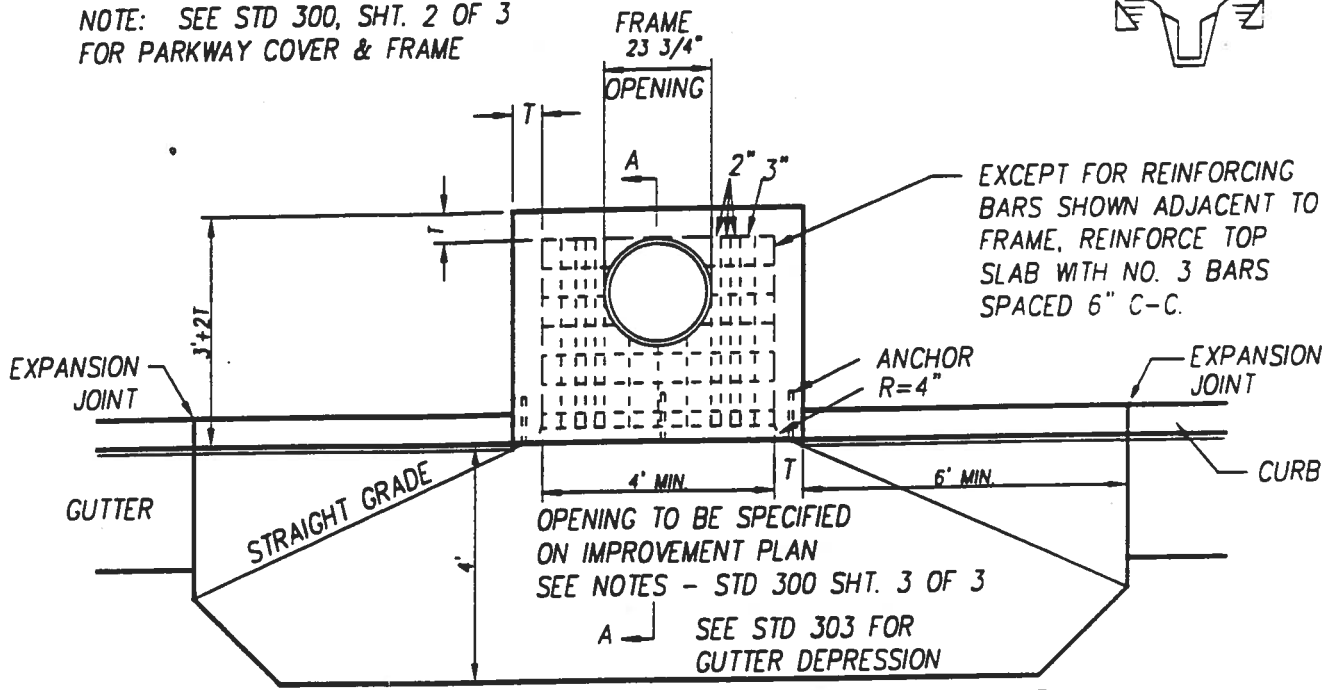
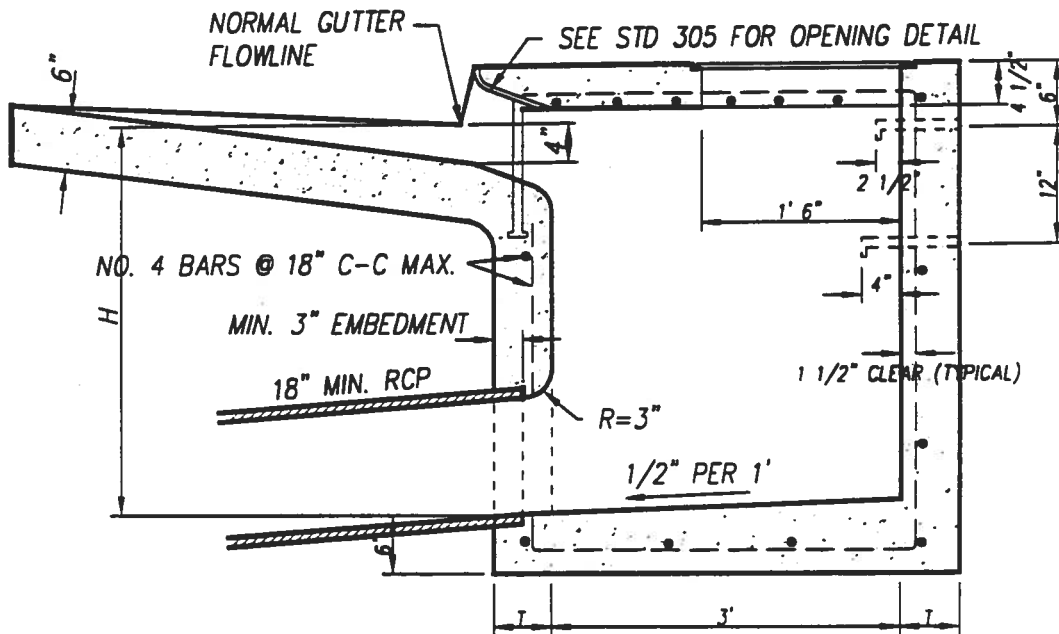




NOTE: SEE STD 300, SHT. 2 OF 3 FOR PARKWAY COVER & FRAME



COMPACT BACKFILL TO 90% MIN., WITH THE TOP 12\"/>



SECTION A-A

CITY OF RANCHO MIRAGE

STANDARD

REVISIONS

CURB INLET CATCH BASIN

DETAIL

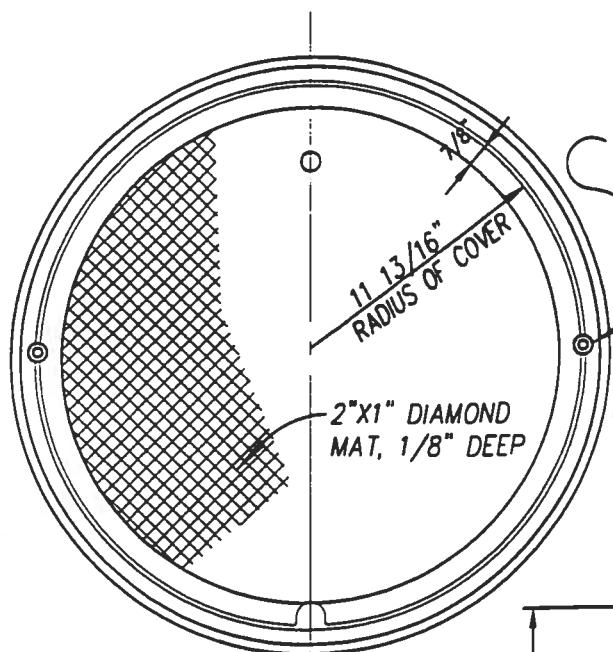
*Matthew A. Co...*

5/31/01

300

APPROVED BY: CITY ENGINEER DATE

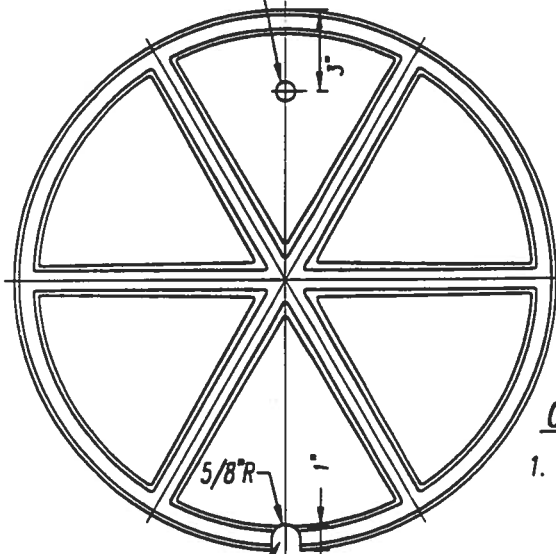
SHT. 1 OF 3



**TOP OF MANHOLE FRAME & COVER**

TOTAL WT. = 130 LBS.

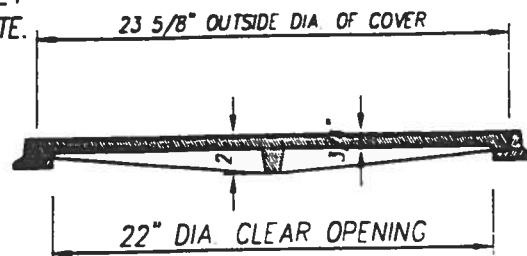
3/4" DIA. PICK HOLE



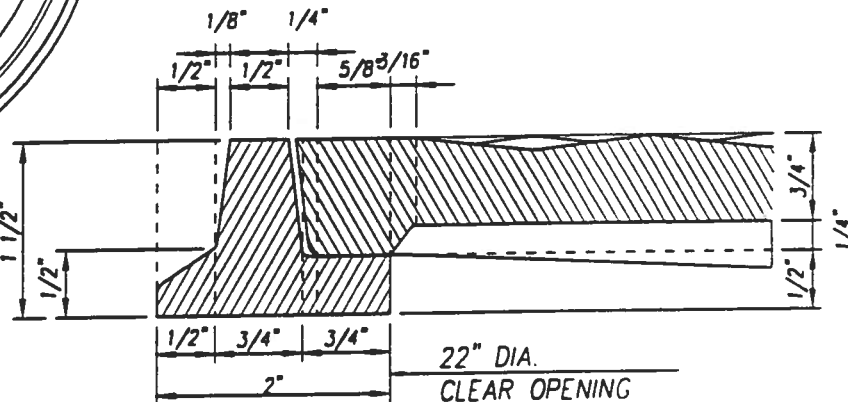
GAP ON RIM OF COVER OPPOSITE PICK HOLE

**BOTTOM OF MANHOLE COVER**

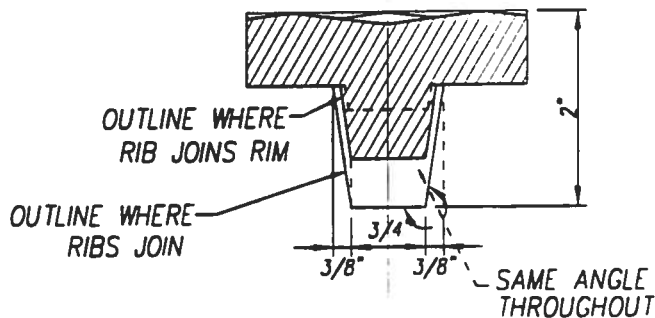
ALLEN SOCKET SET SCREW. SEE NOTE.



**CROSS SECTION THRU FRAME & COVER**



**CROSS SECTION THRU RIM**



**CROSS SECTION THRU RIB AT MID RADIUS**

1. FRAME AND COVER SHALL BE GRAY CAST IRON CONFORMING TO THE LATEST A.S.T.M. STANDARD A48, CLASS 30 OR BETTER. GALVANIZE PER A.S.T.M. A385.
2. INSTALL TWO 3/4"x3/4" ALLEN SOCKET SET SCREWS, 90° TO PICK HOLE, IN HOLES DRILLED AND TAPPED 1" IN DEPTH. GALVANIZE PER A.S.T.M. 153.
3. FRAME AND COVER SHALL BE TESTED FOR ACCURACY OF FIT AND SHALL BE MARKED IN SETS BEFORE DELIVERY. RETAP FRAME AS REQUIRED TO SUIT SET SCREWS.

