# DRAINAGE

NUMBER	TITLE	
D-01.0	DROP INLET NOTES	
D-01.1	DROP INLET - TYPE 1	
D-01.2	DROP INLET - TYPE 2	
D-02.0	DROP INLET DETAIL NOTES	
D-02.1	DROP INLET THROAT AND STEP DETAIL	
D-03.0	GUTTER DEPRESSION - TYPE A	
D-03.1	GUTTER DEPRESSION - TYPE A1	
D-04.0	GUTTER DEPRESSION - TYPE B	
D-04.1	GUTTER DEPRESSION - TYPE B1	
D-05.0	CURB OUTLET DRAIN - TYPE A	
D-05.1	CURB OUTLET DRAIN - TYPE B	
D-05.2	CURB OUTLET DRAIN - TYPE C	
D-06.0	PIPE HEADWALL	

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DRAINAGE
TABLE OF CONTENTS

	REV. DATE:12/23 DETAIL: D-00.0
TRANS OPS:	APPROVED: Brie Dam
FACILITIES:	1
	CITY ENGINEER
WATER DECOURDED	12/20/23
WATER RESOURCES:	12/20/23
	DATE

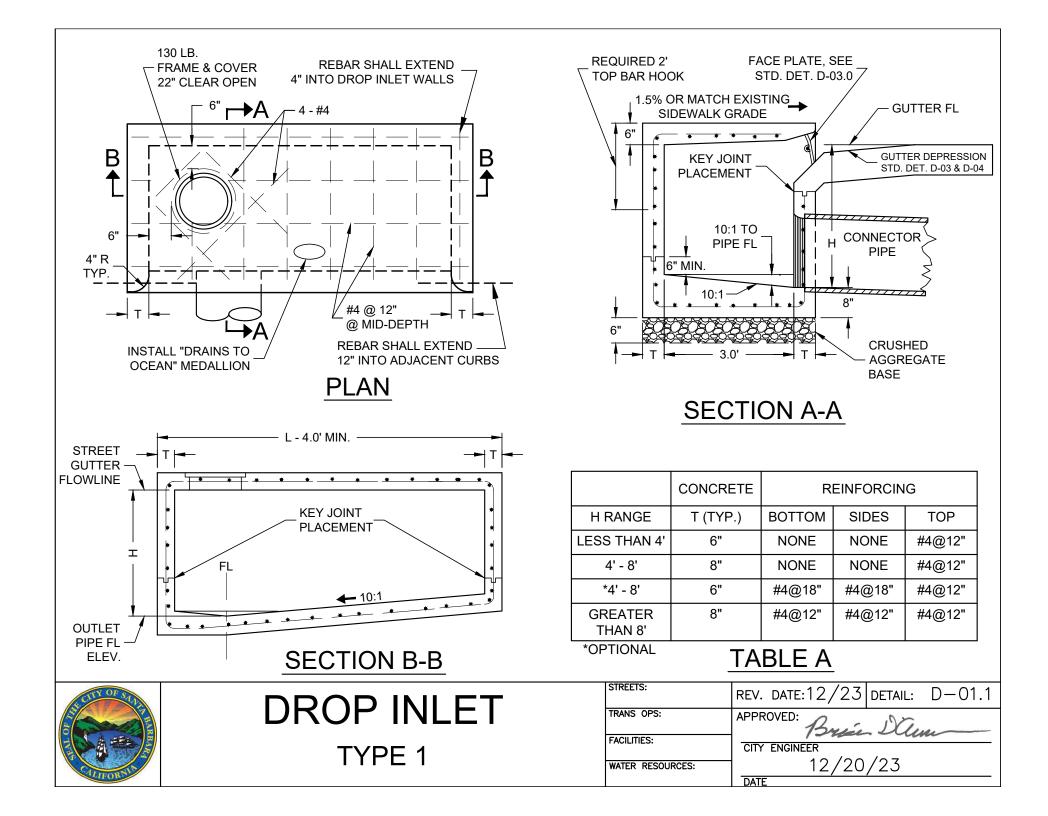
DROP INLET NOTES:

