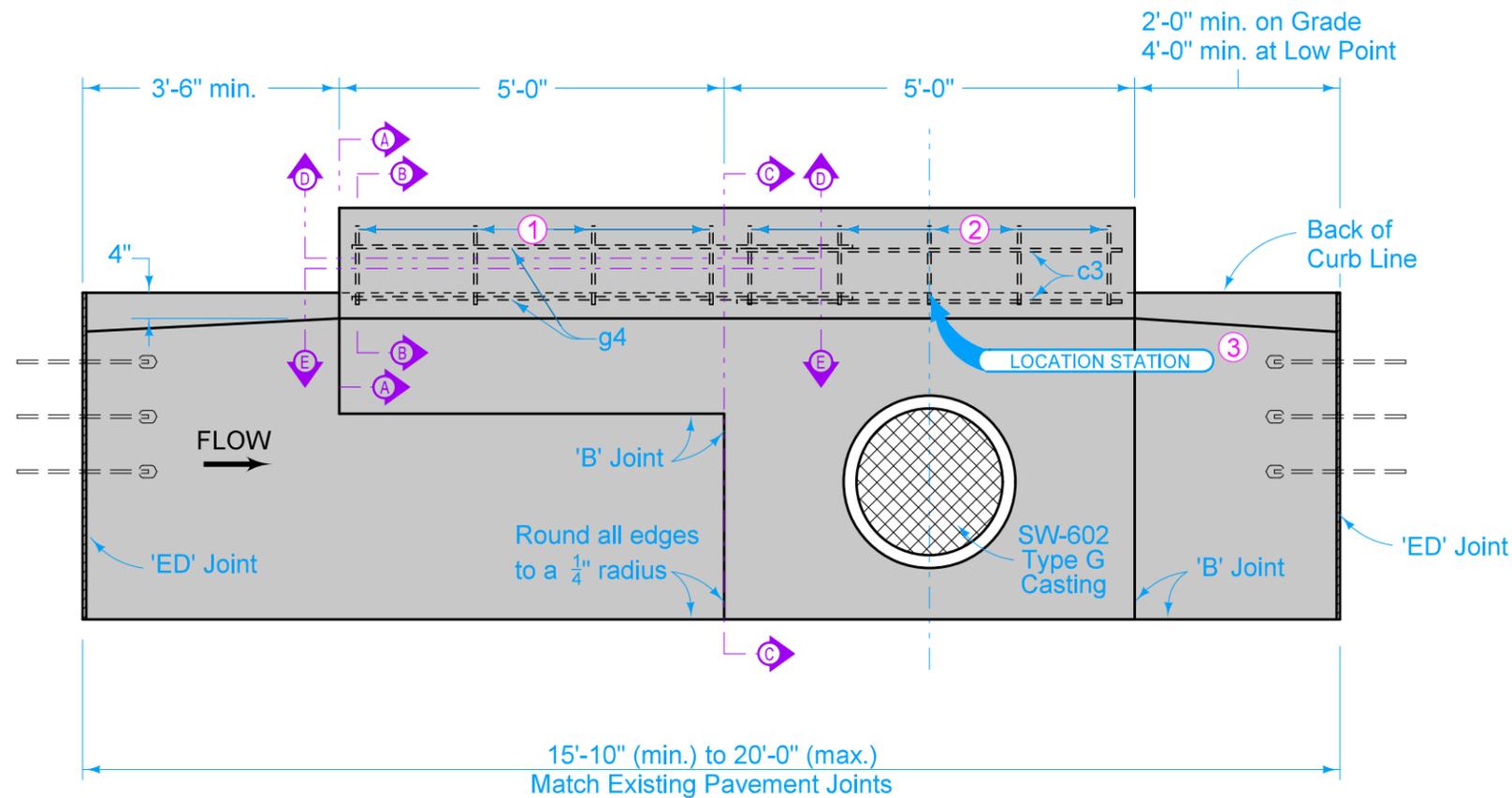


DESIGNER INFORMATION

Extension unit may be used on either or both sides of SW-541 intakes. Details are similar when extension unit is on the opposite side.