**CITY OF RANCHO MIRAGE**

**STANDARD**

REVISIONS

**CURB INLET CATCH BASIN  
MANHOLE FRAME AND COVER**

**DETAIL**

**300**

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

CITY ENGINEER

SHT. 2 OF 3



CONNECTION PIPES MAY BE PLACED ANY POSITION AROUND THE WALLS, PROVIDED THEY POINT IN THE PROPER DIRECTION AND THE POSITION IS OTHERWISE CONSISTENT WITH THE IMPROVEMENT PLANS.

CURVATURE OF THE LIP AND SIDEWALLS AT GUTTER OPENING SHALL BE FORMED BY CURVED FORMS AND SHALL NOT BE MADE BY PLASTERING.

**DIMENSIONS:**

- T = 6" IF H IS 8' OR LESS
- T = 8" IF H IS GREATER THAN 8' AND LESS THAN 20'
- H = 3' 6", UNLESS OTHERWISE SPECIFIED

FLOOR OF BASIN SHALL BE GIVEN A STEEL-TROWELLED FINISH.

MANHOLE SHALL BE PLACED AS SHOWN ON STD 300, SHEET 1 OF 3, UNLESS NOTED DIFFERENTLY ON IMPROVEMENT PLANS.

OUTLET PIPE SHALL BE TRIMMED TO THE FINAL SHAPE AND LENGTH BEFORE CONCRETE IS POURED.

OPENING SHALL BE 4' UNLESS OTHERWISE SPECIFIED.

REINFORCING STEEL SHALL BE NO. 3 ROUND DEFORMED BARS IN TOP SLAB AND NO. 4 BARS AT 18 INCH CENTERS IN SIDES OF BOX.

STEPS SHALL BE 3/4" PLAIN ROUND GALVANIZED STEEL AND SHALL BE ALHAMBRA FDY. A-3320 OR EQUAL.

IF H IS 3.5 FEET OR LESS, NO STEPS ARE REQUIRED.

IF H IS MORE THAN 3.5 FEET, AND NOT MORE THAN 5', INSTALL 1 STEP 16" ABOVE FLOOR OF BASIN.

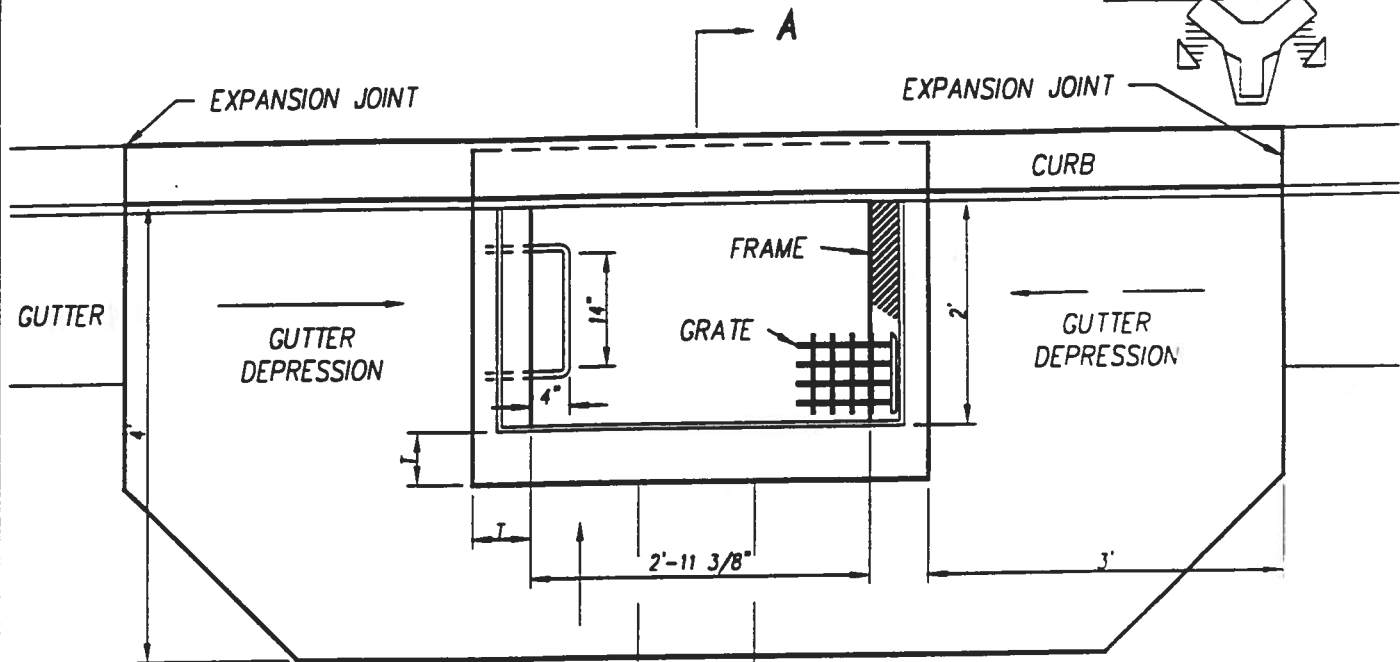
IF H IS MORE THAN 5 FEET, INSTALL STEPS 12" APART, WITH THE TOP STEP 6" BELOW THE SURFACE OF THE BASIN.

ALL STEPS SHALL BE 4" FROM THE WALL, EXCEPT THE TOP STEP, WHICH SHALL BE 2 1/2" (CLEAR) FROM THE WALL, AND ANCHORED NOT LESS THAN 5 INCHES IN THE WALL OF THE BASIN.

SURFACE OF ALL EXPOSED CONCRETE IN BASIN SHALL CONFORM IN SLOPE, GRADES, COLOR, FINISH AND SCORING TO EXISTING OR PROPOSED CURB AND WALL ADJACENT TO THE BASIN.

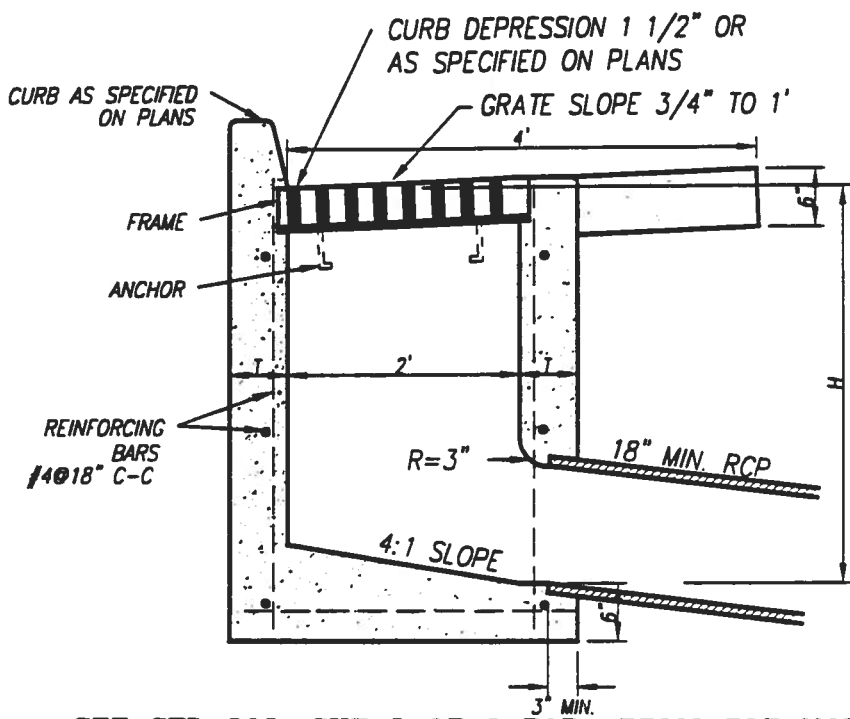
CONCRETE SHALL BE CLASS 560-C-3250. WHEN THE BASIN IS CONTIGUOUS TO A SIDEWALK, THE TOP OF THE BASIN SHALL BE POURED MONOLITHIC WITH THE SIDEWALK USING CLASS 560-C-3250 CONCRETE FOR THE SIDEWALK AND THE TOP OF THE CATCH BASIN FINISHED PER SIDEWALK STANDARDS.

<b>CITY OF RANCHO MIRAGE</b>		<b>STANDARD DETAIL 300 SHT. 3 OF 3</b>
<b>REVISIONS</b>	<b>CURB INLET CATCH BASIN NOTES</b>	
APPROVED BY: <i>William G. Cross</i> 5/31/01 CITY ENGINEER      DATE		



COMPACT BACKFILL TO 90% MIN., WITH THE TOP 12" COMPACTED TO 95% MIN. UNDER PAVING.

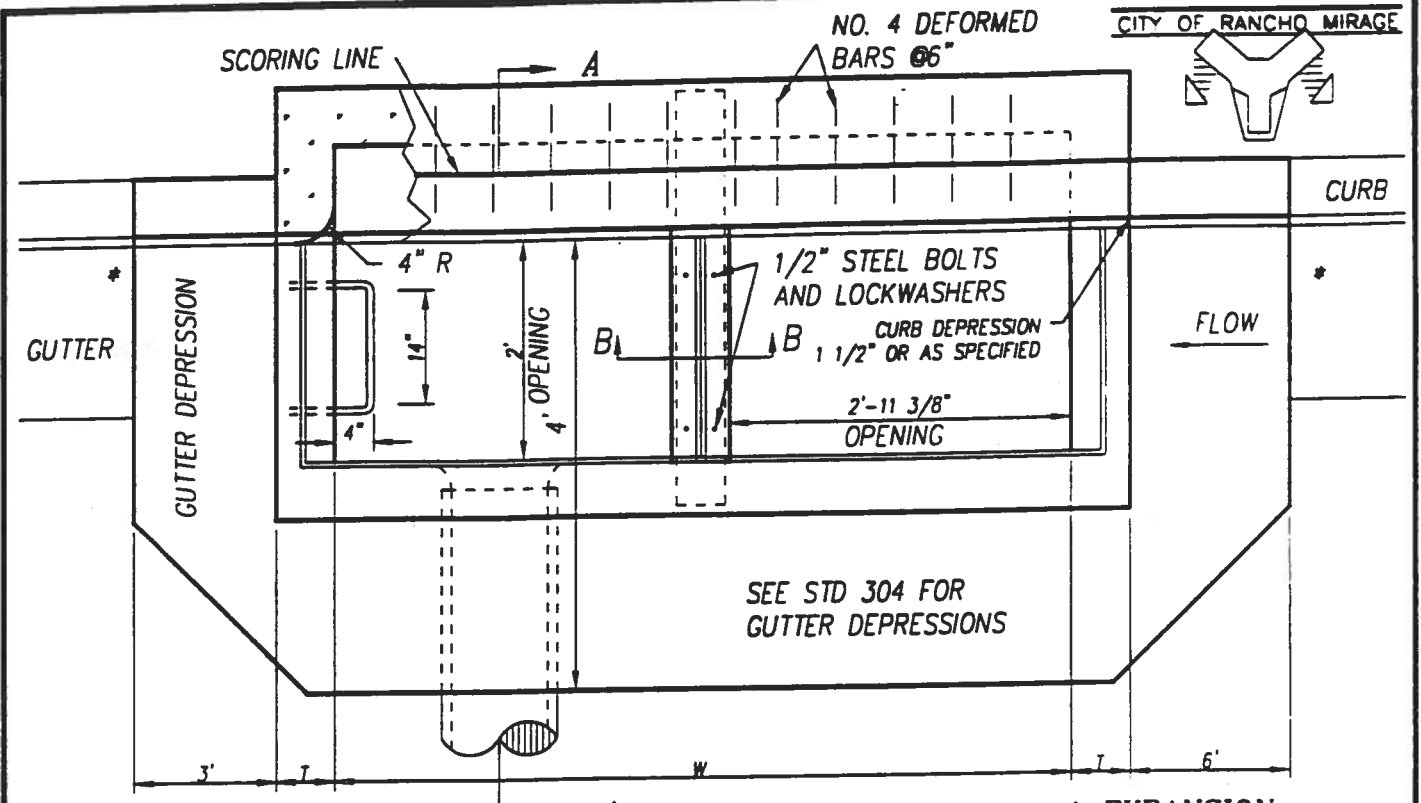
SEE STD 304 FOR GUTTER DEPRESSION



GRATE AND FRAME SHALL BE ALHAMBRA FOUNDRY NO. A-1555 AND A-1557, RESPECTIVELY, OR EQUAL. (BICYCLE PROOF GRATE)

