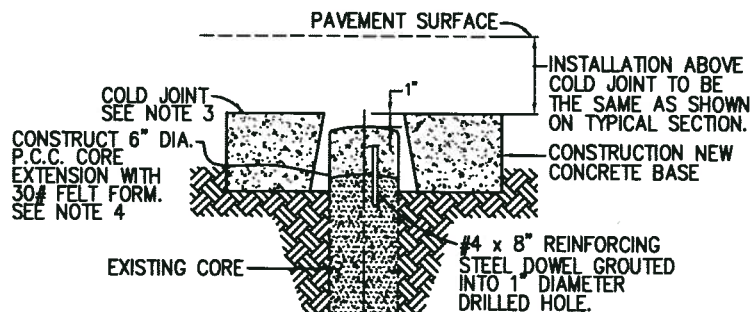


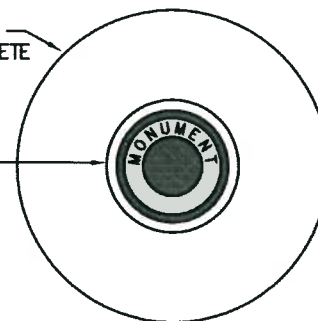
DETAIL "A"
FRAME ADJUSTMENT



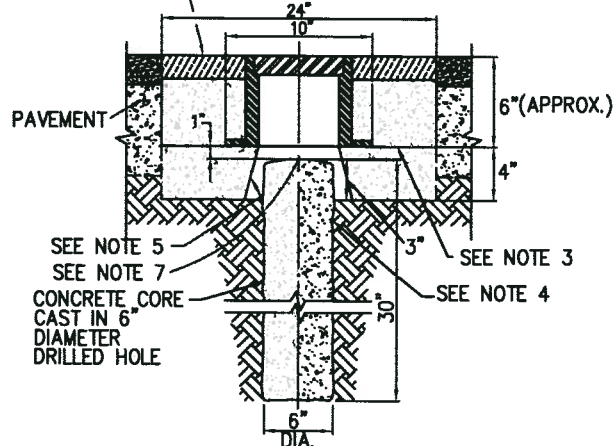
DETAIL "B"
CORE EXTENSION

24" DIAMETER PORTLAND CEMENT CONCRETE JACKET COVERED WITH 2" OF ASPHALT CONCRETE SEE NOTE 1.

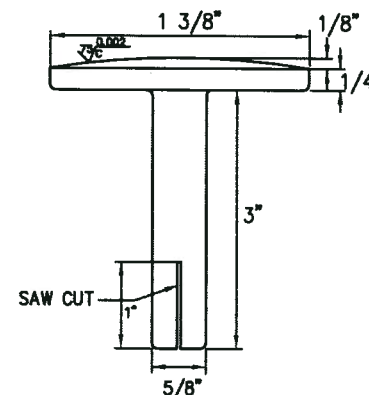
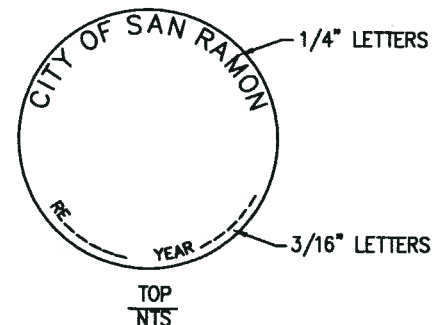
METAL COVER AND FRAME (SCHEMATIC ONLY)-SEE NOTE 2



2" ASPHALT CONCRETE FILL AROUND FRAME TO PROVIDE SMOOTH MATCH WITH PAVEMENT.



TYPICAL SECTION
ORIGINAL INSTALLATION



SECTION
MONUMENT DISK

NOTES:

1. PORTLAND CEMENT CONCRETE FOR JACKET AND CORE SHALL BE CLASS 1 PER CURRENT CALTRANS SPECIFICATIONS. ASPHALT CONCRETE SHALL BE TYPE B 1/2" MAX. - MED. GRADING.
2. APPROVED COVERS AND FRAMES ARE THOSE MANUFACTURED BY FORNI CORP. ("IRONSIDES"). AMERICAN BRASS AND IRON FOUNDRY, AND MONROE CASTING. OTHER TYPES MUST BE APPROVED BY THE CITY ENGINEER. COVERS SHALL BE MARKED "MONUMENT", SHALL BE NON-ROCKING, & DESIGNED FOR A 16,000 POUND WHEEL LOAD.
3. 30# FELT TO CREATE A "COLD JOINT".
4. 6" DIAMETER COLLAR FORMED WITH 30# FELT, 1" BELOW "COLD JOINT".
5. TAPERED METAL CONE OR 3/32" MINIMUM CHIPBOARD CONE.

6. SOLID BRASS MARKER (1 3/8" DIAMETER TOP AND 5/8" x 3" SHANK) WITH DISTINCTIVE PUNCH AND R.E. OR L.S. NUMBER.
7. ADJUSTMENT RINGS (NOT SHOWN) ARE AVAILABLE FOR BOTH TYPES OF FRAMES. MAXIMUM HEIGHT OF ADJUSTMENT BY RINGS: WHEN REQUIRED ADJUSTMENT EXCEEDS ABOVE LIMITS, THE FRAME SHALL BE RAISED TO CONFORM TO THE NEW PAVEMENT SURFACE AS SHOWN IN DETAIL "A".
8. WHEN DIMENSION "H" FROM TOP OF FRAME TO TOP OF CONCRETE CORE (SEE DETAIL "A") EXCEEDS 12", THE CORE SHALL BE EXTENDED AS SHOWN IN DETAIL "B".
9. ALL LETTERING TO BE STAMPED 1/16" DEEP.
10. ALL FILLETS AND ROUNDS TO BE 1/16" RADIUS.



CITY OF SAN RAMON

DETAIL R-1

DRAWN BY: ELR

CHECKED BY: ENG'G., PS

DATE: 05/20/11

STANDARD DETAIL

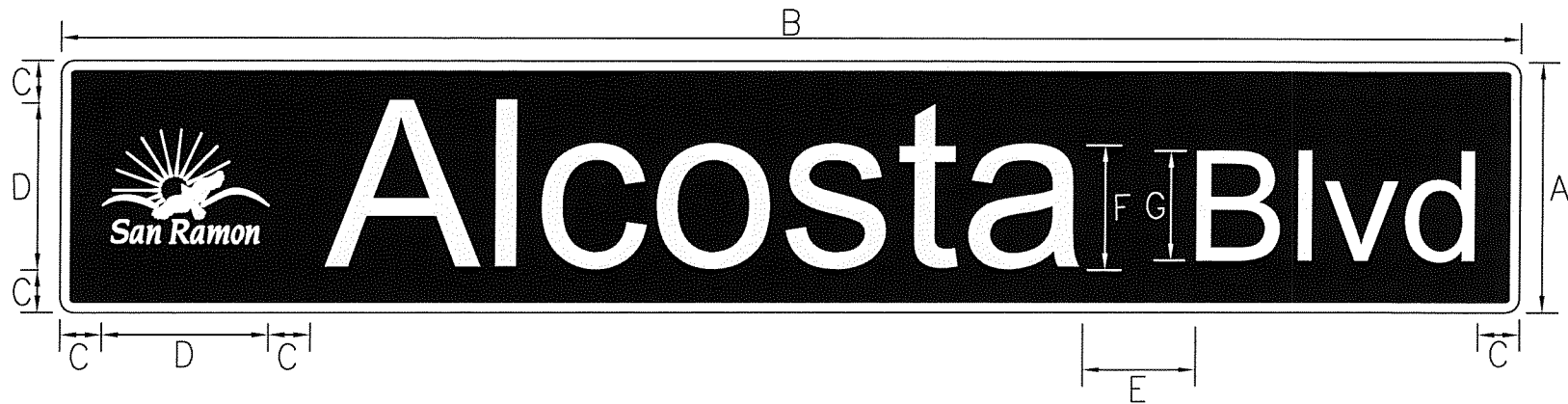
STREET SURVEY
MONUMENT

APPROVED BY:

DATE: 6/1/11

Brian A. Brunstein
CITY ENGINEER

SHT 1 of 1



A	B	C	D	E	F	G
9"	30", 36", or 42" with 1/2" corner radius	1.5"	6"	>=1.5"	4.5"	4"

Type of Letter	Size	Letter Style
Name of Street (th, nd, st, etc)	6" Uppercase, 4.5" Lowercase	Highway Gothic 'B'
Type of Street (Dr, Ave, St, etc)	3" Uppercase, 2.25" Lowercase	Highway Gothic 'B'
N (north), W(west), etc	3" Uppercase	Highway Gothic 'B'
Logo Size	6" X 6" Max.	N/A

