



1515 SIXTH STREET • COACHELLA, CA 92236

Fax: (760) 398-8117

Administration	398-8502	Grants	398-5110
Animal Control	398-4978	Housing	398-5110
Building	398-3002	Personnel	398-3502
City Clerk	398-3502	Planning	398-3102
City Council	391-5009	Public Works	398-5744
Code Enforcement	398-4978	Recreation	398-3502
Economic Develop.	398-5110	Riverside Sheriffs Office	863-8990
Engineering	398-5744	Sanitary	391-5008
Finance	398-3502	Senior Svs.	398-0104
Fire	398-8895	Utilities	398-2702

CITY OF COACHELLA PUBLIC WORKS DEPARTMENT

IMPROVEMENT STANDARDS AND SPECIFICATIONS

APRIL 1995

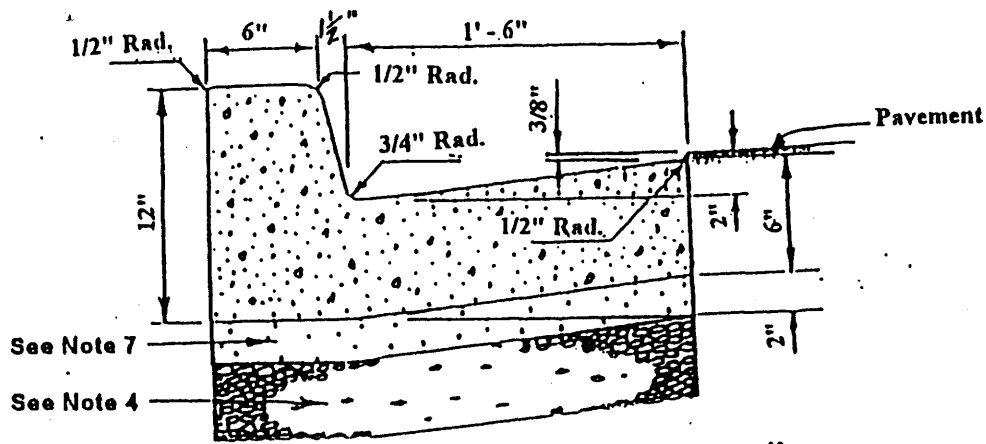
INDEX

STREET IMPROVEMENTS

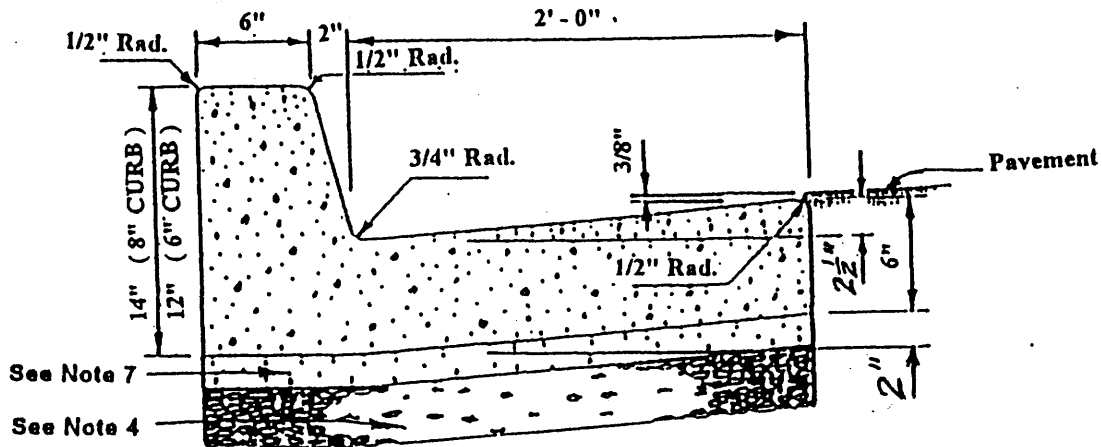
<u>STD.NO.</u>	<u>DESCRIPTIONS</u>	<u>STD.NO.</u>	<u>DESCRIPTION</u>
S-1A	Standard Curb & Gutter	S-12	Offset Cul-De-Sac
S-1B	Standard Curb	S-13	Standard Knuckle
S-1C	Residential "Wedge" Curb	S-14	Sidewalk Transition
S-2	Standard Sidewalk	S-15	Standard Block wall
S-3	Street Dimensions	S-16	Trenching Standard 15 ft. in Depth
S-4	Standard Returns	S-17	Trenching Less Than 15 ft. in Depth
S-5A	Standard X-Gutter & Spandrel	S-18	Std. Drywall Detail
S-5B	Concrete Ribbon	S-19	Std. Type "L" Marker
S-6	Residential Driveway	S-20	Street Name Sign
S-6A	Residential Driveway	S-21	Barricade
S-7A-1	Standard Street Monument	L-1	Street Lighting Std.
S-7A-2	Standard Property Corners	L-2	Street Lighting Std.
S-7C	Type "B" Monument		Residential Layout Guidelines
S-8	Wheel Chair Ramp		
S-9	Expansion Joints & Scoring		
S-10	Commercial Driveway		
S-11	Standard Cul-De-Sac		