SEE STD 302, SHT 2 OF 2 FOR APPLICABLE NOTES  
 NOTE: USE OF THIS STANDARD REQUIRES PRIOR APPROVAL OF CITY ENGINEER

<b>CITY OF RANCHO MIRAGE</b>		<b>STANDARD DETAIL 301</b>
REVISIONS	<b>GRATE INLET CATCH BASIN</b>	
APPROVED BY: <i>[Signature]</i> 5/31/01 CITY ENGINEER DATE		

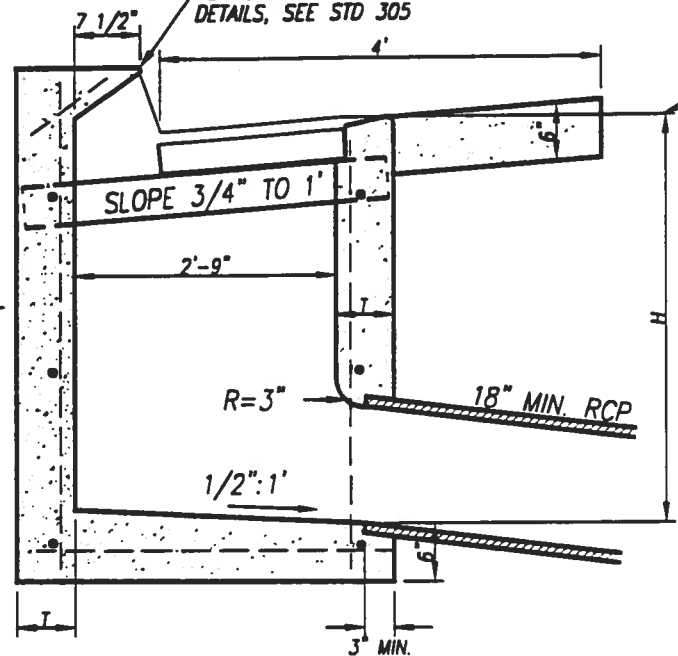


COMPACT BACKFILL TO 90% MIN., WITH THE TOP 12" COMPACTED TO 95% MIN. UNDER PAVING.

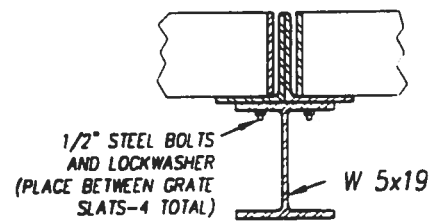
\* EXPANSION JOINTS

FOR CURB BAR AND SUPPORT DETAILS, SEE STD 305

**SECTION A-A**



NORMAL GUTTER FLOW LINE



**SECTION B-B**

SEE NOTES ON STD 302, SHT 2 OF 2  
 NOTE: USE OF THIS STANDARD REQUIRES PRIOR APPROVAL OF CITY ENGINEER

<b>CITY OF RANCHO MIRAGE</b>		<b>STANDARD DETAIL 302 SHT. 1 OF 2</b>
<b>REVISIONS</b>	<b>COMBINATION INLET CATCH BASIN</b>	
	<i>[Signature]</i>	
APPROVED BY:	CITY ENGINEER	DATE
		5/31/01



BASIN SHALL HAVE ONE GRATING UNLESS OTHERWISE SPECIFIED ON IMPROVEMENT PLANS. GRATE AND FRAME SHALL BE ALHAMBRA FOUNDRY A-1555 AND A-1557, RESPECTIVELY, OR APPROVED EQUAL. ONLY BICYCLE PROOF GRATES WILL BE ALLOWED.

CONCRETE SHALL BE CLASS 560-C-3250. WHEN THE BASIN IS TO BE CONSTRUCTED WITHIN THE LIMITS OF A PROPOSED SIDEWALK OR IS CONTIGUOUS TO SUCH A SIDEWALK, THE TOP OF THE BASIN SHALL BE POURED MONOLITHIC WITH THE SIDEWALK, USING CLASS 560-C-3250 CONCRETE FOR THE SIDEWALK. THE TOP OF THE CATCH BASIN SHALL BE FINISHED PER SIDEWALK STANDARDS.

CONNECTION PIPES MAY BE PLACED IN ANY POSITION AROUND THE WALLS, PROVIDED THEY POINT IN THE PROPER DIRECTION AND THE POSITION IS OTHERWISE CONSISTENT WITH THE IMPROVEMENT PLAN.

CURVATURE OF THE END-WALLS AT CURB OPENING SHALL BE FORMED BY CURVED FORMS AND SHALL NOT BE MADE BY PLASTERING.

**DIMENSIONS:**

- GRATE SHALL BE PARALLEL TO PLANE OF GUTTER SLOPE. 3/4" TO 1'
- T = 6" IF H = 8' OR LESS
- T = 8" IF H IS GREATER THAN 8' AND LESS THAN 20'
- H = 3'-6", UNLESS OTHERWISE SPECIFIED ON IMPROVEMENT PLANS
- W = 2'-11 3/8" FOR ONE GRATING. ADD 3'-5 3/8" FOR EACH ADDITIONAL GRATING.

EXPOSED SURFACES OF THE CATCH BASIN SHALL CONFORM IN SLOPE, GRADE, COLOR, FINISH, AND SCORING TO EXISTING IMPROVEMENTS ADJACENT TO THE BASIN. WHERE NO SIDEWALK EXISTS, THE TOP SHALL BE FINISHED TO CONFORM TO STANDARD SIDEWALK SLOPE AND FINISH. WHERE NO CURB EXISTS, THE BATTER OF EXPOSED END WALLS ABOVE THE STREET SURFACE SHALL CONFORM TO BATTER FOR STANDARD CURB.

FLOOR OF BASIN SHALL BE GIVEN A STEEL-TROWELLED FINISH.

OUTLET PIPE SHALL BE TRIMMED TO THE FINAL SHAPE AND LENGTH BEFORE CONCRETE IS POURED.

REINFORCING STEEL SHALL BE NO. 4 DEFORMED BARS. CLEARANCE SHALL BE 1 1/2" FROM INSIDE OF BOX. SPACING IS AS SHOWN IN TOP SLAB AND AT 18" CENTERS IN SIDES OF BOX.

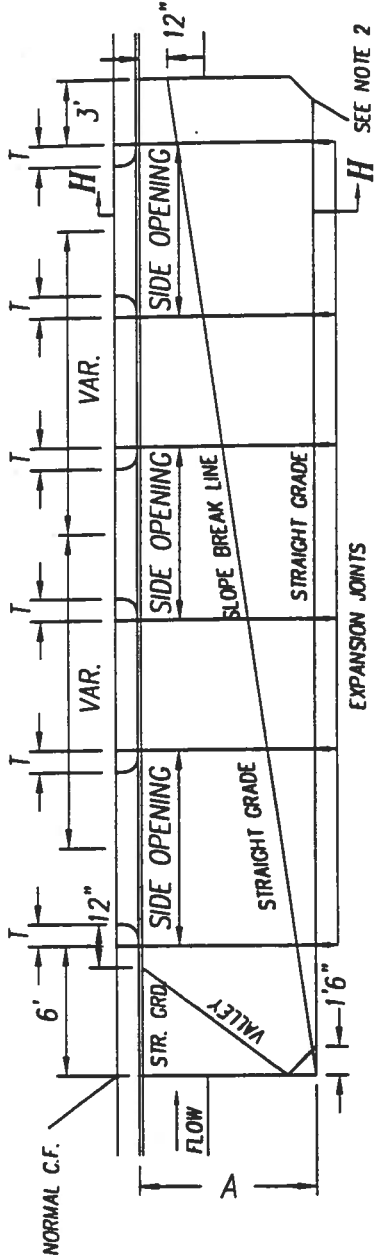
SLOPE OF FLOOR PARALLEL WITH CURB SHALL BE 1:12 UNLESS OTHERWISE SPECIFIED. SLOPE FLOOR FROM ALL DIRECTIONS TO THE OUTLET.

**STEPS:**

- 3/4" PLAIN ROUND GALVANIZED STEEL STEPS ARE REQUIRED AS FOLLOWS:
- ALHAMBRA FDY. A-3320 OR EQUAL
- IF H IS 3.5' OR LESS, NO STEPS ARE REQUIRED.
- IF H IS MORE THAN 3.5', AND NOT MORE THAN 5', INSTALL ONE STEP 16" ABOVE FLOOR OF BASIN.
- IF H IS MORE THAN 5', INSTALL STEPS 12" APART, WITH THE TOP STEP 6" BELOW THE TOP OF GRATING. ALL STEPS SHALL BE 4" CLEAR FROM THE WALL EXCEPT THE TOP STEP, WHICH SHALL BE 2 1/2" CLEAR FROM THE WALL AND ANCHORED NOT LESS THAN 5" IN WALL OF BASIN.

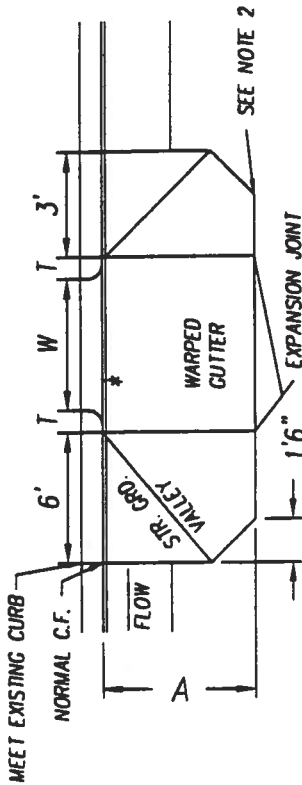
**NOTE: USE OF THIS STANDARD REQUIRES PRIOR APPROVAL OF CITY ENGINEER**

CITY OF RANCHO MIRAGE		STANDARD  DETAIL  302  SHT. 2 OF 2
REVISIONS	COMBINATION INLET CATCH BASIN NOTES	
APPROVED BY:  5/31/01 CITY ENGINEER      DATE		

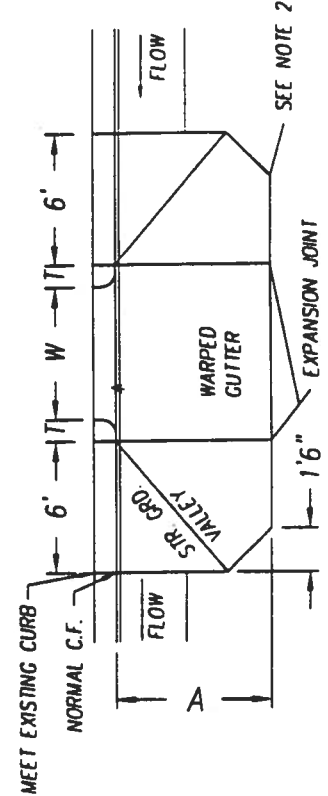


**CASE A - MULTIPLE C.B.**

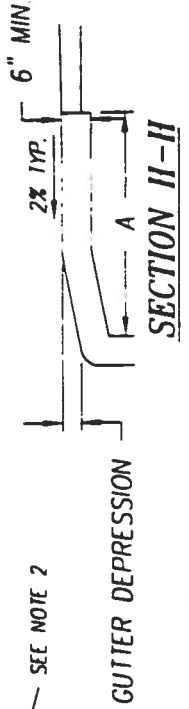
- NOTES:**
1. GUTTER DEPRESSION SHALL BE CASE B UNLESS OTHERWISE NOTED ON PROJECT DRAWINGS.
  2. ELEVATION OF OUTER CORNERS SHOWN ON PROJECT. IF NO ELEVATIONS ARE SPECIFIED, THE OUTER EDGE GUTTER DEPRESSION SHALL CONFORM TO FINISHED STREET SURFACE.
  3. A=4 FEET UNLESS OTHERWISE SPECIFIED.  
T= (SEE STD 300 SHT. J OF J)
  4. WHERE NO CURB EXIST, CURBS SHALL BE CONSTRUCTED BETWEEN ENDS OF GUTTER DEPRESSION. CURB SECTION SHALL CONFORM TO A STANDARD CURB APPROVED BY THE CITY ENGINEER.
  5. DEPRESSION SHALL BE CLASS 560-C-3250 P.C. CONCRETE, PLACED OVER COMPACTED NATIVE OR AGGREGATE BASE MATERIALS. COMPACTION SHALL BE 90% RELATIVE TO MAXIMUM, EXCEPT IN THE TOP FOOT WHERE THE RELATIVE COMPACTION SHALL BE 95%, MINIMUM.



