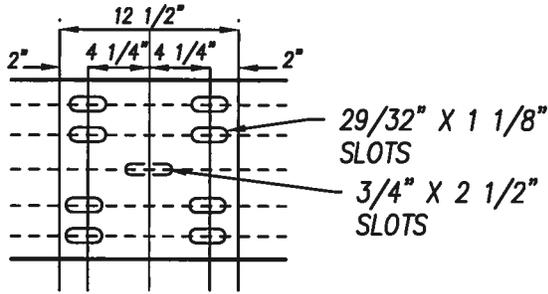


TYP. POST SPACING 12'-6" O.C.

**NOTES**

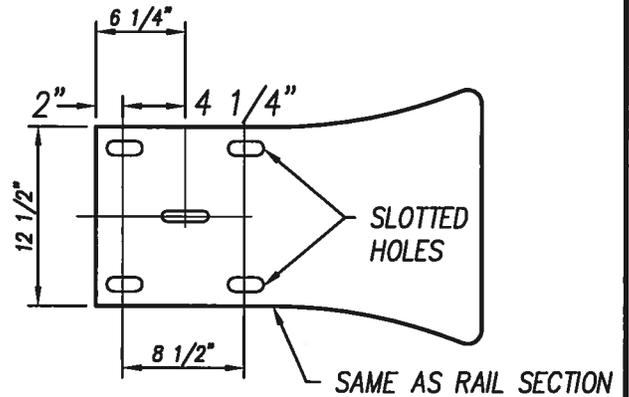
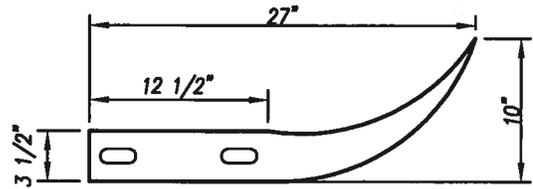
1. GUARD RAIL ELEMENT MAY BE EITHER STEEL OR ALUMINUM.
2. STEEL RAIL SHALL BE GALVANIZED PER ASTM DESIGNATION A-123.
3. STEEL RAIL THICKNESS SHALL BE MIN. 12 GAUGE.
4. ALUMINUM RAIL THICKNESS SHALL BE MIN. 0.105 IN.
5. ALL HOLES IN WOOD POSTS AND BLOCKS SHALL BE 3/4" DIAMETER.
6. ALL HOLES IN STEEL POSTS AND BLOCKS SHALL BE 13/16" DIAM. MAXIMUM.

<b>CITY OF RANCHO MIRAGE</b>		<b>STANDARD DETAIL 600 SHT. 1 OF 2</b>
<b>REVISIONS</b>	<b>BARRICADE</b>	
	APPROVED BY: CITY ENGINEER	DATE: 5/31/61

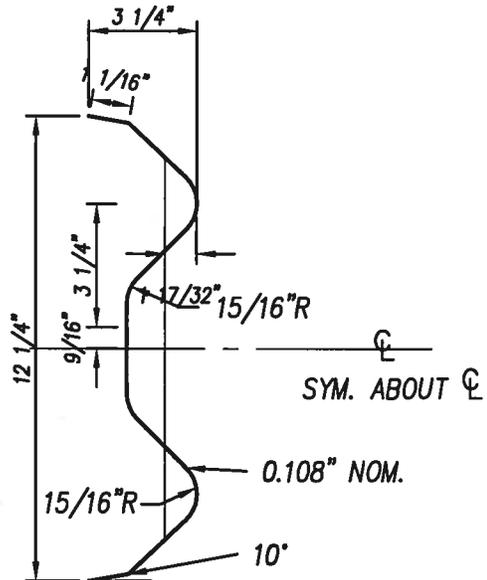


**SPLICE DETAIL**

5/8"x1/4" BUTTON HEAD OVAL SHOULDER BOLTS WITH 1 1/4" RECESSED HEX NUTS. TOTAL: 8 PER SPLICE AND 4 PER TERMINAL SECTION.



**TERMINAL SECTION**



**SECTION THRU W-BEAM RAIL ELEMENT**

**CITY OF RANCHO MIRAGE**

**STANDARD**

REVISIONS

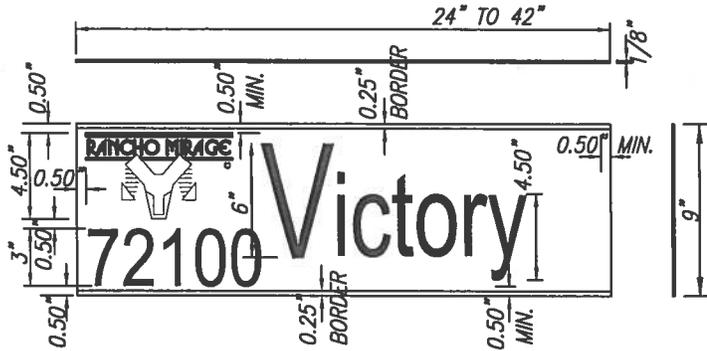
**'BARRICADE DETAILS**

\* 7/5/2012

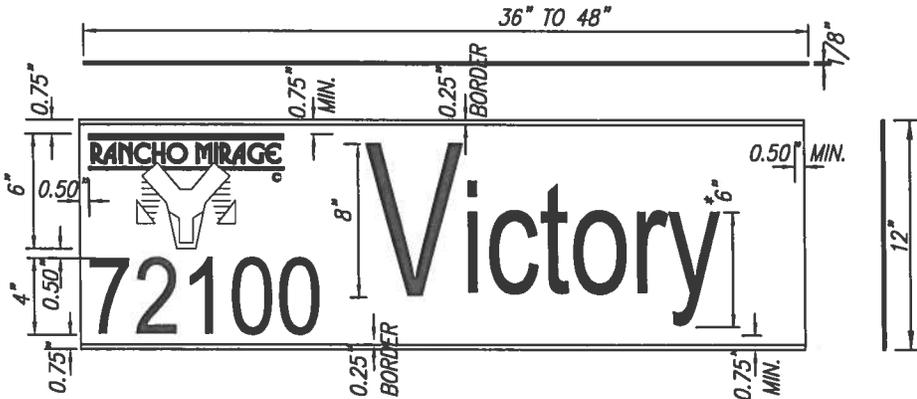
**DETAIL**

*William Gilman* 7/12/12  
APPROVED BY: CITY ENGINEER DATE

**600**  
SHT. 2 OF 2



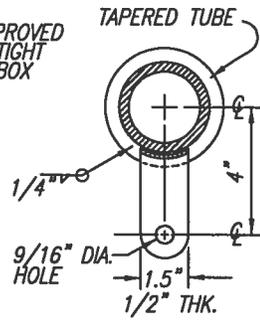
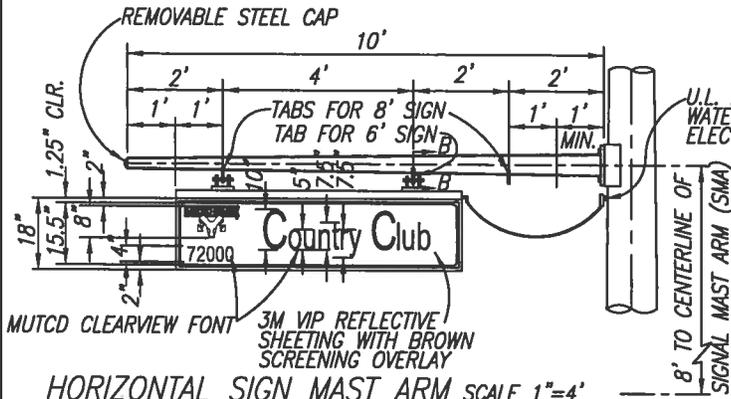
**9" BLADE AND 6" FONT FOR SIGNS AT MINOR STREET INTERSECTIONS**



**12" BLADE AND 8" FONT FOR SIGNS AT ARTERIAL INTERSECTIONS**

1. THE STREET NAME SIGN SHALL BE EITHER A 9" OR 12" FLAT BLADE CONSTRUCTED OF 1/8" THICK ANODIZED ALUMINUM. THE LENGTH OF THE BLADE SHALL BE 36" TO 48". THE LENGTH OF THE BLADE WILL BE DETERMINED BY THE NUMBER OF CHARACTERS IN THE STREET NAME. THE SUPPLIER SHALL BE RESPONSIBLE FOR DETERMINING THE AMOUNT OF EACH LENGTH NEEDED BASED ON THE INDIVIDUAL STREET NAMES. 8" HIGH FONT AND 12" BLADES SHALL BE USED ON MULTI-LANE STREETS. 6" HIGH FONT AND 9" BLADES SHALL BE USED WHERE BOTH STREETS ARE ONLY ONE LANE EACH WAY.
2. THE ALUMINUM FOR THE BLADES SHALL BE HIGH TENSILE STRENGTH 6063T5 ALLOY.
3. EACH SIGN SHALL BE PRINTED ON BOTH SIDES AND INCLUDE THE STREET NAME, 5-DIGIT BLOCK NUMBER CITY LOGO, AND UPPER AND LOWER BORDER STRIPS. THESE ITEMS SHALL BE WHITE IN COLOR ON A BROWN BACKGROUND.
4. ALL LETTER AND NUMBERS SHALL BE WHITE, HIGH-INTENSITY GRADE, 3M SCOTCHLITE HEAT-ACTIVATED REFLECTIVE SHEETING.
5. THE CITY LOGO SHALL BE WHITE, HIGH-INTENSITY GRADE, 3M SCOTCHLITE HEAT-ACTIVATED REFLECTIVE SHEETING, PRODUCED FROM DIES PREPARED BY THE SUPPLIER SPECIFICALLY FOR THESE SIGNS.
6. UPPER AND LOWER BORDER STRIPS SHALL BE 1/4" STRIPS OF WHITE, HIGH-INTENSITY GRADE, 3M SCOTCHLITE HEAT ACTIVATED REFLECTIVE SHEETING.
7. THE SIGN BACKGROUND SHALL BE BROWN, HIGH-INTENSITY GRADE, 3M SCOTCHLITE HEAT-ACTIVATED REFLECTIVE SHEETING.

<b>CITY OF RANCHO MIRAGE</b>		<b>STANDARD DETAIL 601</b>
<b>REVISIONS</b>	<b>STREET NAME SIGN</b>	
8/16/2016		
	8/25/16 APPROVED BY: CITY ENGINEER DATE	

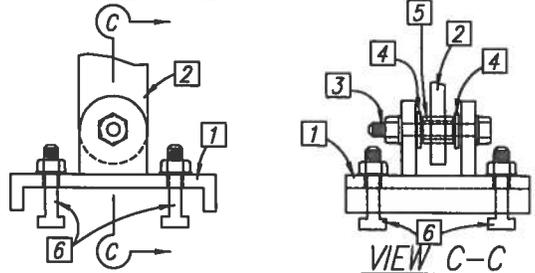


- NOTES:
1. MATERIAL: STEEL OF 48,000 PSI MIN. YIELD AFTER FABRICATION, GALVANIZED.
  2. PAINTED FINISH PER RANCHO MIRAGE PAINT SPECIFICATIONS.
  3. ALL WELDS SHALL CONFORM TO AWS D1.1 SPECIFICATIONS.
  4. BASE PLATES AND FLANGES SHALL BE PER ASTM A-35 & A-36 STEEL

HORIZONTAL SIGN MAST ARM SCALE 1"=4'