INDEX

<u>STD.NO.</u>	<u>DESCRIPTIONS</u>	<u>STD.NO.</u>	<u>DESCRIPTION</u>
R-26	Coachella Sanitary District Property Development Standards For Sanitary Services	W-1	Typical Water Services for 1", 3/4", 5/8", 3/4" Meters
D-1	Standard Manhole	W-2A	Fire Hydrant Detail
D-2	Drop Manhole Details	W-2A-1	Water Valve Cover Detail
D-3	Metering Manhole	W-2B-1	Standard Fire Hydrant Protection
D-4	Manhole type "D"	W-2B-2	Standard Fire Hydrant Protection
D-5	Manhole Frame & Cover	W-3	4"Blowoff Assembly
D-6	Sand and Grease Trap	W-4	Thrust Block Bearing Areas
D-7	Standard Cleanout	W-5	Concrete Thrust Blocks
D-8	Sewer House Connection	W-6	Typical Water Service For 1-1/2" & 2" meter Installation
D-8A	Sewer House Connection In Existing Street	W-7	Water Main Plug Assembly Standards
D-9	Sewer Manhole Detail	W-8	Fire Detector Check Assembly(4"or6" DC)
		W-9	Fire Detector Check Assembly(8" DC)
		W-10	Temporary Bacteria Sample Riser
			Water Test Station For Bacteria Test



TYPE "A" CURB (6")
 (0.04977 cu. yd. per linear feet)



TYPE "B" CURB (6") (8")

8" = (0.06379 cu. yd. per linear feet)
 6" = (0.06019 cu. yd. per linear feet)

NOTES:

1. Curb & Gutter shall be constructed in accordance with Section 303-5 of the Standard Specifications for Public Works Construction, Current Edition, A.P.W.A.
2. Concrete shall be Class 520-C-2500, Portland Type V Cement, Air Entrained. (5 1/2 Sacks)
3. Concrete shall be cured with Type 2, White Pigmented, Curing Compound.
4. 0.40 ft. of Aggregate Base shall be used when Soils Report indicate presence of expansive soil or soil with R-Value less than 40.
5. Expansion Joints shall be constructed in accordance with Std. Dwg. S-9.
6. Finish surface of concrete shall be light broom finish.
7. Concrete shall be placed on a two-inch layer of dry washed sand, which shall be placed on top of a ten (10) mil thick water proof membrane, unless it is stated in writing by a registered soils engineer that soil conditions do not warrant such protection of the concrete structure.

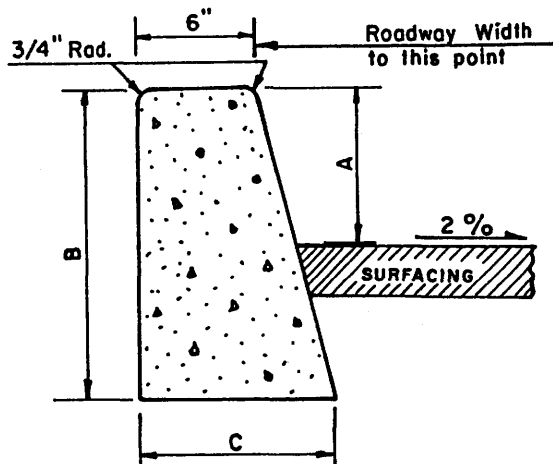
REVISED Date: April 1995

CITY OF COACHELLA
 DEPARTMENT OF PUBLIC WORKS

APPROVED BY:
John E. Curtis 4-14-95
 CITY ENGINEER RCE NO. 17822 DATE

STANDARD CURB & GUTTER

STD. DWG. S-1A



TYPE "D" CURB

DIMENSION	6" CURB	8" CURB
A	6"	8"
B	15"	17"
C	9 - 1/2"	10"