**CASE B  
(CONTINUOUS GRADE)**



**CASE C  
(SAG)**



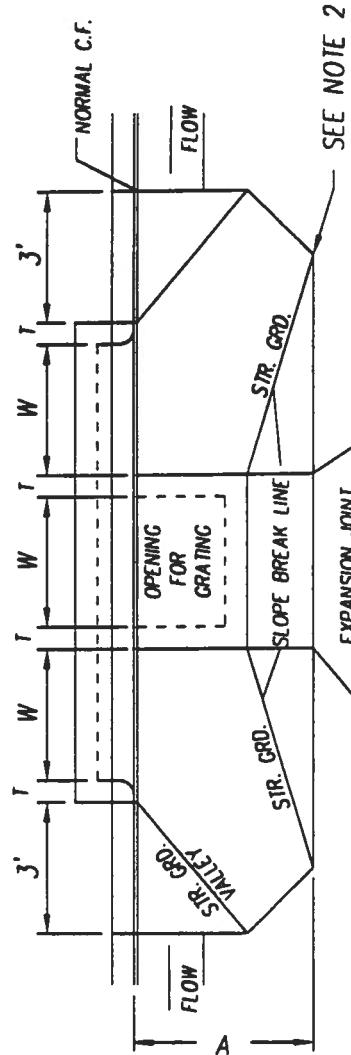
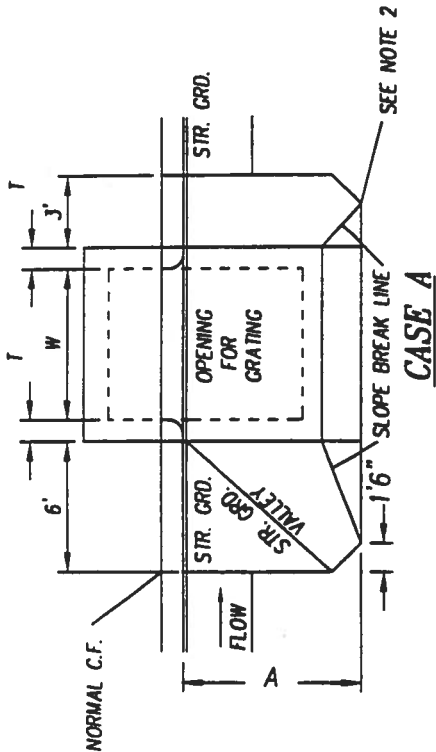
- CATCH BASIN OPENING = NORMAL CURB HEIGHT + 4 INCHES UNLESS OTHERWISE SPECIFIED

<b>CITY OF RANCHO MIRAGE</b>		<b>STANDARD</b>
<b>REVISIONS</b>	<b>GUTTER DEPRESSION FOR CURB OPENING CATCH BASIN</b>	<b>DETAIL</b>
	<i>[Signature]</i> 5/31/01	<b>303</b>
APPROVED BY: CITY ENGINEER		DATE



NOTES:

1. GUTTER DEPRESSIONS SHALL BE CASE "A" (SEE STD 302) UNLESS OTHERWISE SPECIFIED.
2. ELEVATIONS AT OUTER CORNERS SHOWN ON THE PROJECT DRAWINGS. IF NO ELEVATIONS ARE SPECIFIED, THE OUTER EDGE OF THE GUTTER DEPRESSION SHALL CONFORM TO THE FINISHED STREET SURFACE.
3. A = 4 FEET UNLESS OTHERWISE SPECIFIED.  
T = SEE STD 302, SHIT 2 OF 2  
W = SEE STD 302, SHIT 2 OF 2
4. WHERE NO CURB EXISTS, CURB SHALL BE CONSTRUCTED BETWEEN TO ENDS OF GUTTER DEPRESSION. CURB SECTION SHALL CONFORM TO A STD CURB APPROVED BY THE CITY ENGINEER.
5. DEPRESSION SHALL BE CLASS 560-C-3250 P.C. CONCRETE, PLACED OVER COMPACTED NAIVE OR AGGREGATE BASE MATERIALS. COMPACTION SHALL BE 90% RELATIVE TO MAXIMUM, EXCEPT IN THE TOP FOOT WHERE THE RELATIVE COMPACTION SHALL BE 95%, MINIMUM.



CITY OF RANCHO MIRAGE

STANDARD

REVISIONS

GUTTER DEPRESSION FOR  
GRATE OPENING CATCH BASIN

DETAIL

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

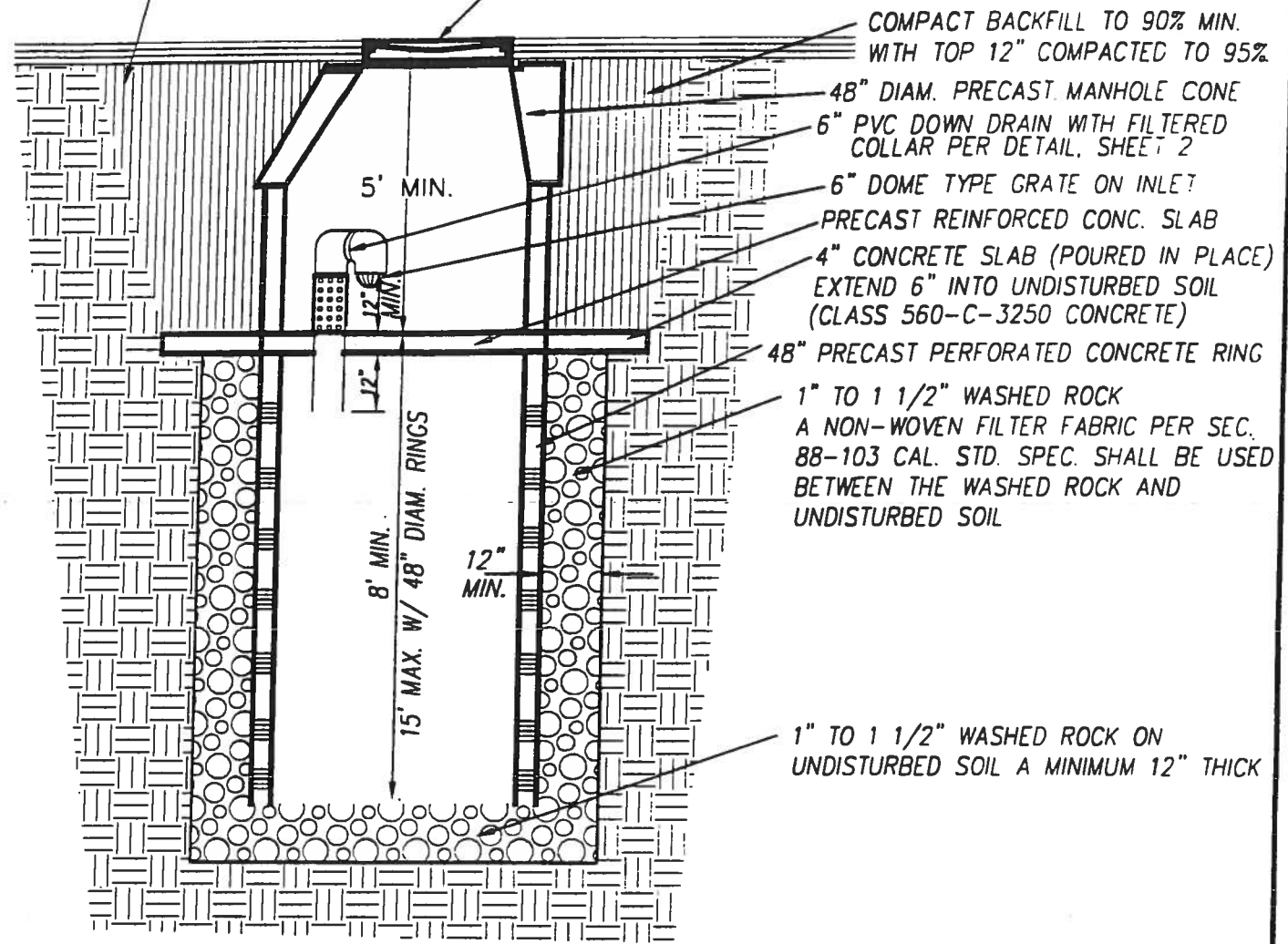
304





FOR INSTALLATION IN STREET AREAS, A CLASS 100-E-100 SLURRY SHALL BE USED IN LIEU OF COMPACTED BACKFILL. A MIN. 3" A.C. SHALL BE PLACED OVER SLURRY.

24" DIAM. C.I. GRATE & FRAME  
ALHAMBRA FOUNDRY A-1200 OR APPROVED EQUAL. ADAPT AS REQUIRED FOR 'V' GUTTER AND CURB & GUTTER INSTALLATION. SET RIM TO GRADE WITH PRECAST RISERS.



COMPACT BACKFILL TO 90% MIN. WITH TOP 12" COMPACTED TO 95%

48" DIAM. PRECAST MANHOLE CONE

6" PVC DOWN DRAIN WITH FILTERED COLLAR PER DETAIL, SHEET 2

6" DOME TYPE GRATE ON INLET

PRECAST REINFORCED CONC. SLAB

4" CONCRETE SLAB (POURED IN PLACE) EXTEND 6" INTO UNDISTURBED SOIL (CLASS 560-C-3250 CONCRETE)

48" PRECAST PERFORATED CONCRETE RING

1" TO 1 1/2" WASHED ROCK  
A NON-WOVEN FILTER FABRIC PER SEC. 88-103 CAL. STD. SPEC. SHALL BE USED BETWEEN THE WASHED ROCK AND UNDISTURBED SOIL

1" TO 1 1/2" WASHED ROCK ON UNDISTURBED SOIL A MINIMUM 12" THICK

NOTES:

ALL JOINTS ABOVE THE LEACHING AREA SHALL BE MORTAR SEALED INSIDE AND OUT.  
MAX. PERCOLATION RATE = 1"/HR, OR HALF OF AN ENGINEERED PERCOLATION TEST UP TO 5"/HR. MAX.  
THE SURFACE AREA FOR PERCOLATION MAY BE THE OUTSIDE AREA OF THE GRAVEL (6.5' DIAM. TYP.)  
THE HIGHEST RUNOFF FROM A 100 YEAR FREQUENCY STORM, NO MATTER WHAT TIME LENGTH, SHALL BE UTILIZED WHEN CALCULATING THE STORAGE CAPACITY NEEDED IN A DRYWELL.