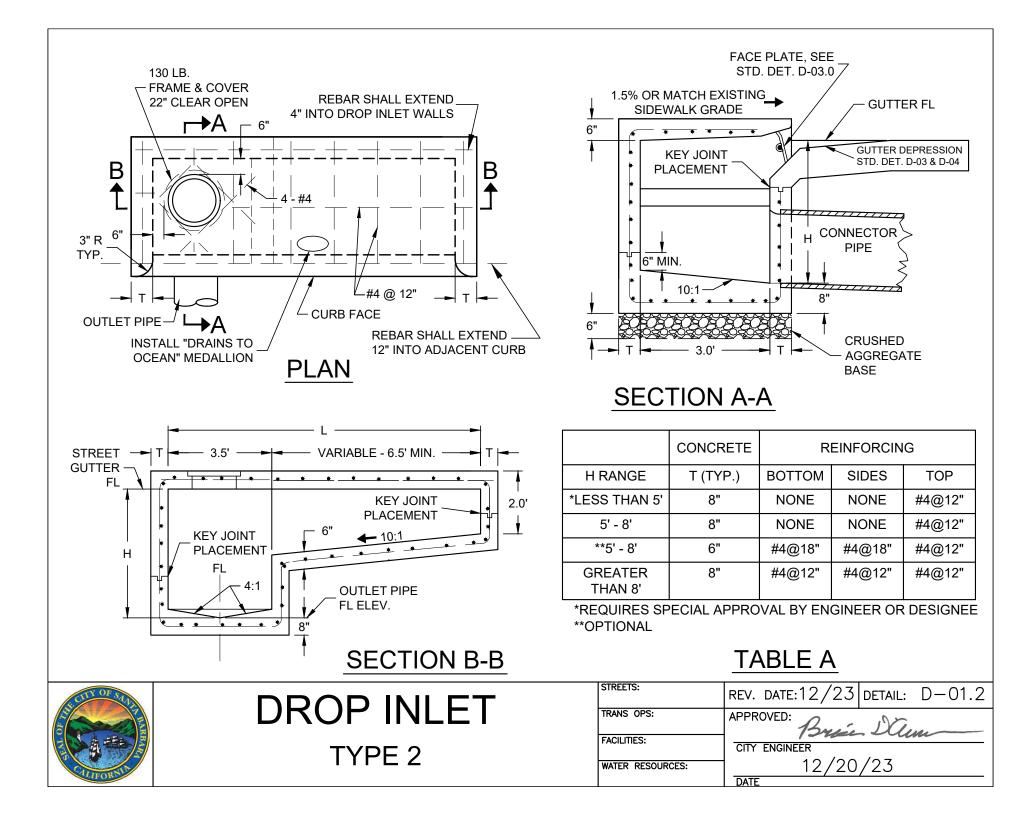
- 1. All concrete shall be Class 560-C-3250 per Standard Specifications for Public Works Construction (latest edition of Green Book).
- 2. The curb opening shall be as shown on plan, but not less than 4 feet for Type 1, 10 feet for Type 2.
- 3. Install step when required, per Standard Detail D-02.0 and D-02.1.
- 4. Connector pipe shall be placed on the back or side wall as shown in plans, to be clear of future drop inlet filter baskets.
- 5. Provide 3 inch radius rounded edge at pipe inlet.
- 6. The width of gutter depression shall be 4 feet unless otherwise shown on plans.
- 7. Manhole frame and cover shall be Alhambra Foundry A-1530B lettered with the words "City of Santa Barbara Storm Drain" unless otherwise specified in plans.
- 8. Top slab surface shall be a light broom finish.
- 9. See Standard Detail D-02.0 for drop inlet throat and step detail.
- 10. Gutter depression shall be Type A, Standard Detail D-03.0 unless otherwise specified on plans.
- 11. Reinforcing steel in the top slab shall be #4 @12 inches on center.
- 12. Wall thickness (T) and reinforcing requirements shall be per Table A, Standard Details D-01.1 and D-01.2.
- 13. Clear drying fugitive dye curing compound shall be applied to all exposed surfaces immediately after finishing.
- 14. Aggregate base shall be placed 6 inches deep and compacted to 95% minimum relative compaction on undisturbed native soil before placing concrete.
- 15. Manhole shall be set 6 inches from inside wall of inlet.
- 16. All interior walls, floor, and top shall be sacked and patched upon completion.
- 17. Extend top slab rebar 4 inches into walls of drop inlet and 12 inches into adjacent curbs.
- 18. Install "Drains to Ocean" medallion on top slab per Standard Details D-01.1 and D-01.2.
- 19. Install American Storm Water "Surf Gate" catch basin debris screen.
- 20.Reference Standard Specifications for Public Works Construction (latest edition of Green Book) for details for connector pipe to storm drain pipe connections.