NOTES:

1. Curb shall be constructed in accordance with Section 303-5 of the Standard Specification for Public Works Construction, Current Edition, A.P.W.A..
2. Concrete shall be Class 520-C-2500, Portland Type V Cement, Air Entrained.(5.5 Sacks)
3. Concrete shall be cured with Type 2, White Pigmented, Curing Compound.
4. Expansion Joints shall be at the beginning & end of all curves, tapers, & returns, & at 15 ft. O.C..
5. Broom Finished.

REVISED Date: _____

CITY OF COACHELLA

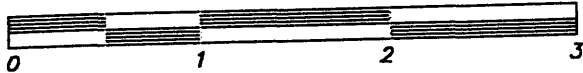
DEPARTMENT OF PUBLIC WORKS

STANDARD CURB

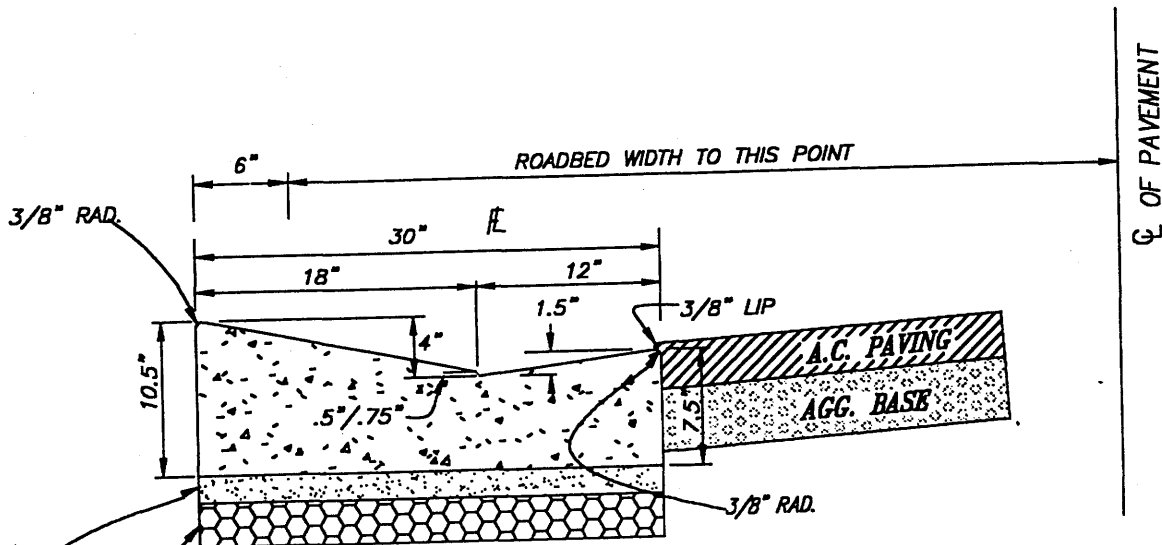
APPROVED BY: *[Signature]* 8-1-84

CITY ENGINEER RCE 34786 DATE

STD. DWG. S-1B



SCALE 1"=1'



0.40 FT. OF AGGREGATE BASE SHALL BE USED WHEN SOILS REPORT INDICATES PRESENCE OF EXPANSIVE SOIL OR SOIL WITH R-VALUE LESS THAN 40.

CONCRETE SHALL BE PLACED ON A TWO-INCH LAYER OF DRY WASHED SAND, WHICH SHALL BE PLACED ON TOP OF A TEN (10) MILL THICK WATER PROOF MEMBRANE.

