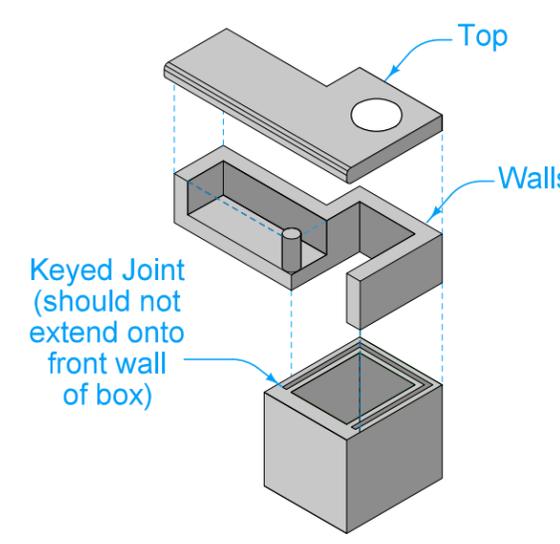


Extension unit may be used on either or both sides of intake. Details are similar when extension unit is on the opposite side. For joint details, refer to PV-101.

- ① Match gutter slope. Drain to well.
- ② Other lengths of opening may be constructed by varying the length of the extension and the rebar.
- ③ Includes 2 inches for 'ED' Joints.
- ④ 12 inch minimum wall height above all pipes.

MAXIMUM PIPE DIAMETERS	
Precast Structure	Cast-in-place Structure
30"	36"



ISOMETRIC INTAKE WELL, WALLS AND TOP

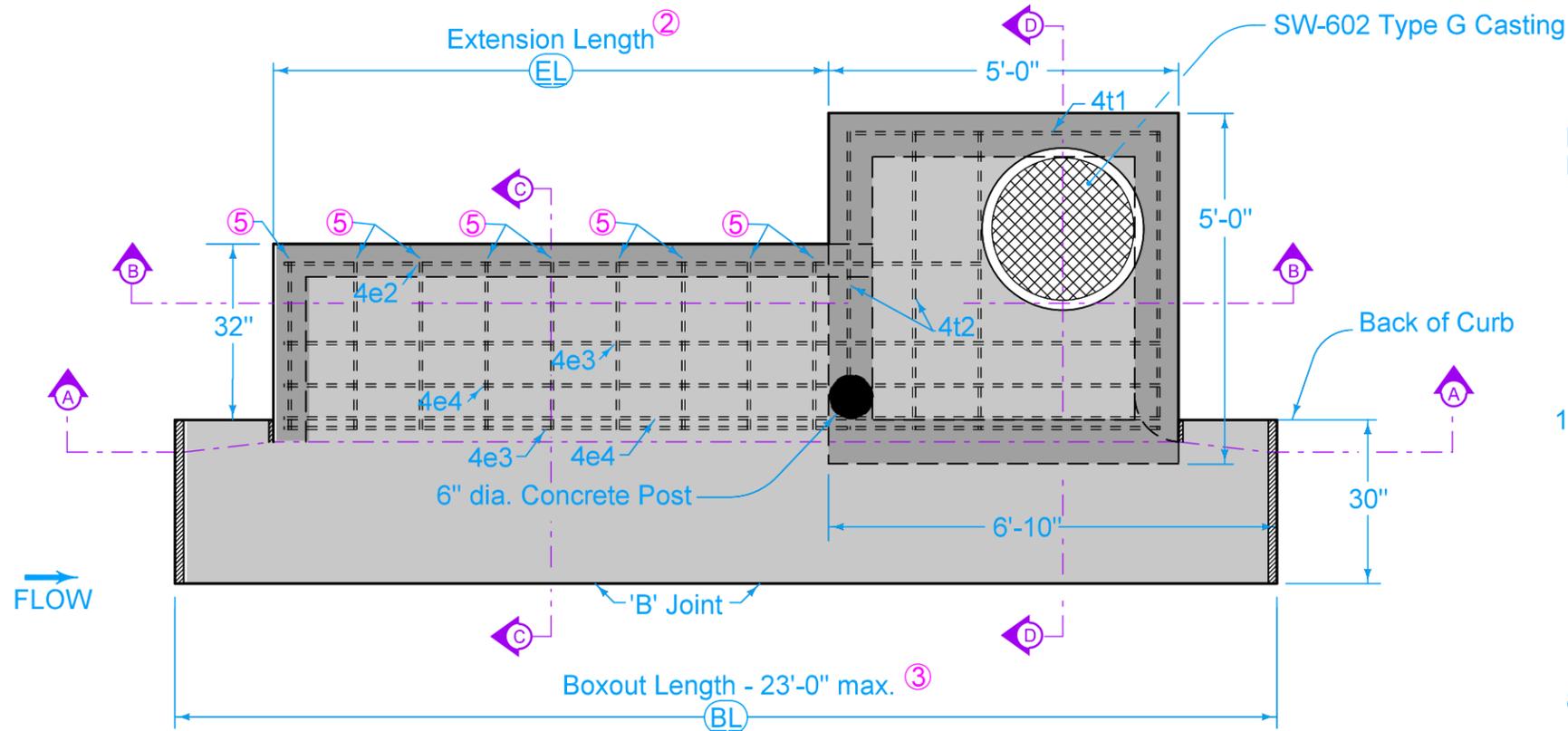
	12'-0"	14'-0"	16'-0"	18'-0"
(LO) Length of Curb Opening	12'-0"	14'-0"	16'-0"	18'-0"
(EL) Extension Length	7'-10"	9'-10"	11'-10"	13'-10"
(BL) Minimum Boxout Length	16'-0"	18'-0"	20'-0"	22'-0"