CITY OF RANCHO MIRAGE

STANDARD  
DETAIL

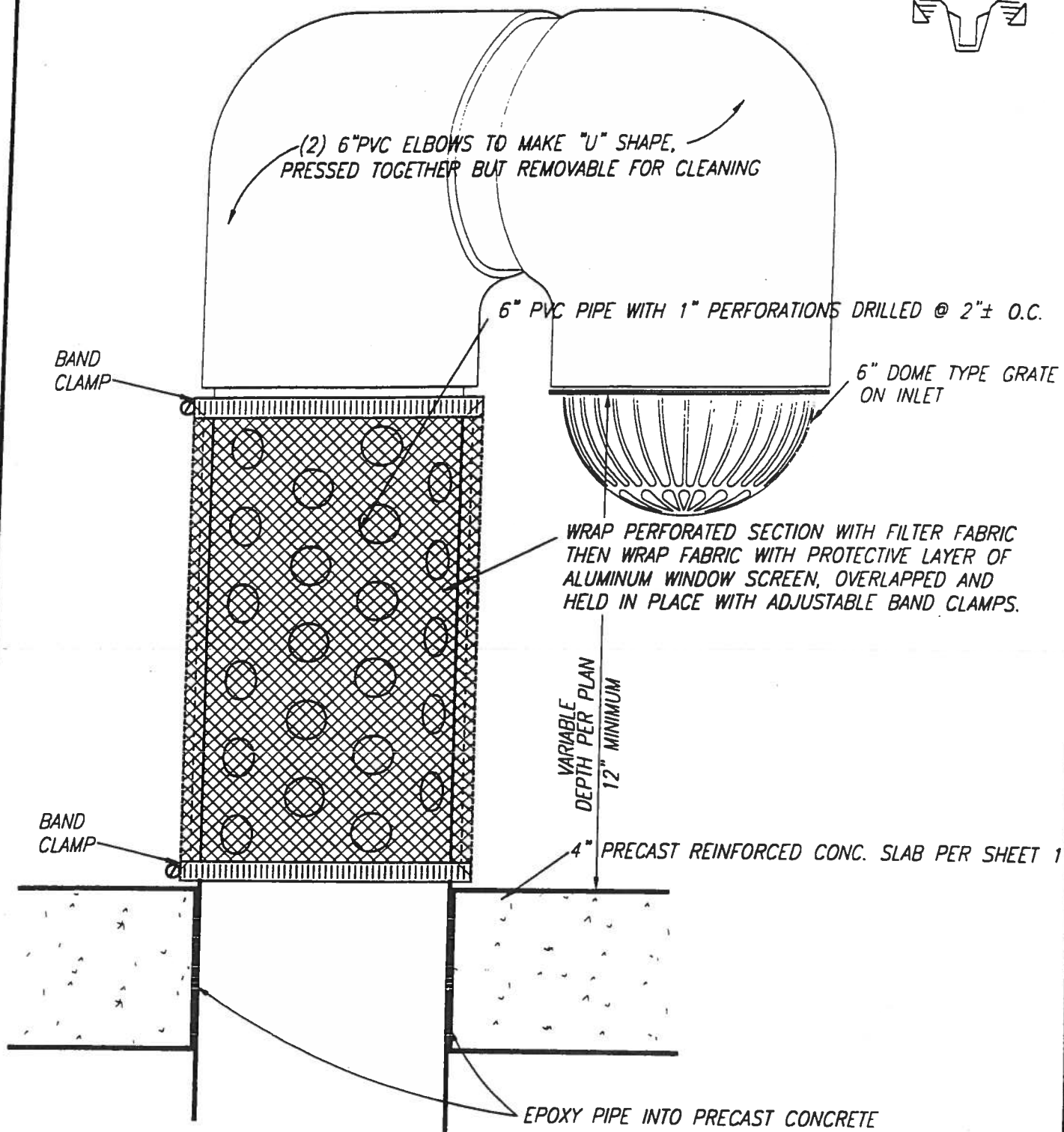
DRYWELL DETAIL

306

REVISIONS

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

SHEET 1 OF 2



CITY OF RANCHO MIRAGE

STANDARD

REVISIONS

**FILTERED COLLAR  
FOR STANDARD DRYWELL**

DETAIL

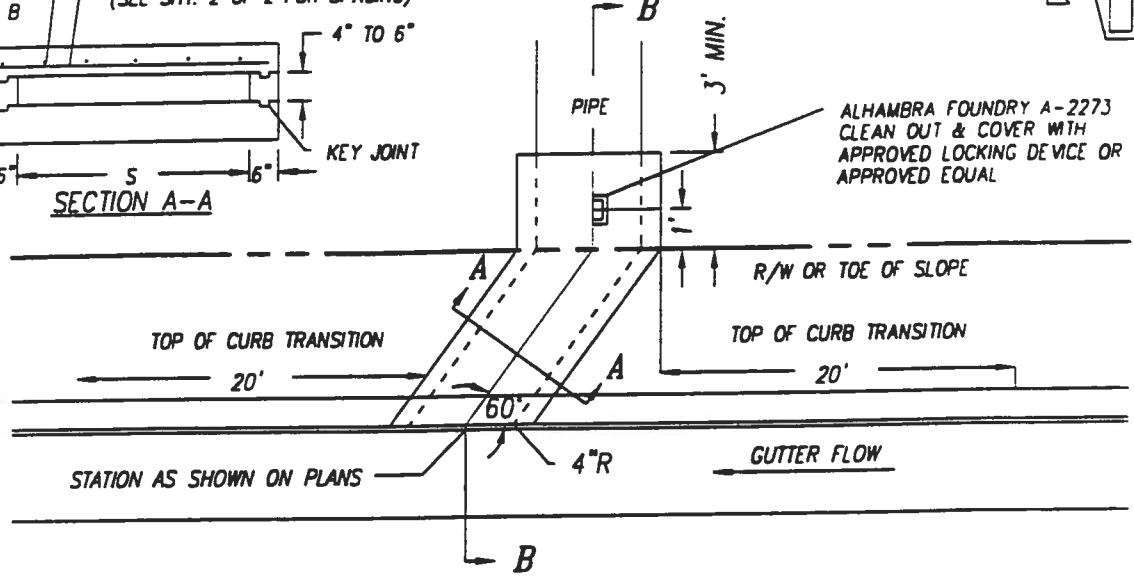
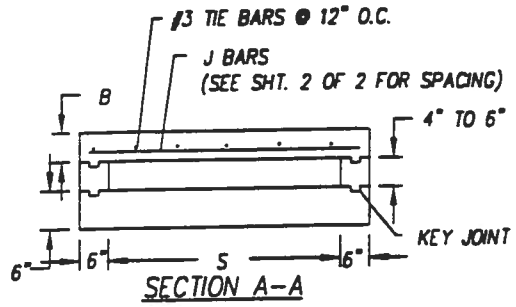
*William G. ...*

5/31/01

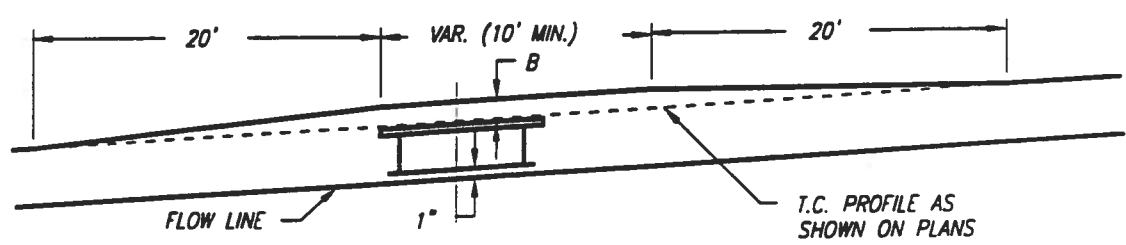
**306**

APPROVED BY: CITY ENGINEER DATE

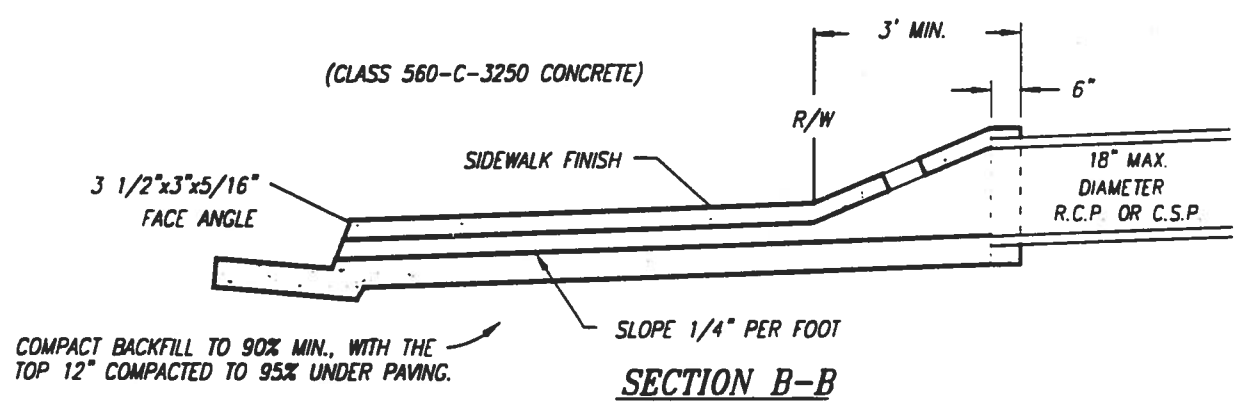
SHEET 2 OF 2



**PLAN**



**PROFILE**



**SECTION B-B**

COMPACT BACKFILL TO 90% MIN., WITH THE TOP 12\"/>

SHT. 1 OF 2

**CITY OF RANCHO MIRAGE**

STANDARD

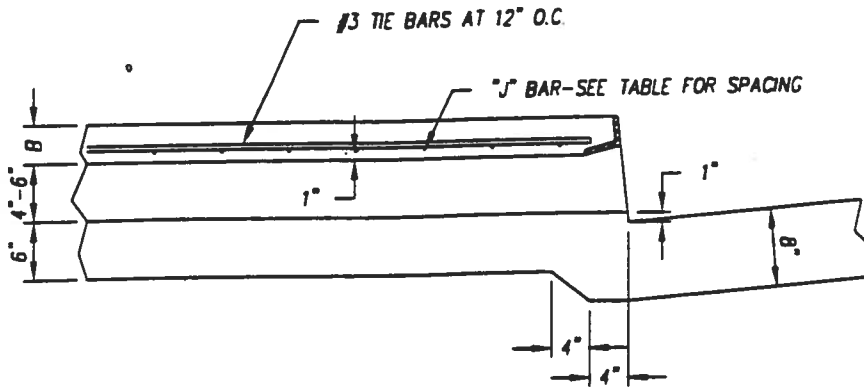
REVISIONS

**UNDERWALK DRAIN**

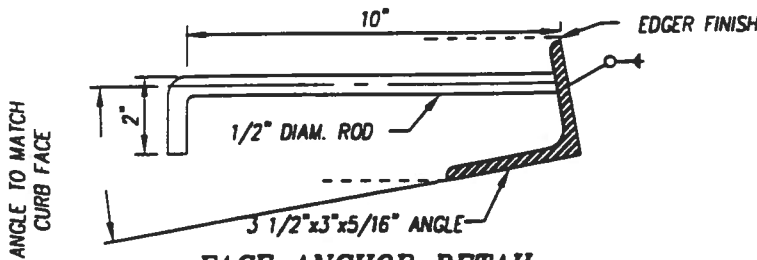
DETAIL

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

**307**



**OUTLET DETAIL**



**FACE ANCHOR DETAIL**

SPAN S	B	STEEL SCHEDULE J-BARS		
		SIZE	SPACING	LENGTH
2' 0"	3"	#3	7"	2' 9"
2' 6"	"	"	"	3' 3"
3' 0"	"	"	"	3' 9"
3' 6"	"	"	6"	4' 3"
4' 0"	"	"	5"	4' 9"
4' 6"	4"	"	6 1/2"	5' 3"
5' 0"	"	"	5"	5' 9"
5' 6"	"	"	4"	6' 3"
6' 0"	"	"	3 1/2"	6' 9"