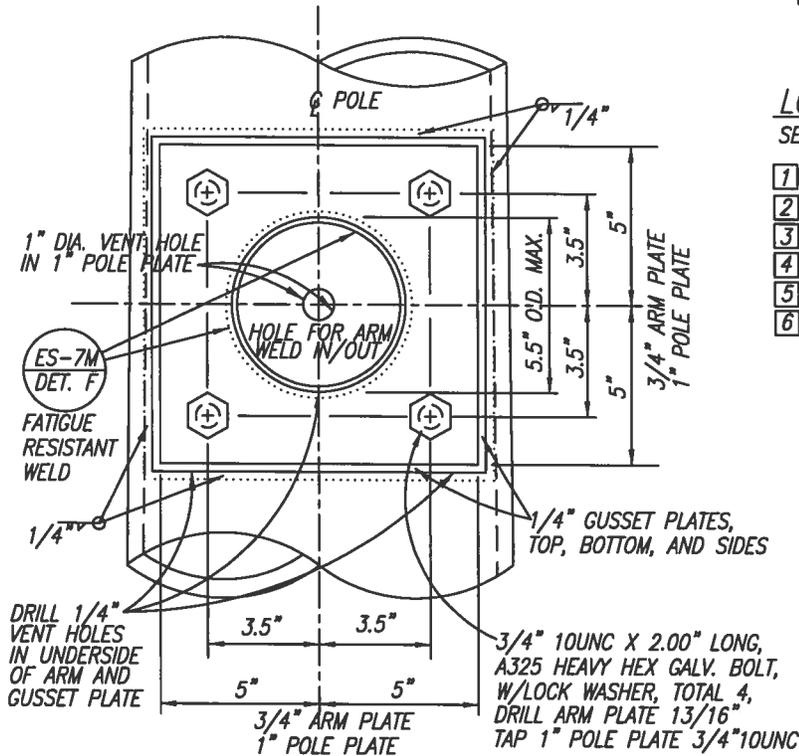
1. FOR INTERNALLY ILLUMINATED STREET NAME SIGN, MOUNTING HARDWARE, AND ELECTRICAL DETAILS, SEE CALTRANS STD. ES-70, AND SPECIAL PROVISIONS
2. MAST ARM SHALL BE ROUND TAPERED STEEL TUBE, 0.1793", WITH MAXIMUM TAPER OF 0.14" PER FOOT AND 5.25"-5.50" O.D. AT POLE.
3. IN LIEU OF THE TORQUE REQUIREMENTS FOR BOLTS, THEY SHALL BE TIGHTENED BY THE TURN-OF-NUT METHOD, 1/3 TURN FROM SNUG TIGHT CONDITION.
4. CALTRANS STANDARD DRAWING ES-7M, DETAIL "F", FATIGUE RESISTANT WELD, IS REQUIRED AT IISNS ARM PLATE AND POLE BASE PLATE.

SECTION B-B SCALE 1"=6"  
HANGER TAB



LOWER SIGN MOUNT ASSEMBLY NOT TO SCALE  
SEE CALTRANS STANDARD ES-70 FOR TYPE "A" SIGN DETAILS

- 1 LOWER MOUNTING ASSEMBLY, WITH GASKET.
- 2 UPPER MOUNTING ASSEMBLY (HANGER TAB).
- 3 BOLT, 1/2", STAINLESS STEEL, WITH SELF-LOCKING NUT.
- 4 FLAT WASHER, STAINLESS STEEL.
- 5 BUSHING, BRONZE.
- 6 MOUNTING BOLT, 1/4" MINIMUM, WITH NUT AND LOCKWASHER, OR SELF-LOCKING NUT, AND COTTER KEY.



SIGN MAST ARM MOUNTING PLATE SCALE 1"=6"

SEE SHEET 2 FOR POLE MOUNTING BRACKET DETAILS  
NEW POLES USE WELDED MOUNTING BRACKETS  
EXISTING POLES ARE RETROFIT WITH CLAMP-ON MOUNTING BRACKETS

SPECIFICATIONS

DESIGN: AASHTO SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF STRUCTURAL SUPPORTS AND HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, DATED 2004 (4TH EDITION)

WIND LOADINGS: 129 KM/H (100MPH) AASHTO

UNIT STRESSES: STRUCTURAL STEEL

Fy = 331 MPa (TAPERED SHEET STEEL)

Fy = 248 MPa UNLESS NOTED OTHERWISE

CONSTRUCTION: STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS, OR AS SHOWN HERE

PAINT: (SHOP-APPLIED, AFTER GALVANIZING)

EXTERIOR: 2.5MIL DFT N69 HI-BUILD EPOXOLINE, THEN TWO COATS TNEMEC 1075 ACRYLIC POLYURETHANE ENAMEL (TNEMEC 84BR WEATHERED BARK) AT 2.5MIL MINIMUM DFT ON EACH COAT.

CITY OF RANCHO MIRAGE

STANDARD  
DETAIL

REVISIONS

11/16/2010

8/16/2016

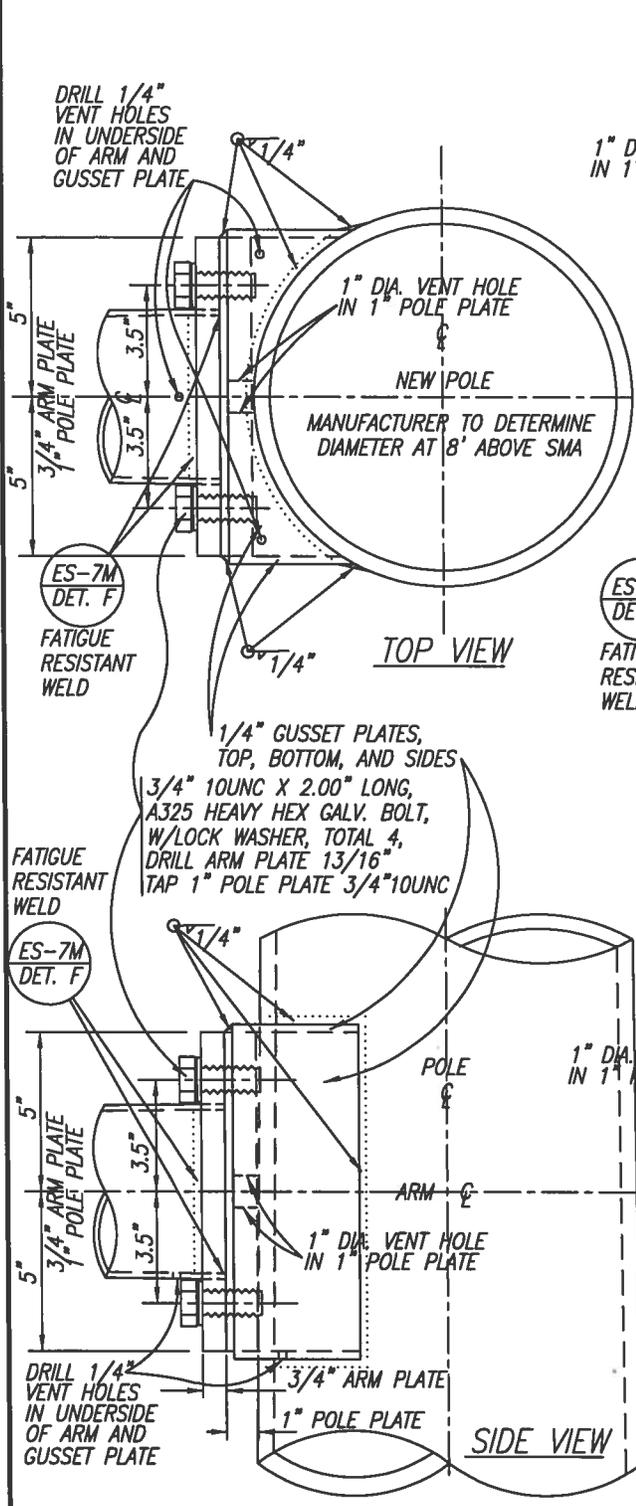
INTERNALLY ILLUMINATED  
STREET NAME SIGN (IISNS)

*William Rivas* 8/25/16

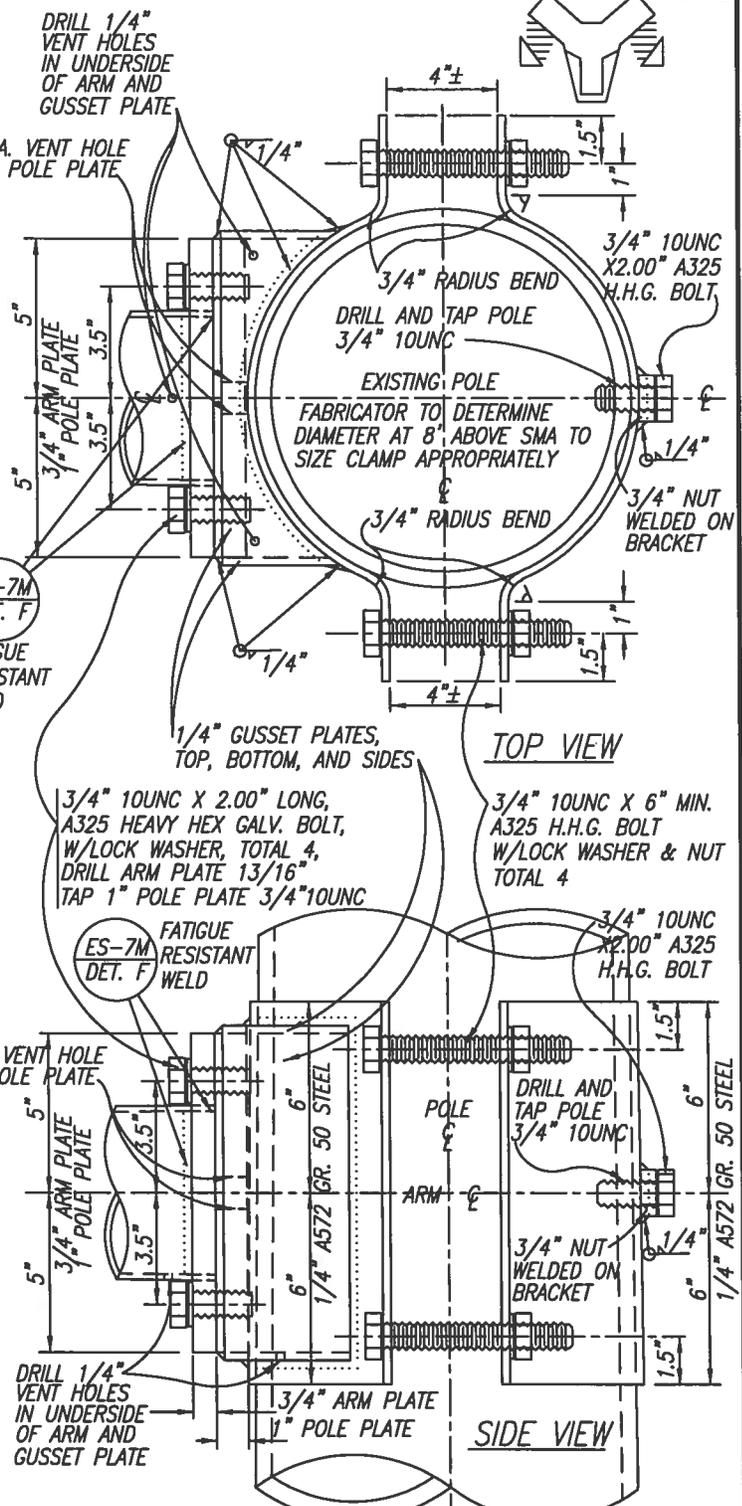
APPROVED BY: CITY ENGINEER DATE

601B

SHEET 1 OF 2



WELDED MOUNTING BRACKET SCALE 1"=6"



CLAMP-ON MOUNTING BRACKET SCALE 1"=6"

CITY OF RANCHO MIRAGE

REVISIONS

11/16/2010

8/16/2016

INTERNALLY ILLUMINATED STREET NAME SIGN (IISNS)