		REVISION
		7 10-21-25
FIGURE 6010.545	STANDARD ROAD PLAN	SW-545
		SHEET 1 of 4

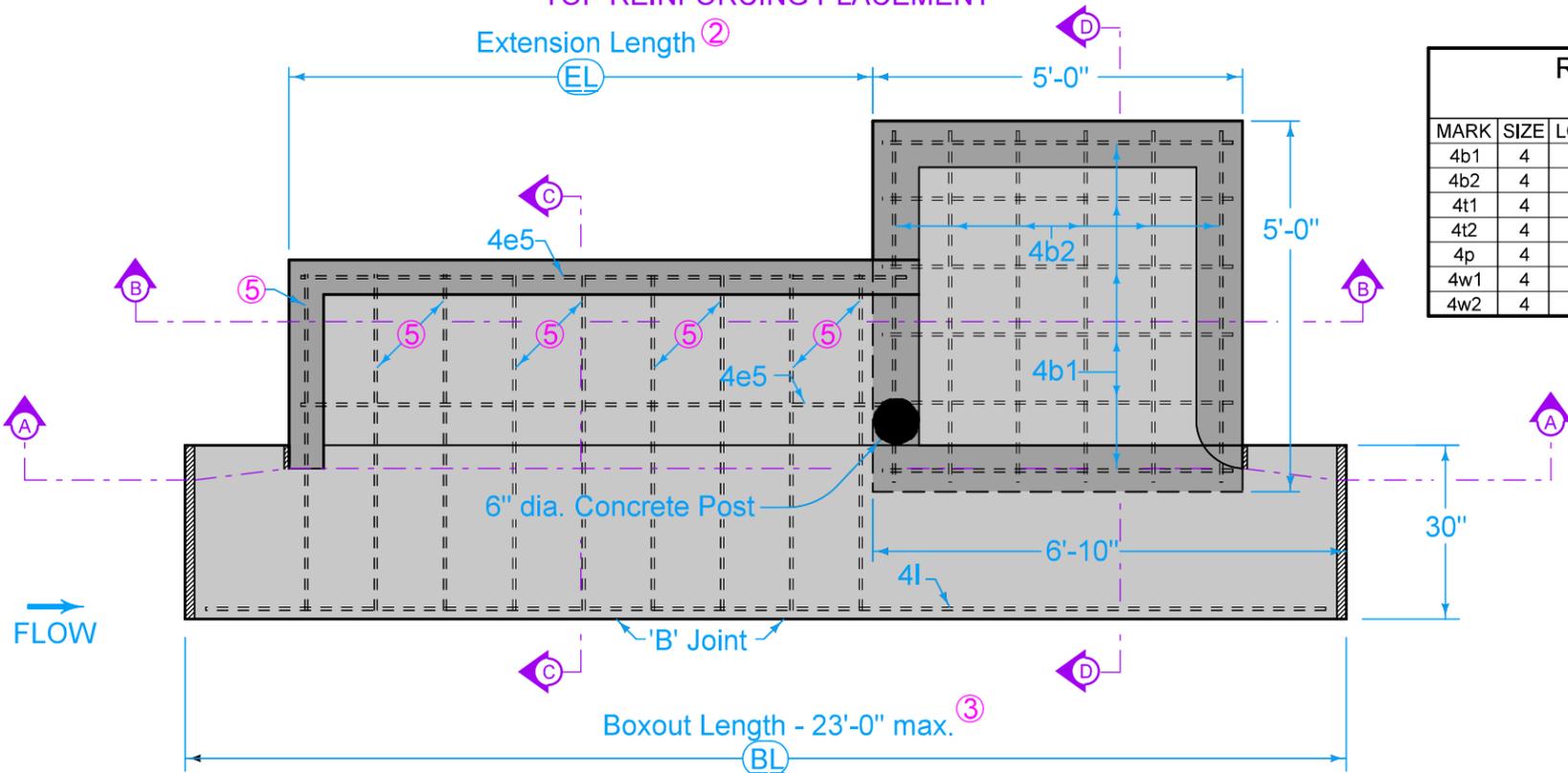
REVISIONS: Updated Sudas and IDOT Logos.