DROP	INLET
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TREETS:		date:12	,			
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ACILITIES:		ENGINEER				
VATER RESOURCES:	DATE		/20	/23		





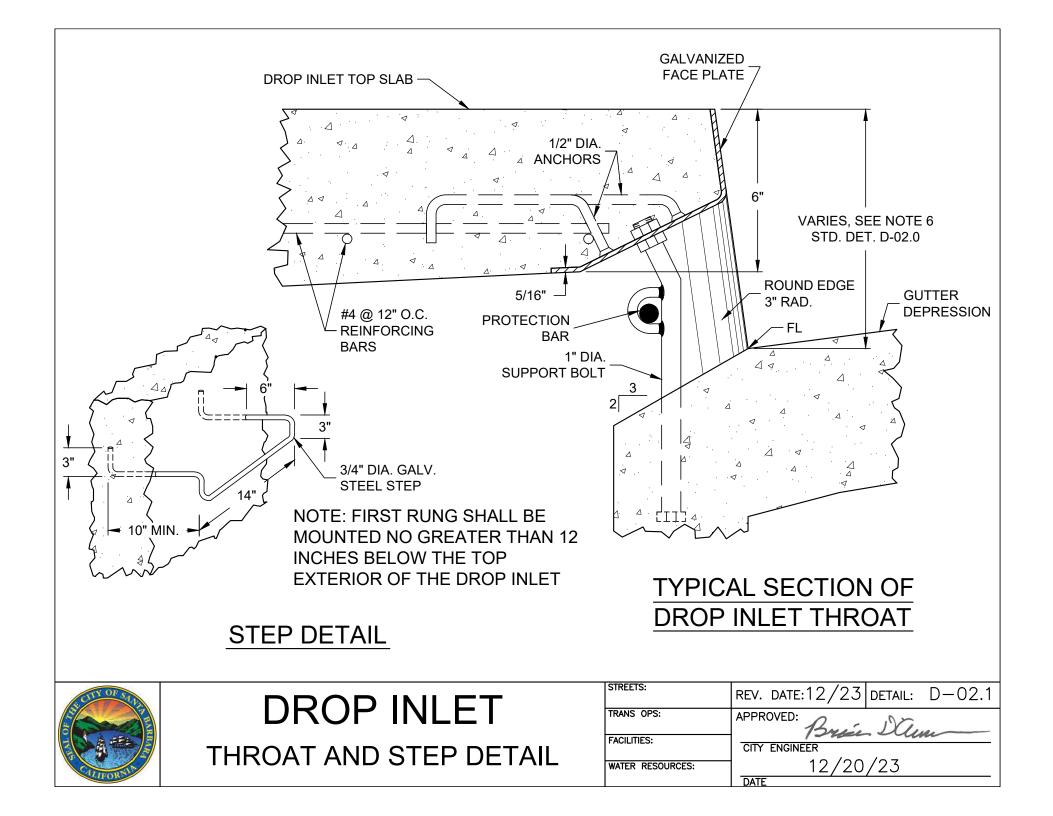
## DROP INLET DETAIL NOTES:

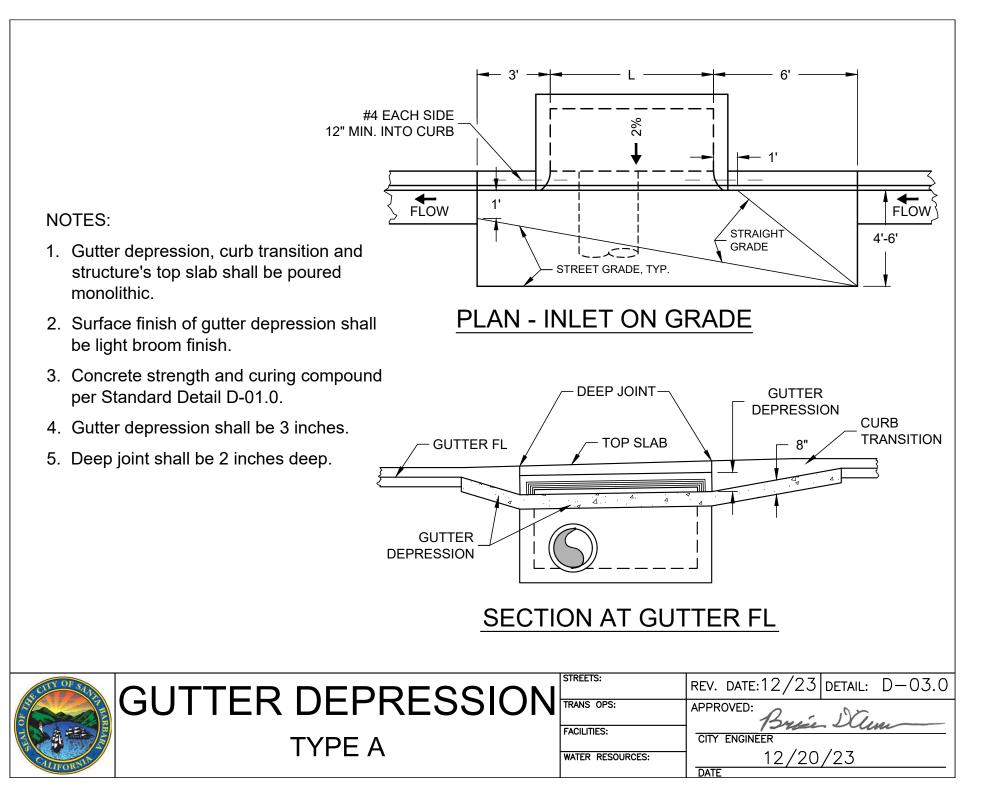
- 1. Face plate shall be Alhambra Foundry A-3912 or approved equal, embedded 3 inches into side walls.
- 2. Support bolts shall be installed, when curb opening exceeds 7 feet and shall be spaced evenly not more than 7 feet and not less than 5 feet on center.
- 3. 3/4 inch diameter longitudinal protection bar assembly shall be installed when inlet curb face is more than 9 inches. The protection bar shall be fitted to each support bolt.
- 4. Steps are not required when H is 3.5 feet or less (see Standard Details D-01.1 and D-01.2). Install one step 16 inches above the floor when H is greater than 3.5 feet but less than 5 feet. Install steps at 12 inch intervals when H exceeds 5 feet. Steps shall be non-slip polypropylene plastic coated reinforcing steel complying with all current ASTM standards. Any exposed metal parts shall be galvanized after fabrication.
- 5. Inlet opening shall be equal to the existing curb height plus 3 inches.
- 6. Install American Storm Water "Surf Gate" catch basin debris screen.

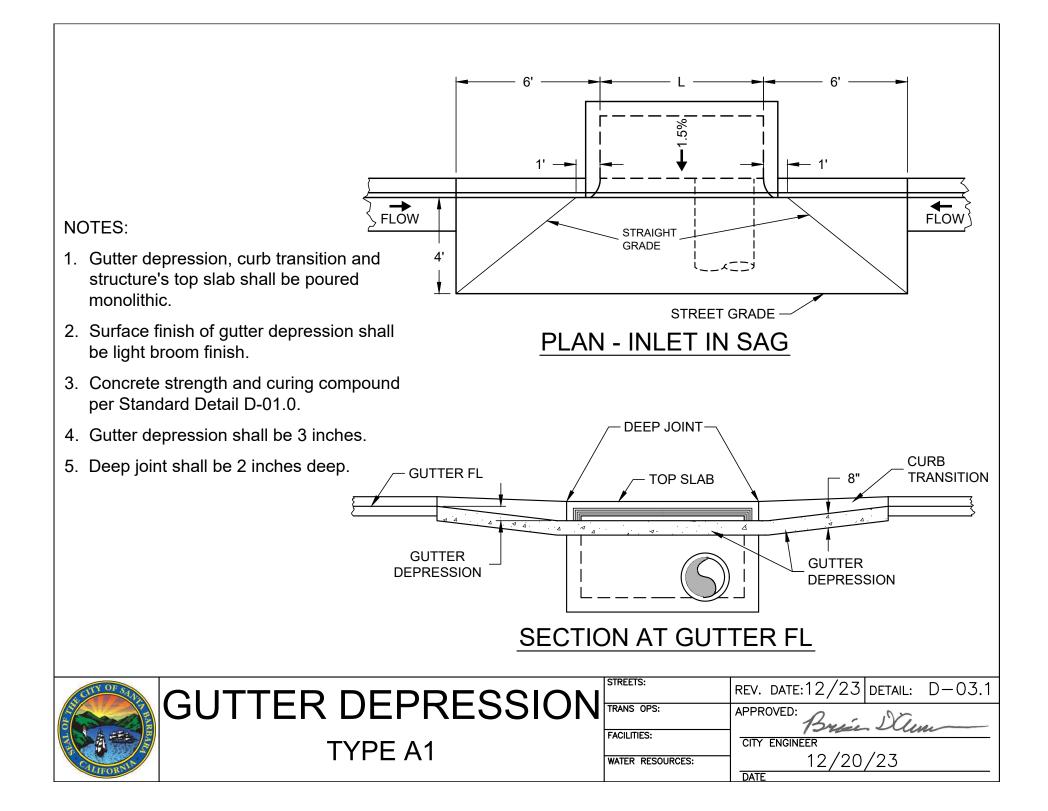
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DROP	INLET
DETAIL	NOTES