*William Cruz*

8/25/16

APPROVED BY: CITY ENGINEER DATE

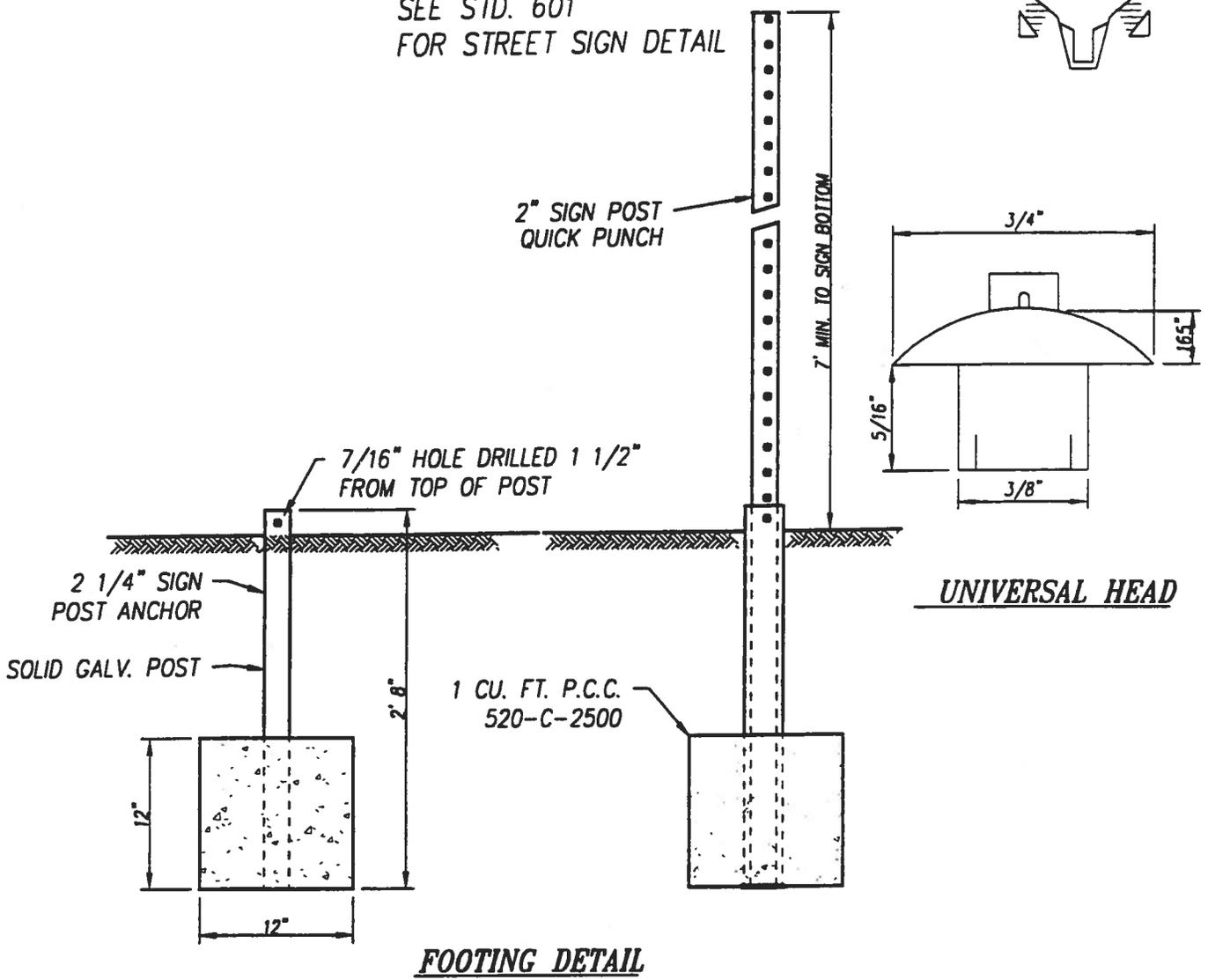
STANDARD DETAIL

601B

SHEET 2 OF 2

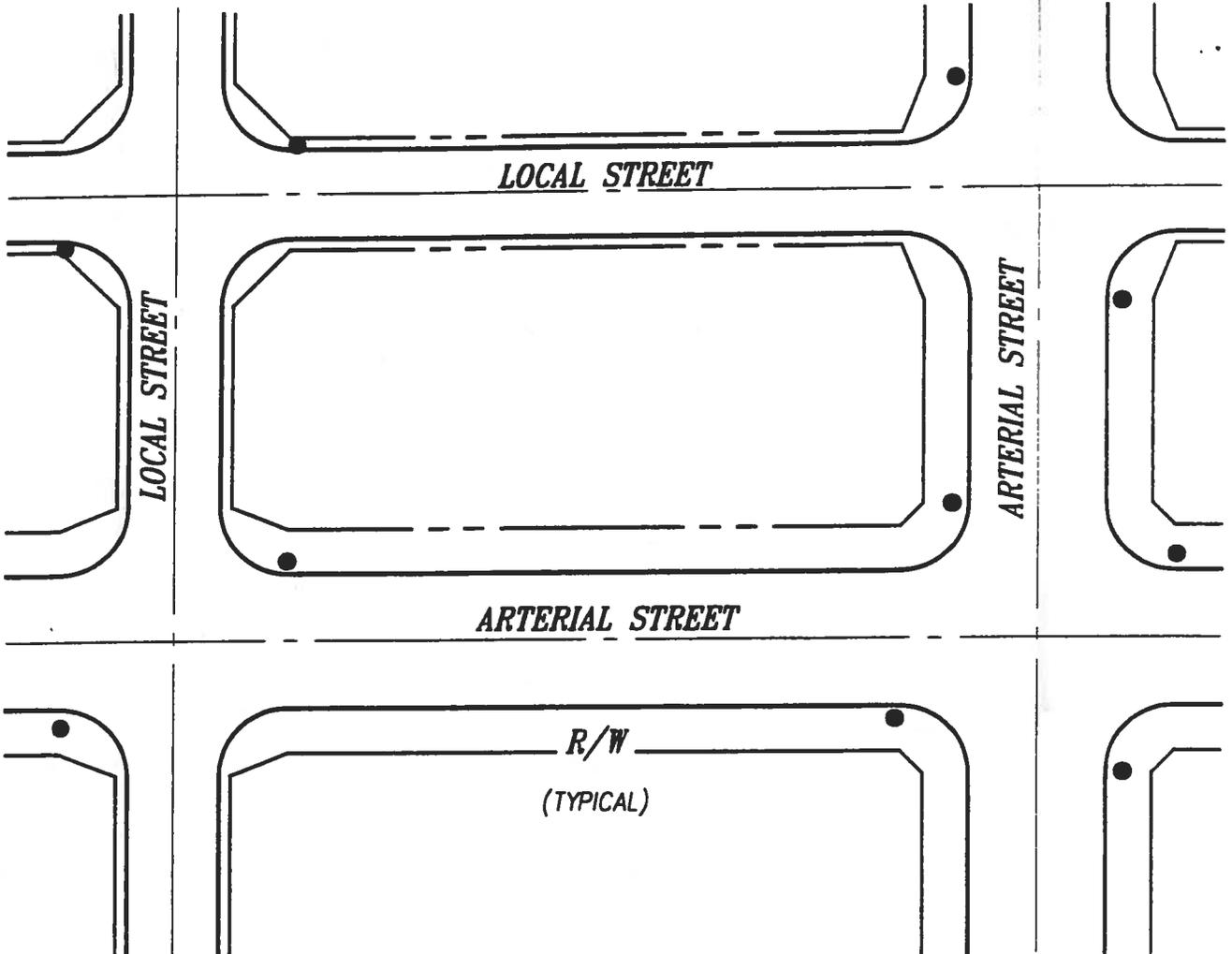


SEE STD. 601  
FOR STREET SIGN DETAIL



1. Place sign post anchor into ground approximately 2'-6" depending on local soil conditions. Drill one 7-16" hole approximately 1 1/2" from the top of the anchor post.
2. Insert sign post and rivet in place with two 3/8" Universal Head Drive Rivets, one placed facing traffic and one perpendicular to traffic.
3. All posts to be electrostatically powder coated with City approved brown coating.

<b>CITY OF RANCHO MIRAGE</b>		<b>STANDARD DETAIL 602</b>
REVISIONS	<b>SIGN POST INSTALLATION</b>	
APPROVED BY: <i>William G. ...</i> 5/31/01      CITY ENGINEER      DATE		



**LEGEND**

- = TWO SIGNS ON SINGLE POST
- FOUR SIGNS TO BE PLACED ON INTERSECTING ARTERIAL STREETS
- TWO SIGNS AT INTERSECTING ARTERIAL AND LOCAL STREET (ON ARTERIAL STREETS)
- TWO SIGNS AT INTERSECTING LOCAL STREETS (ON LOCAL WITH HEAVIER TRAFFIC)

**CITY OF RANCHO MIRAGE**

**STANDARD**

REVISIONS

**STREET SIGN LOCATION**

**DETAIL**

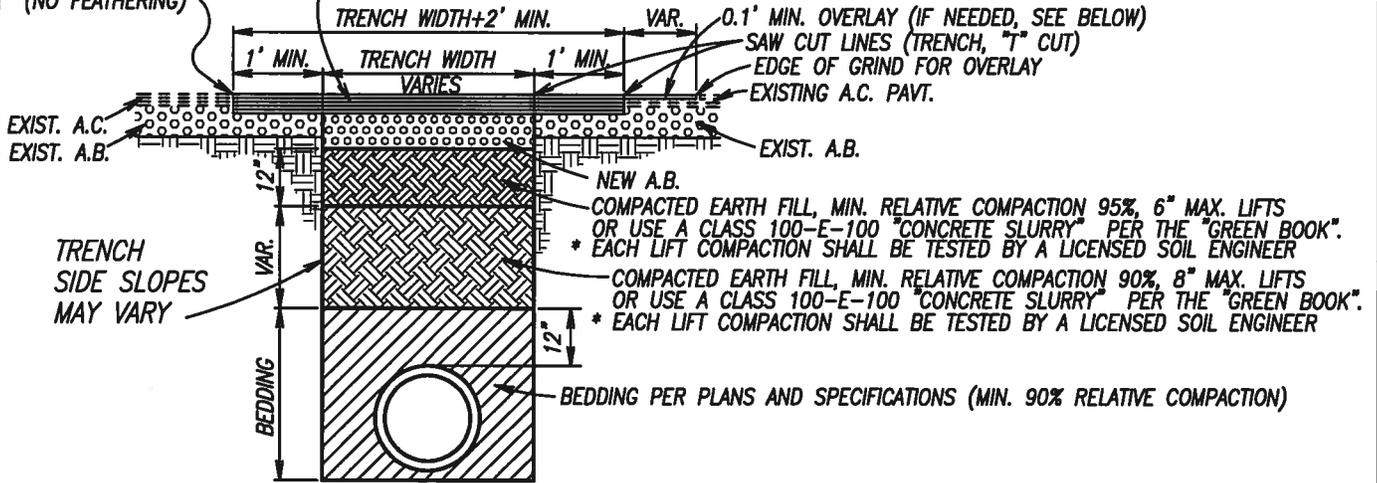
APPROVED BY: *[Signature]* DATE: 5/31/01

**603**



**RESIDENTIAL STREETS: 4" A.C. OVER 4" A.B.**  
**ALL OTHER STREETS: 5" A.C. OVER 10" A.B.**

JOIN EXISTING A.C. PAVT. WITH SMOOTH BUTT JOINT (NO FEATHERING)



**"T-TRENCH" DETAIL**  
NOT TO SCALE

**TRANSVERSE TRENCH CUTS**

- 0" TO 12" WIDE - REPAIR TRENCH WIDTH ONLY (NO "T-TRENCH")
- 12" TO 24" WIDE - REPAIR TRENCH WIDTH PLUS ADDITIONAL 1' "T" ON BOTH SIDES
- >24" WIDE - REPAIR TRENCH WIDTH PLUS ADDITIONAL 1' "T" ON BOTH SIDES PLUS GRIND/OVERLAY 0.1' MIN. THICK FOR AN ADDITIONAL 3' ON BOTH SIDES.