- ① g3 for 6 inch standard curb; g5 for 4 inch sloped curb.
- ② c1 for 6 inch standard curb; c2 for 4 inch sloped curb. See SW-541 for reinforcing.
- ③ The location station is where the centerline of intake meets the back of the curb line.



PLAN
(SW-542 EXTENSION AND SW-541 INTAKE)

Placing sequence: 1. Base; 2. Walls and Extension; 3. Top; 4. Insert

REINFORCING BAR LIST							
BAR	SIZE	LOCATION	SHAPE	NO.	LENGTH	WEIGHT	SPACING
b2	4	Intake Wall		3	2'-6"	5.0	9"
f1	4	Bottom		3	4'-9"	9.5	9"
f2	4	Bottom		4	1'-7"	4.2	18"
g1	4	Wall		5	Varies*	Varies*	12"
g2	4	Wall		1	4'-8"	3.1	-
g3	4	Top		4	Varies**	Varies**	18"
g4	4	Top		3	6'-4"	12.7	-
g5	4	Top		4	Varies**	Varies**	18"

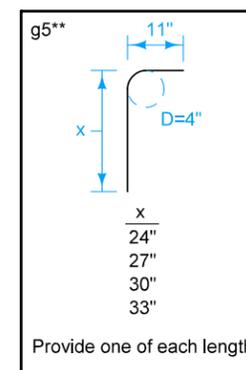
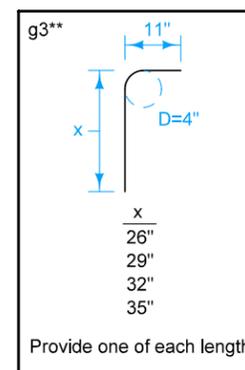
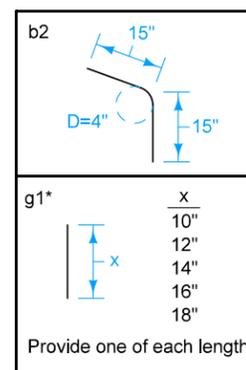
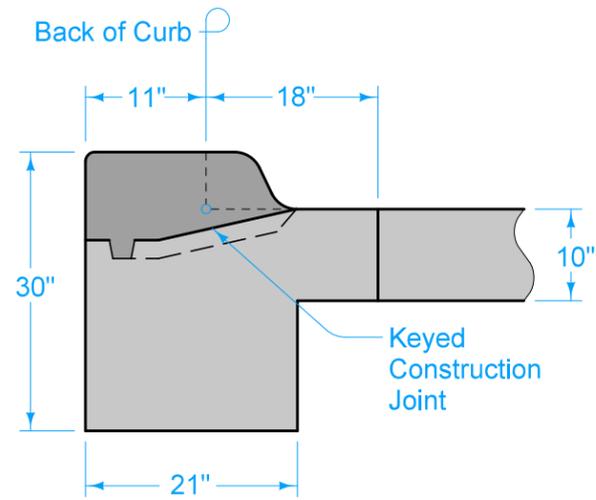
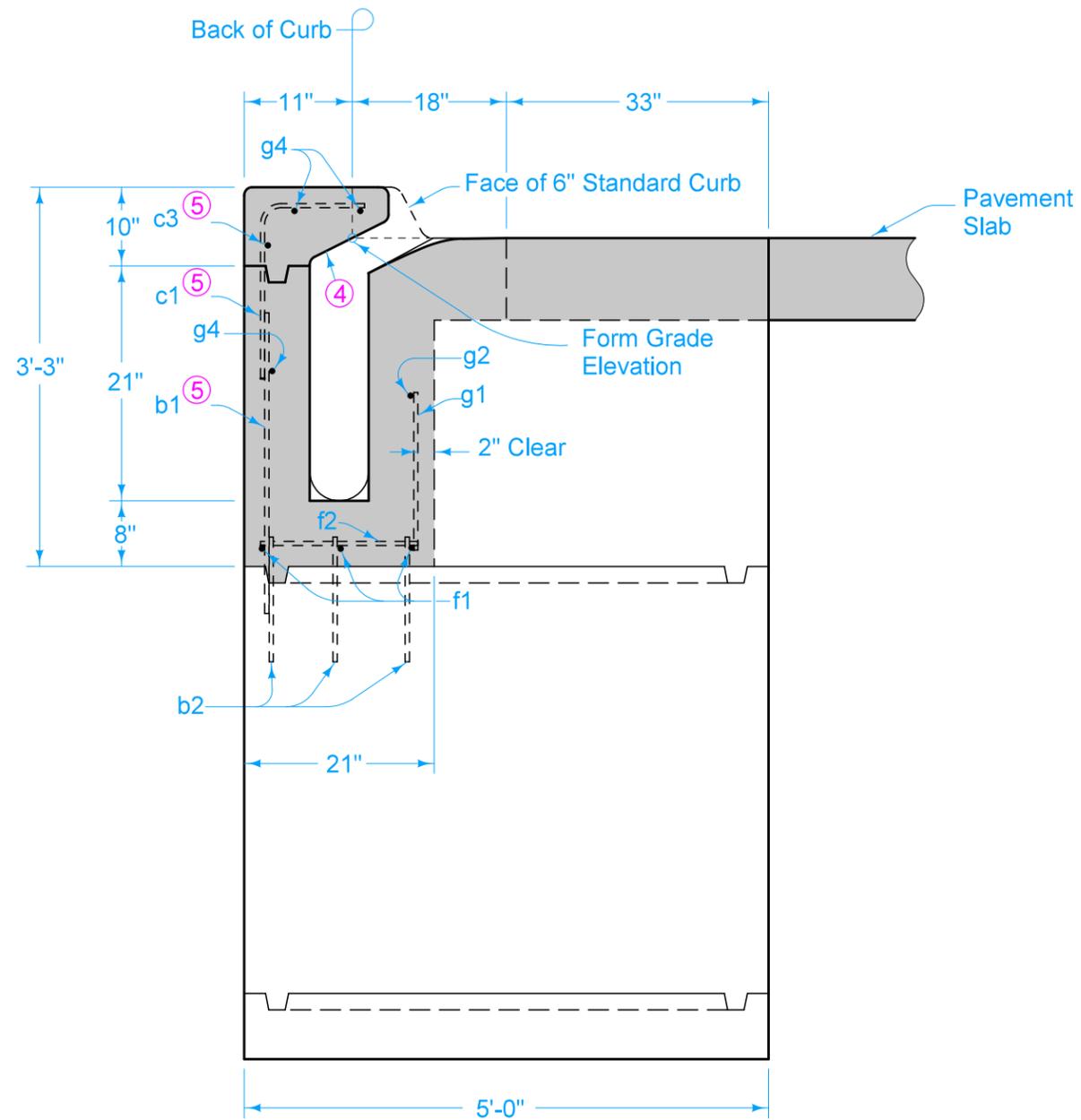


FIGURE 6010.542 SHEET 1 OF 4

		REVISION	
		6	10-21-25
FIGURE 6010.542	STANDARD ROAD PLAN	SW-542	
SHEET 1 of 4			
REVISIONS: Updated Sudas and IDOT Logos.			
SUDAS DIRECTOR		DESIGN METHODS ENGINEER	
EXTENSION UNIT FOR OPEN-THROAT CURB INTAKE UNDER PAVEMENT			

