

STANDARD DRAWINGS

STANDARD DRAWINGS

TOWN OF YUCCA VALLEY, CALIFORNIA

Introduction

The Street Improvement Standards presented herein have been developed to provide assistance to Engineers, Architects, and Developers when preparing Development plans in conjunction with Development Code and General Plan requirements.

General Street Plan

Street Classifications are shown on the General Plan, a copy of those are provided herein. Streets not indicated by an appropriate symbol are classified as minor streets with a minimum right-of-way width of sixty (60) feet, except rural streets, fifty (50) feet. Where proposed street improvements join existing non-standard improvements, the Community Development Department, Engineering Division, should be contacted for design details and width requirements. Conferences with the Town Planning and Engineering staff are encouraged for all projects prior to preparation of final working drawings.

Town Participation

In the following circumstances, Town participation to defray the cost of required street improvements is authorized subject to prior approval by the Town Council:

- 1. 100% of the cost of relocating or modifying existing traffic signals unless required as part of the Development Conditions of Approval.
- 2. For assessment districts with frontage or side frontage on major or secondary thoroughfares, the cost of all asphalt concrete paving in excess of twenty (20) feet in width, measured on one side of street centerline.
- 3. 100% of the cost of all asphalt concrete paving on the opposite side of street centerline from the project, unless required as part of the Development Conditions of Approval.

Dedication of Right of Way

Street right-of-way dedications required by the Development Code and General Street Plan are measured from the centerline of the street. Unless otherwise approved by Resolution of the Town Council, centerline shall be determined as follows:

1. All section line streets – the section line.

- 2. All subdivisions for interior streets the center of the right-of-way dedicated on the subdivision map, for boundary half-streets, the tract boundary.
- 3. All quarter section line streets the North-South and East-West midsection lines.
- 4. All other street in the following order of precedence:
 - As shown on the General Street Plan.
 - Along property lines.
 - By negotiation between Developer and Town.

Plats and deeds for dedication of right-of-way for private projects shall be prepared by the Developer's Engineer, and for the Town projects by the Engineering Division.

Replacement of Non-Standard Improvements

Unless otherwise approved by the Planning Commission and/or Town Council, non-standard existing street improvement shall be removed and replaced with standard improvements. Non-standard improvements are defined as roll curbs; curb and gutter to improper line, grade, or distance from centerline; defective asphalt concrete paving, berm, and Portland cement concrete work of all types; and curb radii less than twenty-five (25) feet.

Special Sub-Grade Conditions

Standard Plans which indicate compacted native base under asphalt concrete paving are based on an "R" value of 60 or higher and represent approximately 95% of prevailing native soil in the area. Subgrade over a base with an "R" value below 60 shall be designed by the Engineer after consultation with the Town Engineer regarding the traffic index of the street in question.

Maintenance of Street Improvements

Improvements within the dedicated right-of-way shall be maintained by the Town except as follows:

- 1. Those streets that are not recognized as part of the Maintained Road System.
- 2. Private streets (easements for emergency services and utilities) shall be maintained by the Owner.

Placement of Walls or Fences on Front or Side Property Line

Height and placement of walls and fences shall be in accordance with the Development Code. Landscaping required on the street side of a wall or fence shall be placed outside of the street right-of-way and the wall or fence set back from the property line sufficiently to accommodate the landscaping, the parkway

area between the back of the sidewalk and the property line shall be landscaped and maintained by the Developer and his or her successors, subject to prior approval of the Planning Division and the issuance of an encroachment permit. Structures in the right-of-way extending above the finished grade line shall not be allowed.

Utilities

All utilities shall be installed in the street prior to pavement construction.

Permits Required

Prior to commencement of construction work in the street right-of-way, an Encroachment Permit shall be obtained from the Engineering Division, subject to payment of a fee in accordance with the Comprehensive Fee Schedule of the Town of Yucca Valley

Future Standard Drawings

From time to time revisions to the Standard Drawings will be made and new standards added. Each recipient of the Standard Drawings should determine that his booklet is kept current. Notice of revisions or additions to the Standard Drawings will be posted on the Town of Yucca Valley website and made available to all Standard Drawing holders.

Purchase of Standard Drawings

Standard Drawings may be purchased from the Engineering Division, at the following prices:

Town of Yucca Valley Standard Drawings for Public Works Construction \$30.00 each.

Standard Drawings

Section 1 – Typical Street Sections Drawing No. Description

<u>Drawing No.</u>	<u>Description</u>
101	Local
102	Collector with Striped Median
103	Collector with Bike Path
104	Arterial – 4 Lanes Divided
104A	Arterial – 2 Lanes Divided
105	Highway – 4 Lanes Divided
106	Highway – 6 Lanes Divided
107	Local Hillside Paved Road
108	Graded Road
109	Rural Local Street
110	Industrial
111	Local Intersection Design "L" Shape
112	Local Street Cul-de-sac
120	Intersection Design Rural Local Road
121	Driveway Grades

Section 2 – Curb and Gutter, Sidewalk and Asphalt Concrete Details Drawing No. Description

