

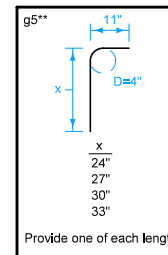
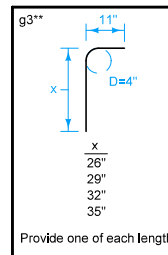
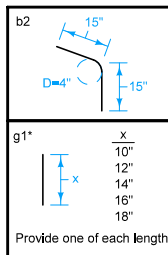
PLAN
(SW-542 EXTENSION AND SW-541 INTAKE)

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.

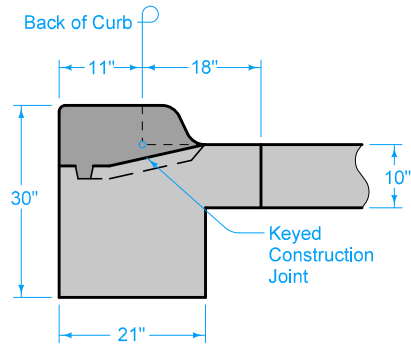
- ① g3 for 6 inch standard curb; g5 for 4 inch sloped curb.
- ② c1 for 6 inch standard curb; c2 for 4 inch sloped curb. See SW-541 for reinforcing.
- ③ The location station is where the centerline of intake meets the back of the curb line.

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

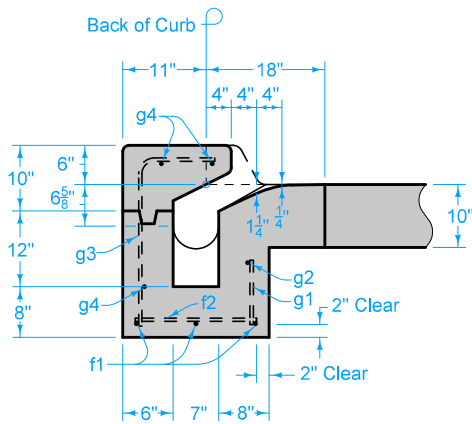
REINFORCING BAR LIST							
BAR	SIZE	LOCATION	SHAPE	NO.	LENGTH	WEIGHT	SPACING
b2	4	Intake Wall		3	2'-6"	5.0	9"
f1	4	Bottom		3	4'-9"	9.5	9"
f2	4	Bottom		4	1'-7"	4.2	18"
g1*	4	Wall		5	Varies*	Varies*	12"
g2	4	Wall		1	4'-8"	3.1	-
g3	4	Top		4	Varies**	Varies**	18"
g4	4	Top		3	6'-4"	12.7	-
g5	4	Top		4	Varies**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