STREETS:	REV.	date:1	2/23	DETAIL:	D-	-02.0
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WATER RESOURCES:		1	2/20	/23		
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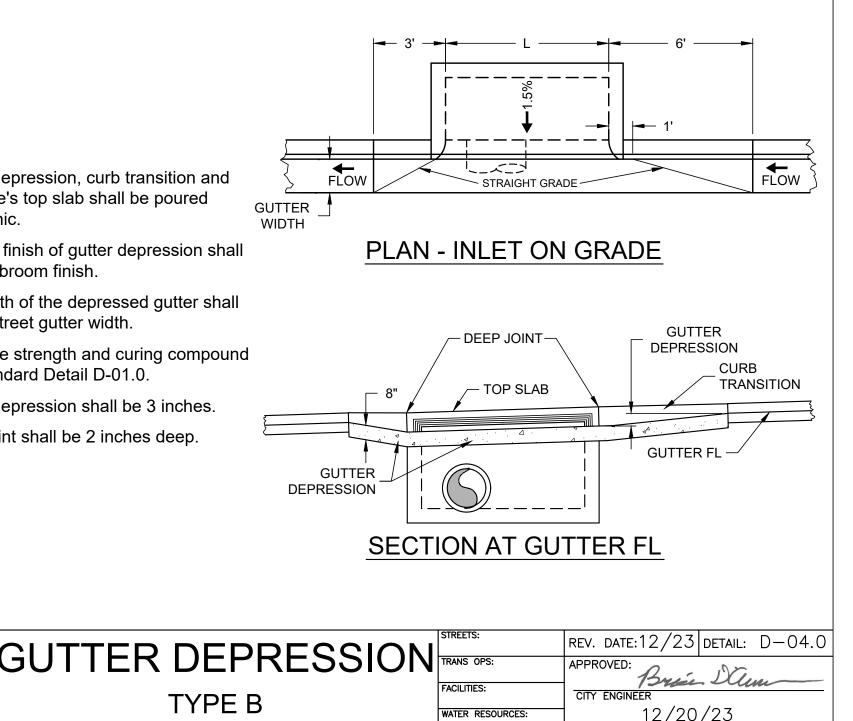