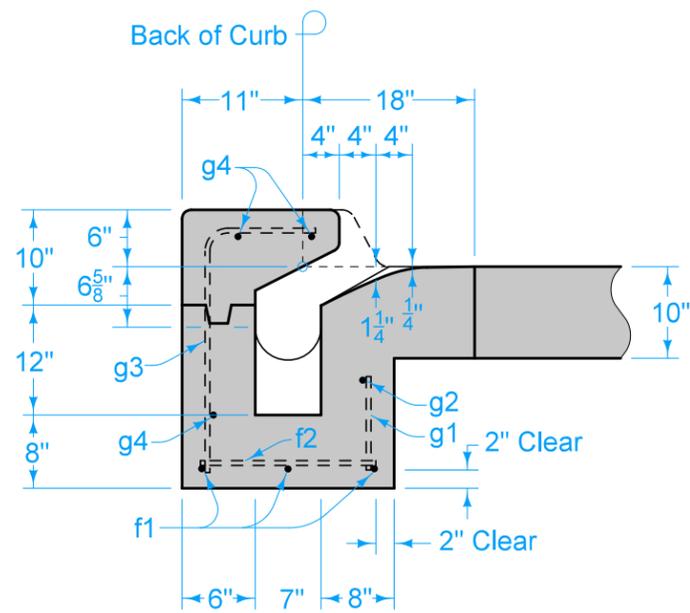


SECTION A-A



SECTION C-C

- ④ 2:1 Slope (Horizontal:Vertical)
- ⑤ See SW-541 for reinforcing.



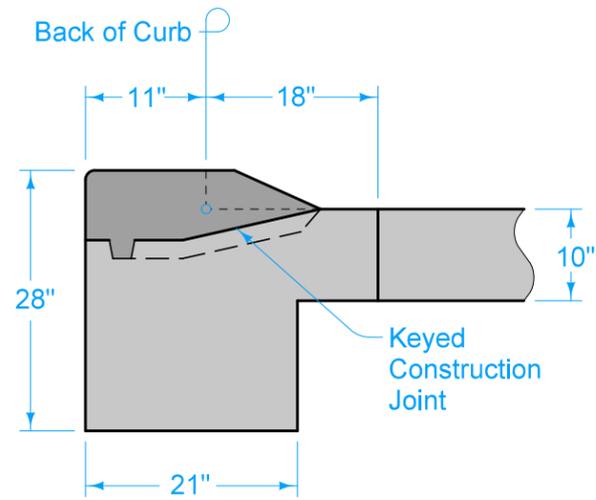
SECTION B-B

6 INCH STANDARD CURB

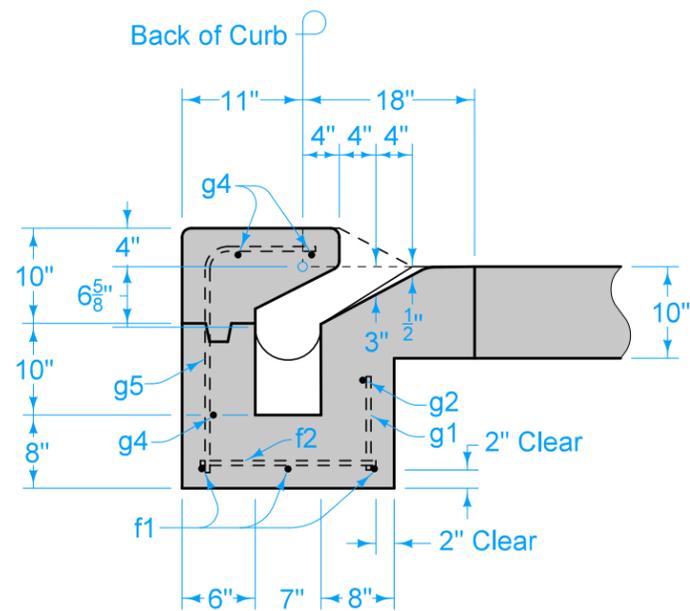
		REVISION	
		6	10-21-25
FIGURE 6010.542	STANDARD ROAD PLAN	SW-542	
		SHEET 2 of 4	

REVISIONS: Updated Sudas and IDOT Logos.	
 SUDAS DIRECTOR	 DESIGN METHODS ENGINEER

