CITY OF CUPERTINO
STANDARD DETAILS

CUPERTINO CITY HALL
10300 TORRE AVENUE
CUPERTINO, CA 95014

(408) 777-3200

CITY OF
CUPERTINO

Department of Public Works
Ralph A. Qualls, Jr.
Director of Public Works

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CITY OF CUPERTINO
DRAFTING STANDARDS

	EXISTING	PROPOSED	DESCRIPTION
1	DASHED LINE	SOLID LINES	
2	8" V.C.P.	8" V.C.P.	SANITARY SEWER AND FLUSHING INLET
3	8" V.C.P.	8" V.C.P.	SANITARY SEWER AND MANHOLE
4	12" R.C.P.	12" R.C.P.	STORM SEWER AND MANHOLE
5			STORM DROP INLET AND LATERAL
6	(SPECIFY SIZE AND STYLE)		WATER MAIN
7			FIRE HYDRANT
8			GATE VALVE
9			BLOW - OFF
10			TEE (WATER)
11			CROSS (WATER)
12			REDUCER
13	M	M	MONUMENT
14			CURB & GUTTER
15			ELECTROLIER WITH CONDUIT
16	G	G	GAS LINES - INDICATE SIZE
17	T	T	TELEPHONE DUCT (CONDUIT) INDICATE SIZE
18	SS	SS	STREET NAME SIGN
19			TRAFFIC SIGNS
20			EXISTING EDGE OF PAVEMENT

CITY OF CUPERTINO GENERAL NOTES

1. All work shall be in accordance with the State of California Department of Transportation Standard Specifications (latest edition, as amended), and Standard Plans (latest edition, as amended), and City of Cupertino Standard Details. The Contractor shall perform the work described in the specification, and as shown on the drawings, and to the satisfaction of the City Engineer.

2. Approval of these plans shall not release the Owner or Contractor of the responsibility for corrections of mistakes, errors, or omissions contained therein. If during the course of construction of improvements, public interest requires a modification of/or a departure from the City of Cupertino Standard Details or these improvements plans, the City Engineer shall have the authority to require such modification or departure and to specify the manner in which the same is to be completed, at the sole expense of the Owner or Contractor.

3. Approval of these plans by the City Engineer is only for public right-of-way improvements (including storm drain in the right of way), and not for water, sewer or dry utilities. It is the Developer's/Owner's responsibility to coordinate reviews and approval from each of the Utility companies, and to provide approval letters as requested.

4. It shall be the responsibility of the Contractor to ensure the approved plans or the latest revised plans are furnished to its subcontractors, and to ensure the latest approved plans are onsite at all times during construction.

5. The Contractor shall notify the City of Cupertino Public Works Inspector two (2) working days prior to requiring an inspection. Call (408) 777-3104 to schedule Public Works inspections.

6. Construction area traffic control devices shall be installed prior to beginning of work.

7. Notify City of Cupertino Traffic Signal Maintenance for inspection of traffic signal facility foundation excavations at (408) 777-1366, two (2) working days prior to pouring any cabinet or signal foundations relating to the job.

8. The Contractor shall locate underground facilities in the area of work. The Contractor shall contact Underground Service Alert (USA) at 811 two (2) working days in advance of any work for location of the underground facilities.

9. All underground utilities shall be installed and backfilled before placement of the base material and surface structures. If utilities are to be installed subsequently, a written notification from the affected utility company indicating its commitment to bore or tunnel shall be submitted to the City Engineer before proceeding with the work. Underground utilities, except storm drains and sanitary sewers, shall not be permitted in pavement area, with the exception of street crossings, unless approved by the City Engineer.

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ CITY ENGINEER	DATE: 6/29/16

10. All water lines, valves, hydrants, and appurtenances thereto installed within the public right-of-way shall be the property of the water utility company.

11. Storm drain lines installed as part of the work on these plans shall be cleared of all debris and obstructions prior to final acceptance.

12. All trench backfill, fill areas, and base material shall attain a minimum 95% relative compaction. For typical trench sections, except for sanitary sewers, refer to the City Standard Details.

13. The Developer shall pay all costs for moisture-density curves (Calif. Test No. 216E) and any other tests required by the City Engineer during street construction.

14. Trees, roots, and foreign matter in existing or proposed right-of-way shall be removed to a depth of two (2) feet below subgrade and disposed of per Caltrans Standards. In the case of live tree roots from City street trees, Contractor shall contact the City for field observation prior to removing tree roots.

15. Trench plates in the traveled way shall be traffic rated, property secured and shall be recessed upon the request of the Director of Public Works.

16. All trenches located within 5' of the edge of pavement (ie. curb, lip of gutter, edge of pavement, etc.) shall be repaved to the edge of pavement.

17. All new pavement shall match the existing pavement section. A minimum pavement section of 3" AC/6" Class 2 AB is required.

18. Existing pavement that is removed or damaged shall be replaced as required by the City Engineer.

19. Manhole frames and covers shall be brought to finish grade prior to final signoff.

20. Five (5) working days prior to installing permanent striping, the Contractor shall cat track the striping and request review of the cat tracks by the City Traffic Engineer. The City Engineer shall have the right to make changes in the location of the alignment of traffic stripes, pavement markings, and pavement markers.

21. Concrete for use in all concrete structures shall conform to California Department of Transportation Standard Specifications Section 90. Drop inlets, sidewalks, curbs and gutters shall contain 590 lbs. of cement per cubic yard and shall attain a minimum strength of 3,000 psi in 28 days.

22. Drop inlets shall be constructed conforming to City Standard Details unless otherwise noted on the plans. If grate openings align with direction of path of travel, openings shall be no wider than ½". Drop Inlets shall be installed concurrent with the construction of the curb and gutter. "No Dumping Flows to the Bay" plaque shall be installed on the curb adjacent to all inlets.

23. A minimum thickness of five (6) inches of concrete shall be required for commercial driveway approaches and four (5) inches for residential. The driveway approach shall be installed concurrent with the construction of the curb and gutter.

24. One pound of dispersing black shall be mixed with each cubic yard of concrete at the batch plant.

25. City Standard Street Lights shall be installed as required by the Director of Public Works, and shall conform to the City Standard Details and Notes. During construction operations, temporary street lighting shall be provided as necessary to ensure the public safety. Temporary street lights shall be installed at the discretion of, and to the satisfaction of, the Director of Public Works.

26. City standard street monuments shall be constructed at the locations shown on the plans or as directed by the City Engineer.

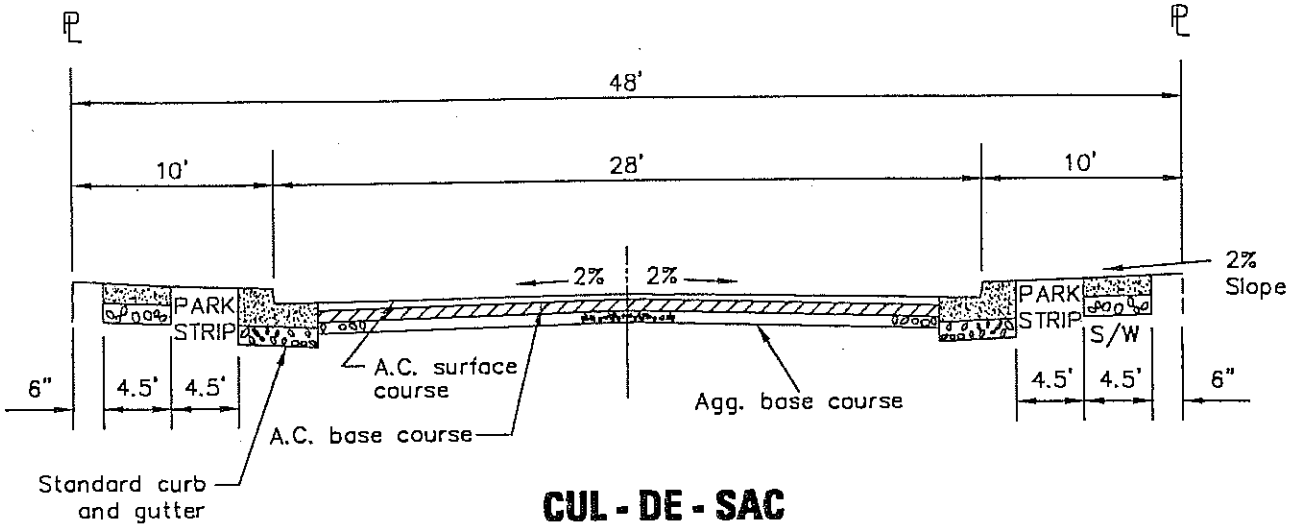
27. New City standard street monuments and other permanent monuments disturbed during construction shall be replaced before acceptance of the improvements by the City Engineer. Attention is directed to Section 8771 of the California Business and Professions Code for the requirements concerning survey monuments. Existing survey monuments shall be located and referenced by or under the direction of a licensed land surveyor or registered civil engineer prior to construction operations, and a corner record or record of survey shall be filed with the County Surveyor of the County of Santa Clara. Existing survey monuments shall be reset to finish grade, and a corner record or record of survey shall be filed with the County Surveyor of the County of Santa Clara prior to the recording of the certificate of completion for the project.

28. Construction survey stakes or marks (control stakes) to establish lines and grades shall be set by the Contractor's surveyor or engineer.

29. Notify the City Inspector two (2) working days in advance of requiring services for checking field staking. Three (3) copies of the cut sheets shall be furnished to the City Inspector.

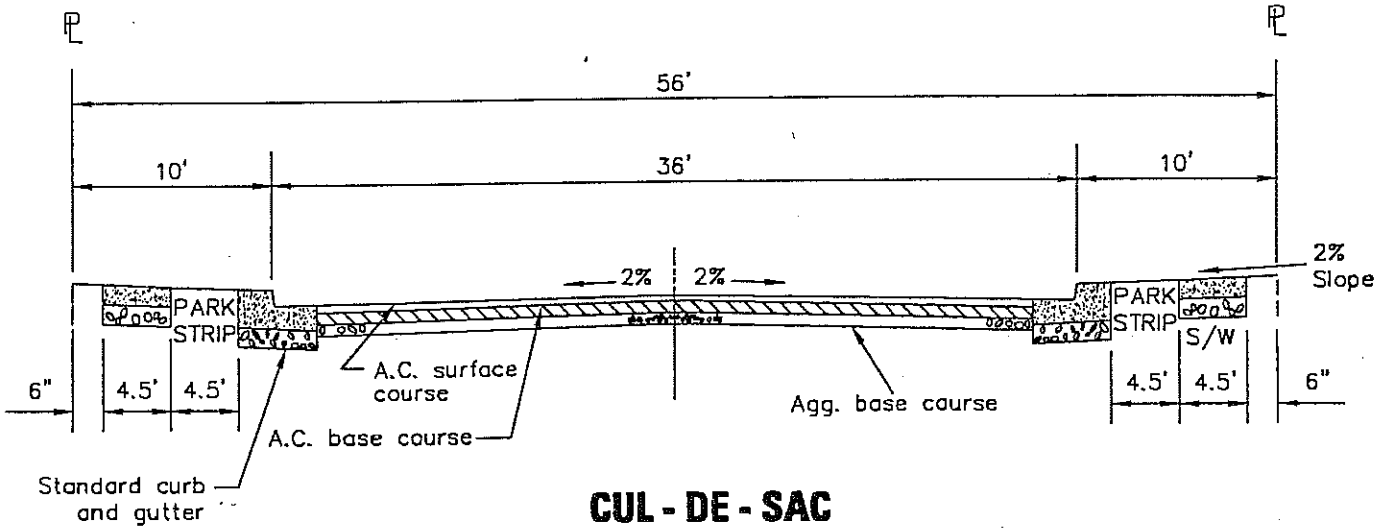
30. Grading of lots shall be completed as determined by the City Engineer, as shown on the plans, and shall follow requirements and standards as set forth in the City Standard Grading and Drainage notes.

31. Demolition of septic tanks shall conform to Santa Clara County Environmental Health Department regulations. Work shall be done prior to construction.



CUL - DE - SAC

(PARKING ON ONE SIDE)



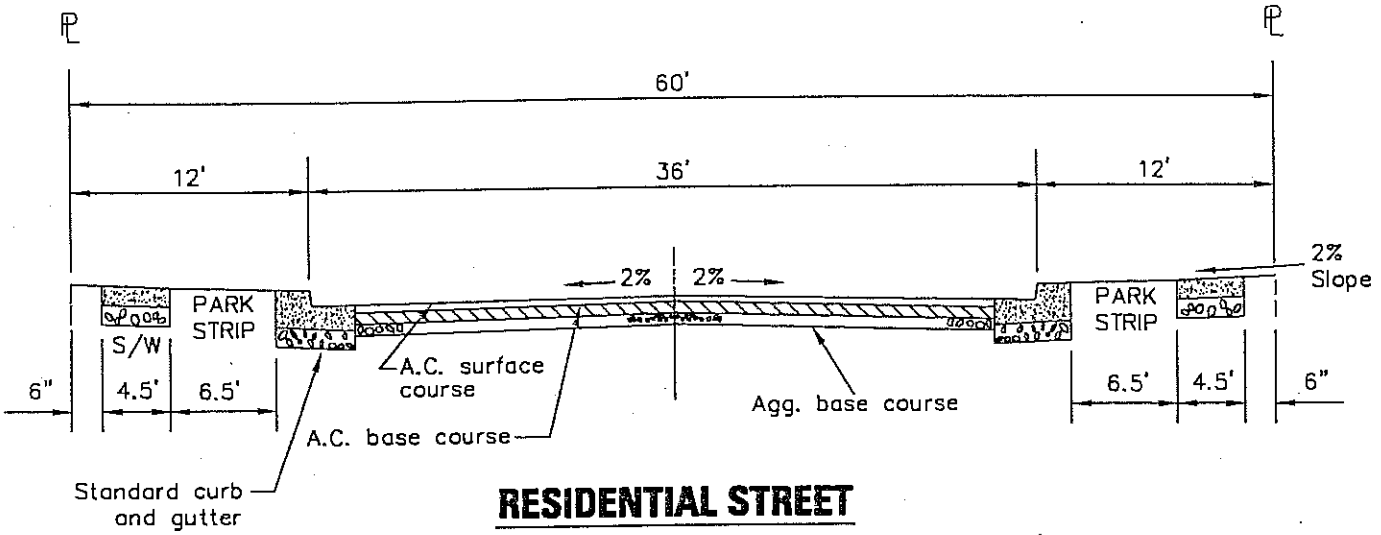
CUL - DE - SAC

(PARKING ON BOTH SIDES)

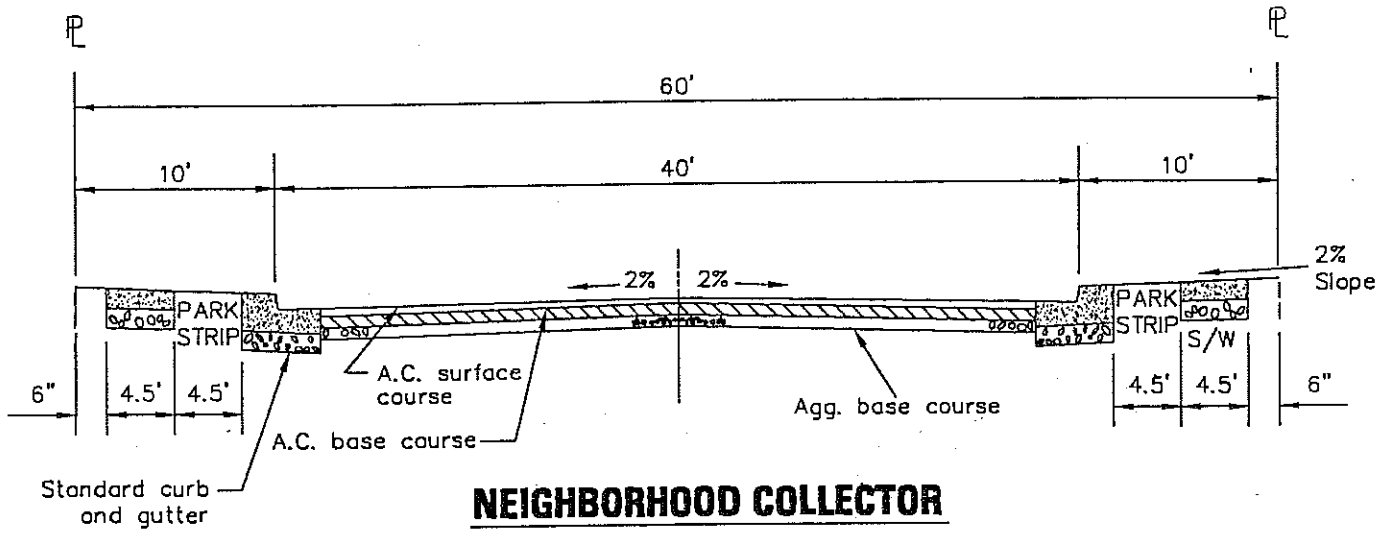
1. RESIDENTIAL – Sidewalk to be 4" P.C.C. over 4" Class II Aggregate Base @ 90% Relative Compaction
2. COMMERCIAL & INDUSTRIAL – Sidewalk to be 5" P.C.C. over 4" Class II Aggregate Base @ 90% Relative compaction.
3. Monolithic sidewalk shall be installed only when monolithic sidewalk exists.

RESIDENTIAL STREET SECTIONS

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ CITY ENGINEER DATE: 8/4/97	1-1



RESIDENTIAL STREET
OLD SAN JOSE AREA



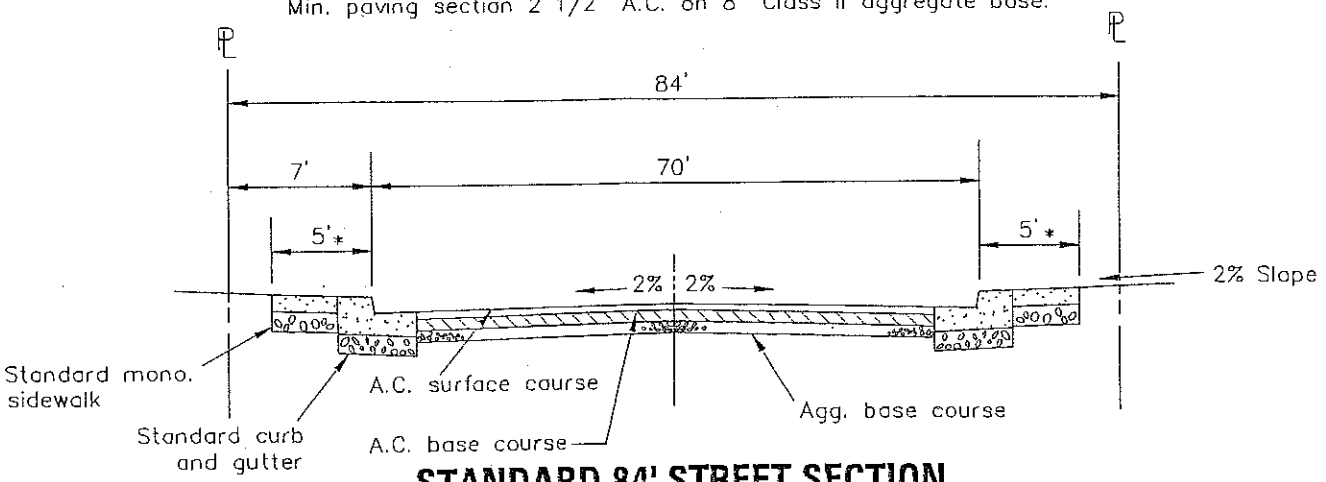
NEIGHBORHOOD COLLECTOR

1. RESIDENTIAL – Sidewalk to be 4" P.C.C. over 4" Class II Aggregate Base @ 90% Relative Compaction
2. COMMERCIAL & INDUSTRIAL – Sidewalk to be 5" P.C.C. over 4" Class II Aggregate Base @ 90% Relative compaction.
3. Manolithic sidewalk shall be installed only when manolithic sidewalk exists.

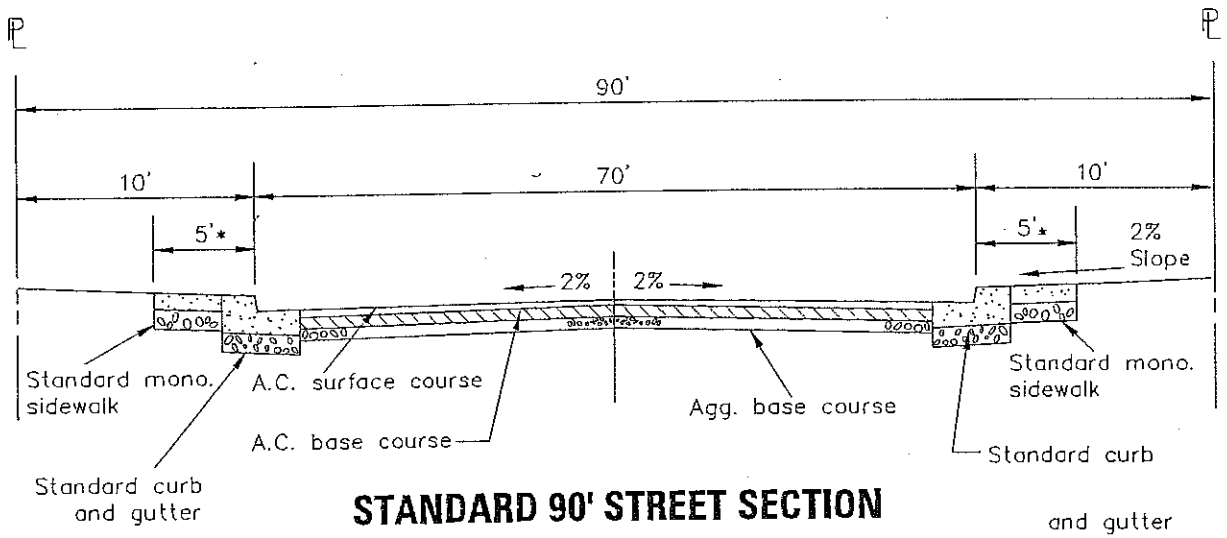
RESIDENTIAL STREET SECTIONS

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ CITY ENGINEER DATE: 8/4/97	1–2

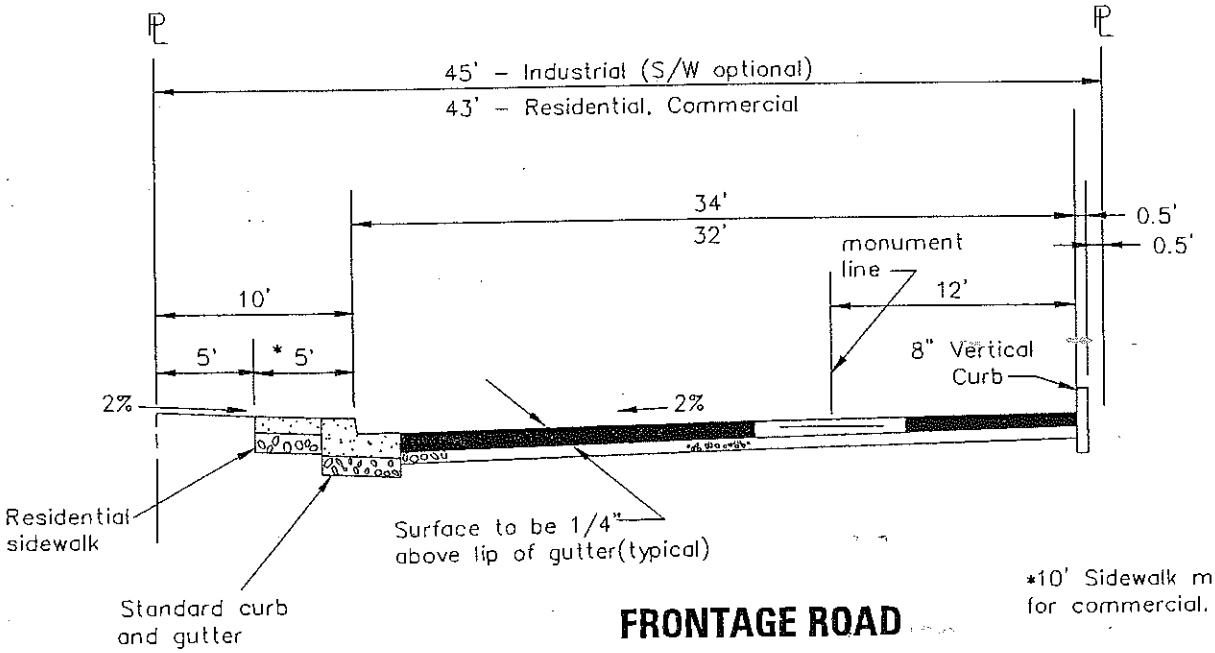
NOTE: Paved section to be designed based on R value and T.I. (Traffic Index)
Min. paving section 2 1/2" A.C. on 8" Class II aggregate base.



STANDARD 84' STREET SECTION



STANDARD 90' STREET SECTION



*10' Sidewalk maybe required for commercial.

FRONTAGE ROAD

STANDARD STREET SECTIONS

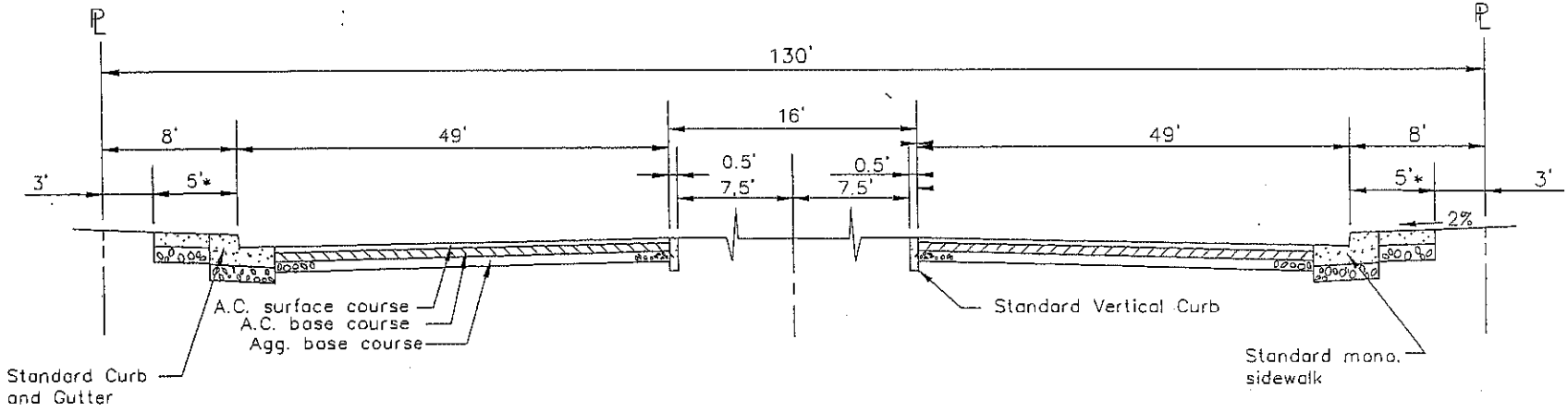
CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ CITY ENGINEER DATE: 8/4/97	1–4

CITY OF CUPERTINO
STANDARD DETAILS

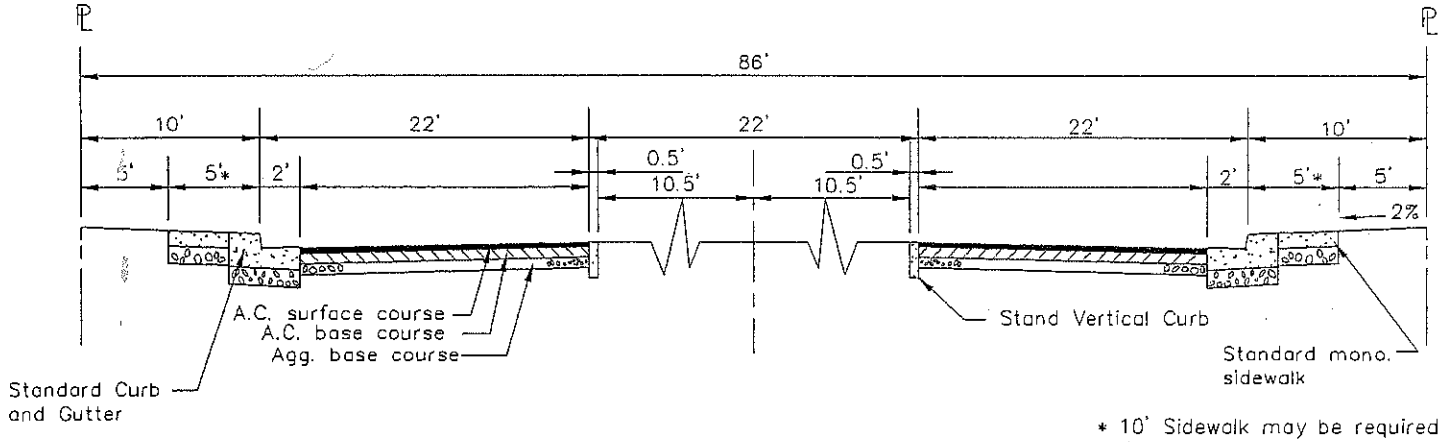
STANDARD STREET SECTIONS

APPROVED BY: _____ CITY ENGINEER DATE: 8/4/97

NOTE: Paved section to be designed based on R value and T.I. (Traffic Index) Min. paving section 2 1/2" A.C. on 8" Class II aggregate base. Traffic Index of greater than 7 shall require cement treated base or deep lift asphalt pavement.



STANDARD 130' STREET SECTION



* 10' Sidewalk may be required for commercial.

STANDARD 86' STREET SECTION

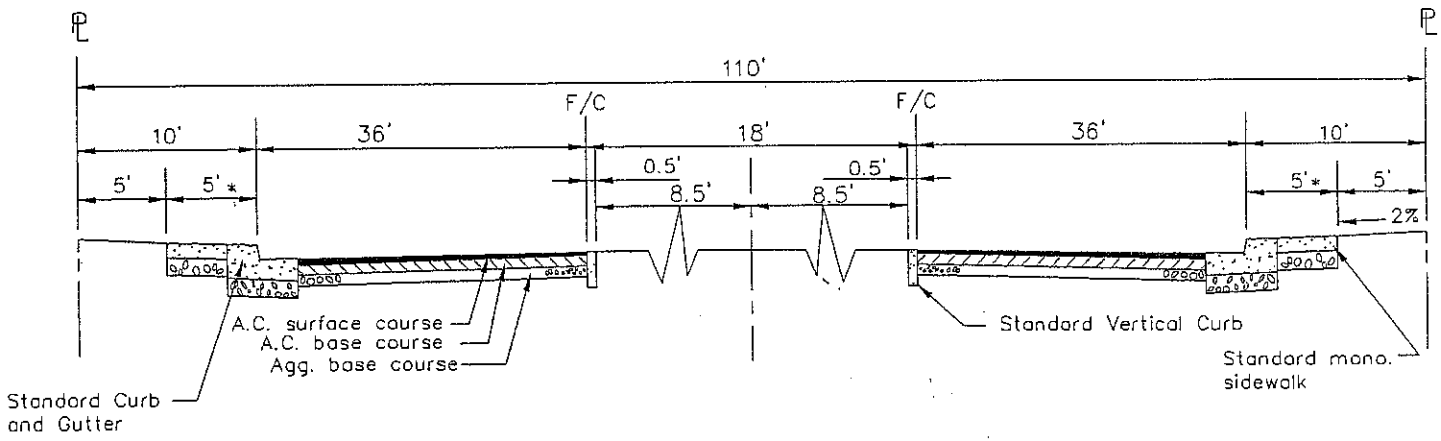
CITY OF CUPERTINO
STANDARD DETAILS

APPROVED BY: _____
CITY ENGINEER

DATE: 8/4/97

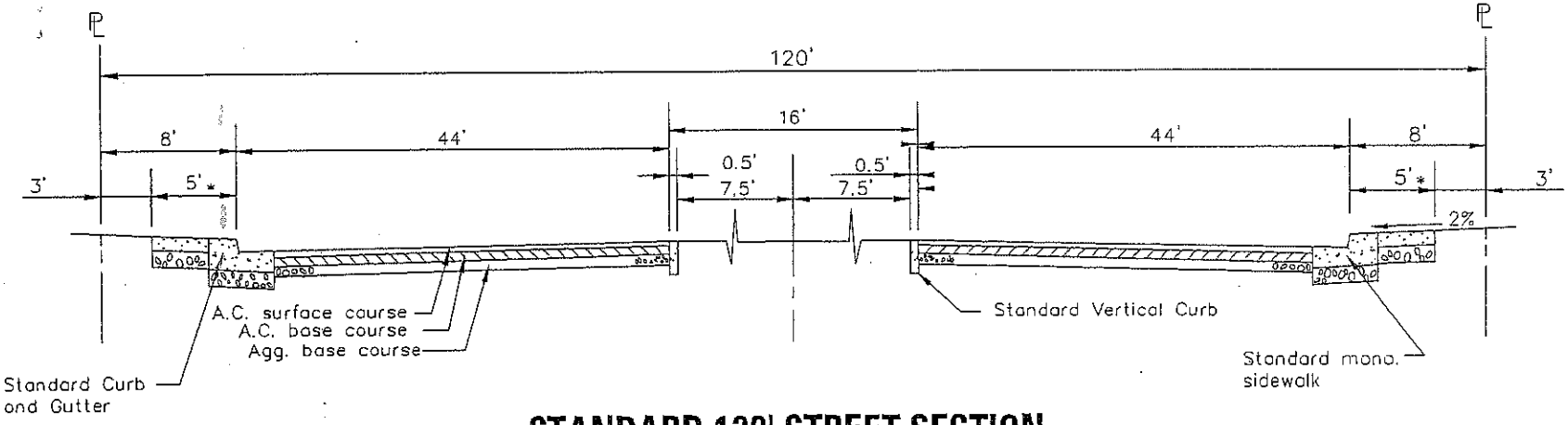
1-8

STANDARD STREET SECTIONS



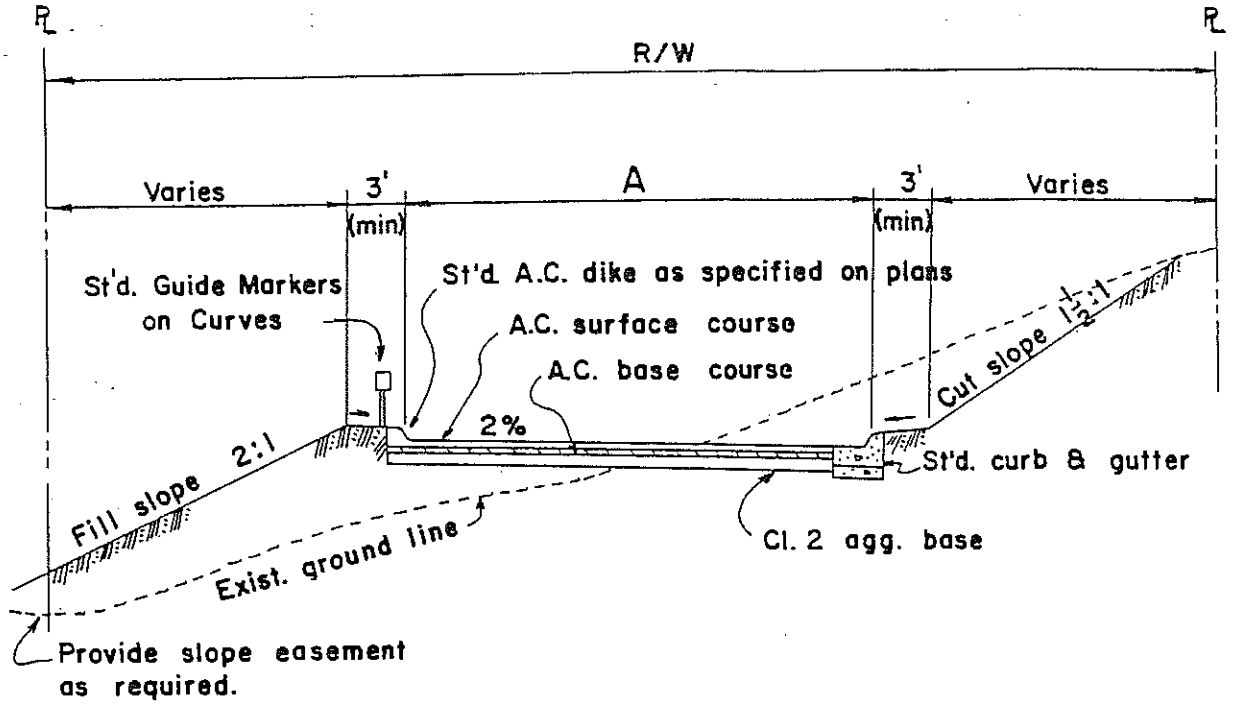
STANDARD 110' STREET SECTION

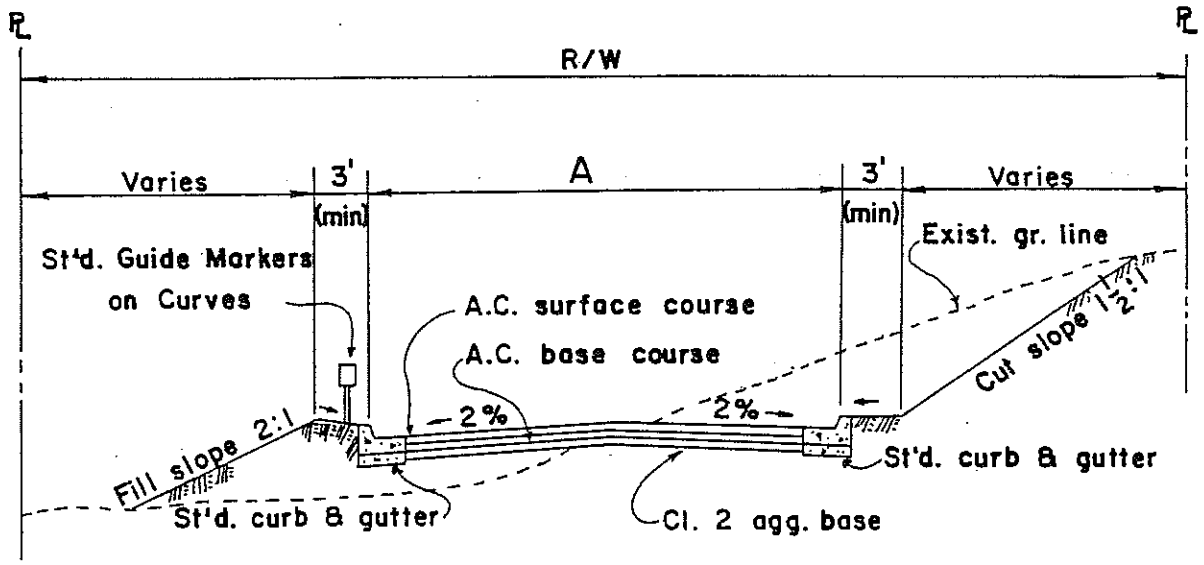
NOTE: Paved section to be designed based on R value and Traffic Index. Min. paving section 2 1/2" A.C. on 8" Class II aggregate base. Traffic Index of greater than 7 shall require cement treated base or deep lift asphalt pavement.



STANDARD 120' STREET SECTION

* 10' Sidewalk may be required for commercial.



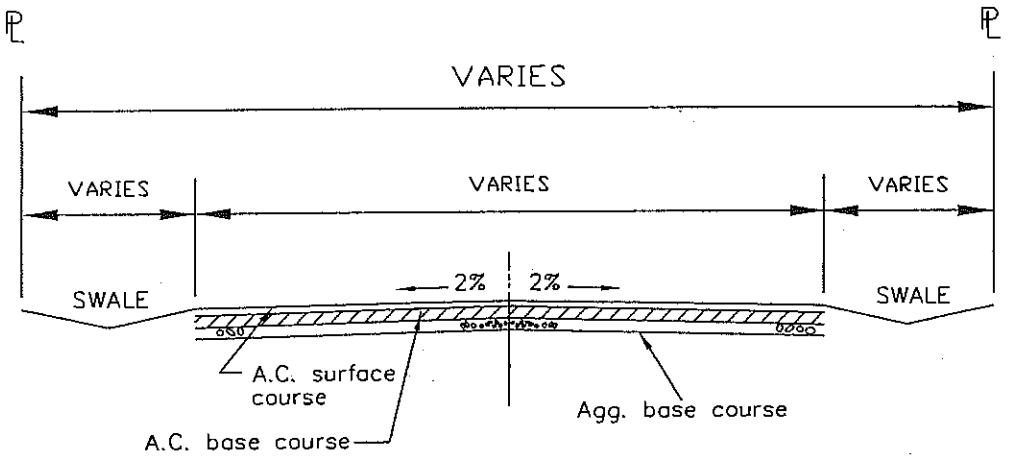


NOTE: Paved section to be designed based on R value and Traffic Index. Min. paving section 2 1/2" A.C. on 8" class 2 agg. base. Traffic Index of greater than 7 shall require cement treated base or deep lift asphalt pavement.

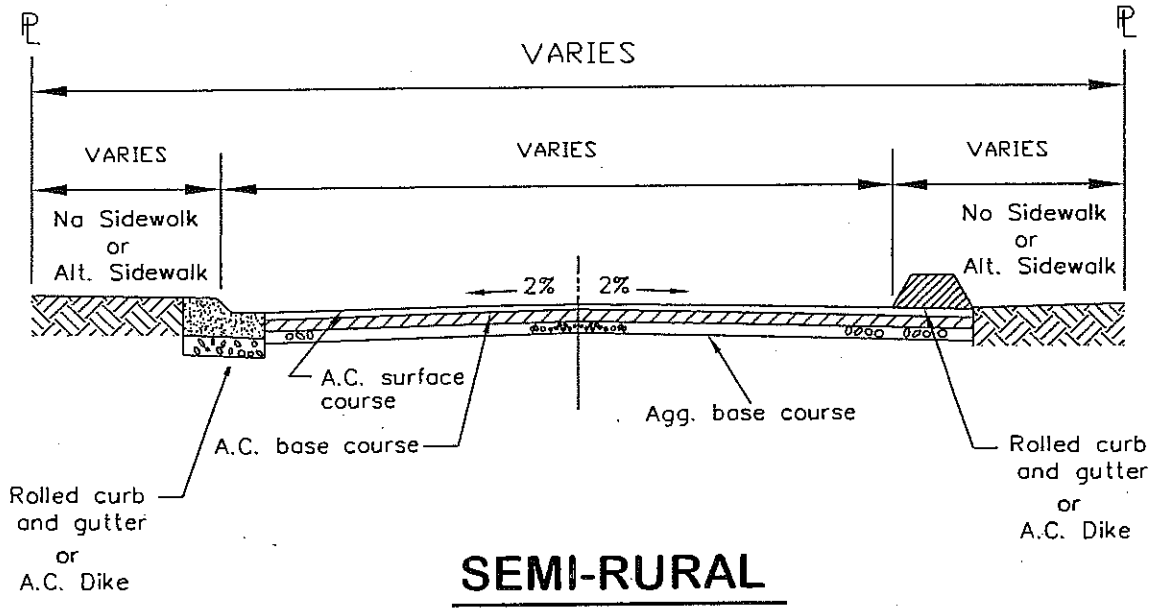
TYPE	A	R/W
One-way streets	14'	40'
Cul-de-sac 6 Lots or less max. potential	20'	40'
Cul-de-sac & local streets serving more than 6-Lots	24'	50'
Collector Streets	30'	60'
Major Streets	40'	60'

SPECIAL ROADWAY SECTIONS FOR HILLSIDE SUBDIVISIONS

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: CITY ENGINEER	DATE: 2/10/89	1-10



RURAL

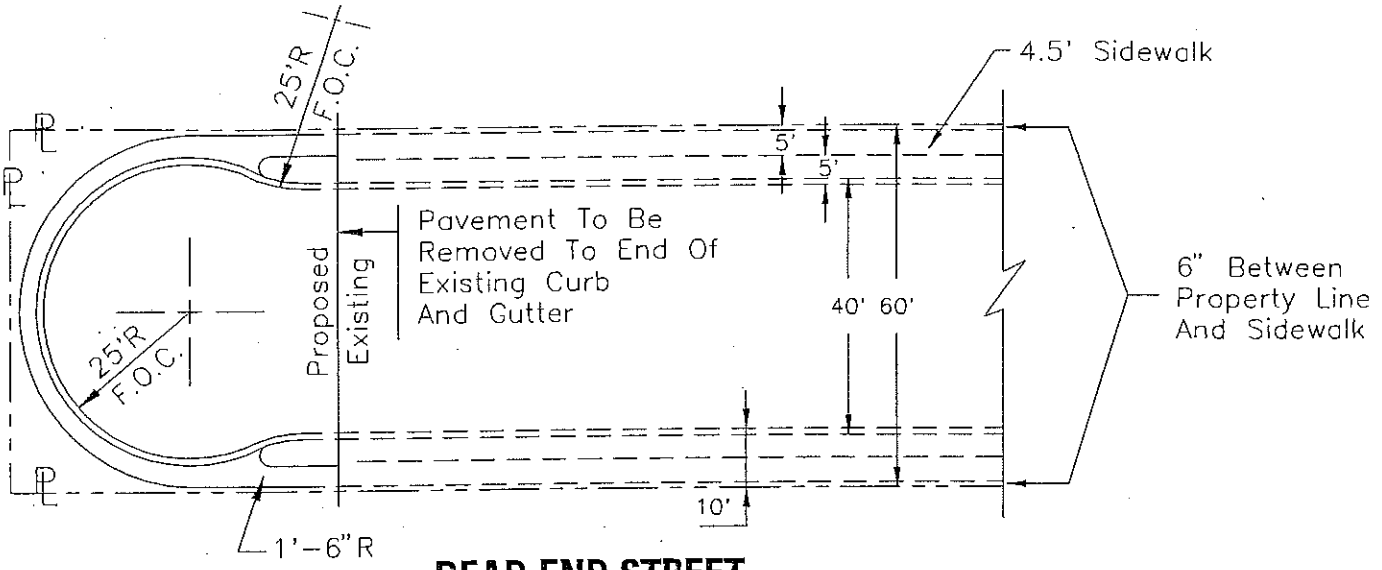


SEMI-RURAL

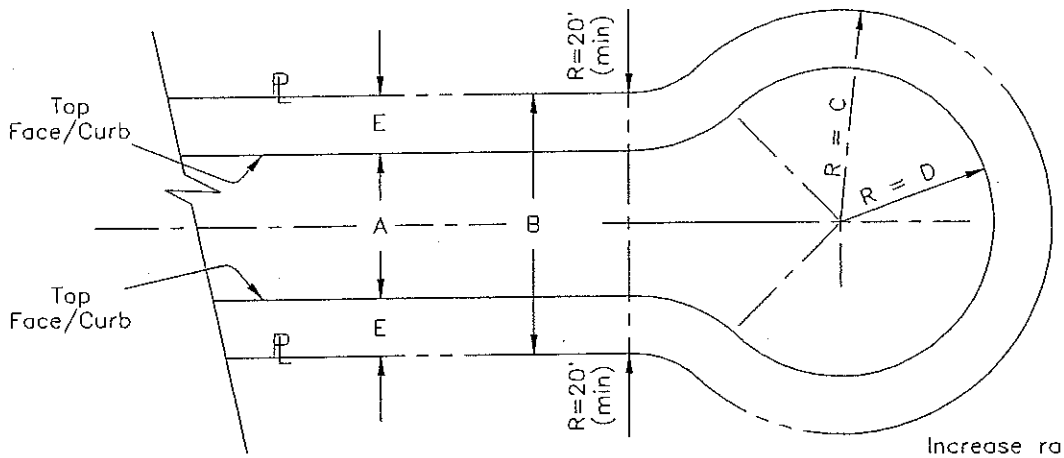
RURAL & SEMI-RURAL STREET SECTIONS

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: R. Schwarz CITY ENGINEER DATE: 11.20.03	1-11

NOTE: Cul-De-Sac for existing dead-end street by approval of City Engineer and City Council.



DEAD-END STREET



Increase radius as required for lot frontage

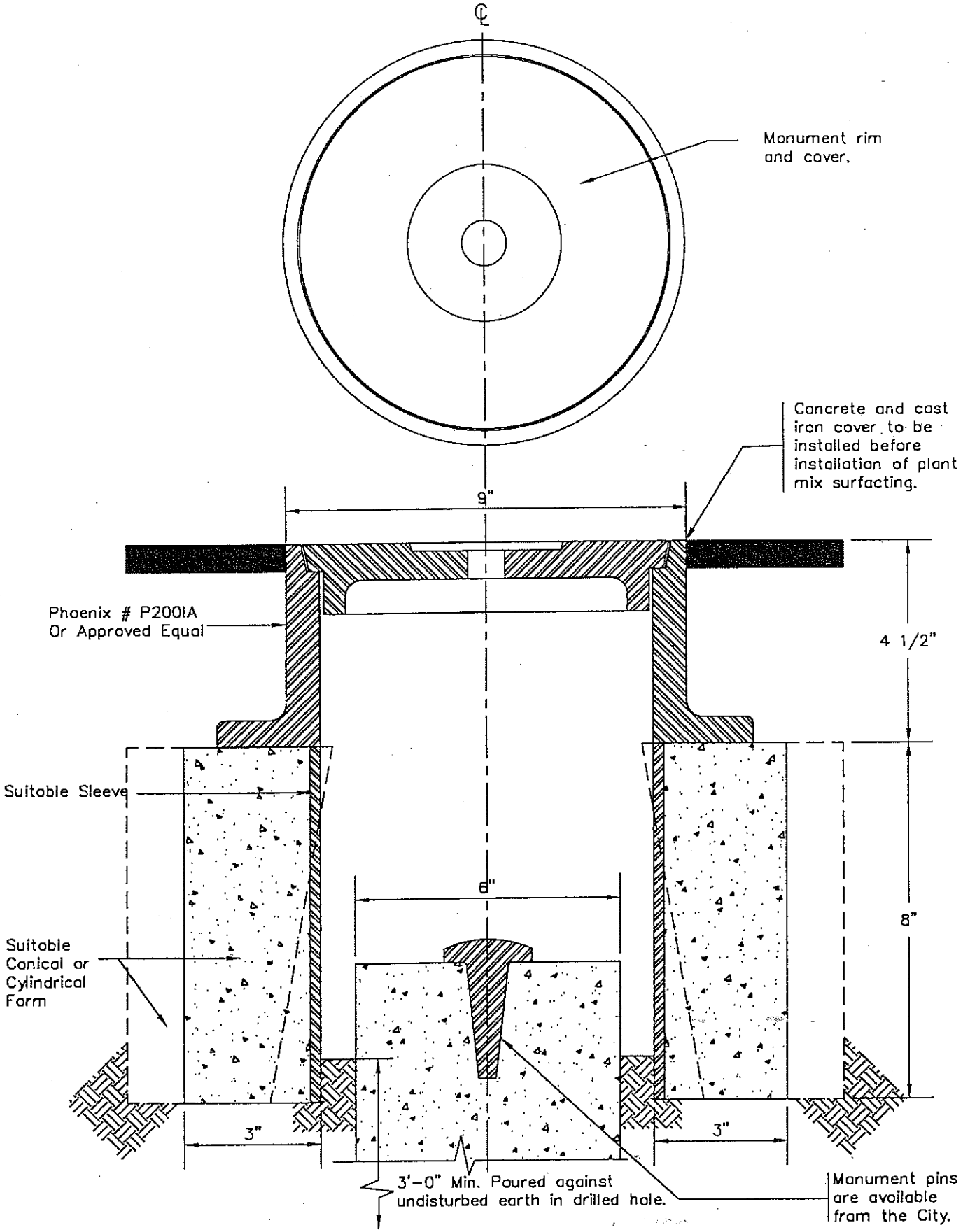
	A	B	C	D	E
INDUSTRIAL	40'	60'	60'	50'	5'
COMMERCIAL	40'	60'	55'	45'	10'
RESIDENTIAL (PARKING ON ONE SIDE)	28'	48'	46'	36'	10'
RESIDENTIAL (PARKING ON BOTH SIDES)	36'	56'	46'	36'	10'

Min. street section on cul-de-sac may be 2 1/2" A.C. on 8" Class II A.B. on approval of City Engineer.