Drawing No.	Description
200	Curb and Gutter
201	8" Curb and Gutter
202	Asphalt Concrete Dike
203	Traversable Dike
210	Residential Driveway Approach Without Curb
211	Residential Driveway Approach With Curb
212	Commercial Driveway Approach Without Curb
213	Commercial Driveway Approach With Curb
214	Driveway Spacing
220	Sidewalk
221	Wheelchair Ramp
222	Sidewalk Ramp
230	Cross Gutter and Spandrel
231	Alley
240	Street Pavement Design
241	Trench Pavement Replacement Detail
242	Median Island Treatment
242A	Median Island Treatment – Planting/Irrigation/Ground Cover
242B	Median Island Treatment – Alternate Landscaping & Concrete Areas

Section 3 – Utility, Street Light, and Sign Details

<u>Drawing No.</u>		<u>Description</u>
	300	Street Light for Major and Arterial Streets
	301	Street Light for Collector Streets
	302	Street Light for Local Streets
	303	Street Light Concrete Footing Details
	304	Traffic Signal Pull Box Installation
	305	Street Lighting General Notes
	310	Fire Hydrant Location
	311	Utility Valve Cover Installation
	320	Underground Utility Location
	321	Street Marker
	322	Street Name Sign & Post

Section 4 - Storm Drain and Drainage Details

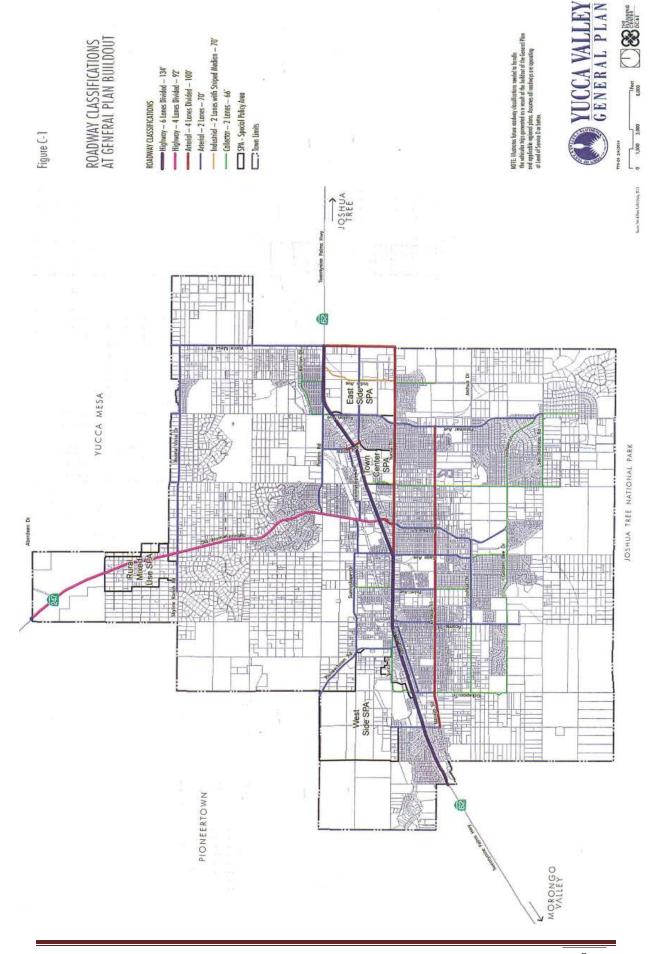
<u>Drawing No.</u>	<u>Description</u>
400	Local Depression
401	Local Depression
402	Local Depression No. 2
403	Local Depression No. 3
404	Curb Outlet Structure
405	Outlet Structure
406	Parkway Culvert with Steel Pate Cover
410	Junction Structure No. 1
411	Junction Structure No. 2
411A	Junction Structure No. 2
412	Junction Structure No. 3
413	Junction Structure No. 4
414	Junction Structure No. 5
415	Junction Structure No. 6
416	Junction Structure No. 7
420	Transition Structure No. 1
421	Transition Structure No. 2
422	Transition Structure No. 3
423	Transition Structure No. 4
430	Connector Pipe Collar
431	Concrete Collar for Pipe 12 Inches Through 66 Inches
440	Headwall Wing – Type
441	Headwall "U" – Type
450	Cutoff Wall for Drainage Channel
451	Channel Crossing
460	Inlet Type X (Grate Details)

Section 4 – Storm Drain and Drainage Details (con't)

Description
Inlet Type IX (Checkered Plate
Storm Drain Cleanout
Standard Dry Well
Timber Bulkheads
Timber Bulkheads
Concrete Bulkheads
Pipe Supports Across Trenches
Bedding and Pay Lines
Catch Basin No. 1
Catch Basin No. 4 (Sht. 1 of 2)
Catch Basin No. 4 (Sht. 2 of 2)
Catch Basin No. 6
Catch Basin Reinforcement
Special Connections to Catch Basin
Type "A" Catch Basin
Catch Basin Mountain Roads
Catch Basin Mountain Roads
Catch Basin Grate
Catch Basin Opening
Catch Basin Steel Pate Galvanized Steel Step
Removable Protection Bar for Catch Basins
Detail of Catch Basin Opening & Installation Details
Standard Drop Step
Manhole Frame & Cover for Catch Basins
Storm Drain Manhole No. 1 (Sht. 1 of 2)
Storm Drain Manhole No. 1 (Sht. 2 of 2)
Storm Drain Manhole No. 2
Storm Drain Manhole No. 3
Storm Drain Manhole No. 4
Storm Drain Manhole No. 4
Manhole Shaft for Cast Pipe
Standard Pressure Manhole Shaft
Manhole Frame & Cover – Roadway
Manhole Frame & Cover – Parkway
Manhole Frame & Cover – Non-Rocking
Manhole Frame & Cover – Pressure Type
Storm Drain Manhole No. 4