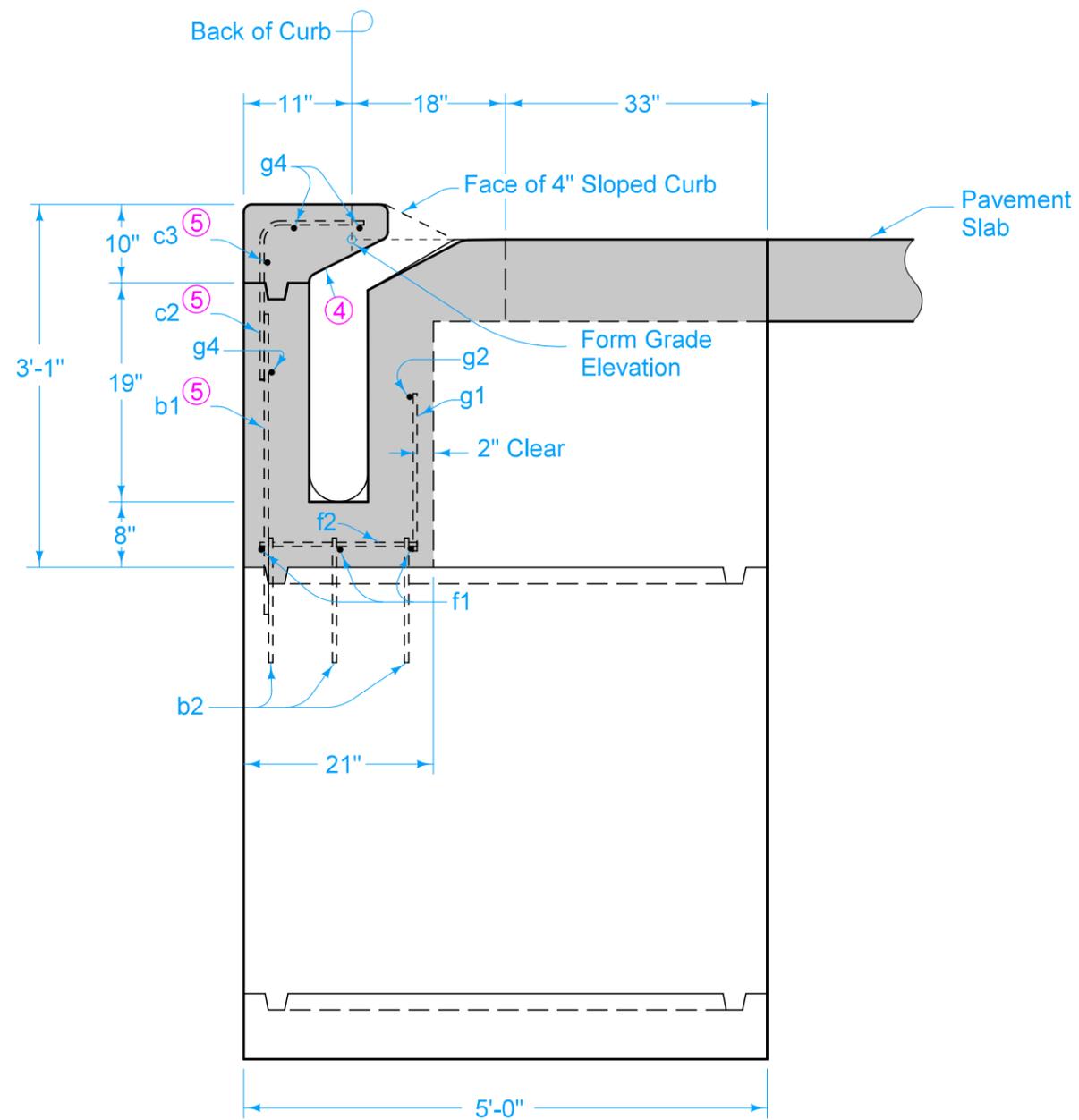
**EXTENSION UNIT FOR
OPEN-THROAT CURB
INTAKE UNDER PAVEMENT**



SECTION A-A



SECTION B-B



SECTION C-C

④ 2:1 Slope (Horizontal:Vertical)

⑤ See SW-541 for reinforcing.

