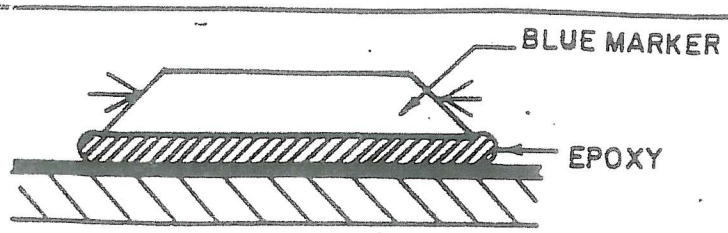
CITY ADOPTED STANDARD DRAWINGS

Last Update July 1, 2002

Drawing Number	Description
1	Fire Hydrant Markers
2	Median Taper and Nose Flare
3	Standard Street Widths
4	Typical Lot Grading
5	Backflow Preventer / Fire Hydrant Detail
6	Bus Bench Pad – Type A
7	Bus Bench Pad – Type B
8	Curb Inlet Stencil

Other Drawings

Modified G-17	Alley Apron
Modified G-24	Trench Resurfacing



DETAIL A

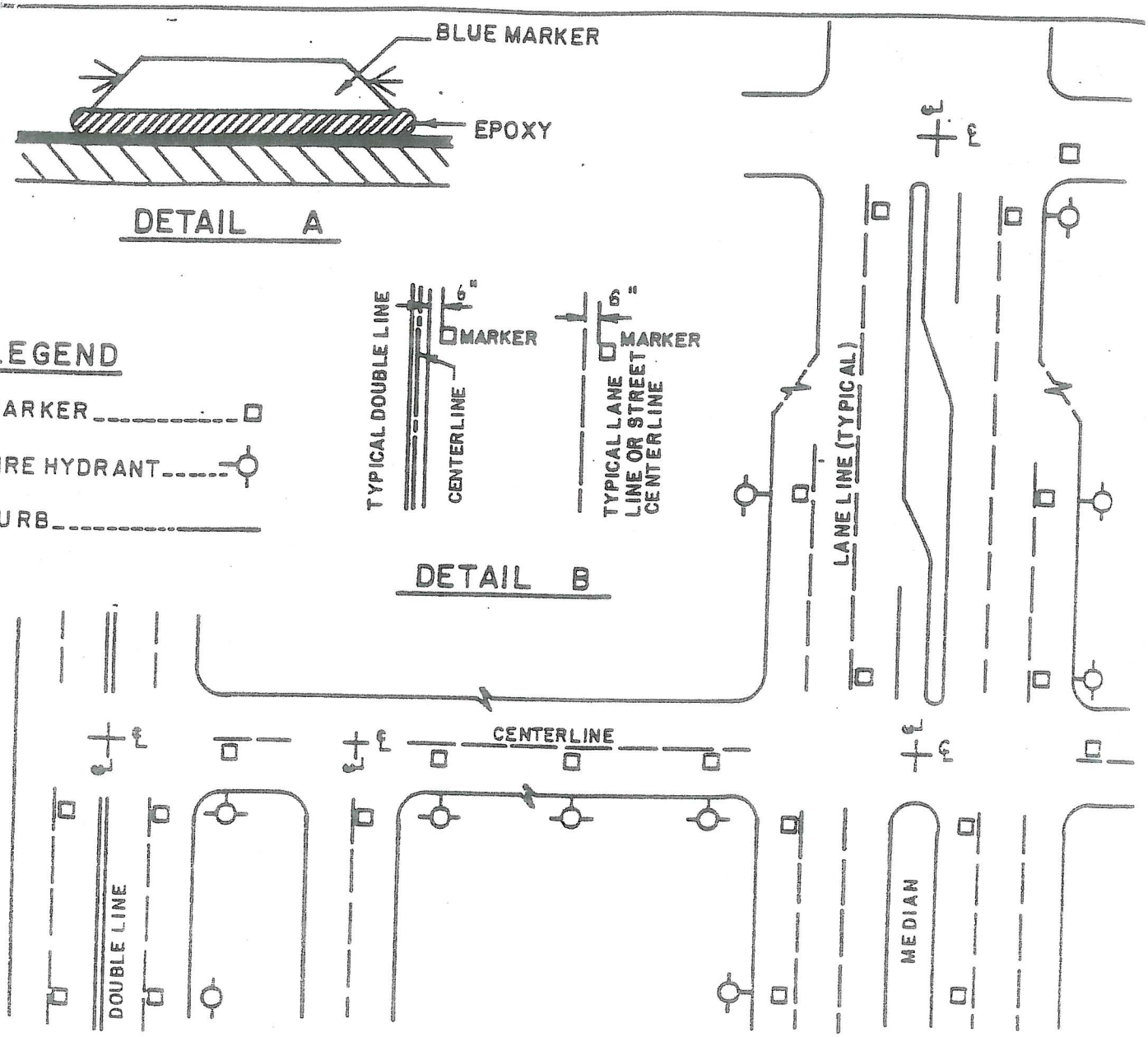
DETAIL B

LEGEND

MARKER

FIRE HYDRANT

CURB



REQUIRED LOCATIONS FOR FIRE HYDRANT MARKERS

NOTES

1). MARKERS MUST BE INSTALLED AT ALL NEW AND RELOCATED HYDRANTS AND WITHIN ALL RESURFACING PROJECTS.

2). FIRE DEPARTMENT WILL PROVIDE LOCATION(S) FOR ALL MARKERS IN PRD'S, COMMERCIAL LOTS AND ALL OTHER AREAS OUTSIDE OF PUBLIC RIGHT OF WAY.

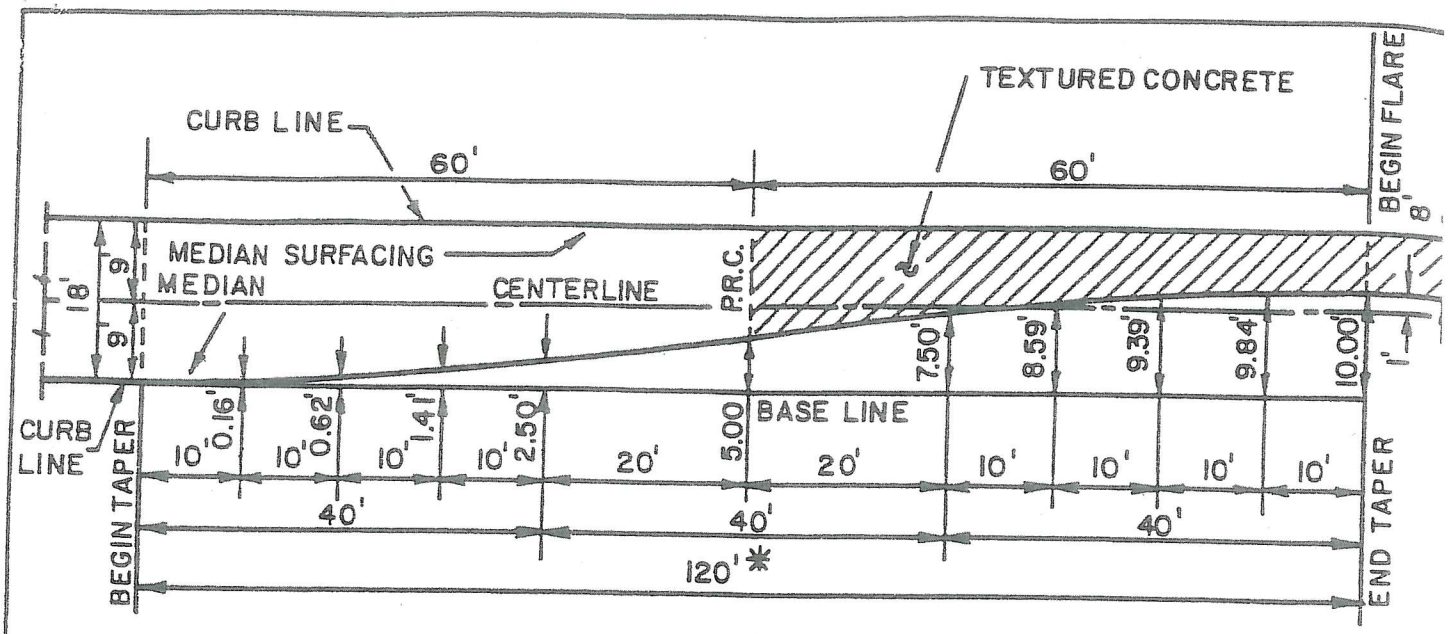
3). MARKERS: SHALL BE BLUE 2-WAY STIMSONITE LIFELITE 88AB OR EQUAL.

4). ADHESIVE: AN AMPLE AMOUNT OF TWO PART (A & B) EPOXY OR EQUAL.

5). SURFACES: CLEAN AND DRY PRIOR TO INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.