### NOTES:

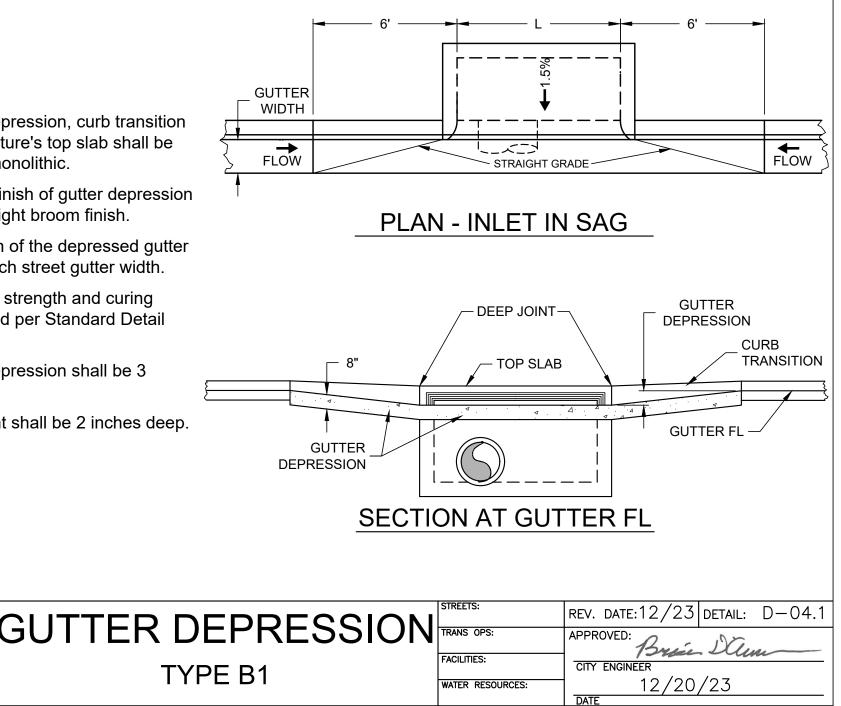
- 1. Gutter depression, curb transition and structure's top slab shall be poured monolithic.
- 2. Surface finish of gutter depression shall be light broom finish.
- 3. The width of the depressed gutter shall match street gutter width.
- 4. Concrete strength and curing compound per Standard Detail D-01.0.
- 5. Gutter depression shall be 3 inches.
- 6. Deep joint shall be 2 inches deep.