CUL - DE - SACS

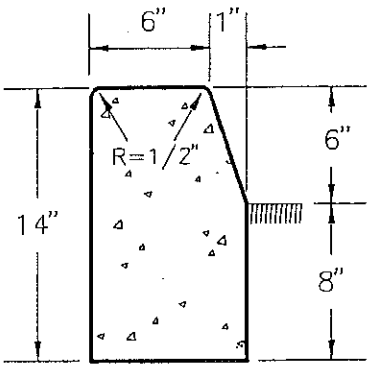
REVISED 6/9/97

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: CITY ENGINEER DATE: 7-9-97	1-12

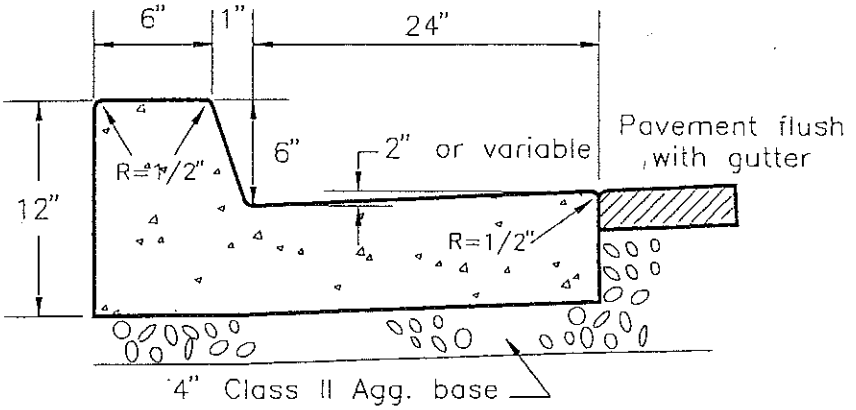


STREET MONUMENT

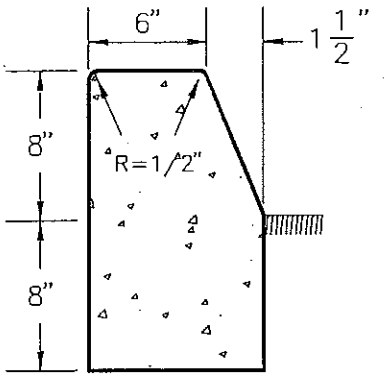
CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: CITY ENGINEER DATE: 6/27/97	1-14



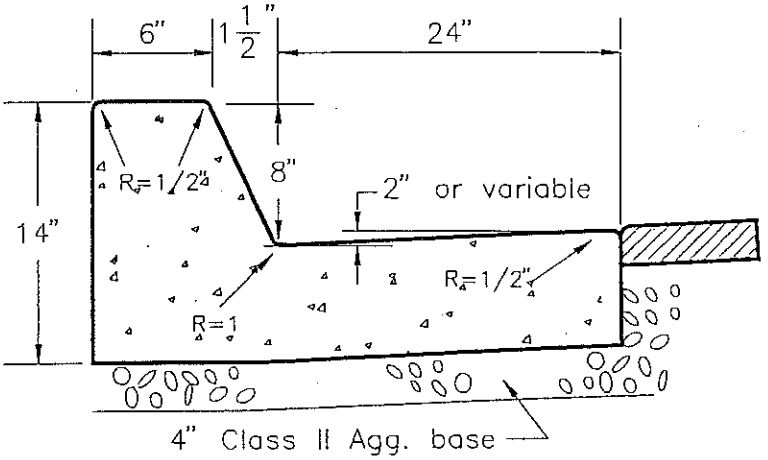
A1-6



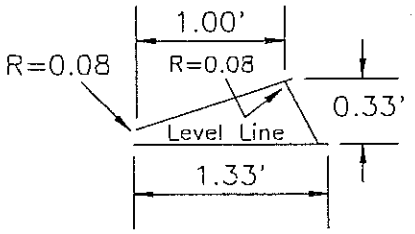
A2-6



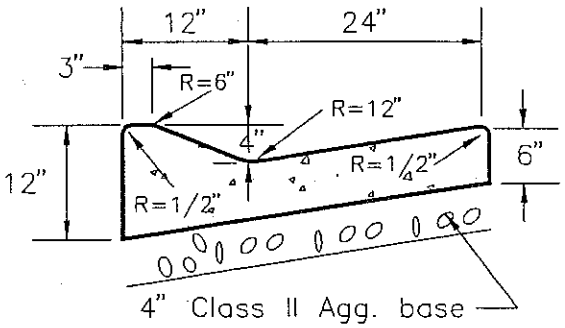
A1-8



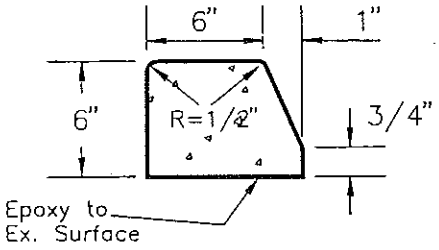
A2-8



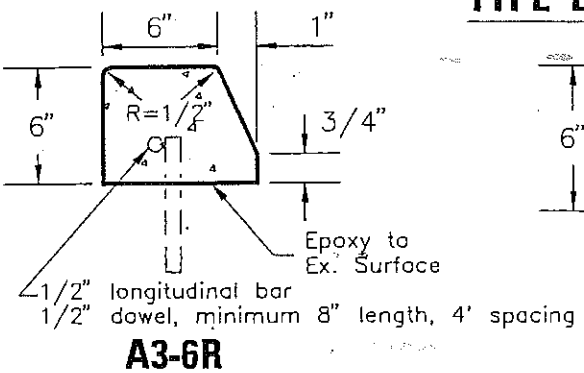
TYPE E (MOUNTABLE DIKE)



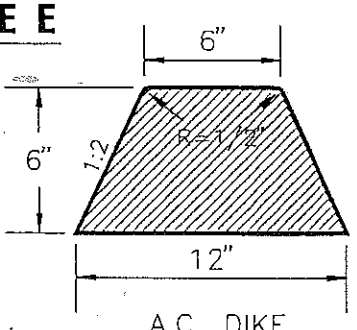
TYPE E



EXTRUDED CURB
A3-6



A3-6R

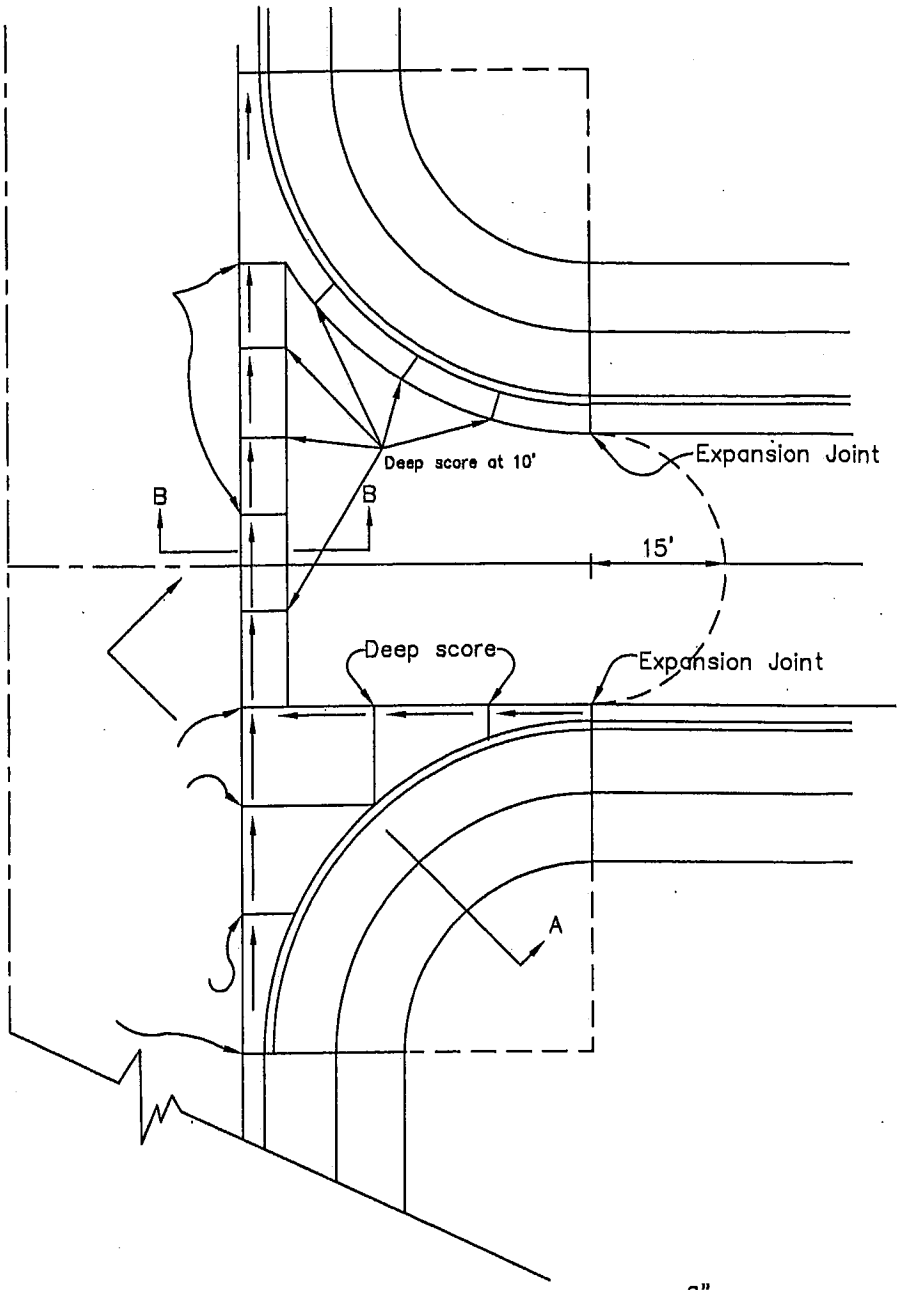


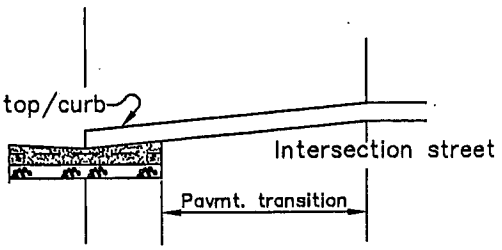
A3-6D

STANDARD CURB SECTIONS

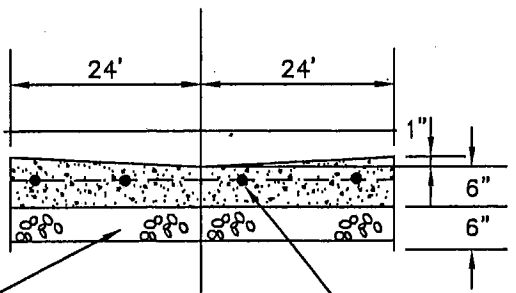
REVISED 3/97

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: CITY ENGINEER DATE: 5/1/97	1-16





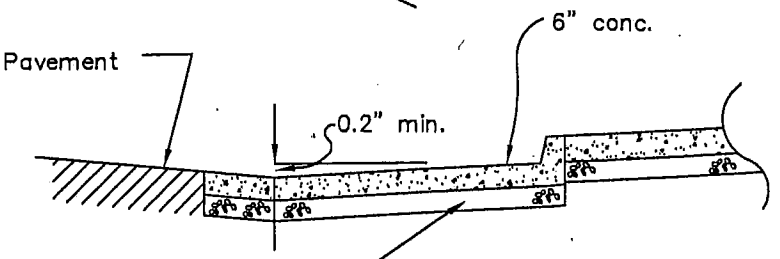
SECTION B–B



6" Class II Agg. base material with a 95% relative compaction

#4 Rebar, continuous longitudinal, 18" O.C. Perpendicular

TYPICAL SECTION



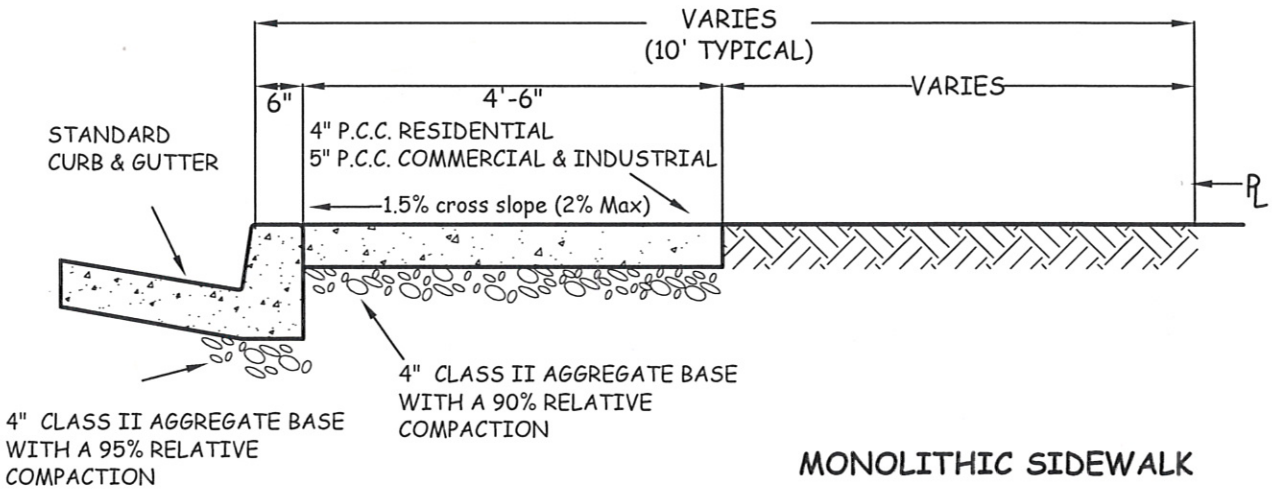
6" Class II Agg. base material with a 95% relative compaction

SECTION A–A

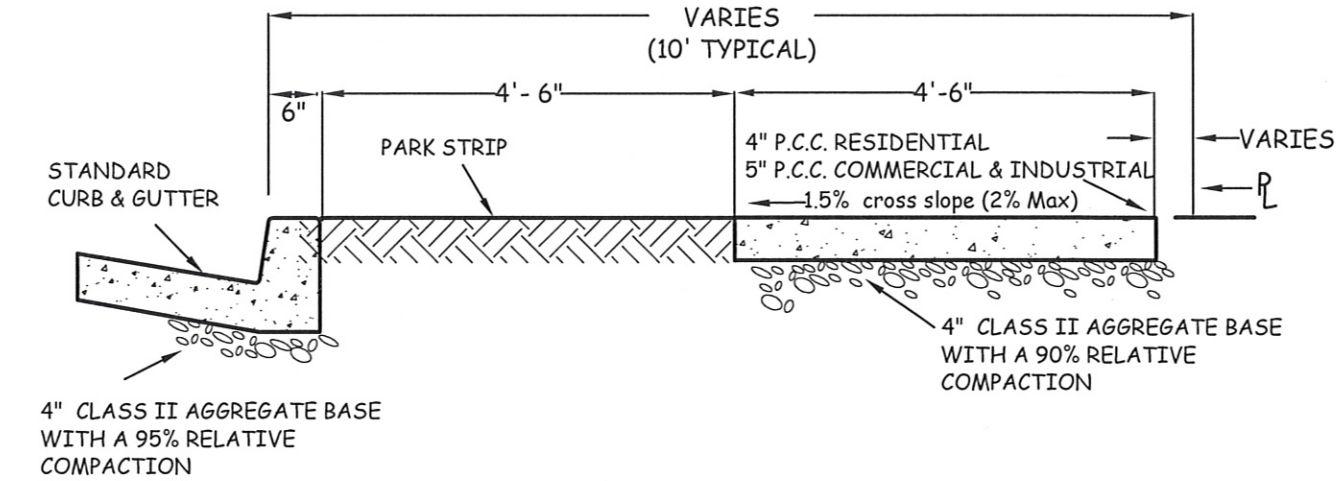
STANDARD VALLEY GUTTER

Revised 6/09

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: CITY ENGINEER	DATE: 6.10.09	1–18



MONOLITHIC SIDEWALK



DETACHED SIDEWALK

NOTES:

1. Cross slope shall be 1.5% (in no case shall cross slope exceed 2%)
2. Driveway concrete thickness: Residential - 5". Commercial and Industrial - 6" w/ #4 rebar 18" O.C. both ways.
3. One pound of dispersing black shall be mixed with each cubic yard of concrete at the batch plant.
4. Sidewalks, curbs and gutters shall be Class "A" (6 sacks per cubic yard) as per Standard Specification and shall attain a strength 3,000 p.s.i. in 28 days.
5. Sidewalk finish shall be light broom.

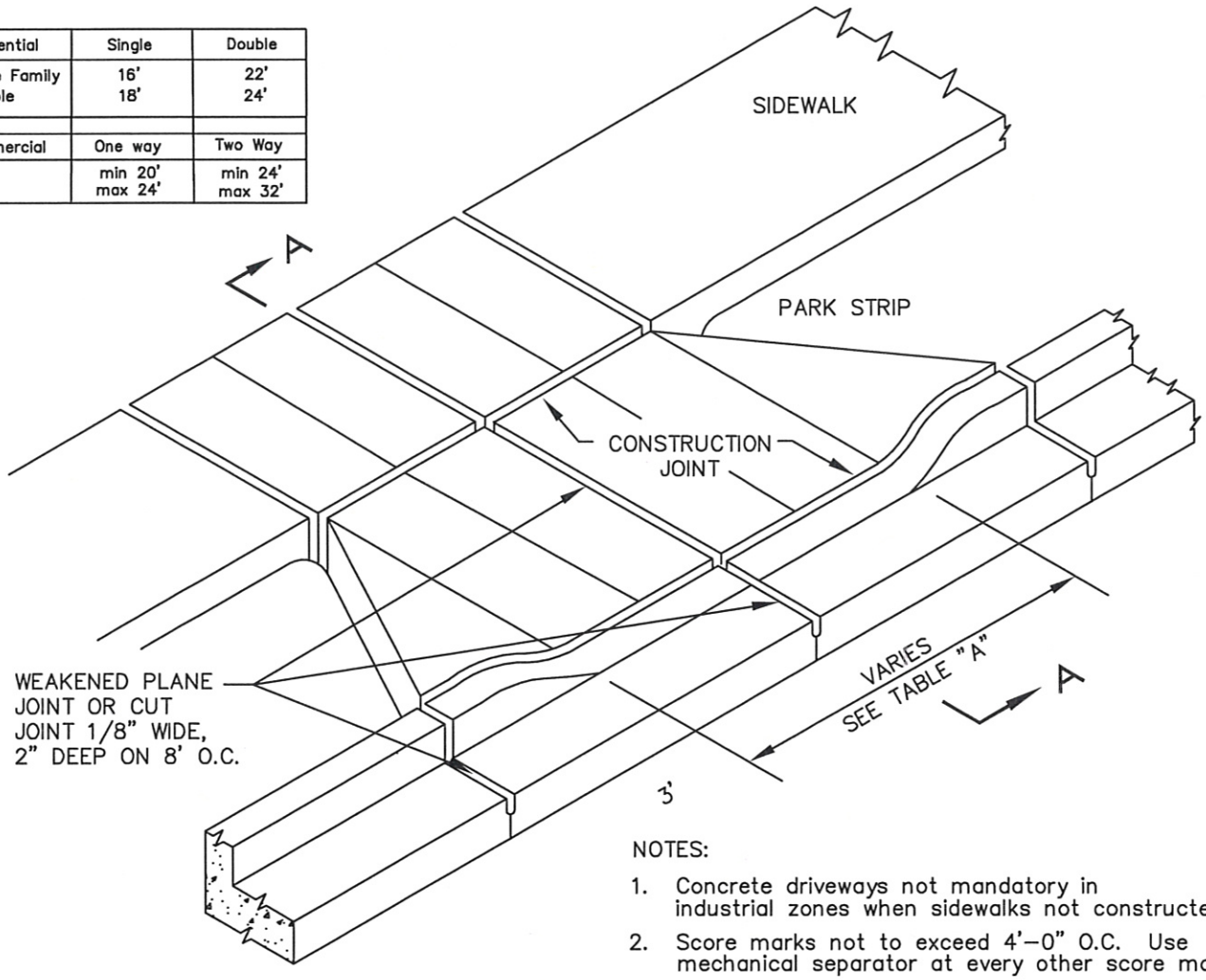
SIDEWALK DETAILS

REVISED 6/2016

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ DATE: 6/29/16 City Engineer	1-19

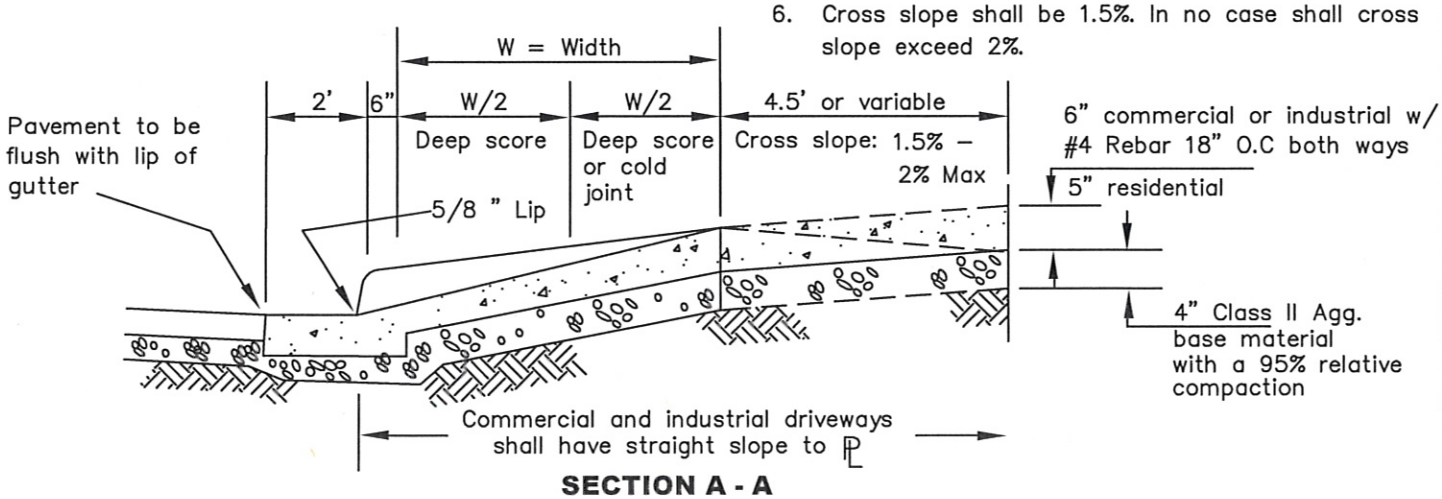
TABLE "A"

Residential	Single	Double
Single Family Multiple	16' 18'	22' 24'
Commercial	One way	Two Way
	min 20' max 24'	min 24' max 32'



NOTES:

1. Concrete driveways not mandatory in industrial zones when sidewalks not constructed.
2. Score marks not to exceed 4'–0" O.C. Use mechanical separator at every other score mark.
3. Finish to be light broom.
4. Sidewalk to be replaced when new driveway is placed.
5. Edge of driveway shall be a minimum of 4' from property line.
6. Cross slope shall be 1.5%. In no case shall cross slope exceed 2%.



SECTION A - A

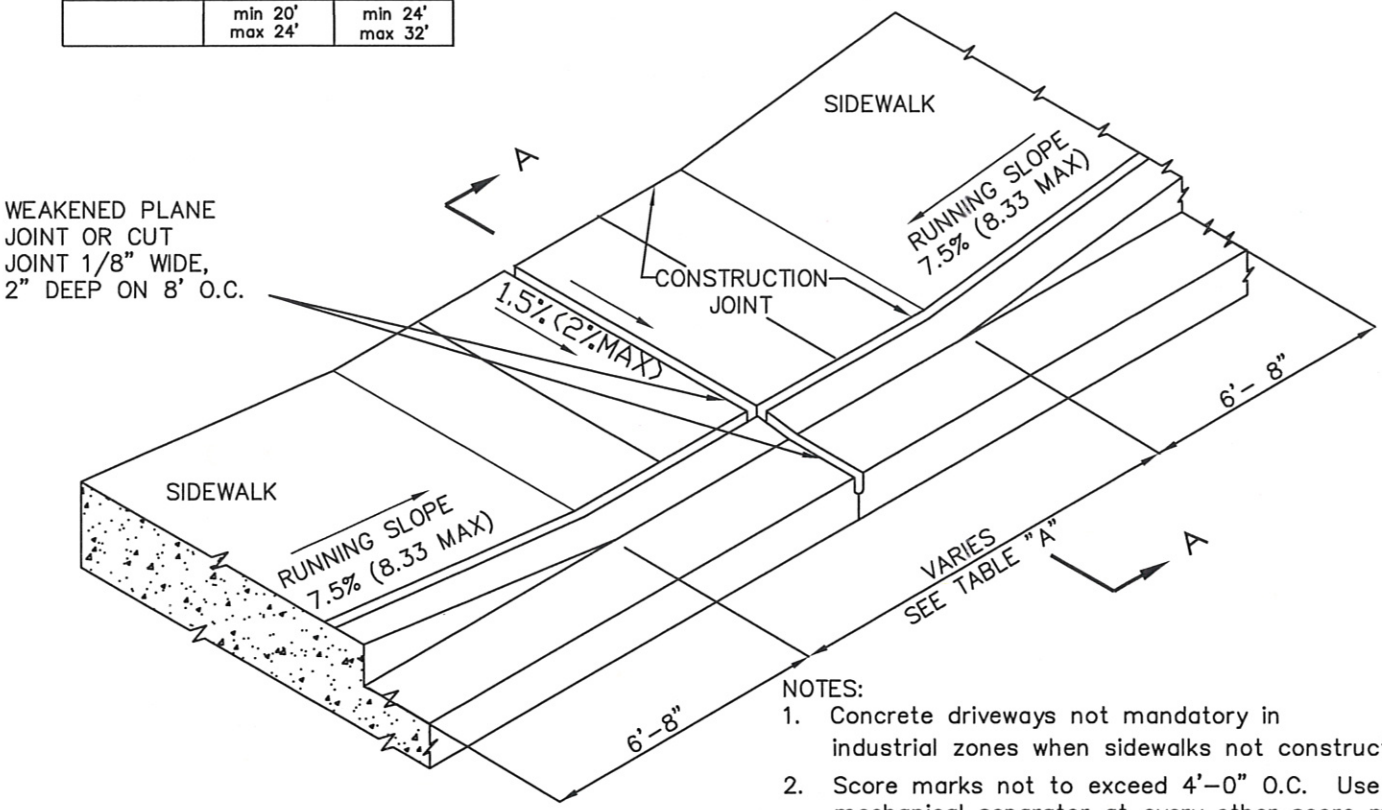
DRIVEWAY DETAIL - DETACHED SIDEWALK

REVISED 6/2016

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ CITY ENGINEER	DATE: 6/29/16	1–20

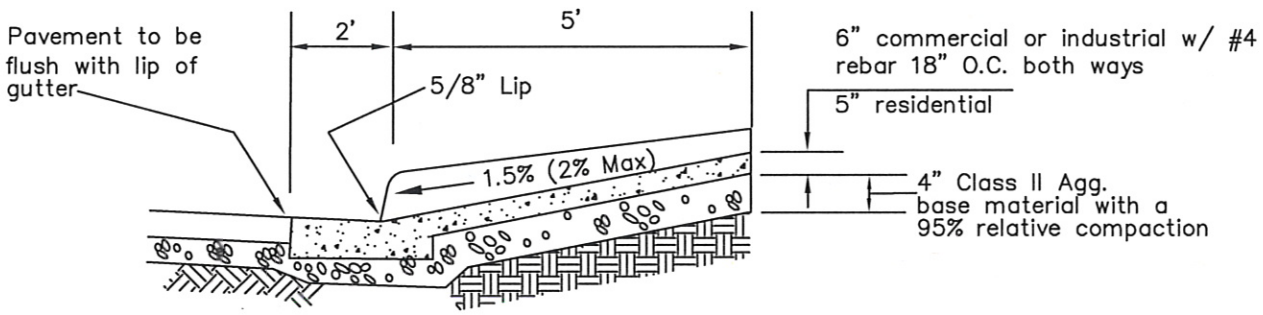
TABLE "A"

Residential	Single	Double
Single Family Multiple	16' 18'	22' 24'
Commercial	One way	Two Way
	min 20' max 24'	min 24' max 32'



NOTES:

1. Concrete driveways not mandatory in industrial zones when sidewalks not constructed.
2. Score marks not to exceed 4'–0" O.C. Use mechanical separator at every other score mark.
3. Finish to be light broom
4. Sidewalk to be replaced when new drive–way is placed.
5. Edge of driveway shall be a minimum of 4' from property line.
6. If on–street parking is permitted, driveway shall be flush with gutter.
7. Running slope shall be 7.5%. In no case shalll running slope exceed 8.33%.



SECTION A - A

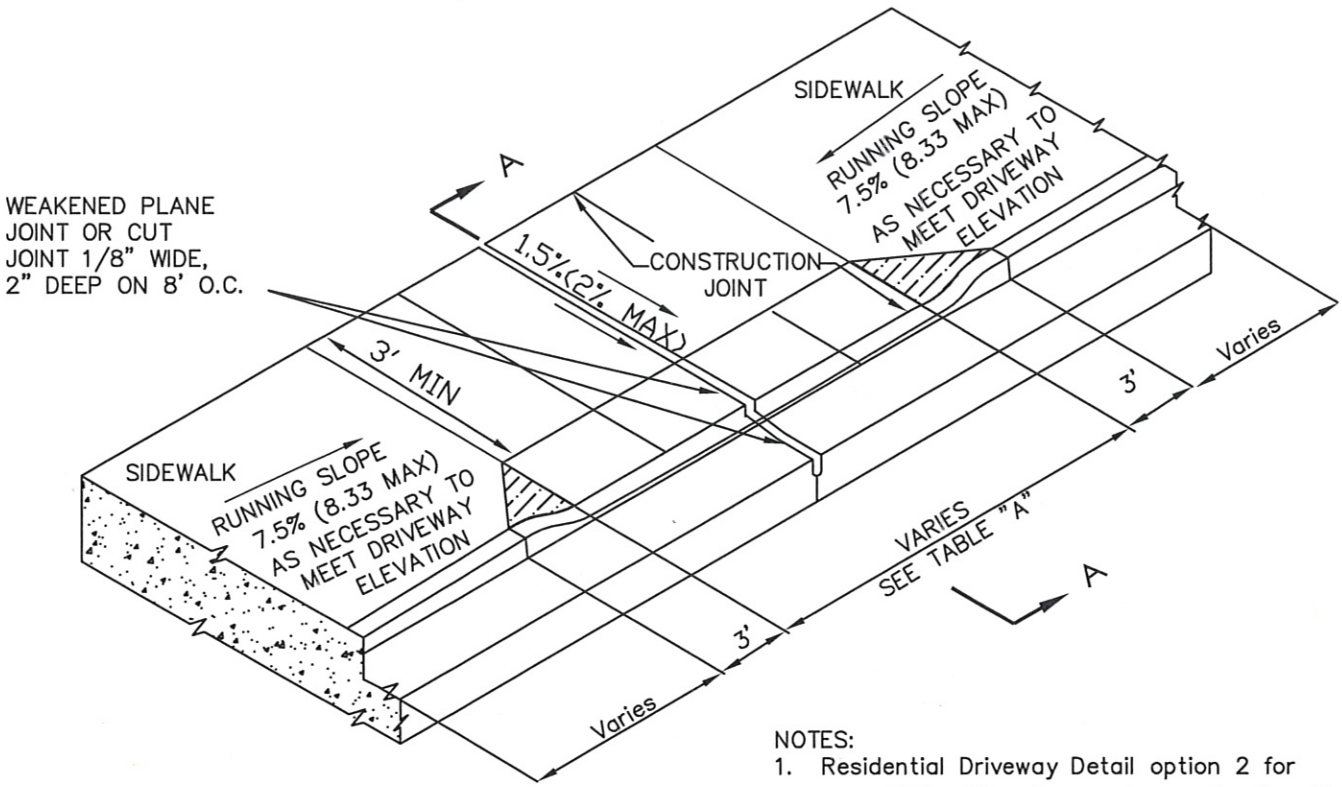
DRIVEWAY DETAIL - MONOLITHIC SIDEWALK

REVISED 6/2016

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ CITY ENGINEER	DATE: 6/29/16	1–21

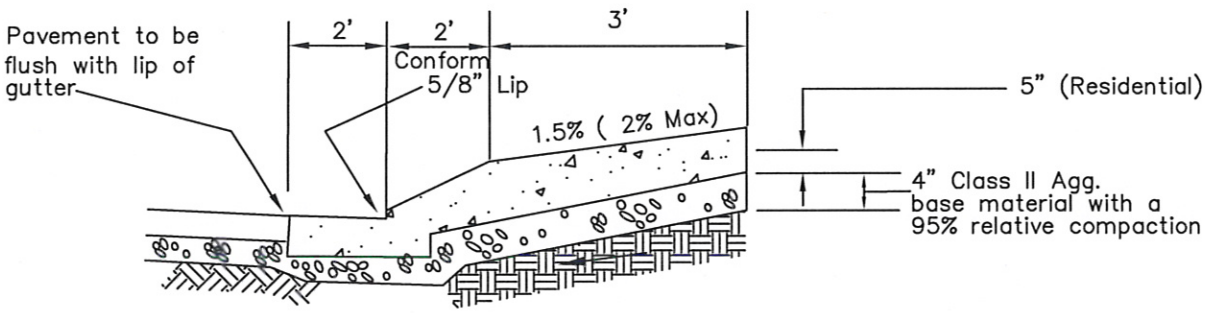
TABLE "A"

Residential	Single	Double
Single Family	16'	22'
Multiple	18'	24'



NOTES:

1. Residential Driveway Detail option 2 for monolithic sidewalk may be used only with written approval from the City Engineer.
2. Score marks not to exceed 4'–0" O.C. Use mechanical separator at every other score mark.
3. Finish to be light broom
4. Sidewalk to be replaced when new drive–way is placed.
5. Edge of driveway shall be a minimum of 4' from property line.
6. Running slope shall be 7.5%. In no case shalll running slope exceed 8.33%.

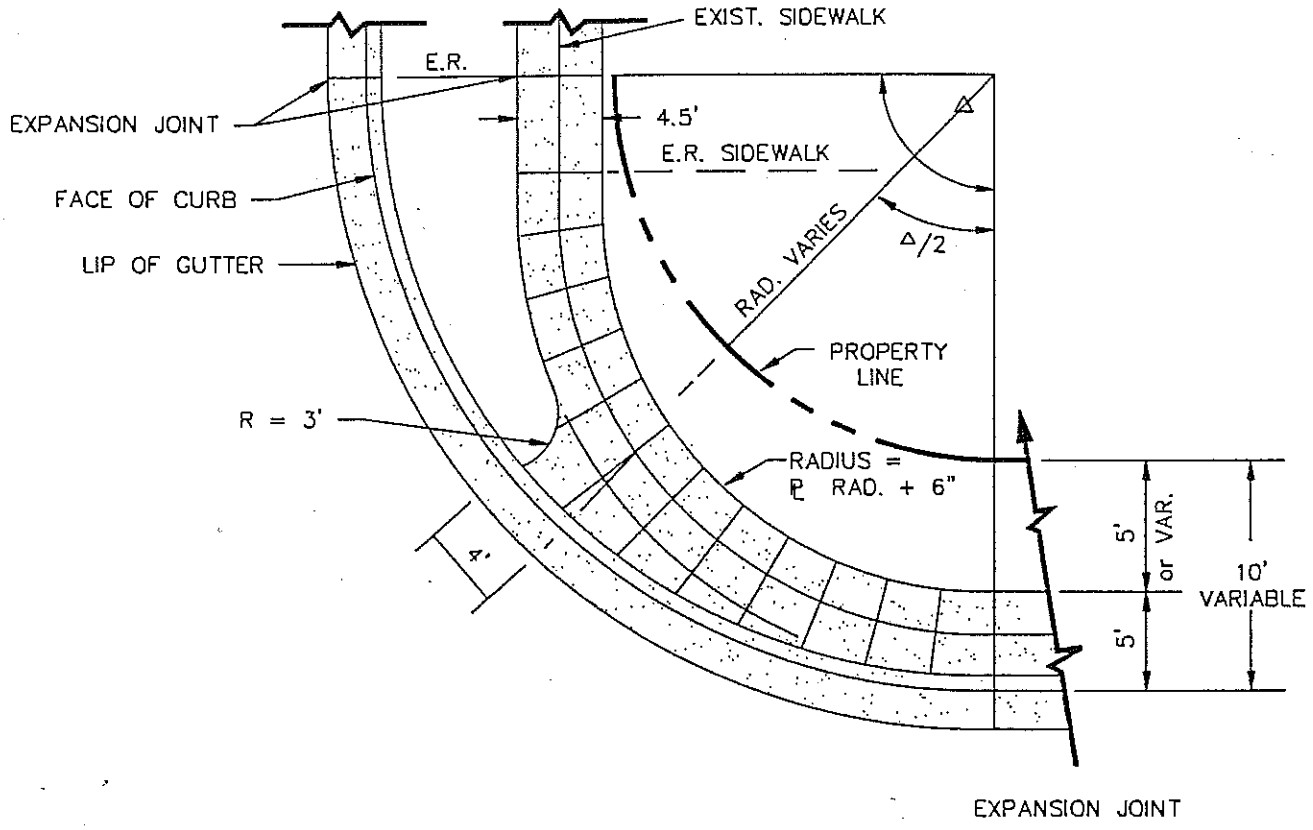


SECTION A - A

DRIVEWAY DETAIL - MONOLITHIC SIDEWALK OPTION 2

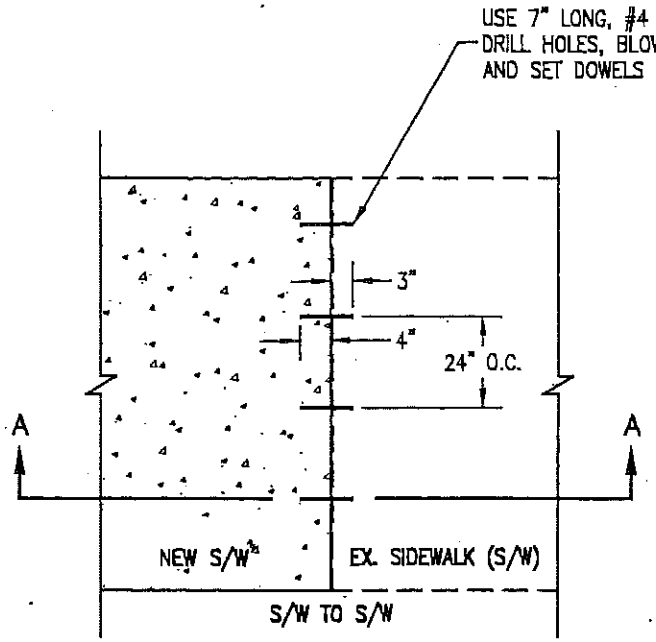
REVISED 6/2016

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ CITY ENGINEER	DATE: 6/29/16	1–21B

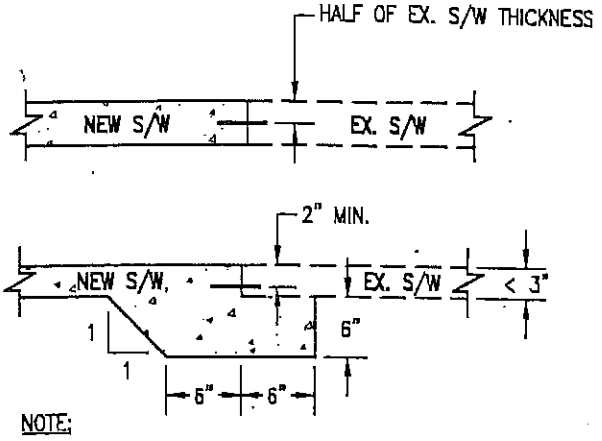


SIDEWALK CORNER TRANSITION FROM EXISTING SIDEWALK W/PLANTER STRIP TO NEW MONOLITHIC SIDEWALK

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ CITY ENGINEER	DATE: 5/30/95	1-22



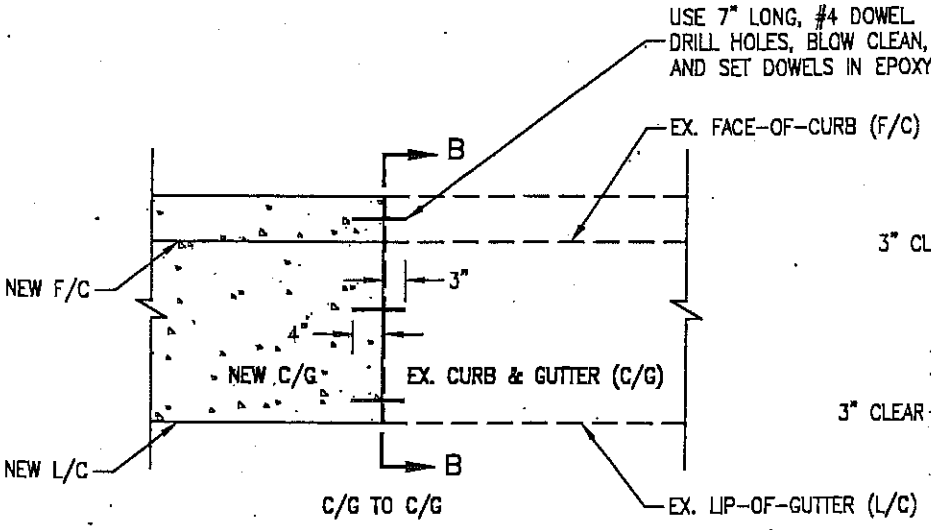
PLAN VIEW
NO SCALE



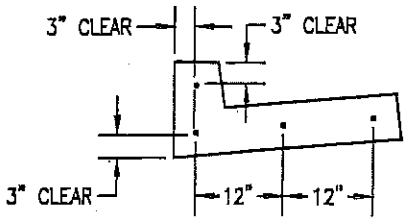
NOTE:

IF EXISTING SIDEWALK IS LESS THAN 3" THICK, USE 6" DEEP X 12" WIDE P.C.C. KEY WITH DOWEL CONNECTION.

SECTION A–A
NO SCALE



PLAN VIEW
NO SCALE

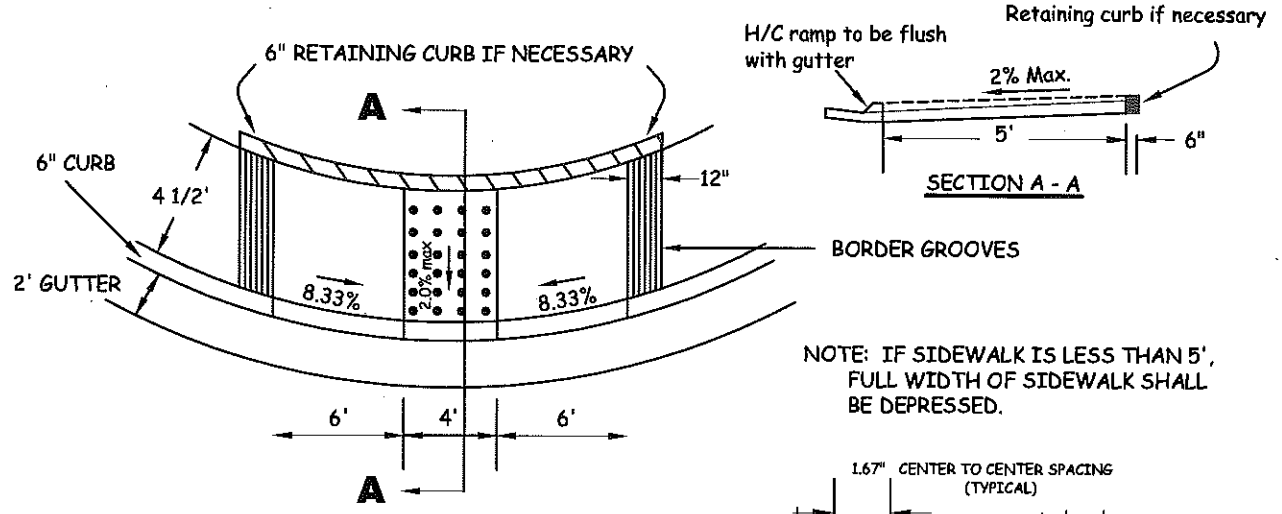


SECTION B–B
NO SCALE

DOWEL CONNECTIONS

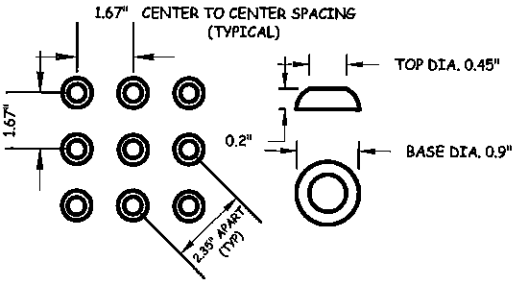
June 2009

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ CITY ENGINEER DATE: 6-10-09	1–23

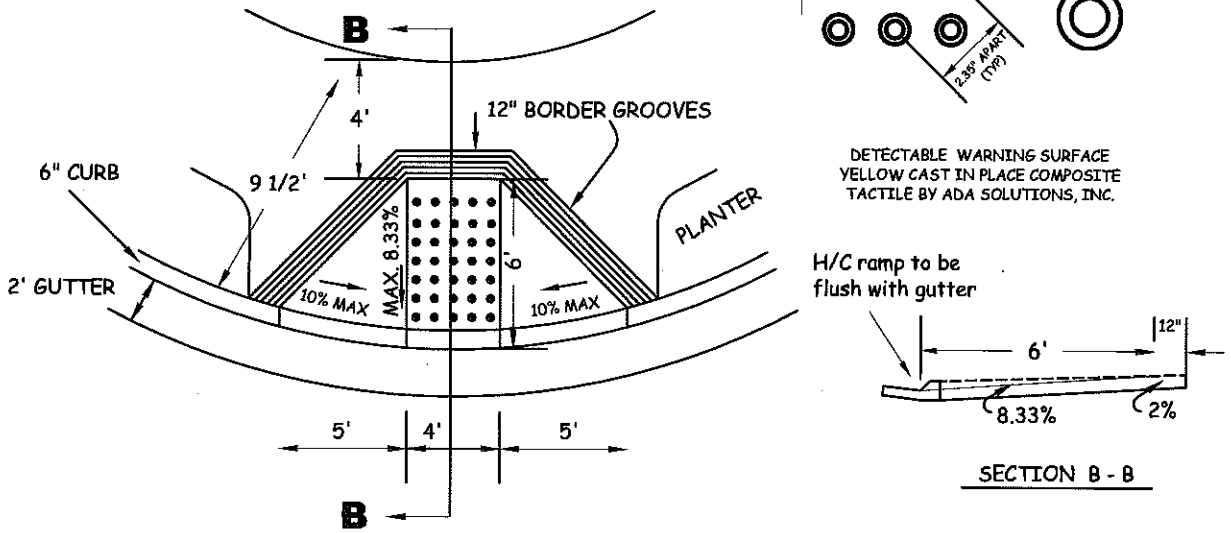


NOTE: IF SIDEWALK IS LESS THAN 5', FULL WIDTH OF SIDEWALK SHALL BE DEPRESSED.

CASE A - 5' MONOLITHIC SIDEWALK



DETECTABLE WARNING SURFACE YELLOW CAST IN PLACE COMPOSITE TACTILE BY ADA SOLUTIONS, INC.