SINGLE OPEN-THROAT CURB INTAKE WITH EXTENDED OPENING

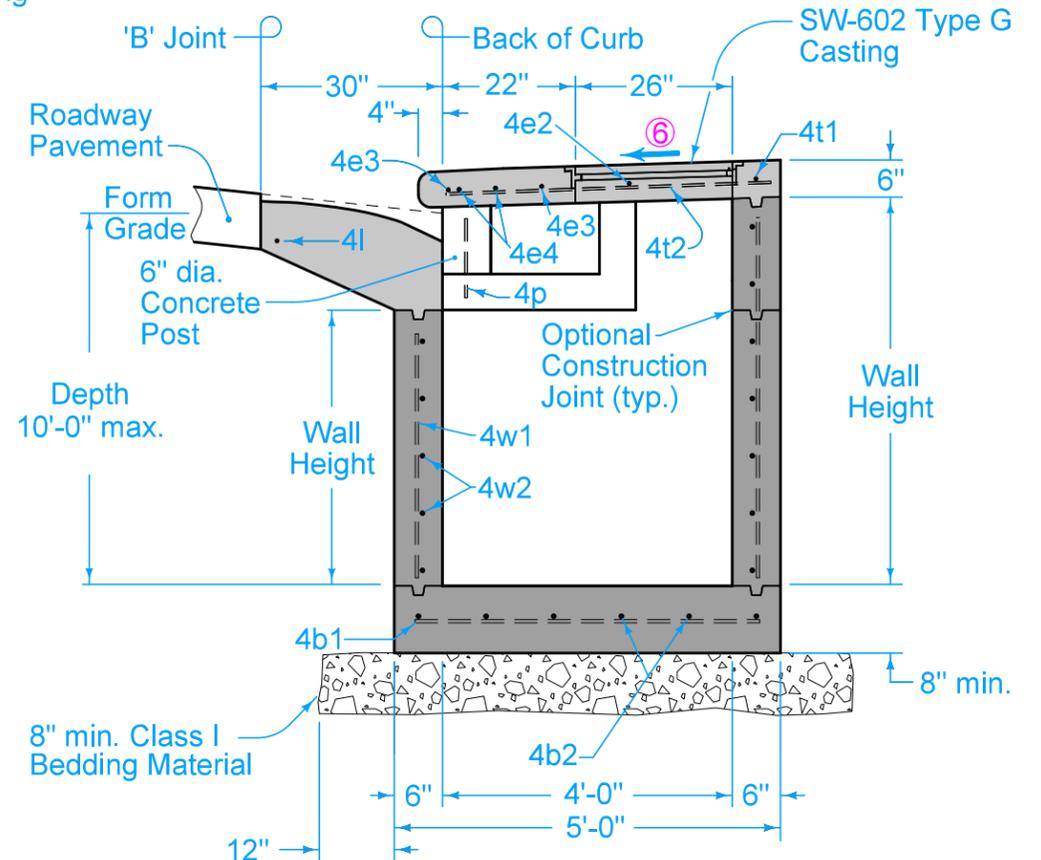
FIGURE 6010.545 SHEET 1 OF 4



PLAN TOP REINFORCING PLACEMENT



PLAN BOTTOM REINFORCING PLACEMENT



SECTION D-D

REINFORCING BAR LIST Intake Well					
MARK	SIZE	LOCATION	NO.	LENGTH	SPACING
4b1	4	Base	6	4'-6"	11"
4b2	4	Base	6	4'-6"	11"
4t1	4	Top	1	4'-8"	12"
4t2	4	Top	4	4'-3"	See Detail
4p	4	Post	1	13"	See Detail
4w1	4	Walls	16	Wall Height minus 4"	14"
4w2	4	Walls	Varies	4'-8"	12"