CLASS 520-C-2500 CONCRETE

1.56 C.F./L.F.

1 C.Y. = 17.30 L.F.

MINIMUM PERMISSIBLE GRADE 0.50%

PROVIDE 3/8" LIP AT EDGE OF ASPHALT

MINIMUM SUBGRADE COMPACTION 95% RELATIVE TO MAXIMUM

MAX. GRADE BREAK ON ROADWAYS SHALL NOT EXCEED 0.50%

ALL GUTTER SHOULD BE "FLOW TESTED" DURING FINISHING

NOTE: THIS CURB IS INTENDED FOR PRIVATE RESIDENTIAL USE ONLY, WHERE IT IS DESIRED TO AVOID THE NEED FOR CUTTING DRIVEWAY APPROACHES THROUGH FULL-FACE CURB. NOTE THAT DUE TO REDUCED WATER CARRYING CAPACITY, IT MAY NOT BE AS ABLE TO CARRY THE REQUIRED STORM WATER FLOWS. IT MUST BE PRE-APPROVED BY THE CITY ENGINEER PRIOR TO USE.

CITY OF COACHELLA

STANDARD

REVISIONS

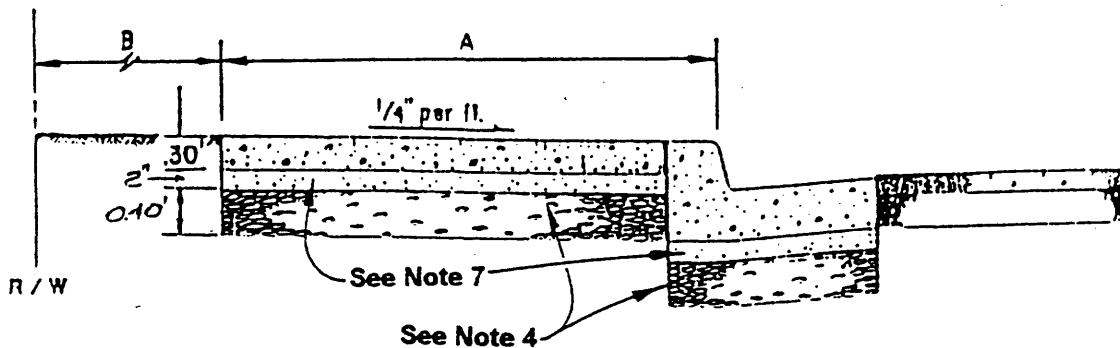
RESIDENTIAL "WEDGE" CURB

DRAWING

S-1C

APPROVED BY: CITY ENGINEER DATE

STREET TYPE	A	B
Cul-de-sac	5'	5'
Local	5'	5'
Minor Collector	5'	7'
Major Collector	6'	6'
Secondary Arterial	6'	6'
Primary Arterial	6'	6'
Major Arterial	6'	4'



NOTES:

- Sidewalks shall be constructed in accordance with Section 303-5 of the Standard Specifications for Public Works Construction, Current Edition, A.P.W.A..
- Concrete shall be Class 520-C-2500, Portland Type V Cement, Air Entrained. (5 1/2 Sacks)
- Concrete shall be cured with Type 2, White Pigmented, Curing Compound.
- 0.40 ft. of Aggregate Base shall be used when Soils Report indicate presence of expansive soil or soil with R-Value less than 40.
- Expansion Joints and Scoring shall be constructed in accordance with Std. Dwg. S-9.
- Finish surface of concrete shall be light broom finish.
- Concrete shall be placed on a two-inch layer of dry washed sand, which shall be placed on top of a ten (10) mil thick water proof membrane, unless it is stated in writing by a registered soils engineer that soil conditions do not warrant such protection of the concrete structure.