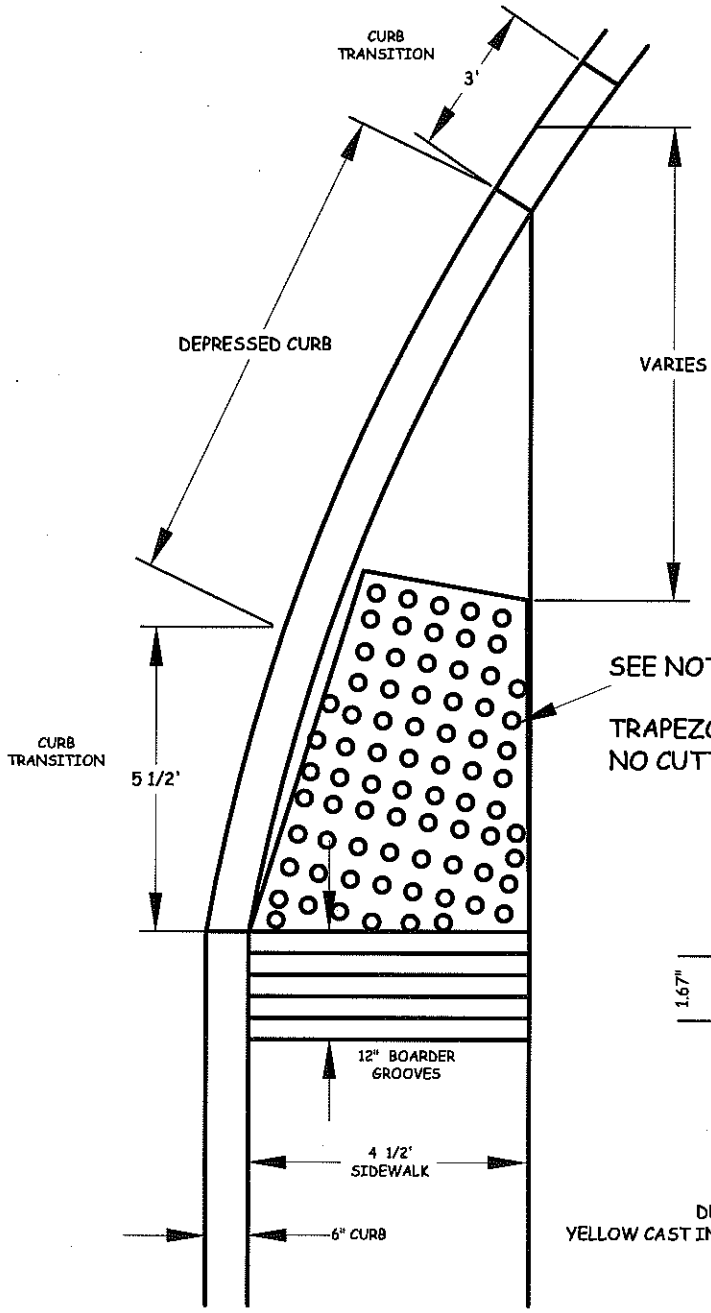
CASE B - DETACHED SIDEWALK OR 10' MONOLITHIC SIDEWALK

NOTES

1. RAMP TO BE MINIMUM 4" P.C.C. ON 3" CLASS 2 AGGREGATE BASE WITH HEAVY BROOM FINISH TRANSVERSE TO AXIS OF RAMP.
2. CURB RAMPS TO BE PLACED MONOLITHICALLY WITH CURB, GUTTER & SIDEWALK
3. CURB RAMPS SHALL HAVE DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH AND DEPTH OF THE CURB RAMP. DETECTABLE WARNING SURFACE SHALL CONFORM TO THE DETAILS ON THIS PLAN. USE YELLOW CAST IN PLACE COMPOSITE TACTILE BY ADA SOLUTIONS, INC. OR CITY APPROVED EQUAL. INSTALL PER MANUFACTURERS SPECIFICATION.
4. THE EDGE OF THE DETECTABLE WARNING SURFACE NEAREST THE STREET SHALL BE BETWEEN 6" AND 8" FROM THE GUTTER FLOWLINE
5. CURB RAMP INSTALLATION SHALL COMPLY WITH CALTRANS STANDARD PLAN A88A IF FIELD CONDITIONS DIFFER.

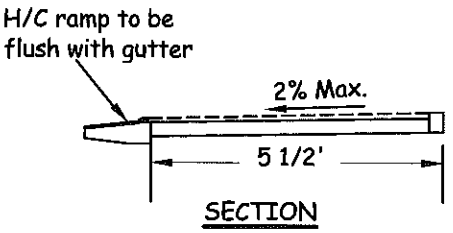
CURB RAMP DETAILS

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ City Engineer	DATE: 7.27.10	1-24

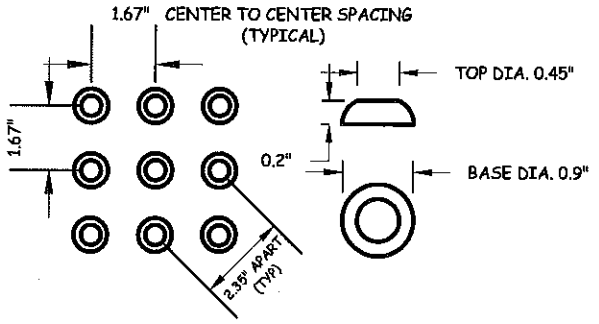


SEE NOTES 3,4

TRAPEZOID PLATE TO BE ADJUSTED TO FIT.
NO CUTTING RECOMMENDED.



NOTE: IF SIDEWALK IS LESS THAN 5', FULL WIDTH OF SIDEWALK SHALL BE DEPRESSED.



DETECTABLE WARNING SURFACE DETAILS
YELLOW CAST IN PLACE COMPOSITE TACTILE BY ADA SOLUTIONS, INC.

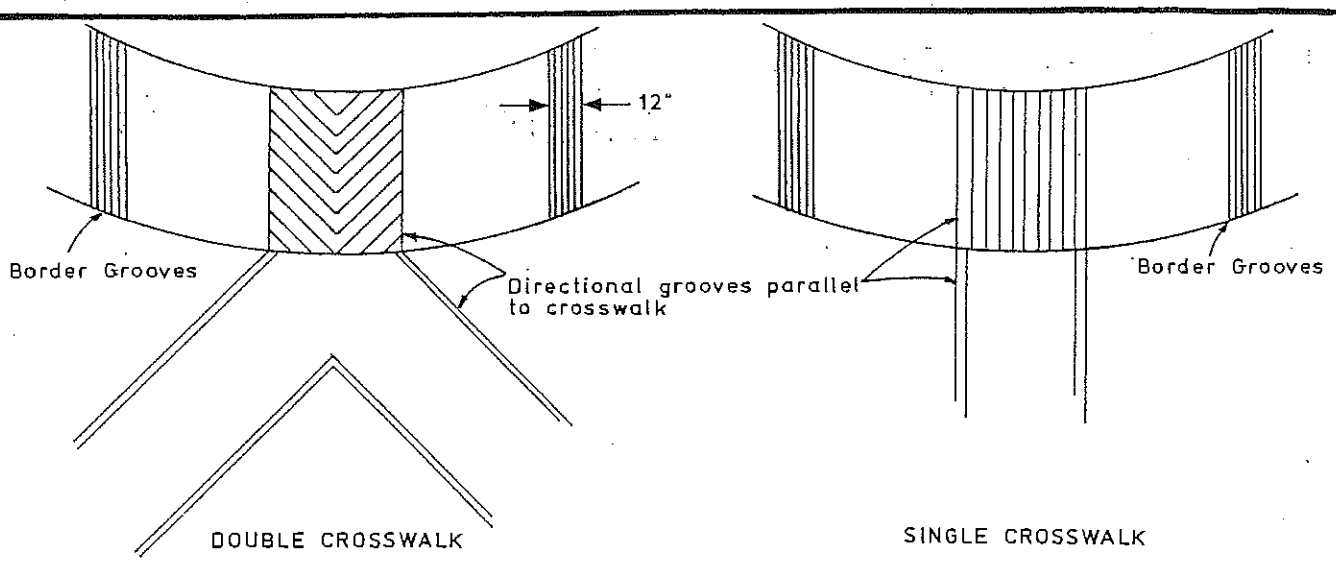
CASE C

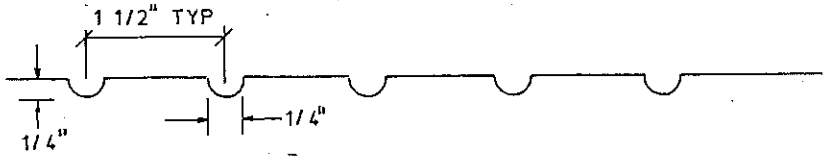
NOTES

1. RAMP TO BE MINIMUM 4" P.C.C. ON 3" CLASS 2 AGGREGATE BASE WITH HEAVY BROOM FINISH TRANSVERSE TO AXIS OF RAMP.
2. CURB RAMPS TO BE PLACED MONOLITHICALLY WITH CURB, GUTTER & SIDEWALK
3. CURB RAMPS SHALL HAVE DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH AND DEPTH OF THE CURB RAMP. DETECTABLE WARNING SURFACE SHALL CONFORM TO THE DETAILS ON THIS PLAN. USE YELLOW CAST-IN-PLACE COMPOSIT TACTILE BY ADA SOLUTIONS, INC. (LARGE TRAPEZOID 36"X24") OR CITY APPROVED EQUAL. INSTALL PER MANUFACTURERS SPECIFICATION.
4. THE EDGE OF THE DETECTABLE WARNING SURFACE NEAREST THE STREET SHALL BE BETWEEN 6" AND 8" FROM THE GUTTER FLOWLINE
5. CURB RAMP INSTALLATION SHALL COMPLY WITH CALTRANS STANDARD PLAN A88A IF FIELD CONDITIONS DIFFER.

CURB RAMP DETAIL

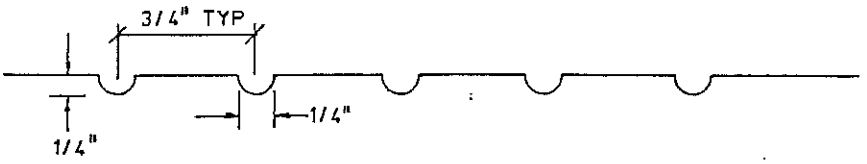
CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ City Engineer DATE: 7.27.10	1-25





DIRECTIONAL GROOVE DETAIL

THE SURFACE OF EACH CURB RAMP LOCATED IN THE CENTER OF THE CURB RETURN SHALL BE GROOVED PARALLEL TO THE CENTERLINE OF THE CROSSWALKS TYPICALLY IN TWO DIRECTIONS WITH 1/4 INCH X 1/4 INCH (6.35mm X 6.35mm) GROOVES 1 1/2 INCHES (38.1mm) ON CENTER. WHERE ONLY ONE CROSSWALK EXISTS, RAMP SHALL BE GROOVED IN ONE DIRECTION ONLY, PARALLEL WITH THE EXISTING CROSSWALK.

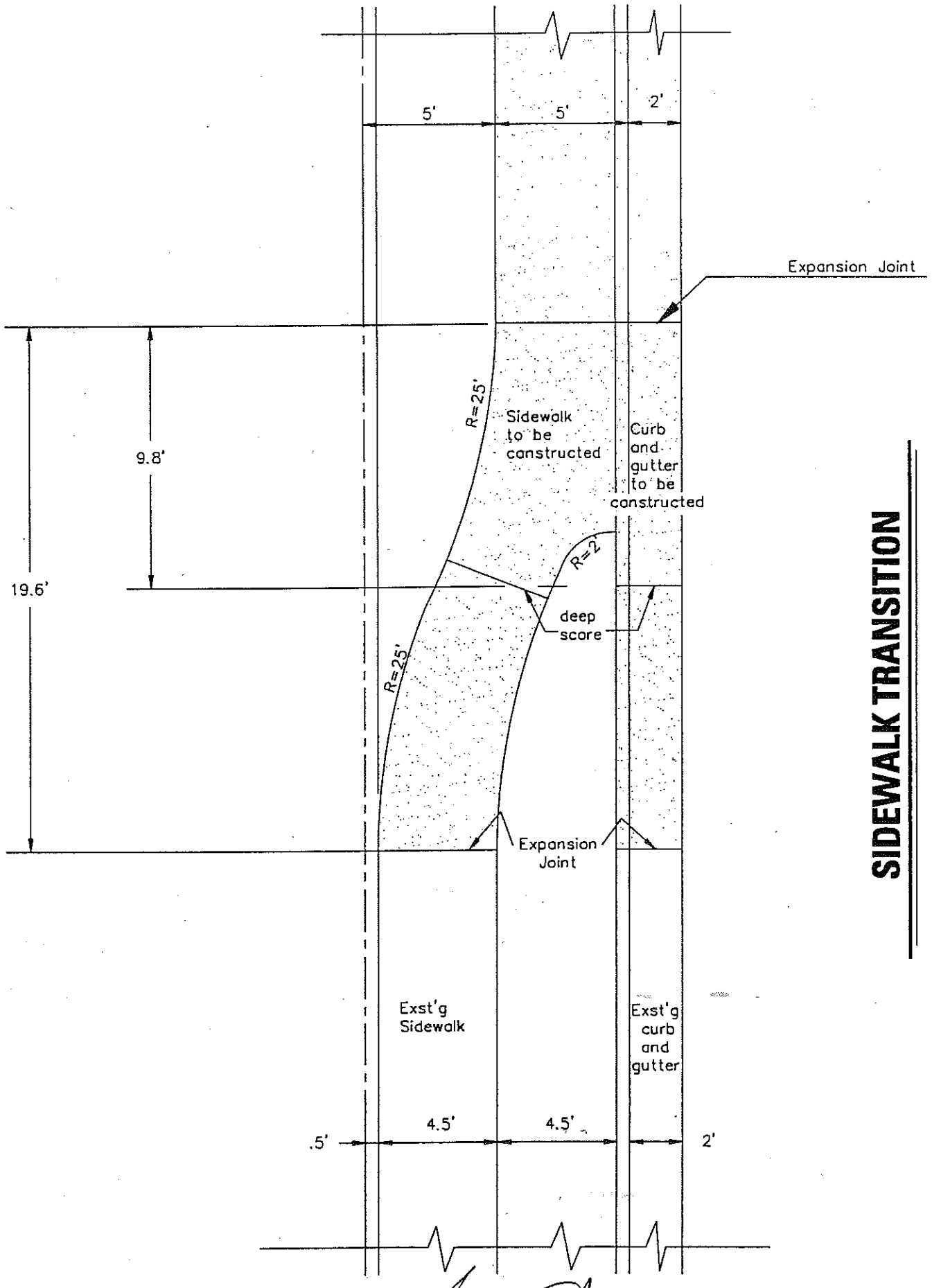


BORDER GROOVE DETAIL

ALL CURB RAMPS SHALL HAVE A GROOVED BORDER 12 INCHES (304.8mm) WIDE AT THE LEVEL SURFACE OF THE SIDEWALK ALONG THE TOP AND EACH SIDE 3/4 INCH (19.05mm) ON CENTER.

HANDICAP RAMP DETAILS

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ CITY ENGINEER DATE: 6/29/87	1-26



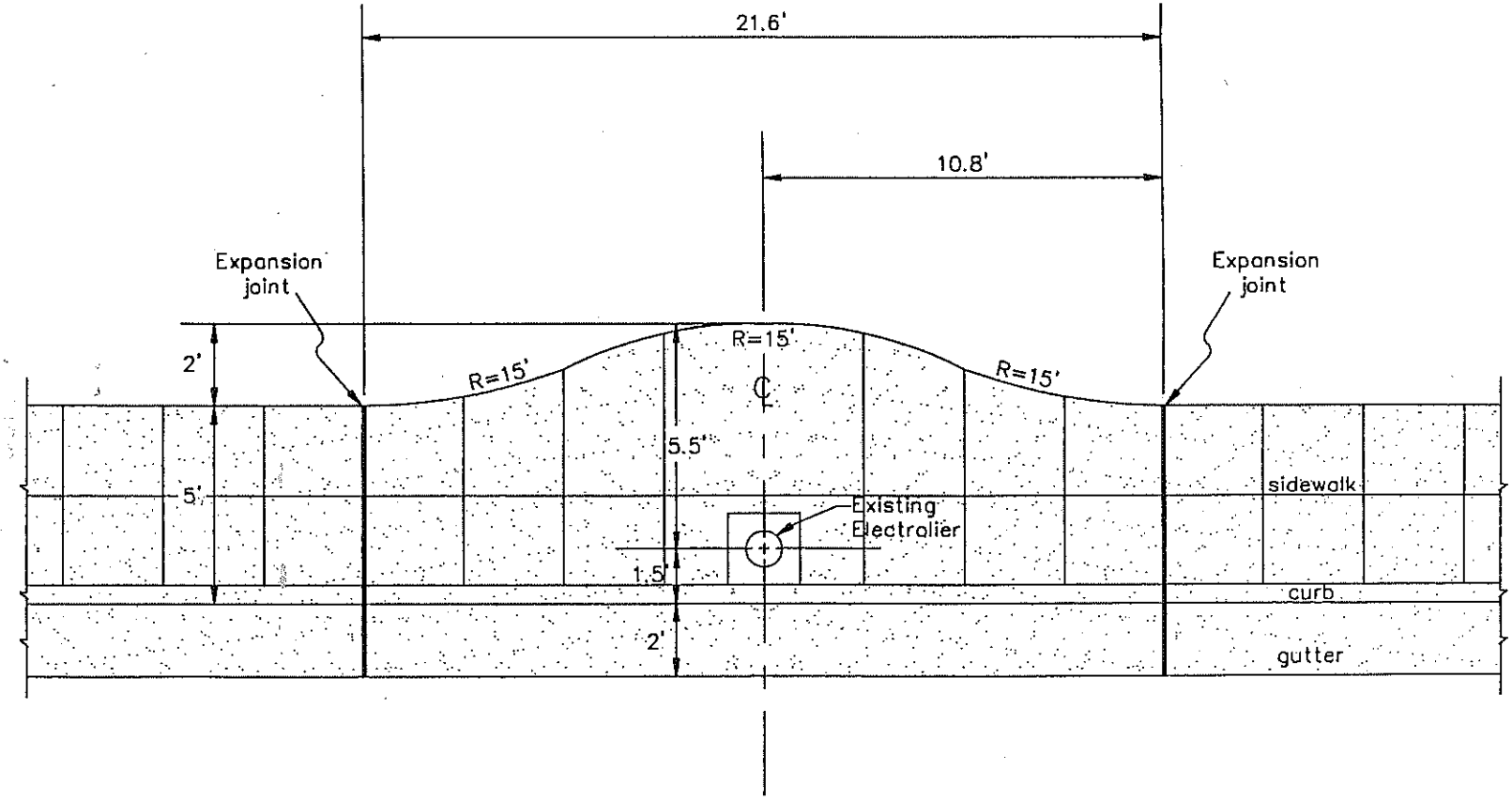
SIDEWALK TRANSITION

CITY OF CUPERTINO
STANDARD DETAILS

APPROVED BY: _____ CITY ENGINEER DATE: 5/1/97

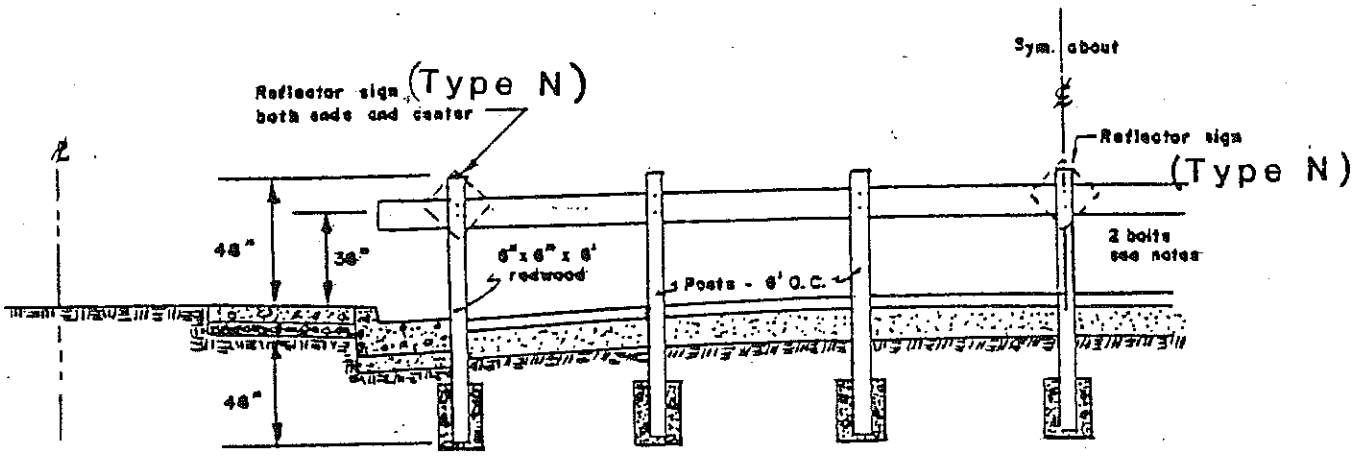
CITY OF CUPERTINO
STANDARD DETAILS

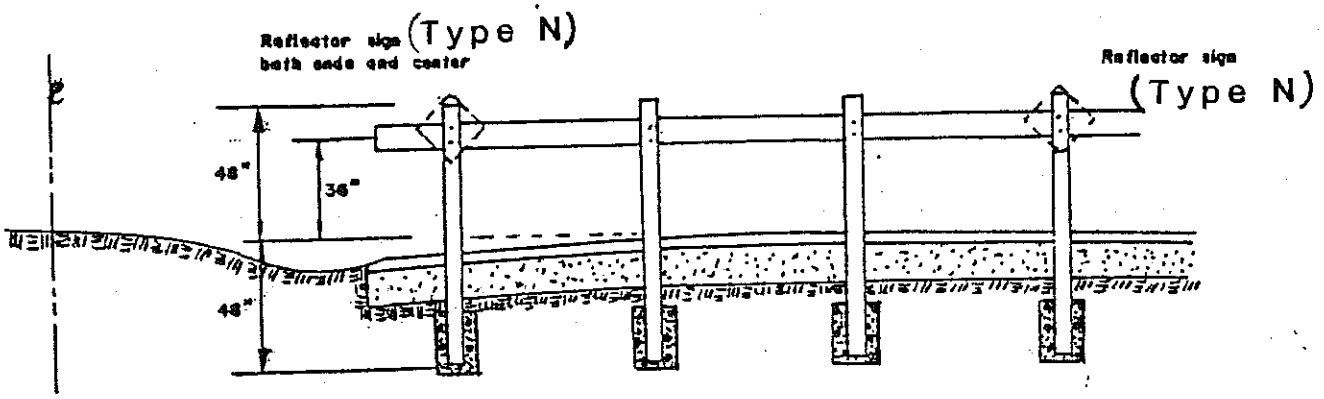
SIDEWALK TRANSITION AROUND EXISTING ELECTROLIER FIRE HYDRANT, UTILITY POLE, OR OTHER OBSTRUCTIONS

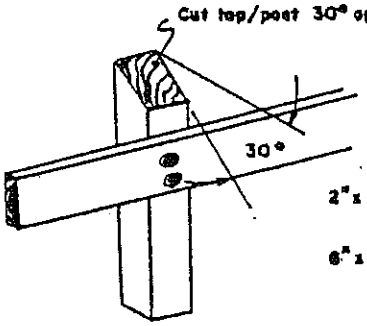


APPROVED BY: _____
CITY ENGINEER

DATE: 5/25/95







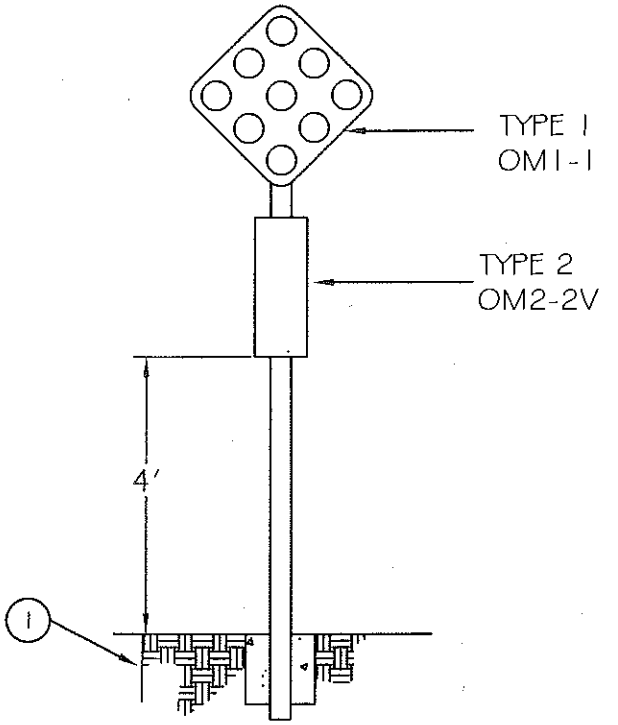
DETAIL

NOTES

1. Rails fastened to posts with 5/8" galv. machine bolts and cast-iron washer
2. Posts shall be cut as per detail
3. Place W21-R reflector signs as shown.
4. Barricades shall be primed and painted with two coats of standard exterior white paint
5. Barricades to be extended over sidewalk as required by engineer.

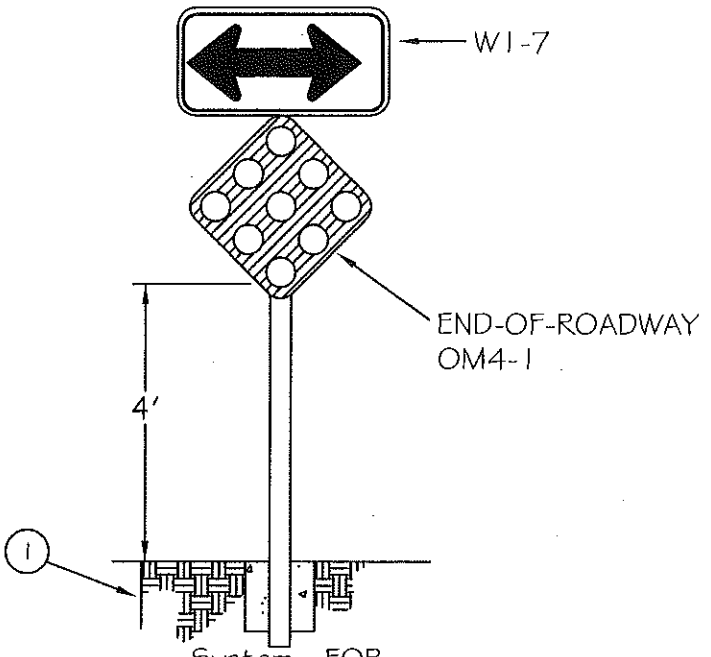
STANDARD STREET BARRICADE

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY : CITY ENGINEER	DATE : 2/10/89	2-2



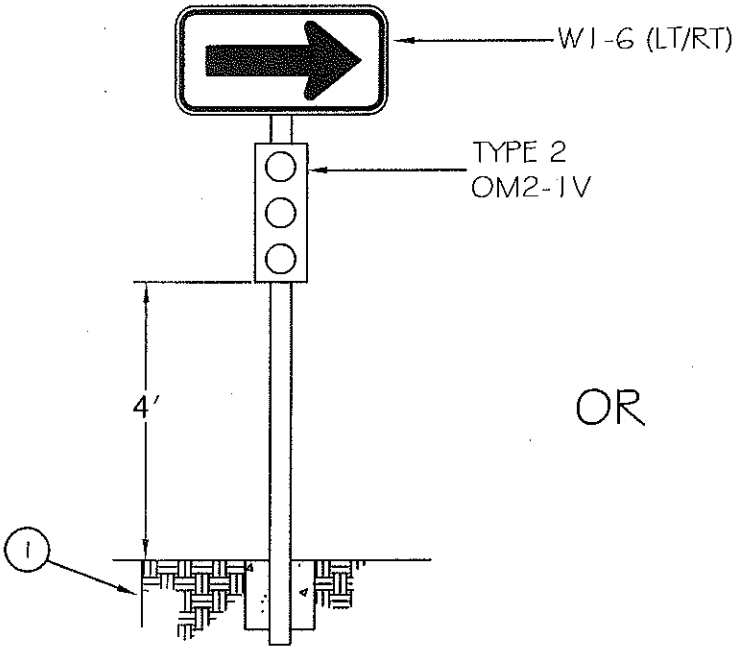
System - OIR

MARKING FOR OBJECTS IN ROADWAY



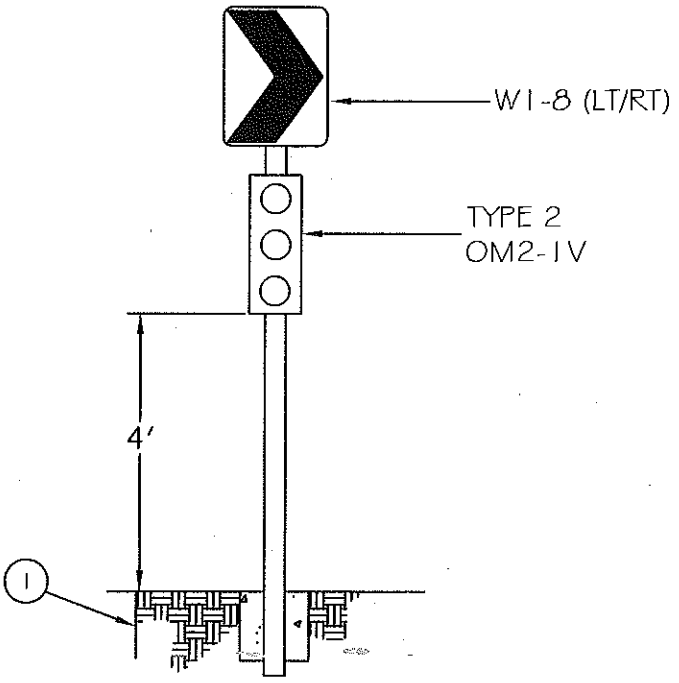
System - EOR

MARKING FOR END-OF-ROADWAY
TOP OF T-INTERSECTIONS



System 1 - OATR

OR



System 2 - OATR

MARKING FOR OBJECTS ADJACENT TO ROADWAY

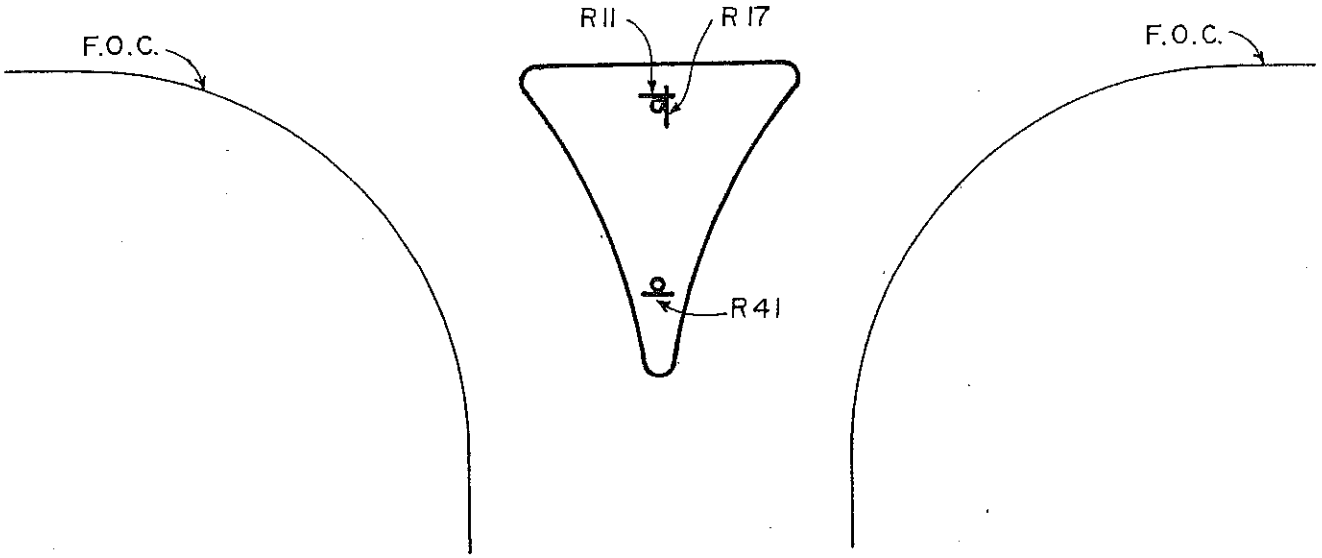
NOTES:

(1) SEE CITY STANDARD DETAIL 2-20 POST & FOUNDATION.

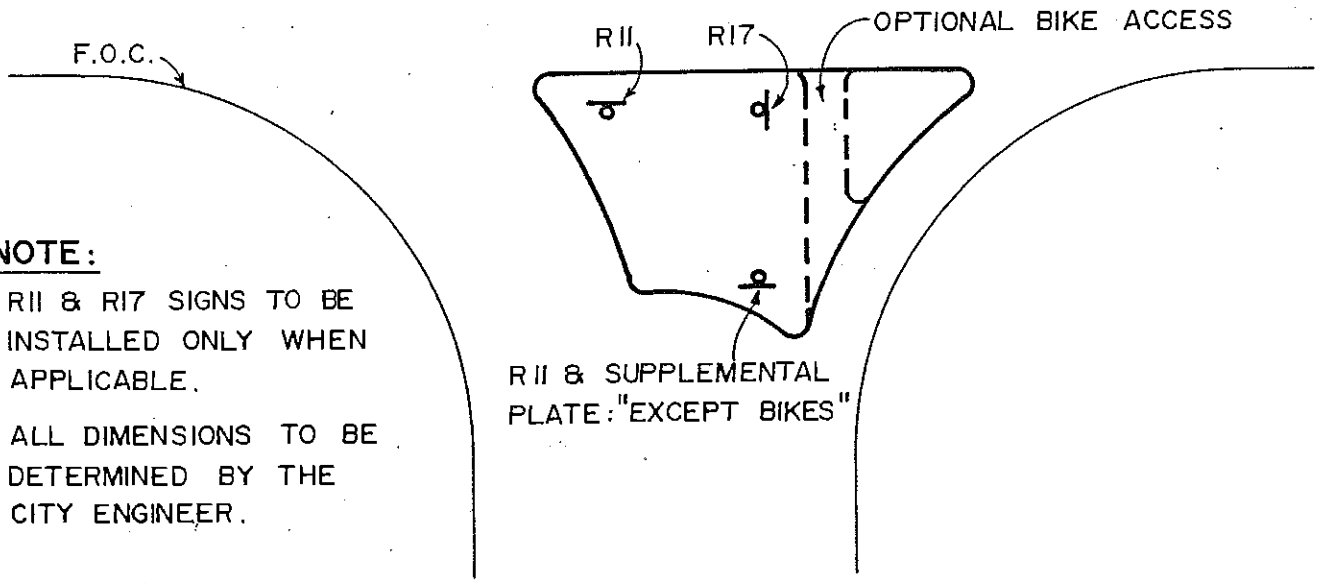
SIGN CODING IS MUTCD 2003¢ CALIF SUPPLIMENT ANS SUBSEQUENTIAL REVISIONS.

OBJECT MARKING DETAIL

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: RAdams City Engineer DATE: 1.8.07	2-3



RIGHT TURN IN & OUT



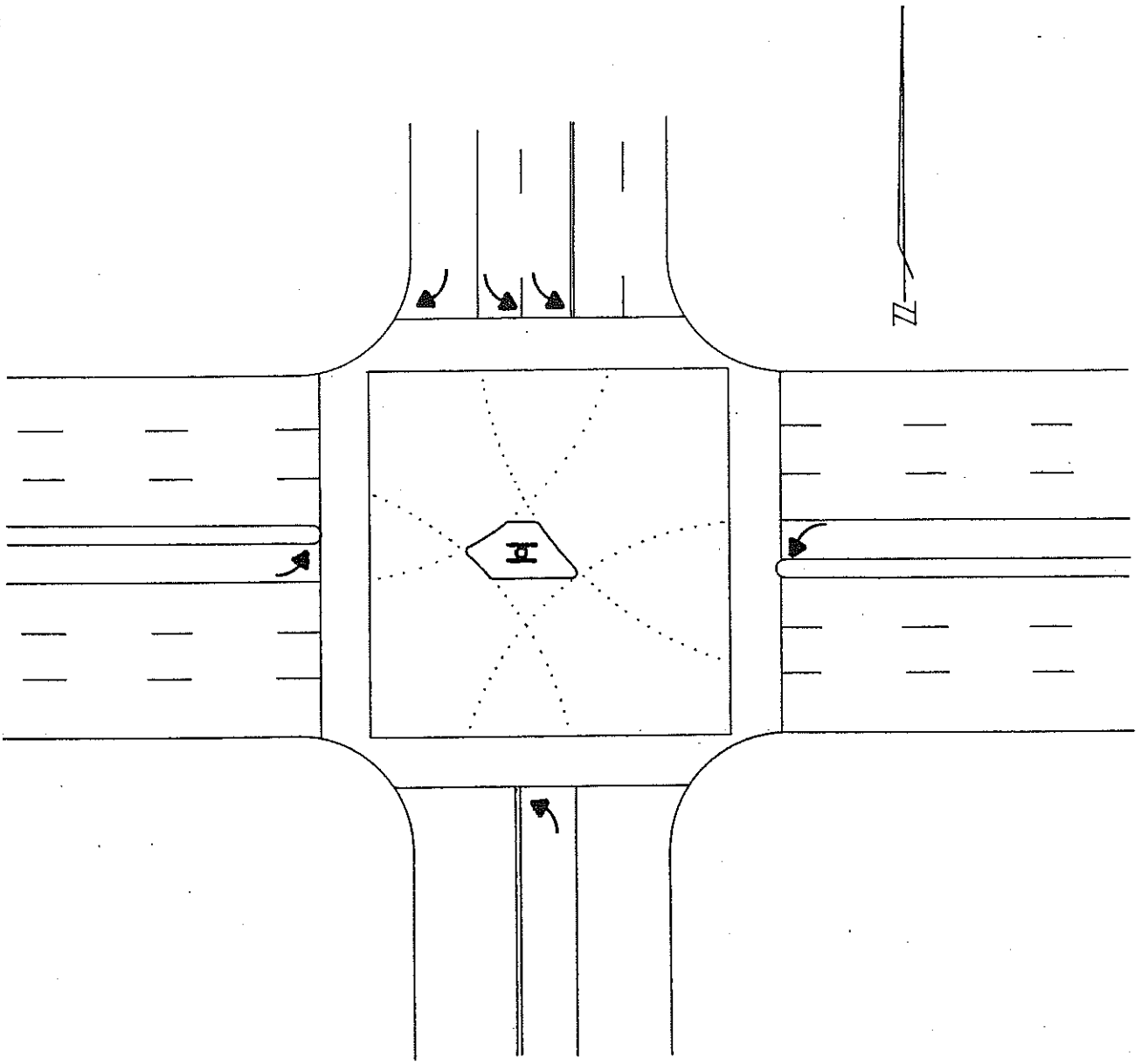
NOTE:

1. R11 & R17 SIGNS TO BE INSTALLED ONLY WHEN APPLICABLE.
2. ALL DIMENSIONS TO BE DETERMINED BY THE CITY ENGINEER.

RIGHT TURN IN

ACCESS CONTROL ISLANDS

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ CITY ENGINEER DATE: 8-14-89	2—16

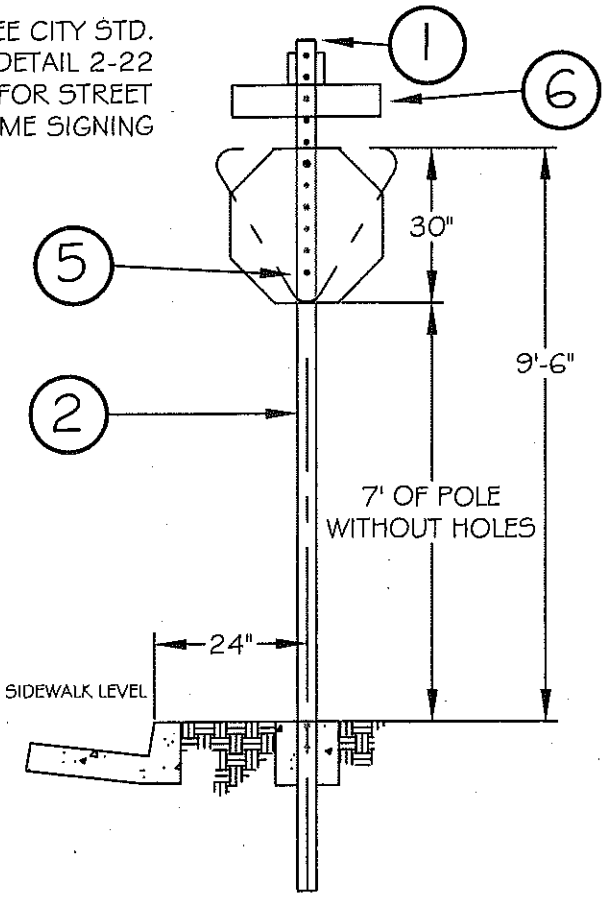


NOTE: THIS SKETCH ILLUSTRATES THROUGH MOVEMENT PROHIBITED FROM NORTH TO SOUTH, AND IS NOT TYPICAL OF ALL LOCATIONS. OTHER MOVEMENT CONTROLS REQUIRE DIFFERENT ISLAND CONFIGURATIONS.

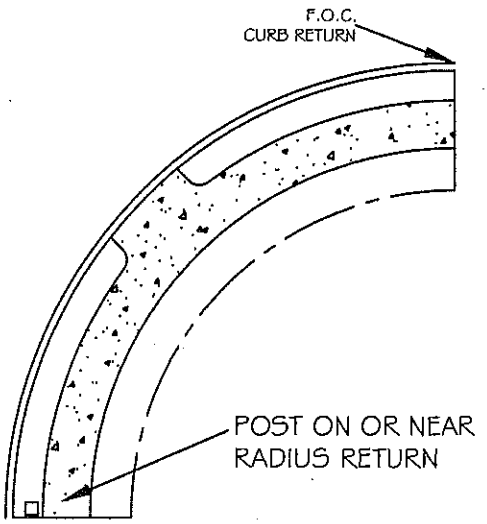
THROUGH MOVEMENT CONTROL ISLAND

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: CITY ENGINEER DATE: 8-14-89	2-18

SEE CITY STD. DETAIL 2-22 FOR STREET NAME SIGNING



SECTION VIEW
RESIDENTIAL



SIGN LOCATION
RESIDENTIAL

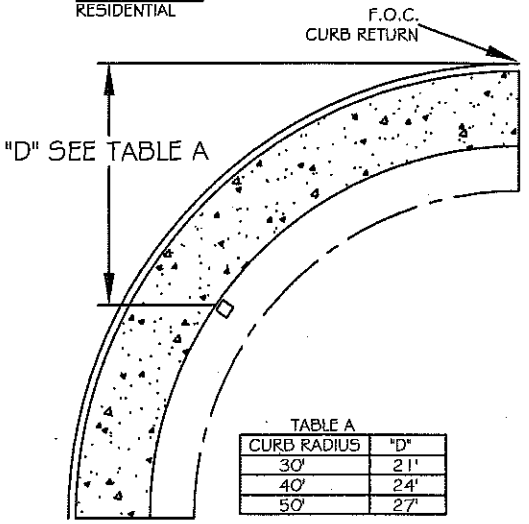
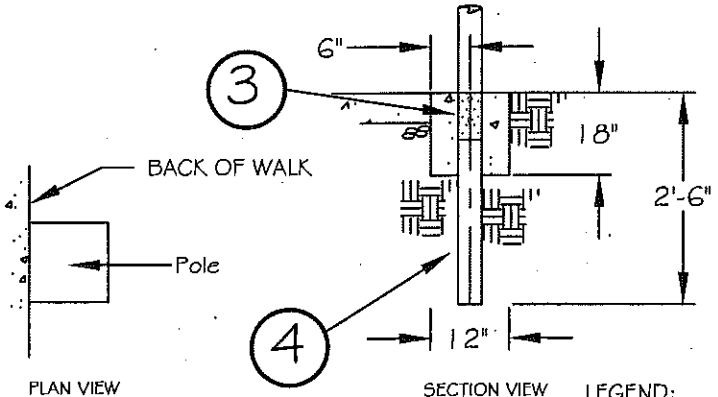


TABLE A

CURB RADIUS	"D"
30'	21'
40'	24'
50'	27'

SIGN LOCATION
8'-0" WIDE MONOLITHIC SIDEWALK

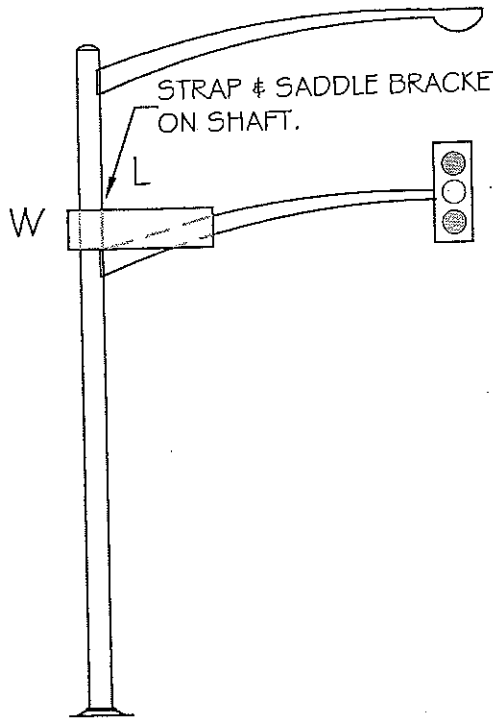


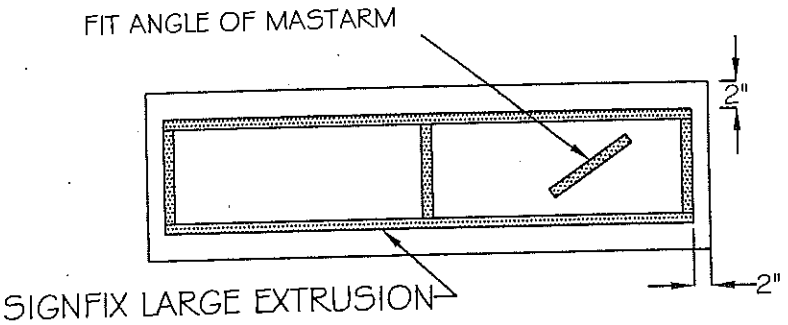
PLAN VIEW
BEHIND WALK

SECTION VIEW
FOUNDATION

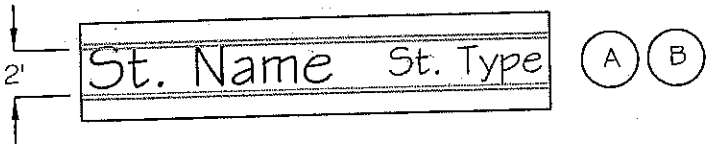
LEGEND:

1. Install 2" rain cap, Western Highway or equal, part No. 2UM-RC200.
2. Two (2) inch square select punch 14 gage from Western Highway or equal, part No. 2UM-200 1204-SPC (10') and 2UM-200 1444-SPC (12'). Holes on all four (4) sides.
3. Six (6) inches of holes below grade, four (4) drive rivets one on each side, holes on all four (4) sides, and apply at least six (6) inches of tape on sleeve.
4. Sleeve & anchor assembly data.
   Ultimate shear-safe anchor, Western Highway or equal, part No. 2UM-2250302HG4.
   Must leave two (2) holes above ground. Sleeve 2 1/2" X 18", Western Highway or equal, part No. 2UM-250018 2HG4.
5. Rivets shall match color of sign.
6. Larger name plate on bottom.





TYPICAL BRACKETING



STREET NAME BLADE SHALL BE MOUNTED BETWEEN THE SHAFT AND THE MASTARM.

SIGN SIZE:
L = FIT TEXT
W = 18"

LETTERING:
STYLE "BOOKMAN BOLD"

3M DIAMOND GRADE SHEETING OR CITY APPROVED EQUAL W/ EC OVERLAY FILM

WHITE LETTERS & BORDER ON BLUE BACKGROUND

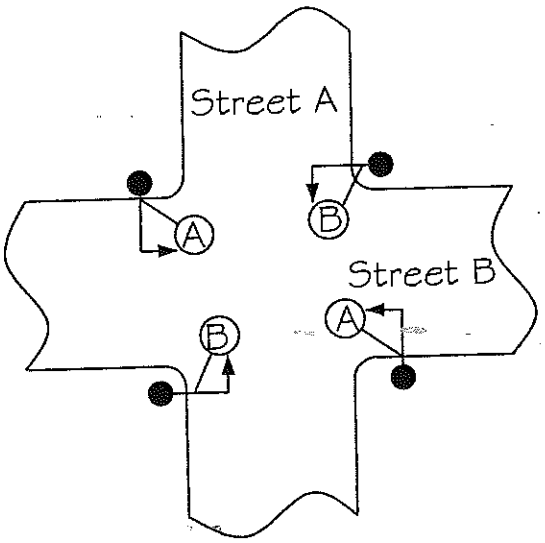
BORDER:
NO MARGIN - 1" WHITE BORDER

HARDWARE:
SIGNFIX LARGE EXTRUSION,
PART No. SX0130
UNIVERSAL CHANNEL CLAMP
PART NO. SX0220

- STREET NAME = 8" UC LETTERS (FIRST LETTER) REMAINING LETTERS LOWER CASE

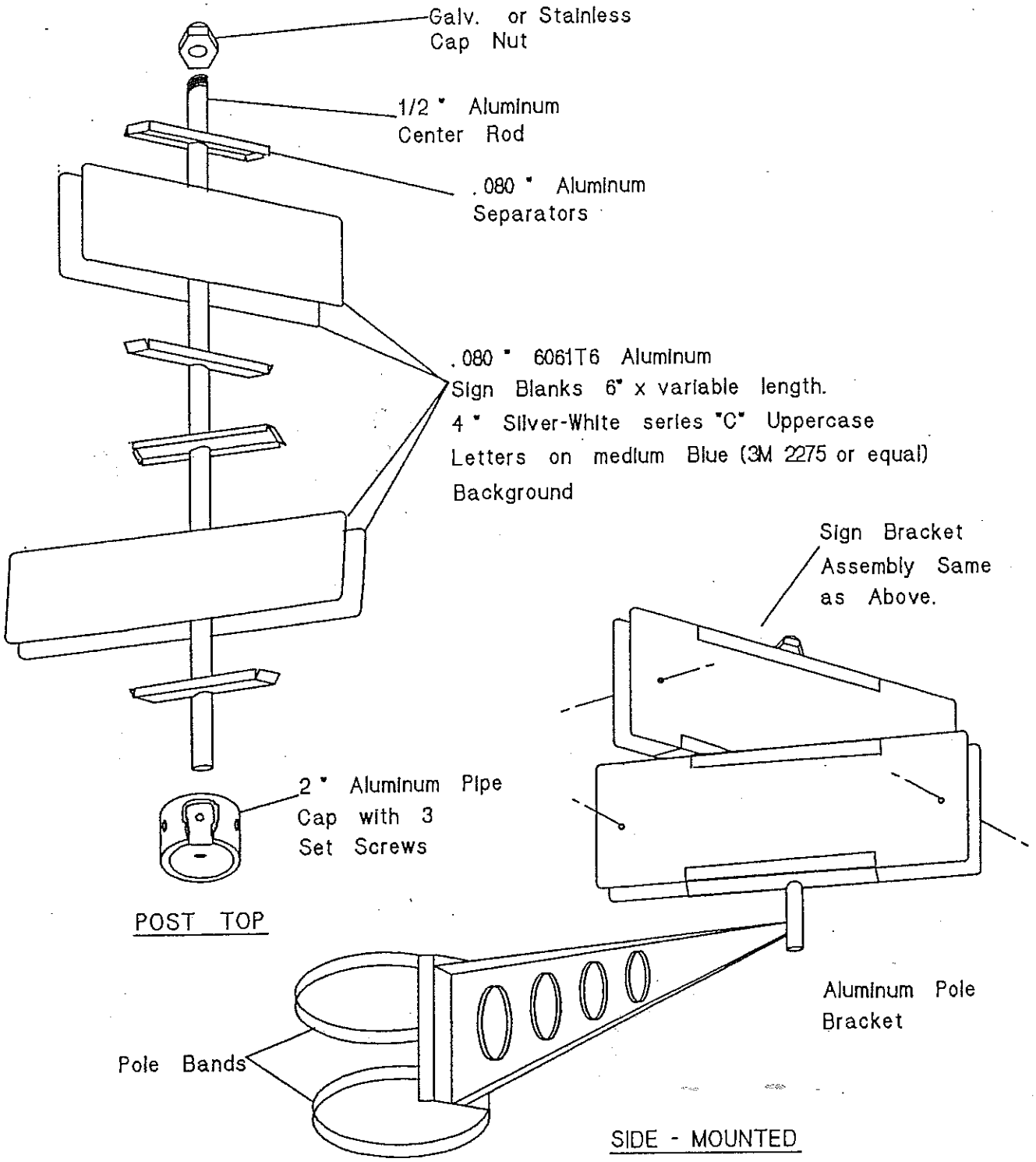
- STREET TYPE (I.E. AVE., LN., CT.) = 5" UC (FIRST LETTER) REMAINING LETTERS LOWER CASE
LETTERS CENTERED ON STREET NAME.