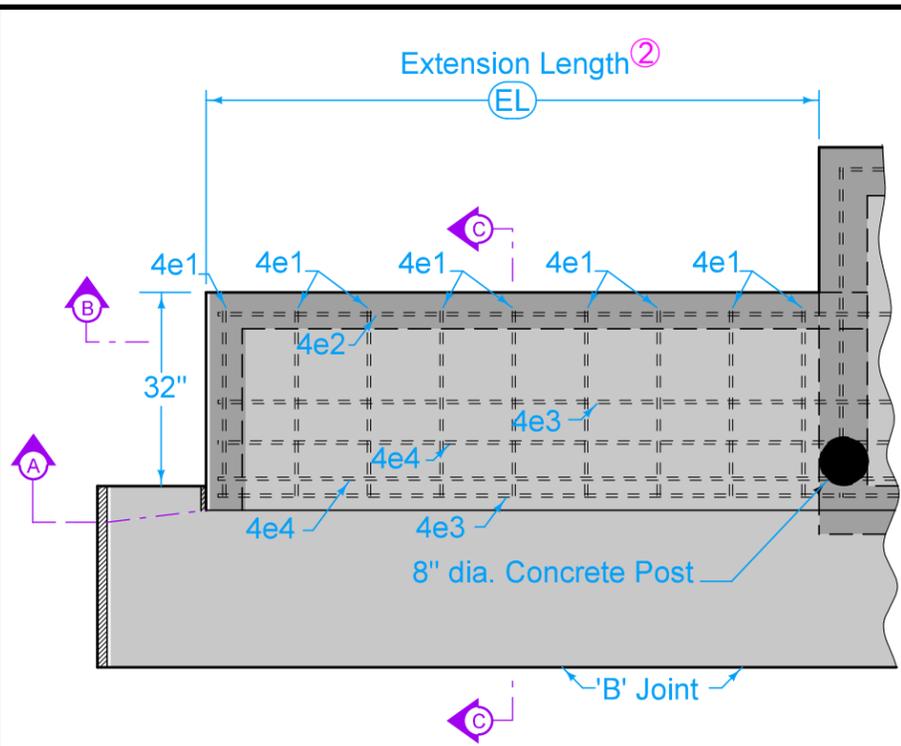
- ② Other lengths of opening may be constructed by varying the length of the extension and the rebar.
- ③ Includes 2 inches for 'ED' Joints.
- ⑤ 4e1 or 4e6. See Sheets 3 and 4.
- ⑥ Slope of 1.5% or as specified in the contract documents.

FIGURE 6010.545 SHEET 2 OF 4

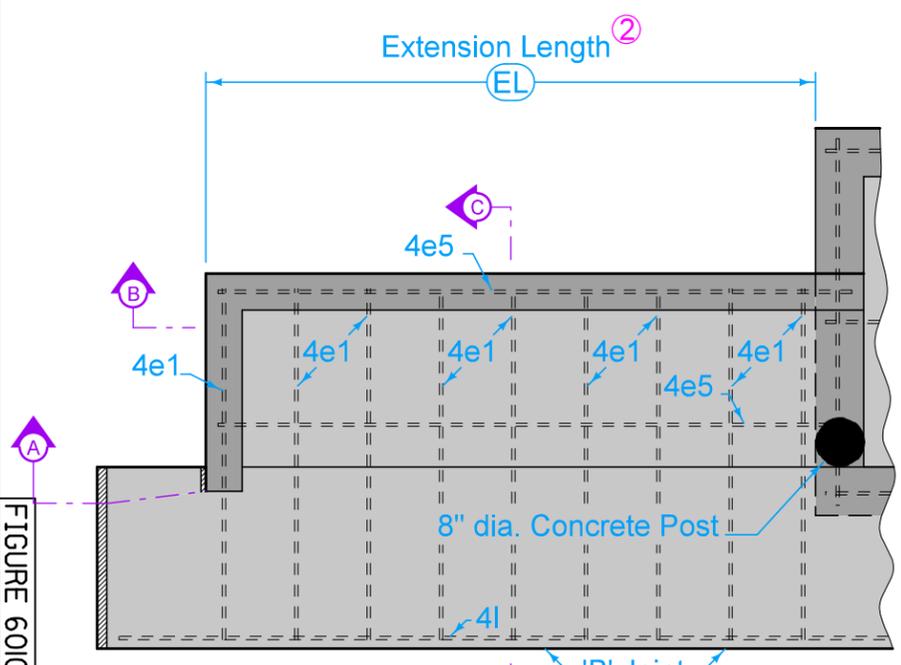
		REVISION	
		7	10-21-25
FIGURE 6010.545	STANDARD ROAD PLAN	SW-545 SHEET 2 of 4	