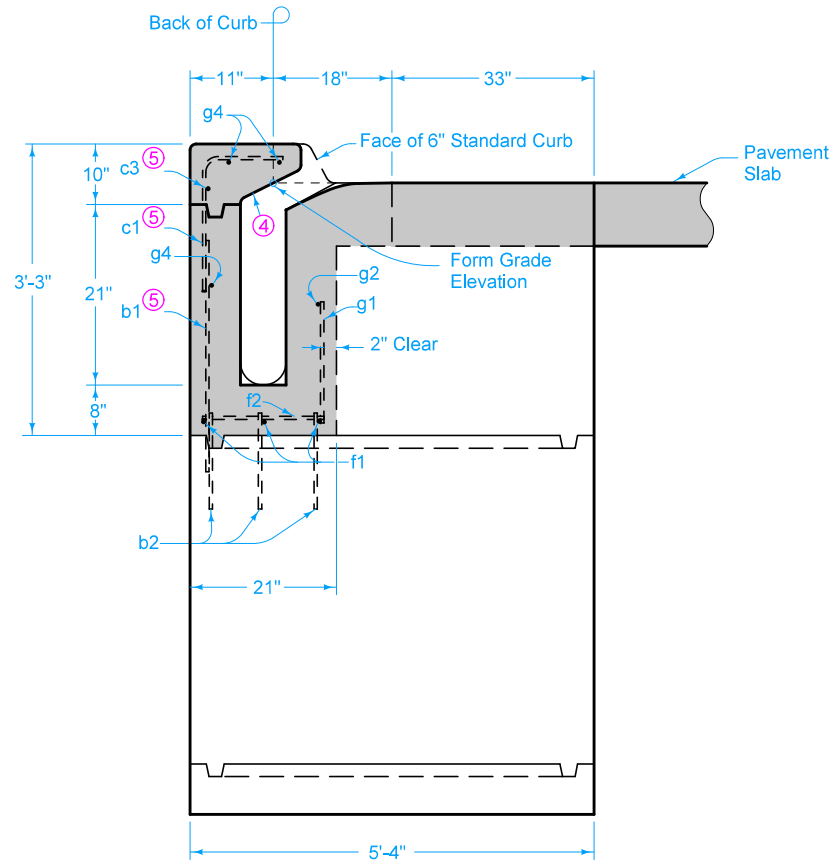
SUDAS	IOWADOT	REVISION
		3 04-21-20
FIGURE 6010.542	STANDARD ROAD PLAN	SW-542
SHEET 1 of 4		
<small>REVISIONS: Modified g3 and g5 bar lengths. Modified SECTIONS A-A, B-B, and C-C on Sheets 2 and 3. Converted to Joint standard with SUDAS.</small>		
Paul D. Wigand SUDAS DIRECTOR		Steve Miller DESIGN METHODS ENGINEER
EXTENSION UNIT FOR OPEN-THROAT CURB INTAKE UNDER PAVEMENT		