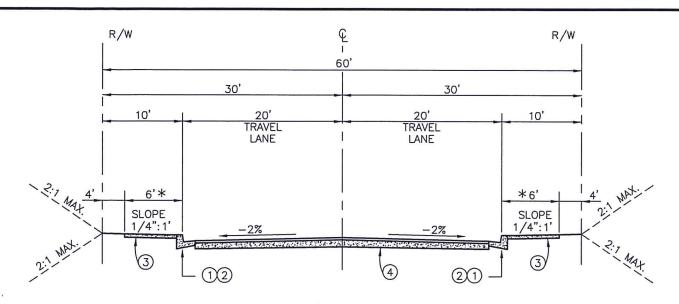
<u>Section 5 – Miscellaneous Details</u>

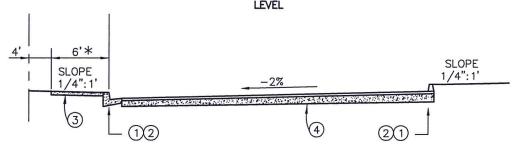
<u>Drawing No.</u>	<u>Description</u>		
500	Single Mailbox Installation		
501	Multiple Mailbox Installation for New Sidewalk		
501A	Multiple Mailbox Installation for Existing Sidewalk		
510	Metal Beam Guardrail		
511	Metal Plate Guardrail		
520	Traffic Safety Markers		
521	Post with Reflector		
522	End of Street Temporary Pavement		
522A	Barricade Rural Area		
523	Street Marker Post Installation		
530	Standard Trash Enclosure		
540	Non Retaining Concrete Blockwall		
550	Pipe Swing Gate		
M1	Copperweld Monument		
M2	Sectional Monuments		
M3	Centerline Ties		



Section 1 - Typical Street Sections

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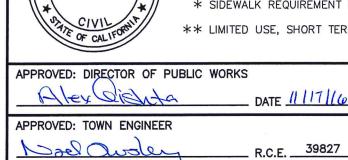
TYPICAL SECTION

NOTES:

- (1) CURB AND GUTTER PER STD. DWG. NO. 200
- (2) A.C. DIKE PER STD DWG. NO 202 **
- (3) SIDEWALK PER STD. DWG. NO. 220
- (4) PAVEMENT SECTION PER STD. DWG. NO. 240
- * SIDEWALK REQUIREMENT PER DEVELOPMENT CODE
- ** LIMITED USE, SHORT TERM IMPROVEMENT PROJECTS

39827

BY DATE



REVISED TO REFLECT CURRENT GENERAL PL.

REVISION

No.39827

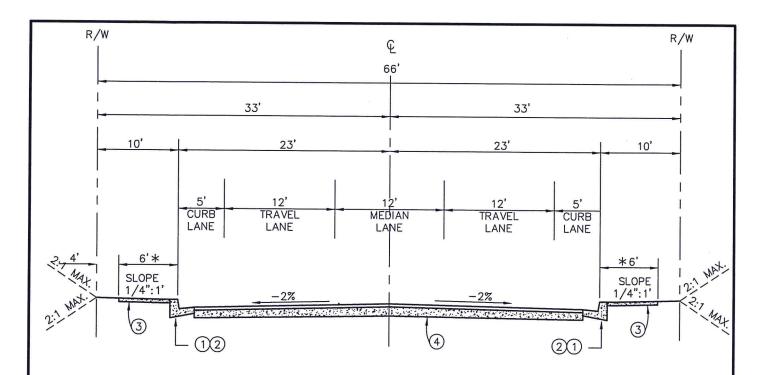


Town of Uucca Valley

LOCAL -N-8/24/16

STANDARD DRAWING NO.

101



NOTES:

- (1) CURB AND GUTTER PER STD. DWG. NO. 200
- (2) A.C. DIKE PER STD DWG. NO 202 **
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- * SIDEWALK REQUIREMENT PER DEVELOPMENT CODE
- ** LIMITED USE, SHORT TERM IMPROVEMENT PROJECTS



APPROVED: DIRECTOR OF PUBLIC WORKS

Alex Dishta Date 11/17/16

APPROVED: TOWN ENGINEER

R.C.E. 39827

REVISED TO REFLECT CURRENT GENERAL PL. -N-8/24/16

REVISION BY DATE

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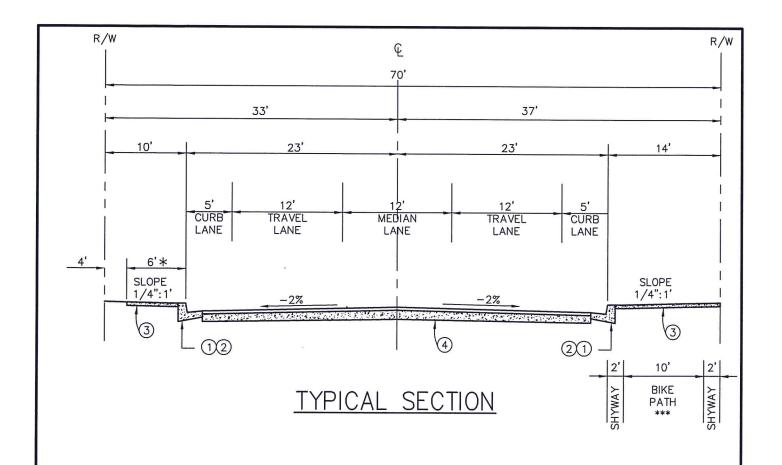
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- (1) CURB AND GUTTER PER STD. DWG. NO. 200
- (2) A.C. DIKE PER STD DWG. NO 202 **
- (3) SIDEWALK PER STD. DWG. NO. 220
- (4) PAVEMENT SECTION PER STD. DWG. NO. 240