REVISIONS: Updated Sudas and IDOT Logos.

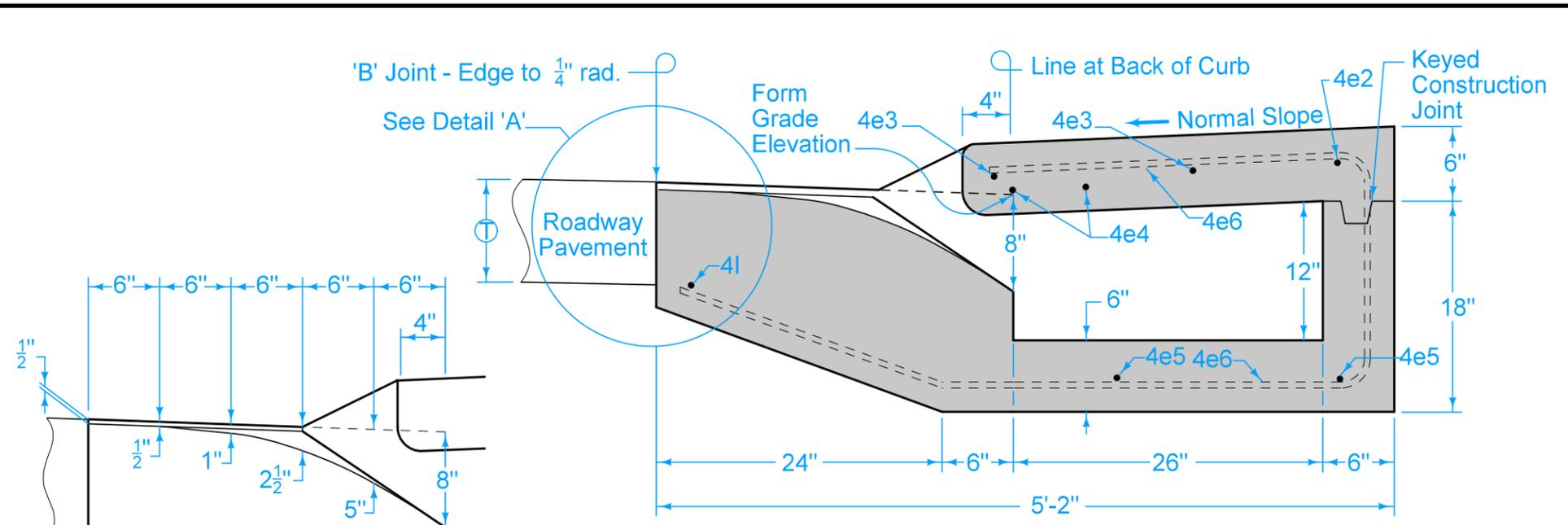
**SINGLE OPEN-THROAT
 CURB INTAKE WITH
 EXTENDED OPENING**



PLAN
TOP OF EXTENSION REINFORCING PLACEMENT



PLAN
BOTTOM OF EXTENSION REINFORCING PLACEMENT



SECTION C-C
(4 Inch Sloped Curb)



INSERT DETAIL
(4 Inch Sloped Curb)

REINFORCING BAR LIST (LO) = 12'-0"