TYPICAL LETTERING



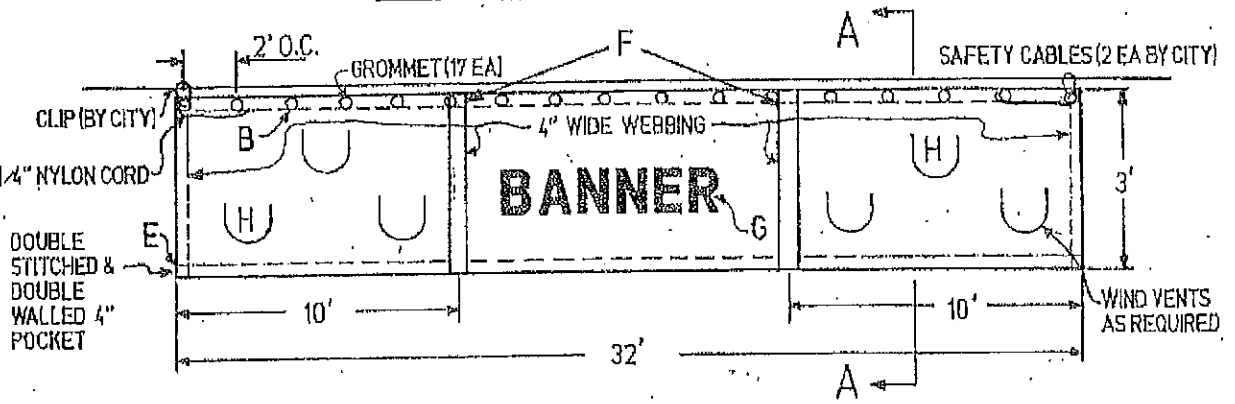
GENERAL MATERIAL & INSTALLATION FOR TRAFFIC SIGNAL POLES

TYPICAL SIGN INSTALLATION AT SIGNALIZED INTERSECTION

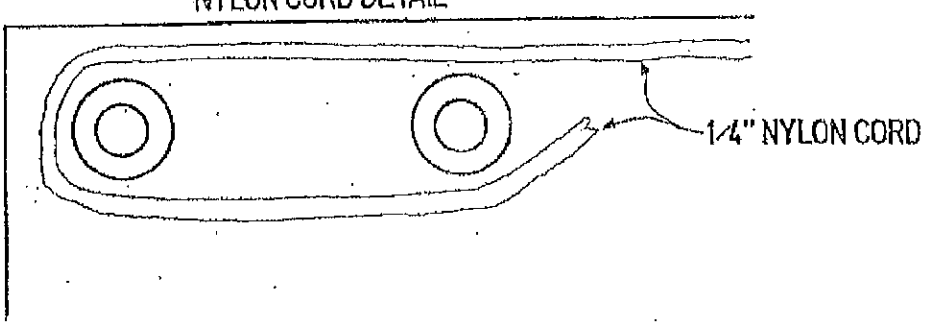


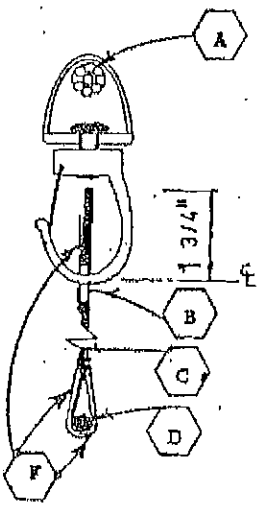
CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ CITY ENGINEER DATE: 7/27/94	2 - 22

PUBLIC SERVICE BANNER



NYLON CORD DETAIL





SECTION A-A

GENERAL NOTES

A. 1/2" diameter support cable with attachment clips (by City).

B. 5/8" interior diameter grommet: 2'-0" O.C. (17 ea.).

C. Banner weight not to exceed 35 pounds.

D. Double walled reinforced 4" pocket to freely accept 2-1/2" diameter rod: rod weight 3/4± lb/ft; double stitch with #12 dacron thread.

E. Webbing to lap pocket.

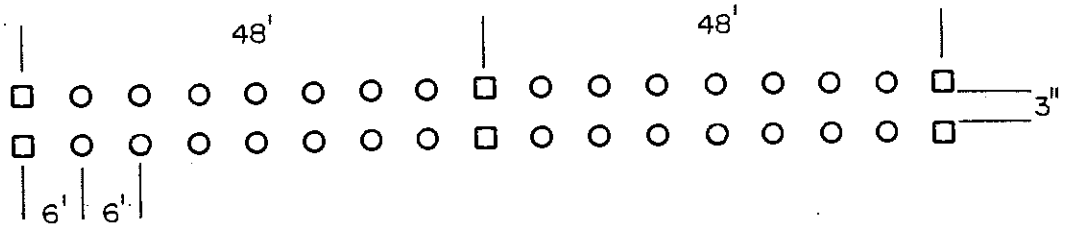
F. Two (2) each batten (3/8" x 2") pockets with lapped closure at top with velcro flap. Use 4" wide webbing 10' from each end.

G. Minimum letter size - 4" high. High contrast coloring is suggested with bold font.

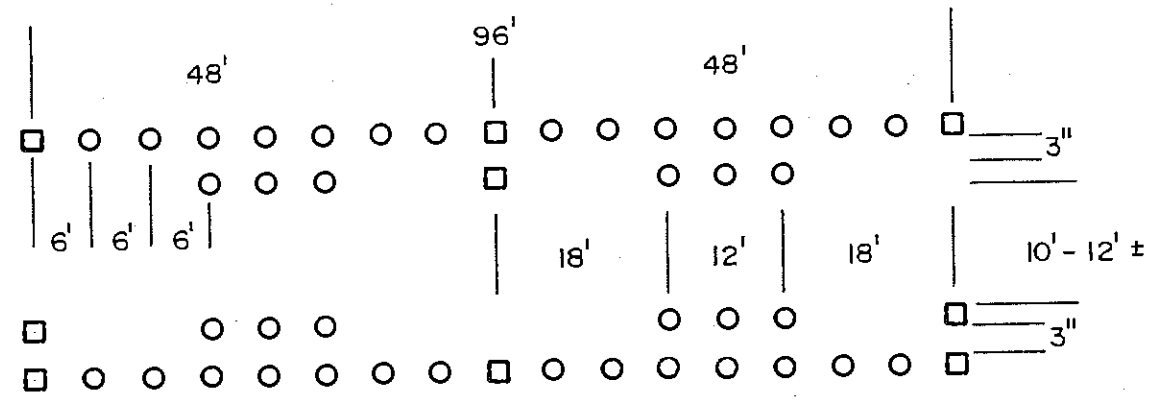
H. Wind vents cut across banner - (minimum 12-approx. 6" x 6").

I. 1/2" nylon cord approx. 36' looped at both ends.

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: CITY ENGINEER	DATE: 6/26/13	2-24



DETAIL 23C



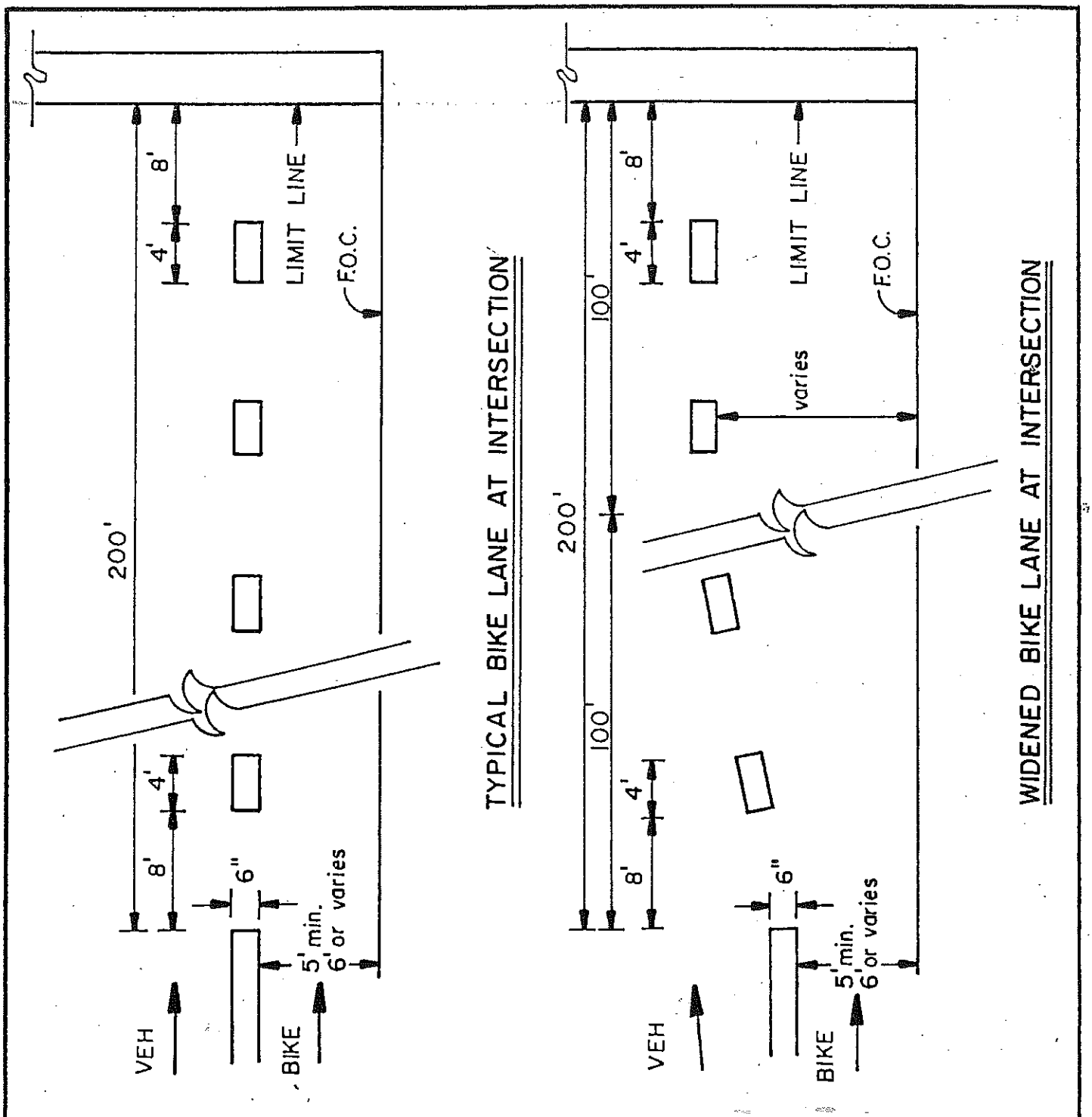
DETAIL 33C

LEGEND

□ TWO-WAY YELLOW REFLECTIVE MARKER

○ NON-REFLECTIVE YELLOW MARKER

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY : _____ CITY ENGINEER DATE : 2/10/89	2-26

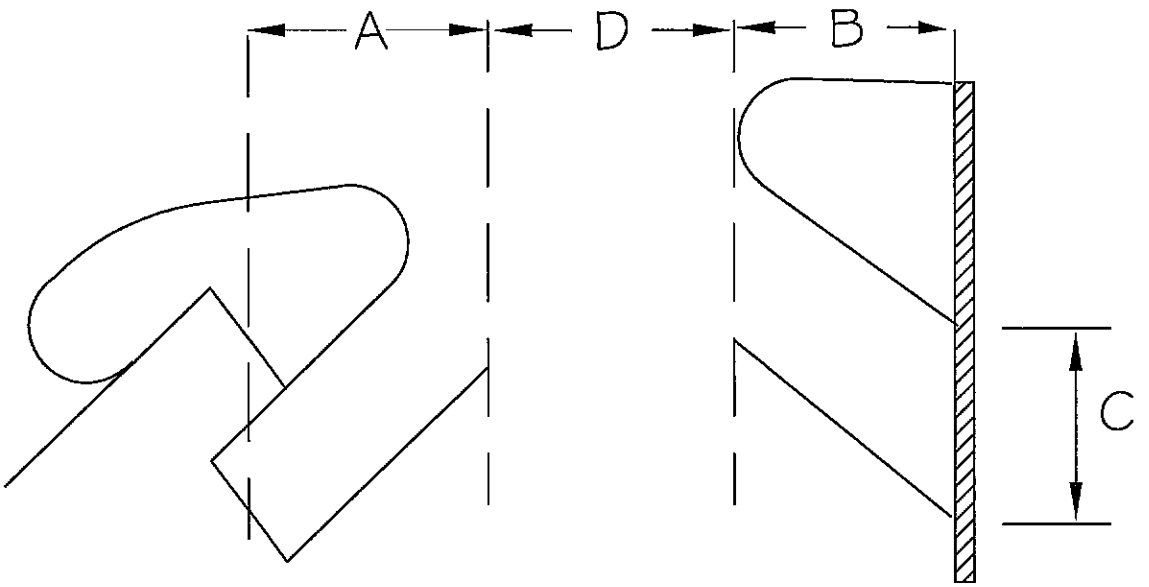


DETAIL 39AC

BIKE LANE DETAILS

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ CITY ENGINEER	DATE: 8/22/89	2-27

Angle (Degrees)	Stall Width	Stall Depth "A"	Stall Depth "B"	Curb Length "C"	Aisle Width "D"	
					One-Way	Two-Way
0	8.0	N/A	N/A	N/A	12.0	20.0
30	8.5	12.7	16.4	17.0	14.0	22.0
35	8.5	13.8	17.3	14.8	14.0	22.0
40	8.5	14.8	18.1	13.2	14.5	22.0
45	8.5	15.7	18.7	12.0	15.0	22.0
50	8.5	16.5	19.3	11.1	15.0	22.0
55	8.5	17.2	19.6	10.4	15.5	22.0
60	8.5	17.7	19.8	9.8	16.0	22.0
65	8.5	18.1	19.9	9.4	17.5	23.0
70	8.5	18.4	19.8	9.0	19.0	24.0
75	8.5	18.5	19.6	8.8	20.0	24.0
80	8.5	18.5	19.2	8.6	20.0	24.0
85	8.5	18.3	18.7	8.5	20.0	24.0
90	8.5	18.0	18.0	8.5	20.0	24.0



PARKING AISLES

TWO-WAY AISLE

STALL WIDTH 8.00 Feet * TWO-WAY AISLE
COMPACT VEHICLES ONLY

ANGLE DEGREE	STALL DEPTH "A"	AISLE WIDTH "B"	CURB @WALL "C"	LENGTH "D"	A+B+A	A+B+C	C+B+C
0	8.0	18.0	8.0	18.0	N/A	N/A	N/A
30	11.2	18.0	14.7	16.0	40.4	43.9	47.4
35	12.2	18.0	15.4	13.9	42.3	45.6	48.9
40	13.0	18.0	16.1	12.4	44.1	47.1	50.2
45	13.8	18.5	16.6	11.3	46.1	48.9	51.7
50	14.4	19.0	17.0	10.4	47.9	50.5	53.0
55	15.0	19.5	17.3	9.8	49.5	51.8	54.1
60	15.4	20.0	17.4	9.2	50.8	52.8	54.8
65	15.7	20.5	17.4	8.8	52.0	53.7	55.4
70	15.9	21.0	17.3	8.5	52.9	54.2	55.6
75	16.0	21.5	17.0	8.3	53.5	54.5	55.6
80	16.0	22.0	16.7	8.1	53.9	54.6	55.3
85	15.8	22.5	16.1	8.0	54.1	54.4	54.8
90	15.5	23.0	15.5	8.0	54.0	54.0	54.0

STALL WIDTH 8.50 Feet * TWO-WAY AISLE
COMPACT VEHICLES ONLY

STALL DEPTH "A"	AISLE WIDTH "B"	CURB @WALL "C"	LENGTH "D"	A+B+A	A+B+C	C+B+C
8.0	18.0	8.0	18.0	N/A	N/A	N/A
11.4	18.0	15.1	17.0	40.9	44.5	48.2
12.4	18.0	15.9	14.8	42.7	46.2	49.7
13.2	18.0	16.5	13.2	44.4	47.7	50.9
14.0	18.0	17.0	12.0	45.9	48.9	51.9
14.6	18.0	17.3	11.1	47.2	49.9	52.7
15.1	18.5	17.6	10.4	48.8	51.2	53.6
15.5	19.0	17.7	9.8	50.1	52.2	54.3
15.8	19.5	17.6	9.4	51.2	53.0	54.8
16.0	20.0	17.5	9.0	52.0	53.5	54.9
16.1	20.5	17.2	8.8	52.6	53.7	54.8
16.0	21.0	16.7	8.6	53.0	53.7	54.5
15.8	21.5	16.2	8.5	53.1	53.5	53.9
15.5	22.0	15.5	8.5	53.0	53.0	53.0

COMPACT

STALL WIDTH 9.00 Feet * TWO-WAY AISLE

ANGLE DEGREE	STALL DEPTH "A"	AISLE WIDTH "B"	CURB @WALL "G"	LENGTH "D"	A+B+A	A+B+C	C+B+G
0	8.0	18.0	8.0	22.0	N/A	N/A	N/A
30	12.9	18.0	16.8	18.0	43.8	47.7	51.6
35	14.0	18.0	17.7	15.7	46.0	49.7	53.4
40	15.0	18.0	18.5	14.0	48.0	51.5	54.9
45	15.9	18.0	19.1	12.7	49.8	53.0	56.2
50	16.7	18.0	19.6	11.7	51.4	54.3	57.1
55	17.3	18.0	19.9	11.0	52.7	55.2	57.8
60	17.8	19.0	20.1	10.4	54.7	56.9	59.2
65	18.2	20.0	20.1	9.9	56.4	58.3	60.2
70	18.5	21.0	20.0	9.6	57.9	59.4	61.0
75	18.6	22.0	19.7	9.3	59.1	60.3	61.4
80	18.5	23.0	19.3	9.1	60.0	60.8	61.6
85	18.3	24.0	18.7	9.0	60.6	61.0	61.4
90	18.0	25.0	18.0	9.0	61.0	61.0	61.0

STALL WIDTH 9.50 Feet * TWO-WAY AISLE

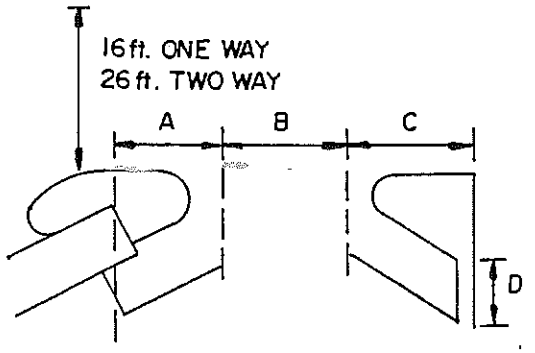
STALL DEPTH "A"	AISLE WIDTH "B"	CURB @WALL "C"	LENGTH "D"	A+B+A	A+B+C	C+B+C
8.0	18.0	8.0	22.0	N/A	N/A	N/A
13.1	18.0	17.2	19.0	44.2	48.3	52.5
14.2	18.0	18.1	16.6	46.4	50.3	54.2
15.2	18.0	18.8	14.8	48.4	52.1	55.7
16.1	18.0	19.4	13.4	50.2	53.5	56.9
16.8	18.0	19.9	12.4	51.7	54.7	57.8
17.5	18.0	20.2	11.6	52.9	55.7	58.4
18.0	18.0	20.3	11.0	53.9	56.3	58.7
18.3	19.0	20.3	10.5	55.6	57.6	59.7
18.5	20.0	20.2	10.1	57.1	58.7	60.3
18.6	21.0	19.8	9.8	58.2	59.5	60.7
18.6	22.0	19.4	9.6	59.1	59.9	60.8
18.3	23.0	18.8	9.5	59.7	60.1	60.5
18.0	24.0	18.0	9.5	60.0	60.0	60.0

STANDARD

STALL WIDTH 10.00 Feet * TWO-WAY AISLE

ANGLE DEGREE	STALL DEPTH "A"	AISLE WIDTH "B"	CURB @WALL "C"	LENGTH "D"	A+B+A	A+B+C	C+B+G
0	8	18.0	8	48(2)	N/A	N/A	N/A
30	13.3	18.0	17.7	20.0	44.7	49.0	53.3
35	14.4	18.0	18.5	17.4	46.8	50.9	55.0
40	15.4	18.0	19.2	15.6	48.8	52.6	56.5
45	16.3	18.0	19.8	14.1	50.5	54.1	57.6
50	17.0	18.0	20.2	13.1	52.0	55.2	58.4
55	17.6	18.0	20.5	12.2	53.2	56.1	59.0
60	18.1	18.0	20.6	11.5	54.2	56.7	59.2
65	18.4	18.0	20.5	11.0	54.9	57.0	59.1
70	18.6	19.0	20.3	10.6	56.2	58.0	59.7
75	18.7	20.0	20.0	10.4	57.4	58.7	59.9
80	18.6	21.0	19.5	10.2	58.2	59.1	59.9
85	18.4	22.0	18.8	10.0	58.7	59.2	59.6
90	18.0	23.0	18.0	10.0	59.0	59.0	59.0

STANDARD



CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: [signature] CITY ENGINEER	DATE: 8/18/89	2-30

ONE-WAY AISLE TWO-WAY AISLE

HANDICAP

STALL WIDTH 9.00 Feet * ONE-WAY AISLE
SINGLE HANDICAP STALL * SPACE ONE SIDE

ANGLE DEGREE	STALL DEPTH "A"	AISLE WIDTH "B"	DEPTH @WALL "C"	CURB LENGTH "D"	A+B+A	A+B+C	C+B+C
0	8.0	10.0	8.0	48(2)	N/A	N/A	N/A
30	12.9	10.0	16.8	28.0	35.8	39.7	43.6
35	14.0	10.0	17.7	24.4	38.0	41.7	45.4
40	15.0	10.0	18.5	21.8	40.0	43.5	46.9
45	15.9	11.5	19.1	19.8	43.3	46.5	49.7
50	16.7	13.0	19.6	18.3	46.4	49.3	52.1
55	17.3	14.5	19.9	17.1	49.2	51.7	54.3
60	17.8	16.0	20.1	16.2	51.7	53.9	56.2
65	18.2	17.5	20.1	15.4	53.9	55.8	57.7
70	18.5	19.0	20.0	14.9	55.9	57.4	59.0
75	18.6	20.5	19.7	14.5	57.6	58.8	59.9
80	18.5	22.0	19.3	14.2	59.0	59.8	60.6
85	18.3	23.5	18.7	14.1	60.1	60.5	60.9
90	N/A	N/A	N/A	N/A	N/A	N/A	N/A

STALL WIDTH 9.00 Feet * TWO-WAY AISLE
DOUBLE HANDICAP STALL * SPACE CENTERED

STALL DEPTH "A"	AISLE WIDTH "B"	DEPTH @WALL "C"	CURB LENGTH "D"	A+B+A	A+B+C	C+B+C
8.0	18.0	8.0	48(2)	N/A	N/A	N/A
12.9	18.0	16.8	46.0	43.8	47.7	51.6
14.0	18.0	17.7	40.1	46.0	49.7	53.4
15.0	18.0	18.5	35.8	48.0	51.5	54.9
15.9	18.0	19.1	32.5	49.8	53.0	56.2
16.7	18.0	19.6	30.0	51.4	54.3	57.1
17.3	18.0	19.9	28.1	52.7	55.2	57.8
17.8	19.0	20.1	26.6	54.7	56.9	59.2
18.2	20.0	20.1	25.4	56.4	58.3	60.2
18.5	21.0	20.0	24.5	57.9	59.4	61.0
18.6	22.0	19.7	23.8	59.1	60.3	61.4
18.5	23.0	19.3	23.4	60.0	60.8	61.6
18.3	24.0	18.7	23.1	60.6	61.0	61.4
18.0	25.0	18.0	23.0	61.0	61.0	61.0

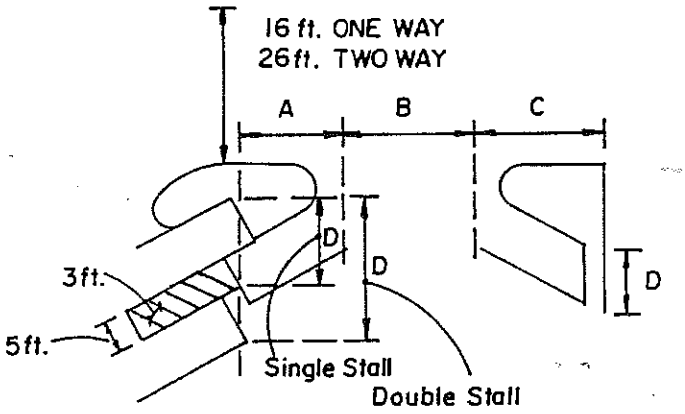
INDUSTRIAL

STALL WIDTH 8.67 Feet * ONE-WAY AISLE

ANGLE DEGREE	STALL DEPTH "A"	AISLE WIDTH "B"	DEPTH @WALL "C"	CURB LENGTH "D"	A+B+A	A+B+C	C+B+C
0	8.0	10.0	8.0	48(2)	N/A	N/A	N/A
30	12.8	10.0	16.5	17.3	35.5	39.3	43.0
35	13.9	10.0	17.4	15.1	37.7	41.3	44.8
40	14.9	10.5	18.2	13.5	40.3	43.6	46.9
45	15.8	12.0	18.9	12.3	43.6	46.6	49.7
50	16.6	13.5	19.4	11.3	46.6	49.4	52.2
55	17.2	15.0	19.7	10.6	49.5	51.9	54.4
60	17.8	16.5	19.9	10.0	52.0	54.2	56.3
65	18.1	18.0	20.0	9.6	54.3	56.1	58.0
70	18.4	19.5	19.9	9.2	56.3	57.8	59.3
75	18.5	21.0	19.6	9.0	58.0	59.1	60.3
80	18.5	22.5	19.2	8.8	59.5	60.2	61.0
85	18.3	24.0	18.7	8.7	60.6	61.0	61.4
90	N/A	N/A	N/A	N/A	N/A	N/A	N/A

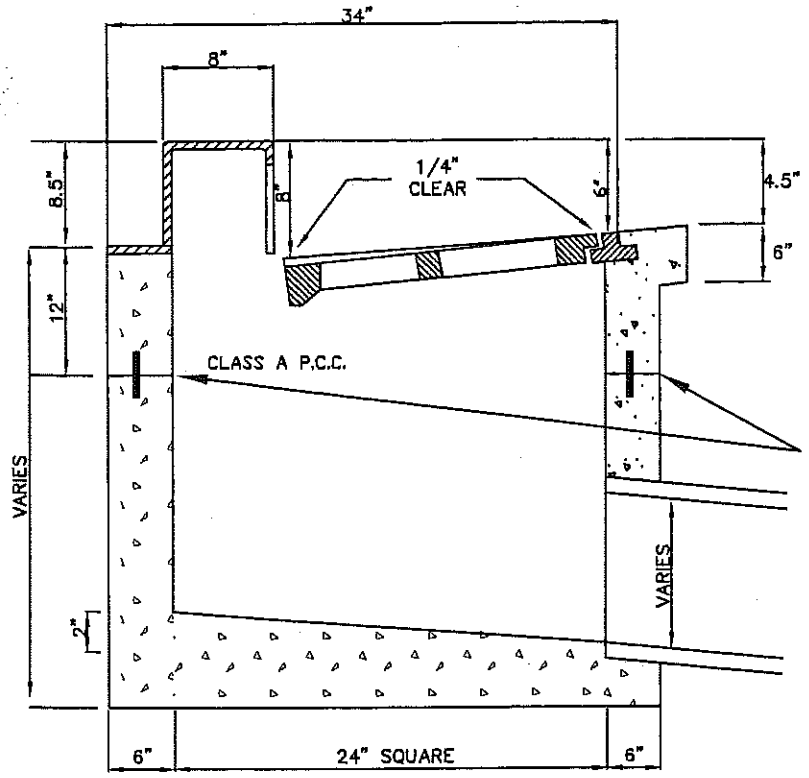
STALL WIDTH 8.67 Feet * TWO-WAY AISLE

STALL DEPTH "A"	AISLE WIDTH "B"	DEPTH @WALL "C"	CURB LENGTH "D"	A+B+A	A+B+C	C+B+C
8	18.0	8	48(2)	N/A	N/A	N/A
12.8	18.0	16.5	17.3	43.5	47.3	51.0
13.9	18.0	17.4	15.1	45.7	49.3	52.8
14.9	18.0	18.2	13.5	47.8	51.1	54.4
15.8	18.0	18.9	12.3	49.6	52.6	55.7
16.6	18.0	19.4	11.3	51.1	53.9	56.7
17.2	18.5	19.7	10.6	53.0	55.4	57.9
17.8	19.5	19.9	10.0	55.0	57.2	59.3
18.1	20.5	20.0	9.6	56.8	58.6	60.5
18.4	21.5	19.9	9.2	58.3	59.8	61.3
18.5	22.5	19.6	9.0	59.5	60.6	61.8
18.5	23.5	19.2	8.8	60.5	61.2	62.0
18.3	24.5	18.7	8.7	61.1	61.5	61.9
18.0	25.5	18.0	8.7	61.5	61.5	61.5

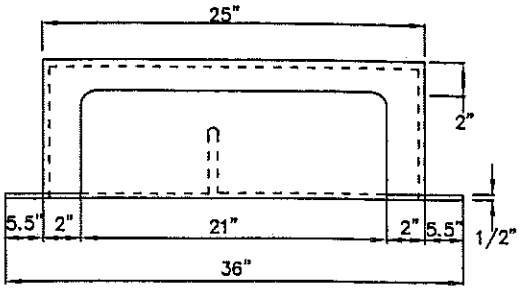


HANDICAP INDUSTRIAL

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ CITY ENGINEER DATE: 8/18/89	2-32

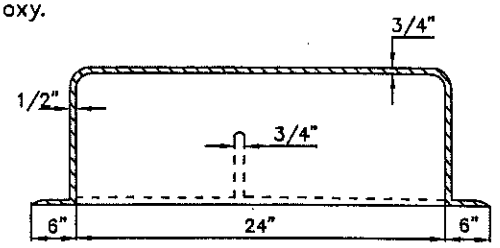


SECTION A-A Showing Concrete Box

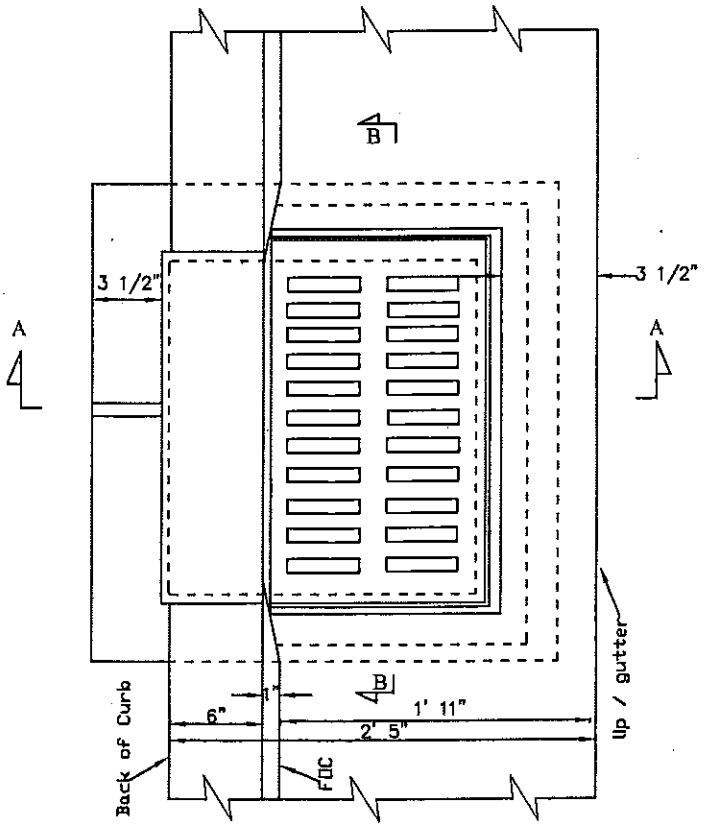


VIEW B-B

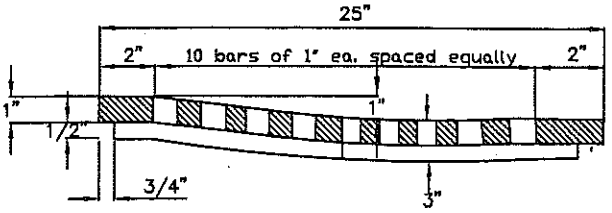
Note: Const. jt. permitted when catch basin top is reconstructed. Place #4 x 12" dowels at each const. jt. Drill holes, blow clean and set dowels in epoxy.



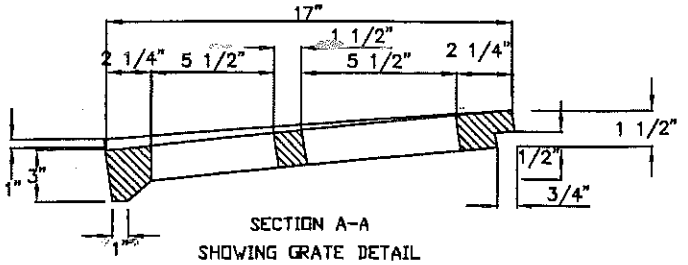
SECTION CURB CASTING



NOTE: Frame dimensions may vary with the approval of the City Engineer.



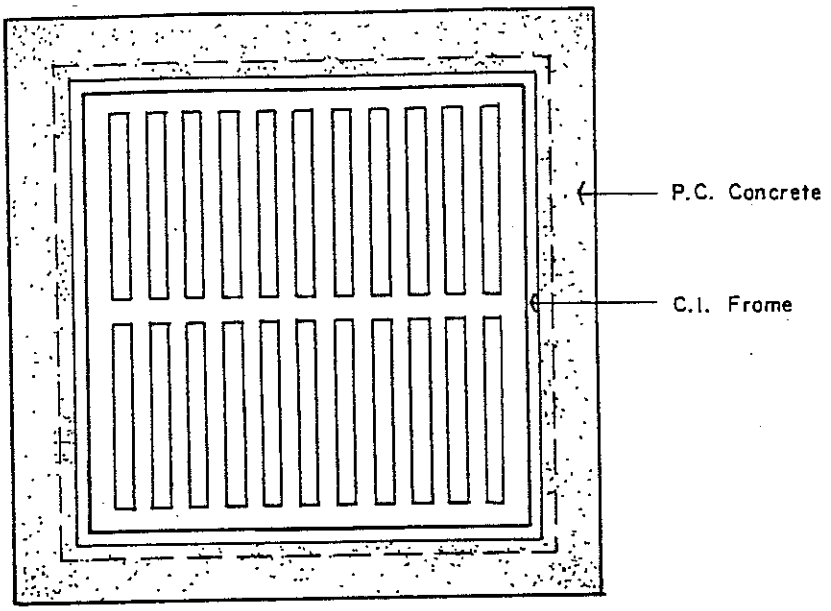
SECTION B-B



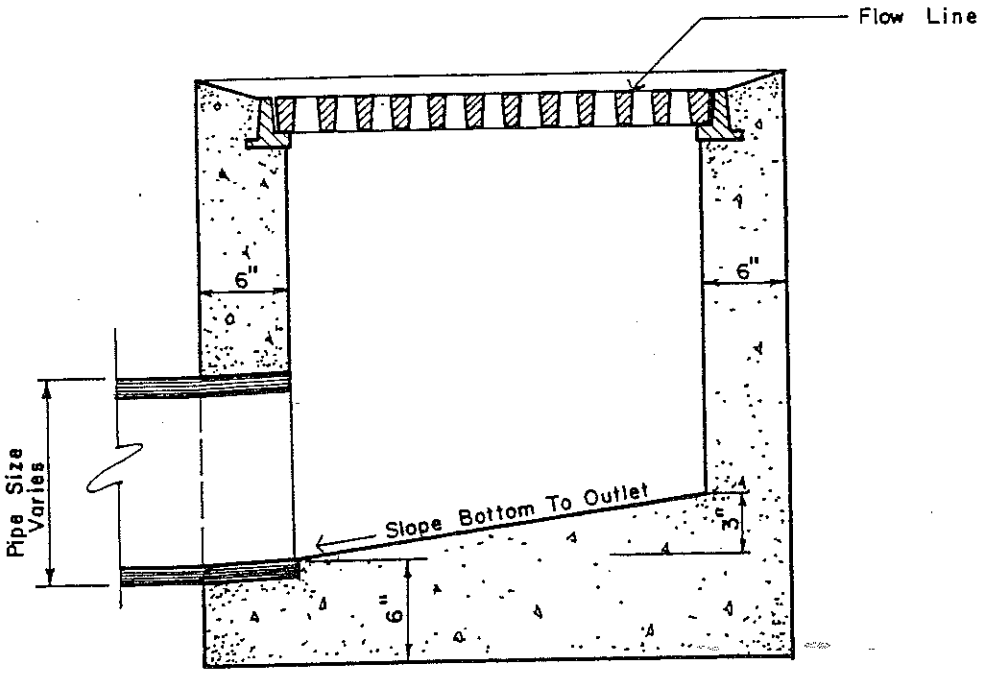
SECTION A-A
SHOWING GRATE DETAIL

STANDARD DROP INLET - CURB OPENING

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ City Engineer DATE: 6.10.07	3-2



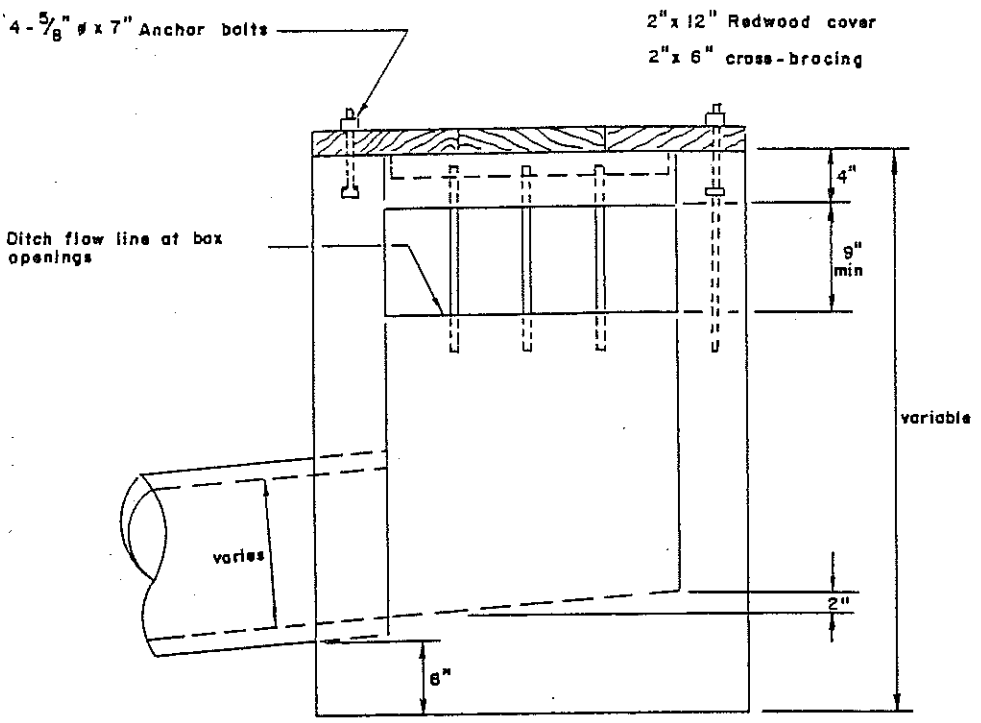
PLAN



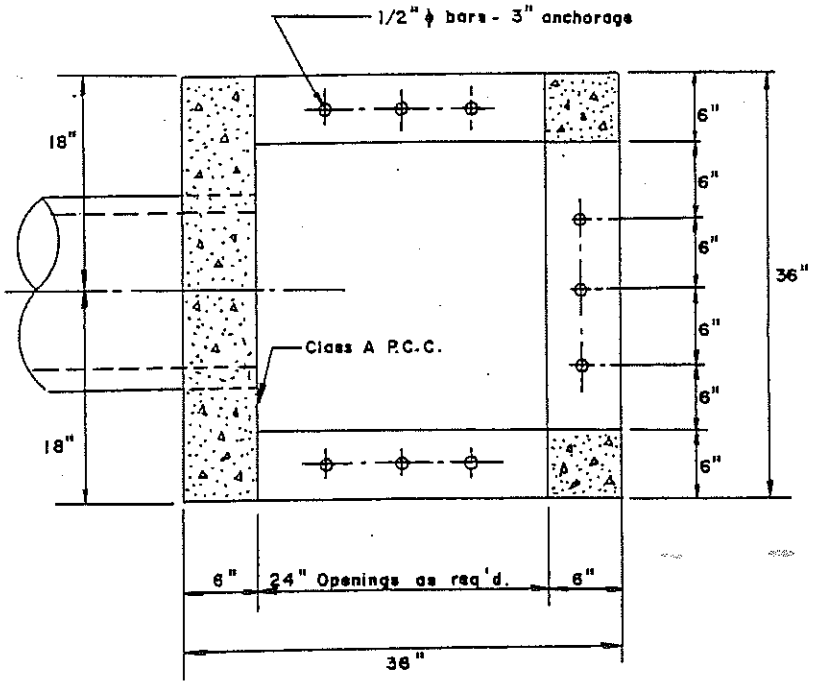
SECTION

STANDARD 24" FLAT GRATE DROP INLET

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ CITY ENGINEER DATE: 2/10/89	3-4



SIDE ELEVATION



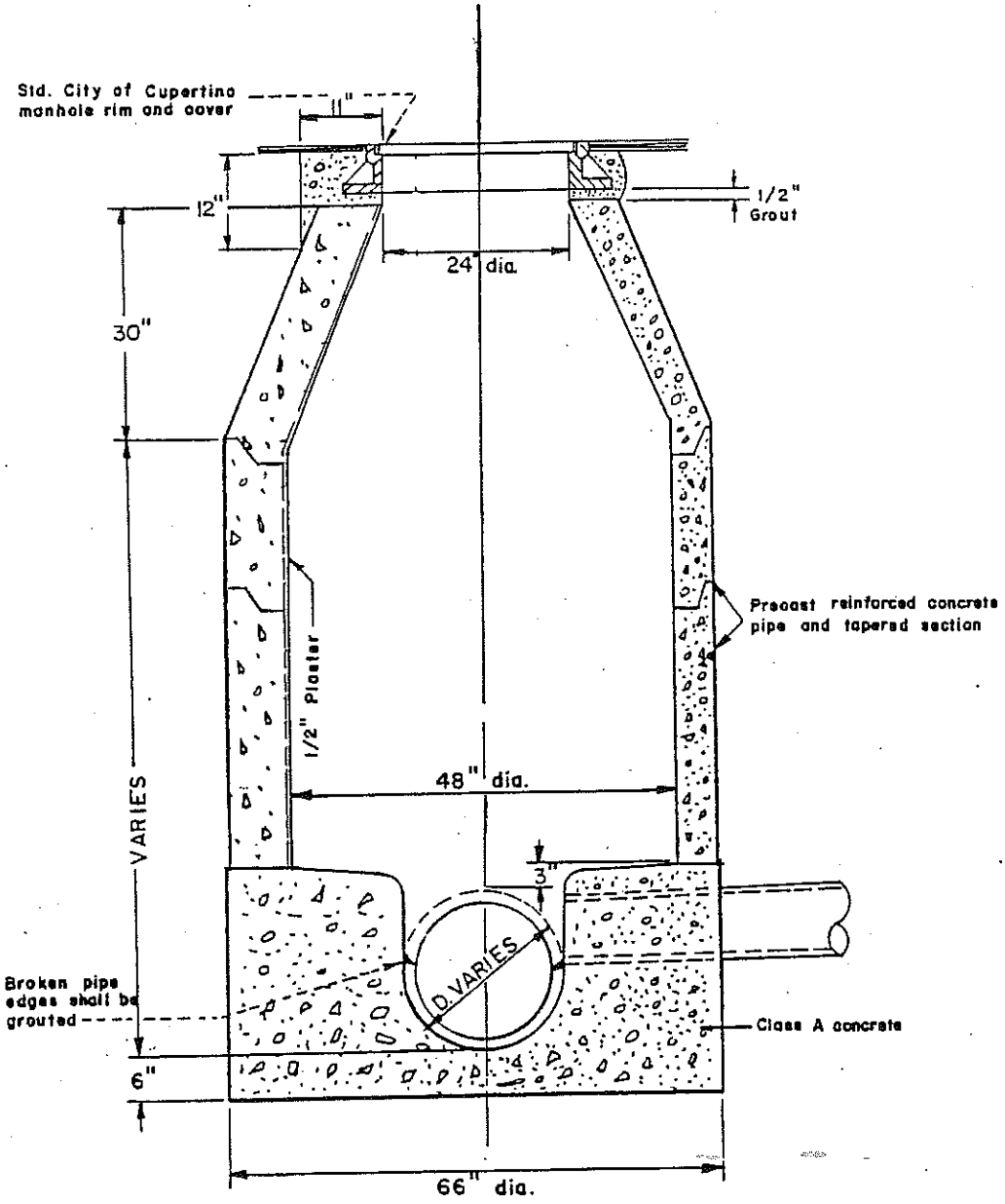
SECTION THROUGH OPENING

FIELD INLET - SIDE OPENING

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: CITY ENGINEER	DATE: 2/10/89	3-8

CONCENTRIC MANHOLE

8" to 33" PIPE

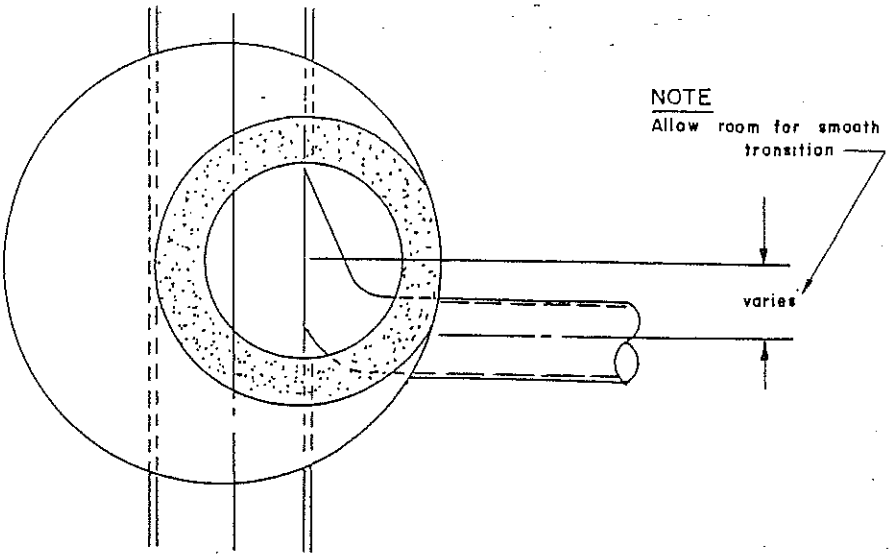


NOTES:

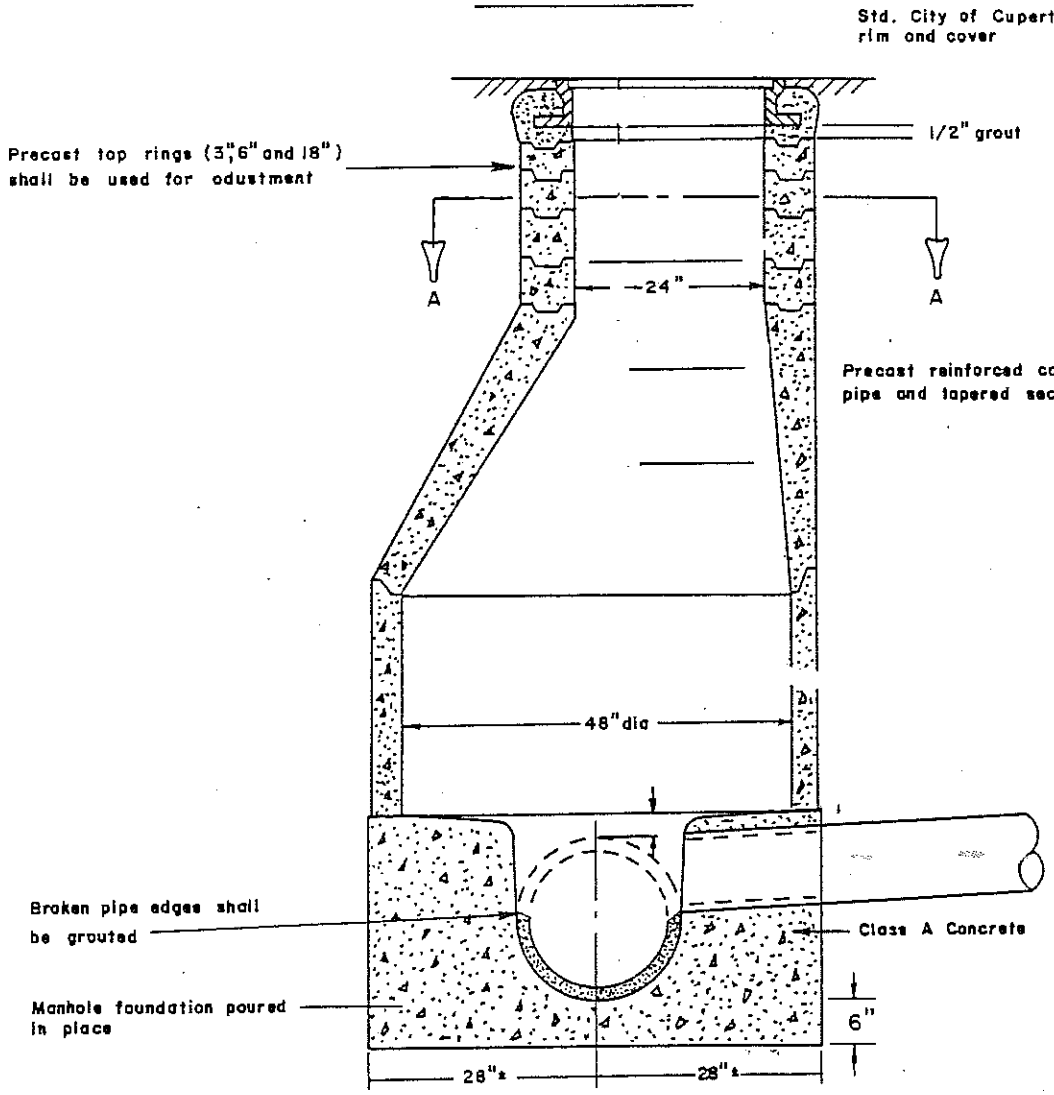
Mortar and grout to conform to Section 65, State Std. Specifications.