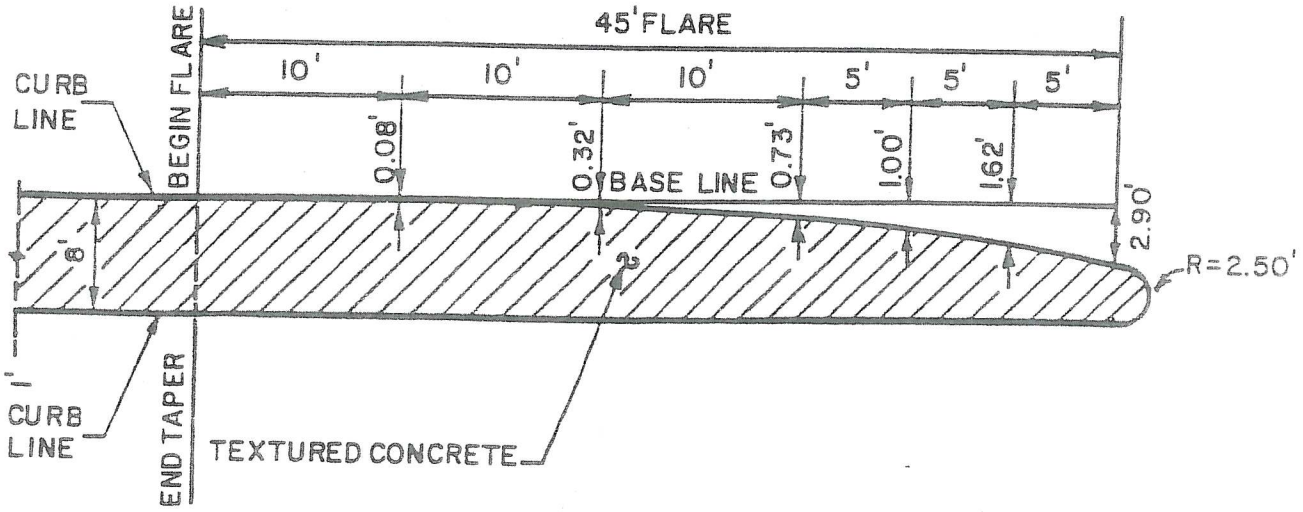
6). INSTALL MARKERS WITH REFLECTIVE SURFACES FACING ONCOMING VEHICLES AND OFFSET 6" FROM LANE LINES. FOR STREETS WITHOUT LANE LINES OR STREETS WITH RAISED PAVEMENT MARKERS AND NO PAINTED LANE LINES, INSTALL MARKERS ON CENTERLINE OR IN LINE WITH EXISTING MARKERS.

REV.	APPROVED	DATE	CITY OF SANTEE	John P. Sullivan 11/82
				CITY ENGINEER DATE
			FIRE HYDRANT MARKERS	SUPPLEMENTAL STANDARD NO. 1



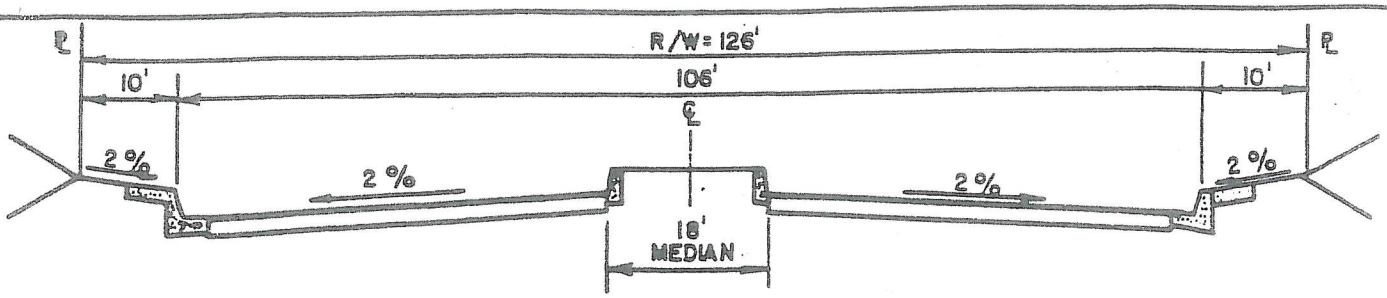
*NOTE:
FOR STREETS REQUIRING LONGER OR SHORTER TAPERS THE DIMENSIONS MAY BE REDUCED OR EXTENDED IN A PROPORTIONATE MANNER, BUT THE TAPER SHALL BE A MINIMUM OF 60 FEET IN LENGTH.

TAPER DETAIL

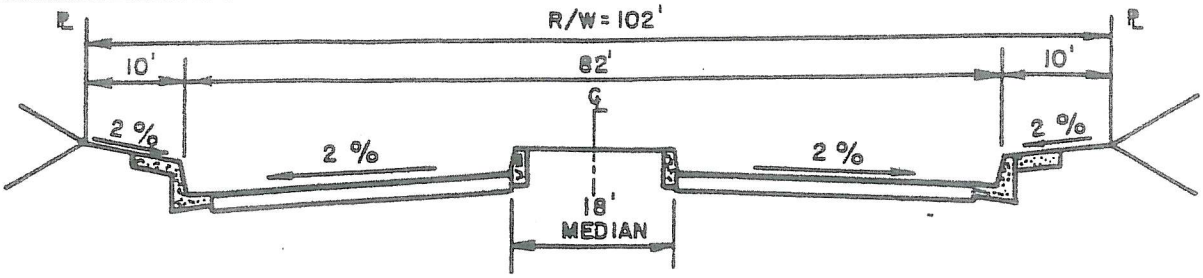


DETAIL NOSE FLARE

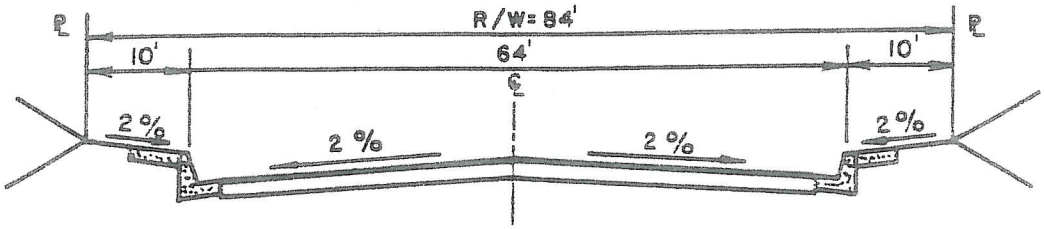
REV.	APPROVED	DATE	CITY OF SANTEE	
			MEDIAN TAPER AND NOSE FLARE	CITY ENGINEER 11/12/82 DATE
				SUPPLEMENTAL STANDARD NO 2