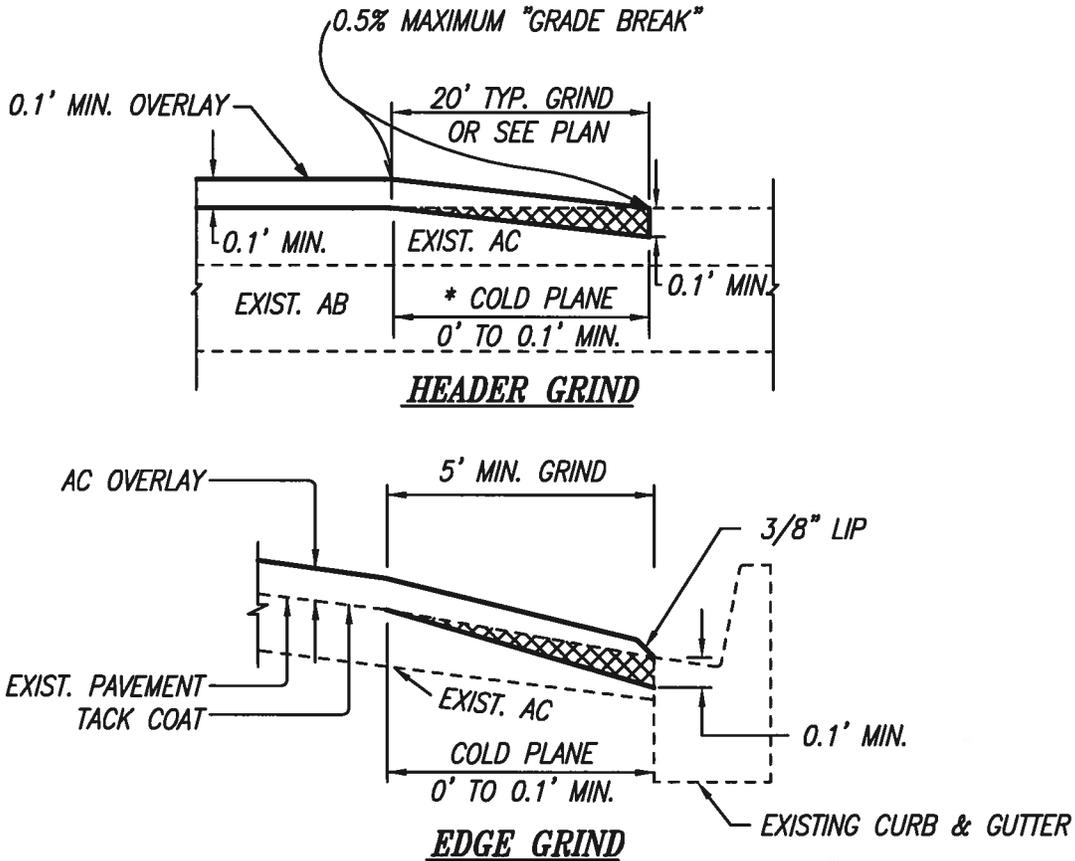
**LONGITUDINAL TRENCH CUTS IN DRIVING LANES**

- 0" TO 12" WIDE - REPAIR TRENCH WIDTH ONLY (NO "T-TRENCH") PLUS 0.1 GRIND AND OVERLAY FROM FROM LANE LINE TO LANE LINE
- 12" TO 24" WIDE - REPAIR TRENCH WIDTH PLUS ADDITIONAL 1' "T" ON BOTH SIDES PLUS 0.1' GRIND/OVERLAY FROM LANE LINE TO LANE LINE
- >24" WIDE - REPAIR TRENCH WIDTH PLUS ADDITIONAL 1' "T" ON BOTH SIDES PLUS GRIND/OVERLAY 0.1' MIN. FROM LANE LINE TO LANE LINE.

**SHOULDER TRENCH CUTS**

- AT EDGE OF GUTTER - REPAIR TRENCH WIDTH ONLY (NO "T-TRENCH")
- \* OFF EDGE OF GUTTER - NO LESS THAN 4' "FLOATER" BETWEEN TRENCH AND GUTTER SLURRY OR FOG SEAL MAY BE REQUIRED UNLESS THE ROADWAY IS A DESIGNATED BIKE ROUTE, WHICH WOULD REQUIRE A 0.1' THICK GRIND/OVERLAY FROM EDGE OF GUTTER TO LANE LINE.

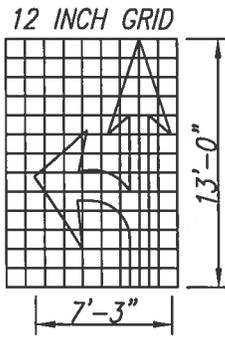
<b>CITY OF RANCHO MIRAGE</b>		<b>STANDARD DETAIL 604</b>
REVISIONS	<b>UTILITY TRENCH PAVEMENT REPLACEMENT</b>	
* 7/5/2012	<i>[Signature]</i> 7/12/12	
	APPROVED BY:      CITY ENGINEER      DATE	



**COLD PLANING DETAILS**

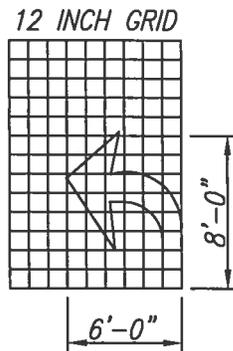
NOT TO SCALE

<b>CITY OF RANCHO MIRAGE</b>		<b>STANDARD DETAIL 607</b>
REVISIONS	<b>COLD PLANE DETAIL</b>	
* 7/5/2012		
	<i>[Signature]</i> 2/12/12	
	APPROVED BY: CITY ENGINEER DATE	



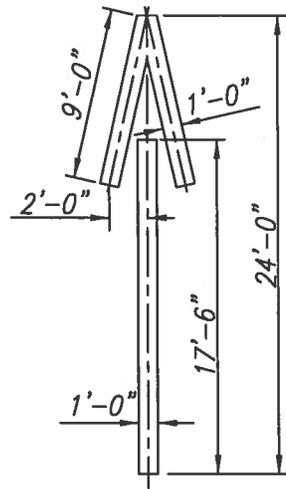
**TYPE VII (L) ARROW  
(CALTRANS A24A)**

A=27 SQ. FT.  
(FOR TYPE VII (R) ARROW  
USE MIRROR IMAGE)

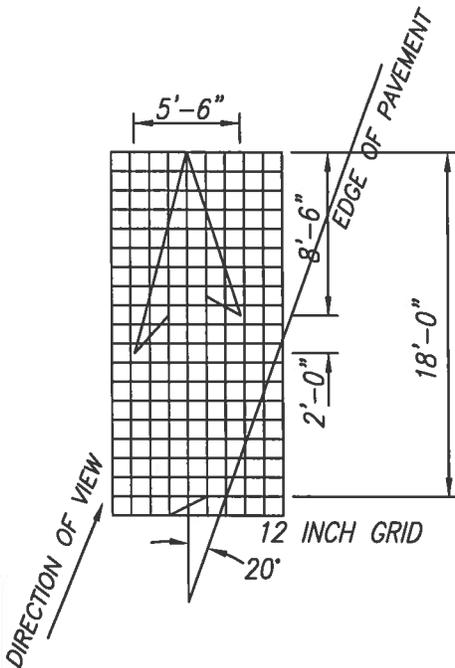


**TYPE IV (L) ARROW  
(CALTRANS A24A)**

A=15 SQ. FT.  
(FOR TYPE IV (R) ARROW,  
USE MIRROR IMAGE)



**TYPE V ARROW  
(CALTRANS A24A)**  
A=33 SQ. FT.



**TYPE VI ARROW  
(CALTRANS A24A)**

A=42 SQ. FT.  
RIGHT LANE DROP ARROW  
(FOR LEFT LANE, USE MIRROR IMAGE)

THE FOLLOWING COMMON WORD MARKINGS  
MAY ALSO BE NEEDED. PLAN A-24  
OF THE CALTRANS STANDARD PLANS  
SHALL BE FOLLOWED.

- SCHOOL
- AHEAD
- SIGNAL
- YIELD
- SLOW
- XING
- STOP
- LANE
- BIKE
- DIP
- PED

\* NOTE: THESE ARE INTENDED TO BE EQUIVALENT TO CURRENT CALTRANS STANDARDS.

**CITY OF RANCHO MIRAGE**

STANDARD

REVISIONS

**PAVEMENT MARKINGS**

DETAIL

10/26/2001

7/5/2012

8/16/2016

*William G. Cross* 8/25/16  
APPROVED BY: CITY ENGINEER DATE

**608**

SHT. 1 OF 2



Lane Striping

Caltrans Std. Plan

Crosswalk and Limit Lines .....	1' white (or yellow) line .....	A24E
Centerlines (yellow) <45 MPH .....	Detail 2 .....	A20A
Centerline (yellow) >45 MPH .....	Detail 6 .....	A20A
Lane Lines (white) <45 MPH .....	Detail 9 .....	A20A
Lane Lines (white) >45 MPH .....	Detail 12 .....	A20A
No Passing Zones One Direction (yellow) <45 MPH ..	Detail 16 .....	A20A
No Passing Zones One Direction (yellow) >45 MPH ..	Detail 19 .....	A20A
No Passing Zones Two Directions (yellow) .....	Detail 22 .....	A20A
Left Edge Line at Raised Median Islands (yellow) ....	Detail 24 .....	A20B
Right Edge Line (white) .....	Detail 27B .....	A20B
Painted Median Islands (yellow) .....	Detail 29 .....	A20B
Two-Way Left Turn Lanes (yellow) .....	Detail 32 .....	A20B
Lane Drop at Intersections (white) .....	Detail 37B .....	A20C
Channelizing Line (white) .....	Detail 38 .....	A20D
Lane Line Extensions Through Intersections (white) ..	Detail 40 .....	A20D
Bike Lane Line (white) .....	Detail 39 .....	A20D
Bike Lane Intersection Line (white) .....	Detail 39A .....	A20D
Raised Median Island Nose (with RPMs, Type K, & R4-7/R4-7A, see CRM Std. 213) .....		--

Markings

Left or Right Arrow .....	Type IV (L) or (R) .....	A24B
Shared Left Through or Right Through Arrow .....	Type VII (L) or (R) .....	A24B
Shared Left Right Arrow .....	Type VIII .....	A24B
Shared Left Through Right Arrow .....	Type VIII .....	A24B
Bike Lane Arrow (white) .....		A24A
Bike Lane Symbol With Person (white) .....		A24C
Pavement Words (Various) .....		A24D, A24E

Special Signs

Flourescent yellow, Green Sign Faces should be used for pedestrian warning, bicycle warning, playground warning, school bus and school warnings.

W11A-2, W16-7P, W16-9P, W54A, W64, W65, W65-1, W66, W66A, W80, S1-1, S2-1, S2-1B, S4-3

Notes:

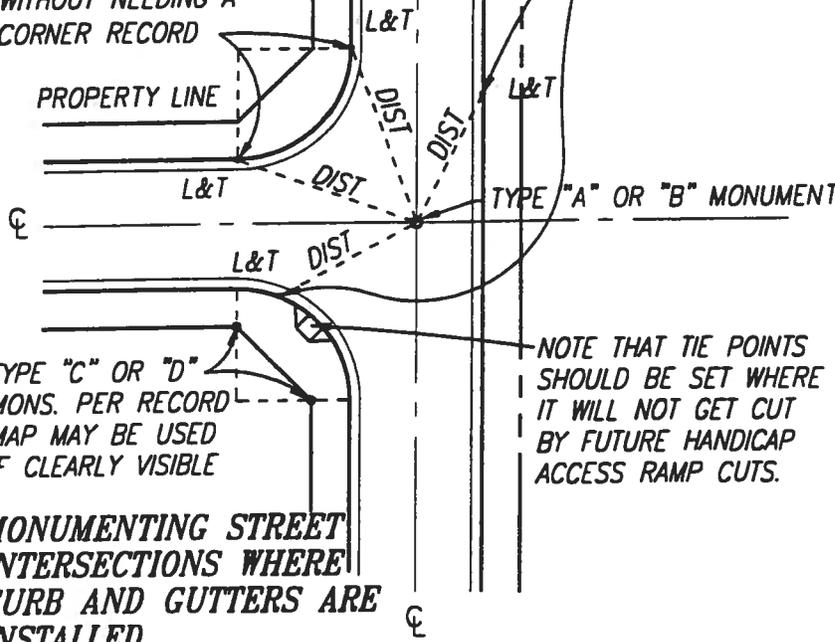
1. All work shall be done in conformance with the 2015 Edition of the State of California Department of Transportation Standard Plans and the 2015 Edition of the State of California Department of Transportation Standard Specifications Sections 84 and 85.
2. All traffic striping and pavement markings 8" and wider shall be thermoplastic unless otherwise noted.
3. Painted lines shall be two (2) coats minimum.