- * SIDEWALK REQUIREMENT PER DEVELOPMENT CODE
- ** LIMITED USE, SHORT TERM IMPROVEMENT PROJECTS
- *** 14' WIDE SIDEWALK SHALL FUNCTION AS BIKE PATH

APPROVED: DIRECTOR OF PUBLIC WORKS

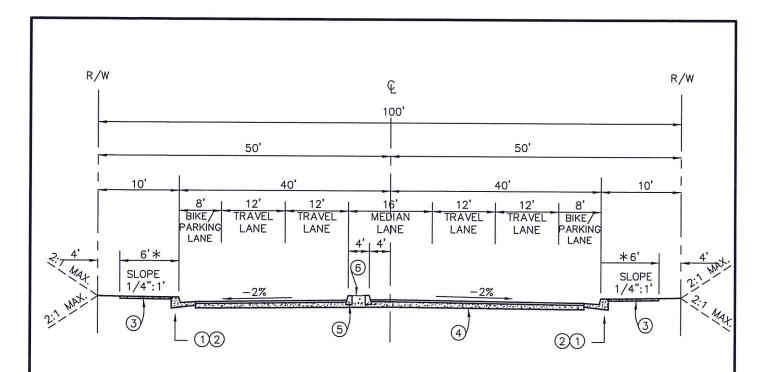
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R.C.E. 39827

COLLECTOR
WITH BIKE PATH

REVISION

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NOTES:

- (1) CURB AND GUTTER PER STD. DWG. NO. 200
- (2) A.C. DIKE PER STD. DWG. NO. 200 **
- (3) SIDEWALK PER STD. DWG. NO. 220
- (4) PAVEMENT SECTION PER STD. DWG. NO. 240
- (5) MEDIAN CURB PER STD. DWG. NO. 200A
- (6) MEDIAN ISLAND LANDSCAPING PER STD. DWG. NO. 242, 242A AND 242B
- * SIDEWALK REQUIREMENT PER DEVELOPMENT CODE
- ** LIMITED USE, SHORT TERM IMPROVEMENT PROJECTS

BY DATE



APPROVED: DIRECTOR OF PUBLIC WORKS

APPROVED: TOWN ENGINEER

R.C.E. 39827

REVISED TO REFLECT CURRENT GENERAL PL. -N-8/24/16

REVISION

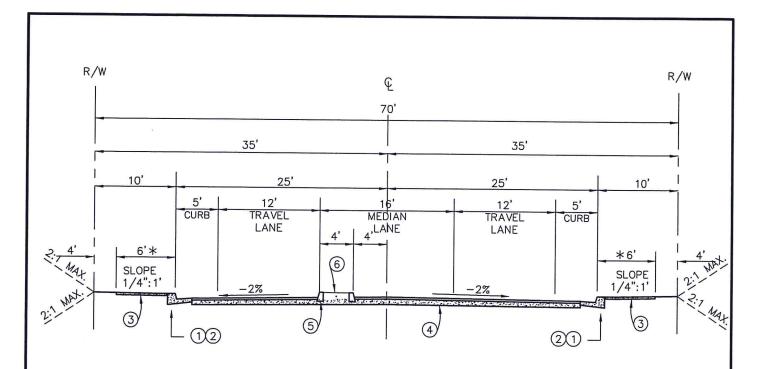


Town of Yucca Valley

ARTERIAL
(4 LANES DIVIDED)

STANDARD DRAWING NO.

104



NOTES:

- (1) CURB AND GUTTER PER STD. DWG. NO. 200
- (2) A.C. DIKE PER STD. DWG. NO. 202 **
- (3) SIDEWALK PER STD. DWG. NO. 220
- (4) PAVEMENT SECTION PER STD. DWG. NO. 240
- (5) MEDIAN CURB PER STD. DWG. NO. 200A
- (6) MEDIAN ISLAND LANDSCAPING PER STD. DWG. NO. 242, 242A, AND 242B
- * SIDEWALK REQUIREMENT PER DEVELOPMENT CODE
- ** LIMITED USE, SHORT TERM IMPROVEMENT PROJECTS

BY DATE



APPROVED: DIRECTOR OF PUBLIC WORKS

Alex Dish a DATE 11/17/16

APPROVED: TOWN ENGINEER

R.C.E. 39827

REVISED TO REFLECT CURRENT GENERAL PL. -N-8/24/16

REVISION

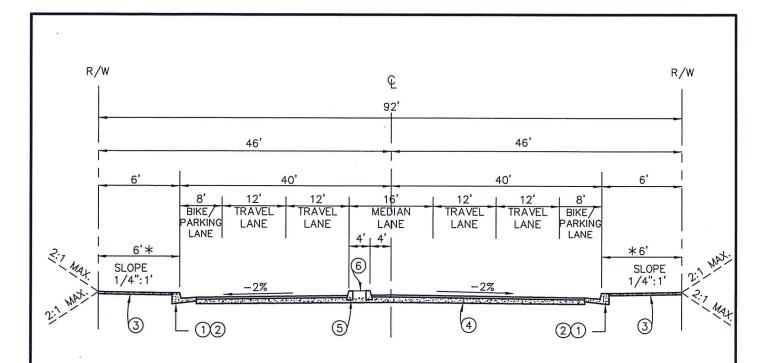


Town of Yucca Valley

ARTERIAL
(2 LANES DIVIDED)

STANDARD DRAWING NO.

