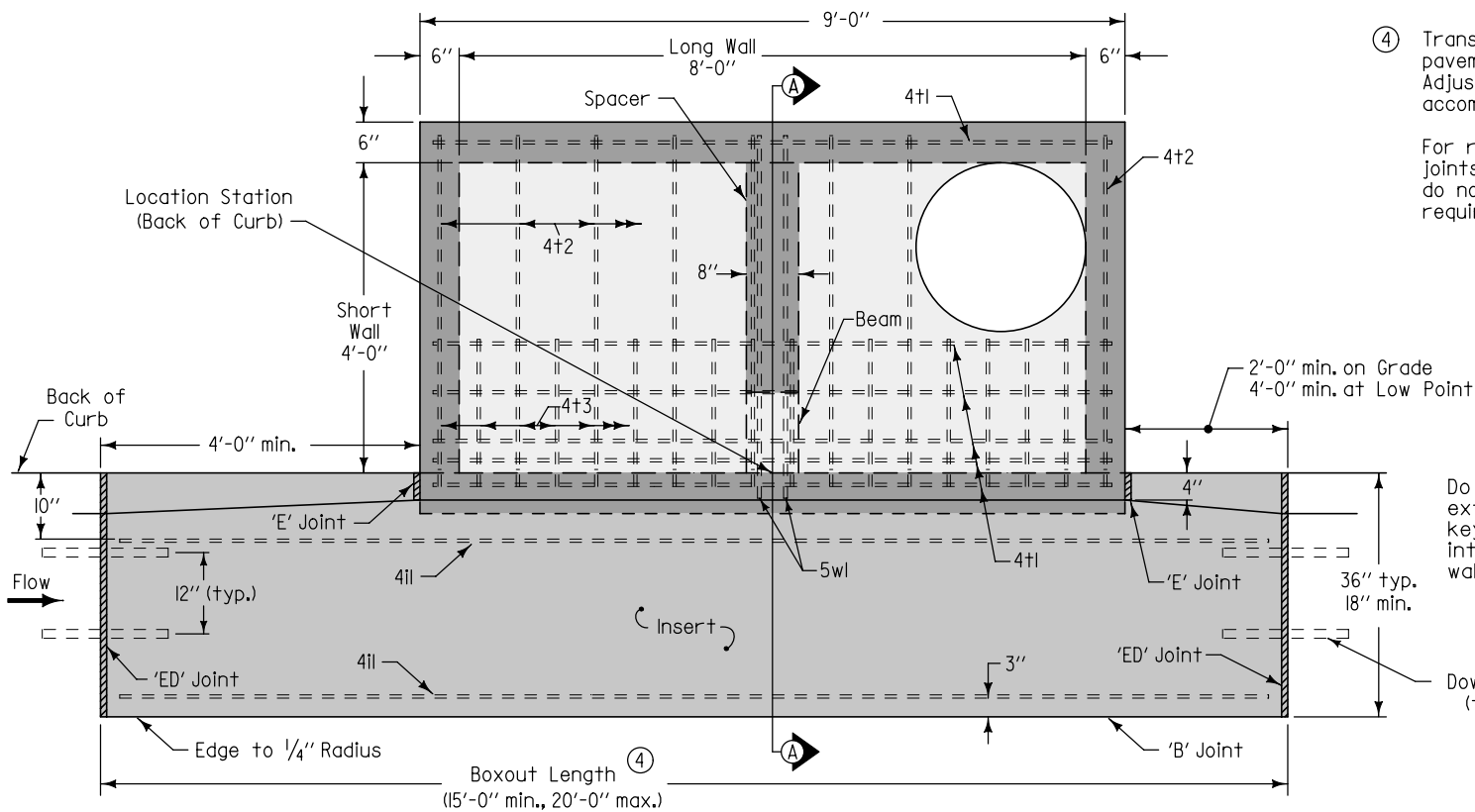


SUDAS	Iowa Department of Transportation	REVISION
		NEW 04-21-09
FIGURE 6010.510	STANDARD ROAD PLAN	SW-510
		SHEET 1 of 2
REVISIONS: New. Replaces SUDAS Type "M-1" (Modified) Intake. Will replace RA-43.		
SUDAS DIRECTOR		DESIGN METHODS ENGINEER
DOUBLE OPEN-THROAT INTAKE, LARGE BOX		

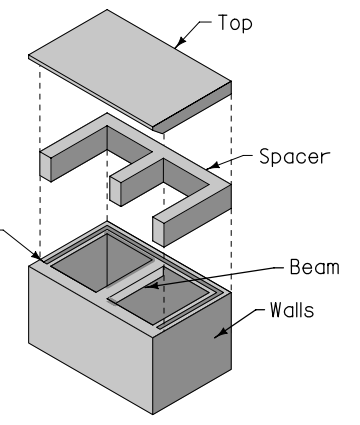


④ Transverse joint spacing on new concrete pavement is controlled by the intake boxout. Adjust adjacent joint spacing as required to accommodate boxouts.

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.

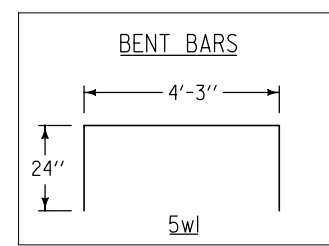
2'-0" min. on Grade
4'-0" min. at Low Point

Do not extend keyed joint into front wall of box
36" typ. 18" min.
Dowel Bar (typ.)



ISOMETRIC

PLAN



MAXIMUM PIPE DIAMETERS		
Pipe Location	Precast Structure	Cast-in-place Structure
Short Wall	30"	36"
Long Wall	60"	66"

REINFORCING BAR LIST						
Mark	Size	Location	Shape	Count	Length	Spacing
4bl	4	Base	—	9	4'-6"	12"
4b2	4	Base	—	6	8'-6"	11"
4il	4	Insert	—	4	Boxout Length minus 8"	See Insert
4tl	4	Top	—	7	8'-6"	See Plan
4t2	4	Top	—	8	4'-4"	12"
4t3	4	Top	—	18	1'-10"	6"
4wl	4	Walls	—	24	Wall Height minus 4"	13"
4w2	4	Long Walls	—	Varies	4'-8"	12"
4w3	4	Short Walls	—	Varies	8'-8"	12"
5wl	5	Beam	U	2	8'-3"	4"

FIGURE 6010.510 SHEET 2 OF 2

SUDAS	Iowa Department of Transportation	REVISION
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FIGURE 6010.510	STANDARD ROAD PLAN	SW-510
		SHEET 2 of 2
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