Description	Material Types	Required Min. Retroreflectivity	Thickness of Material/Size
Sign Blank Material	Aluminum Alloy	N/A	0.080 gauge
Border Color	3M #3930 White High Intensity Prismatic	Per MUTCD	3/8"
Background Color	Nikkalite 106 Blue ESM Overlay	Per MUTCD	N/A
Lettering Color	3M #3930 White High Intensity Prismatic	Per MUTCD	See table above
Logo Color	3M #3930 White High Intensity Prismatic	Per MUTCD	See table above



CITY OF SAN RAMON

DETAIL R-2a

DRAWN BY: ELR / DF

CHECKED BY: ENG'G., PS

DATE: 10/31/12

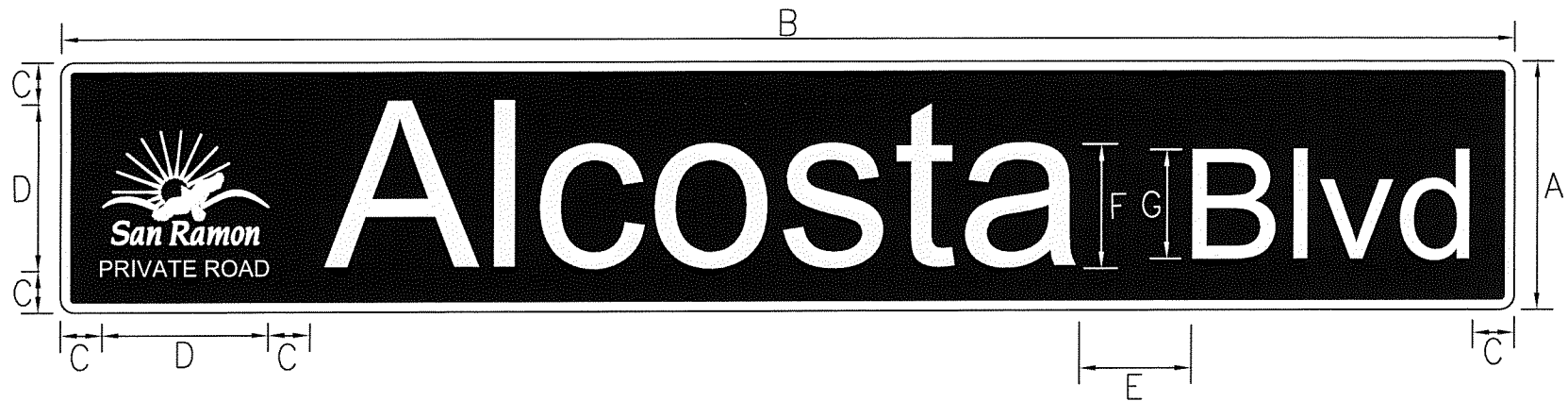
STANDARD DETAIL

STREET NAME SIGN - PUBLIC

APPROVED BY: DATE: 11-14-12

Brian R. Baerstein
CITY ENGINEER

SHT 1 of 2



A	B	C	D	E	F	G
9"	30", 36", or 42" with 1/2" corner radius	1.5"	6"	$\geq 1.5"$	4.5"	4"

Type of Letter	Size	Letter Style
Name of Street (th, nd, st, etc)	6" Uppercase, 4.5" Lowercase	Highway Gothic 'B'
Type of Street (Dr, Ave, St, etc)	3" Uppercase, 2.25" Lowercase	Highway Gothic 'B'
N (north), W (west), etc	3" Uppercase	Highway Gothic 'B'
Logo Size	6" X 6" Max.	Highway Gothic 'B'
PRIVATE ROAD	5/8" Tall, Center Below Logo	Highway Gothic 'B'

Description	Material Types	Required Min. Retroreflectivity	Thickness of Material/Size
Sign Blank Material	Aluminum Alloy	N/A	0.080 gauge
Border Color	3M #3930 White High Intensity Prismatic	Per MUTCD	3/8"
Background Color	Nikkalite 106 Blue ESM Overlay	Per MUTCD	N/A
Lettering Color	3M #3930 White High Intensity Prismatic	Per MUTCD	See table above
Logo Color	3M #3930 White High Intensity Prismatic	Per MUTCD	See table above



CITY OF SAN RAMON

DETAIL R-2b

DRAWN BY: ELR / DF

CHECKED BY: ENG'G., PS

DATE: 10/31/12

STANDARD DETAIL

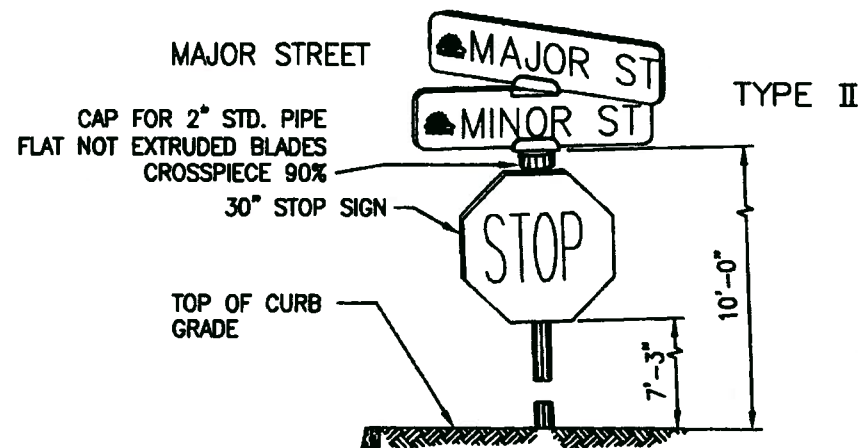
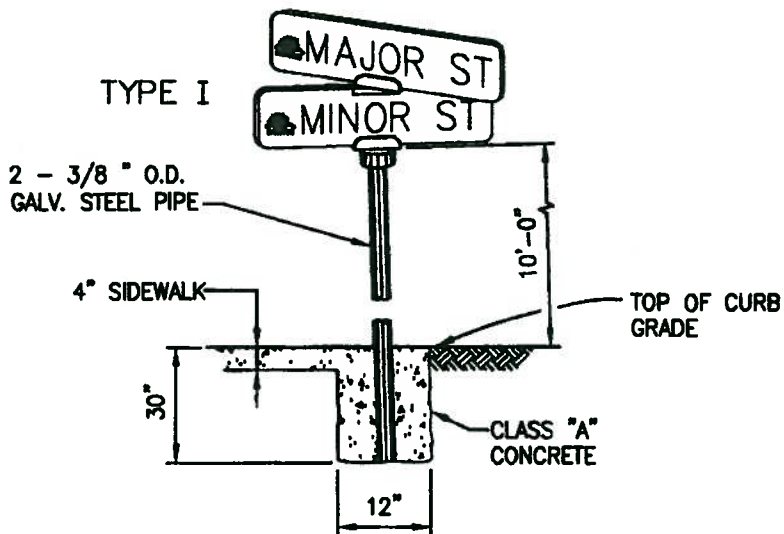
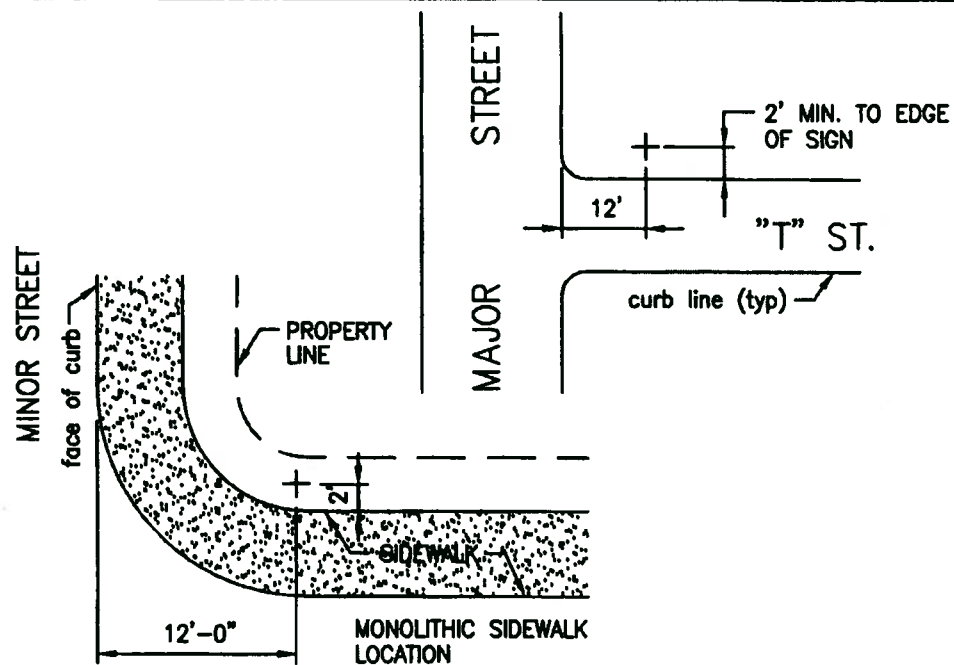
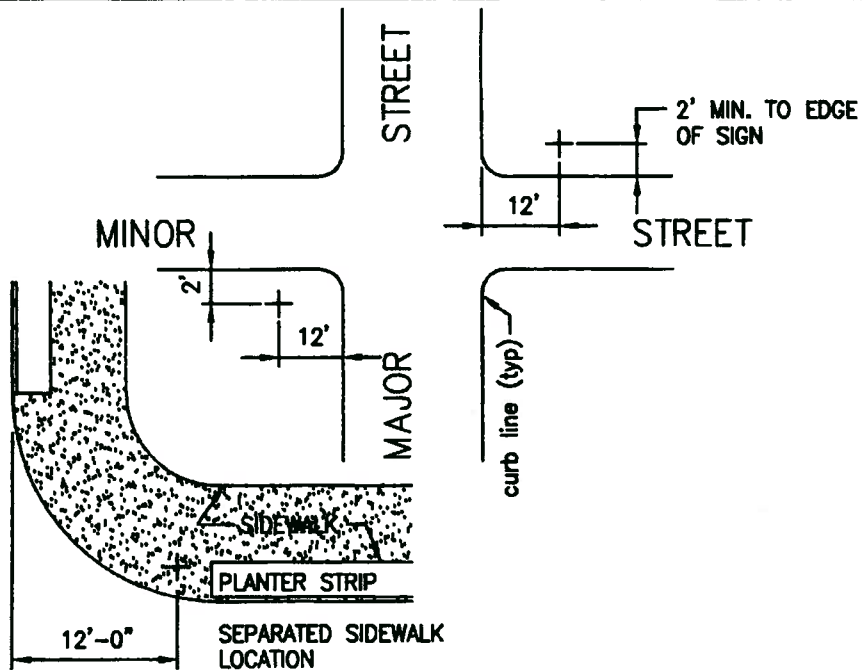
STREET NAME SIGN – PRIVATE