Manhole foundation poured in place.

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: CITY ENGINEER DATE: 2/10/84	3-10



SECTION A-A



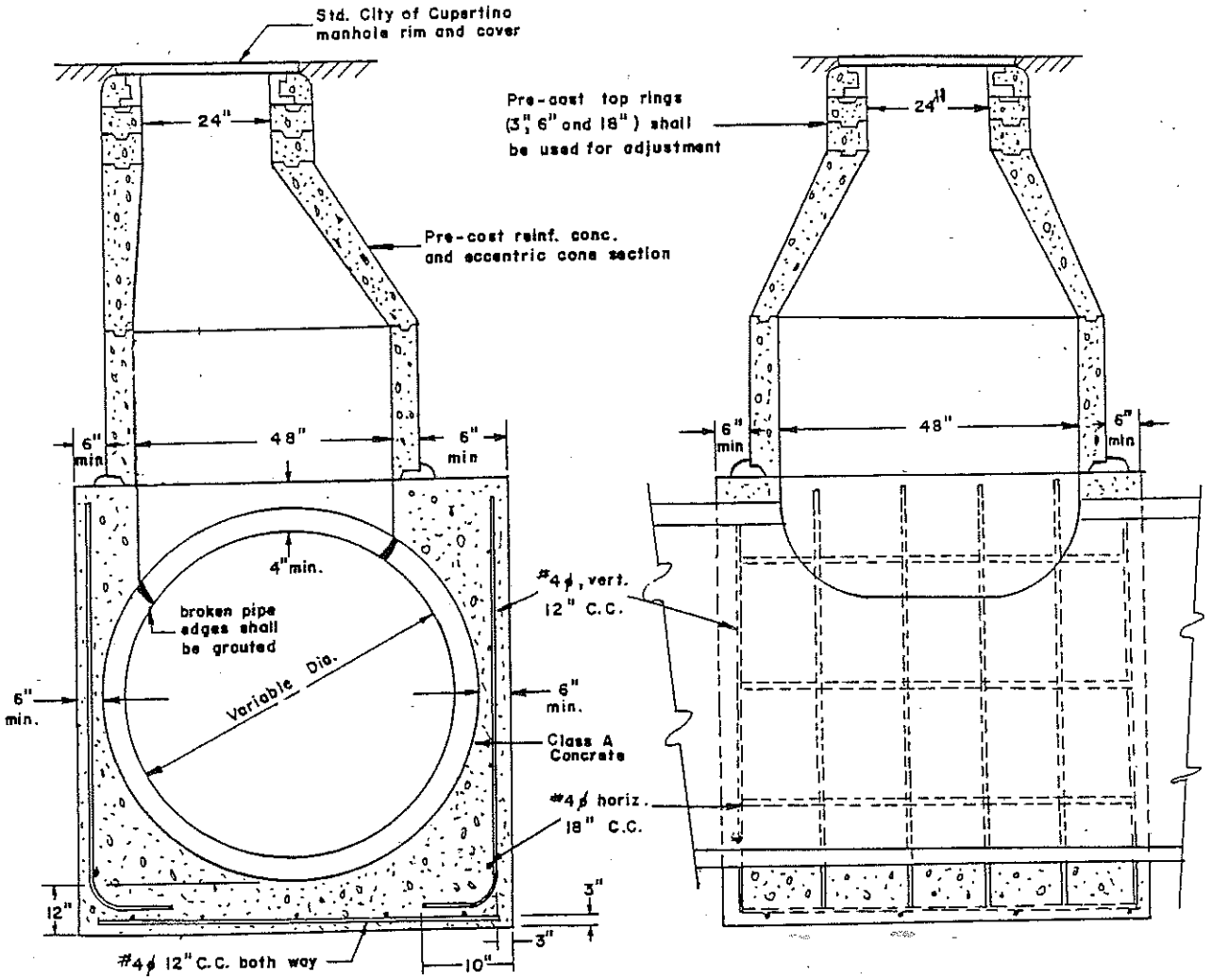
ECCENTRIC MANHOLE

8" to 33" PIPE

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY : CITY ENGINEER	DATE : 2/10/89	3-12

ECCENTRIC MANHOLE

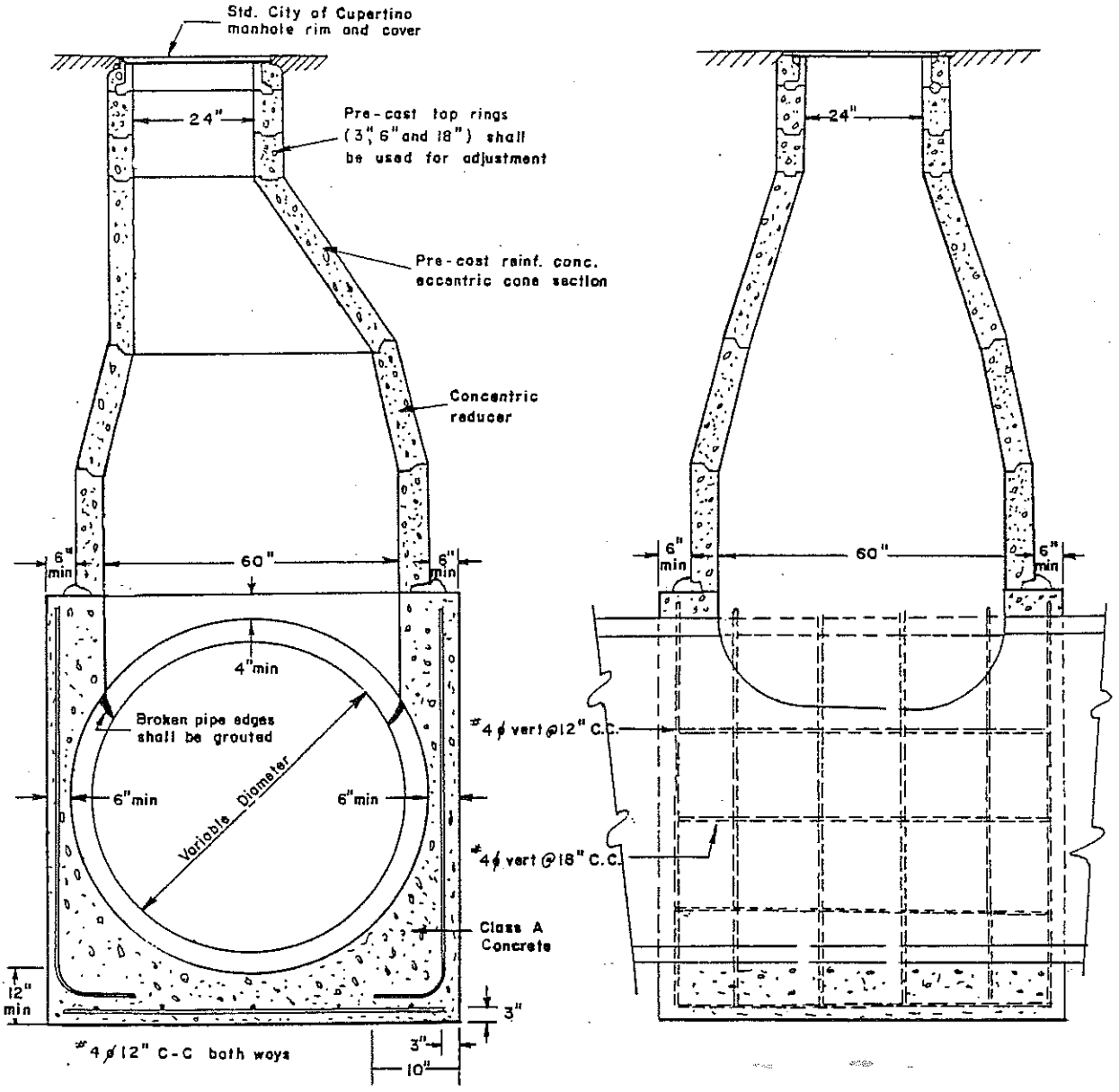
36"- 48" DIA. PIPE



END ELEVATION

SIDE ELEVATION

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ CITY ENGINEER DATE: 2/10/89	3-14



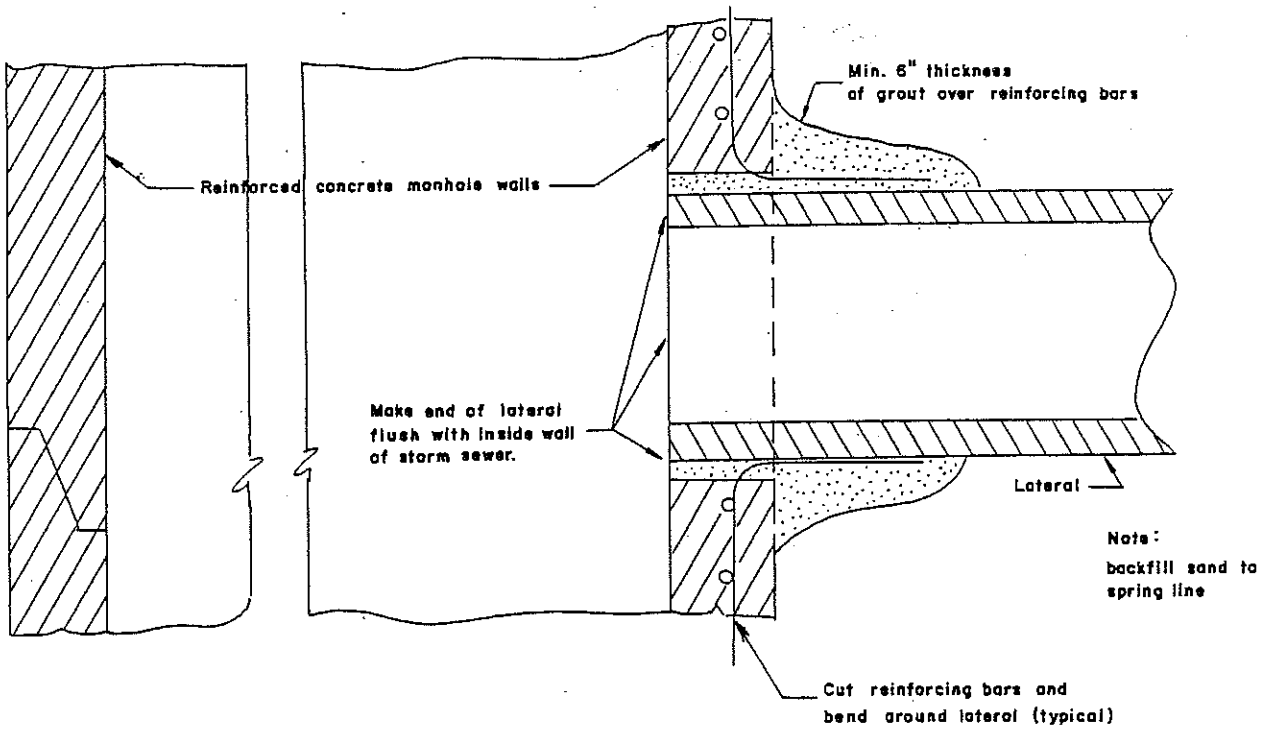
END VIEW

SIDE VIEW

ECCENTRIC MANHOLE

51" PIPE OR LARGER

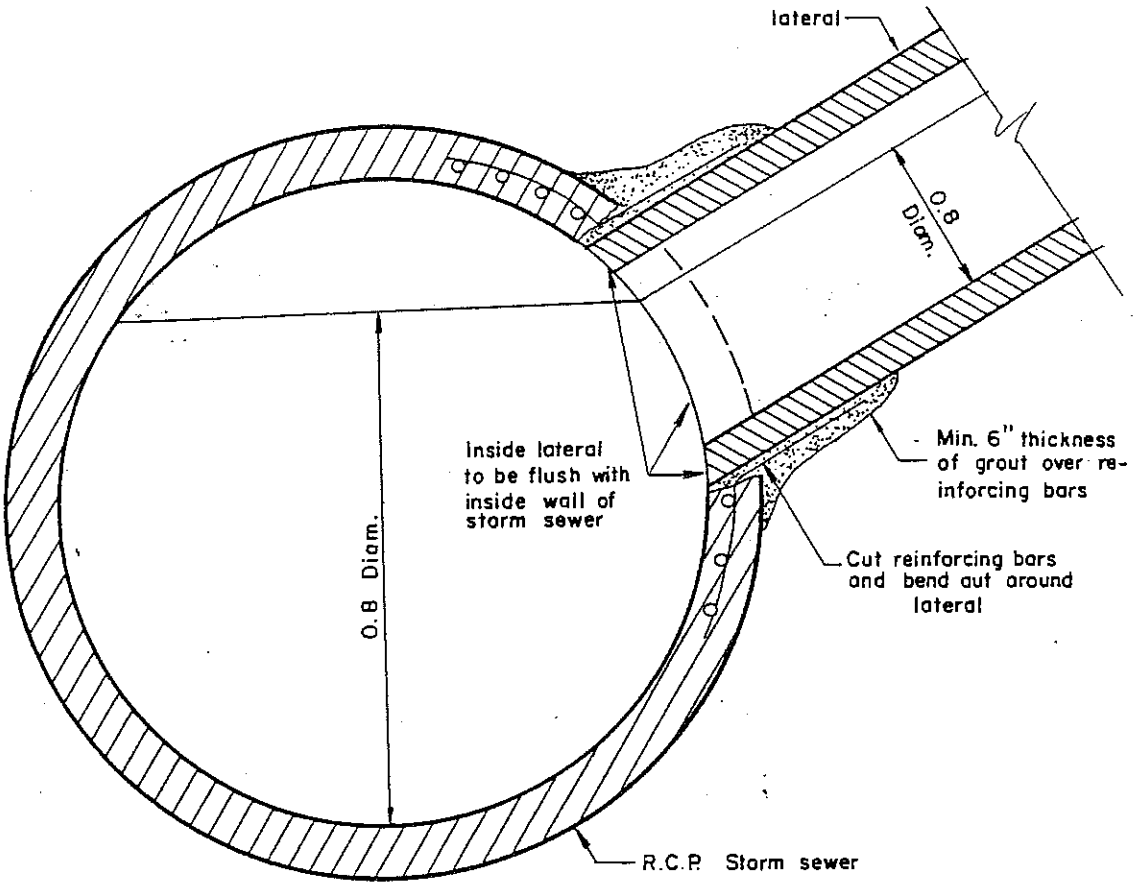
CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ CITY ENGINEER DATE: 2/10/89	3-16



STANDARD CONNECTION TO MANHOLE WALL

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ CITY ENGINEER DATE: 2/10/89	3-18

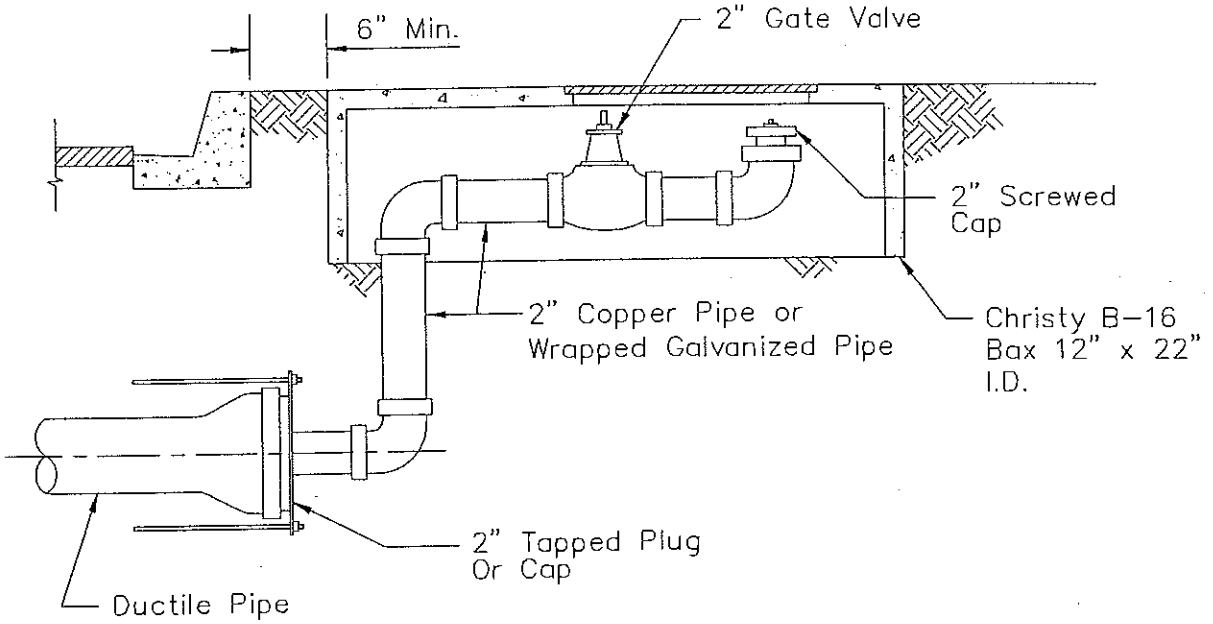
Note:
backfill sand to spring line.



NOTE: Subject to approval of City Engineer. Smaller pipe diameter shall not exceed 1/4 of the diameter of the larger pipe.

STANDARD CONNECTION TO REINFORCED CONCRETE PIPE - 48" R.C.P. and LARGER

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY [signature] CITY ENGINEER DATE: 2/10/84	3-20

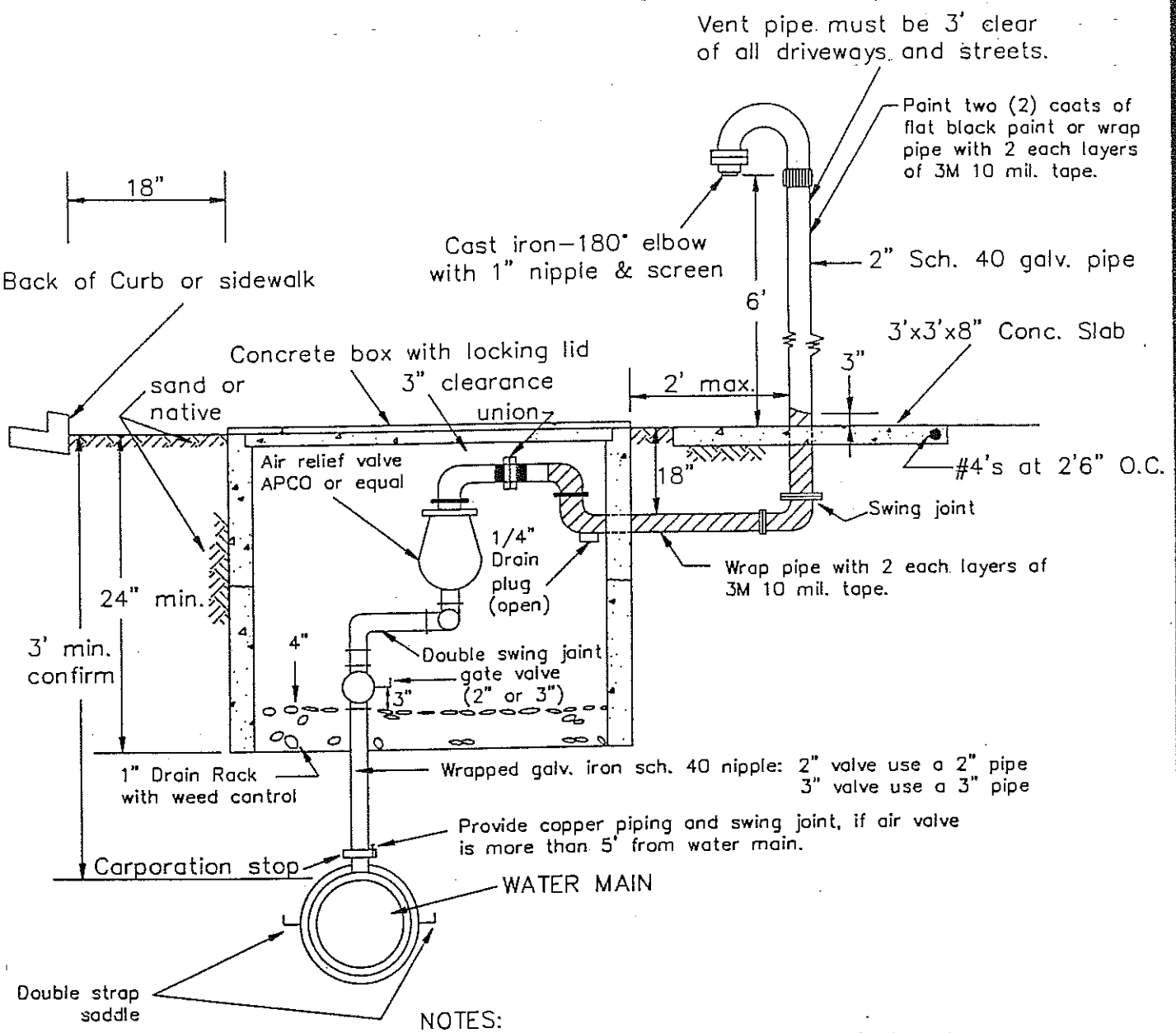


NOTE: All pipe connections to be flanged, tyton or mechanicol joints.

STANDARD BLOW-OFF FOR DEAD ENDS

REV 10/26/95

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ CITY ENGINEER DATE: 10/26/95	4-2



NOTES:

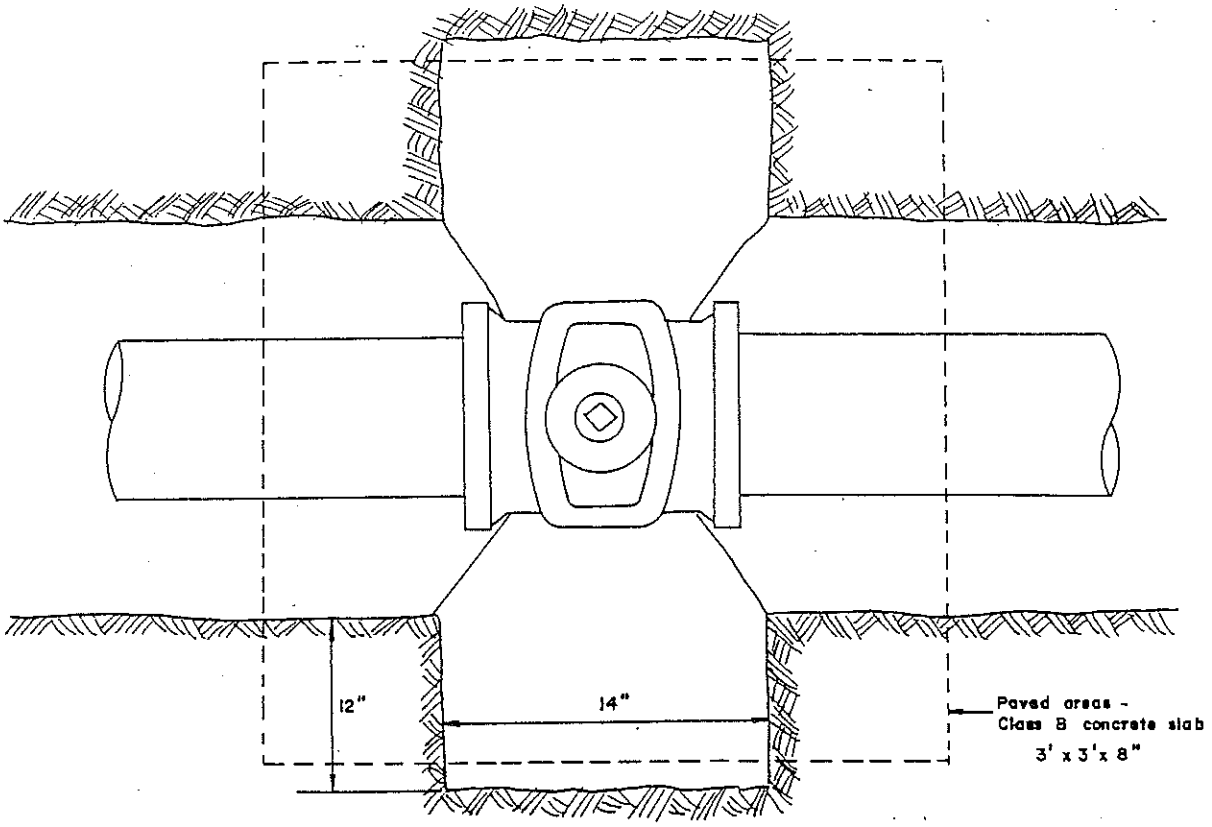
1. See project plans for size of air valve.
2. All work shall be inspected by the City of Cupertino Water Department (777–3271)
3. All back fill shall be compacted to 90% R.C.
4. No air valves shall be located in the street pavement areas.
5. All air valve installations shall be within the the City right of way or easements.
6. Mark lid "C.W.V."
7. Non slip surface shall be applied to the steel cover in the sidewalk areas.

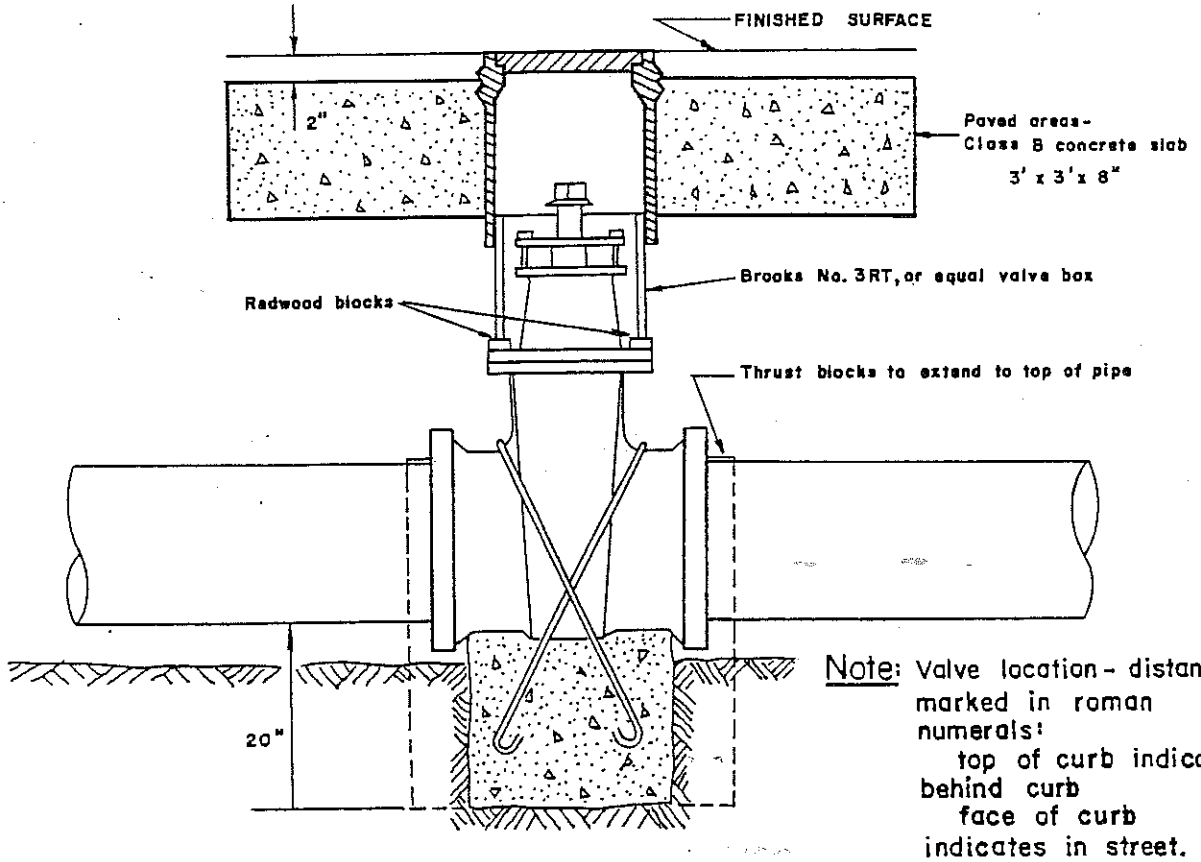
AIR RELIEF VALVE DETAIL

1" OR 3"

REV 7/12/94
REV 8/11/89

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ (CITY ENGINEER) DATE: 5/22/95	4-4

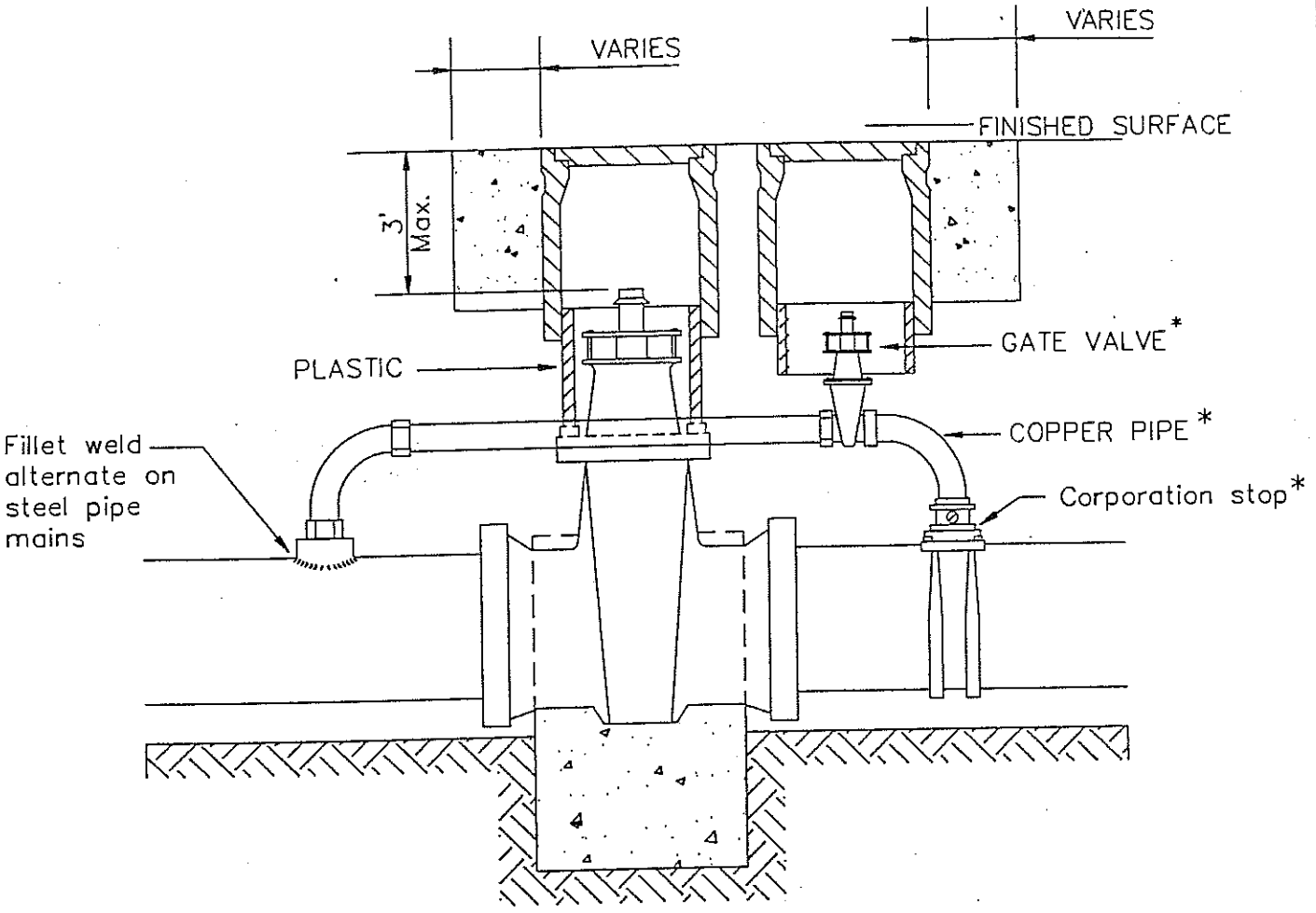




Note: Valve location - distance marked in roman numerals:
top of curb indicates behind curb
face of curb indicates in street.

STANDARD VALVE INSTALLATION

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ CITY ENGINEER	DATE: 2/10/89	4-6



*NOTE:
Use 2" fittings and pipe with 10" through 14" mains.

Use 4" fittings and pipe with 16" or larger mains.

BY-PASS AND VALVE ASSEMBLY

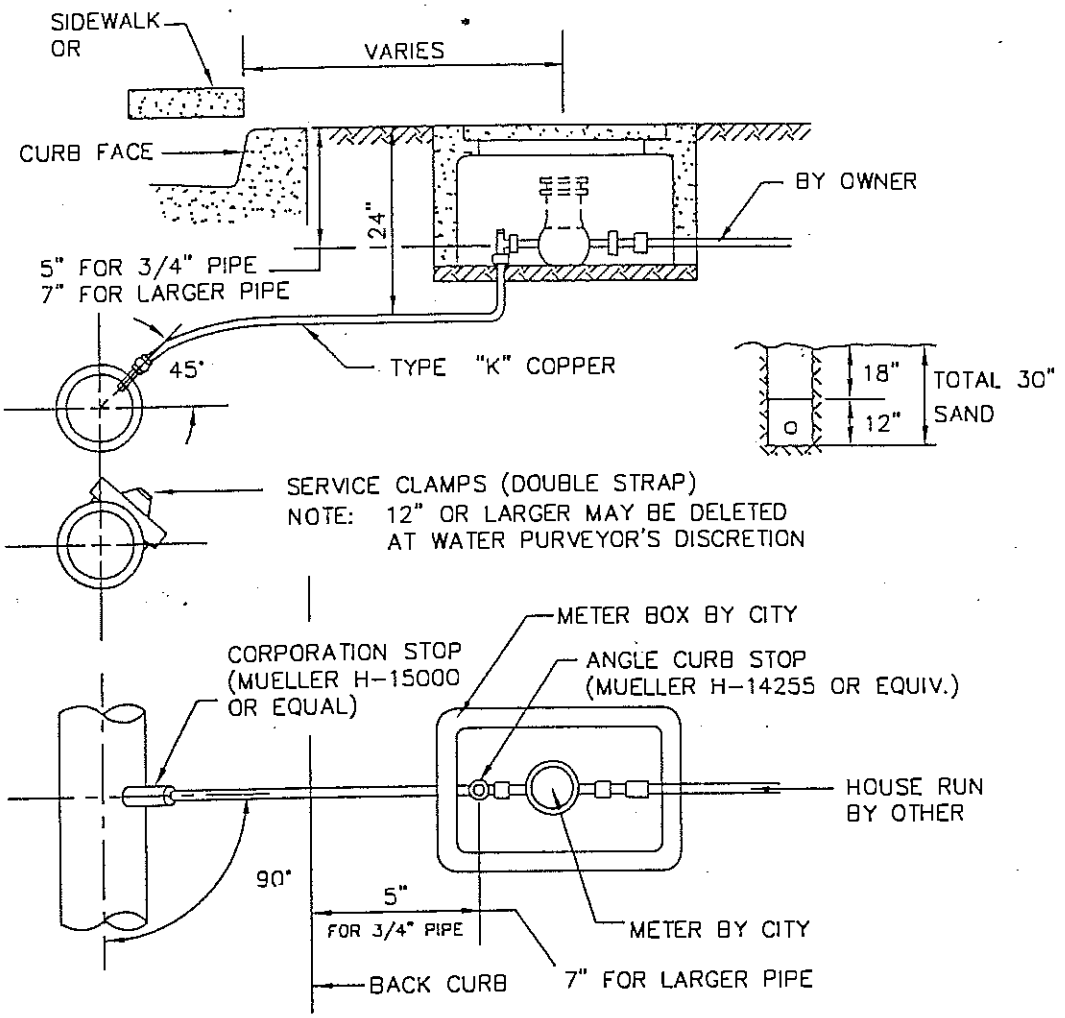
REV 7/12/94

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ CITY ENGINEER DATE: 5/30/95	4-8

PRESSURE ZONE REQUIREMENTS

	MIN. SIZE	COMMENT
LOW	1"	4
NORMAL	1" *	—
HIGH	1"	3
PUMP	1 1/2"	5

* ON LARGE LOTS OF 10,000 SQ. FT. OR GREATER 1 1/2" ø



NOTE:

1. BUILDING PERMIT MUST BE OBTAINED BEFORE OBTAINING A DOMESTIC WATER SERVICE.
2. THE OWNER WILL INSTALL ALL SERVICES ON ALL NON-SUBDIVISION WORK.
3. * HIGH-PRESSURE SYSTEMS (ZONE A) REQUIRE A PRESSURE REGULATOR ON THE OWNER'S SERVICE.
4. * LOW-PRESSURE SYSTEMS (ZONE B) REQUIRE A BACKFLOW PREVENTER ON THE OWNER'S SERVICE.
5. * PUMP SERVICES (ZONE B AND C) REQUIRE A BACKFLOW PREVENTER, STORAGE TANK, AND AN APPROVED PUMP ON THE OWNER'S SERVICE.
6. METER BOXES SHALL NOT BE IN THE SIDEWALK AREA.
7. ALL WORK MUST BE INSPECTED BY THE CITY OF CUPERTINO, PHONE 777-3271.
8. ALL SERVICES SHALL COMPLY WITH THE "REGULATIONS RELATING TO CROSS-CONNECTIONS." MITIGATION SHALL OCCUR THROUGH:
    1. DOUBLE-CHECK VALVE.
    2. AIR GAP SEPARATION.
    3. REDUCED PRESSURE PRINCIPAL BACKFLOW DEVICE, SEE 330.
9. ALL FIRE SERVICES SHALL HAVE A DETECTOR CHECK WITH METER.
10. NO DUAL SERVICES ARE ALLOWED WITHIN THE CITY OF CUPERTINO.
11. ALL WATER SERVICES OVER 550' ELEVATION REQUIRE CROSS-CONNECTION MITIGATION DEVICES.

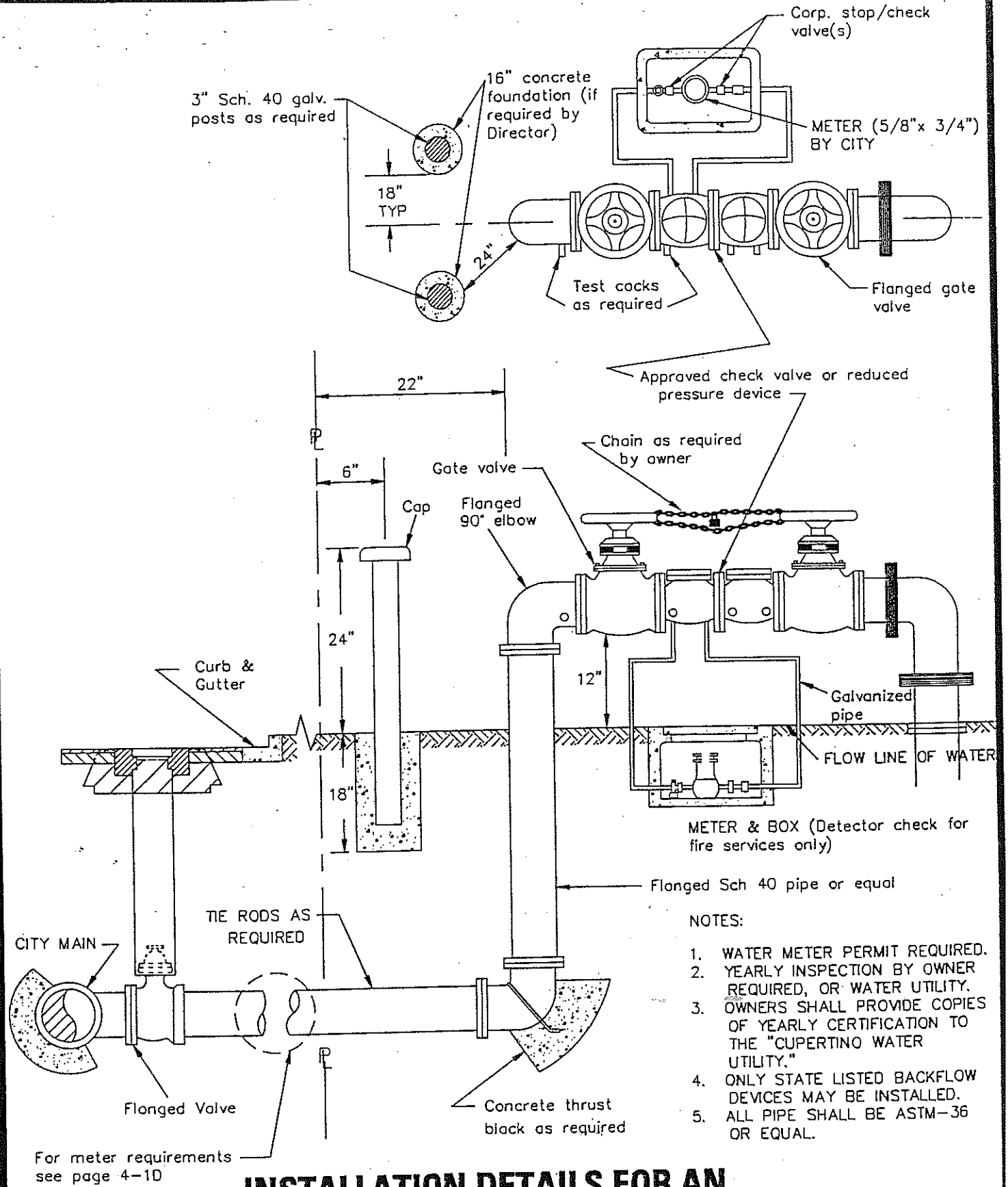
TYPICAL HOUSE SERVICE

REV 5/7/97
REV 7/12/94
REV 8/11/89

CITY OF CUPERTINO STANDARD DETAILS

APPROVED BY: _____ CITY ENGINEER DATE: 5/12/97

4-10



NOTES:

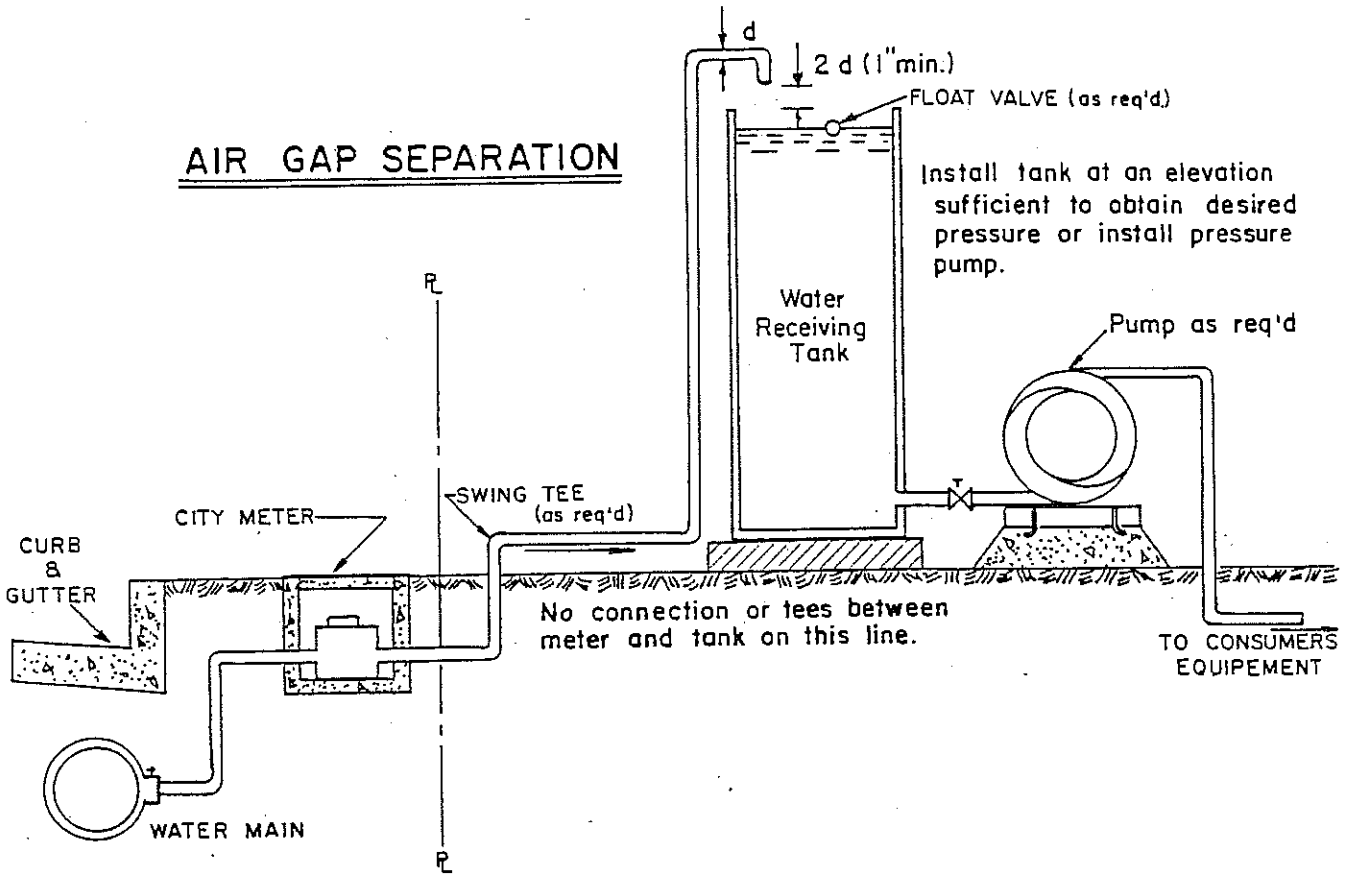
1. WATER METER PERMIT REQUIRED.
2. YEARLY INSPECTION BY OWNER REQUIRED, OR WATER UTILITY.
3. OWNERS SHALL PROVIDE COPIES OF YEARLY CERTIFICATION TO THE "CUPERTINO WATER UTILITY."
4. ONLY STATE LISTED BACKFLOW DEVICES MAY BE INSTALLED.
5. ALL PIPE SHALL BE ASTM-36 OR EQUAL.