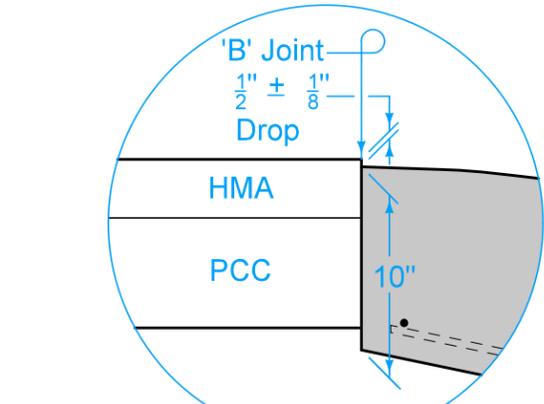
MARK	SIZE	LOCATION	NO.	LENGTH	WEIGHT	SPACING
4e2	4	Top	1	10'-0"	6.7	
4e3	4	Top	2	12'-9"	17.0	15 1/2"
4e4	4	Top	2	12'-9"	17.0	6"
4e5	4	Base	2	8'-2"	10.9	22"
4e6	4	Top/Base	9	9'-3 1/2"	56.9	12"
4I*	4	Insert	1	15'-10"	10.6	
* With 16'-6" Boxout.				Total	119.0 lbs.	

REINFORCING BAR LIST (LO) = 14'-0"

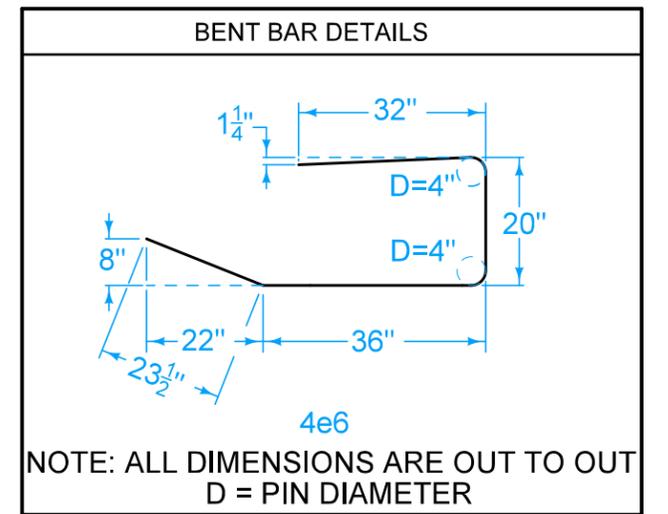
MARK	SIZE	LOCATION	NO.	LENGTH	WEIGHT	SPACING
4e2	4	Top	1	12'-0"	8.0	
4e3	4	Top	2	14'-9"	19.7	15 1/2"
4e4	4	Top	2	14'-9"	19.7	6"
4e5	4	Base	2	10'-2"	13.6	22"
4e6	4	Top/Base	11	9'-3 1/2"	69.5	12"
4I*	4	Insert	1	17'-10"	11.9	
* With 18'-6" Boxout.				Total	142.3 lbs.	

REINFORCING BAR LIST (LO) = 16'-0"

MARK	SIZE	LOCATION	NO.	LENGTH	WEIGHT	SPACING
4e2	4	Top	1	14'-0"	9.3	
4e3	4	Top	2	16'-9"	22.4	15 1/2"
4e4	4	Top	2	16'-9"	22.4	6"
4e5	4	Base	2	12'-2"	16.2	22"
4e6	4	Top/Base	13	9'-3 1/2"	82.1	12"
4I*	4	Insert	1	19'-10"	13.2	
* With 20'-6" Boxout.				Total	165.5 lbs.	



DETAIL 'A'
Use when adjacent pavement
is HMA or composite.



NOTE: ALL DIMENSIONS ARE OUT TO OUT
D = PIN DIAMETER

② Other lengths of opening may be constructed by varying the length of the extension and the rebar.

FIGURE 6010.545 SHEET 4 OF 4

4 INCH SLOPED CURB

		REVISION	
		7	10-21-25
FIGURE 6010.545		STANDARD ROAD PLAN	
		SW-545	
		SHEET 4 of 4	
REVISIONS: Updated Sudas and IDOT Logos.			
 SUDAS DIRECTOR		 DESIGN METHODS ENGINEER	
SINGLE OPEN-THROAT CURB INTAKE WITH EXTENDED OPENING			