104A



NOTES:

- (1) CURB AND GUTTER PER STD. DWG. NO. 200
- (2) A.C. DIKE PER STD. DWG. NO. 202 **
- (3) SIDEWALK PER STD. DWG. NO. 220
- (4) PAVEMENT SECTION PER STD. DWG. NO. 240
- (5) MEDIAN CURB PER STD. DWG. NO. 200A
- (6) MEDIAN ISLAND LANDSCAPING PER STD. DWG. NO. 242, 242A, AND 242B
- * SIDEWALK REQUIREMENT PER DEVELOPMENT CODE
- ** LIMITED USE, SHORT TERM IMPROVEMENT PROJECTS

BY DATE



APPROVED: DIRECTOR OF PUBLIC WORKS	SCL
Alex Wishta DATE 11/17/16	NE ST
APPROVED: TOWN ENGINEER	(St.
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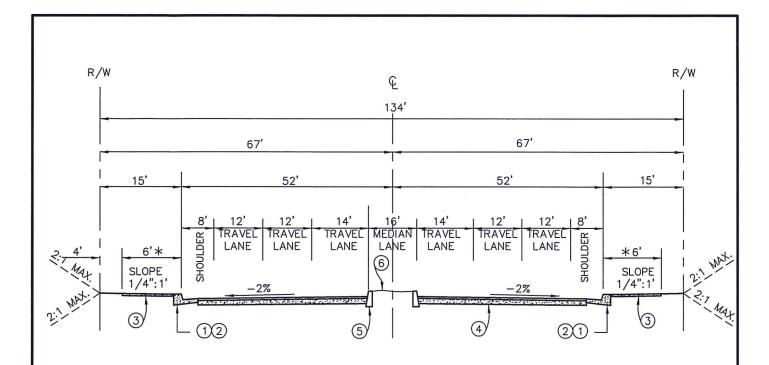
REVISION



HIGHWAY (4 LANES DIVIDED)

STANDARD DRAWING NO.

105



NOTES:

- (1) CURB AND GUTTER PER STD. DWG. NO. 200
- (2) A.C. DIKE PER STD DWG. NO 202 **
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- * SIDEWALK REQUIREMENT PER DEVELOPMENT CODE
- ** LIMITED USE, SHORT TERM IMPROVEMENT PROJECTS

BY DATE



APPROVED: DIRECTOR OF PUBLIC WORKS

APPROVED: TOWN ENGINEER

R.C.E. 39827

REVISED TO REFLECT CURRENT GENERAL PL. -N-8/24/16

REVISION

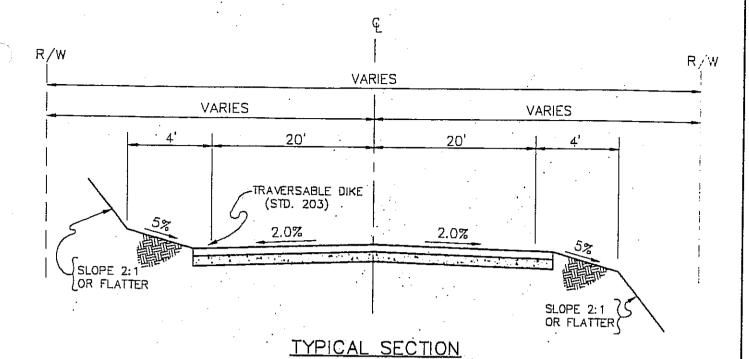


Town of Yucca Valley

HIGHWAY
(6 LANES DIVIDED)

STANDARD DRAWING NO.

106

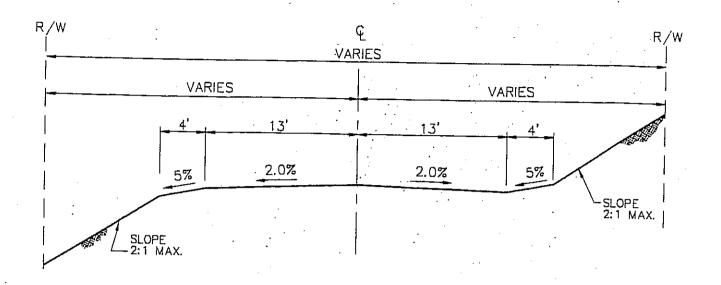


HILLSIDE

- STRUCTURAL SECTION OF ROADWAY SHALL BE DETERMINED FROM SOILS TEST AND SO INDICATED ON CONSTRUCTION PLANS.
- 2. CONSTRUCTION OUTSIDE R/W LINE SHALL REQUIRE EASEMENTS.
- 3. SLOPE REQUIREMENT MAY BE VARIED BY SUBMISSION OF SOILS REPORT.
- 4. ENTIRE SECTION MAY BE SLOPED AT 2% (NO CROWN) WITH PRIOR APPROVAL OF THE TOWN ENGINEER.