INSTALLATION DETAILS FOR AN APPROVED BACKFLOW PREVENTION DEVICE AND FIRE SERVICE

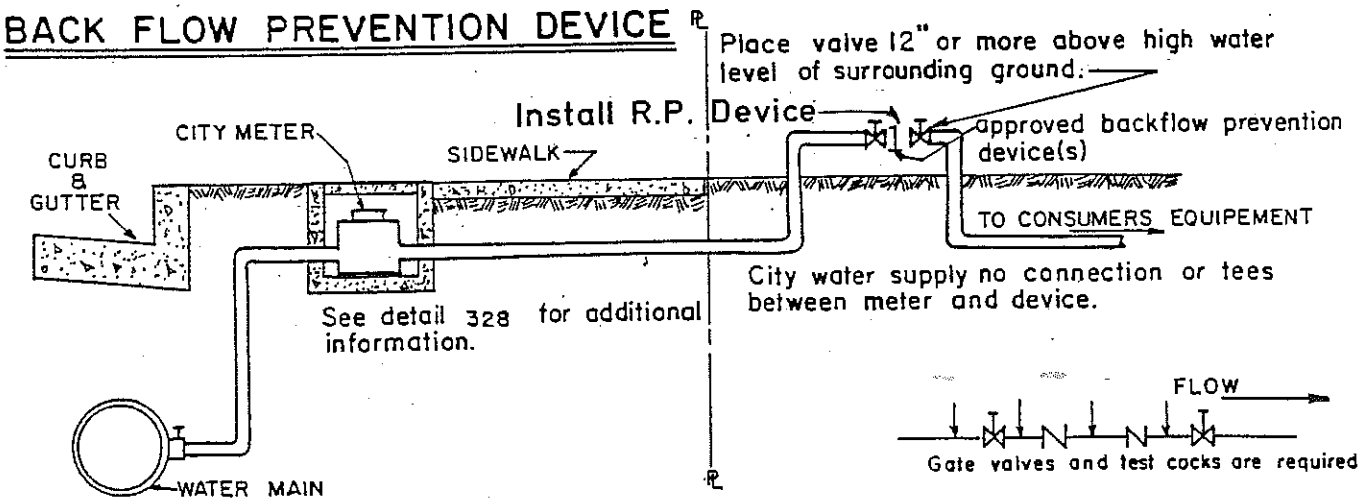
REV 7/12/95
REV 8/11/89

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ CITY ENGINEER DATE: 5/30/95	4-12

AIR GAP SEPARATION



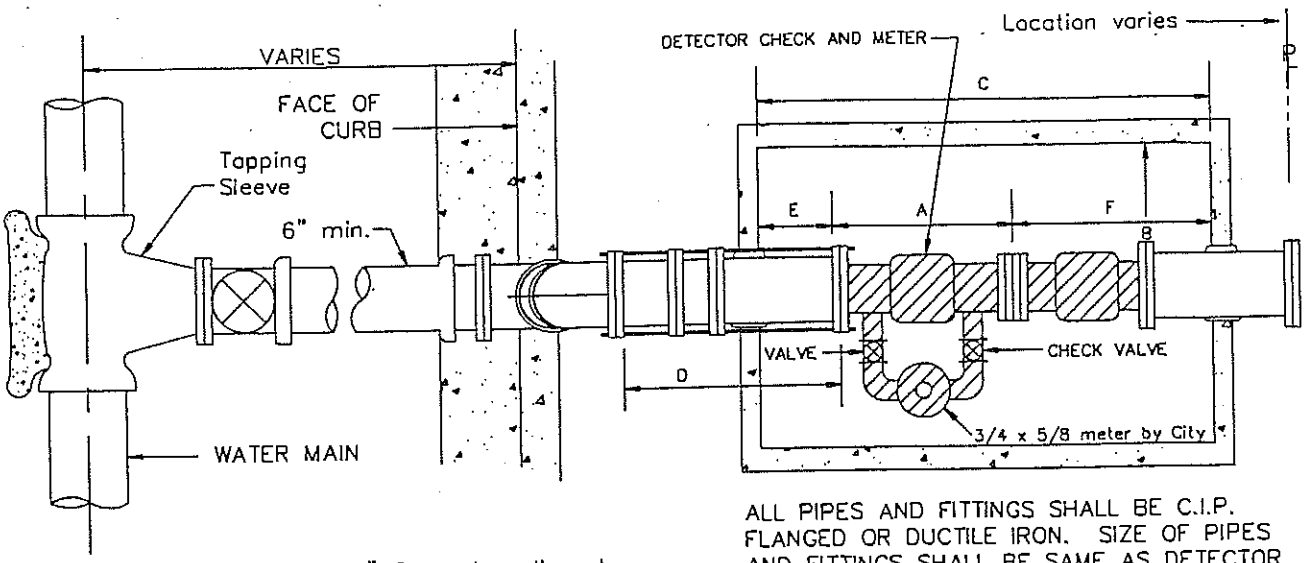
BACK FLOW PREVENTION DEVICE



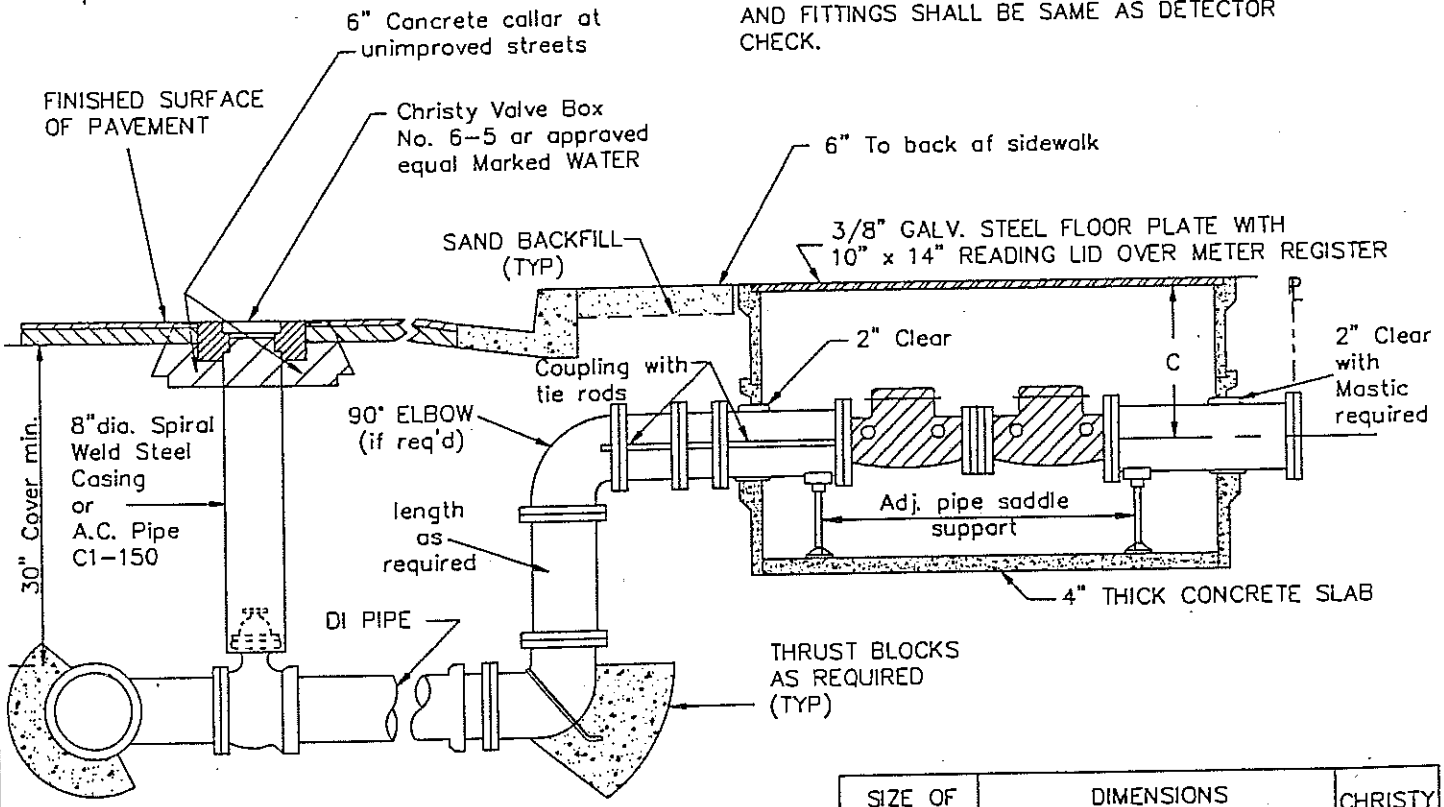
NOTE: THE AIR GAP SEPARATION OR THE MECHANICAL BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED SUBJECT TO THE APPROVAL OF THE DIRECTOR OF PUBLIC WORKS OR HIS REPRESENTATIVE. ANY DEVIATION FROM THE METHODS DESCRIBED ABOVE MUST RECEIVE WRITTEN APPROVAL.

REV 8/11/89

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: CITY ENGINEER	DATE: 2/10/89	4-14



ALL PIPES AND FITTINGS SHALL BE C.I.P. FLANGED OR DUCTILE IRON. SIZE OF PIPES AND FITTINGS SHALL BE SAME AS DETECTOR CHECK.



SIZE OF DETECTOR CHECK	DIMENSIONS						CHRISTY BOX NO.
	A	B	C	D	E	F	
4"	16.5"	18"	34"	18"	6"	22.5"	B-44
6"	22.5"	20"	40"	18"	6"	28.5"	B-44
8"	26.5"	21"	49"	18"	6"	32.5"	B-52
10"	36"	24"	57"	18"	6"	42"	B-52

NOTES:

A. Central Fire Dept. and Building Dept. to approve all fire sprinkler services prior to City work.

B. Vault to be installed 1" above top of curb and surrounding area.

C. Area 3' clear of vault to be clear of all landscaping.

D. Check valves must be UL approved.

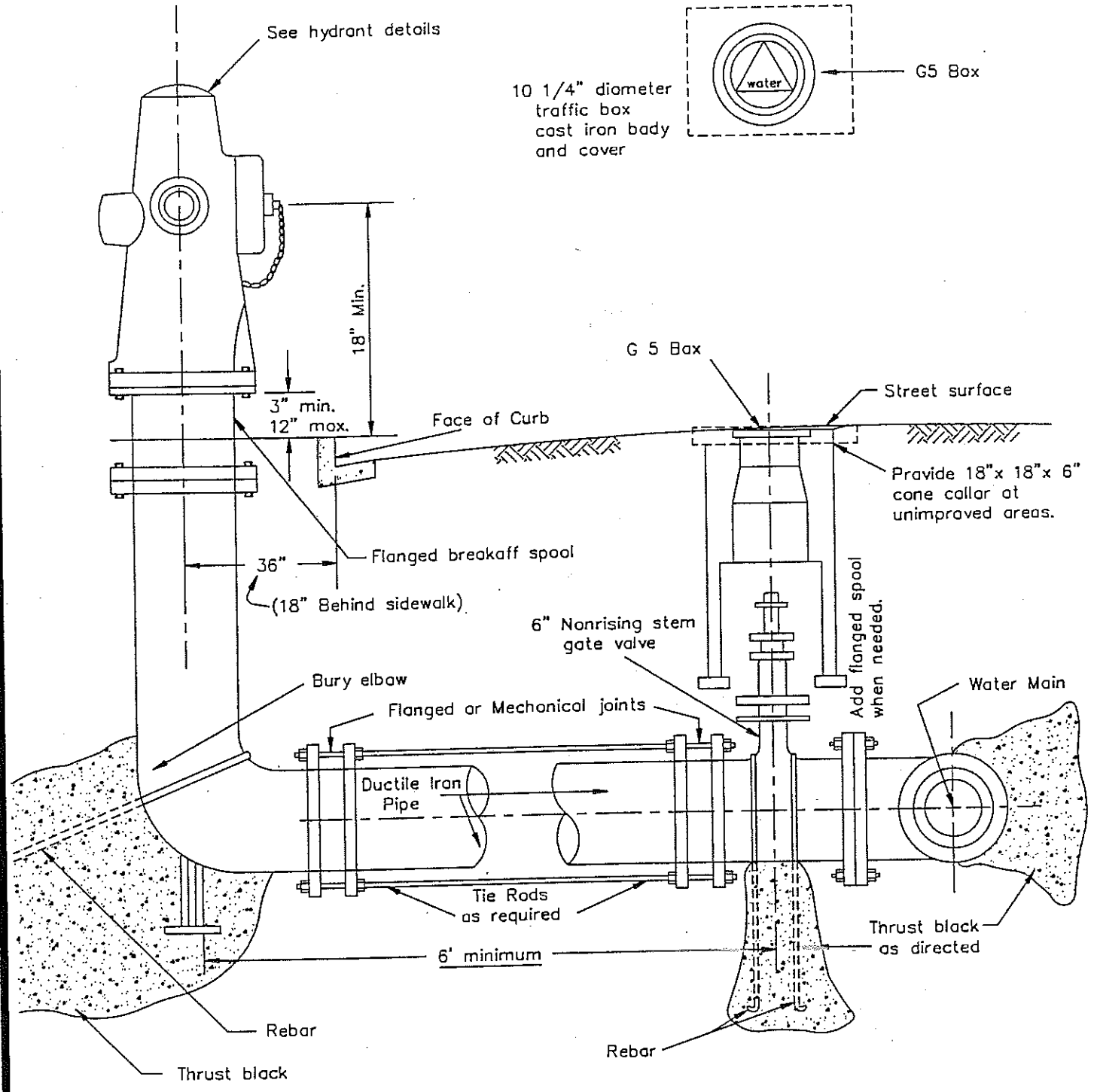
STANDARD DETAIL FOR FIRE SERVICES

TO BE USED ONLY WITH WATER PURVEYOR'S APPROVAL

REV 7/12/94
REV 1/2/90

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ CITY ENGINEER	DATE: 5/30/95	4-16

All landscaping and improvements to be kept 3' clear of hydrant



STANDARD FIRE HYDRANT

DETAILS AND SPECIFICATIONS

REV 7/12/94
REV 8/11/89

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ CITY ENGINEER DATE: 5/30/95	4-18

CITY OF CUPERTINO

THE CENTRAL FIRE PROTECTION DISTRICT SPECIFIES THAT ALL HYDRANTS INSTALLED WITHIN THE BOUNDARIES OF THE FIRE DISTRICT, IN AREAS SERVED BY CALIFORNIA WATER SERVICE COMPANY, THE CAMPBELL WATER COMPANY, THE CITY OF CUPERTINO WATER DEPARTMENT, OR ANY PUBLIC, MUTUAL OR ANY PUBLIC, MUTUAL OR PRIVATELY-OWNED WATER COMPANY, WHETHER INSTALLED BY THE DEVELOPER OR BY THE FIRE DISTRICT, SHALL BE ANY OF THE MODELS LISTED HEREIN BELOW:

MAKE	MODEL	TYPE	REMARKS
MUELLER	CENTURION	D/B	
CLOW	#76	W/B *	
CLOW	#860	W/B	
CLOW	#960	W/B	
LONG BEACH	#630	W/B	

ALL HYDRANTS TO BE STANDARD MODELS WITH ONE, FOUR-INCH (4") CALIFORNIA THREAD STEAMER CONNECTION AND TWO, TWO AND ONE-HALF (2 1/2") NATIONAL STANDARD THREAD HOSE OUTLETS.

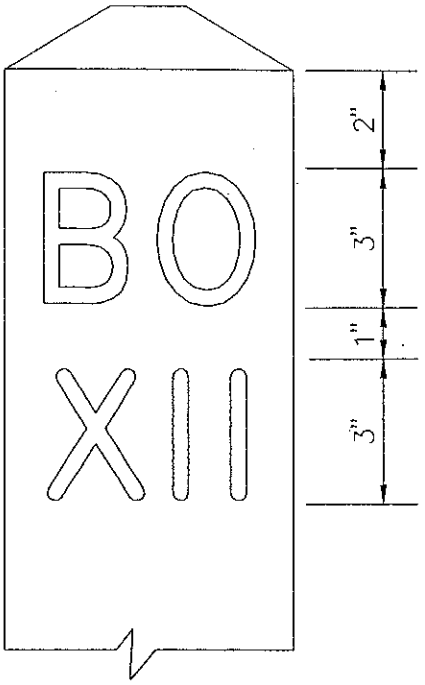
* W/B = WET BARREL
SEE 4-18 FOR ADDITIONAL INFORMATION

STANDARD FIRE HYDRANT DETAILS AND SPECIFICATIONS

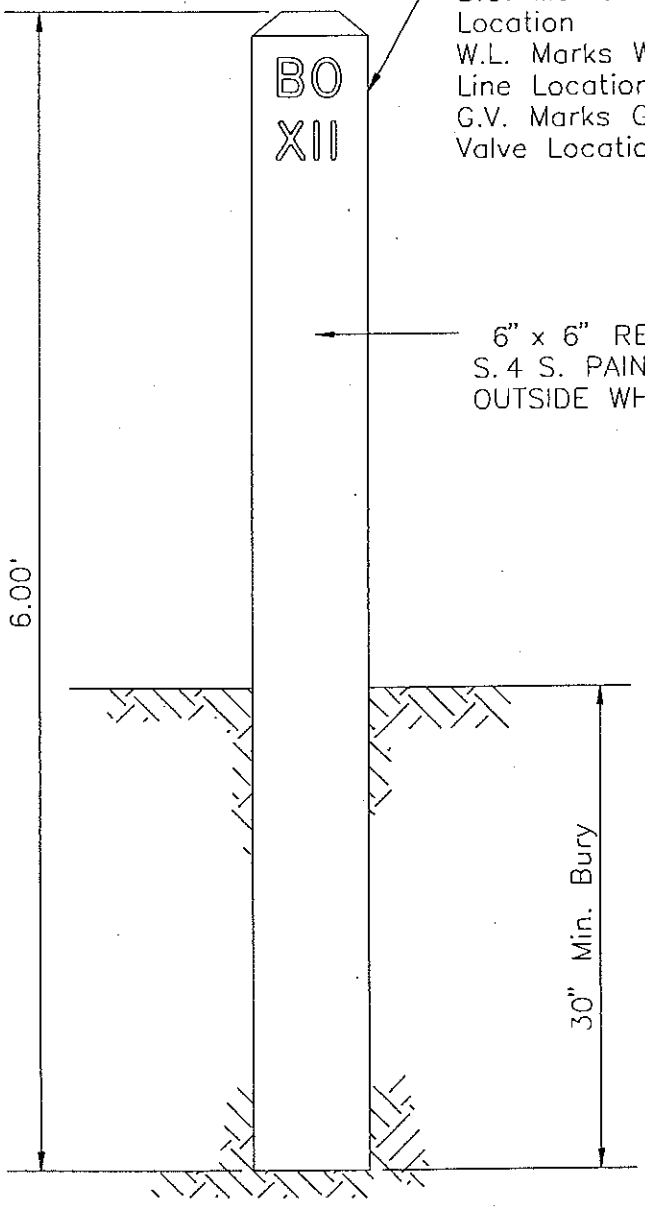
REV 7/12/94
REV 8/11/89

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ CITY ENGINEER DATE: 3/15/95	4-20

INCISED LETTERS & NUMERALS
3" HIGH, PAINTED RED



Scale: 1" = 4"

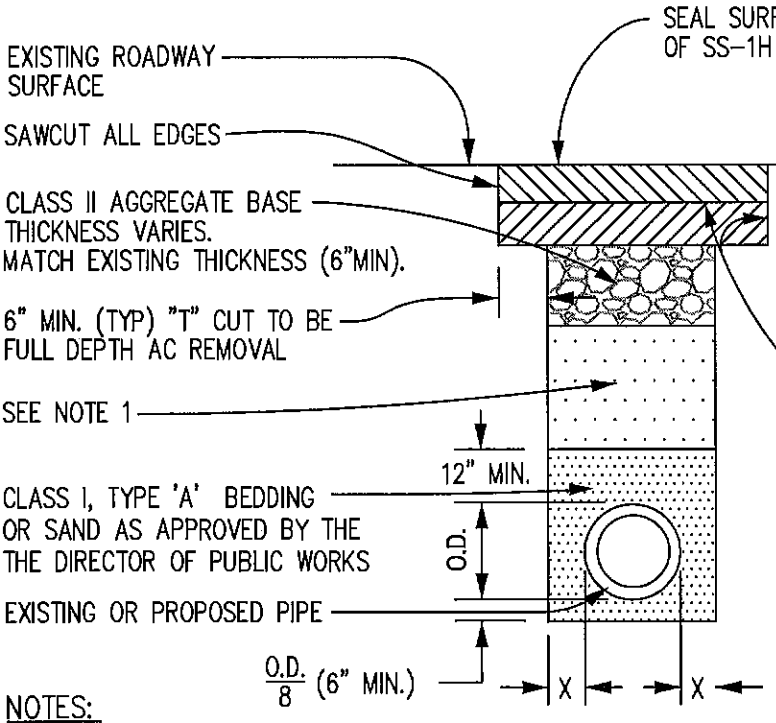


NOTE: All Roman Numerals will read from Left to Right or from Top to Bottom.

STANDARD 6" x 6" MARKER POST

REV 7/12/94

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ CITY ENGINEER DATE: 3/15/95	4-22



PIPE SIZE	LIMITS OF X	
	MINIMUM	MAXIMUM
24" OR LESS	4"	4" + O.D./4
27" AND GREATER	6"	6" + O.D./4

NOTES:

1) TRENCH BACKFILL:

CLASS II OR CLASS III AGGREGATE BASE AT 95% COMPACTION, OR CONTROLLED DENSITY BACKFILL, SHALL BE USED FOR TRENCH BACKFILL.

NATIVE MATERIALS MAY BE USED AS BACKFILL ONLY WITH WRITTEN CONSENT FROM THE DIRECTOR OF PUBLIC WORKS. NATIVE BACKFILL COMPACTION SHALL BE 90% FROM THE BOTTOM OF TRENCH TO 2.5' BELOW SUBGRADE; 95% WITHIN 2.5' OF SUBGRADE. RELATIVE COMPACTION PER ASTM D1557, D2922, D2216 AND 03017. CONTRACTOR SHALL VERIFY SUITABILITY OF NATIVE BACKFILL PRIOR TO BEGINNING CONSTRUCTION.

2) IF EDGE OF TRENCH IS 3' OR LESS FROM THE LIP OF GUTTER, THE CONTRACTOR SHALL REPAVE TO THE LIP OF GUTTER.

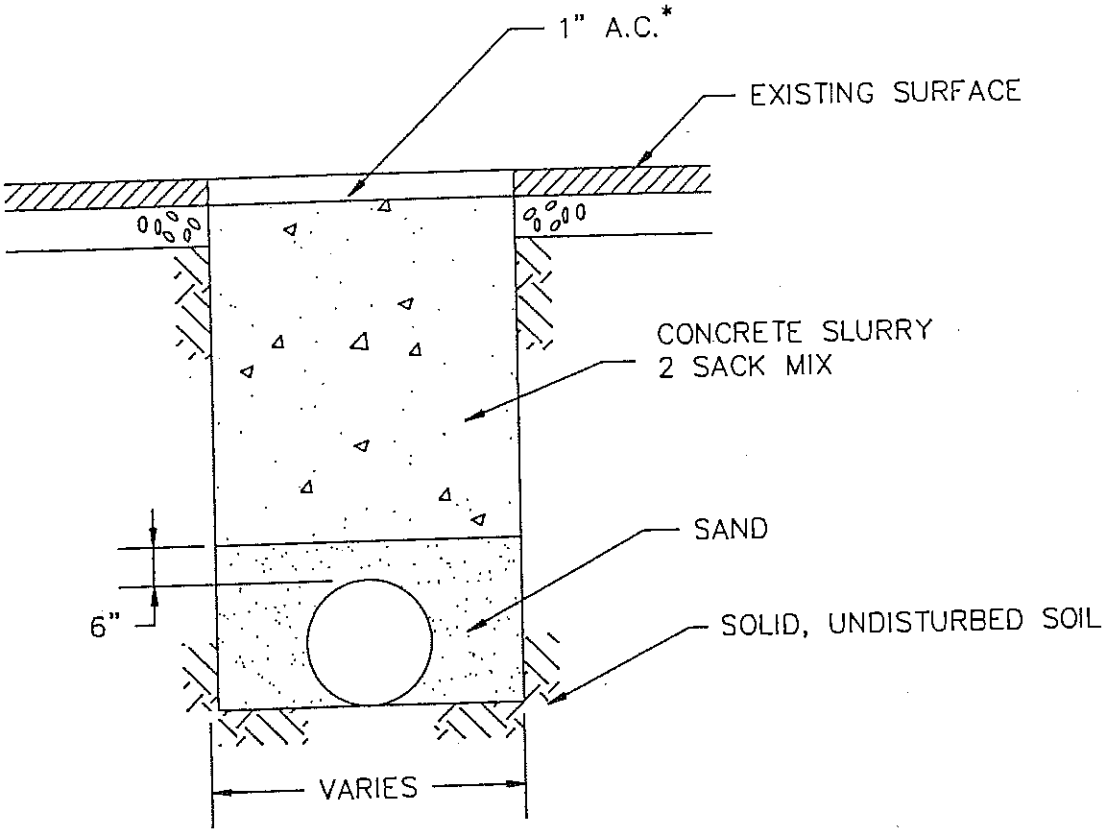
3) NEW ASPHALT THICKNESS SHALL MATCH EXISTING ASPHALT THICKNESS (3" MINIMUM TOTAL THICKNESS IS REQUIRED).

EXISTING STREET TRENCH RESTORATION

TO BE USED FOR ALL PUBLIC STORM DRAIN PIPE

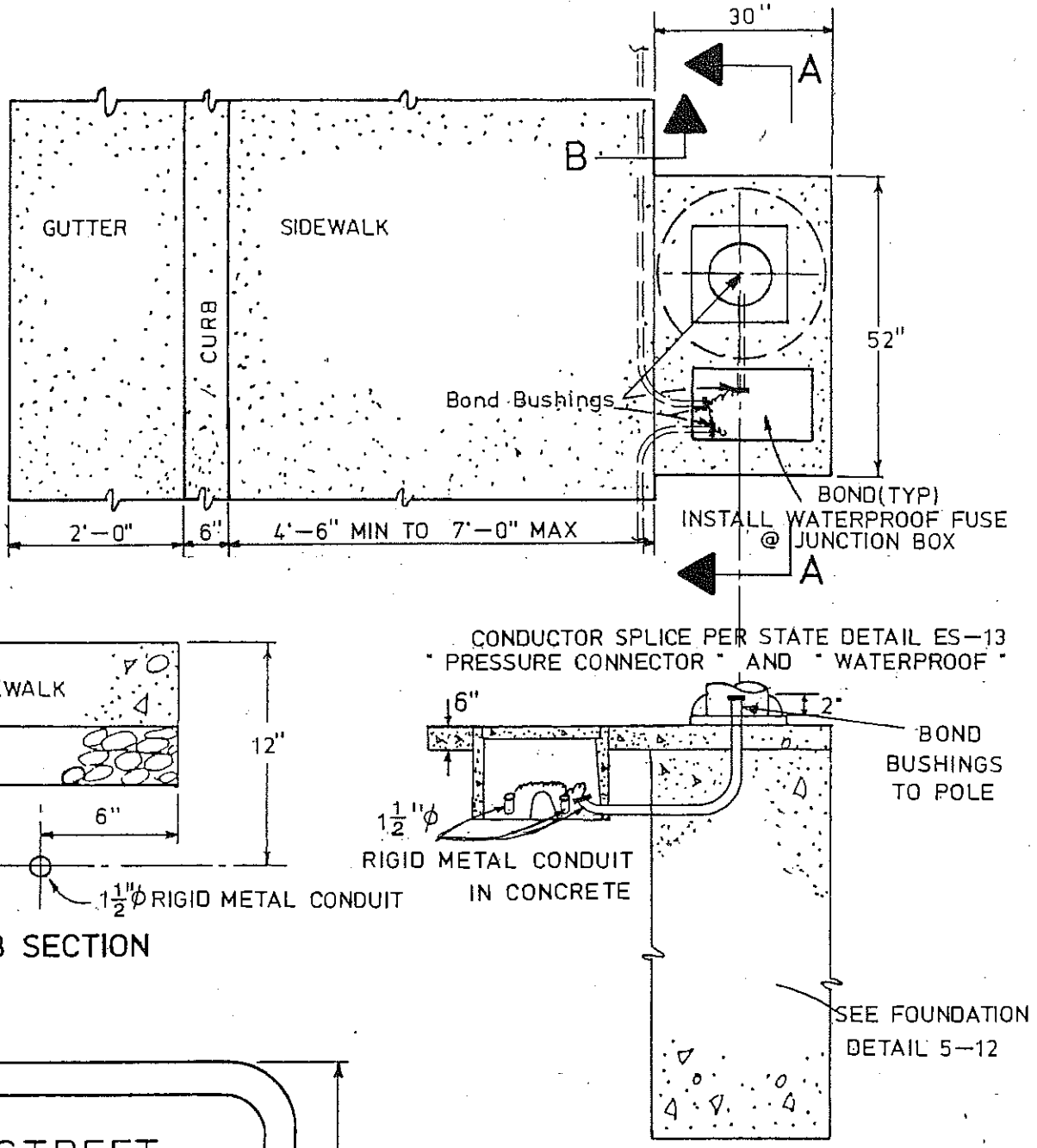
REV 8/5/15

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ CITY ENGINEER DATE: 8/5/15	4-24



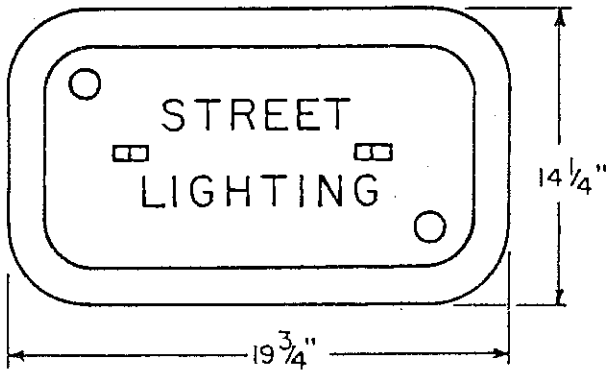
*IF STREET IS TO BE OVERLAYED WITHIN THE NEXT YEAR NO A.C. REQUIRED, JUST FILL UP TO PAVEMENT SURFACE WITH CONCRETE SLURRY.

ROCK WHEEL TRENCH



B SECTION

SECTION A-A



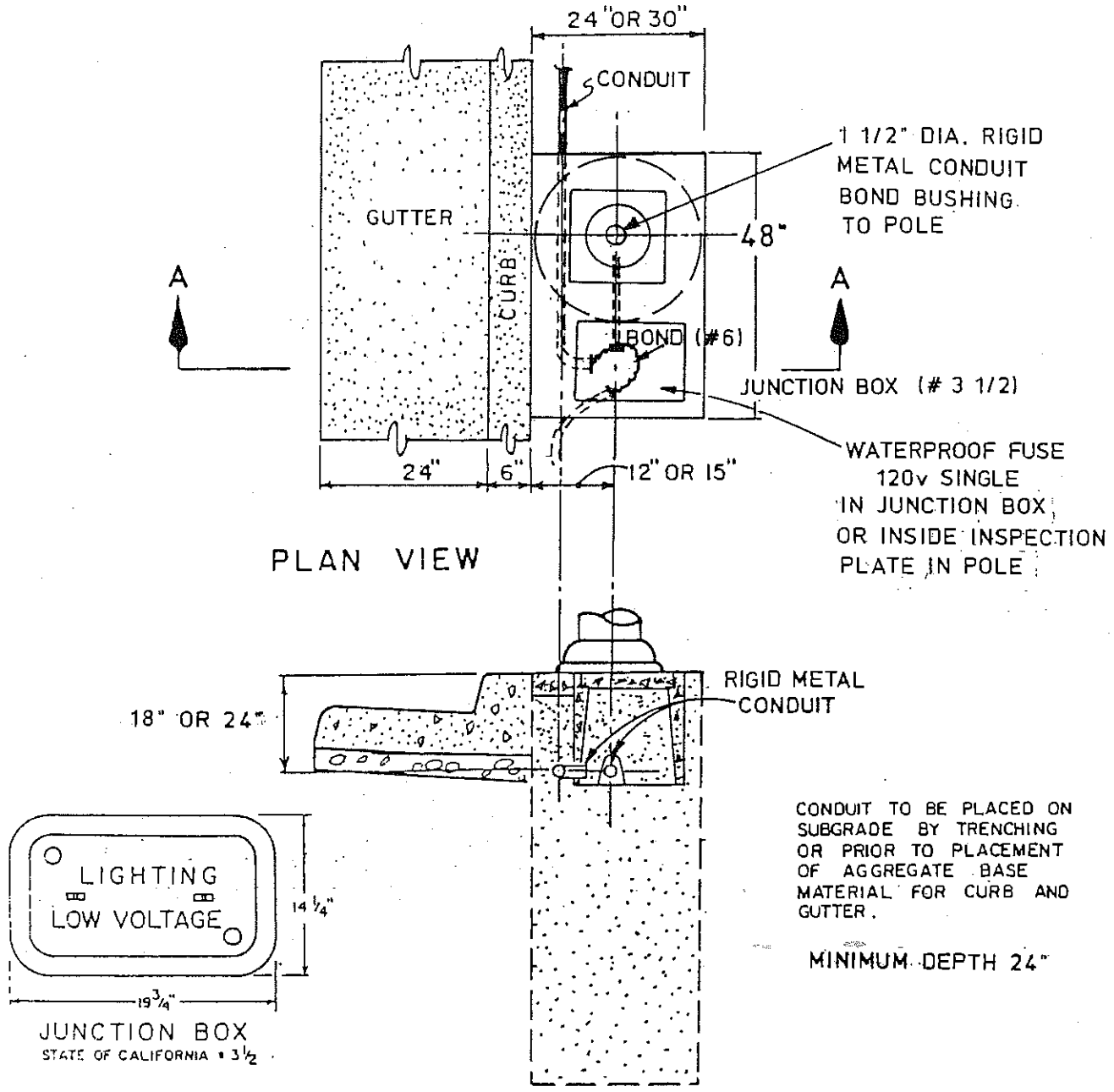
JUNCTION BOX
STATE OF CALIFORNIA #3½
CONCRETE

ELECTROLIER AND CONDUIT LOCATION

SEE LIGHTING NOTES FOR OTHER ADDITIONAL INFORMATION

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ CITY ENGINEER DATE: 2/10/89	5-2

REVISED 9/16/99

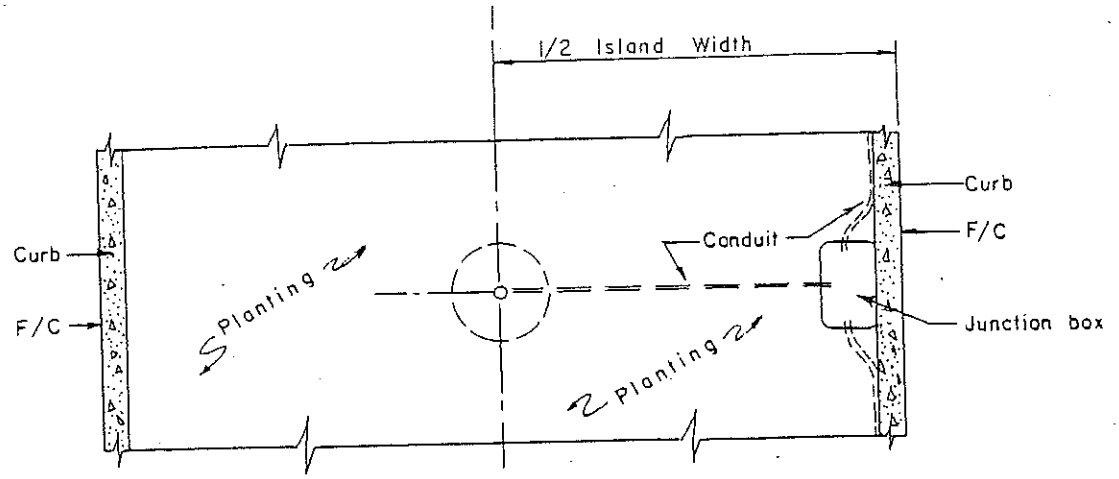


REVISED 9/16/99

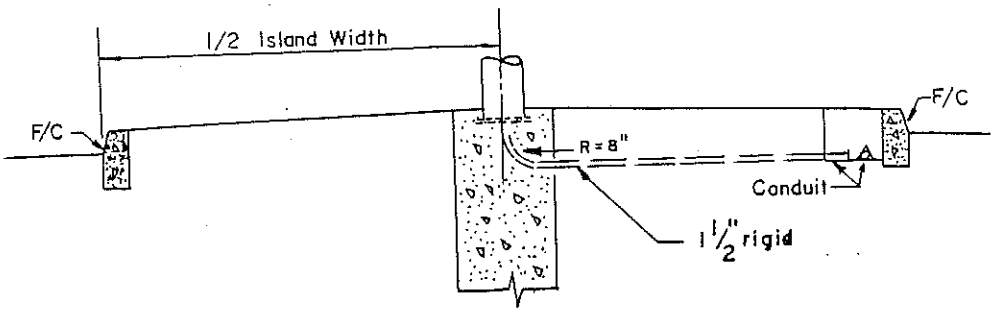
ELECTROLIER AND CONDUIT LOCATION

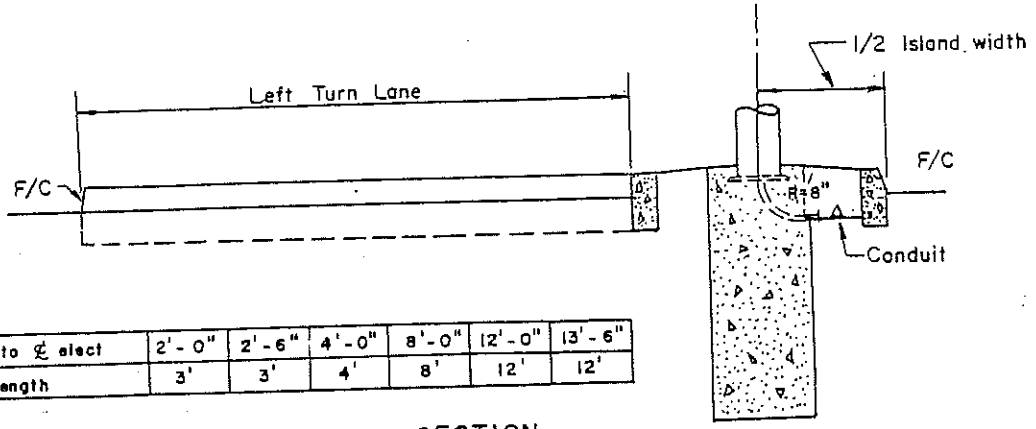
SEE LIGHTING NOTES FOR ADDITIONAL INFORMATION

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ CITY ENGINEER DATE: 2/10/84	5-4



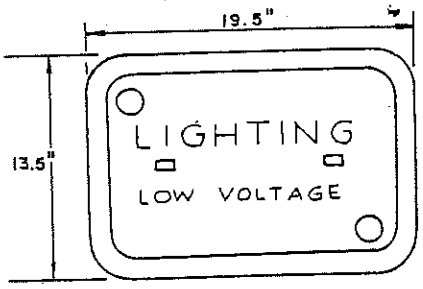
PLAN VIEW





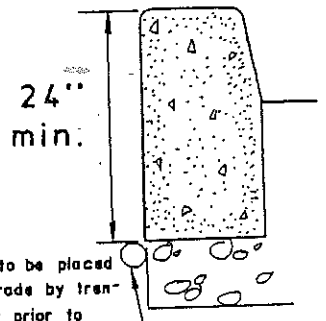
F.O.C. to ℄ elect	2'-0"	2'-6"	4'-0"	8'-0"	12'-0"	13'-6"
Arm Length	3'	3'	4'	8'	12'	12'

SECTION



JUNCTION BOX

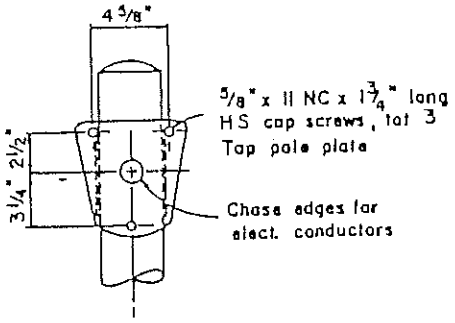
State of Calif. Standard #3½

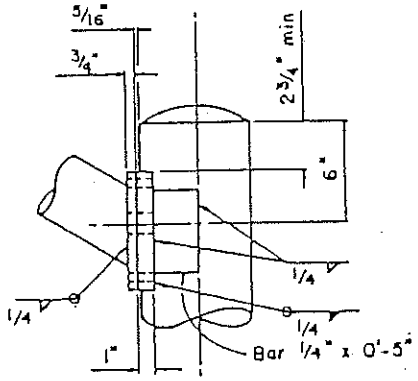


ELECTROLIER AND CONDUIT LOCATION IN MEDIAN ISLANDS

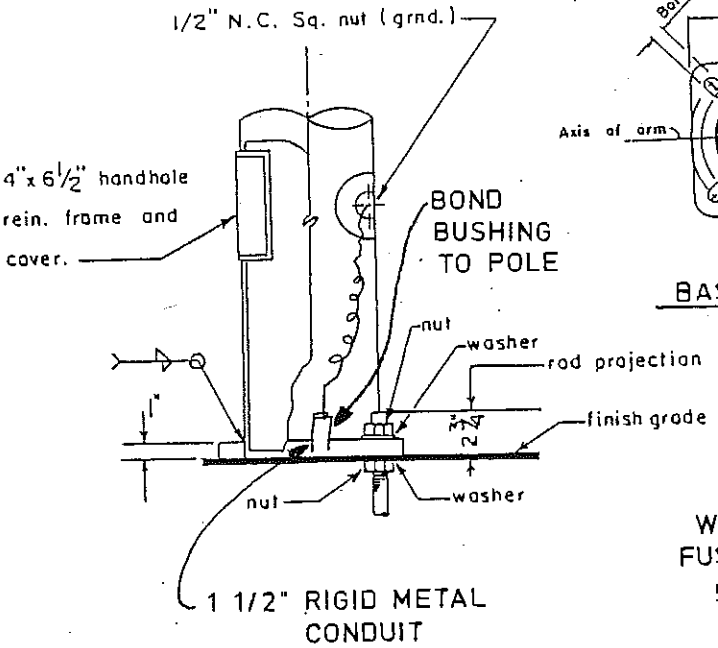
CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: CITY ENGINEER	DATE: 2/10/89	5-6

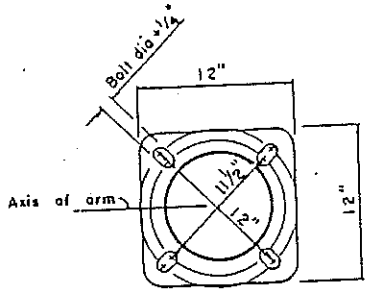
REVISED 9/16/99



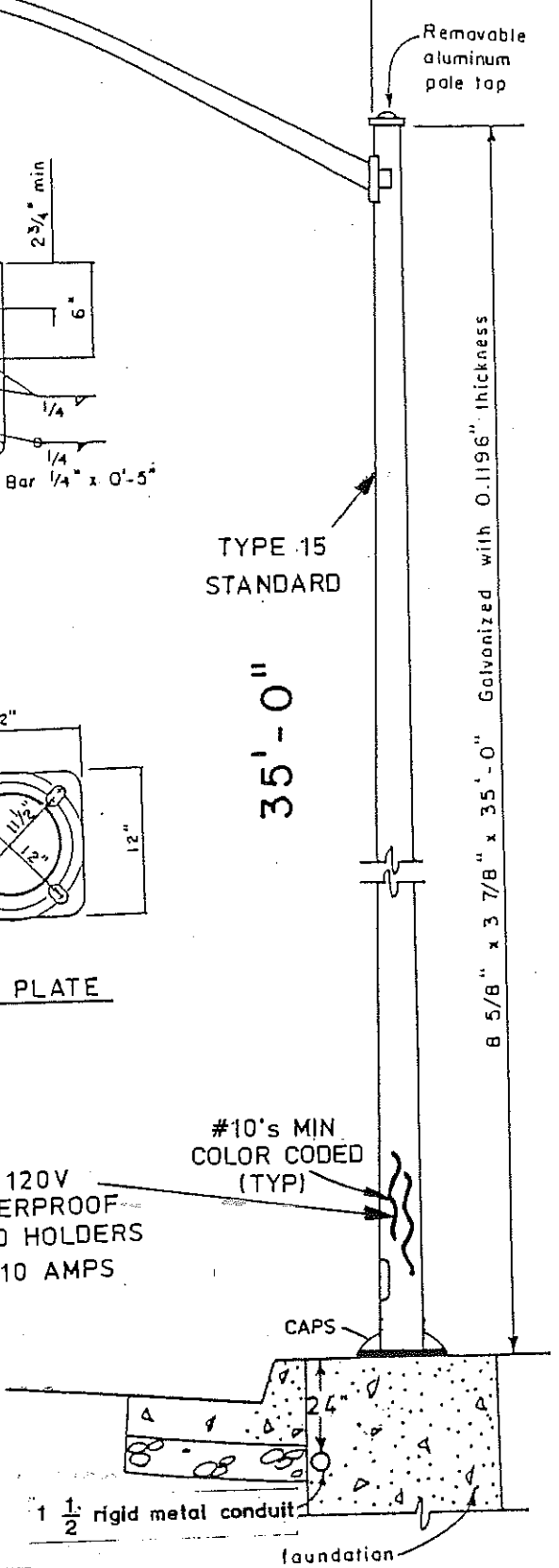


ARM ATTACHMENT DETAIL





BASE PLATE

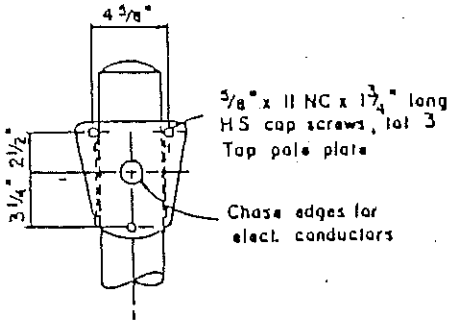


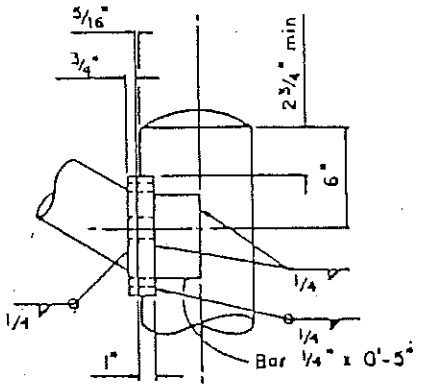
35' ELECTROLIER STANDARD

SEE LIGHTING NOTES FOR ADDITIONAL INFORMATION
SEE PLANS FOR APPLICATION

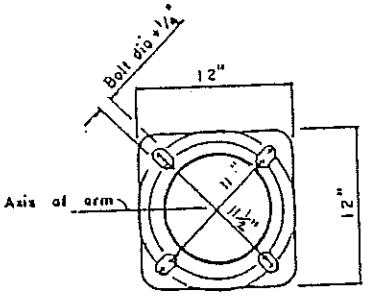
CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: CITY ENGINEER	DATE: 2/10/89	5—8

REVISED 9/16/99

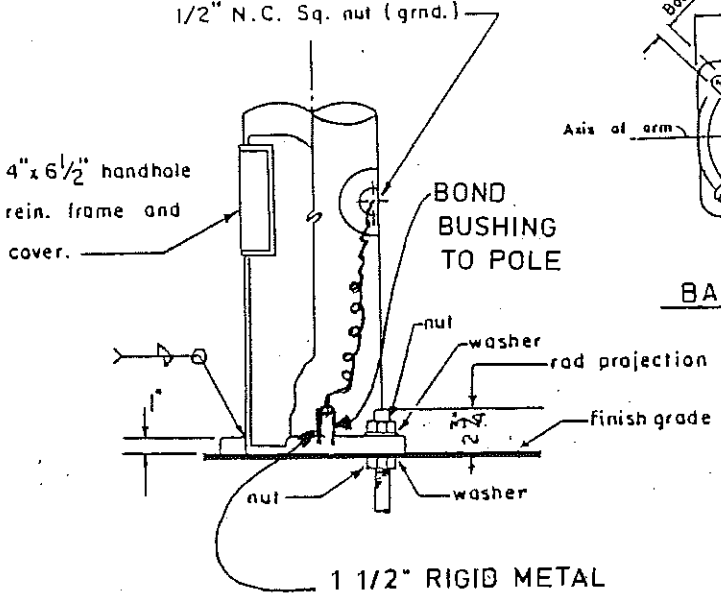


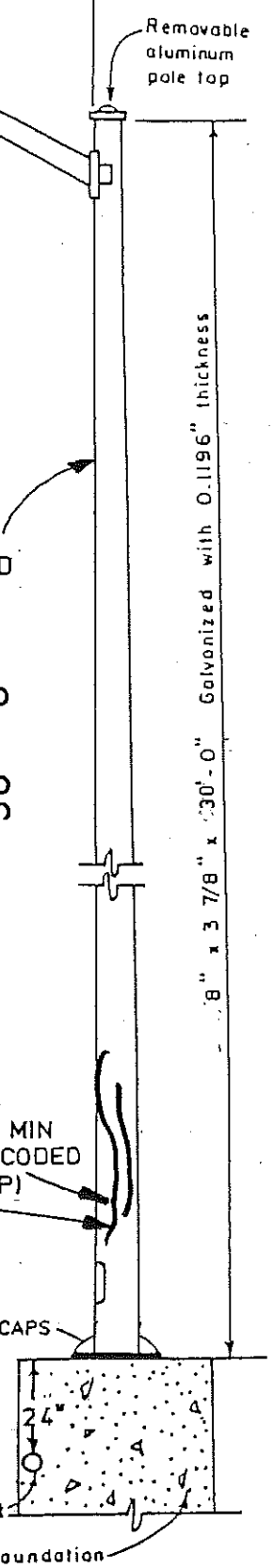


ARM ATTACHMENT DETAIL



BASE PLATE



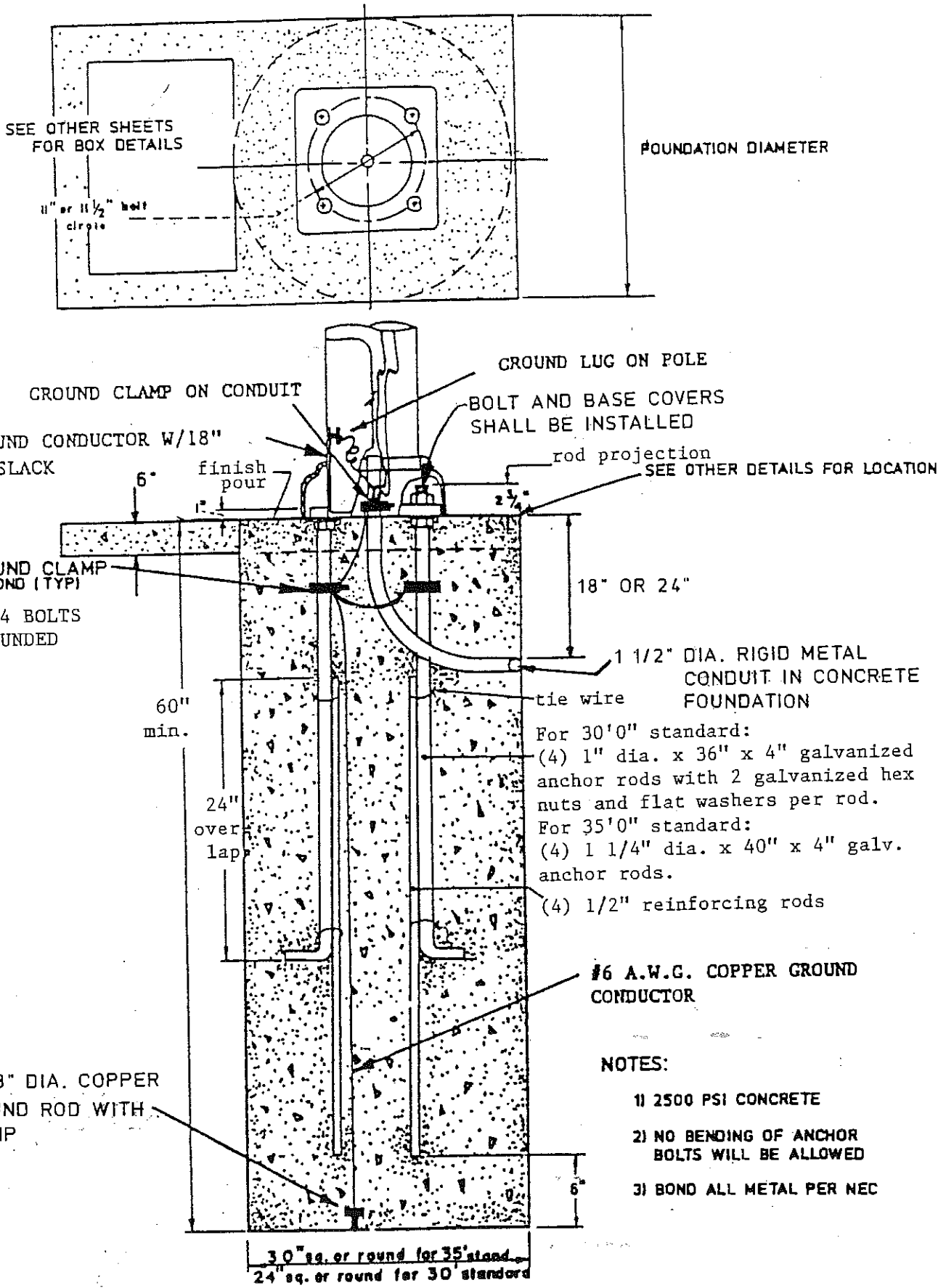


30' ELECTROLIER STANDARD

SEE LIGHTING NOTES FOR ADDITIONAL INFORMATION
STANDARD POLE HEIGHT, unless otherwise noted