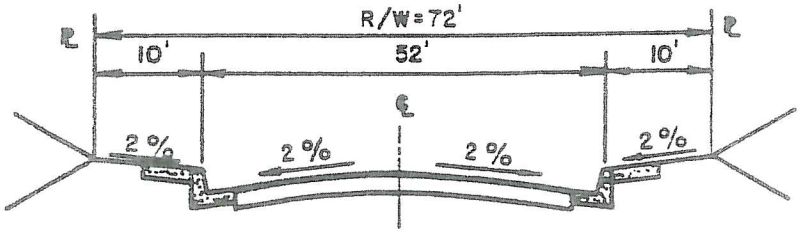
PRIME ARTERIAL STREET



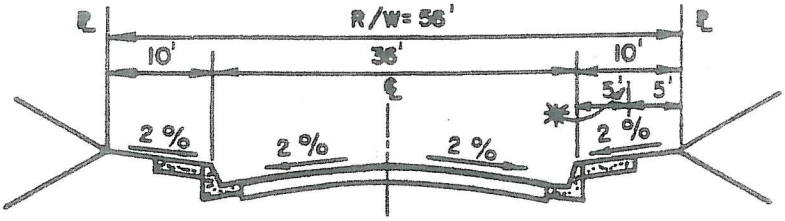
MAJOR STREET



COLLECTOR STREET



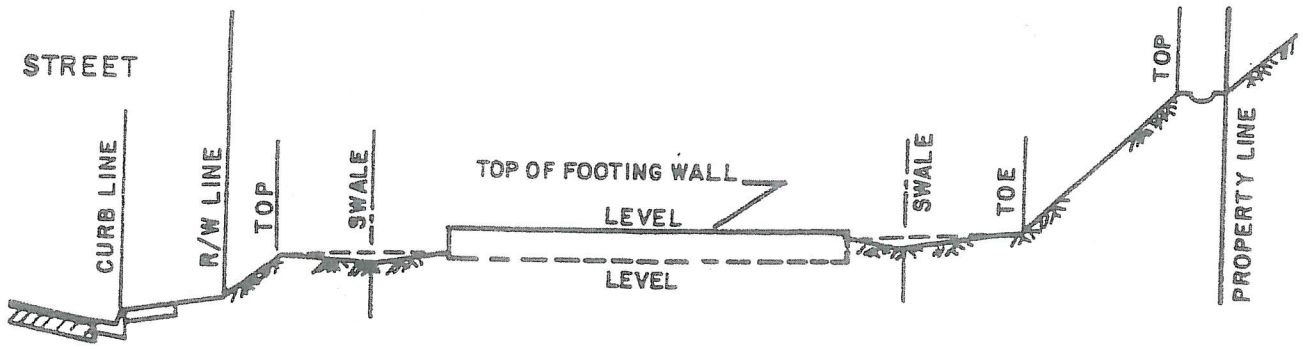
INDUSTRIAL STREET



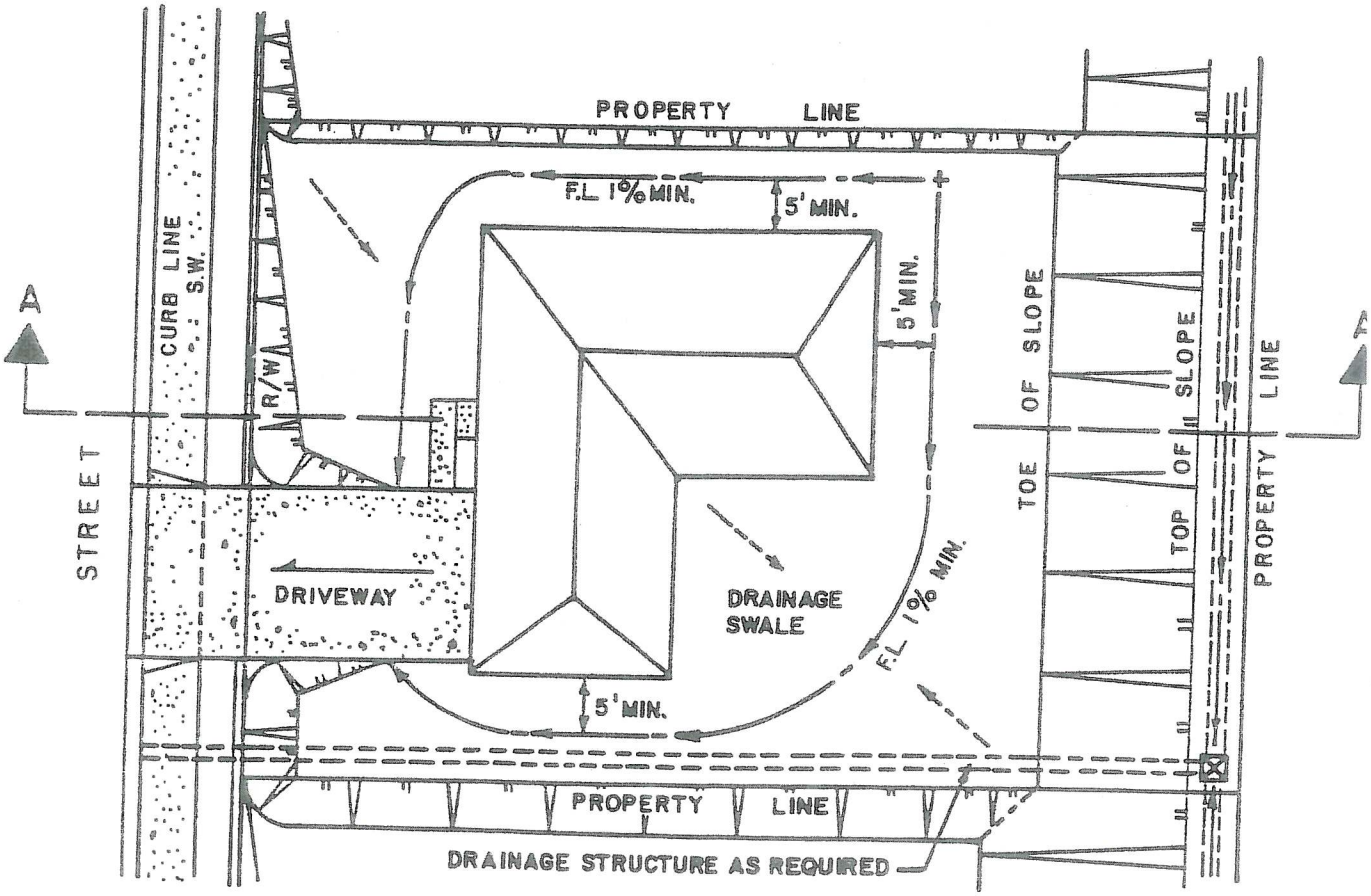
* TYPICAL SIDEWALK WIDTH

LOCAL & CUL DE SAC STREETS

REV.	APPROVED	DATE	CITY OF SANTEE	
			STANDARD STREET WIDTHS	CITY ENGINEER — DATE 11/12/8
				SUPPLEMENTAL STANDARD NO. 3



SECTION A-A



PLAN

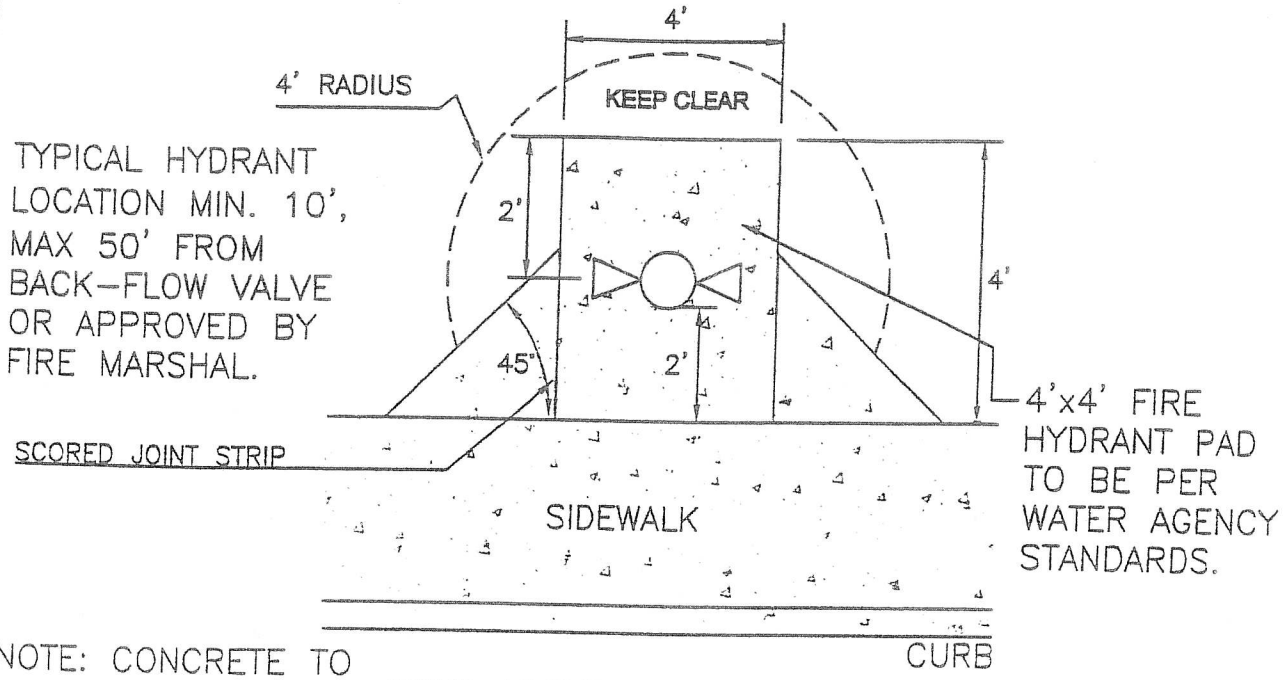
NOTES

1). UNLESS OTHERWISE NOTED ALL DRAINAGE MUST BE CONVEYED TO STREET.

2). NON-EROSIVE DRAINAGE SURFACE REQUIRED WHERE FLOW IS COLLECTED.

3). FINISH GRADING SHALL PROVIDE A MINIMUM POSITIVE DRAINAGE 5' AWAY FROM THE BUILDING UNLESS SPECIFICALLY APPROVED OTHERWISE BY THE SOILS REPORT.

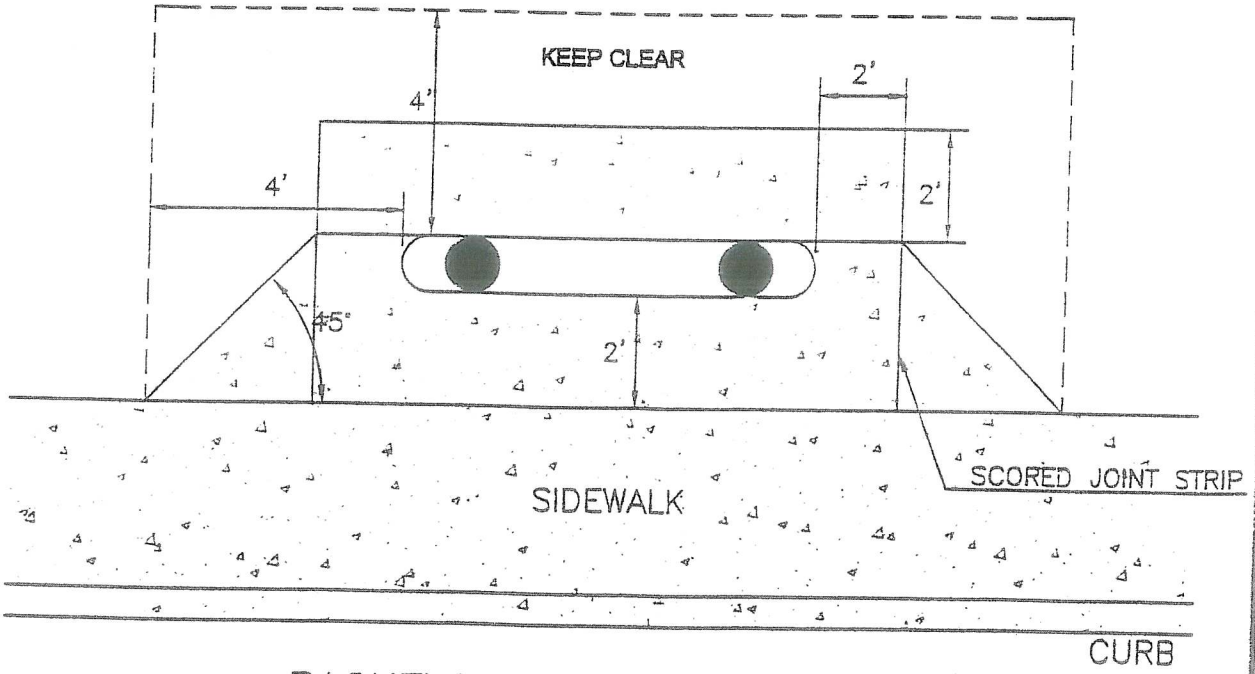
REV.	APPROVED	DATE	CITY OF SANTEE	
			TYPICAL LOT GRADING	CITY ENGINEER — DAT
				SUPPLEMENTAL STANDARD NO. 4



NOTE: CONCRETE TO BE 6" THICK PER WATER AGENCY STANDARDS SECTION 03000.