APPROVED BY:

DATE: 11-14-12

Brian R. Barden
CITY ENGINEER

SHT 2 of 2



CITY OF SAN RAMON

DETAIL R-3

DRAWN BY: AA & AH

CHECKED BY: ENGINEERING

DATE: 10/26/00

STANDARD DETAIL

STREET NAME SIGN
LOCATION

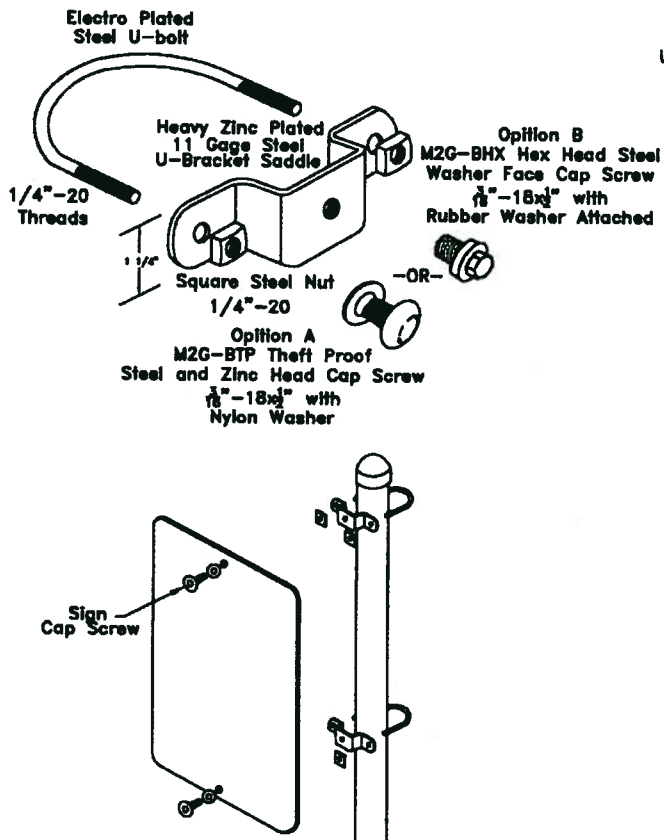
APPROVED BY: DATE: 9/12/01

John Demetrich
CITY ENGINEER

SHT 1 of 1

SINGLE CLAMP ON U-BRACKET

FOR 2" or 2 1/2" I.D. STANDARD

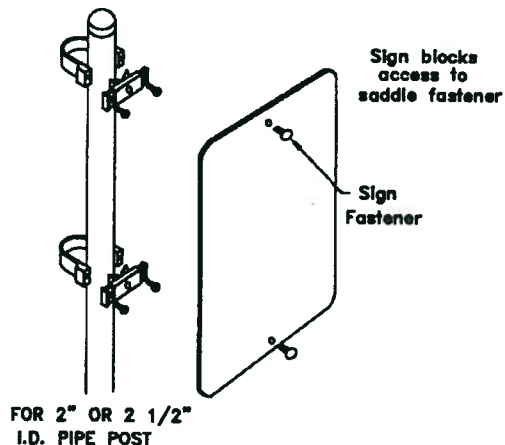
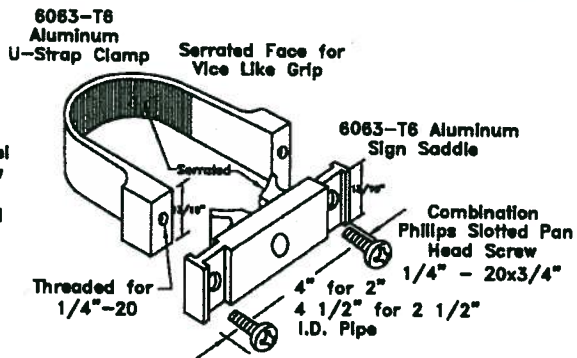


SIGN CAP SCREW SET OPTIONS

Option A	Option B	To Fit
M2G-C2B-TP	M2G-C2B	2" I.D. Pipe
M2G-C2.5B-TP	M2G-C2.5B	2 1/2" I.D. Pipe

SINGLE "STEAL-PROOF" CLAMP ON U-BRACKET

FOR 2" or 2 1/2" I.D. STANDARD



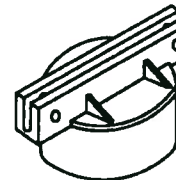
SIGN FASTENER SET OPTIONS

Set to 2" I.D. Pipe	Set to 2 1/2" I.D. Pipe
M2G-C2SPB-TP	M2G-C2.5SPB-TP
M2G-C2SPB	M2G-C2.5SPB
M2G-C2SPB-VPN	M2G-C2.5SPB-VPN
M2G-C2SPB-HN	M2G-C2.5SPB-HN

CYLINDRICAL POST CAPS

Western Highway Products
Product # 808F-2 for AF-9 signs

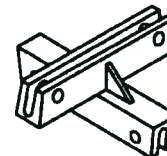
NOTE:
Post caps are recommended for "Single Top of Pole" or "Four-Way Top of Pole" configurations of blade street signs.



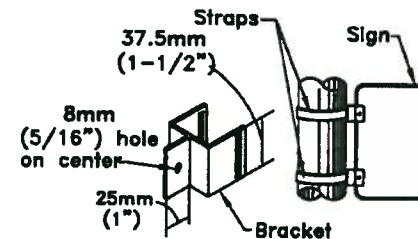
SIGN TO SIGN BRACKET

Western Highway Products
Product # 808FCS for AF-9 signs

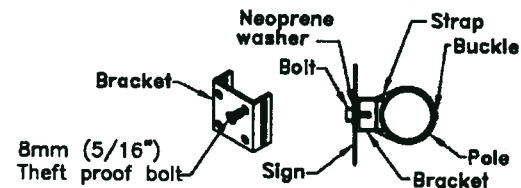
NOTE:
Bracket allows two blade signs to stack on top of one another.