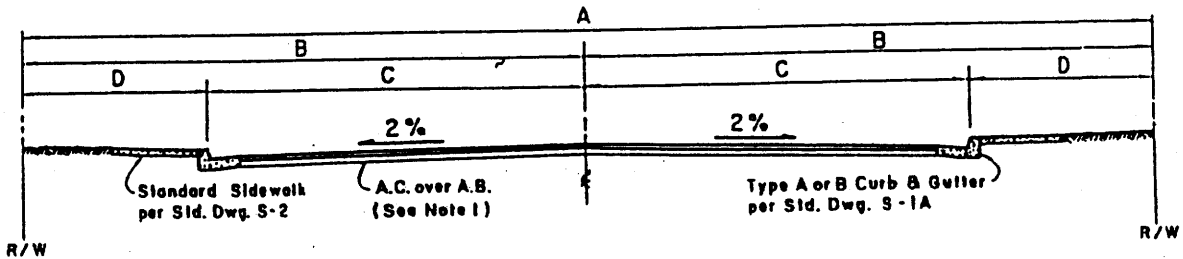
REVISED Date: April 1995

CITY OF COACHELLA
DEPARTMENT OF PUBLIC WORKS

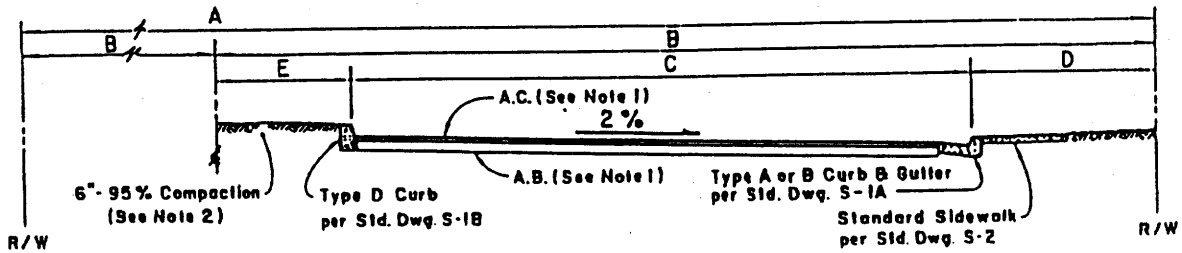
APPROVED BY:
John E. Luntia 4-14-95
CITY ENGINEER RCE NO. 17822 DATE

STANDARD SIDEWALK

STD. DWG. S-2



Cul-De-Sac, Local and Collector Street



**Major Collector & Arterial Streets and State Highways
(ONLY HALF WIDTH SHOWN)**

STREET TYPE	A	B	C	D	E
Cul-de-sac	60'	30'	20'	10'	-
Local	60'	30'	20'	10'	-
Minor Collector	72'	36'	24'	12'	-
	64'	32'	20'	12'	-
Major Collector	88'	44'	32'	12'	6'
Secondary Arterial	100'	50'	32'	12'	6'
Primary Arterial	110'	55'	32'	12'	11'
Major Arterial	120'	60'	39'	10'	11'
State Highway	See CALTRANS				

NOTES:

1. Paving Design shall be in accordance with Section 7-651 of the State Highway Design Manual.
2. 0.40 ft. of Aggregate Base shall be used when Soils Report indicate presence of expansive soil or soil with R-Value less than 40.
3. Concrete shall be placed on a two-inch layer of dry washed sand, which shall be placed on top of a ten (10) mil thick water proof membrane, unless it is stated in writing by a registered soils engineer that soil conditions do not warrant such protection of the concrete structure.