4 INCH SLOPED CURB

FIGURE 6010.542 SHEET 3 OF 4

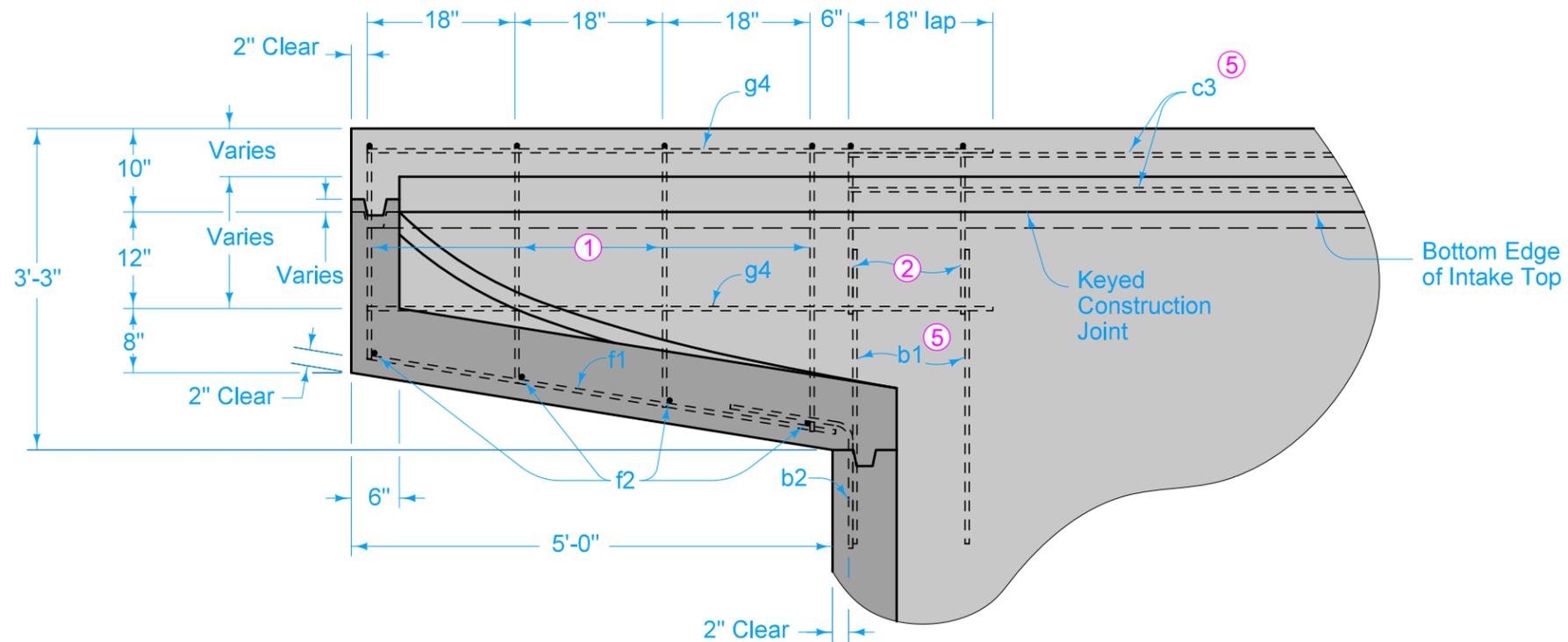
		REVISION	
		6	10-21-25
FIGURE 6010.542	STANDARD ROAD PLAN	SW-542	
		SHEET 3 of 4	

REVISIONS: Updated Sudas and IDOT Logos.