ELECTROLIER MOUNT DETAIL FOR DOUBLE FACED SIGNS



ELECTROLIER MOUNT DETAIL



NOT TO SCALE



CITY OF SAN RAMON

DETAIL R-4

DRAWN BY: ELR

CHECKED BY: ENG'G., PS

DATE: 12/08/08

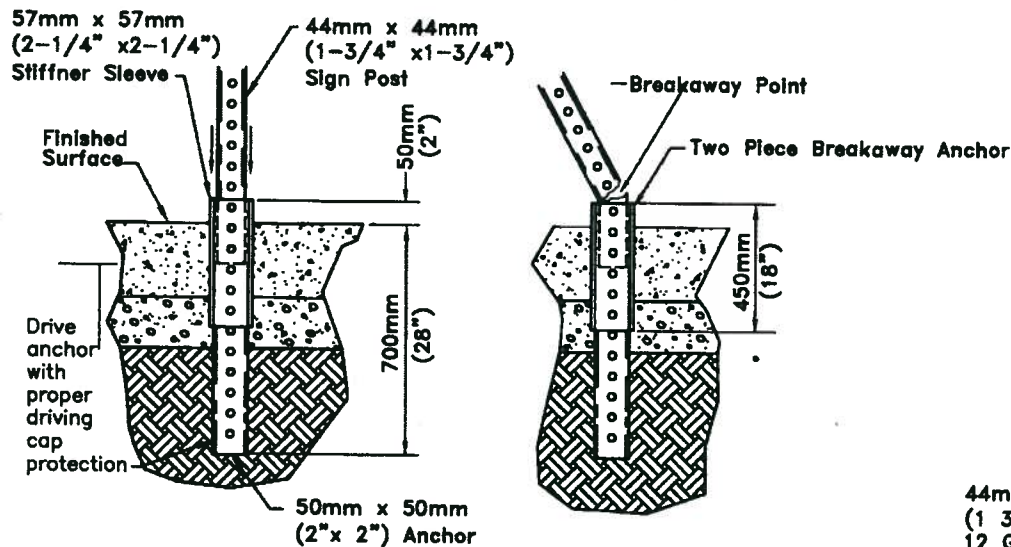
STANDARD DETAIL

STREET NAME AND SIGN
MOUNTING DETAIL

APPROVED BY: DATE: 6/15/09

Jose F. Jarama
CITY ENGINEER

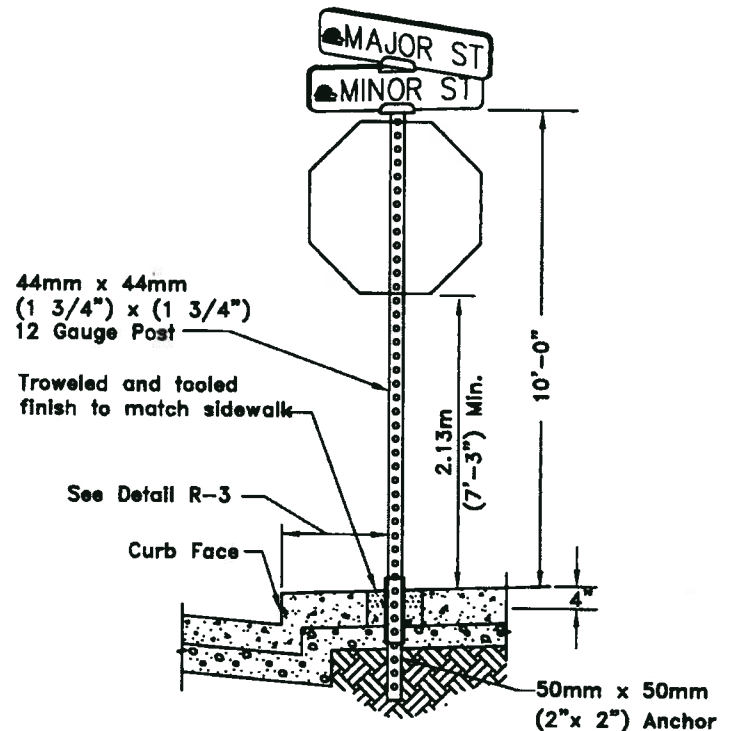
SHT 1 of 1



FOOTING DETAIL

FOR SINGLE FACE SIGNS

1. Use Qwik Punch Unistrut Telespar System or approved equal.
2. Use Two Piece Breakaway Anchors 12 gauge Telespar tubing.
3. All sign locations shall be approved by a Traffic Engineer.
4. Fasten signs to posts with Telespar Drive Rivets or approved equal.
5. Posts shall be pre-galvanized per ASTM A-525 coating designation G90.
6. Core drill sidewalk or remove complete sidewalk panel.
7. Use Hot Dipped Galvanized or SS bolts and hardware. Do not over torque bolts.



SIGN POST DETAIL



CITY OF SAN RAMON

DETAIL R-5

DRAWN BY: ELR

CHECKED BY: ENG'G., PS

DATE: 12/08/08

STANDARD DETAIL

SIGN BREAKAWAY
POST INSTALLATION

APPROVED BY: DATE: 6/15/09

Joy Fehrs
CITY ENGINEER

SHT 1 of 1

TRAFFIC STRIPES, ARROWS, PAVEMENT MESSAGE MARKINGS AND LEGENDS SHALL CONFORM TO THE CURRENT STANDARDS AND DIMENSIONS OF SECTION 84 OF THE CALTRANS STANDARD SPECIFICATIONS AND SHALL BE INSTALLED PER THE APPROVED TRAFFIC CONTROL PLANS OR BY THE CITY TRAFFIC ENGINEER.

ALL TRAFFIC STRIPES, MARKINGS, AND LEGENDS SHALL BE THERMOPLASTIC UNLESS THE PLANS DESIGNATE THE USE OF "TRAFFIC PAINT" OR RAISED PAVEMENT MARKERS.

PRIOR TO PLACING THE THERMOPLASTIC ALL, DIRT, OIL, GREASE PAINTED STRIPES AND PAVEMENT MARKINGS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.

ALL MATERIALS REQUIRED TO INSTALL THE STRIPES, MARKERS, AND LEGENDS SHALL BE FURNISHED BY THE CONTRACTOR.

ALL TRAFFIC STRIPES, MARKINGS AND LEGENDS SHALL BE REFLECTORIZED WITH GLASS BEADS.

ADVANCE SPOTTING FOR THE LOCATION OF ALL TRAFFIC STRIPES, MARKINGS AND LEGENDS SHALL BE PERFORMED BY THE CONTRACTOR. INSTALLATION OF THE STRIPING SHALL NOT BE COMMENCED UNTIL THE LOCATION AND ALIGNMENT OF THE ADVANCE SPOTTING HAS BEEN APPROVED BY THE CITY ENGINEER.

EXCEPTIONS TO THE THERMOPLASTIC REQUIREMENT ARE AS FOLLOWS:

1. BIKE LANES AND BIKE LANE PAVEMENT MARKINGS SHALL CONTINUE TO BE PAINTED AS CURRENTLY SPECIFIED, UNLESS THERMOPLASTIC IS SKID RESISTANT.
2. RAISED PAVEMENT MARKERS (RPM'S) SHALL CONTINUE TO BE USED FOR LANE DELINEATION AS CURRENTLY SPECIFIED PER CALTRANS STANDARD SPECIFICATIONS.
3. CROSSWALKS SHALL CONSIST OF SOLID THERMOPLASTIC STRIPES. ANY "ZEBRA STRIPING" BETWEEN THE BORDERS SHALL BE PAINTED.
4. IF CONSTRUCTION IS PHASED PROJECT AND MARKINGS OF DELINEATIONS ARE TEMPORARY.