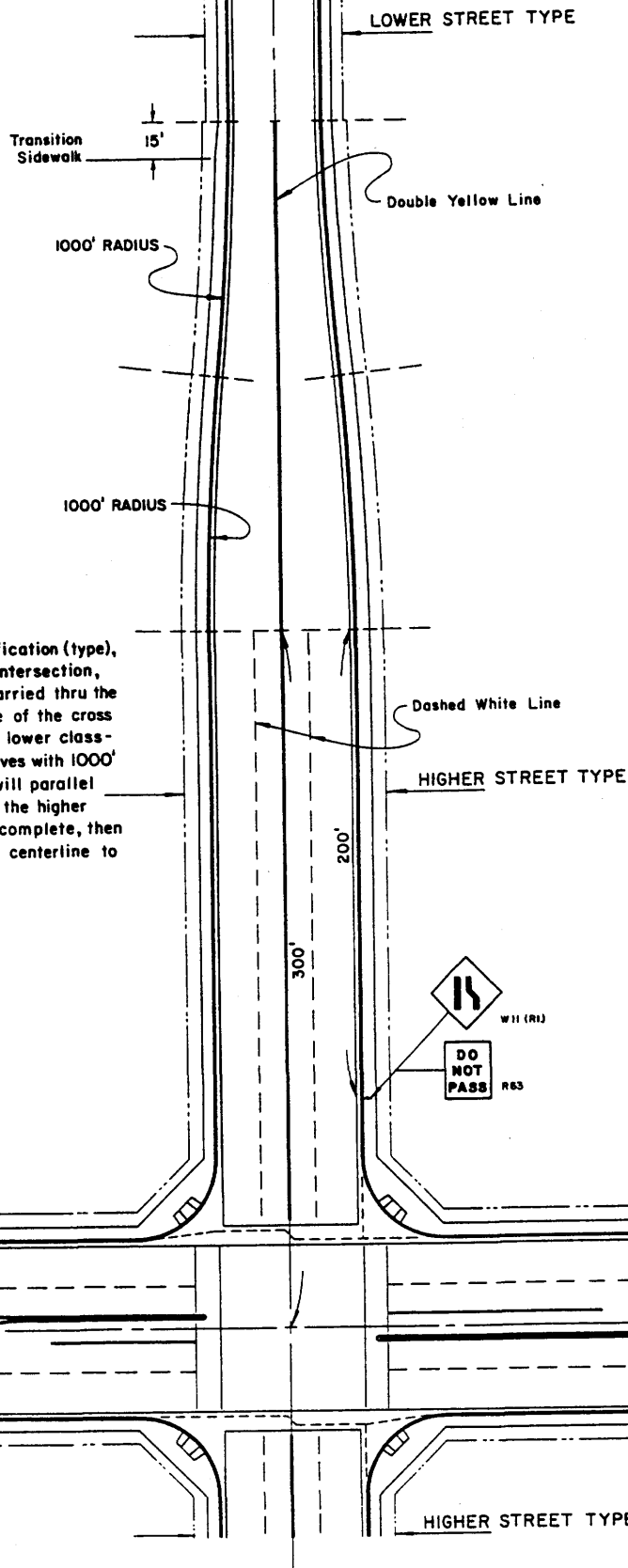
REVISED DATE: April 1995

CITY OF COACHELLA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY:
John E. Luter 4-14-95
CITY ENGINEER RCE NO. 17822 DATE

STREET DIMENSIONS

STD. DWG. S-3



NOTE:

When the street or highway classification (type), See Std. Dwg. S-3, changes at an intersection, the higher classification shall be carried thru the intersection for 300' from centerline of the cross street then transitioned down to the lower classification using tangent reversing curves with 1000' radius as shown. The right-of-way will parallel the curb with the parkway width for the higher classification until the transition is complete, then dropped perpendicular to the street centerline to the lower classification.

CITY OF COACHELLA

DEPARTMENT OF PUBLIC WORKS

APPROVED BY:

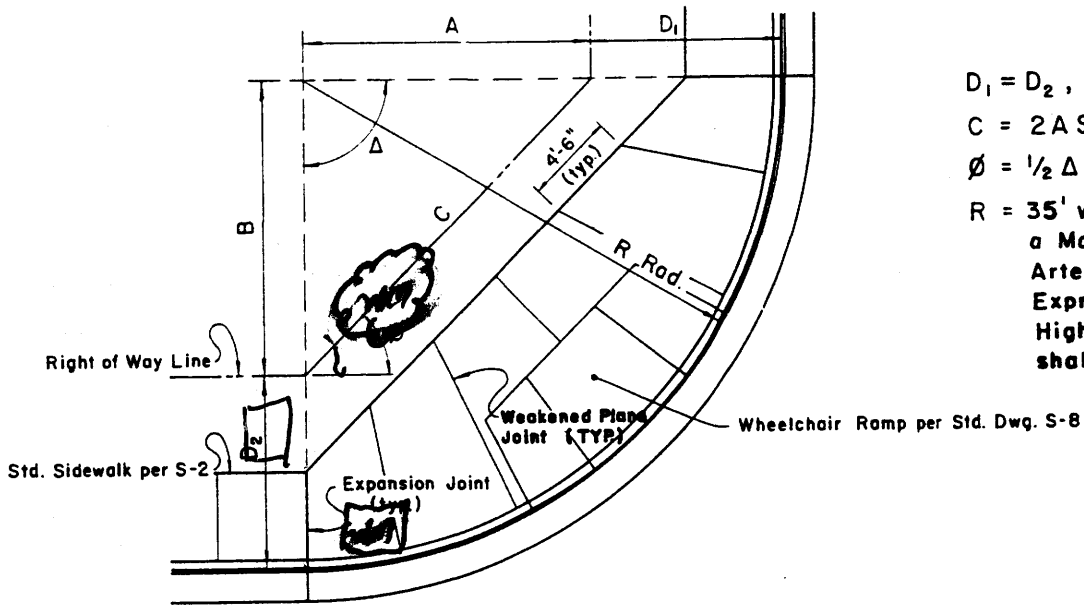
Donald W. Monte
CITY ENGINEER RCE 14456

3-25-80
DATE

STREET TYPE CHANGES

STD. DWG. S-3B

7 BEHIND F.O.C.

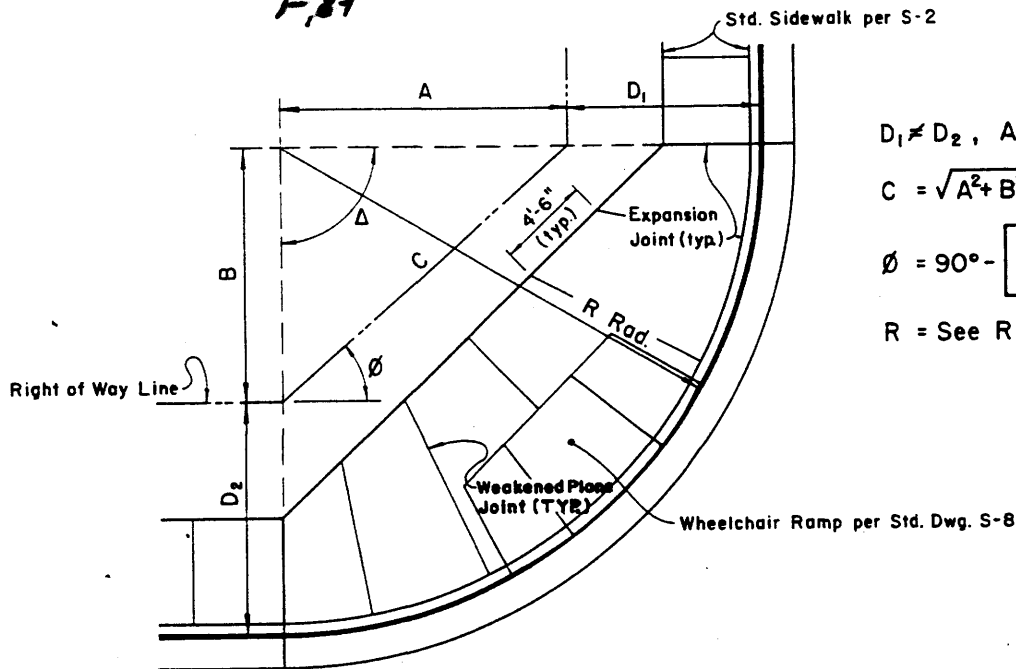


$$D_1 = D_2, A = B$$

$$C = 2A \sin \frac{1}{2} \Delta$$

$$\phi = \frac{1}{2} \Delta$$

$$R = 35' \text{ when one leg is on a Major Collector, Minor Arterial, Major Arterial, Express Way, State Highway, All others shall be } 25'$$



$$D_1 \neq D_2, A \neq B$$

$$C = \sqrt{A^2 + B^2 - 2AB \cos \Delta}$$

$$\phi = 90^\circ - \left[\cos^{-1} \left(\frac{B^2 + C^2 - A^2}{2BC} \right) \right]$$

$$R = \text{See R above}$$

NOTES:

1. See Std. Dwg. S-3 for D_1 or D_2 which equals D.
2. Returns shall be constructed in accordance with Section 303-5 of the Standard Specified for Public Works Construction, Current Edition, A.P.W.A..
3. Concrete shall be Class 520-C-2500 Portland Type V Cement, Air Entrained.
4. Expansion Joints shall be Constructed in accordance with Std. Dwg. S-9.

REVISED Date: _____

CITY OF COACHELLA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY:

[Signature]
CITY ENGINEER RCE 14456

10-1-77
DATE

STANDARD RETURNS

STD. DWG. S-4