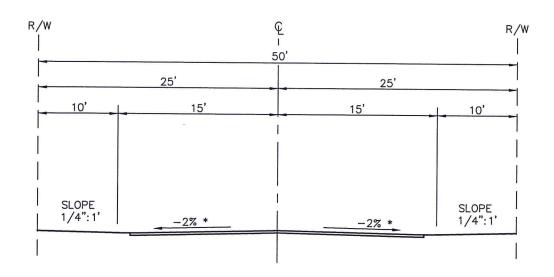
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Freder L. TIOCT	R.C.E. 27943	LOCAL HILLSIDE
		PAVED ROAD
REVISION	BY DATE	STANDARD DRAWING NO. 107



- 1. DRAINAGE IMPROVEMENTS TO BE PLACED WHERE REQUIRED.
- 2. EMBANKMENTS PLACED WITHIN AREA OF THE TRAVELED WAY SHALL PROVIDE A STABLE ROADWAY.
- 3. INDICATE AREAS WHERE IMPORTED MATERIAL IS REQUIRED TO PROVIDE A STABLE ROADWAY.
- 4. CONSTRUCTION OUTSIDE R/W LINE SHALL REQUIRE EASEMENTS.
- 5. ENTIRE SECTION MAY BE SLOPED AT 2% (NO CROWN) WITH PRIOR APPROVAL OF THE TOWN ENGINEER.



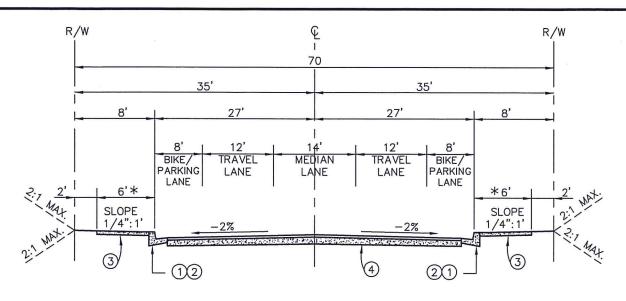
APPROVED:	DATE	70000 of Uncea Valley
APPROVED: TOWN ENGINEER Robert K. Hold	R.C.E27943	of officea valley
		GRADED ROAD
REVISION	BY DATE	STANDARD DRAWING NO. 108

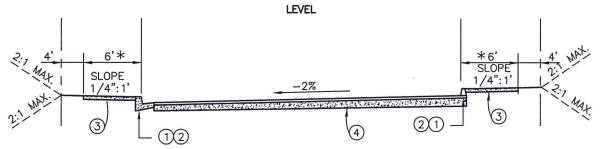


- 1. STREET SURFACE (ASPHALT OR DIRT) SHALL BE PER DEVELOPMENT CONDITIONS OF APPROVAL.
- * 2. INVERTED CROWN MAY BE USED WITH APPROVAL FROM THE TOWN ENGINEER



APPROVED: DIRECTOR OF PUBLIC WORKS APPROVED: DIRECTOR OF PUBLIC WORKS DATE 11/11/10	Town of Yucca Valley
APPROVED: TOWN ENGINEER	The same of the sa
No.E. 39827	
REVISED TO REFLECT CURRENT GENERAL PLN-8/24/16	RURAL LOCAL STREET
REVISION BY DATE	STANDARD DRAWING NO. 109