CITY OF SAN RAMON

DETAIL R-6

DRAWN BY: ELR

CHECKED BY: ENG'G., PS

DATE: 12/30/08

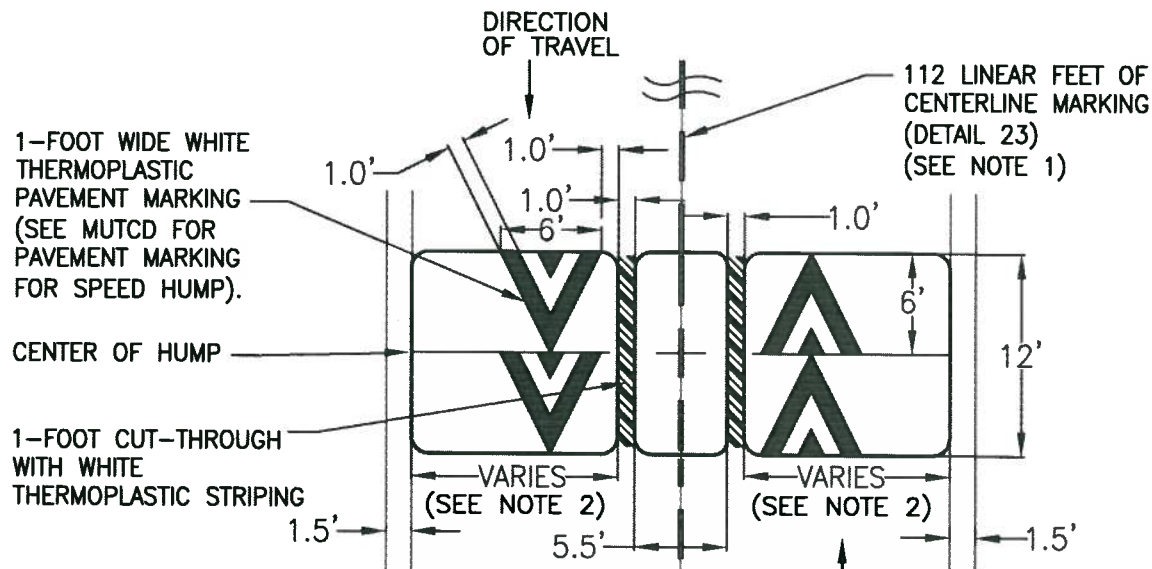
STANDARD DETAIL

STRIPING DETAIL

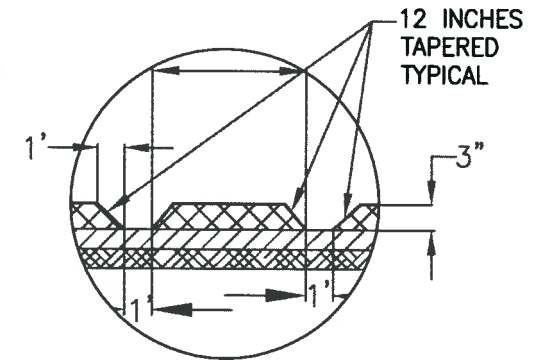
APPROVED BY: DATE: 6/15/09

[Signature]
CITY ENGINEER

SHT 1 of 1



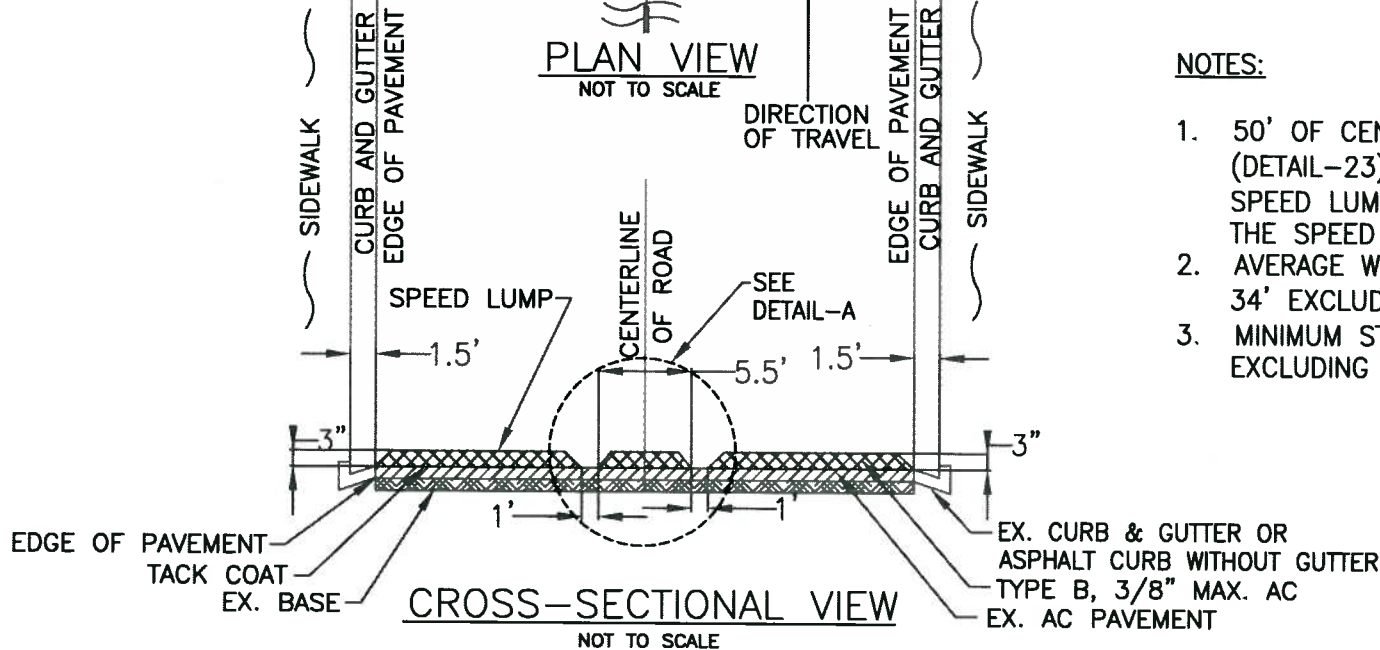
PLAN VIEW
NOT TO SCALE



DETAIL-A
NOT TO SCALE

NOTES:

1. 50' OF CENTERLINE MARKING (DETAIL-23) ON EACH SIDE OF THE SPEED LUMP AND 12' ON TOP OF THE SPEED LUMP.
2. AVERAGE WIDTH OF STREET IS LESS THAN 34' EXCLUDING THE CURB AND GUTTER.
3. MINIMUM STREET WIDTH OF 23.5' EXCLUDING THE CURB AND GUTTER.



CROSS-SECTIONAL VIEW
NOT TO SCALE



CITY OF SAN RAMON

DETAIL R-7a

DRAWN BY: ELR, DF

CHECKED BY: ENG'G., PUBL. SV.

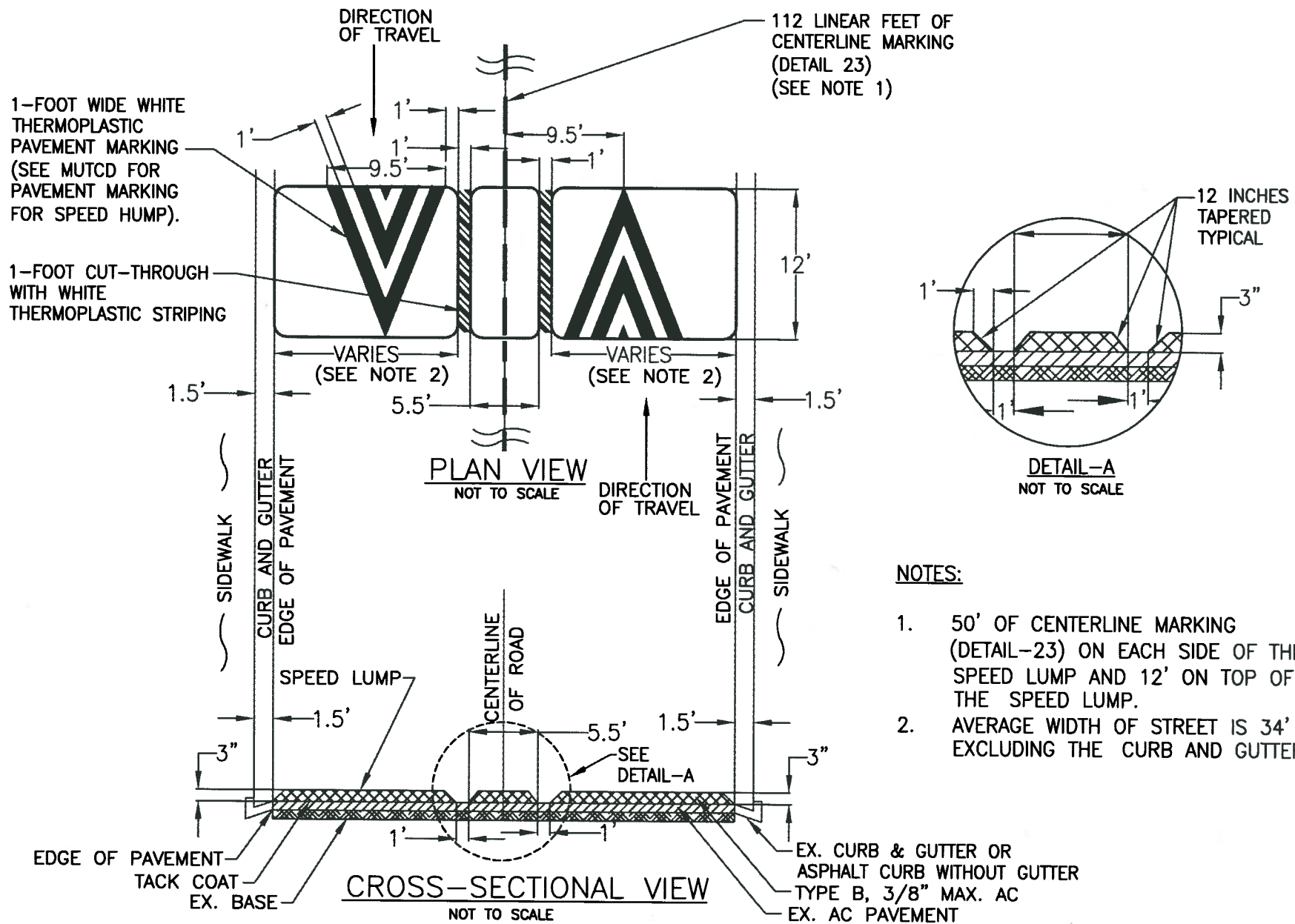
DATE: 05/20/11

STANDARD DETAIL

SPEED LUMP < 34' WIDE

APPROVED BY: DATE: *6/1/11*
Paul K. Bente
CITY ENGINEER

SHT 1 of 4



CITY OF SAN RAMON

DETAIL R-7b

DRAWN BY: ELR

CHECKED BY: ENG'G., PUBL. SV.