LENGTH OF CURB OPENING	NO. OF ANCHORS
3' OR LESS	2
3' 6" TO 6'	3

**NOTES**

1. FLOOR OF UNDERWALK DRAIN SHALL HAVE A STEEL TROWEL FINISH.
2. ALL EXPOSED METAL SHALL BE GALVANIZED AFTER FABRICATION.
3. HEIGHT OF CURB OPENING WILL VARY WITH TYPE OF CURB.
4. SPAN "S" AND HEIGHT OF CURB OPENING WILL BE DETERMINED FROM THE REQUIRED HYDRAULIC CAPACITY AND LIMITED TO THE DIMENSION IN THE ABOVE TABLE.
5. REINFORCING STEEL SHALL BE 1" CLEAR TO INSIDE OF CULVERT UNLESS OTHERWISE SHOWN.
6. SPAN "S" AND HEIGHT OF OPENING AND CURB FACE SHALL BE NOTED ON THE PLANS.

SHT. 2 OF 2

**CITY OF RANCHO MIRAGE**

**STANDARD**

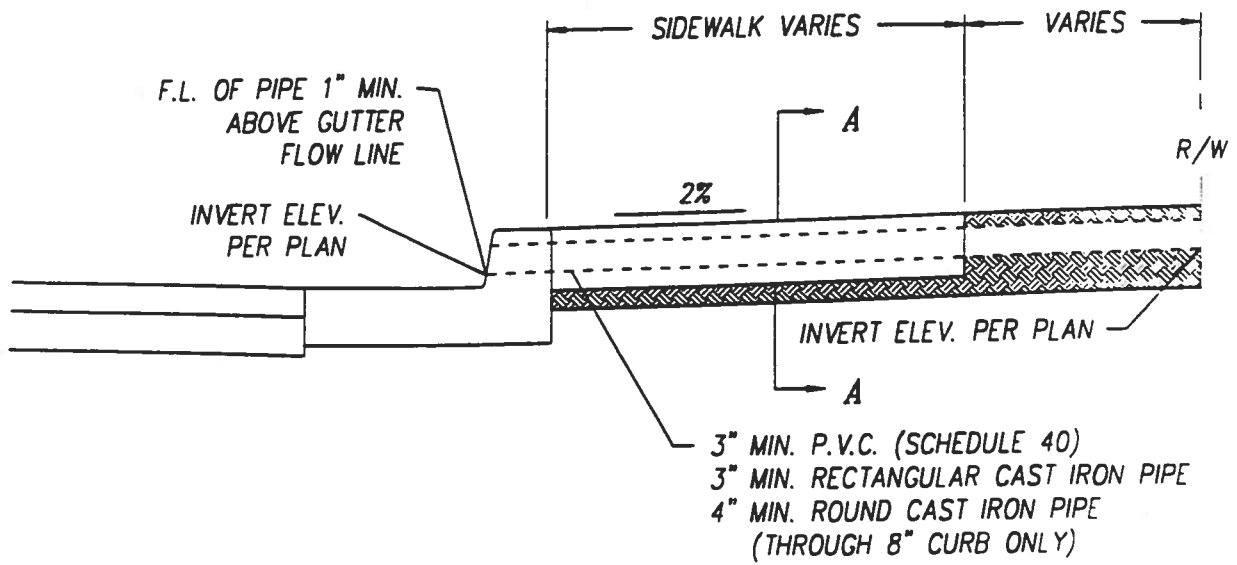
REVISIONS

**UNDERWALK DRAIN**

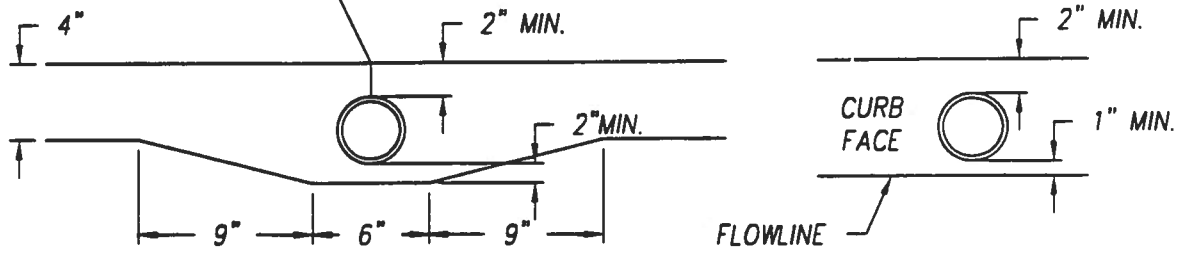
**DETAIL**

APPROVED BY: *William G. Lewis* DATE: 5/31/01

**307**



INSTALL POLYETHYLENE PLASTIC JOINT MATERIAL "QUICK JOINT" OR EQUAL



**SECTION A-A**

NOTE: DRAINS 4" AND LARGER TO BE CONSTRUCTED THROUGH 8" MINIMUM CURBING UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER. SEE STD 307 FOR CURB TRANSITION. WHEN THE DRAIN IS TO BE INSTALLED THROUGH EXISTING CURBING, THE CURB SHALL BE CORE DRILLED.