<b>CITY OF RANCHO MIRAGE</b>		<b>STANDARD DETAIL 608 SHT. 2 OF 2</b>
REVISIONS	<b>PAVEMENT MARKINGS</b>	
8/16/2016	<i>William G. Cruz</i> 8/25/16	
	APPROVED BY: CITY ENGINEER DATE	



IF TYPE "E" MONUMENTS ARE SET IN CURB AS OFFSET POINTS PER THE RECORD MAP, THEN THEY COULD BE USED AS TIE POINTS WITHOUT NEEDING A CORNER RECORD

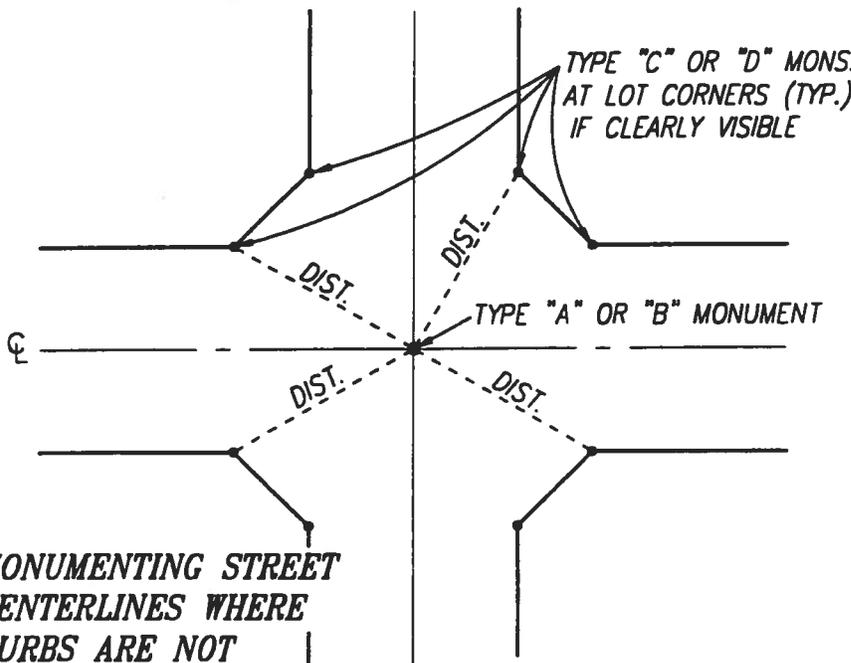
NOTE THAT CORNER RECORDS MUST BE FILED FOR ALL TAGGED POINTS NOT SHOWN ON ANOTHER RECORDED MAP.



MONUMENTING STREET INTERSECTIONS WHERE CURB AND GUTTERS ARE INSTALLED.

TYPE "C" OR "D" MONS. PER RECORD MAP MAY BE USED IF CLEARLY VISIBLE

NOTE THAT TIE POINTS SHOULD BE SET WHERE IT WILL NOT GET CUT BY FUTURE HANDICAP ACCESS RAMP CUTS.



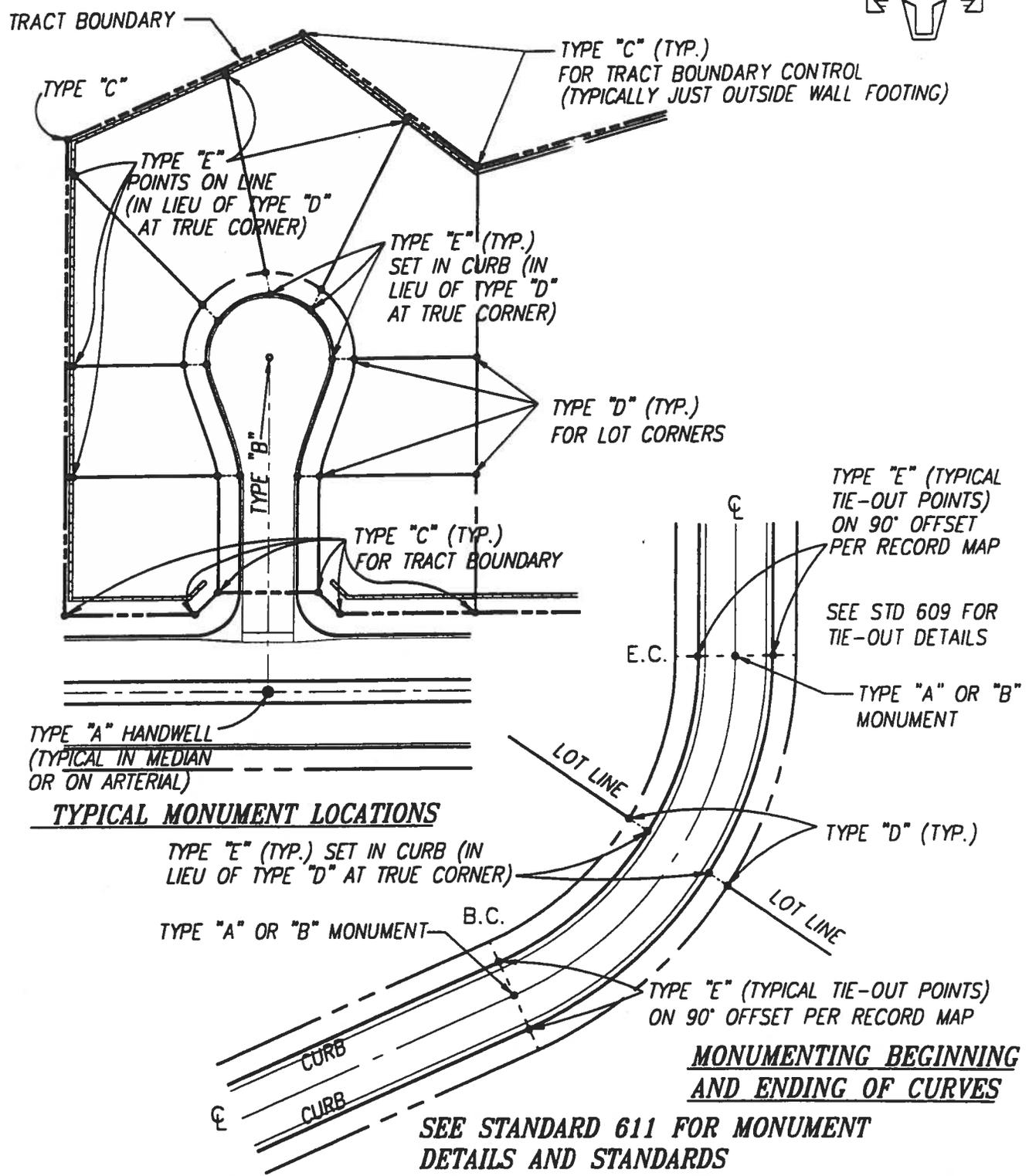
MONUMENTING STREET CENTERLINES WHERE CURBS ARE NOT PRESENT.

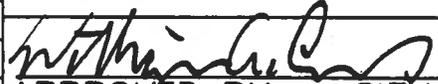
**NOTES:**

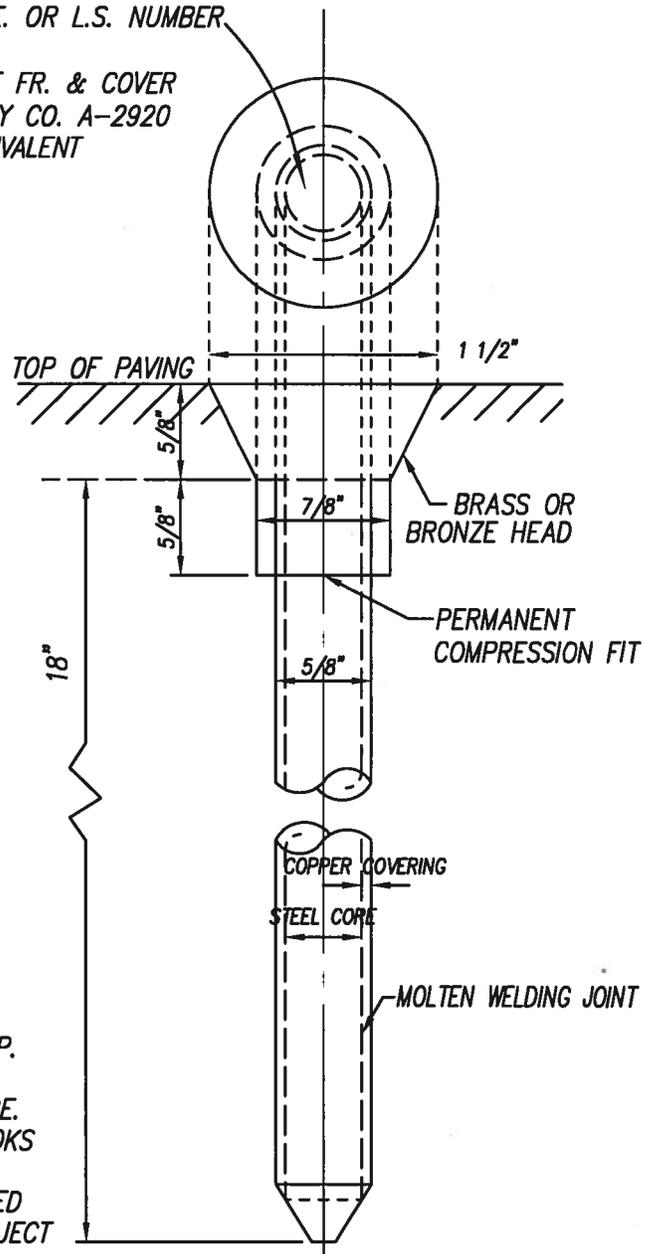
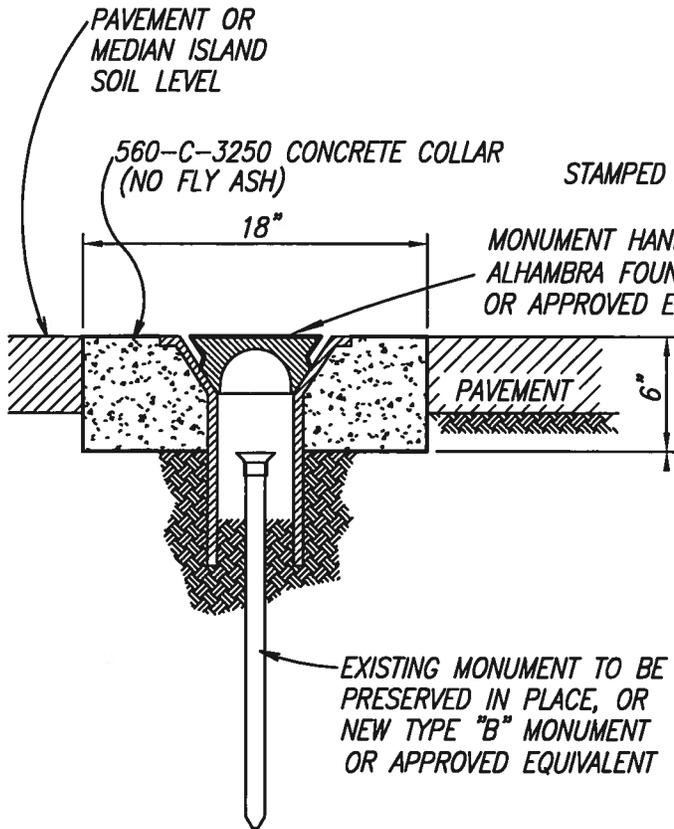
1. L&T AS SHOWN HEREON INDICATES LEAD & TAG (OR STEEL PIN & TAG) MONUMENTS SET IN CURB. (TYPE "E")
2. LEAD & TAG (OR STEEL PIN & TAG) MONUMENT WITNESS TO PROPERTY CORNER MAY BE SET IN LIEU OF SETTING FRONT LOT CORNERS.
3. SEE STD 610 AND STD 611. FOR MONUMENT DESCRIPTIONS, LOCATIONS, AND DETAILS.
4. UPON COMPLETION OF THE TRACT MONUMENTATION, THE ENGINEER OR LICENSED SURVEYOR SHALL FURNISH TO THE CITY ENGINEER TIES TO ALL STREET CENTERLINE MONUMENTS. SUCH TIES ARE TO BE TO MONUMENTS SET IN PERMANENT PHYSICAL OBJECTS, WITH AT LEAST 4 TIE POINTS NOTED. THE TIES ARE TO BE FURNISHED ON 8 1/2" x 11" SURVEY PAPER. SKETCHES SHALL BE CLEAR AND LEGIBLE, AND STAMPED AND SIGNED BY THE SURVEYOR OR ENGINEER. COPIES OF FILED CORNER RECORDS SHALL BE PROVIDED FOR ALL TAGGED POINTS NOT OTHERWISE SHOWN ON A RECORD MAP.
5. PRIOR TO CONSTRUCTION NEAR EXISTING MONUMENTS, A SURVEYOR OR ENGINEER (#<33966) MUST "TIE-OUT" THE EXISTING MONUMENT AND FILE A CORNER RECORD FOR ANY NEW TAGS SET. ANOTHER CORNER RECORD IS REQUIRED FOR ANY REPLACEMENT MONUMENT SET AFTER THE CONSTRUCTION ENDS. (P.L.S. ACT SECTION 8771(b))