DATE: 05/20/11

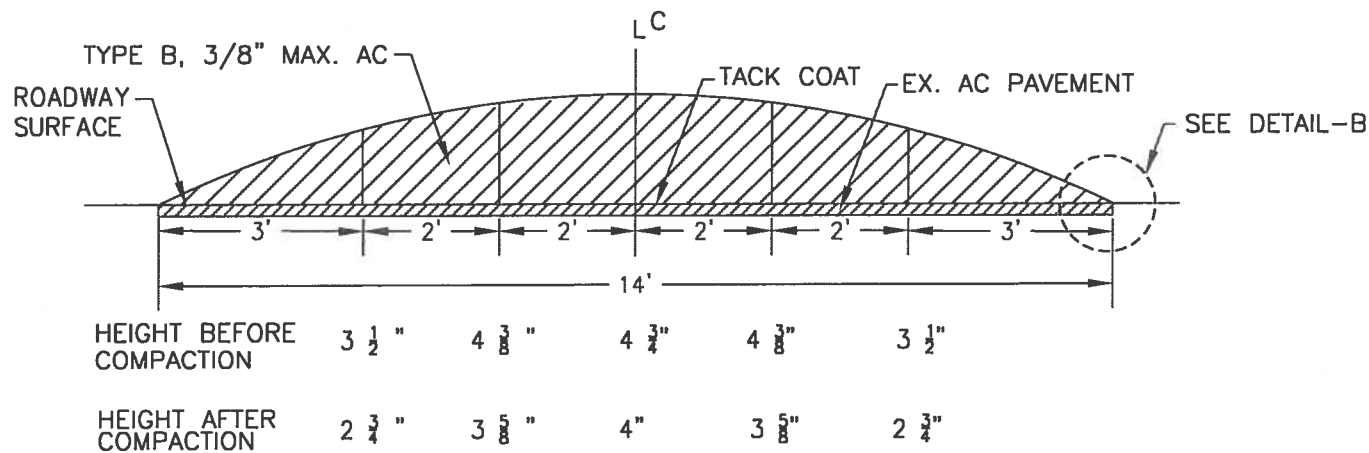
STANDARD DETAIL

SPEED LUMP > 34' WIDE

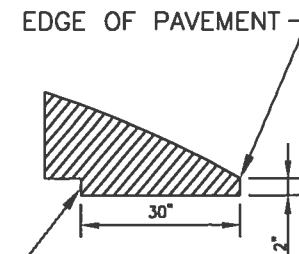
APPROVED BY: DATE: 6/1/11

Brian A. Barte
CITY ENGINEER

SHT 2 of 4



TYPICAL PROFILE
NOT TO SCALE



DETAIL-B
NOT TO SCALE

EXCAVATE AND FILL WITH ASPHALT 18" WIDE X 2" DEEP X 14' LONG PAVEMENT SECTION ALONG THE EDGE OF SPEED LUMP (BOTH SIDES)



SIGN ADJACENT TO SPEED LUMP
(IN BOTH DIRECTIONS)



ADVANCED WARNING SIGN
(IN BOTH DIRECTIONS)

NOTES:

1. USE HIP (HIGH INTENSITY PRISMATIC) GRADE SIGNS.
2. SIGNS SHALL BE PLACED ONTO THE NEXT ELECTROLIER POLE AT LEAST 200 FEET IN ADVANCE OF THE SPEED LUMP. IF NO ELECTROLIER POLE IS AVAILABLE USE THE CITY OF SAN RAMON STANDARD DETAILS FOR THE INSTALLATION OF SIGN POSTS (DETAIL R-5).
3. SEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND MUTCD CALIFORNIA SUPPLEMENT FOR SIGN DETAILS.



CITY OF SAN RAMON

DETAIL R-7c

DRAWN BY: ELR

CHECKED BY: ENG'G., PUBL.SV.

DATE: June 2016

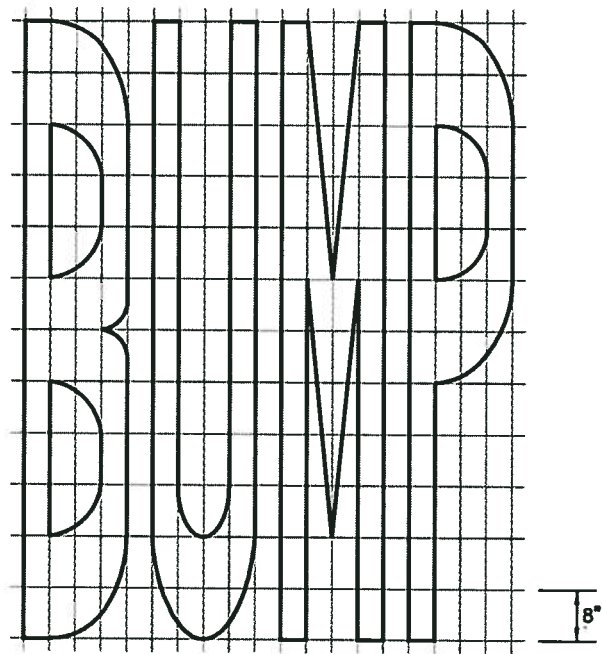
FOR AMADOR
RANCHO LOOP DETAIL

SPEED LUMP

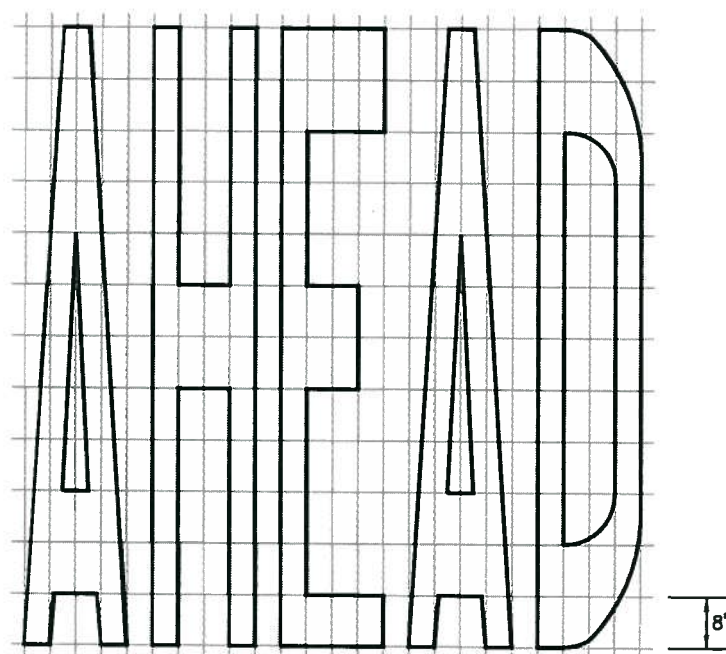
APPROVED BY: DATE: 6-27-16

Brian R. Bernstein
CITY ENGINEER

SHT 3 of 4



SCALE = 1 : 30



SCALE = 1 : 30



NOTES:

1. ALL LETTERS AND NUMERALS SHALL BE THERMOPLASTIC IN CONFORMANCE WITH THE STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS APPROVED BY DEPARTMENT OF TRANSPORTATION.
2. THE DESIGN DETAILS FOR VARIOUS WORDS ARE ALSO SHOWN IN DEPARTMENT OF TRANSPORTATION STANDARD PLANS.
3. "BUMP AHEAD" LEGENDS SHALL BE PLACED IN BOTH DIRECTIONS OF TRAFFIC AT 100 FEET IN ADVANCE OF THE SPEED LUMP.



CITY OF SAN RAMON

DETAIL R-7d

DRAWN BY: ELR

CHECKED BY: ENG'G., PUBL. SV.