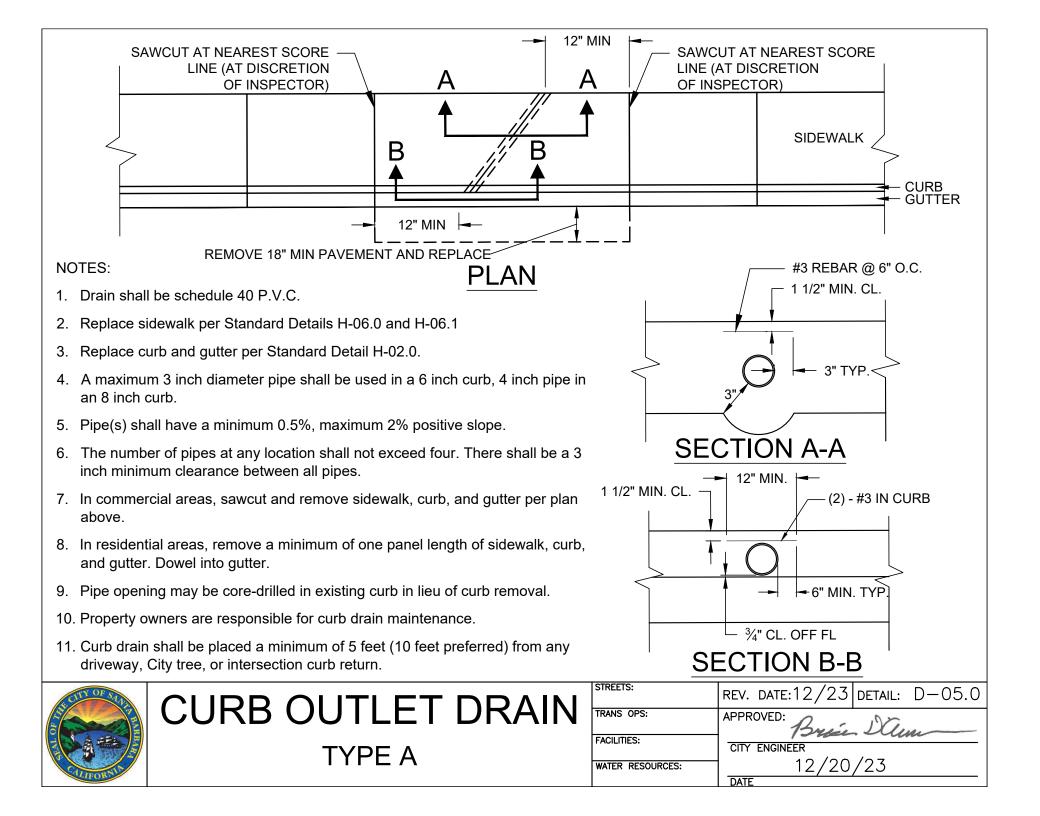


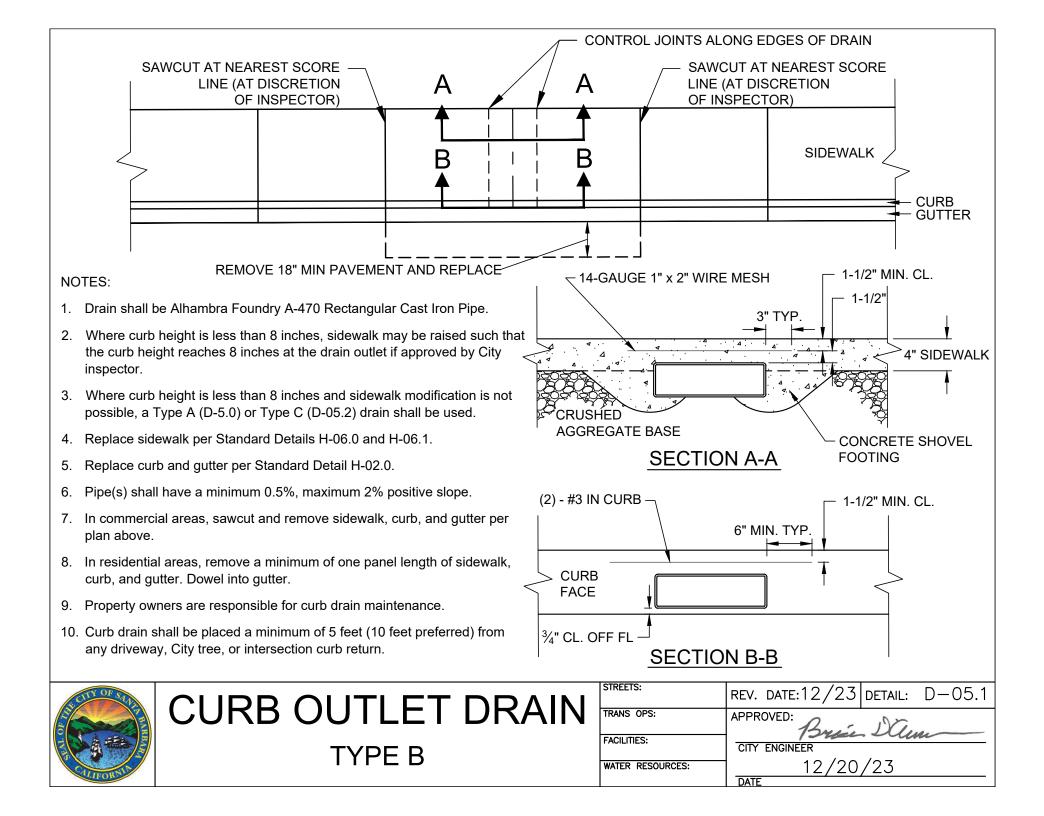
DATE

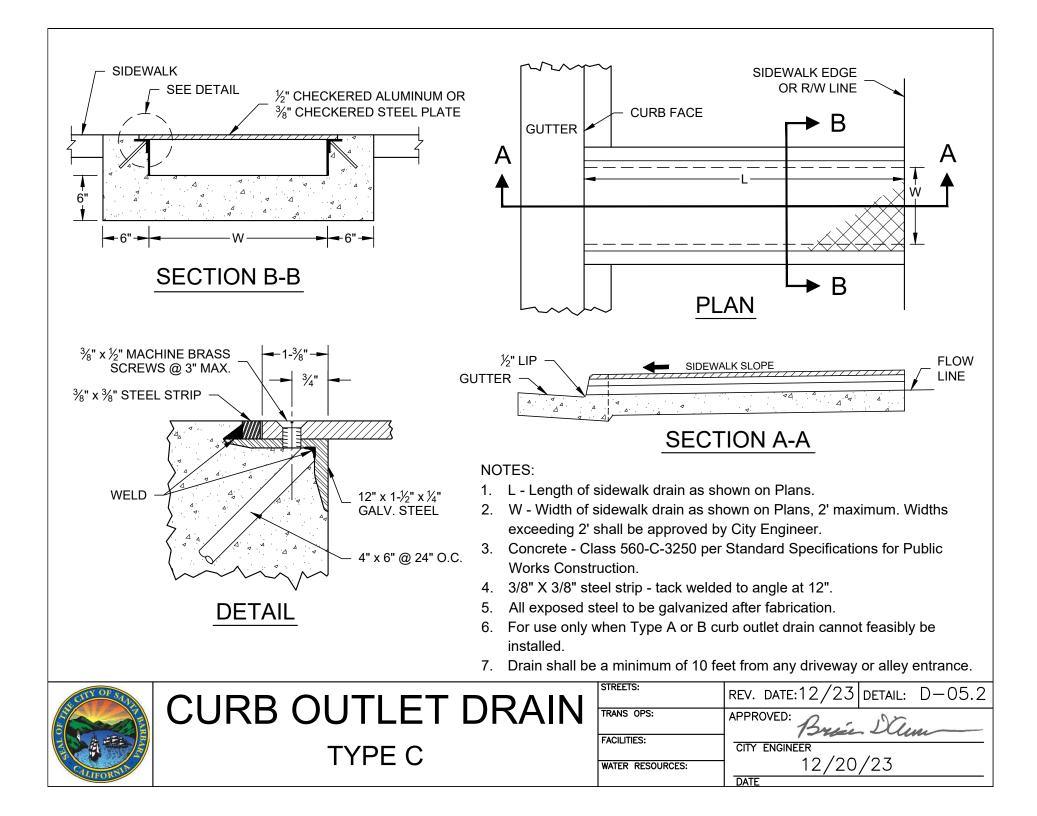
#### NOTES:

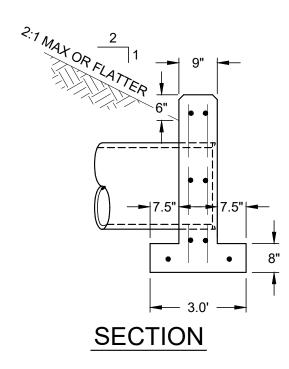
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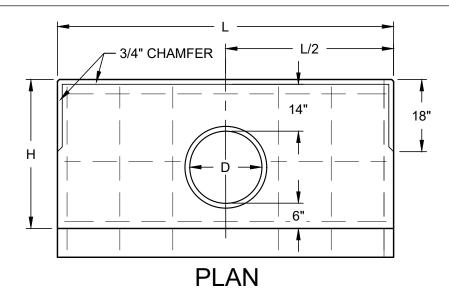






### NOTES:

- 1. Concrete Class 560-C-3250 per Standard Specifications for Public Works Construction (latest edition of Green Book).
- 2. Reinforced steel all horizontal and vertical bars shall be #4 at maximum 18-inch spacing.
- 3. Provide 3 inch radius rounded edge at pipe inlet.
- 4. Double inlet wall same as single D/2 or 2-foot minimum spacing between pipe inside diameters.



D	Н	SINGLE			DOUBLE		
(IN.)	(FT.)	L (FT.)	STEEL (LBS.)	CONC. (C.Y.)	L (FT.)	STEEL (LBS.)	CONC. (C.Y.)
18	3.17	7.0	50	0.91	10.5	75	1.35
21	3.42	7.5	60	1.02	11.5	90	1.52
24	3.67	8.5	75	1.20	12.5	100	1.72
27	3.92	9.5	85	1.39	14.0	115	2.00
30	4.17	10.0	85	1.52	15.0	126	2.21
33	4.50	11.0	100	1.73	16.0	130	2.42
36	4.67	12.0	105	1.95	17.0	145	2.65
39	4.92	12.5	130	2.09	18.0	170	2.88
42	5.17	13.5	140	2.34	19.0	185	3.13
45	5.42	14.5	150	2.60	20.0	195	3.38
48	5.67	15.0	160	2.75	21.0	200	3.64



STREETS:	rev. date:12/23 detail: D-06.0
TRANS OPS:	APPROVED: Brie Dam
FACILITIES:	CITY ENGINEER
WATER RESOURCES:	12/20/23
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