SEE STANDARD 611 FOR MONUMENT DETAILS AND STANDARDS

CITY OF RANCHO MIRAGE		STANDARD DETAIL 609
REVISIONS	TIE-OUT STANDARDS	
	APPROVED BY: CITY ENGINEER      DATE: 5/31/01	



<b>CITY OF RANCHO MIRAGE</b>		<b>STANDARD DETAIL 610</b>
<b>REVISIONS</b>	<b>MONUMENTATION</b>	
		
	APPROVED BY: CITY ENGINEER	DATE: 5/31/01



**TYPE "A" MONUMENT HANDWELL**

TO BE USED ON ARTERIAL STREET CENTERLINES, IN MEDIAN ISLANDS, OR WHEREVER THE FINISHED SURFACE MAY BE SUBJECT TO FUTURE OVERLAY OR ADJUSTMENT.

**\* ACCEPTABLE MONUMENT SUBSTITUTIONS**

AN ACCEPTABLE SUBSTITUTE FOR EITHER OF THESE MONUMENTS IS A 23.6" BERNTSEN "FENO" MONUMENT WITH A 2" STAMPED BRASS OR ALUMINUM DISK ON TOP. IN MEDIAN ISLANDS, MOUNT THE "FENO" IN A RED BERNTSEN "POLYROC" BLOCK, SET FLUSH WITH SURFACE. AFTER HORIZONTAL LOCATION, THE "FENO" ANCHOR HOOKS SHALL BE EXTENDED PER MANUFACTURER'S DIRECTIONS. ANY OTHER MONUMENT SUBSTITUTIONS MUST BE CLEARED WITH THE CITY ENGINEER PRIOR TO USAGE, OR BE SUBJECT TO REMOVAL AND REPLACEMENT AT SURVEYOR EXPENSE. SEE MONUMENT CRITERIA LIST ON SHEET 2.

**TYPE "B" MONUMENT**

**NOTE: SEE SHEET 2 OF 2 FOR MONUMENT DESCRIPTION AND SCHEDULE**

<b>CITY OF RANCHO MIRAGE</b>		<b>STANDARD DETAIL 611 SHEET 1 OF 2</b>
<b>REVISIONS</b>	<b>MONUMENT DETAILS AND STANDARDS</b>	
* 7/5/2012	<i>William Gibson</i> 7/12/12	
	APPROVED BY: CITY ENGINEER DATE	



**MONUMENT DESCRIPTION AND SCHEDULE**

TYPE "A": TYPE "A" MONUMENTS SHALL BE OF THE TYPE SHOWN ON SHEET 1 OF 2. TYPE "A" MONUMENTS SHALL BE USED AS CENTERLINE POINTS ON ARTERIAL STREETS, SECTION CORNERS, QUARTER SECTION POINTS, AND MONUMENTS IN MEDIAN ISLANDS.

TYPE "B": TYPE "B" MONUMENTS SHALL BE OF THE TYPE SHOWN ON SHEET 1 OF 2. TYPE "B" MONUMENTS SHALL BE USED FOR STREET INTERSECTIONS, CENTERLINE CONTROL INCLUDING ANGLE POINTS AND BEGINNINGS AND ENDINGS OF CURVES, OR ANY OTHER LOCATION WHERE PERMANENT SURVEY POINTS ARE IN PAVED SURFACES.

TYPE "C": TYPE "C" MONUMENTS ARE TO BE TWO INCH (INSIDE DIAMETER) IRON PIPE THIRTY INCHES (30") LONG. A METAL DISC OR BRASS CAP BEARING THE REGISTERED CIVIL ENGINEER OR LAND SURVEYOR NUMBER SHALL BE SECURELY AFFIXED TO THE TOP OF THE PIPE. THE TOP SURFACE OF THE MONUMENT SHALL BE SET AT OR WITHIN 12 INCHES OF THE FINISH SURFACE. TYPE "C" MONUMENTS SHALL BE USED FOR MAP BOUNDARY CONTROL UNLESS TYPE "A", "B", WOULD BE MORE APPROPRIATE.

TYPE "D": TYPE "D" MONUMENTS ARE TO BE ONE INCH (INSIDE DIAMETER) IRON PIPE THIRTY INCHES (30") LONG. A METAL DISC OR BRASS CAP BEARING THE REGISTERED CIVIL ENGINEER OR LAND SURVEYOR NUMBER SHALL BE SECURELY AFFIXED TO THE TOP OF THE PIPE. THE TOP SURFACE OF THE MONUMENT SHALL BE SET AT OR WITHIN 12 INCHES OF THE FINISH SURFACE. TYPE "D" MONUMENTS SHALL BE USED FOR INTERIOR SUBDIVISION LOT CORNERS.

TYPE "E": TYPE "E" MONUMENTS SHALL CONSIST OF A LEAD PLUG OR A STEEL PIN WITH A METAL I.D. DISK SET IN THE TOP OF PERMANENT CONCRETE STRUCTURES SUCH AS CURB, OR MASONRY WALL. COMMONLY CALLED "LEAD & TAG" MONUMENTS, THEY MAY BE USED IN LIEU OF THE FRONT LOT CORNERS, SET IN THE TOP OF CURB ON THE PROLONGATION OF THE SIDE LOT LINES. THEY ALSO MAY BE USED IN LIEU OF REAR PROPERTY CORNERS WHERE THERE IS A MASONRY WALL CLOSE TO THE REAR PROPERTY LINE. THE TAGS WOULD BE SET ON BOTH SIDES OF THE WALL AND NOTED ON THE SUBDIVISION MAP AS "POINTS ON LINE", UNLESS THE TRUE CORNER IS COEXISTENT WITH THE WALL AND THE TAG CAN GO ON TOP OF THE WALL.

ALTERNATIVE MONUMENTS: WITH ADVANCE PERMISSION FROM THE CITY ENGINEER, SOME ALTERNATIVE MONUMENTS MAY BE ACCEPTABLE IF THEY MEET THE FOLLOWING CRITERIA:

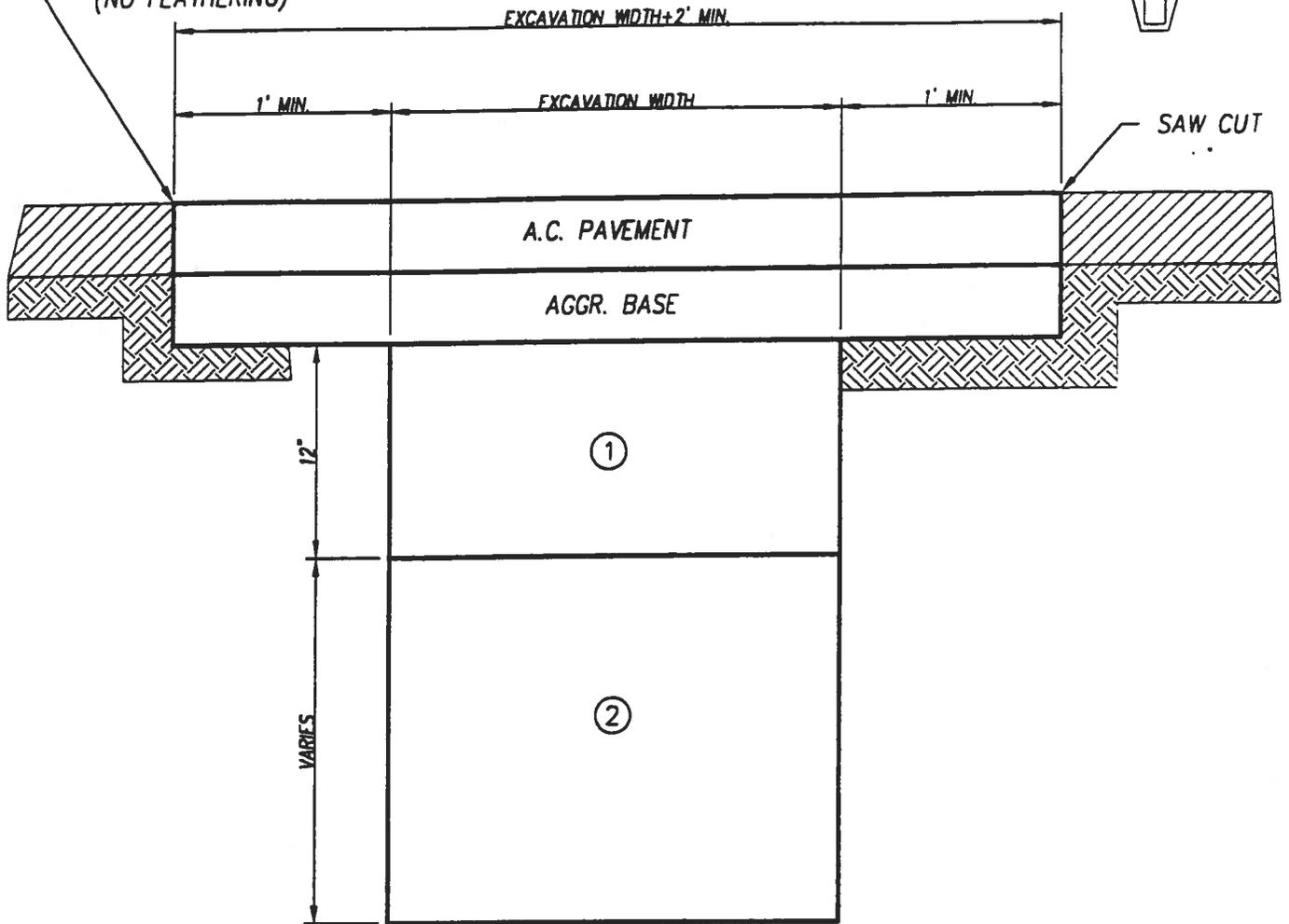
- 1.) MONUMENT MUST BE LOCATABLE WITH A STANDARD FERROUS METAL DETECTOR
- 2.) LICENSE NUMBERS MUST BE ON AN ATTACHED BRASS DISK OR STAMPED INTO BRASS CAP (PLASTIC CAPS OR PLUGS ARE NOT ACCEPTABLE)
- 3.) MONUMENT MUST BE A DURABLE METAL, RUST RESISTANT, AND ABLE TO RESIST ANY CASUAL MOVEMENT OR WITHDRAWAL ATTEMPTS.