DATE: 05/20/11

STANDARD DETAIL

SPEED LUMP

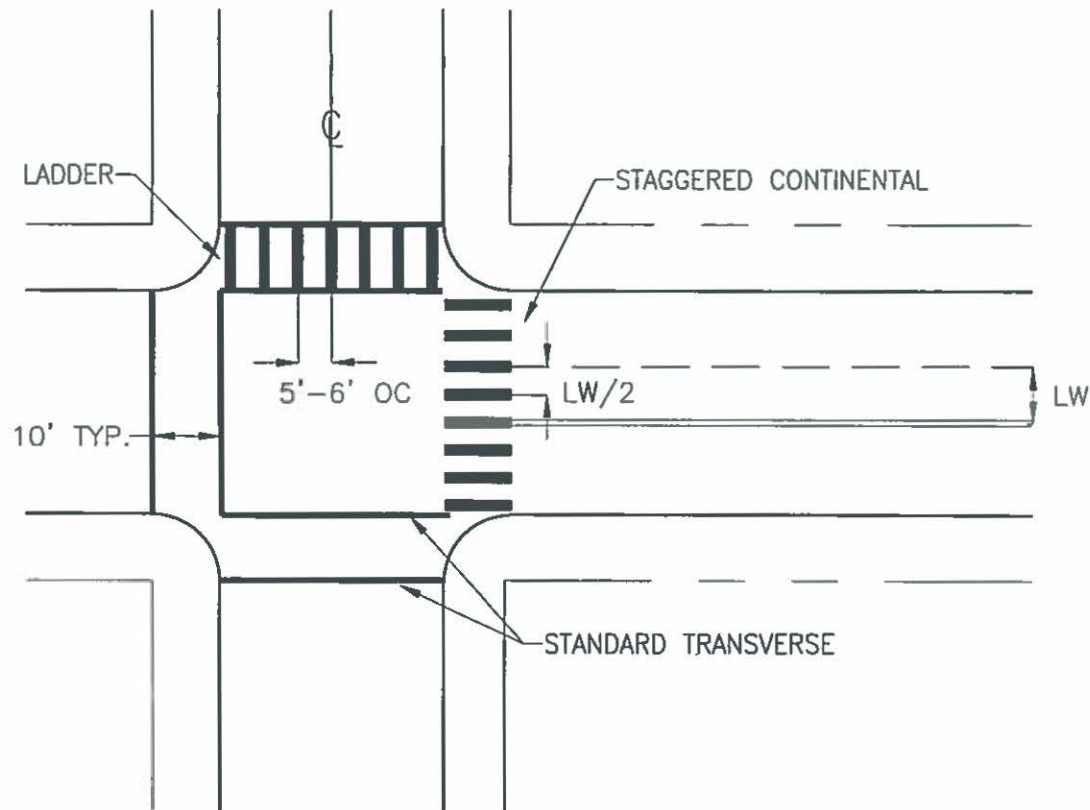
APPROVED BY:

DATE: 6/1/11

Brian R. Bounstein

CITY ENGINEER

SHT 4 of 4



NOTES:

1. ALL CROSSWALKS SHALL BE WHITE EXCEPT DESIGNATED SCHOOL CROSSINGS, WHICH SHALL BE YELLOW.
2. TRANSVERSE LINES ARE 12" WIDE UNLESS OTHERWISE NOTED.
3. STAGGERED CONTINENTAL AND LADDER MARKINGS SHALL BE 24" WIDE UNLESS OTHERWISE NOTED.
4. STAGGERED CONTINENTAL AND LADDER MARKINGS SHOULD BE CENTERED TO THE LANE LINES, OFFSET 5' TO 6' OC TO AVOID WHEEL PATH AND SHALL BE RETROREFLECTIVE AND PARALLEL TO THE LANE.
5. ALL CROSSWALKS SHALL BE THERMOPLASTIC, NON-SKID AND RETROREFLECTIVE.
6. LW = LANE WIDTH
7. OC = ON CENTER



CITY OF SAN RAMON

DETAIL R-8

DRAWN BY: RR

CHECKED BY: DF

DATE: APRIL 2020

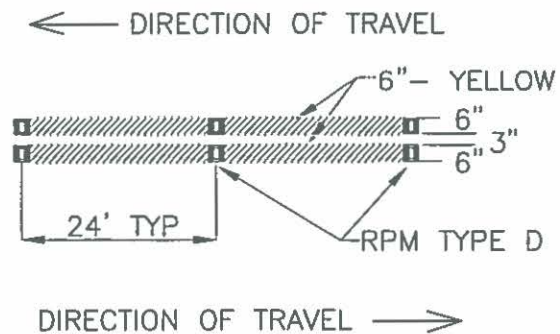
STANDARD DETAIL

CROSSWALK STRIPING

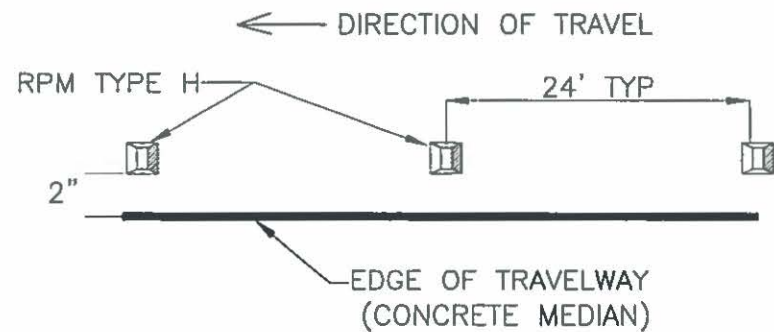
APPROVED BY: DATE: 12-2-21

Ben Bath
CITY ENGINEER

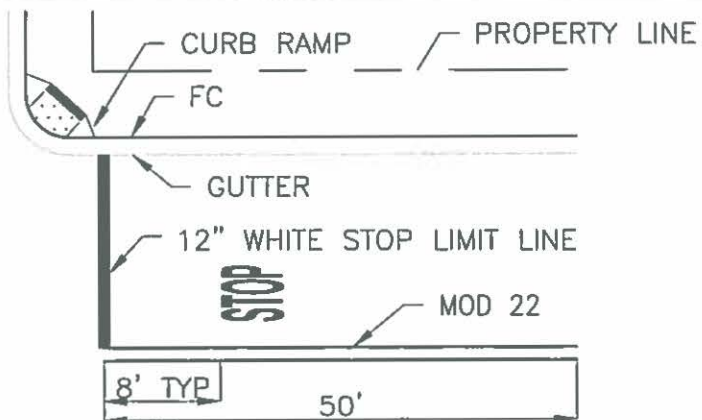
SHT 1 of 1



MODIFIED DETAIL 22
(MOD 22)



MODIFIED DETAIL 26
(MOD 26)



STOP LIMIT LINE SHALL NOT ENCROACH ONTO PRESUMED CROSSWALK.

STOP LIMIT LINE
PLACEMENT

NOTE:

SEE CALTRANS STANDARD PLANS A20-A24 FOR RAISED PAVEMENT MARKER (RPM) DETAILS.