FIRE HYDRANT PAD DETAIL

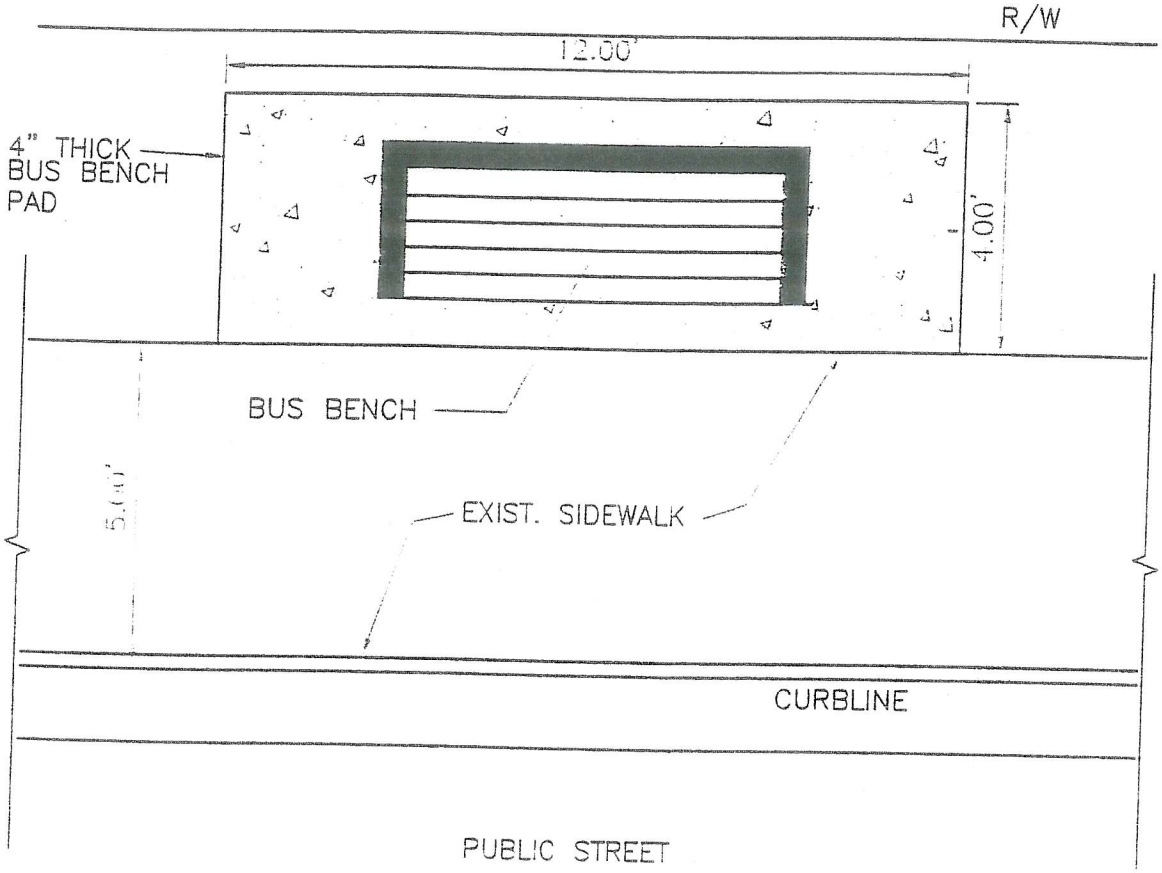
NOT TO SCALE



BACKFLOW PREVENTOR PAD DETAIL

REVISED 6/17/2003 BY SM

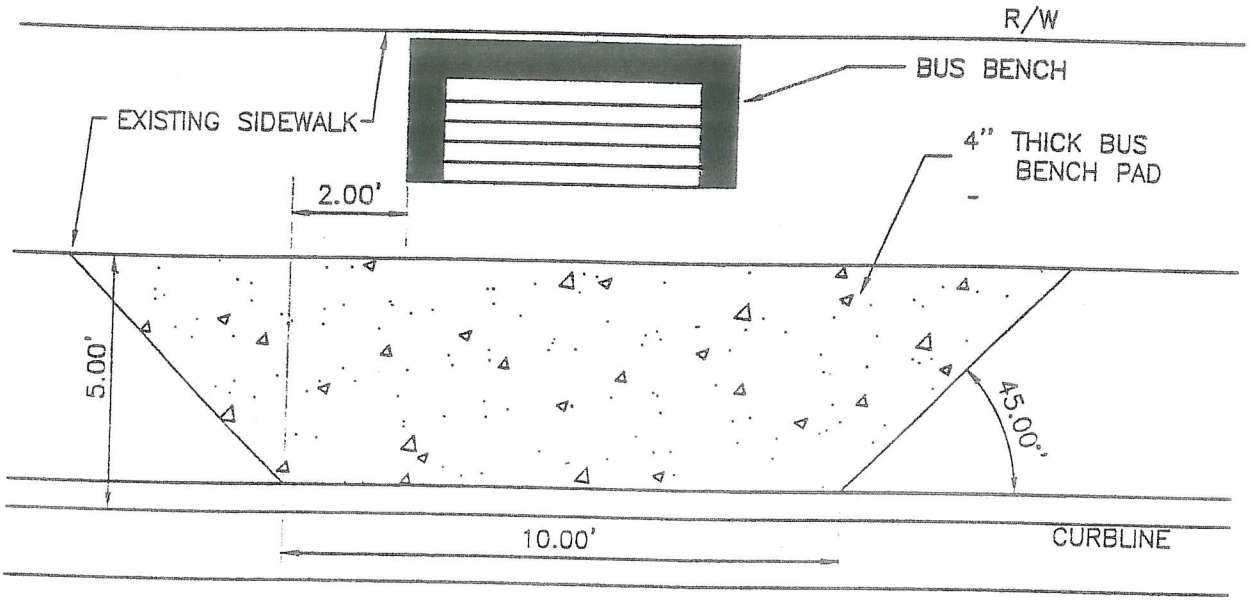
CITY OF SANTEE	ACCEPTED BY: 7/17/03
BACKFLOW PREVENTOR / FIRE HYDRANT DETAIL (NEW CONSTRUCTION)	CITY ENGINEER RCE 43012 DATE
	SUPPLEMENTAL STANDARD NO. 5



NOTES

1. NO CONCRETE SHALL BE PLACED UNTIL FORMS AND SUBGRADE ARE INSPECTED BY THE CITY OF SANTEE
2. CONCRETE SHALL BE 520-C-2500
3. BUS BENCH PAD SHALL DRAIN AT 2% MINIMUM IN SAME DIRECTION AS SIDEWALK