TYPICAL SECTION

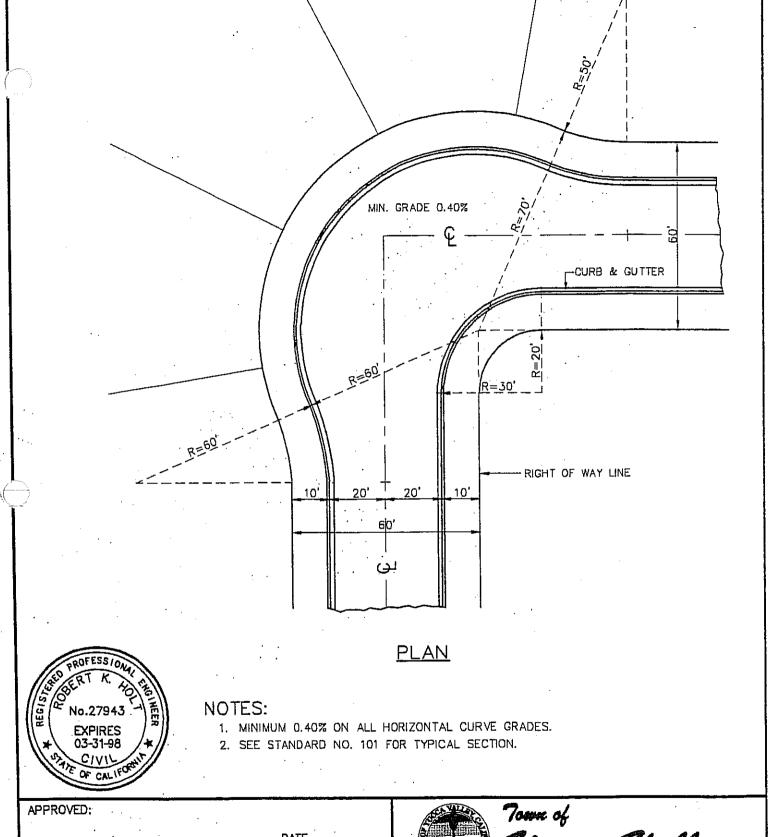
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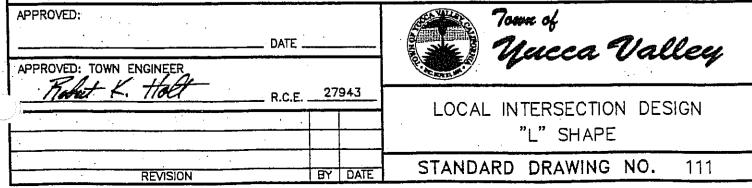
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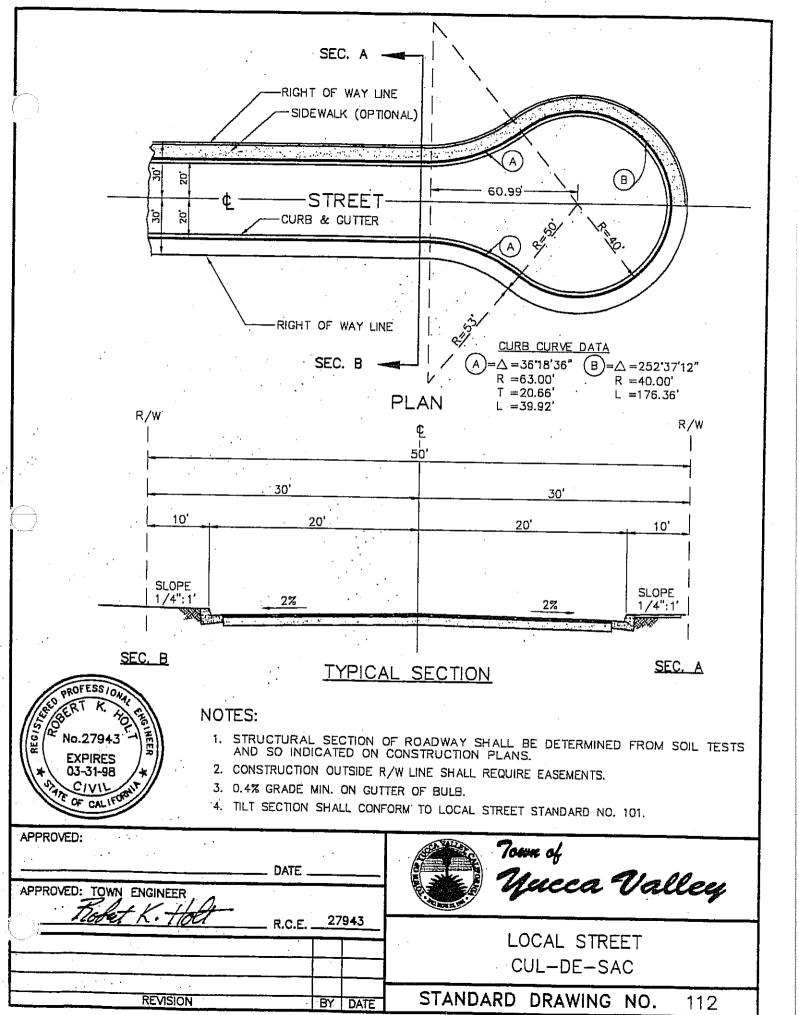
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- (2) A.C. DIKE PER STD DWG. NO 202 **
- (3) SIDEWALK PER STD. DWG. NO. 220
- (4) PAVEMENT SECTION PER STD. DWG. NO. 240