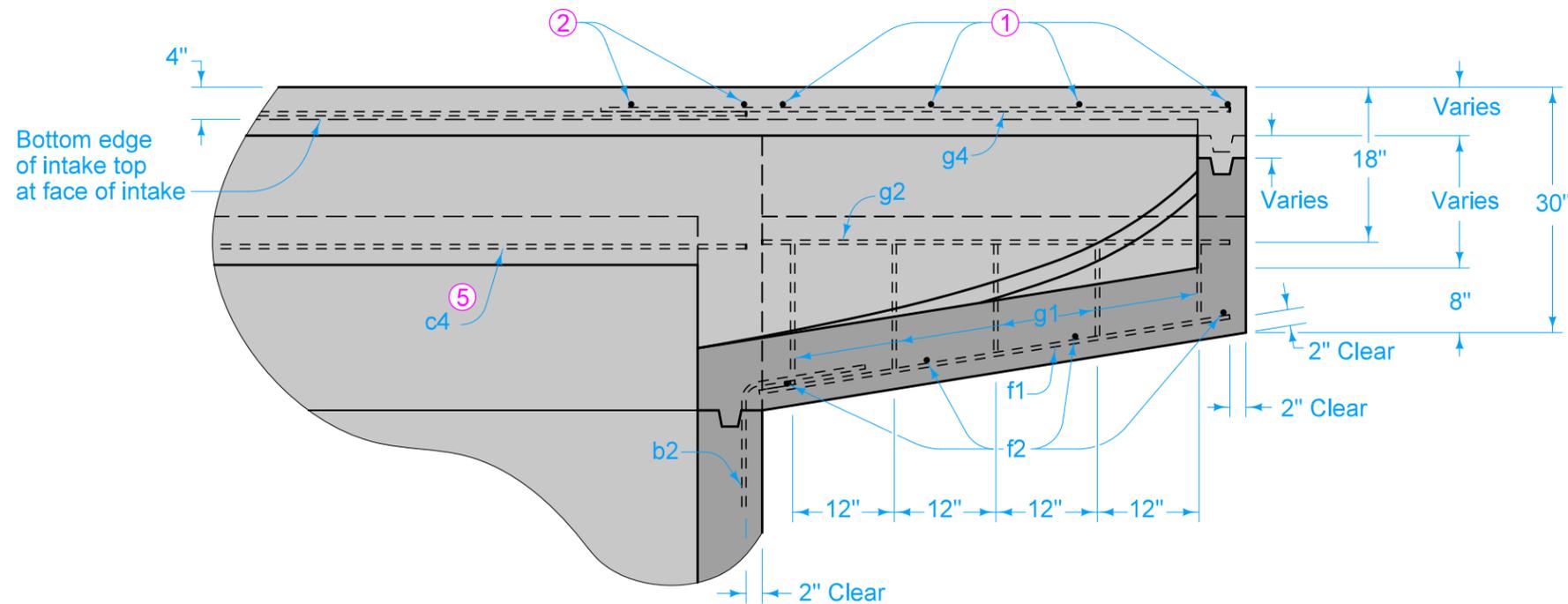
J. P. C.
SUDAS DIRECTOR

Stuart Miller
DESIGN METHODS ENGINEER

**EXTENSION UNIT FOR
OPEN-THROAT CURB
INTAKE UNDER PAVEMENT**



SECTION D-D



SECTION E-E

- ① g3 for 6 inch standard curb; g5 for 4 inch sloped curb.
- ② c1 for 6 inch standard curb; c2 for 4 inch sloped curb. See SW-541 for reinforcing.
- ⑤ See SW-541 for reinforcing.

		REVISION	
		6	10-21-25
FIGURE 6010.542	STANDARD ROAD PLAN	SW-542	
		SHEET 4 of 4	

REVISIONS: Updated Sudas and IDOT Logos.

SUDAS DIRECTOR DESIGN METHODS ENGINEER

**EXTENSION UNIT FOR
OPEN-THROAT CURB
INTAKE UNDER PAVEMENT**