CITY OF SANTEE	ACCEPTED BY: 7/18/02 CITY ENGINEER RCE 43012 DATE
BUS BENCH PAD – TYPE A	SUPPLEMENTAL STANDARD NO. 6

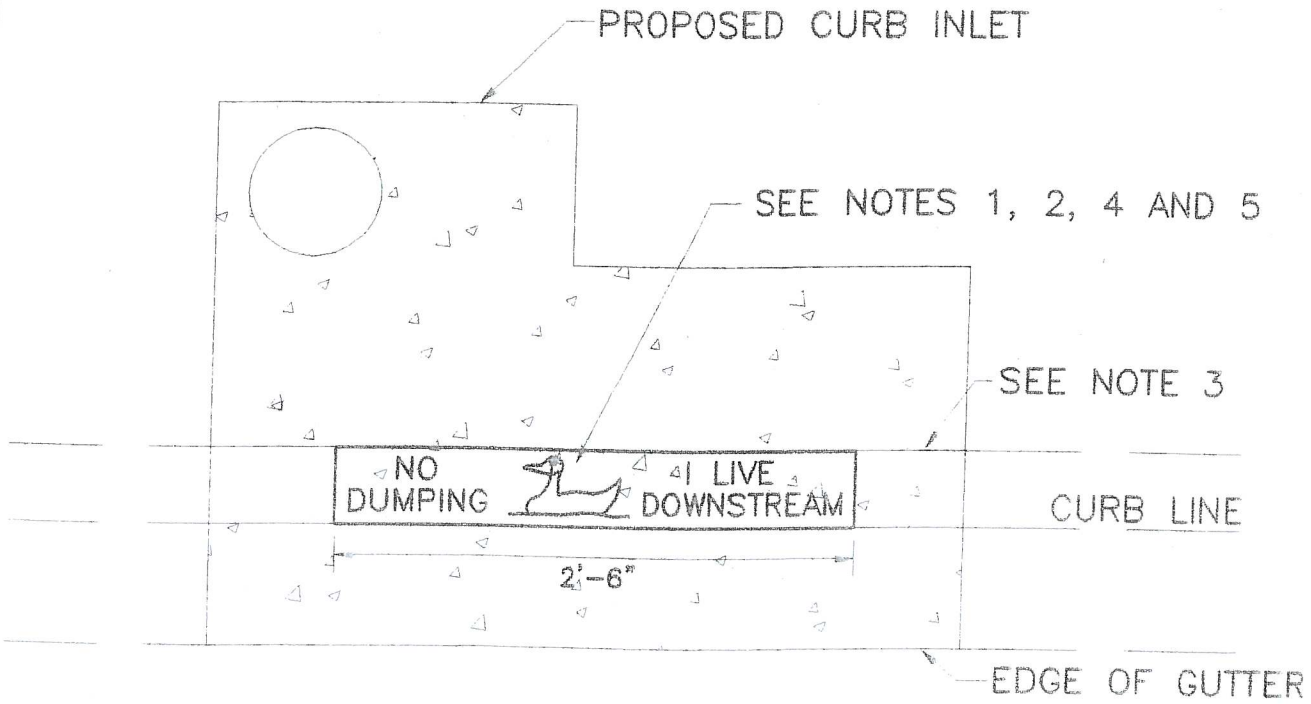


PUBLIC STREET

NOTES

1. NO CONCRETE SHALL BE PLACED UNTIL FORMS AND SUBGRADE ARE INSPECTED BY THE CITY OF SANTEE
2. CONCRETE SHALL BE 520-C-2500
3. BUS BENCH PAD SHALL DRAIN AT 2% MINIMUM IN SAME DIRECTION AS SIDEWALK

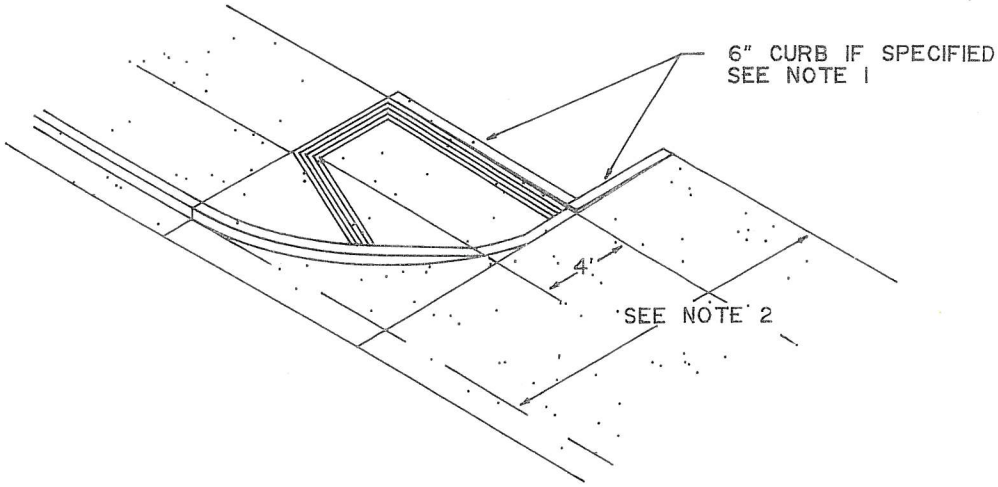
CITY OF SANTEE	ACCEPTED BY: CITY ENGINEER RCE 43012 DATE 3/31/03
BUS BENCH PAD – TYPE B	SUPPLEMENTAL STANDARD NO. 7

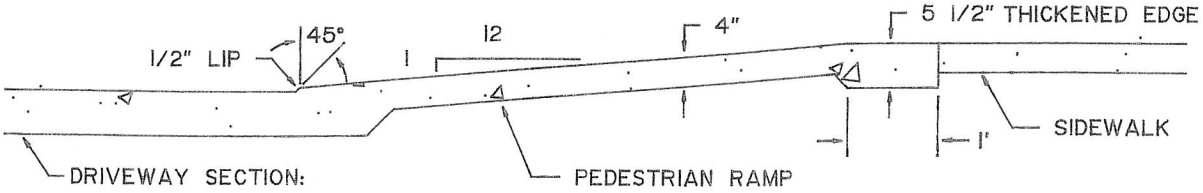


NOTES:

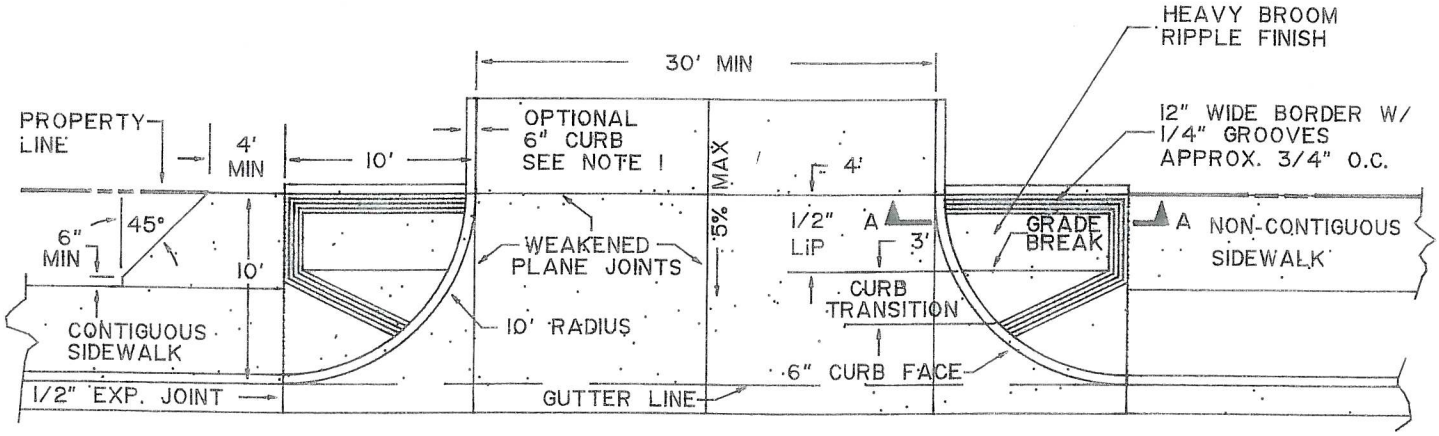
1. CURB INLET SHALL BE IMPRINTED WITH A CONCRETE STAMPING TOOL TO PROVIDE THE PATTERN SPECIFIED, WHICH SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE CITY PROJECT ENGINEER.
2. THE IMPRESSION SHALL BE APPROXIMATELY 1/4", BUT NOT TO EXCEED 1/2" IN DEPTH.
3. PROVIDE 1/4" TOOLED GROOVE IN-LINE WITH BACK OF ADJACENT CURB.
4. CURB INLET STENCIL SHALL BE CENTERED.
5. CURB INLET LENGTHS GREATER THAN 10 FEET SHALL HAVE TWO IMPRINTS EQUAL DISTANCE FROM EACH END OF THE CURB INLET AND BETWEEN EACH OTHER.

CITY OF SANTEE	ACCEPTED BY: 2/21/02
CURB INLET STENCIL (NEW CONSTRUCTION)	CITY ENGINEER RCE 43012 DATE
	SUPPLEMENTAL STANDARD NO. 8





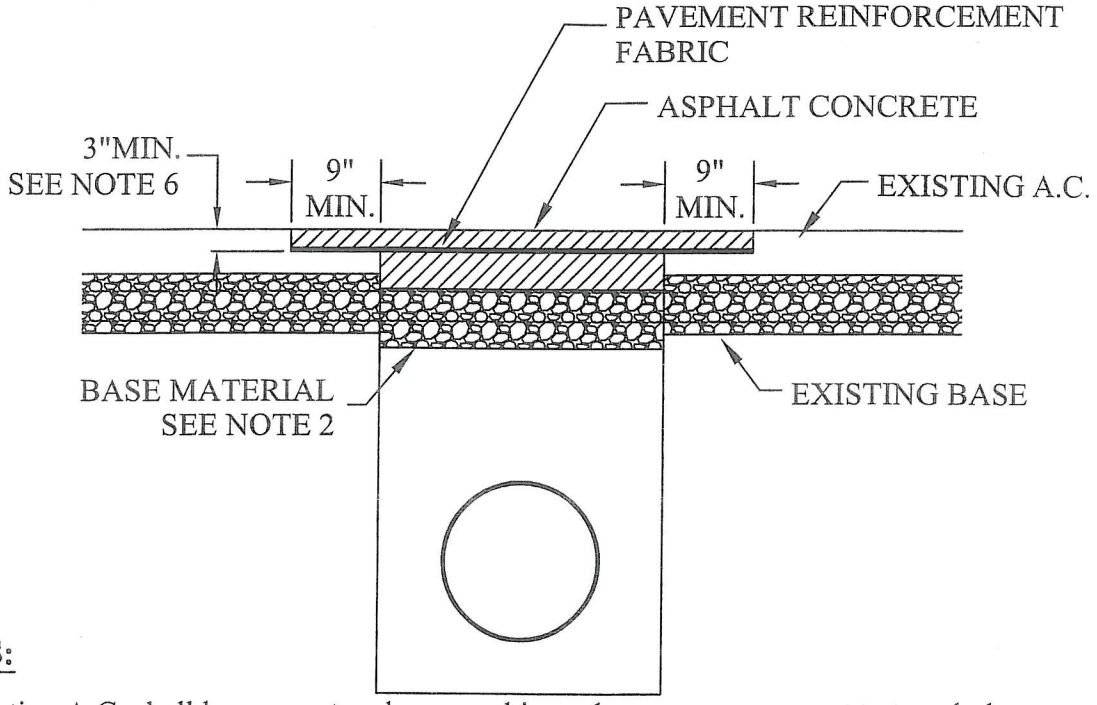
SECTION A-A



NOTES:

1. WHERE SHOWN ON PLANS, CONSTRUCT CURB
2. DIMENSIONS MAY VARY TO MAINTAIN A 5% MAX GRADE, 14' MIN
3. CONCRETE SHALL BE 564-C-3250
4. APRON BASE MATERIAL SHALL BE CRUSHED AGGREGATE BASE, 6" MIN THICKNESS
5. SEE STD DWG G-2 FOR CURB AND GUTTER
6. SEE STD DWG G-7 FOR SIDEWALK
7. SEE STD DWG G-17 FOR DIMENSIONS AND ELEVATIONS TO BE SHOWN ON PLANS

Rev.	By	Accepted	Date	CITY OF SANTEE	Accepted by:
				ALLEY APRON	Director of Public Works Date
				(MODIFIED G-17)	RCE NO. 12725
					STANDARD DRAWING NO.