SECTION A-A



SECTION B-B



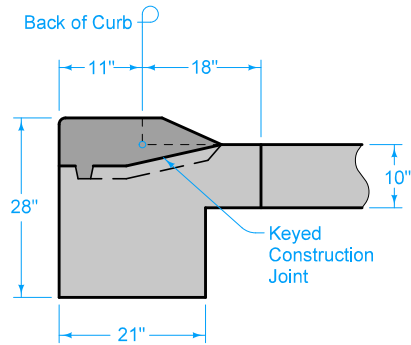
SECTION C-C

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

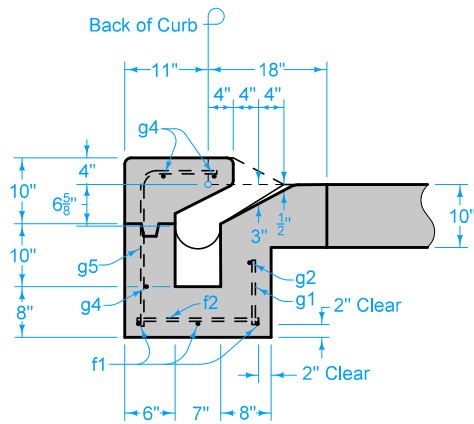
6 INCH STANDARD CURB

FIGURE 6010.542 SHEET 2 OF 4

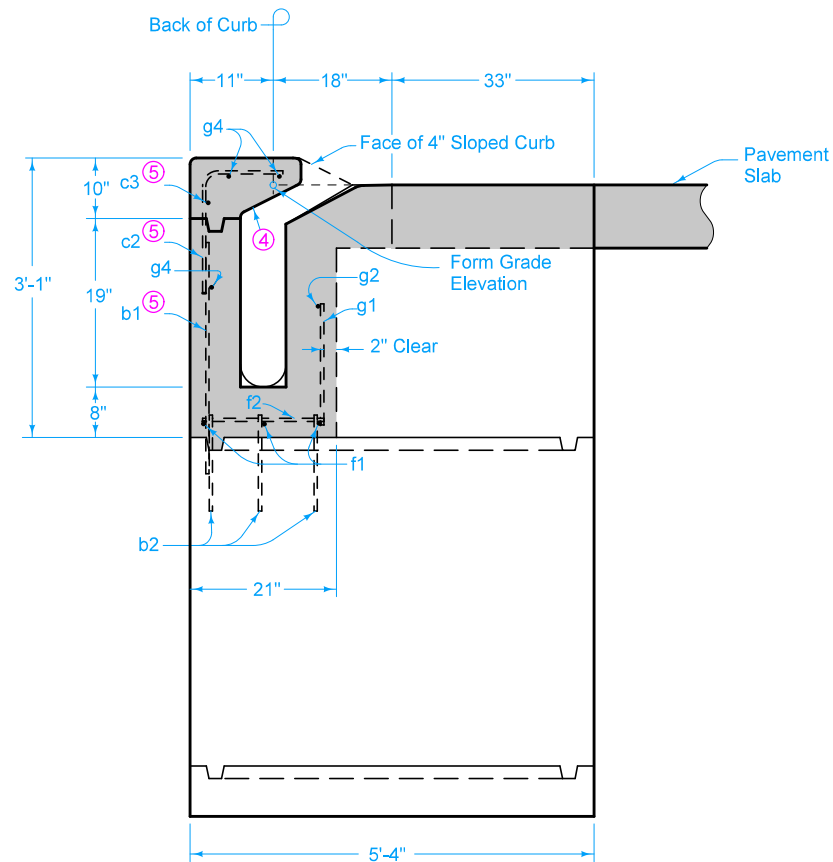
SUDAS	IOWADOT	REVISION
		3 04-21-20
FIGURE 6010.542	STANDARD ROAD PLAN	SW-542
		SHEET 2 of 4
<small>REVISIONS: Modified g3 and g5 bar lengths. Modified SECTIONS A-A, B-B, and C-C on Sheets 2 and 3. Converted to joint standard with SUDAS.</small>		
<i>Paul D. Wigand</i> <small>SUDAS DIRECTOR</small>		<i>Steve Nadeau</i> <small>DESIGN METHODS ENGINEER</small>
EXTENSION UNIT FOR OPEN-THROAT CURB INTAKE UNDER PAVEMENT		