**CITY OF RANCHO MIRAGE**

**STANDARD**

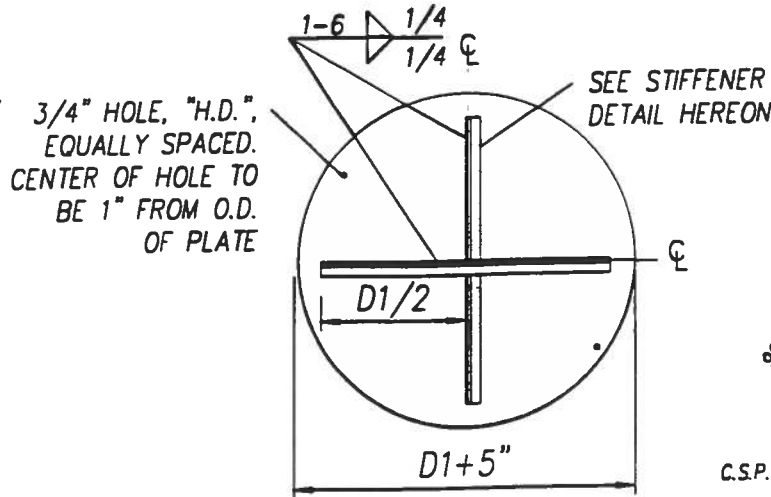
REVISIONS

**PRIVATE DRAIN THROUGH CURB**

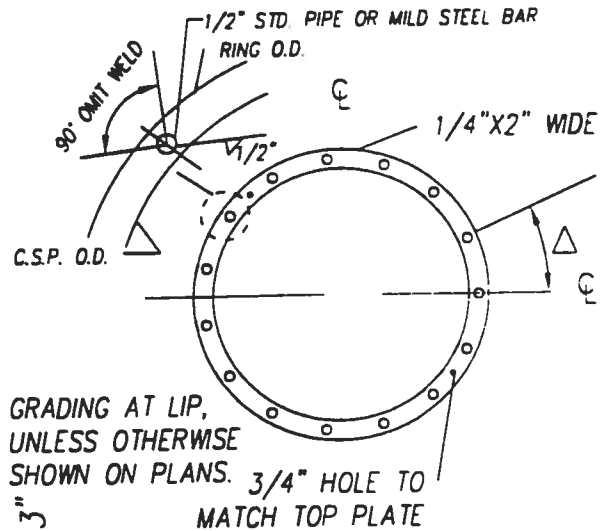
**DETAIL**

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

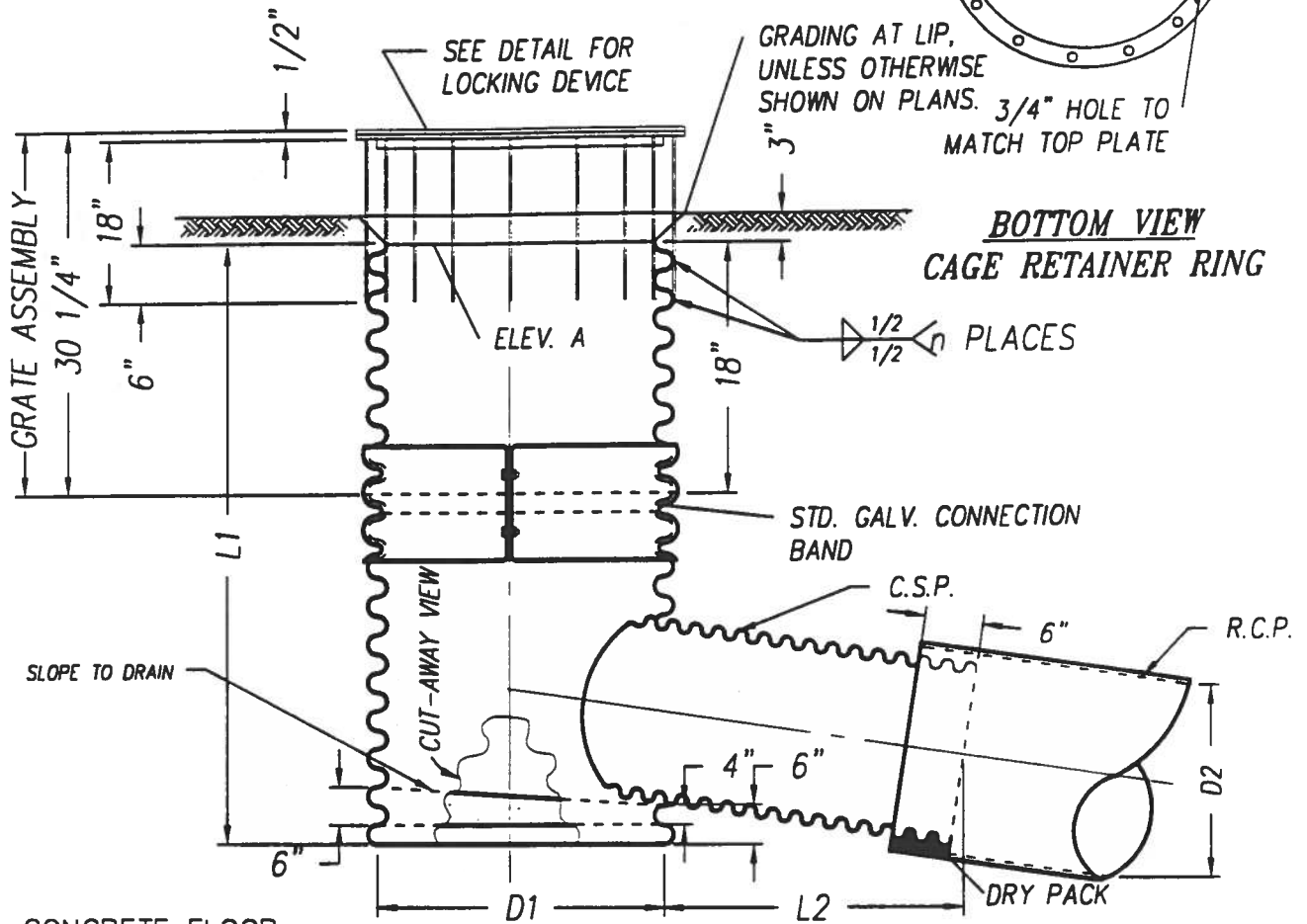
**308**



**BOTTOM VIEW  
TOP PLATE**



**BOTTOM VIEW  
CAGE RETAINER RING**



CONCRETE FLOOR -  
CLASS 560-C-3250 P.C.C. **ELEVATION**

**CITY OF RANCHO MIRAGE**

STANDARD

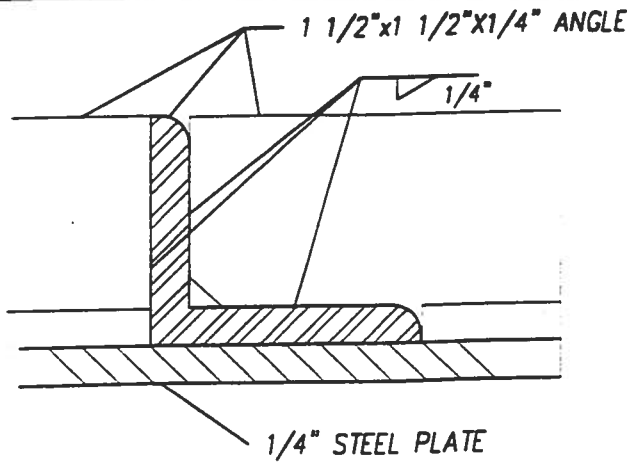
REVISIONS

**CMP RISER INLET**

DETAIL

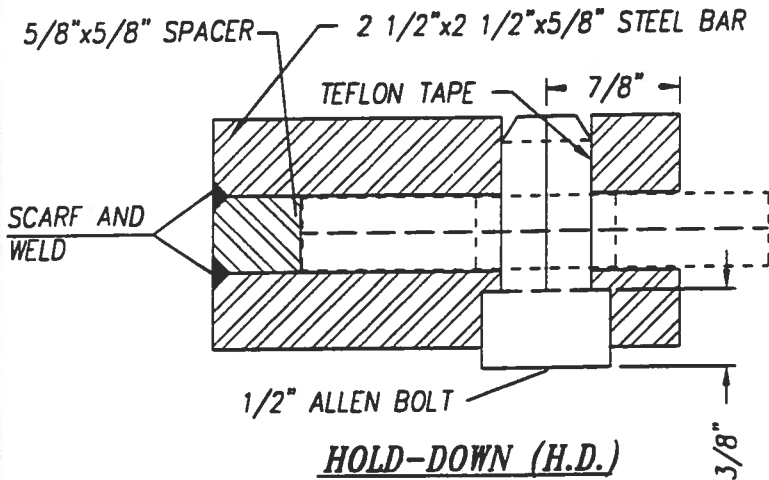
*William G. Cross* 5/31/01  
APPROVED BY: CITY ENGINEER DATE

**309**  
SHT. 1 OF 2



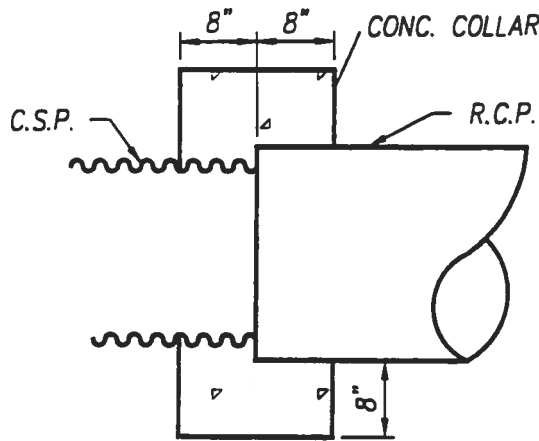
**DETAIL-PLATE STIFFENER**

D1	Δ	n	"HD"
18"	40°	9	
24"-27"	30°	12	2
30"-33"	20°	15	
36"-39"	20°	18	3
42"-45"	16.5°	22	
48"-51"	14.5°	25	
54"-57"	13°	28	4
60"-63"	11.5°	31	
66"	10.5°	34	



**HOLD-DOWN (H.D.)**

D1 RISER DIAMETER	C.S.P. GAUGE
18"-27"	16
30"-39"	14
42"-48"	12
51"-66"	10



**ALTERNATE JUNCTION**

**NOTES:**

1. RISER PIPE SHALL EXTEND TO "ELEV. A".
2. ELEVATION A, D1, D2 L1, L2 ARE SHOWN ON PLANS.
3. CORRUGATED STEEL PIPE SHALL CONFORM TO AASHO M-36.
4. GRATE ASSEMBLY SHALL BE GALVANIZED AFTER FABRICATION.
5. FOR D1=54" AND LARGER, WELD 1 1/2"x1 1/2"x1/4" ANGLES TO PLATE WITH 1" WELDS AT 6" O.C.
6. n=NUMBER OF BARS ON GRATE ASSEMBLY.
7. GAUGE OF PIPE FOR DIAMETER D2 SHALL BE SAME AS FOR RISER.
8. RISER AND STUB SHALL BE SHOP FABRICATED AND GALVANIZED AFTER WELDING.

**CITY OF RANCHO MIRAGE**

**STANDARD**

REVISIONS

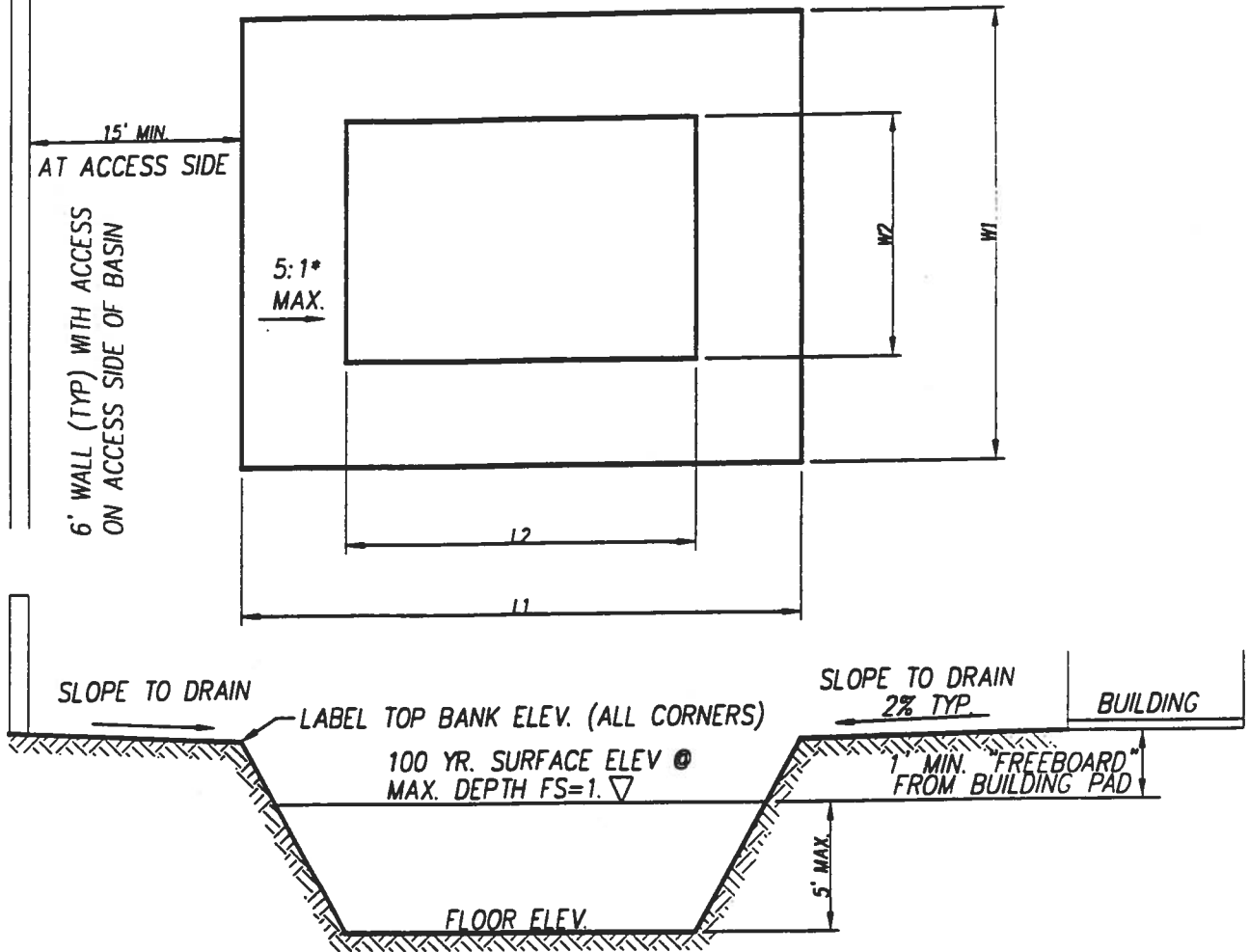
**CMP RISER INLET**

**DETAIL**

**309**

APPROVED BY: *William G. ...* DATE: *5/31/01*

**SHT. 2 OF 2**



**DESIGN CRITERIA**

MAX. PERCOLATION RATE = 1"/HR.

MAX. DEPTH AT PEAK STORAGE = 5'

FACTOR OF SAFETY F.S. = 1.0 MINIMUM

ONE FOOT MINIMUM "FREEBOARD" BELOW LOWEST BUILDING PAD TO MAXIMUM WATER LEVEL

THE BASIN SHALL BE DESIGNED TO RETAIN THE RUNOFF FROM THE WORST CASE OF THE 1 HR., 3 HR. 6 HR., OR 24 HR. DURATION, 100 YEAR FREQUENCY STORM.