NOTES:

1. Existing A.C. shall be saw cut and removed in such a manner so as not to tear, bulge or displace adjacent pavement. Edges shall be clean and vertical. All cuts shall be parallel or perpendicular to street centerline, when practical.

2. Base material to be replaced to same thickness as existing base, 6" minimum A.C. may be substituted for base material.

3. A tack coat of asphaltic emulsion or paving asphalt shall be applied to existing A.C. at all contact surfaces prior to resurfacing.

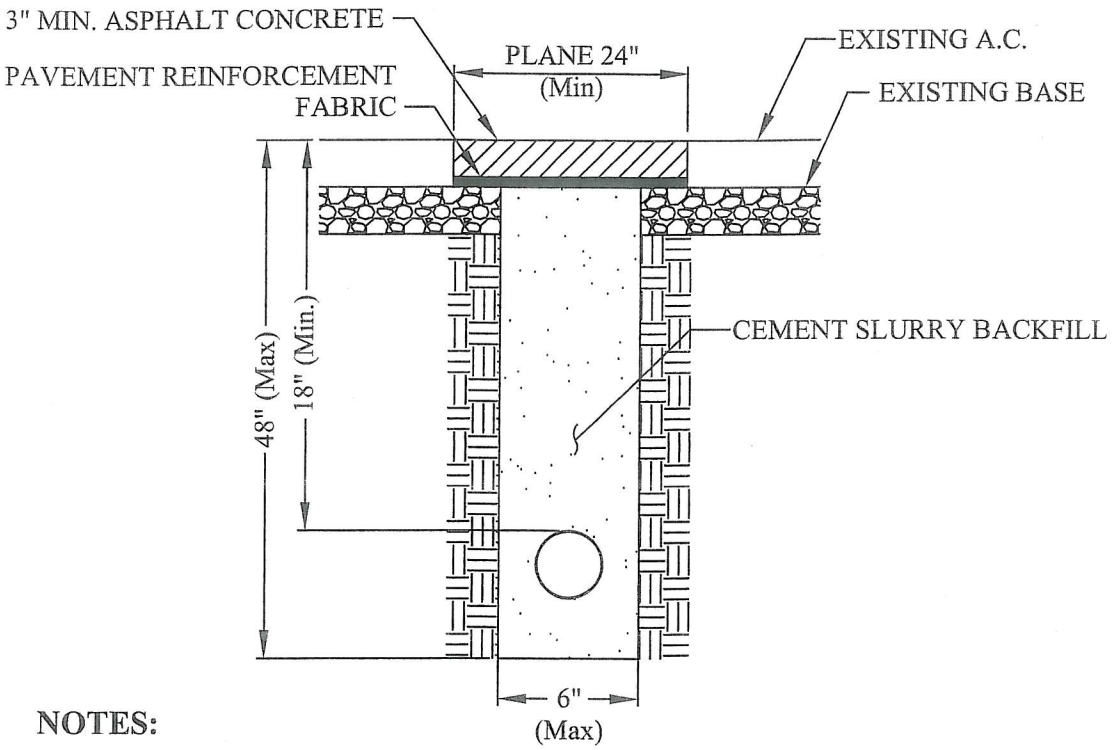
4. Asphaltic concrete resurfacing specifications:
   a. Minimum total thickness shall be one inch greater than existing A.C.
   b. A.C. shall be C2, PG 64-10 hot plant mix.
   c. For pavement sections of 4"or greater, a 2" minimum base coarse of B, PG 64-10 hot plant mix shall be placed.
   d. Finish coarse shall be placed with a paving machine or spreader box. Density and smoothness of the patch shall conform to Section 302-5.6.2 of the Standard Specifications For Public Works Construction.

5. Chip or slurry sealing shall be applied as required by City.

6. Sloughing of the trench under pavement shall be cause for requiring additional removal and replacement of pavement and base.

7. Plane a minimum of 3" of existing A.C. 9" on each side of trench. If existing A.C. is less than 3" remove and replace all A.C. 9" on each side of trench.

CITY OF SANTEE	STANDARD DRAWING NO.	MODIFIED G-24
TRENCH RESURFACING	ACCEPTED BY: Steven Cresswell 47180 CITY ENGINEER RCE DATE: 10-10-2007	



NOTES:

1. Cement Slurry Backfill:
   a. Cement slurry backfill shall have a minimum slump of 5 inches.
   b. Cement slurry backfill shall be thoroughly consolidated to encase conduits. Tampers or vibrators shall be used.
   c. Cement slurry backfill shall be as follows:
      Alleys and local residential streets ..... Class (100-E-100)
      All other streets ..... Class (190-E-400)

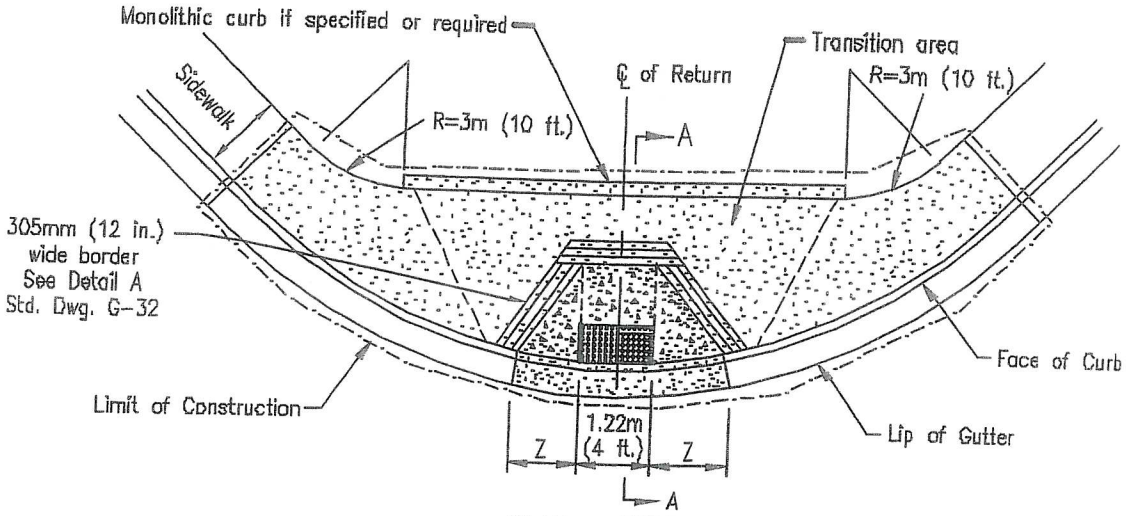
2. A tack coat shall be applied to the cement slurry backfill and existing asphalt pavement prior to placing the new asphalt surface, as required.

3. Asphalt Concrete Resurfacing:
   a. Cement slurry shall be placed level with existing A.C. to accomodate for vehicular traffic.
   b. Allow cement slurry backfill 48 hours minimum to cure before resurfacing, unless approved by the City Project Engineer or City Inspector.
   c. Plane existing asphalt pavement and slurry backfill 3" minimum.
   d. Thickness shall match the existing A.C. with a minimum of 3 inches.
   e. A.C. shall be C2, PG 64-10 hot mix.
   f. Pavement reinforcemeent fabric, shall be placed the full width of cold plane 24" to bridge the utility trench.

4. A.C. resurfacing shall be sealed or chip sealed when required by the City's Project Engineer to match existing surface.

5. Existing A.C. Pavement shall saw cut 6" max to provide a straight, vertical pavement edge unless a rockwheel is used for excavation.