NOTE: SEE STANDARD 611, SHEET 1 OF 2 FOR MONUMENT DETAILS.

SEE STANDARD 609 FOR TIE-OUT STANDARDS AND STANDARD 610 FOR MONUMENTATION LOCATIONS.

<b>CITY OF RANCHO MIRAGE</b>		<b>STANDARD DETAIL 611 SHEET 2 OF 2</b>
<b>REVISIONS</b>	<b>MONUMENT DETAILS AND STANDARDS</b>	
 <span style="float: right;">5/31/01</span>		
APPROVED BY: CITY ENGINEER		DATE

JOIN EXISTING A.C. PAVT.  
WITH SMOOTH BUTT JOINT  
(NO FEATHERING)



CONSTRUCT A.C. PAVT. TO CONFORM TO EXISTING CROWN CONTOUR AS FOLLOW:

RESIDENTIAL STREETS: 4" A.C. OVER 4" A.B.  
ALL OTHER STREETS: 5" A.C. OVER 10" A.B.

- ① COMPACTED EARTH FILL  
(RELATIVE COMPACTION 95% - 6" MAX. LIFTS)
- ② COMPACTED EARTH FILL  
(RELATIVE COMPACTION 90% - 8" MAX. LIFTS)

**CITY OF RANCHO MIRAGE**

STANDARD

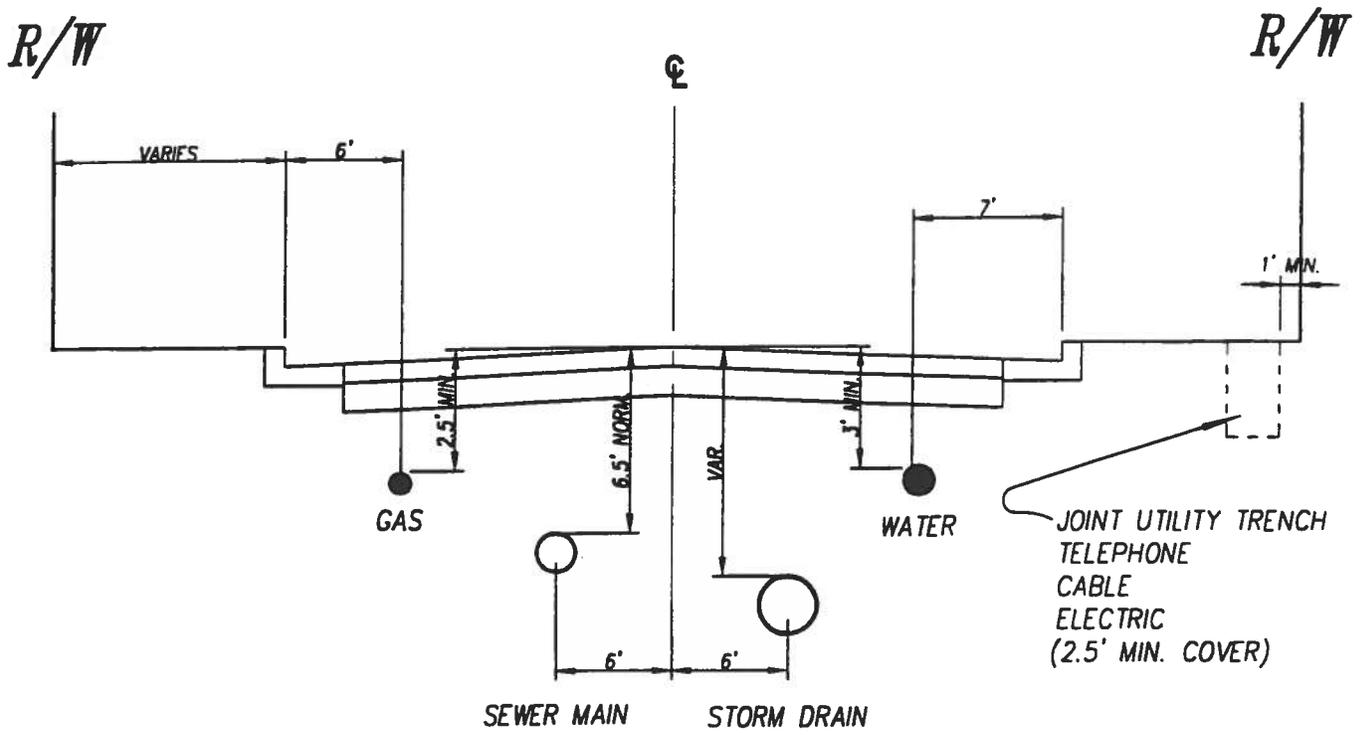
REVISIONS

**POTHOLE REQUIREMENTS**

DETAIL

*William H. ...* 5/31/01  
APPROVED BY: CITY ENGINEER DATE

**612**

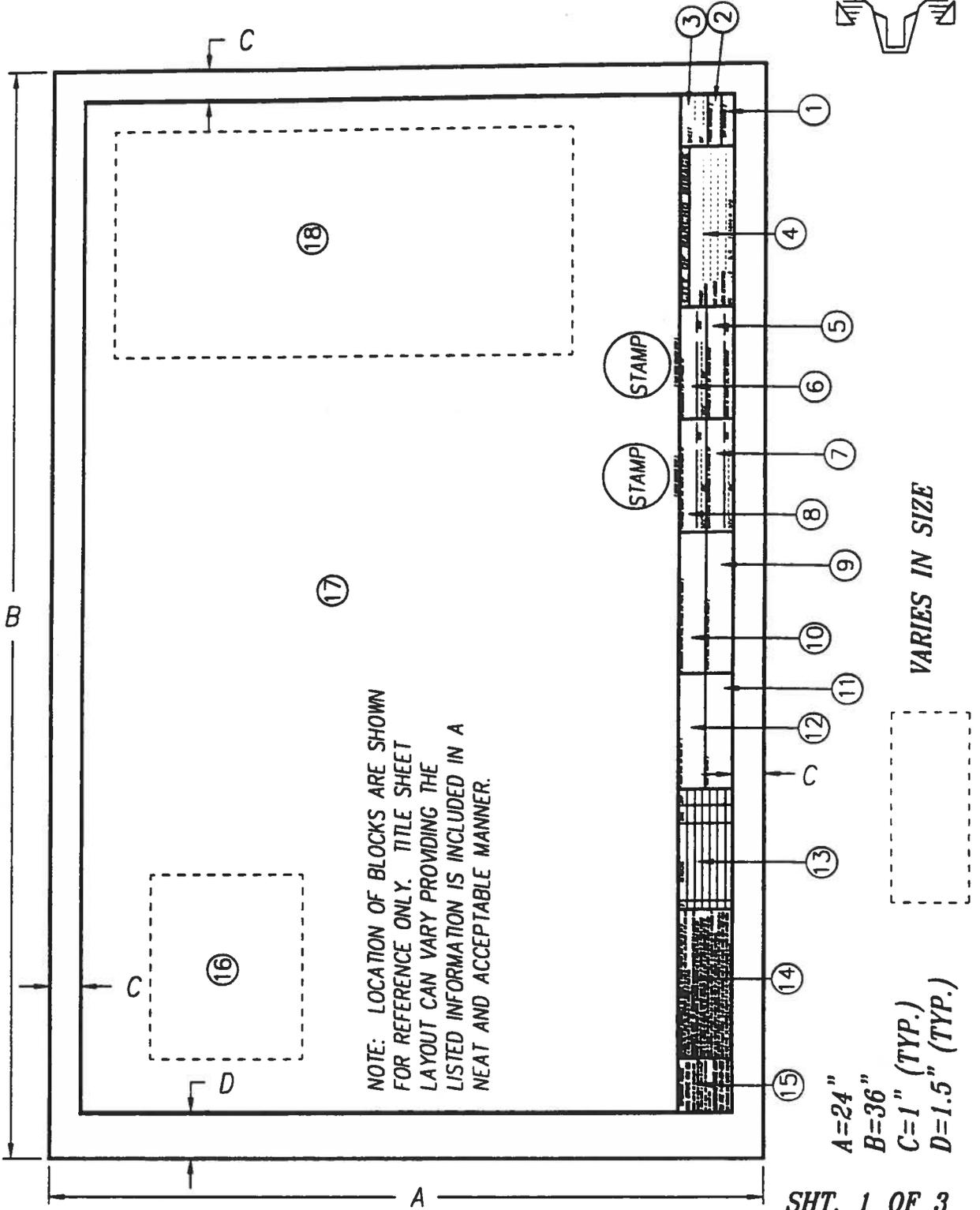


**NOTE: WHEN UTILITY CONNECTIONS MUST BE TUNNELED UNDERNEATH CURB, CURB & GUTTER, OR SIDEWALK, BACKFILL THE TRENCH WITH 100-E-100 CONCRETE SLURRY OR APPROVED EQUIVALENT, TO ENSURE COMPACTION**

<b>CITY OF RANCHO MIRAGE</b>		<b>STANDARD DETAIL 613</b>
REVISIONS	<b>TYPICAL UTILITY LOCATIONS</b>	
APPROVED BY: <i>[Signature]</i> CITY ENGINEER DATE: <i>5/31/01</i>		



SEE SHT. 2 OF 2 FOR LEGEND  
AND DRAFTING STANDARDS



SHT. 1 OF 3

<b>CITY OF RANCHO MIRAGE</b>		<b>STANDARD DETAIL 614</b>
REVISIONS	<b>SAMPLE SHEETS DRAFTING STANDARDS</b>	
APPROVED BY: <i>William A. Co</i> 5/31/01 CITY ENGINEER DATE		

## LEGEND



- ① CITY OF RANCHO MIRAGE FILE NUMBER (ASSIGNED)
- ② PREPARER'S REFERENCE NUMBERS, NAMES, MISC.
- ③ SHEET \_\_\_\_\_ OF \_\_\_\_\_
- ④ TITLE OF DRAWING, SITE ADDRESS, APN, BRIEF LEGAL DESCRIPTION, SECTION, TOWNSHIP, RANGE
- ⑤ CITY ENGINEER'S APPROVAL BLOCK (NO R.C.E. # OR EXP.# NEEDED)
- ⑥ PLAN CHECK ENGINEER'S "RECOMMENDED FOR APPROVAL BY" BLOCK, W/ STAMP AREA
- ⑦ GEOTECHNICAL ENGINEER'S APPROVAL BLOCK, IF REQUIRED, DUE TO NON-STANDARD EARTHWORK
- ⑧ DESIGN ENGINEER'S BLOCK CONTAINING "PREPARED UNDER THE SUPERVISION OF" AND STAMP OR SEAL, SIGNATURE, AND DATE OF EXPIRATION
- ⑨ OWNER'S NAME, ADDRESS, AND PHONE NUMBER
- ⑩ PREPARER'S COMPANY NAME, ADDRESS, AND PHONE NUMBER
- ⑪ REFERENCE BLOCK, BASIS OF BEARING (FROM FOUND MONUMENTS AND RECORD DATA)
- ⑫ REFERENCE BLOCK, SEA LEVEL DATA REFERENCE (CITY BENCH MARK OR CURB ELEV. PER REF. STREET PLANS)
- ⑬ REVISION BLOCK 1.5"x4" MINIMUM
- ⑭ ENGINEER'S NOTES TO CONTRACTOR (SEE DETAIL ON SHEET 3 OF 3)
- ⑮ DIG ALERT NOTE, (SEE DETAIL ON SHEET 3 OF 3) STANDARD PICTORIAL "NO DIG" SYMBOL MAY BE ADDED ALSO
- ⑯ VICINITY MAP (ON FIRST SHEET OF SET)
- ⑰ MAIN BODY OF PLANS, TYPICAL SECTIONS, DETAILS, ETC. WITH GRAPHIC SCALE ADJACENT TO NORTH ARROW
- ⑱ GENERAL NOTES, CONSTRUCTION NOTES, ETC.