SECTION A-A



SECTION B-B



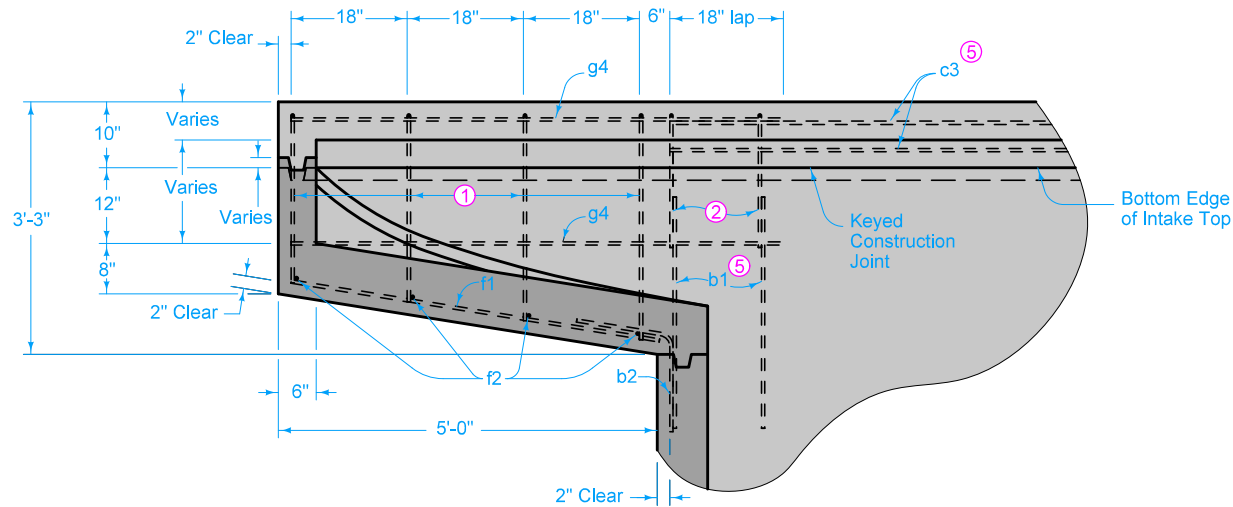
SECTION C-C

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

4 INCH SLOPED CURB

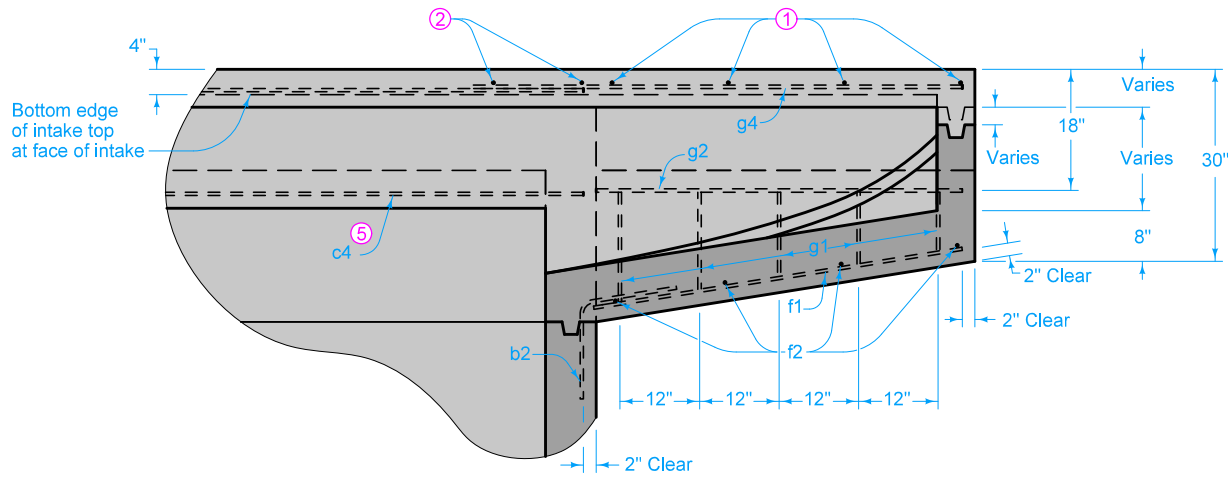
FIGURE 6010.542 SHEET 3 OF 4

SUDAS	IOWADOT	REVISION
		3 04-21-20
FIGURE 6010.542	STANDARD ROAD PLAN	SW-542
		SHEET 3 of 4
<small>REVISIONS: Modified g3 and g5 bar lengths. Modified SECTIONS A-A, B-B, and C-C on Sheets 2 and 3. Converted to joint standard with SUDAS.</small>		
<i>Paul D. Wigand</i> <small>SUDAS DIRECTOR</small>		<i>Steve Miller</i> <small>DESIGN METHODS ENGINEER</small>
EXTENSION UNIT FOR OPEN-THROAT CURB INTAKE UNDER PAVEMENT		



SECTION D-D

- 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.



SECTION E-E

FIGURE 6010.542 SHEET 4 OF 4

SUDAS	IOWADOT	REVISION
		3 04-21-20
FIGURE 6010.542	STANDARD ROAD PLAN	SW-542
		SHEET 4 of 4
<small>REVISIONS: Modified g3 and g5 bar lengths. Modified SECTIONS A-A, B-B, and C-C on Sheets 2 and 3. Converted to joint standard with SUDAS.</small>		
<i>Paul D. Wigand</i> <small>SUDAS DIRECTOR</small>		<i>Steve Miller</i> <small>DESIGN METHODS ENGINEER</small>
EXTENSION UNIT FOR OPEN-THROAT CURB INTAKE UNDER PAVEMENT		