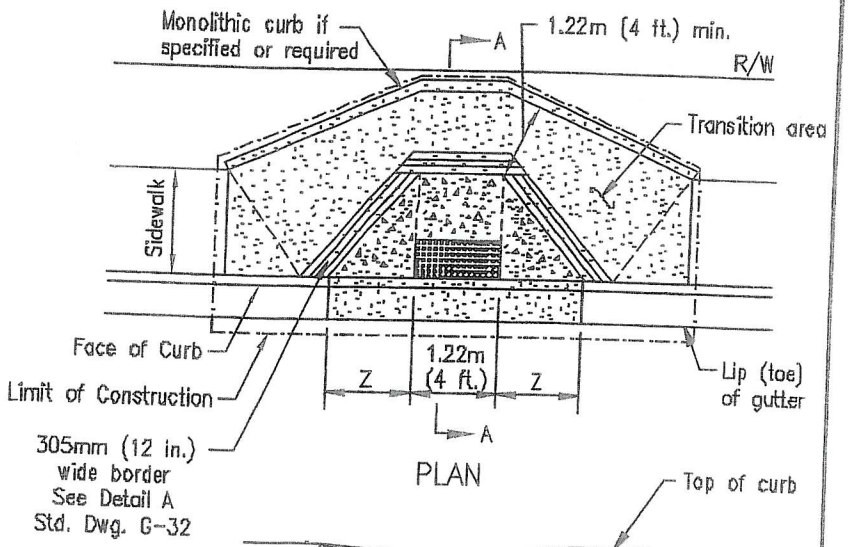
CITY OF SANTEE	STANDARD DRAWING NO.	MODIFIED G-34
NARROW TRENCHING BACKFILL & RESURFACING	ACCEPTED BY: Steven Crosswell 47180 CITY ENGINEER RCE DATE: 10-10-2007	



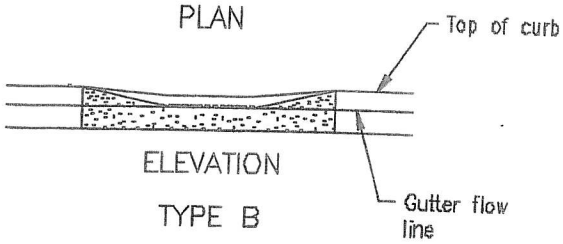
PLAN – TYPE A

NOTES

1. See Drawing G-32 for general notes.
2. For truncated domes details, please see Drawing G-30.
3. Z side slope shall be 10:1.
4. Landing cross slope shall be 2% max. in both directions. No exceptions.

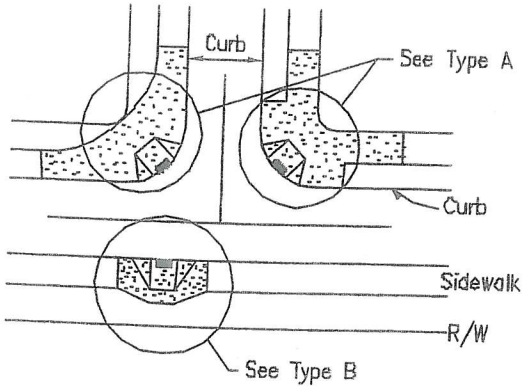


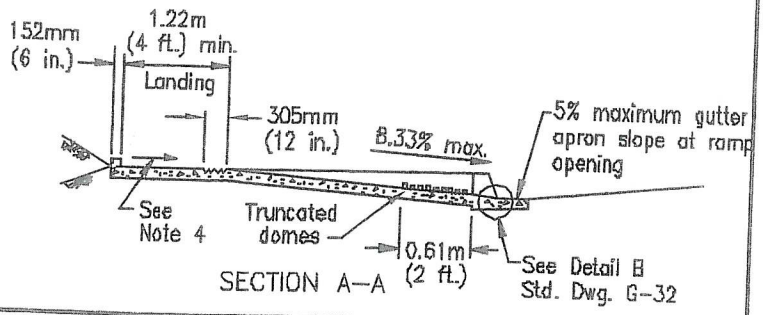
PLAN



ELEVATION

TYPE B





SECTION A–A

Revision	By	Approved	Date
ORIGINAL		M.Bahmanian	4/86
Add Metric		T. Stanton	03/03
UPDATE		D. Davies	12/04

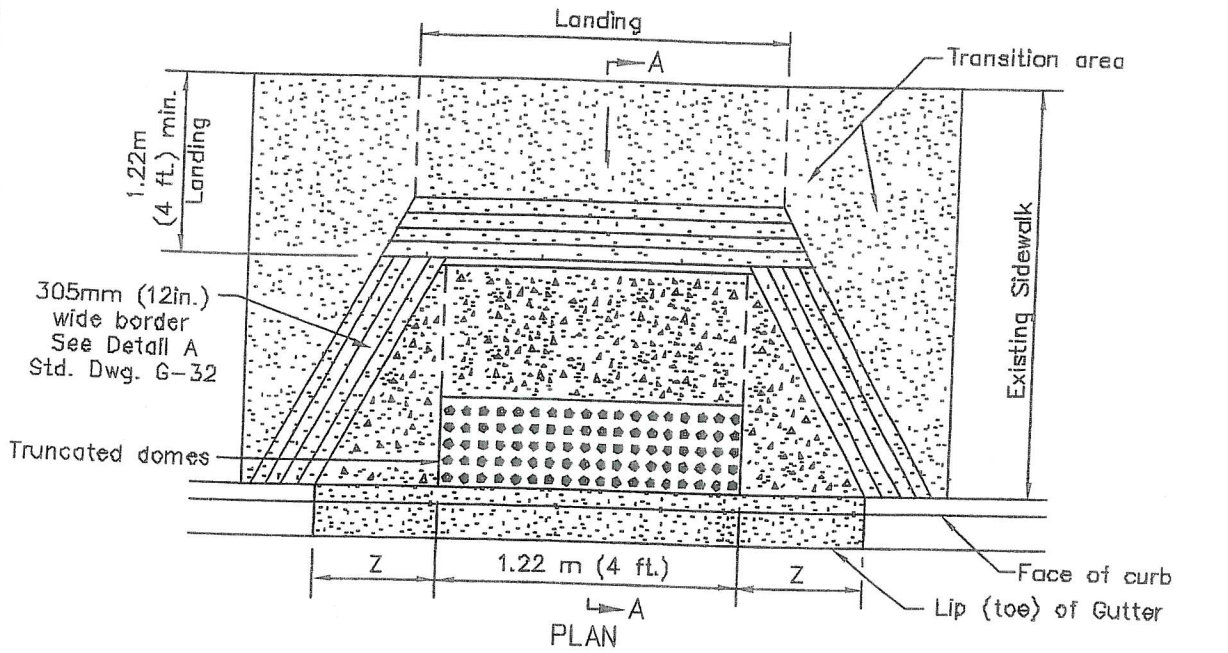
SAN DIEGO REGIONAL STANDARD DRAWING

CURB RAMP – TYPES A and B
(New Construction)

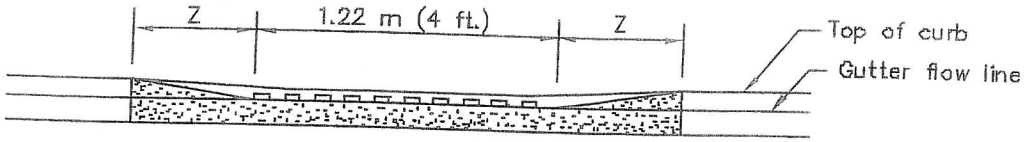
RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

Chairperson R.C.E. 19246 Date

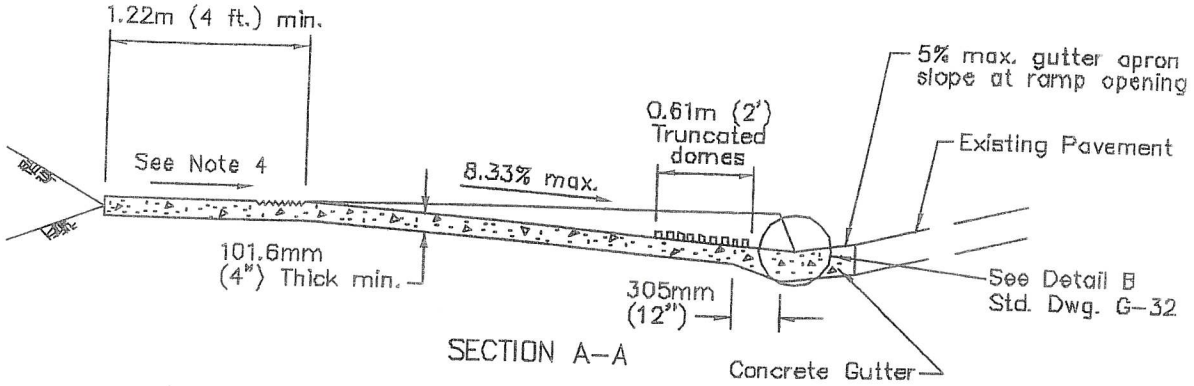
DRAWING NUMBER G-27



PLAN



ELEVATION



SECTION A–A

NOTES

1. See Standard Drawing G–32 for general notes.
2. Type A–1 is a designation for ramp at curb return.
3. Type B–1 is a designation for ramp at straight curb (shown above).
4. Landing cross slope shall be 2% max. in both directions. No exceptions.
5. For truncated domes details, please see Standard Drawings G–30.
6. Z side slope shall be 10:1.