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: CITY ENGINEER	DATE: 2/19/99	5—10

REVISED 9/16/99



ELECTROLIER FOUNDATION

NOTES:

1) 2500 PSI CONCRETE

2) NO BENDING OF ANCHOR BOLTS WILL BE ALLOWED

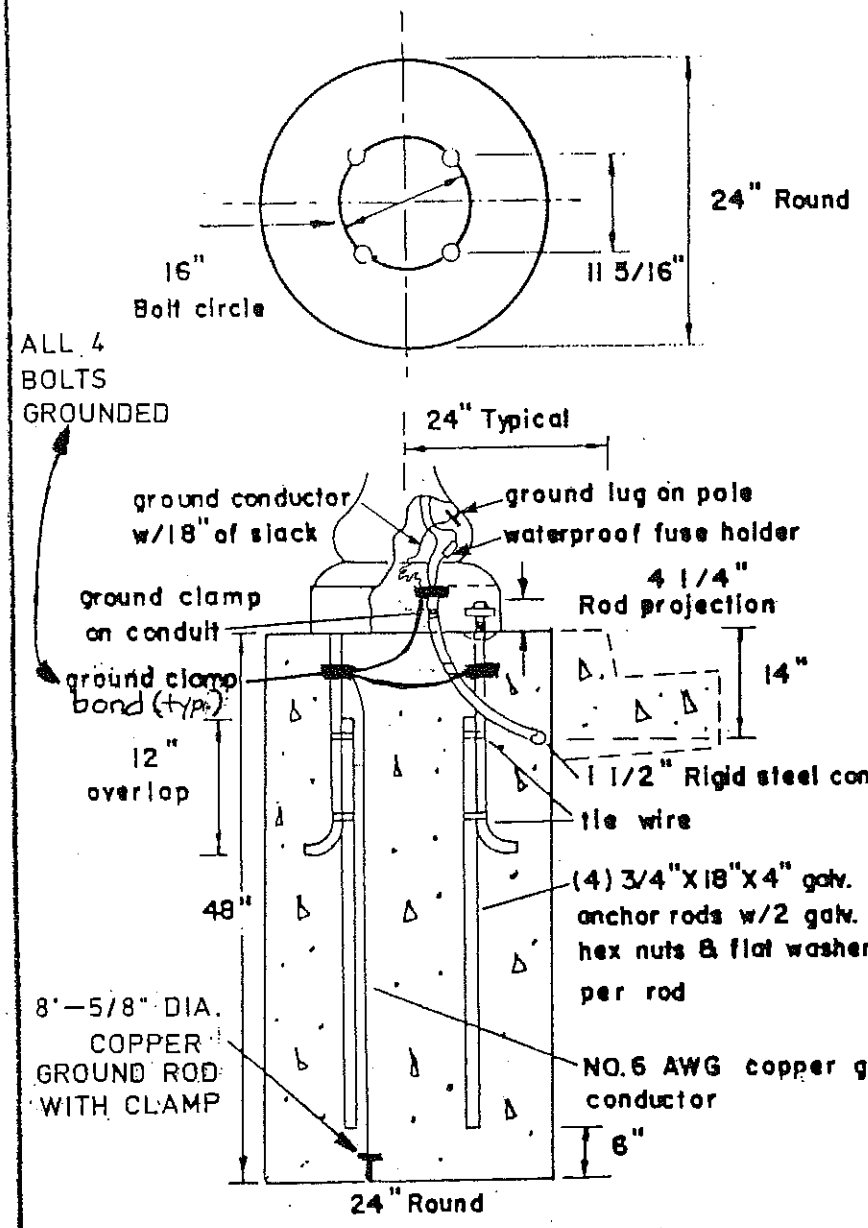
3) BOND ALL METAL PER NEC

REVISED 9/16/99

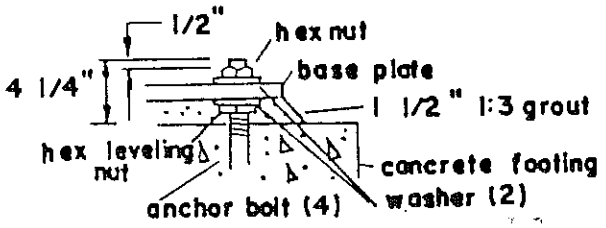
CITY OF CUPERTINO STANDARD DETAILS

APPROVED BY: _____ CITY ENGINEER DATE: 5/22/90

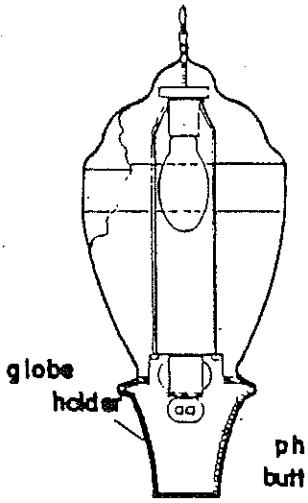
5—12



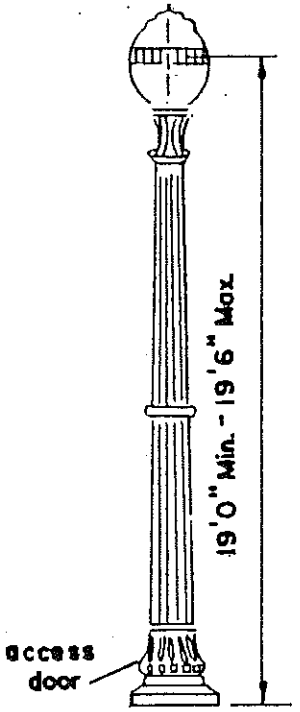
Electroller Foundation



Base Plate & Anchor Bolt



Switch (PEC)



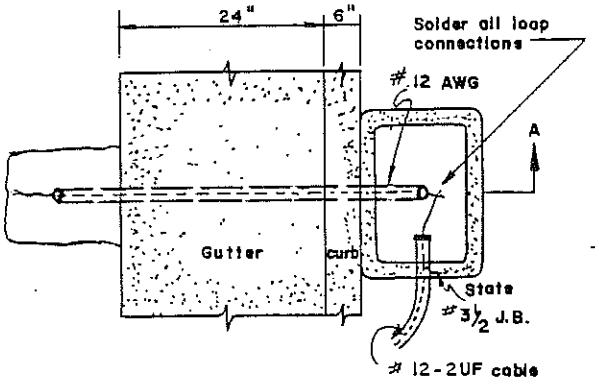
Elevation

TRADITIONAL ELECTROLIER

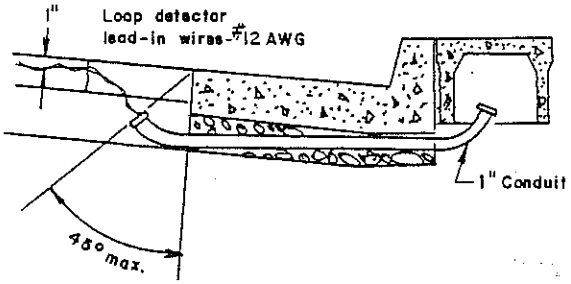
CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: CITY ENGINEER	DATE: 2/10/89	5—14

REVISED 9/16/99

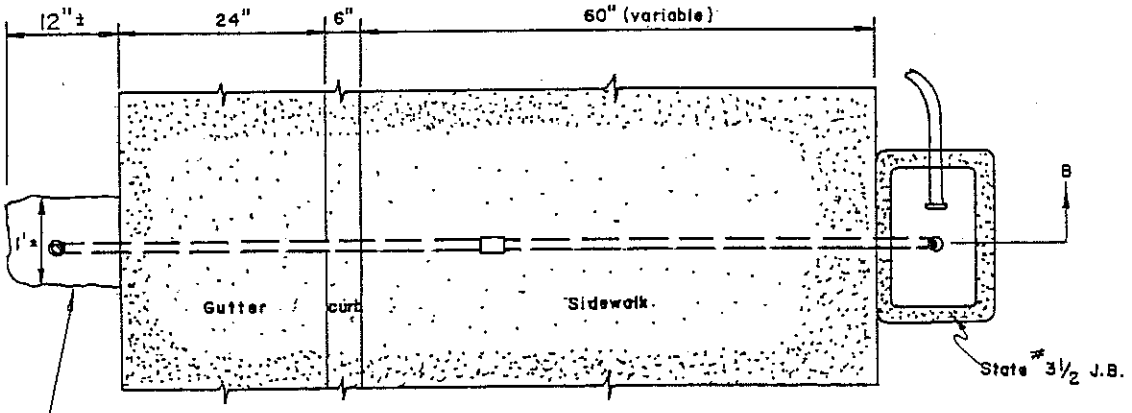
CONDUIT DETAIL LOOP DETECTOR LEAD-IN WIRES



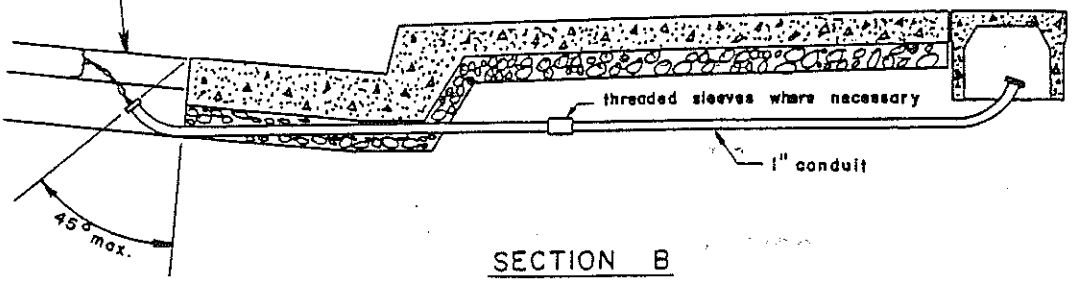
PLAN



SECTION A

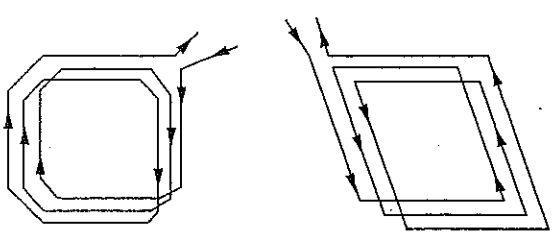


PLAN

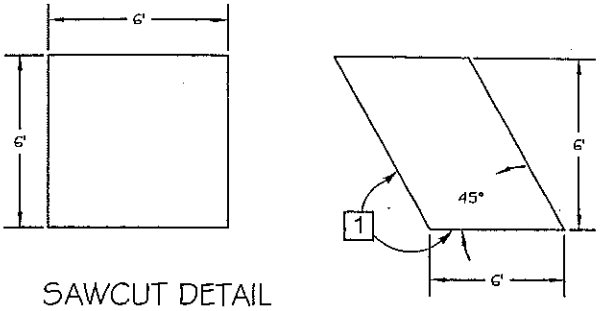


SECTION B

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: CITY ENGINEER	DATE: 2/10/89	5—16



WINDING DETAIL

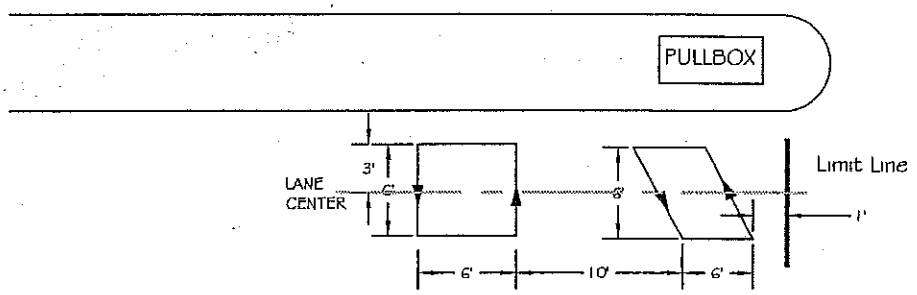


SAWCUT DETAIL

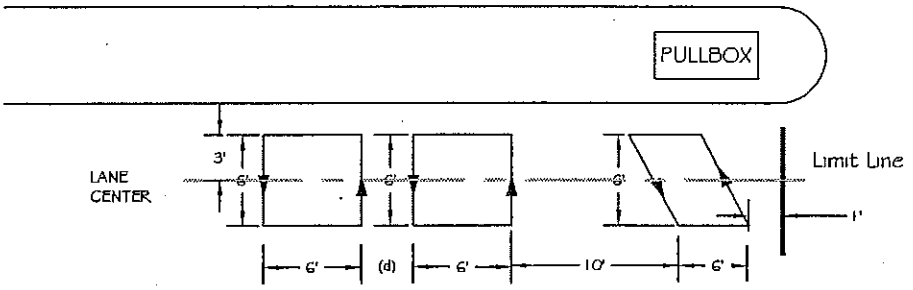
[1] ROUND CORNERS OF ACUTE ANGLES TO PREVENT DAMAGE TO CONDUCTORS.

TERMINATION

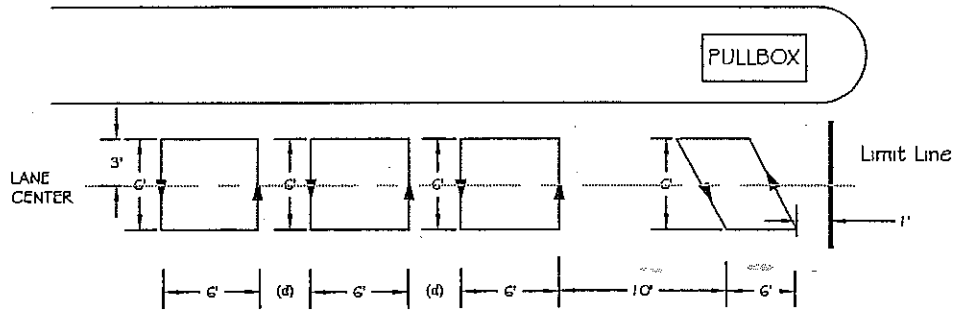
TYPE 3S



TYPE 4S



TYPE 5S



GENERAL NOTES:

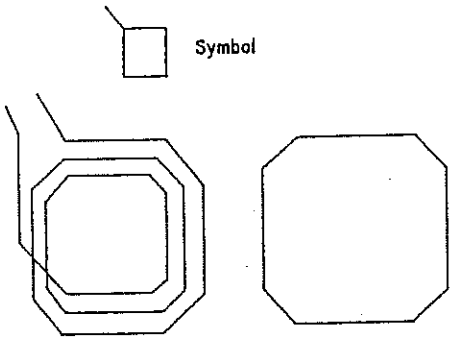
d = 10' unless noted otherwise

TYPICALLY USED IN LEFT TURN POCKETS. HOWEVER, MAY BE USED FOR LIMIT LINE DETECTION.

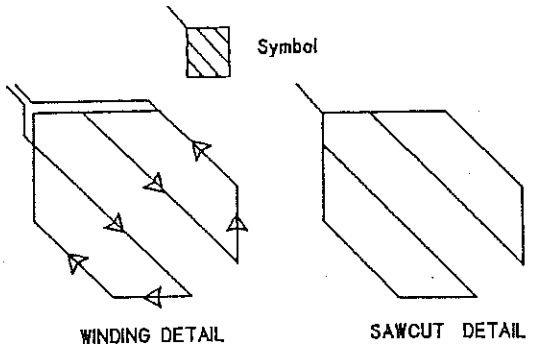
DIRECTION OF TRAVEL

TYPE 'S A' LOOP INSTALLATION

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ City Engineer DATE: 1.18.02	5-17



TYPE A LOOP DETECTOR CONFIGURATION

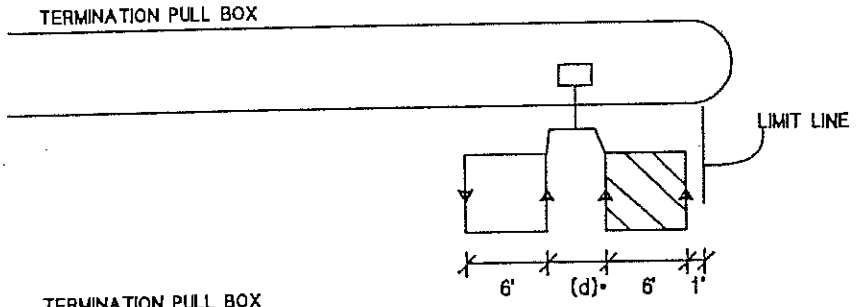


TYPE D LOOP DETECTOR CONFIGURATION

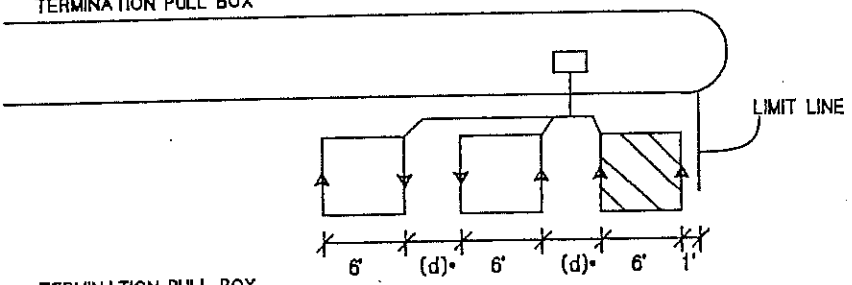
[1] ROUND CORNER OF ACUTE ANGLES TO PREVENT DAMAGE TO CONDUCTORS

[2] INSTALL FIVE (5) TURNS WHEN ONE TYPE D LOOP IS IN SERIES WITH AN ADITIONAL 6' X 6' LOOP ON A SENSOR UNIT CHANNEL FOR SLOT DETAIL SEE, LOOP INSTALLATION PROCEDURE, STANDARD PLAN, ES - 5A

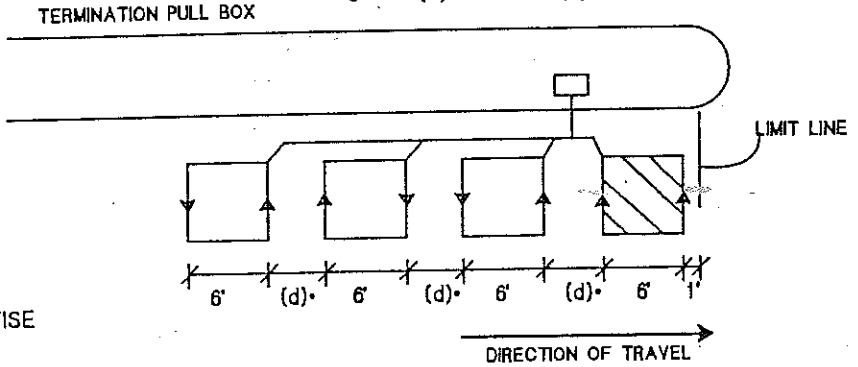
TYPE 3DA



TYPE 4DA(d)•



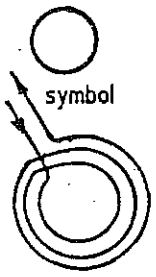
TYPE 5DA(d)•

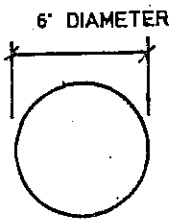


• d= 10", UNLESS NOTED OTHERWISE

TYPE 'DA' LOOP INSTALLATION

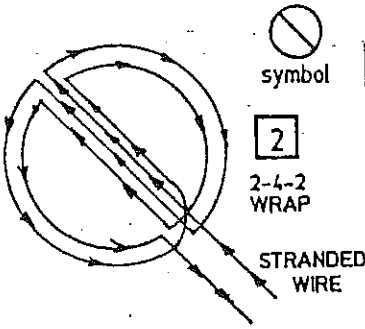
CITY OF CUPERTINO STANDARD DETAIL	APPROVED: _____ DATE : 7/27/94 CITY ENGINEER	5-18

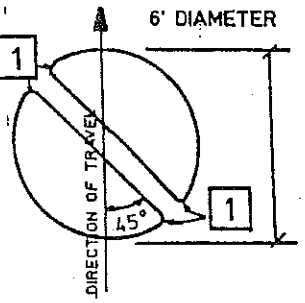




WINDING DETAIL SAWCUT DETAIL

CIRCULAR LOOP DETECTOR CONFIGURATION



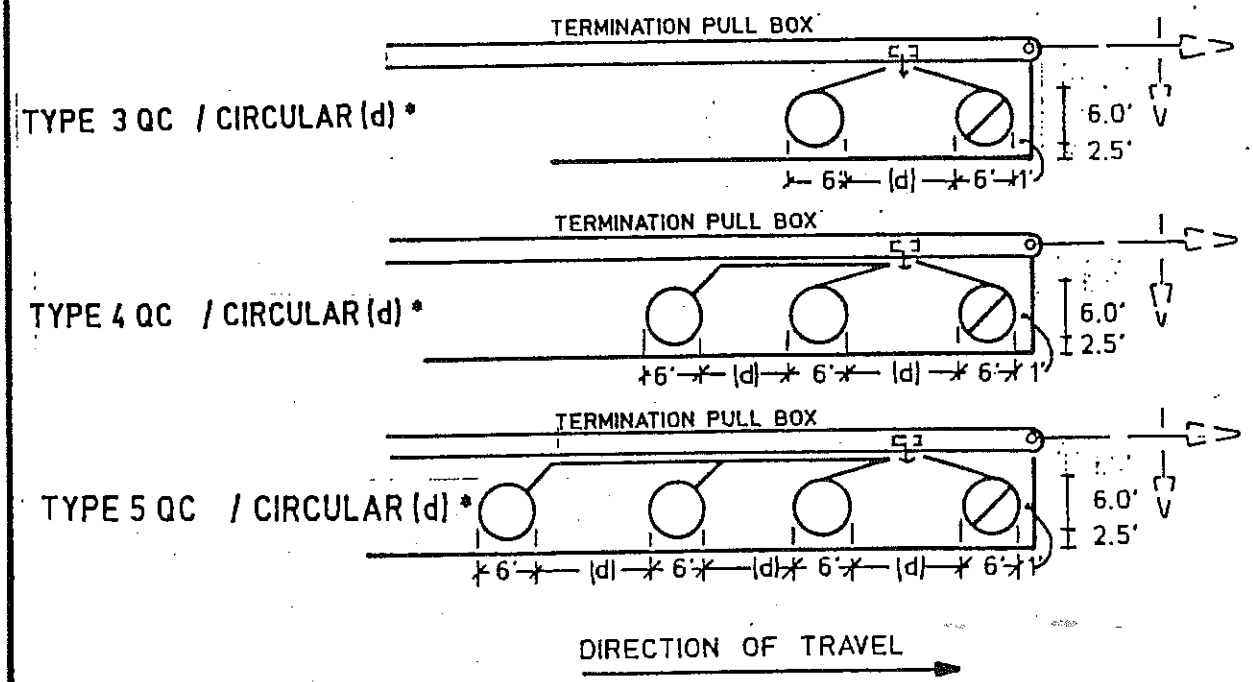


WINDING DETAIL SAWCUT DETAIL

QC LOOP DETECTOR CONFIGURATION

1 ROUND CORNERS OF ACUTE ANGLES TO PREVENT DAMAGE TO CONDUCTORS

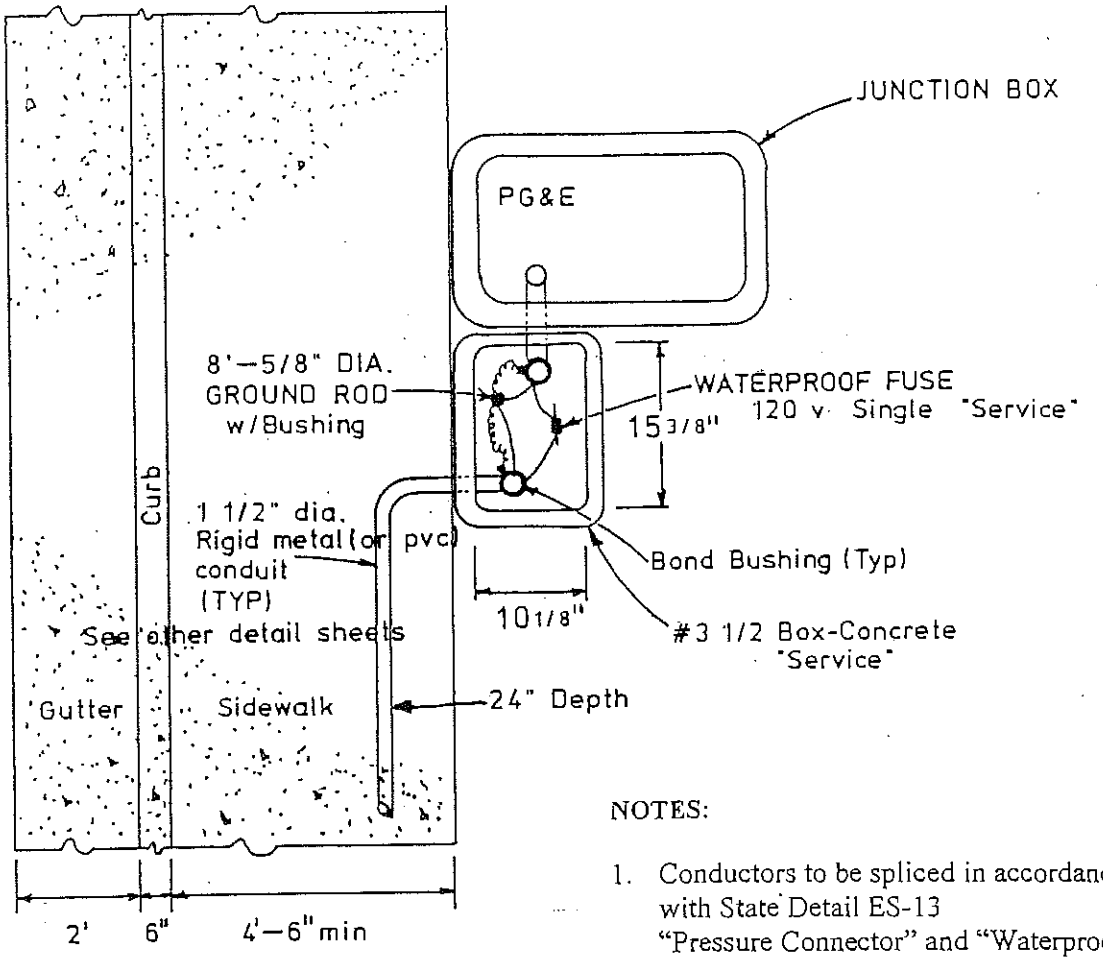
2 INSTALL 2-4-2 TURNS WHEN ONE TYPE PHASE LOOP IS IN SERIES WITH AN ADDITIONAL CIRCULAR LOOP ON A SENSOR UNIT CHANNEL FOR SLOT DETAIL SEE, LOOP INSTALLATION PROCEDURE, STANDARD PLAN, ES-5A



TYPE QC / CIRCULAR LOOP INSTALLATION

*d = 10' Unless noted otherwise

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY : CITY ENGINEER	DATE : 5/11/92	5-19



NOTES:

1. Conductors to be spliced in accordance with State Detail ES-13 "Pressure Connector" and "Waterproof"
2. See Lighting Notes.
3. Contact PG&E for additional information.
4. Fuses to be KTK-R type or equal.
5. Color code wires per State Specifications.
6. Feeder conductors are to be a # 8 min. with THW insulation.
7. Contact U.S.A. prior to doing any work.
8. 8' – 5/8" diameter copper ground rod with bushing shall not be placed less than 6" to other grounding rods.
9. PVC Schedule 40 electrical type shall carry a separate grounding wire size of conductors.

SERVICE DETAIL

REVISED 9/16/99

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ CITY ENGINEER DATE: 2/10/99	5—20

LIGHTING NOTES:

1. Luminaires, junction boxes, 1 ½" rigid metal conduit, 1 ½" PVC conduit, and poles shall comply with Section 86 of the Caltrans Standard Specifications and City Standard Details unless otherwise noted.

2. Luminaires may be cut off, Type M-II or M-III I.E.S. light distribution, unless otherwise noted. At cul-de-sacs M-III or better is required unless otherwise noted. See the plans.

3. The electrolier arm length shall be twelve feet (12') for forty foot (40') street widths with sidewalks, eight feet (8') without sidewalks, and shall be fifteen feet (15') at cul-de-sacs. See plans for other applications.

4. The service supplying any electrolier circuit shall be fused and grounded in accordance with National Electrical Code at the first junction box. An additional fuse is required at each electrolier on any ungrounded conductor. Conductors shall be #8 THW unless otherwise noted and all services should be 120V. Photo electric unit control is to be at the luminaire unless otherwise noted.

5. The electrical contractor shall obtain a service point confirmation and a clearance from Public Works Department prior to installing any foundations, poles, conduits and conductors. Also, U.S.A. shall be used to verify locations of other utilities.

6. Prior to placing any work other than curb and gutter, the developer shall supply the Public Works Department with a Pacific Gas and Electric Company electrical power design with electrical service points and pole numbers.

7. A Public Works Department connection order is required to energize any electrolier. Provided by City of Cupertino after completion and inspection for submittal to PG&E.

8. Contact Pacific Gas & Electric Company for additional requirements and contact Public Works Department for inspections of foundations forty eight (48) hours prior to foundation pouring, and electrical inspections.

9. The electrical contractor shall supply to the City for approval, manufacturer's submittals on all luminaires. High Pressure Sodium is the City Standard.

10. Street lights are to be installed, inspected and turned on as soon as possible.

11. All conductors shall be sized in accordance with the National Electrical Code.

12. All overload protection (fuses) shall be sized in accordance with the National Electrical Code.

13. Whenever a new installation is near any overhead wires, a clearance must be obtained from PG&E prior to foundation installation.

STREET TREE SPECIFICATIONS

1. Allowable street trees: (variance from this list is allowed with City Approval)
   a. Tristaia Laurina *Tristania
   b. Melaleuca Leucadendra *Melaleuca
   c. Magnolia g.' St. Mary' *Magnolia
   d. Pyrus Calleryana *Aristocrat Pears
   e. Pistacia Chinensis *Chinese Pistacio
   f. Fraxinus Oxycarpa *Raywood Ash
   g. Lagerstromia Indica *Crape Myrtle
   h. Ginko Biloba *Ginko

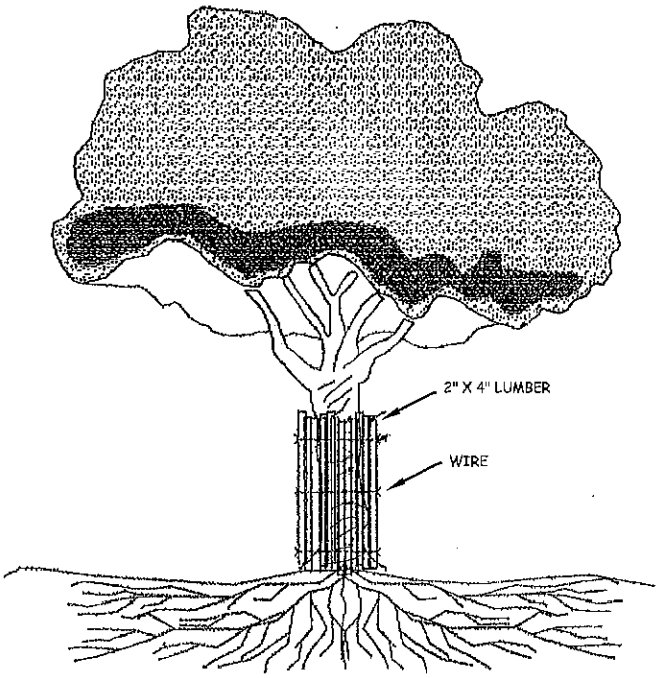
   *Common names

2. Purchasing Trees:
   a. Tree must be healthy, have a form typical for species or cultivar, be well-rooted, and properly trained.
   b. Tree shall comply with Federal and State Standards.
   c. Tree's root-ball shall be moist throughout. Contain no roots one-fifth (1/5) the trunk diameter circling the trunk and free of "knees" protruding above the soil.
   d. Tree must have a single, fairly straight trunk. No lateral branches below the lowest potential scaffold should be larger than one-fourth (1/4) the trunk diameter at point of attachment.

3. Digging of Hole:
   a. Dig hole approximately 2 inches less than the depth required so that the tree can be planted 1 inch high.
   b. Hole should be as wide as diameter of deep root barrier.
   c. Mix polymer with soil from the hole for the back fill material.

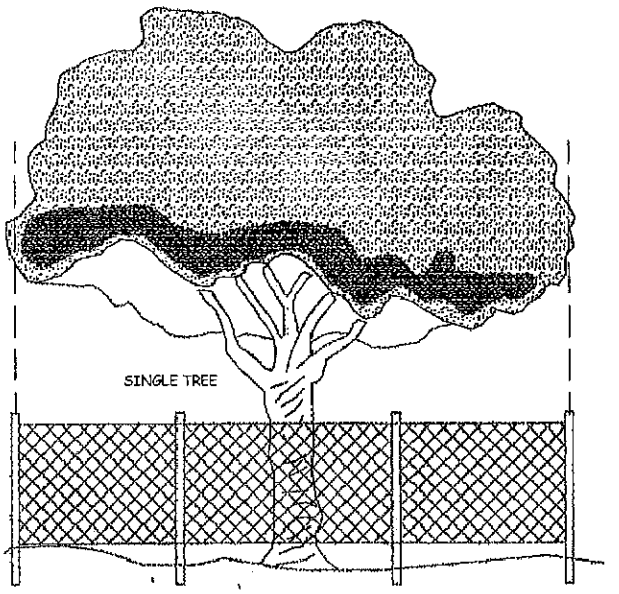
4. Planting Tree:
   a. Place deep root barrier in hole at grade of existing ground.
   b. Place tree in deep root barrier and backfill with the above mentioned mix. Place two (2) slow release fertilizer (20-10-5) tablets 9 inches below the surface within the deep root barrier.
   c. Make 6 inch high berm around root barrier (except in turf area.)
   d. In turf areas keep the turf well away from the trunk of the tree during the first 2 to 4 years.
   e. Trees shall be double staked in accordance with detail.

5. Watering:
   a. Water is to be placed in the basin around the tree formed by the berm and within the root barrier around the tree.
   b. Tree requires approximately 10 gallons of water per week applied at one time to encourage deeproot growth throughout the warm months for approximately 2 - 3 years.
   c. Water and fertilizing is the residents responsibility throughout the trees life.



TYPICAL BARK PROTECTION

NOT TO SCALE



4-FOOT HIGH FENCING

TYPICAL TREE PROTECTION FENCING

NOT TO SCALE

1. Prior to any construction operations contractor shall construct and maintain, for each protected tree on a construction site, a protective fencing which encircles the outer limits of the critical root zone(CRZ) of the tree to protect it from construction activity. The CRZ is calculated 1.25 feet times the diameter of the trunk measured in inches 4.5 feet above the natural grade).

2. All protective fencing shall be in place prior to commencement of any site work and remain in place until all exterior construction activity at the site has been completed.

3. Protective fencing shall be at least six (6) feet high, clearly visible, and shall have a tree protection sign affixed to the fence every twenty (20) feet in such a manner to be clearly visible and legible to workers on the site at a distance of twenty-five (25) feet. The sign(s) shall read "Tree Protection Zone Keep out".

4. The owner sball cause the required fencing and signage to be installed and maintained for the duration of the construction.

5. In situations where a protected tree remains in the immediate area of intended construction and the tree may be in danger of being damaged by construction equipment or other activity, the contractor or subcontractor shall protect the tree with 2"x4" lumber encircled with wire or other means that do not damage the tree. The intent is to protect the trunk of the tree against incidental contact by large construction equipment.

6. Material Storage: No storage or placement of materials intended for use in construction or waste materials accumulated due to excavation or demolition shall be placed within the limits of the critical root zone of any protected tree.

7. Equipment Cleaning/Liquid Disposal: No equipment shall be cleaned or other liquids, including, without limitation, paint, oil, solvents, asphalt, concrete, mortar or similar materials deposited or allowed to flow into the critical root zone of a protected tree.

8. Tree Attachments: No signs, wires or other attachments, other than those of a protective nature, shall be attached to any protected tree.

9. Vehicular Traffic: No vehicular and/or construction equipment traffic or parking shall take place within the critical root zone of any protected tree other than on existing street pavement.

10. No heavy equipment, including but not limited to trucks, tractors, trailers, bulldozers, excavators, skid steer tractors, trenchers, compressors, and hoists, shall be allowed inside the drip-line of any protected tree on any construction site.

11. Grade Changes: No grade changes shall be allowed within the limits of the critical root zone of any protected tree unless adequate protective construction methods are approved in advance in writing by the city.

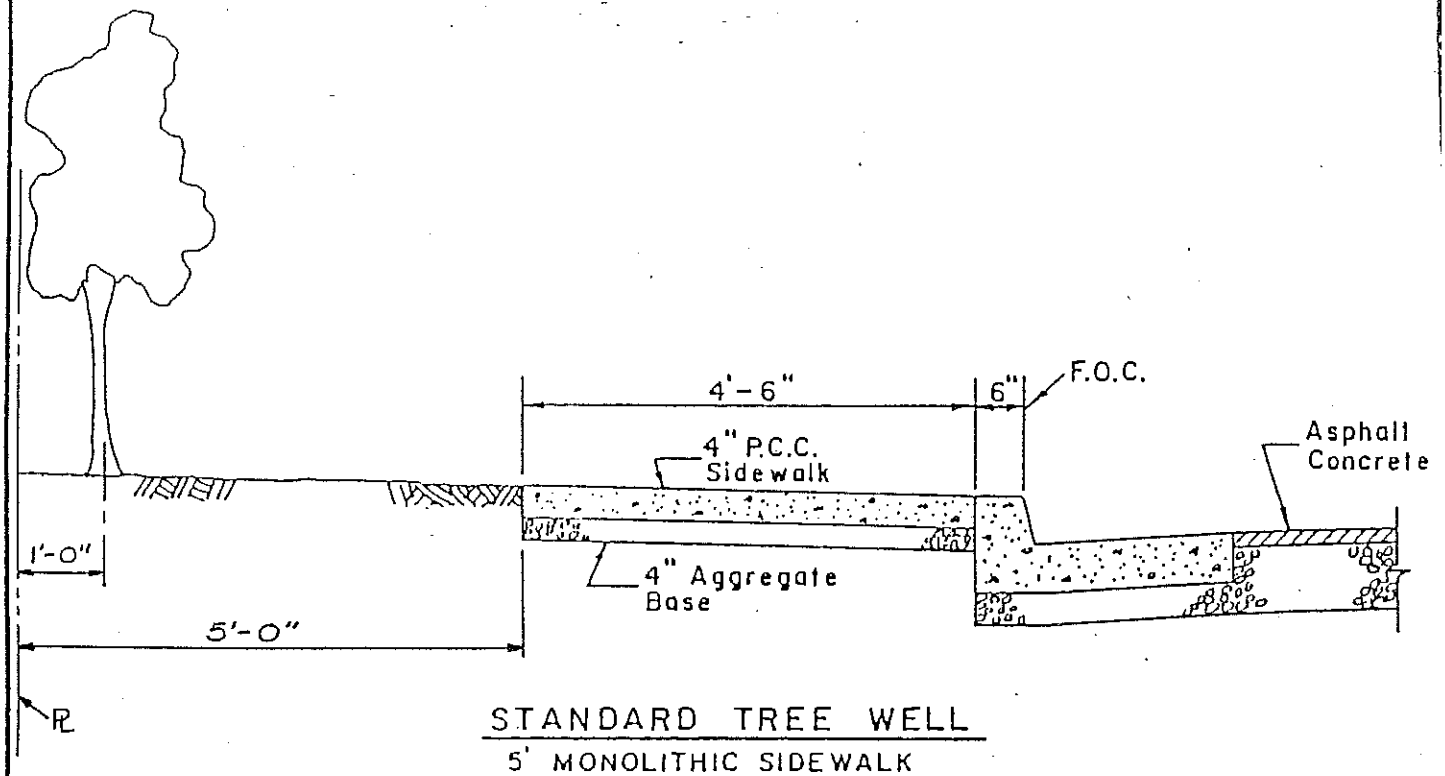
12. Impervious Paving: No paving with asphalt, concrete or other impervious materials shall be placed within the limits of the critical root zone of a protected tree, unless expressly permitted by the public works Dept

13. Root Pruning: All roots two inches or larger in diameter which are exposed as a result of trenching or other excavation shall be cut off square with a sharp medium tooth saw and covered with natural fiber burlap within two hours of initial exposure.

14. All public sidewalks shall remain open, free and clear for public access, unless closure is permitted by the Public Works Department.

TREE PROTECTION STANDARDS

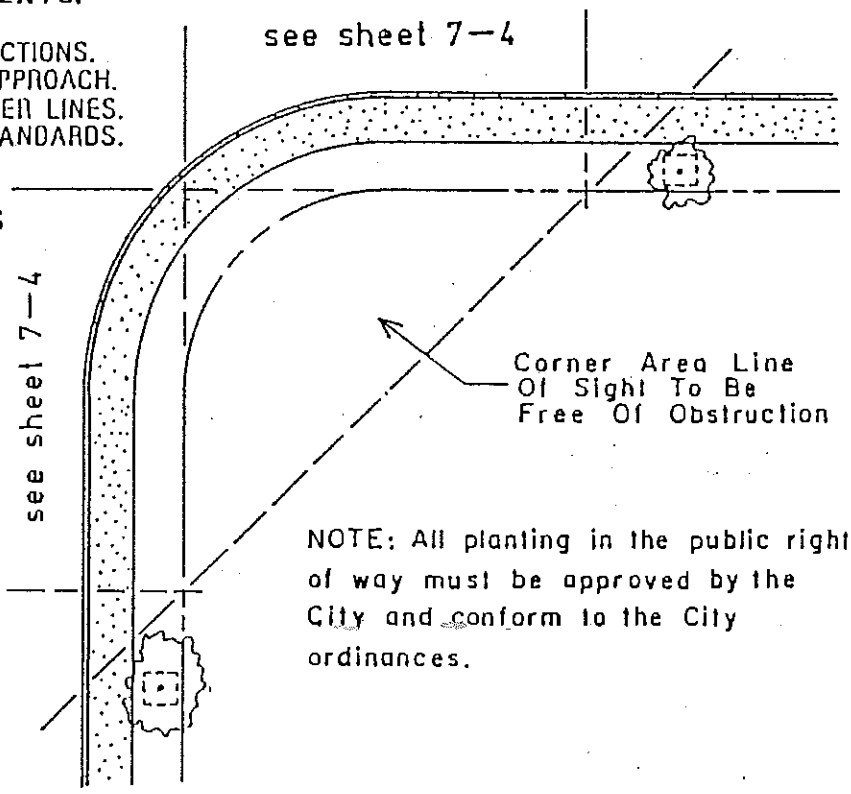
REVISED 5/13



STANDARD TREE WELL
5' MONOLITHIC SIDEWALK

STREET TREE PLANTING REQUIREMENTS:

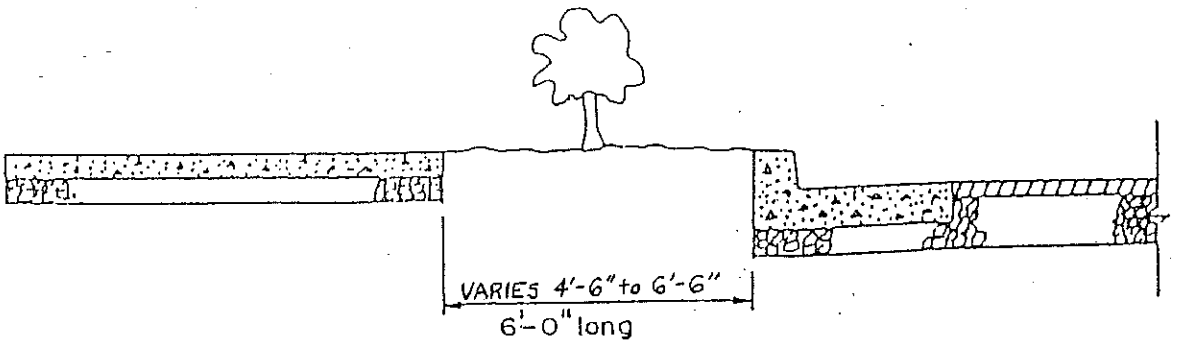
1. TREE SPACING 40' MIN TO 60" MAX.
2. PLANT 25' MIN. FROM B.C.R AT INTERSECTIONS.
3. PLANT 10' MIN. FROM EDGE OF DRIVE APPROACH.
4. PLANT 10' MIN. FROM UTILITY AND SEWER LINES.
5. PLANT 21' MIN. FROM STREET LIGHT STANDARDS.
6. PLANT 18' MIN. FROM POWER POLES.
7. PLANT 10' MIN. FROM FIRE HYDRANTS.
8. 4'-6"x 6' TREE WELL STANDARD, UNLESS OTHERWISE SPECIFIED

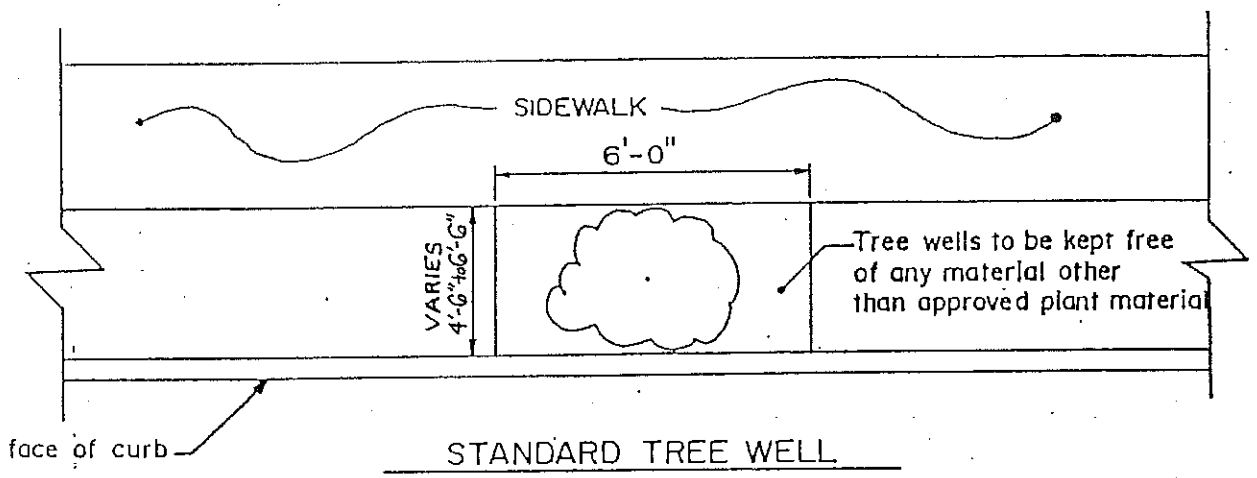


NOTE: All planting in the public right of way must be approved by the City and conform to the City ordinances.

TREE PLANTING IN PUBLIC RIGHT OF WAY

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ CITY ENGINEER DATE: 12/16/91	6-6





STANDARD TREE WELL

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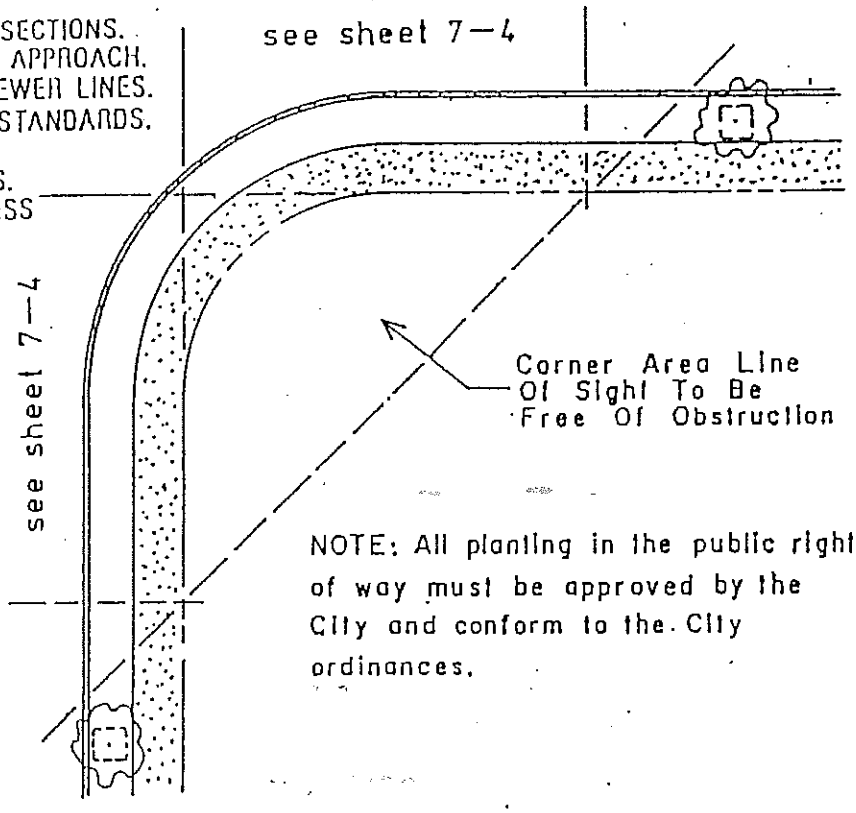


NOTE: All planting in the public right of way must be approved by the City and conform to the City ordinances.