CITY OF SAN RAMON

DETAIL R-9

DRAWN BY: RR

CHECKED BY: DF

DATE: APRIL 2020

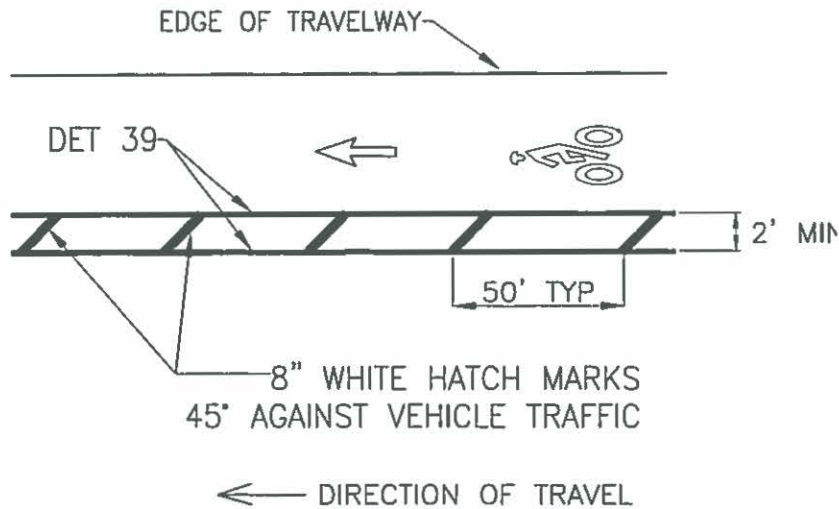
STANDARD DETAIL

TRAFFIC STRIPES

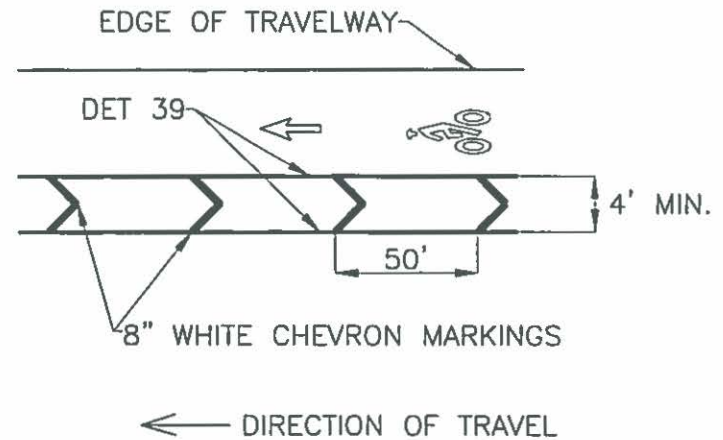
APPROVED BY: DATE: 12-2-21

[Signature]
CITY ENGINEER

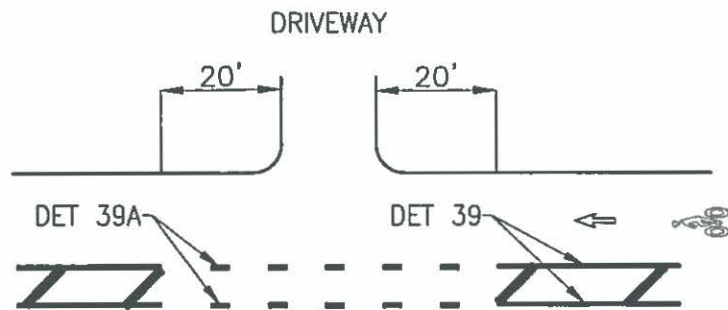
SHT 1 of 1



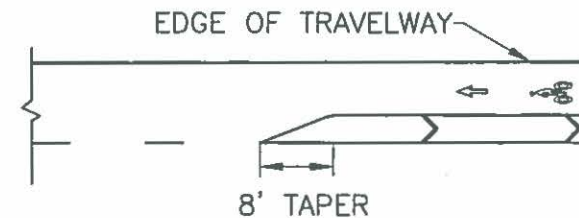
BIKE LANE
BUFFER < 4' WIDE



BIKE LANE
BUFFER ≥ 4' WIDE



BIKE LANE BUFFER
DRIVEWAY ≥ 24'



BIKE LANE
BUFFER TERMINUS



CITY OF SAN RAMON

DETAIL R-11

DRAWN BY: RR

CHECKED BY: DF

DATE: APRIL 2020

STANDARD DETAIL

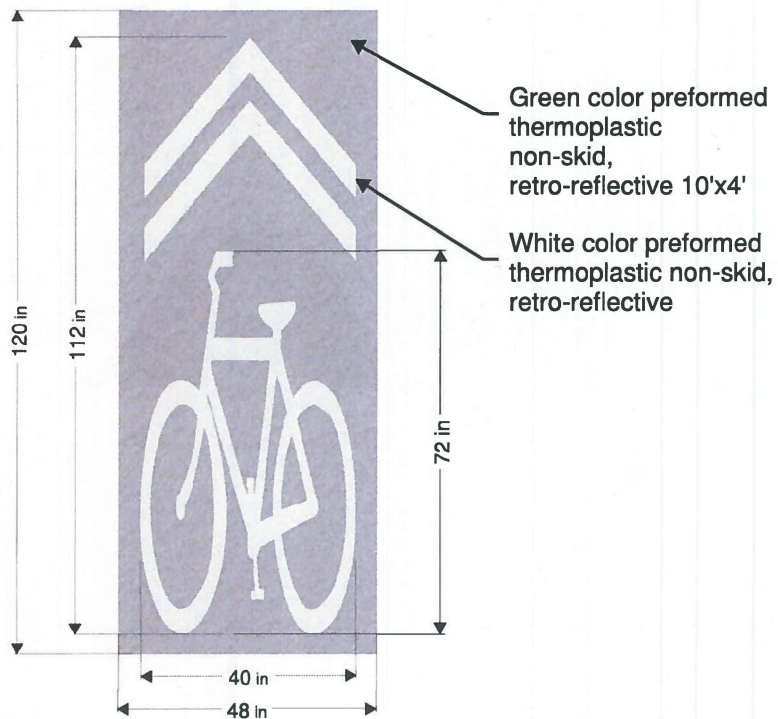
BUFFERED BIKE LANE
STRIPING DETAILS

APPROVED BY: DATE: 12-2-24

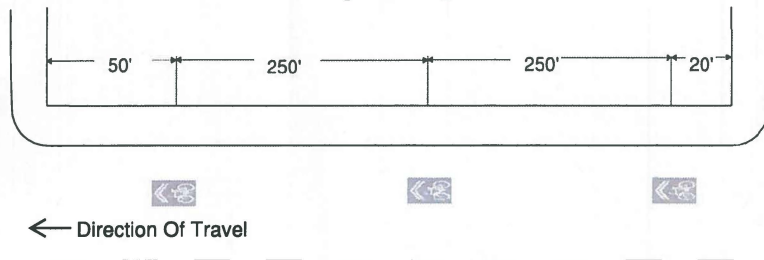
R. R. B. Jr.
CITY ENGINEER

SHT 1 of 1

Green Back Shared Lane Marking (Sharrow)

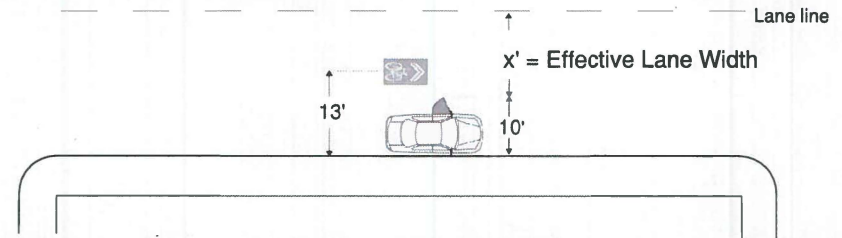


Spacing

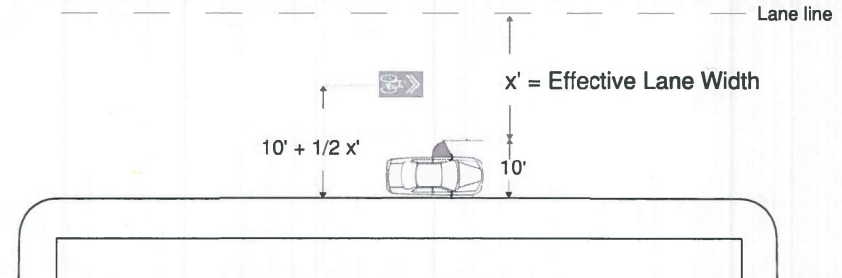


Lateral Placement

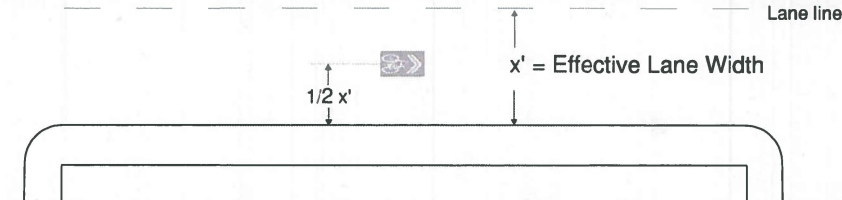
1) Placement When Effective Lane Width $\geq 14'$, With On-street Parking



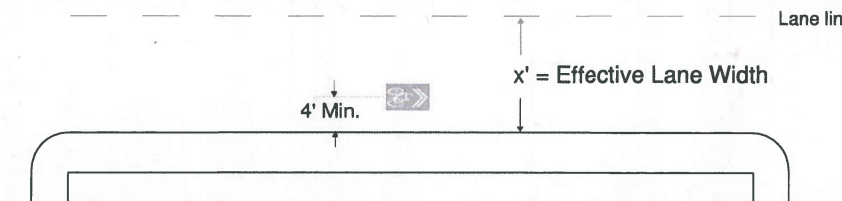
2) Placement When Effective Lane Width $< 14'$, With On-street Parking



3) Placement When Effective Lane Width $< 14'$, Without On-street Parking



4) Placement When Effective Lane Width $\geq 14'$, Without On-street Parking



CITY OF SAN RAMON

DETAIL R-12

DRAWN BY: RR

CHECKED BY: DF

DATE: 03/2021

STANDARD DETAIL

GREEN BACK SHARED LANE MARKING

APPROVED BY: DATE: 12-2-21

[Signature]
CITY ENGINEER

SHT 1 of 1