Revision	By	Approved	Date
ORIGINAL		M.Bahmanian	2/95
Add Metric		T. Stanton	03/03
UPDATE		D. Davies	12/04

SAN DIEGO REGIONAL STANDARD DRAWING

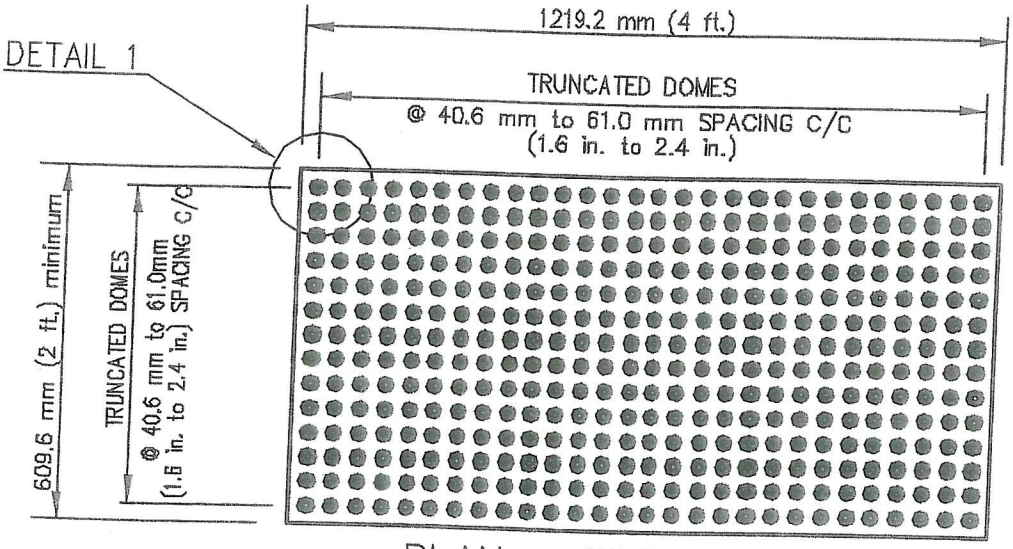
CURB RAMP – TYPE A–1 and B–1
(For Existing Sidewalk)

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

T. Stanton 12-07-2004

Chairperson R.C.E. 19246 Date

DRAWING NUMBER G–28

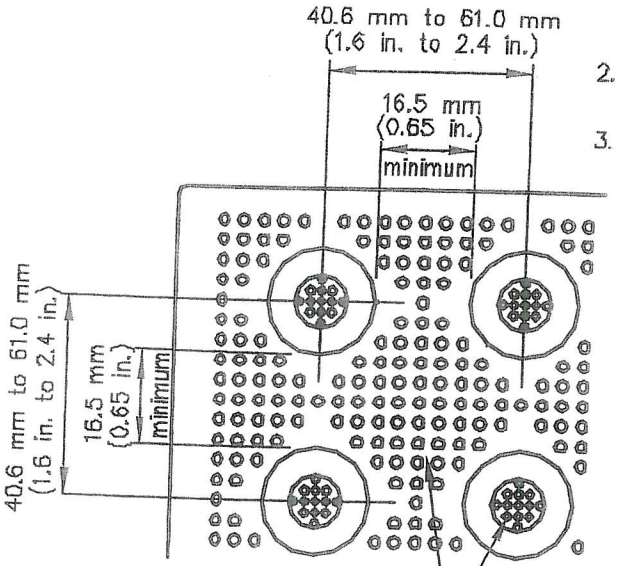


PLAN – TILE

NOT TO SCALE

NOTES

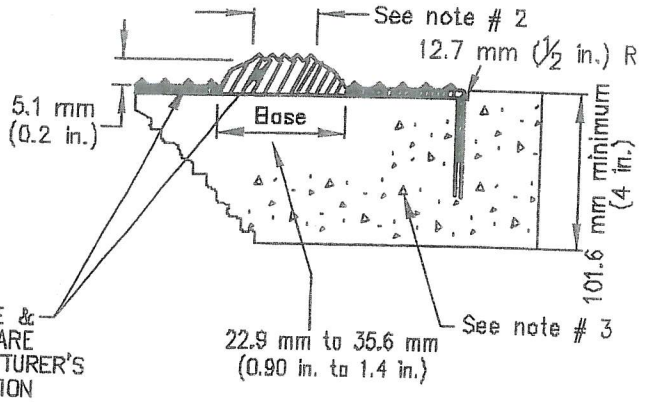
1. Detectable warning surface color shall be yellow conforming to federal standards 595B Table IV, color No. 33538, or as specified by the agency. Color shall be homogeneous throughout the tile.
2. Truncated dome top diameter of 50% of the base diameter minimum to 65% of the base diameter maximum.
3. During and after the tile installation and the concrete curing stage, it is imperative that there is no walking, leaning or external forces placed on the tile to rock the tile, causing a void between the underside of tile and concrete.



DETAIL 1

NOT TO SCALE

NOTE:
PATTERN, SIZE & ORIENTATION ARE PER MANUFACTURER'S RECOMMENDATION



Revision	By	Approved	Date
ORIGINAL		G. Parkinson	2/95
Add Metric		T. Stanton	03/03
UPDATE		D. Davies	12/04

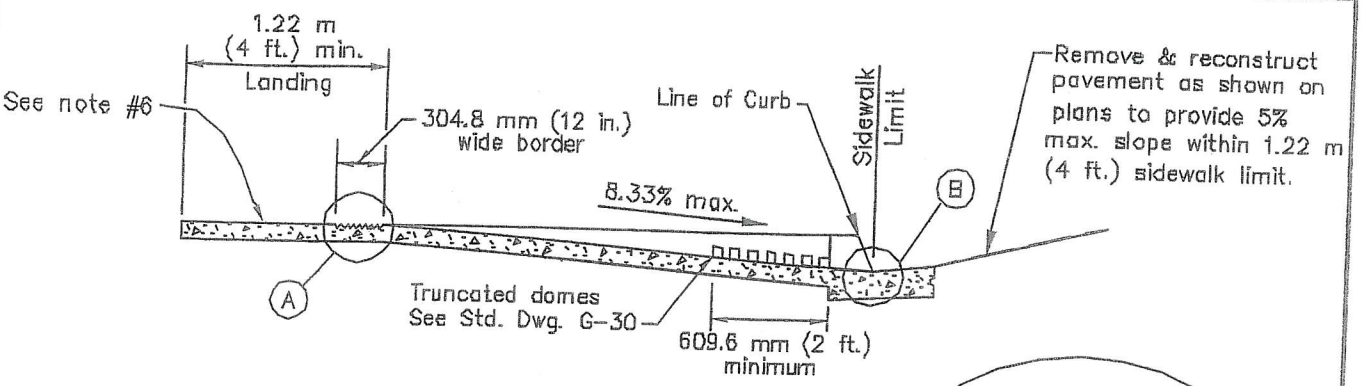
SAN DIEGO REGIONAL STANDARD DRAWING

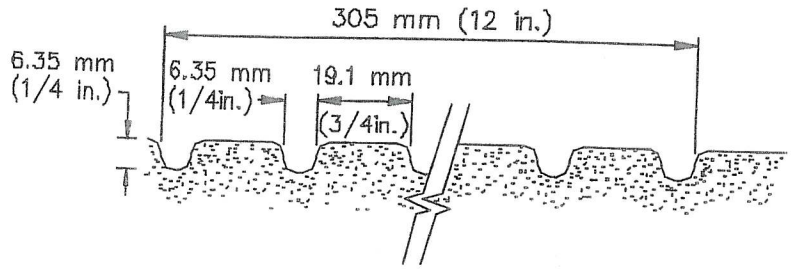
TRUNCATED DOMES

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

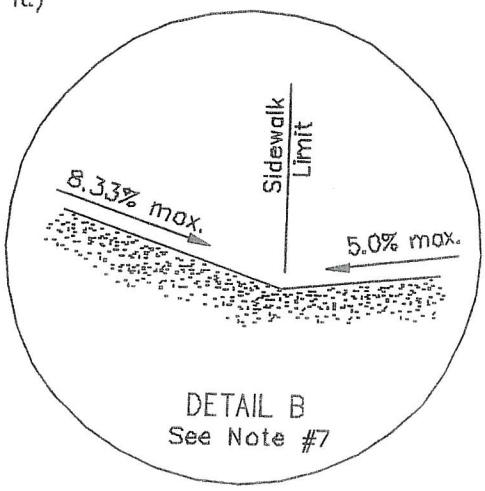
Chairperson R.C.E. 19246 Date

DRAWING NUMBER G-30





DETAIL A
305 mm (12 in.) wide border



DETAIL B
See Note #7

NOTES

1. The removal of existing concrete curb, gutter, sidewalk and pavement for pedestrian ramp installation shall comply with Standard Drawing G-11. For construction of Curb Ramps on existing sidewalks, removal of additional sidewalk maybe required to comply with ADA requirements to meet the existing grade.
2. Areas shown thus: shall have a medium to heavy broom texture finish, perpendicular to the axis of the ramp.
3. Areas shown thus: are the minimum required for a complete ramp installation and shall be concrete class 520-C-2500.
4. If obstructions such as inlets, utility poles, fire hydrants, etc., are encountered, the ramp locations may be adjusted upon the approval of the Resident Engineer, or Local Agency Inspector.
5. The ramp slopes will be measured relative to the sidewalk slope. Adjoining slope beyond ramp shall not exceed 20:1 (5%).
6. Landing cross slope shall be 2% max. in both directions. No exceptions.
7. All projects (new construction & alteration), the lower end of 1.22 m (48 in.) width of the ramp shall be flush and free of abrupt changes between the bottom of the ramp and the street pavement surface.
8. There shall be no more than 203.2 mm (8 in.) separation between the face of the curb and any given point on the nearest edge of the truncated domes.

Revision	By	Approved	Date
ORIGINAL		G.Parkinson	2/95
Add Metric		T. Stanton	03/03
UPDATE		D. Davies	12/04

SAN DIEGO REGIONAL STANDARD DRAWING

GENERAL NOTES FOR CURB RAMPS

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

Chairperson R.C.E. 19246 Date

DRAWING NUMBER G-32