## DRAFTING STANDARDS

PLANS SHALL BE PREPARED IN ACCORDANCE WITH STANDARD ENGINEERING PRACTICES AND PHOTOGRAMMETRIC METHODS. PLANS SHALL BE NEAT, COMPLETELY LEGIBLE AND PROFESSIONAL IN APPEARANCE.

1. DRAFTING MEDIA
  - A. INK- KOH-I-NOOR RAPIDOGRAPH WATERPROOF BLACK DRAWING INK (KOH-I-NOOR CATALOG NO. 3080-F OR APPROVED EQUAL).
  - B. "MYLAR" ORIGINAL- 24"x36" SURE-SCALE STABLE BASE POLYESTER FILM DOUBLE MATTE, 0.003" (3 MIL) THICKNESS (BRUNING CATALOG NO. 44-232 OR APPROVED EQUAL).
  - C. STANDARD TITLE BLOCK SHEETS ARE AVAILABLE IN ENGINEERING DIVISION ON MYLAR OR AS ELECTRONIC FILES.
2. SCALES
 

THE PLANS SHEETS SHALL BE DRAWN TO A SCALE WHICH WILL ALLOW FOR NEAT DRAFTING AND NOTE PLACEMENT. PLAN AND PROFILE SHEETS SHALL BE DRAWN NO SMALLER THAN 1"=40' HORIZONTAL AND 1"=4' VERTICAL UNLESS PRIOR APPROVAL IS GIVEN BY THE CITY ENGINEER. GRADING AND HYDROLOGY MAPS MAY BE DRAWN TO A SMALLER SCALE, NOT LESS THAN 1"=100', PROVIDING ALL NECESSARY DETAIL AND INFORMATION IS STILL NEATLY PROVIDED. SPECIAL DETAILS WILL BE DRAWN TO A SCALE OR SIZE WHICH WILL ALLOW SUFFICIENT DETAIL.
3. LETTERING
 

LETTERING SHALL BE MECHANICAL, OR NEAT HAND LETTERING. HAND LETTERING SHALL BE CONSISTENT, NEAT, AND COMPLETELY LEGIBLE. ANY LETTERING NOT MEETING THE APPROVED STANDARDS SHALL BE CAUSE FOR REJECTION. MINIMUM LETTERING SIZE SHALL BE 0.08" OR LARGER. "STICK ONS" WILL NOT BE ALLOWED ON ORIGINALS SUBMITTED TO THE CITY.
4. LINWORK
 

ALL LINWORK SHALL BE OF SUFFICIENT DENSITY TO BE REPRODUCIBLE BY CURRENT REPRODUCTIVE PROCESSES. LINE WEIGHT SHALL BE "00" OR LARGER. ANY LINWORK WHICH DOES NOT REPRODUCE MAY BE CAUSE FOR REJECTION.

SHT. 2 OF 3

**CITY OF RANCHO MIRAGE**

**STANDARD**

REVISIONS

**SAMPLE SHEETS  
DRAFTING STANDARDS**

**DETAIL**

*Mitchell A. ...* 5/3/01  
APPROVED BY: CITY ENGINEER DATE

**614**



DETAIL (14): ENGINEER'S NOTES TO CONTRACTOR, SHOWN ACTUAL SIZE FROM STANDARD SHEET

**UNAUTHORIZED CHANGES & USES:** THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

**ENGINEER'S NOTE TO CONTRACTOR:** CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN IN THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT THOSE SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN, AND IS RESPONSIBLE FOR THE PROTECTION OF, AND ANY DAMAGE TO THESE LINES OR STRUCTURES.

DETAIL (15): DIG ALERT NOTE, SHOWN ACTUAL SIZE FROM STANDARD SHEET

**IMPORTANT NOTICE  
CALL BEFORE YOU DIG**

SECTION 4216 OF THE GOVERNMENT CODE  
REQUIRES AN INQUIRY IDENTIFICATION NUMBER  
BE ISSUED BEFORE A "PERMIT TO EXCAVATE"  
WILL BE VALID. FOR YOUR PRE-EXCAVATION  
I.D. NUMBER CALL

**UNDERGROUND SERVICE ALERT  
TOLL FREE 1-800-227-2600  
TWO WORKING DAYS BEFORE YOU DIG**

SHT. 3 OF 3

**CITY OF RANCHO MIRAGE**

**STANDARD**

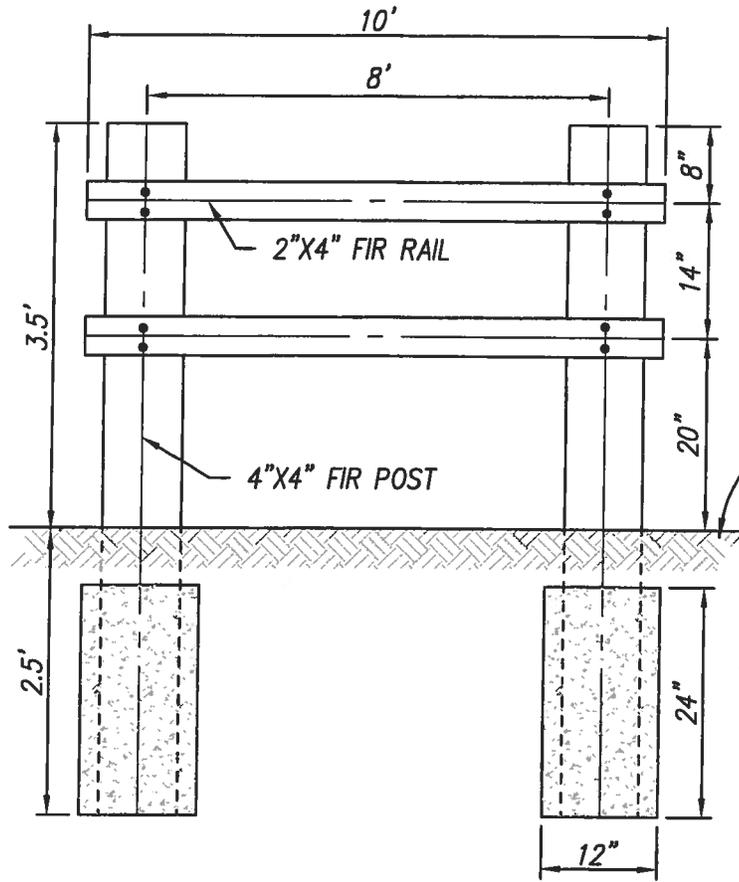
REVISIONS

**SAMPLE SHEETS  
DRAFTING STANDARDS**

**DETAIL**

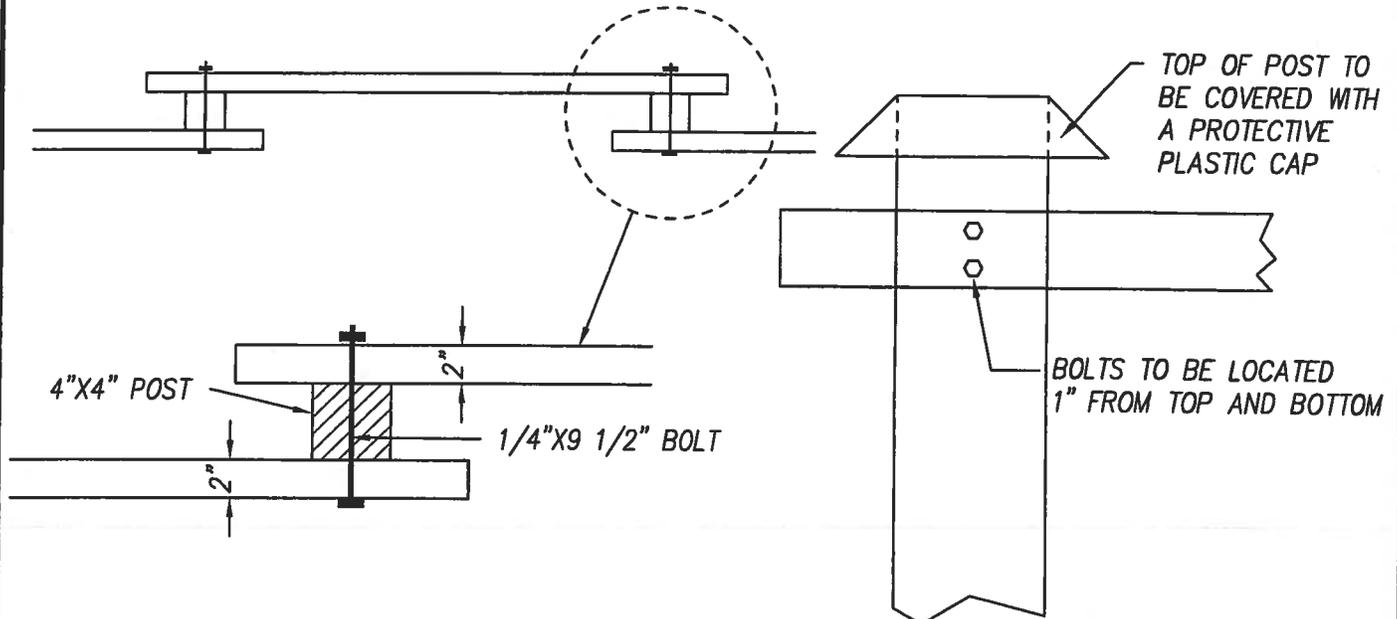
*William Gilman* 5/31/01  
APPROVED BY: CITY ENGINEER DATE

**614**



FOOTING TO BE 12"X12"X24" CLASS 520-C-2500 P.C.C.

EQUESTRIAN TRAIL SURFACE (SEE SHT. 2 FOR DETAILS)



SHT. 1 OF 2

CITY OF RANCHO MIRAGE

STANDARD

DETAIL

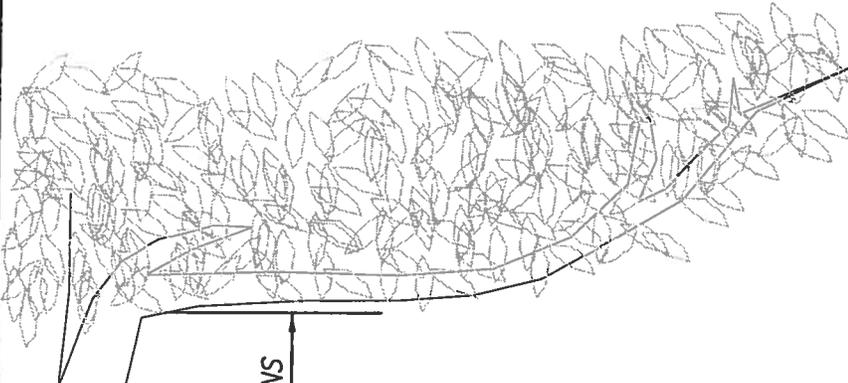
615

REVISIONS

12/04/2002

EQUESTRIAN TRAIL FENCE DETAILS

APPROVED BY: *William G. Casper* 12/6/02  
CITY ENGINEER DATE



10' MINIMUM CLEARANCE TO OVERHEAD OBSTRUCTIONS

10' EQUESTRIAN EASEMENT AND/OR PUBLIC R/W (TYP.)

EQUESTRIAN FENCE  
(SEE SHT. 1)

4" MIN. DECOMPOSED GRANITE (D.G.)  
3/8"-1/8" SIZE, "GOLD" COLOR,  
WITH "ENVIROKLEEN" ANTI-DUST  
TREATMENT (OR APPR. EQUIV.)  
COMPACTED TO 95% OF MAX.

2" NATIVE MATERIAL, RAKED CLEAN  
OF ALL SHARP ROCKS & OBJECTS  
COMPACTED TO 90% OF MAX.

2"x6" REDWOOD HEADER  
WITH 1"x2"x18" REDWOOD  
STAKES AT 8' O.C., OR  
ATTACHED TO FENCE POSTS

SHT. 2 OF 2

CITY OF RANCHO MIRAGE

STANDARD

REVISIONS

**EQUESTRIAN TRAIL  
TRAIL DETAILS**

DETAIL

12/04/2002

*Witherspoon* 12/6/02  
APPROVED BY: CITY ENGINEER DATE

**615**