TREE PLANTING IN PUBLIC RIGHT OF WAY

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ CITY ENGINEER	DATE: 12/16/91	6—8

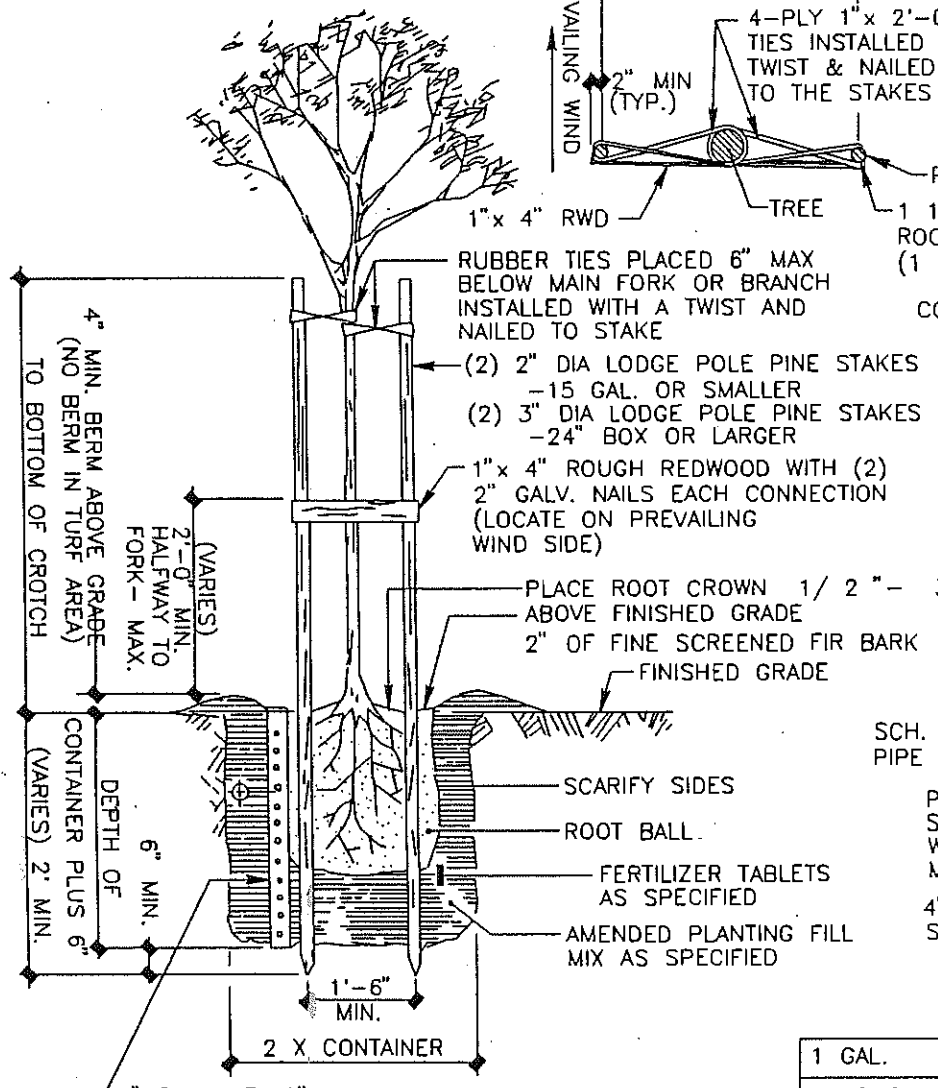
CITY OF CUPERTINO
STANDARD DETAILS

APPROVED BY: _____
CITY ENGINEER

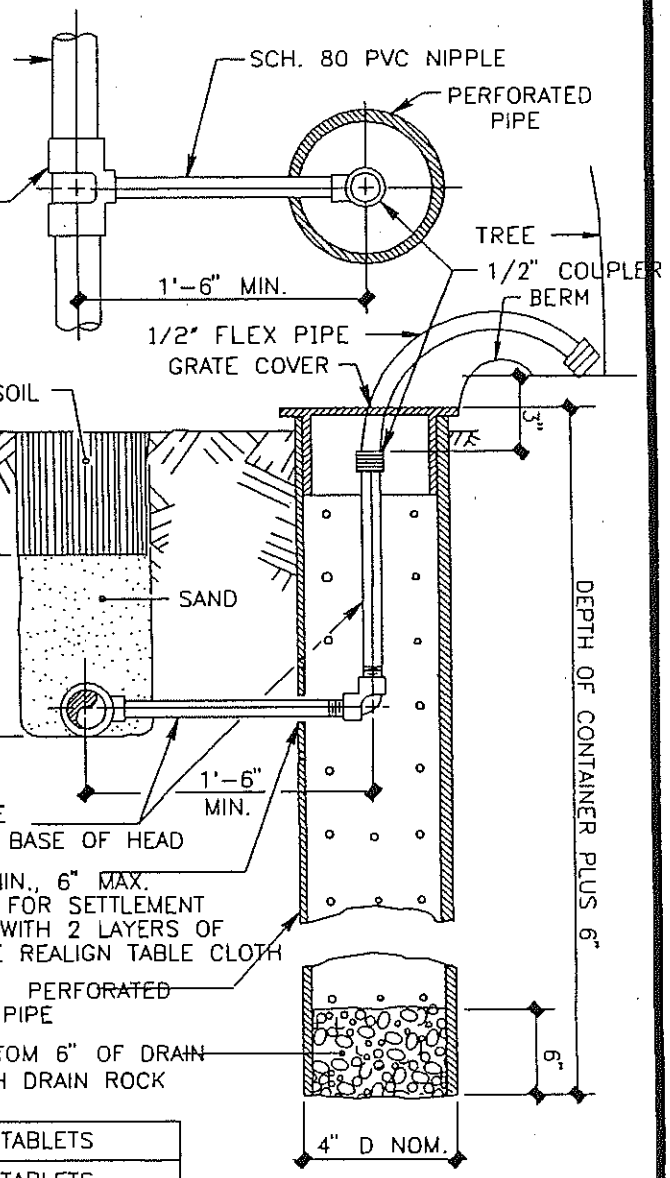
DATE: 1/12/06

6-10

TREE PLANTING WITH BUBBLER IRRIGATION



NOTES:
USE 2 PIPES IN CONCRETE CUT-OUT AREAS. PUT PIPE ON UPHILL SIDE OF TREE. LEVEL SITE NORTH OF TREE.



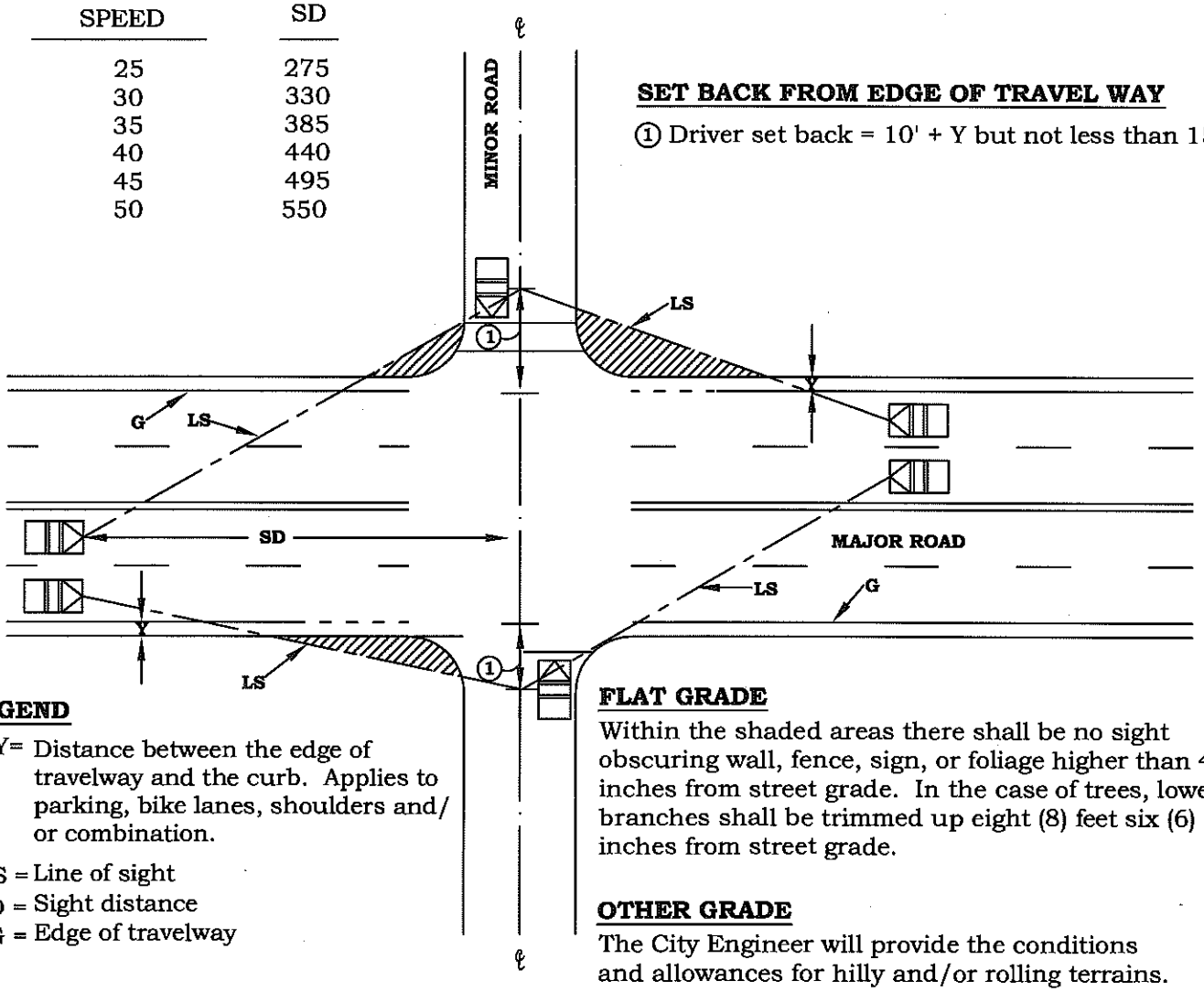
BUBBLER DETAIL

1 GAL.	2 TABLETS
2 OR 5 GAL.	3 TABLETS
15 GAL.	6 TABLETS
24" BOX OR LARGER	10 TABLETS

FERTILIZER

CORNER SIGHT DISTANCE

DESIGN 85th PERCENTILE SPEED	SD
25	275
30	330
35	385
40	440
45	495
50	550



SET BACK FROM EDGE OF TRAVEL WAY

① Driver set back = 10' + Y but not less than 15'

LEGEND

Y= Distance between the edge of travelway and the curb. Applies to parking, bike lanes, shoulders and/ or combination.

LS = Line of sight

SD = Sight distance

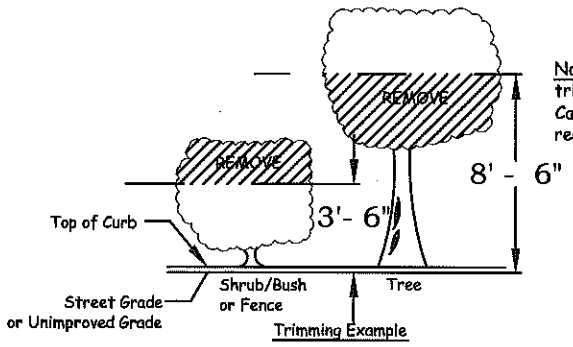
G = Edge of travelway

FLAT GRADE

Within the shaded areas there shall be no sight obscuring wall, fence, sign, or foliage higher than 42 inches from street grade. In the case of trees, lower branches shall be trimmed up eight (8) feet six (6) inches from street grade.

OTHER GRADE

The City Engineer will provide the conditions and allowances for hilly and/or rolling terrains.



Note: Street trees shall be trimmed by City staff only. Call 408-777-3269 to request service.

Note: If no curb/gutter exist, the measuement is 3' from existing grade.

CONTROLLED INTERSECTIONS

FLAT GRADE

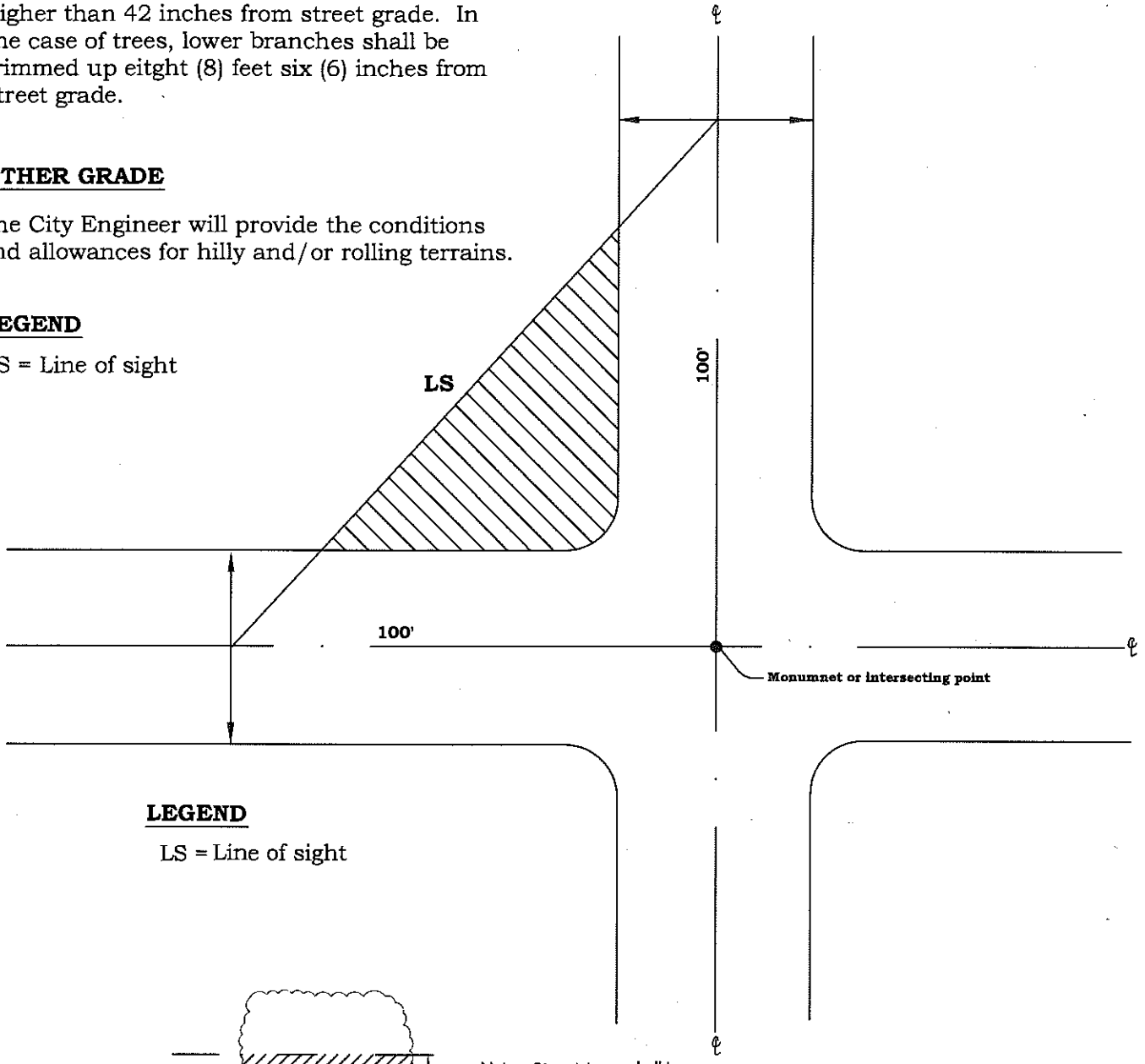
Within the shaded areas there shall be no sight obscuring wall, fence, sign, or foliage higher than 42 inches from street grade. In the case of trees, lower branches shall be trimmed up eitght (8) feet six (6) inches from street grade.

OTHER GRADE

The City Engineer will provide the conditions and allowances for hilly and/or rolling terrains.

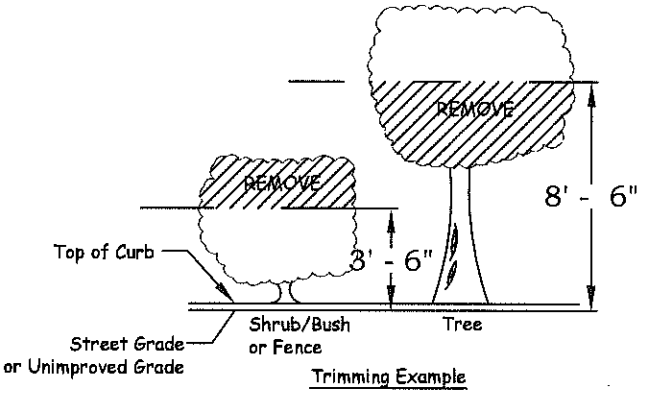
LEGEND

LS = Line of sight



LEGEND

LS = Line of sight

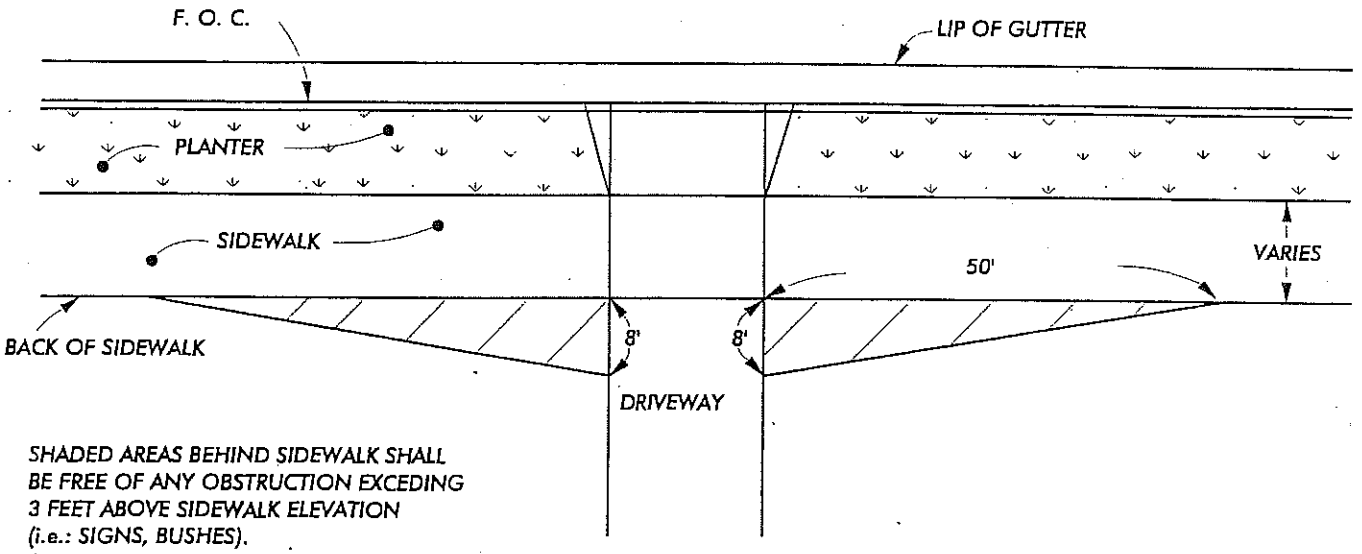


Trimming Example

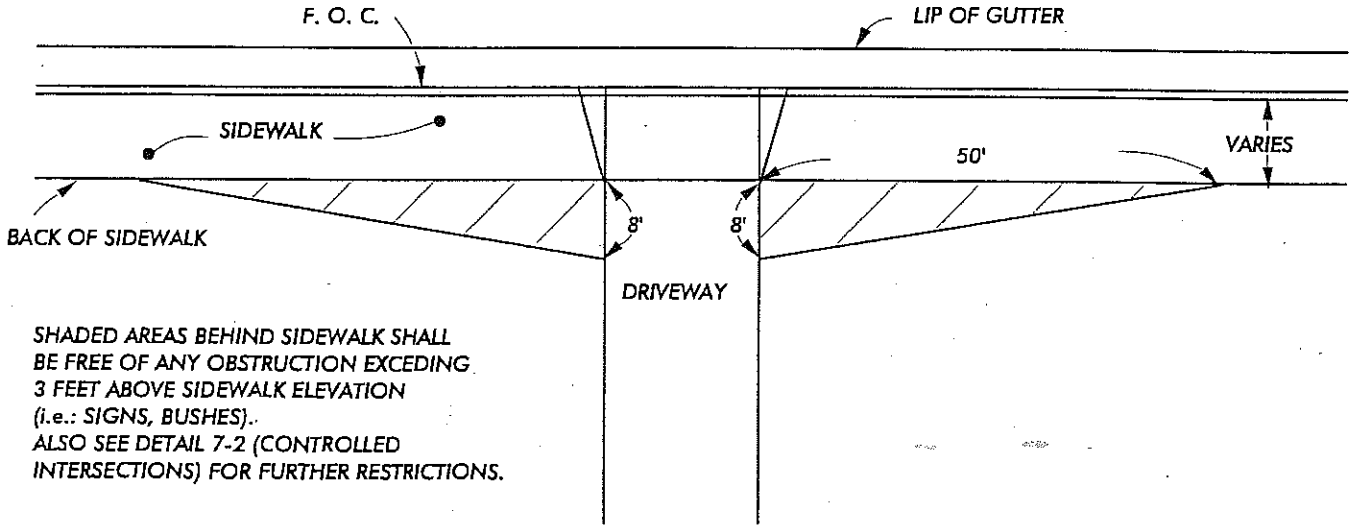
Note: If no curb/gutter exist, the measuement is 3' from existing grade.

Note: Street trees shall be trimmed by City staff only. Call 408-777-3269 to request service.

UNCONTROLLED INTERSECTIONS



SHADED AREAS BEHIND SIDEWALK SHALL BE FREE OF ANY OBSTRUCTION EXCEDING 3 FEET ABOVE SIDEWALK ELEVATION (i.e.: SIGNS, BUSHES).
ALSO SEE DETAIL 7-2 (CONTROLLED INTERSECTIONS) FOR FURTHER RESTRICTIONS.



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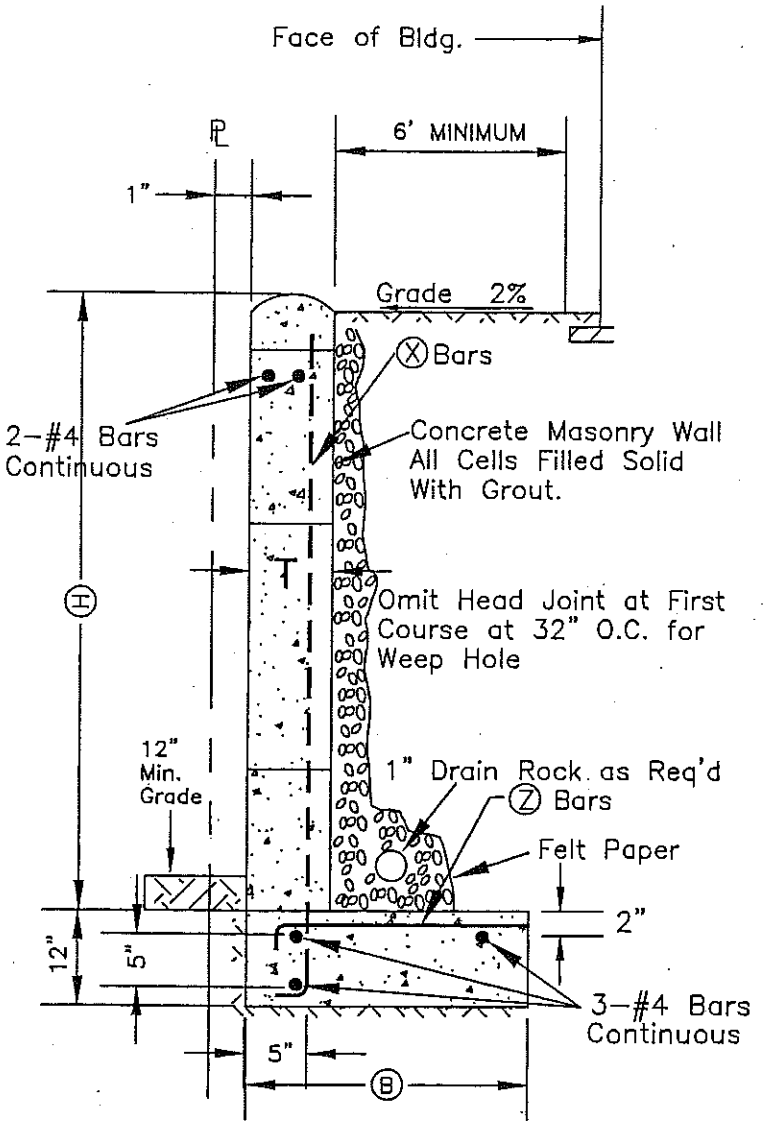
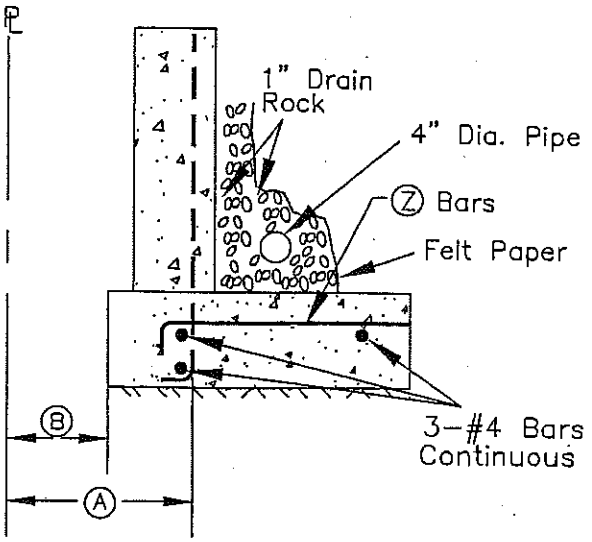
SIDEWALK CLEARANCE AT DRIVEWAYS



Pour Footing Against Undisturbed Natural Soil



NOTE: Drains are required on ALL walls.

	A	B
PUBLIC R/W	3	1.5
ADJACENT PROPERTY	1.5	0.5

RETAINING WALL GREATER THAN 3' HIGH SHALL BE DESIGNED BY A CIVIL/STRUCTURAL ENGINEER.

SPECIFICATIONS:
GRADE "N" MASONRY UNITS
TYPE = "M" or "S" GROUT
GRADE = 40 STEEL
E.F.P. = 30 #/FT^3
LATERAL SIDING = .35

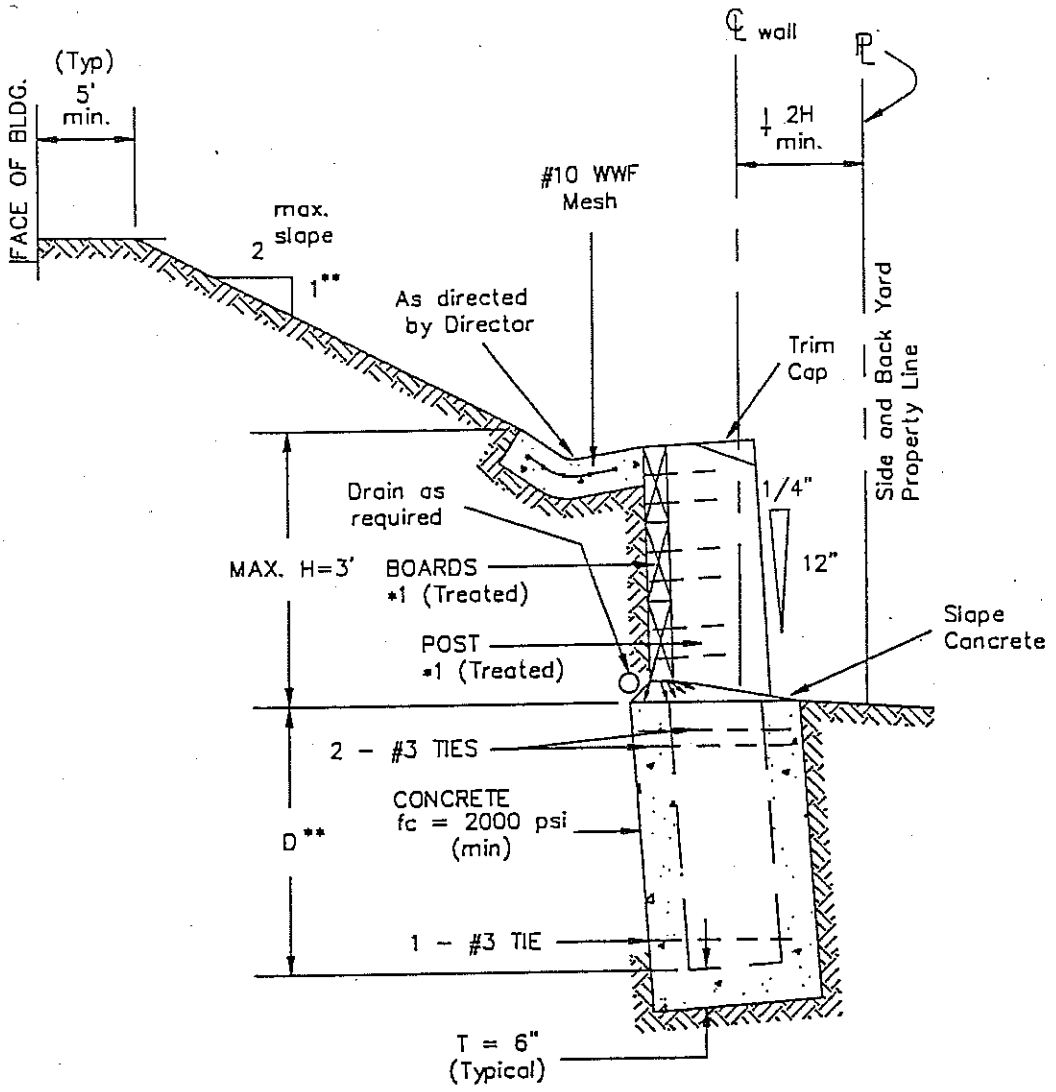
Ⓗ	Ⓣ	Ⓑ	Ⓧ	Ⓩ
3'max.	6"	1'–10"	#4 at 18"	#4 at 48"

NOTES:
1. Contact Public Works Deportment for Permit Requirements.
2. Plans indicating Top of Wall (T.W.) Elevation, Existing and Finished Grades are required on all Retaining Wall Permits.

CONCRETE BLOCK RETAINING WALLS

REVISED 7/5/00

CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: CITY ENGINEER DATE: 7/9/2000	8–2



CROSS SECTION

H	D**	POSTS	MAX. SPACING	BOARDS
FT.	FT.	SIZE		SIZE
3	3	8" x 8"	6'	2' x 12"
2	2	6" x 6"	6'	2' x 12"
1	1	6 "x 6"	6'	2' x 12"

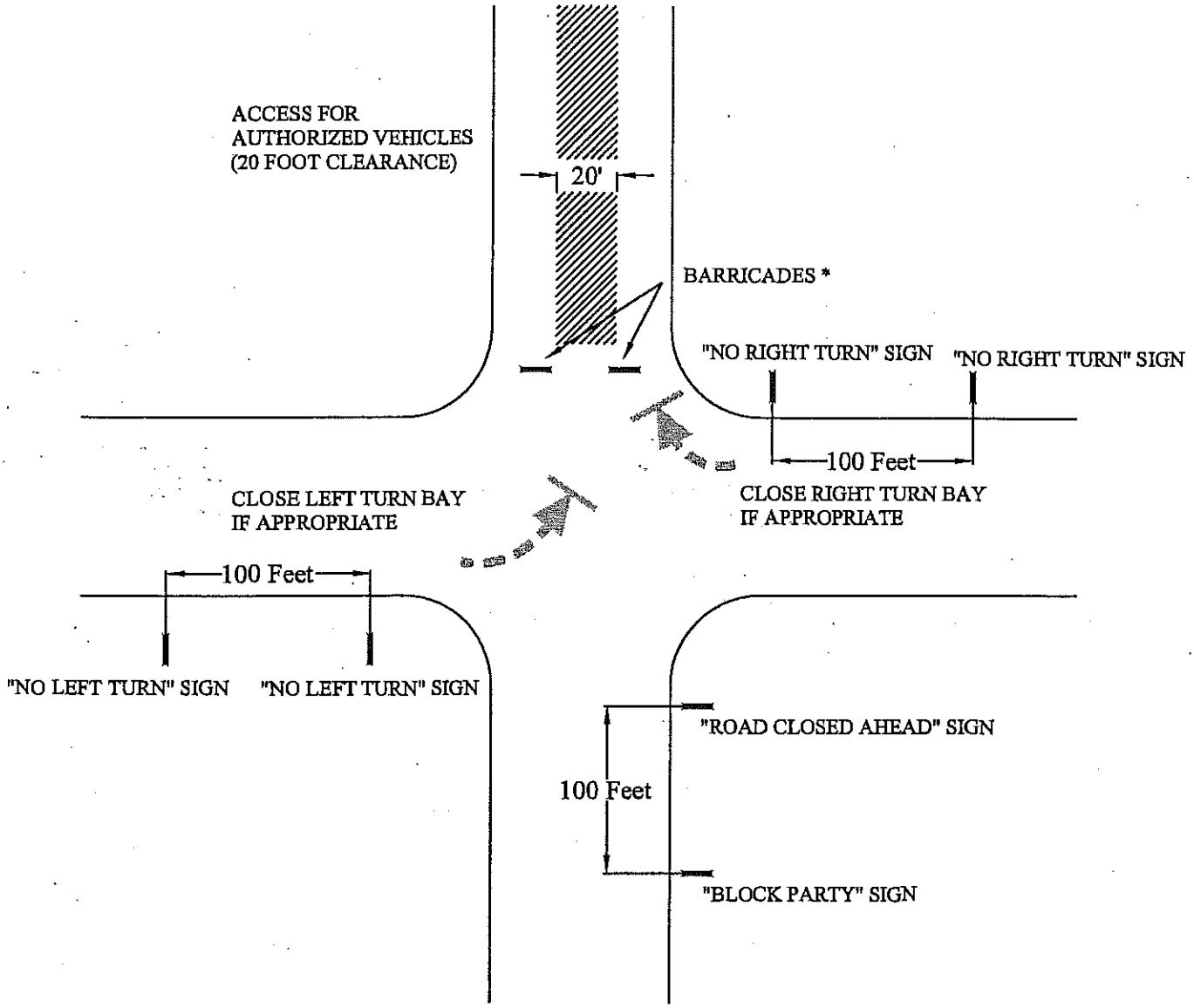
NOTES:

*1. PRESERVATIVE TREATMENT (CREOSOTE or EQUAL) IN ACCORDANCE WITH SECTION 58, STANDARD SPECIFICATIONS (STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, CURRENT EDITION).

**2. IF CERTIFIED BY SOILS ENGINEER.

† 3. BLOCK WALL IS REQUIRED IF WALL IS WITHIN 2 x H FROM PROPERTY LINE (℗).

TIMBER RETAINING WALL



* BARRICADES WITH **"ROAD CLOSED"** AND **"BLOCK PARTY"** SIGNS (PERMITTEE SHALL POST A COPY OF THE INSURANCE & PERMIT AT EACH APPROACH CLOSED)

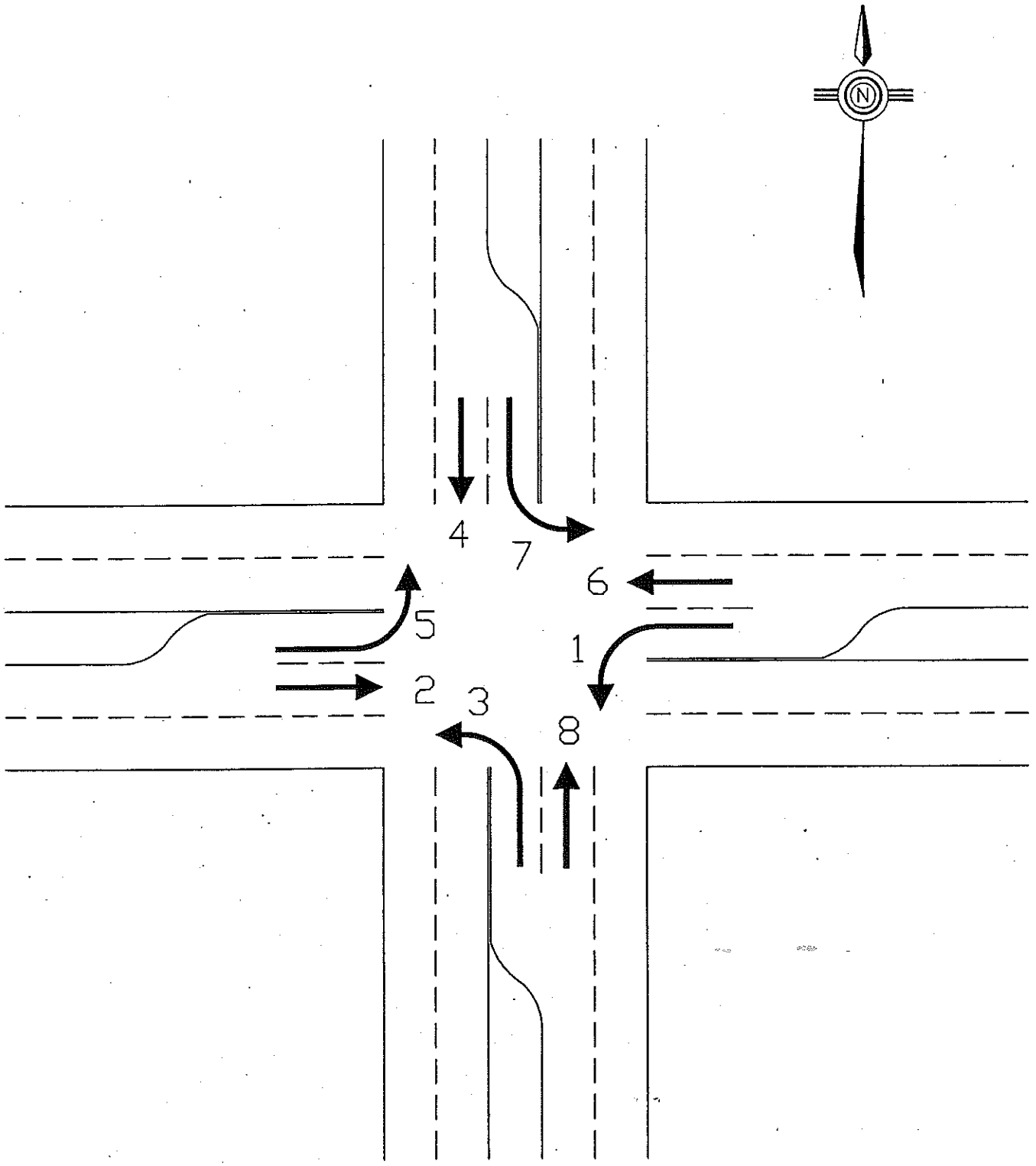
NOTES:

1. CITY SHALL FURNISH ALL BARRICADES AND SIGNS.
2. BLOCK PARTY PERMITTEE SHALL MAINTAIN A 20 FOOT CLEARANCE PATH IN THE TRAVEL WAY AT ALL TIMES.

LEGEND:

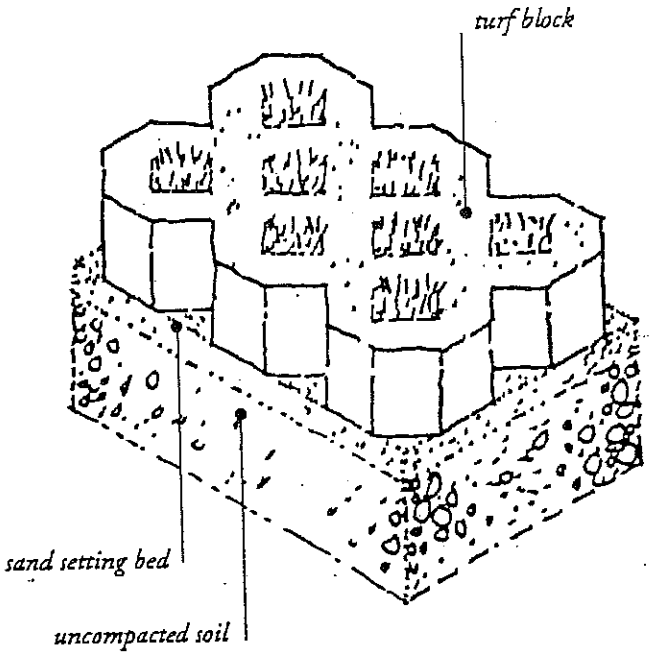
BARRICADE W/SIGN

TYPICAL CLOSING OF BLOCK



TRAFFIC SIGNAL PHASING

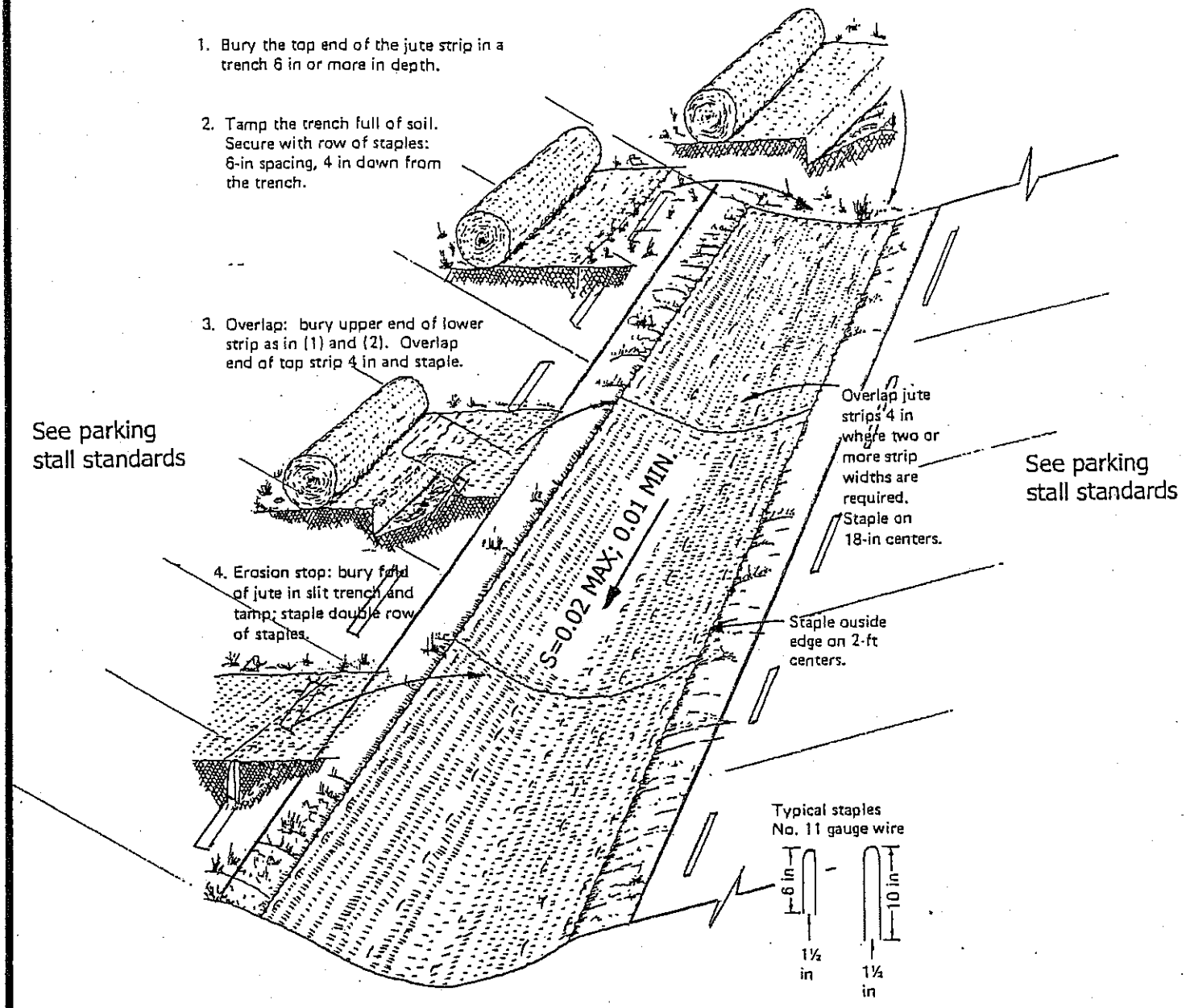
CITY OF CUPERTINO STANDARD DETAILS	APPROVED BY: _____ CITY ENGINEER DATE: 1/5/99	8-8



NOTES:

1. SHALL BE USED ONLY ON OVERFLOW PARKING AREAS, DRIVEWAYS, AND EMERGENCY ACCESS ROADS.
2. TYPES OF PLANTS/TURFS SHALL BE APROVED BY PLANNING DEPARTMENT.
3. SHALL MEET MINIMUM WHEEL LOADING CAPACITY. OWNER TO PROVIDE SPECIFICATIONS.

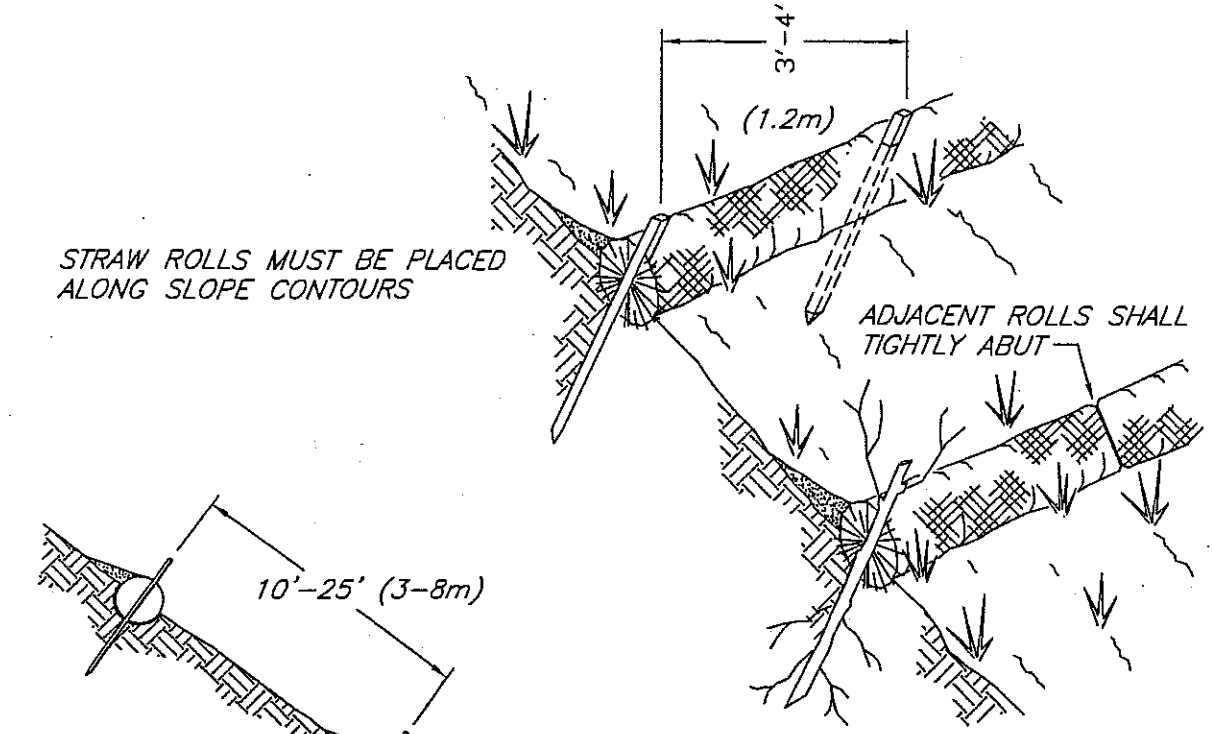
TURF BLOCK

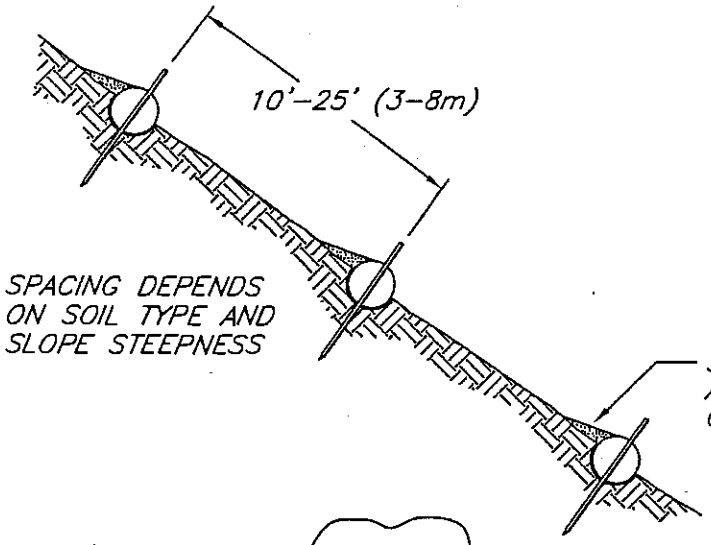


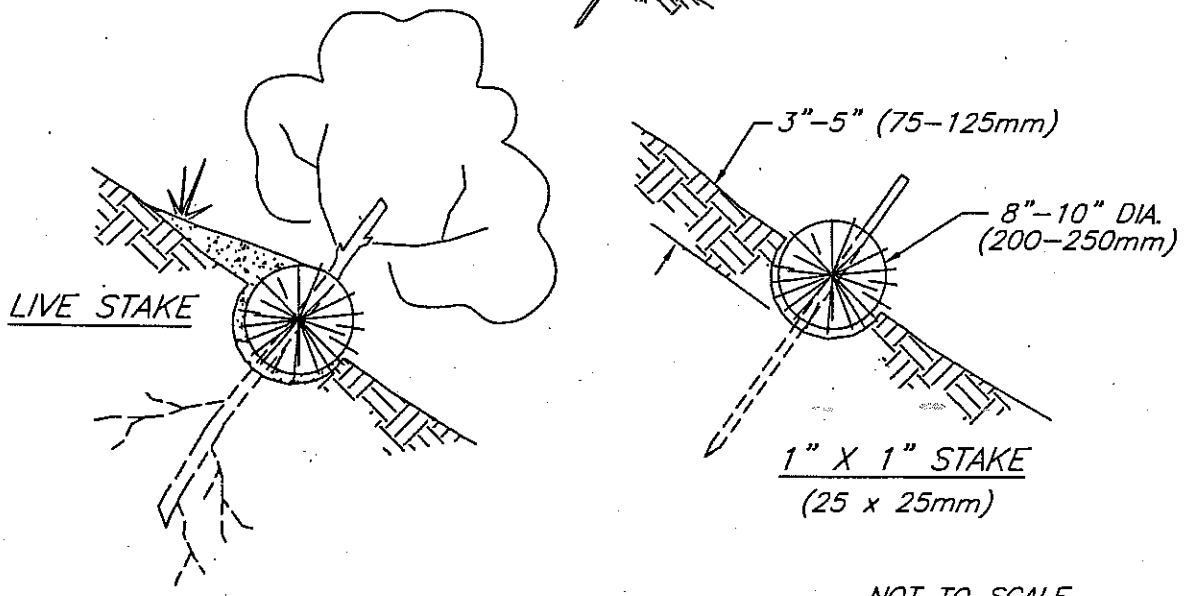
Tree planting is required at 25' o.c.

- Finish grade shall match flow line and not prevent run-off from draining.
- Type of tree shall be approved by Planning Department

GRASSED WATERWAYS WITH JUTE MAT







NOT TO SCALE

NOTE:

1. STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3"-5" (75-125mm) DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.

STRAW ROLLS

FILE: STRWROLL

CITY OF CUPERTINO STANDARD DETAILS

APPROVED BY: _____ CITY ENGINEER DATE: 11.2.01