SEE SHT. 2 OF 2 FOR MINIMUM PLAN REQUIREMENTS

\* SLOPES STEEPER THAN 5:1 WILL REQUIRE EROSION CONTROL APPROVED BY THE CITY ENGINEER

**CITY OF RANCHO MIRAGE**

**STANDARD**

REVISIONS

**RETENTION BASIN**

**DETAIL**

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

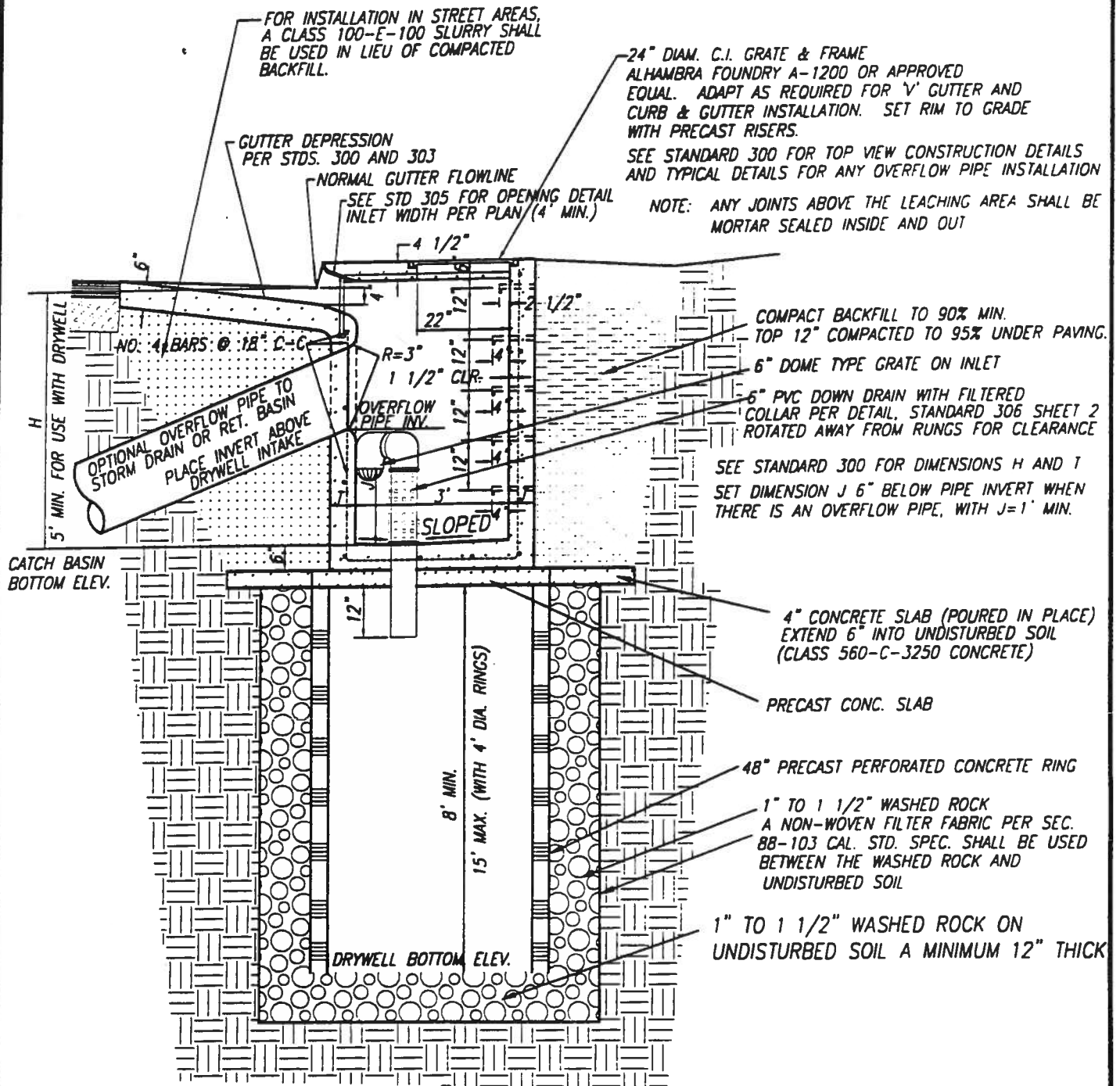
**310**  
SHT. 1 OF 2



**AT A MINIMUM, PLANS SHALL INCLUDE THE FOLLOWING INFORMATION:**

1. BOUNDARY (LOT LINES) INCLUDING BEARING AND DISTANCES
2. SLOPE SYMBOLS, OR FINISH CONTOURS, WITH SLOPE RATIOS OR PERCENTAGES
3. ELEVATION LABELS FOR: BOTTOM, WATER SURFACE AT S.F.=1, AND TOP  
(HYDROLOGY CALCULATIONS SHALL BE SUBMITTED VERIFYING BASIN AREA, DEPTH, AND VOLUME.)
4. DIMENSIONS (LENGTH, WIDTH AND DEPTH) OR SCALED DRAWING.
5. FINISHED SURFACE ELEVATIONS FOR IDENTIFYING THE FLOW PATHS
6. RIP-RAP OR APPROPRIATE EROSION CONTROL IF SLOPES EXCEED 20% (5:1)
7. ANY STRUCTURES, PIPES, HEADWALLS, RIP-RAP, DRYWELLS, ETC. SHOWN WITH REFERENCE TO STREET PLANS, STORM DRAIN PLANS, OR GRADING PLANS  
(A DRYWELL IS RECOMMENDED FOR LARGER RETENTION BASINS AS A WAY OF INTERCEPTING "NUISANCE WATER" THAT MIGHT CAUSE A CONSTANT SWAMPY AREA TO DEVELOP IN THE RETENTION BASIN. FLOWS TO CVWD CHANNELS OR TO LAKES TYPICALLY REQUIRE A DRYWELL TO INTERCEPT STREET RUNOFF. MAINTENANCE IS EASIEST IF THE DRYWELL IS AT THE STREET SO VACUUM TRUCKS CAN ACCESS THEM SEE STANDARD DRAWINGS 306 AND 311.)

<b>CITY OF RANCHO MIRAGE</b>		<b>STANDARD</b>  <b>DETAIL</b>  <b>310</b>  <b>SHT. 2 OF 2</b>
REVISIONS	<b>RETENTION BASIN</b>	
	5/31/01 APPROVED BY: CITY ENGINEER DATE	

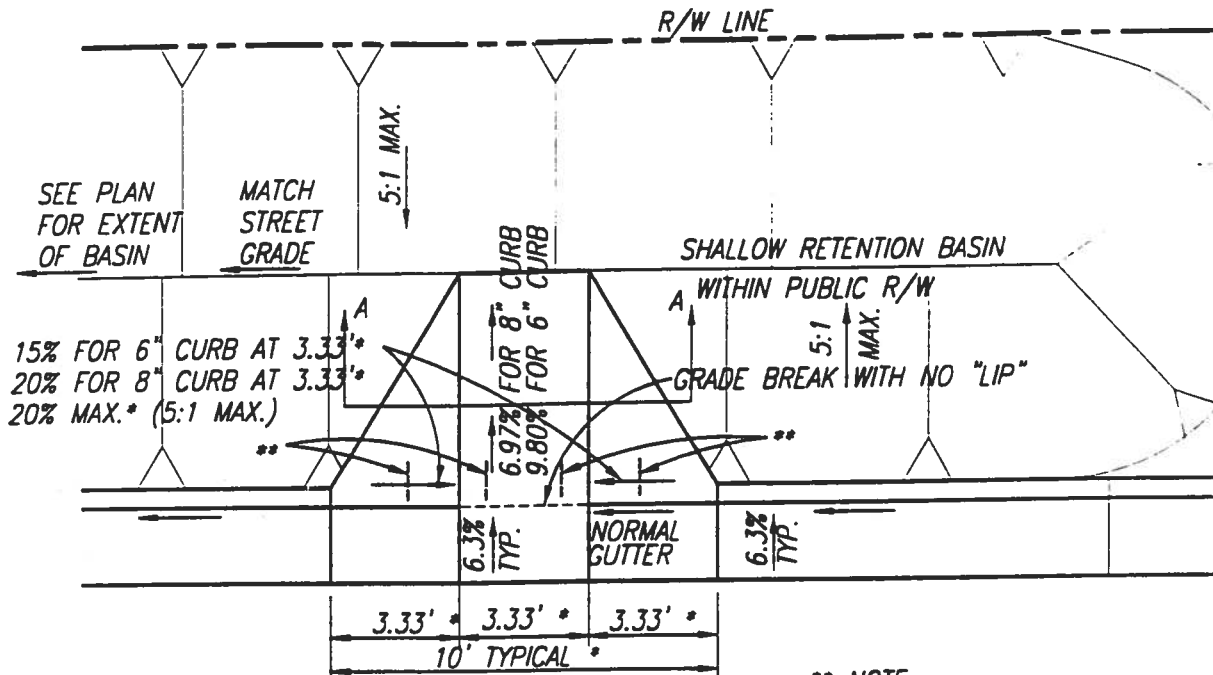
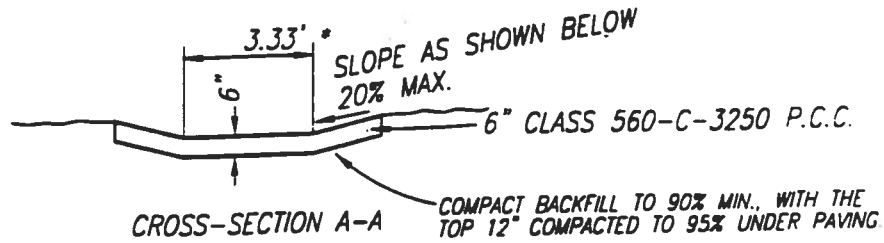


**CITY OF RANCHO MIRAGE**

**STANDARD  
DETAIL**

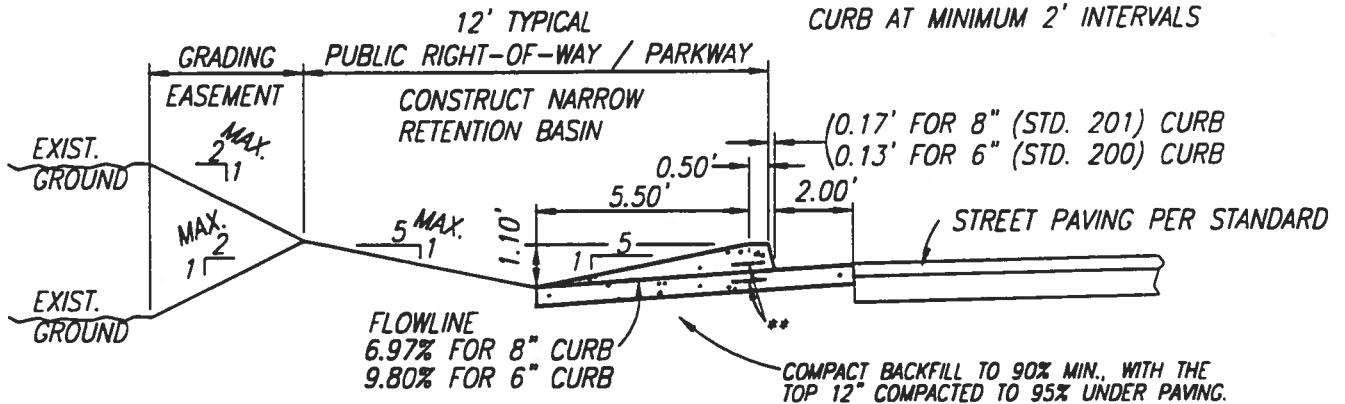
REVISIONS	<b>COMBINATION CURB INLET CATCH BASIN / DRYWELL</b>
	(SEE STDS. 300, 303, 305 AND 306 FOR ADDITIONAL DETAILS)
	<i>William E. ...</i> 5/31/01
	APPROVED BY: CITY ENGINEER DATE

**311**



(\* = VARIABLE TO FIT BETWEEN EXISTING JOINTS AND TO ADJUST FOR STREET GRADES. NOTE THAT SIDE LENGTHS USUALLY WON'T MATCH.)

\*\* NOTE:  
IF DRAIN IS CUT INTO EXISTING CURB RATHER THAN BEING POURED IN ONE PIECE, THE ATTACHED PORTIONS SHOULD BE HELD IN PLACE BY REBAR "DOWELS" DRILLED AND EPOXIED INTO THE EXISTING CURB AT MINIMUM 2' INTERVALS



CITY OF RANCHO MIRAGE

STANDARD

REVISIONS

PARKWAY RETENTION DRAIN

DETAIL

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

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