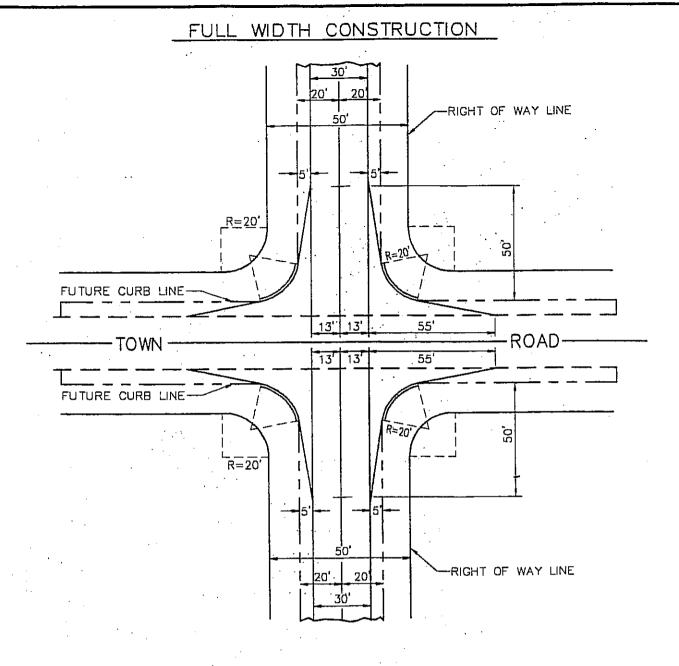


- * SIDEWALK REQUIREMENT PER DEVELOPMENT CODE
- ** LIMITED USE, SHORT TERM IMPROVEMENT PROJECTS









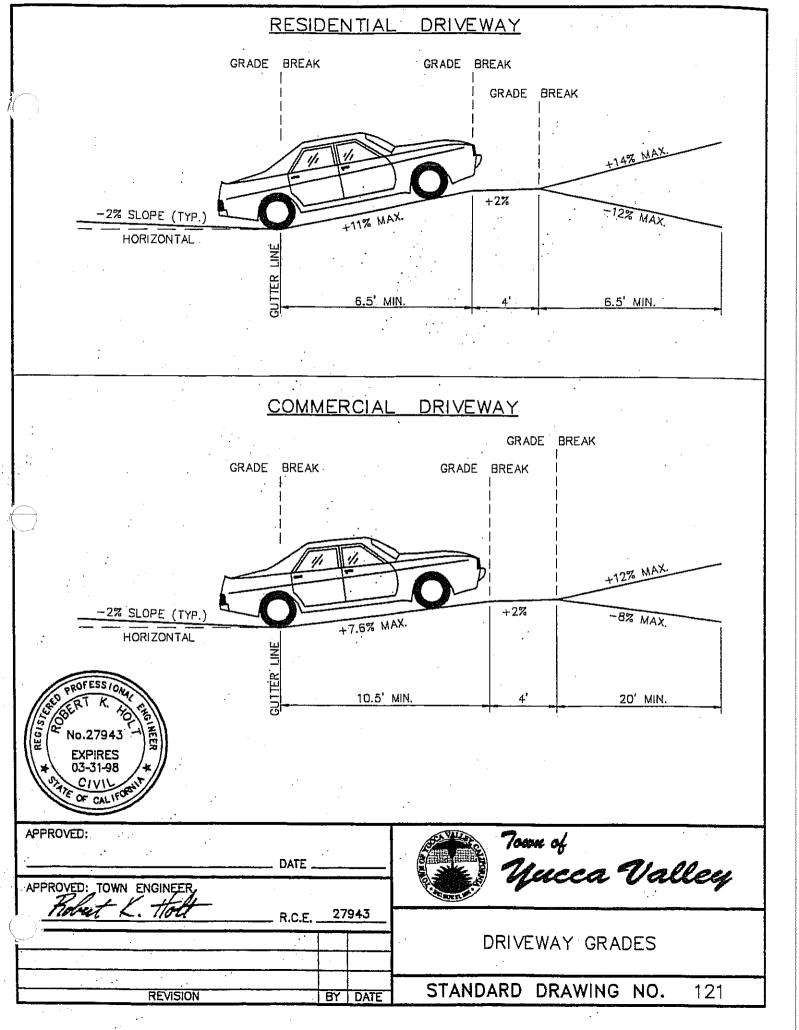


HALF WIDTH CONSTRUCTION

NOTES:

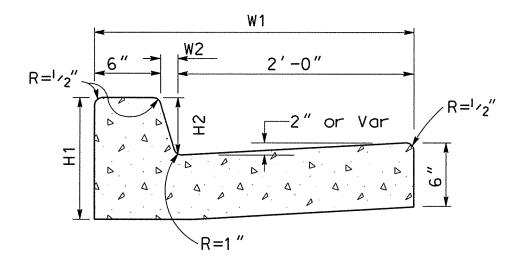
1. SEE STANDARD NO. 101 FOR ROADWAY SECTIONS.

APPROVED: APPROVED: TOWN ENGINEER	DATE	70wn of Yucca Valley
Nobel K. Hold	R.C.E. <u>27943</u>	INTERSECTION DESIGN
		RURAL LOCAL ROAD
REVISION	BY DATE	STANDARD DRAWING NO. 120



Section 2 - Curb and Gutter, Sidewalk and Asphalt Concrete Details

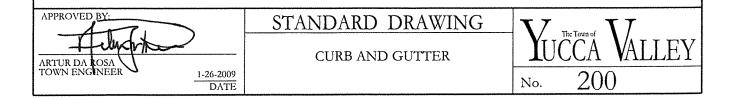
<u>Drawing No.</u>	<u>Description</u>
200	Curb and Gutter
201	8" Curb and Gutter
202	Asphalt Concrete Dike
203	Traversable Dike
210	Residential Driveway Approach Without Curb
211	Residential Driveway Approach With Curb
212	Commercial Driveway Approach Without Curb
213	Commercial Driveway Approach With Curb
214	Driveway Spacing
220	Sidewalk
221	Wheelchair Ramp
222	Sidewalk Ramp
230	Cross Gutter and Spandrel
231	Alley
240	Street Pavement Design
241	Trench Pavement Replacement Detail
242	Median Island Treatment
242A	Median Island Treatment – Planting/Irrigation/Ground Cover
242B	Median Island Treatment – Alternate Landscaping & Concrete Areas

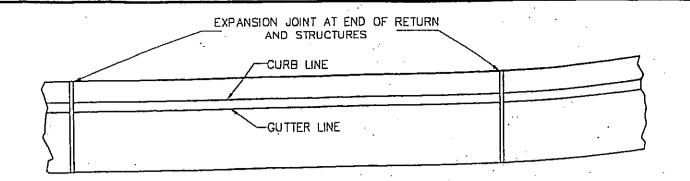


6" AND 8" CURBS

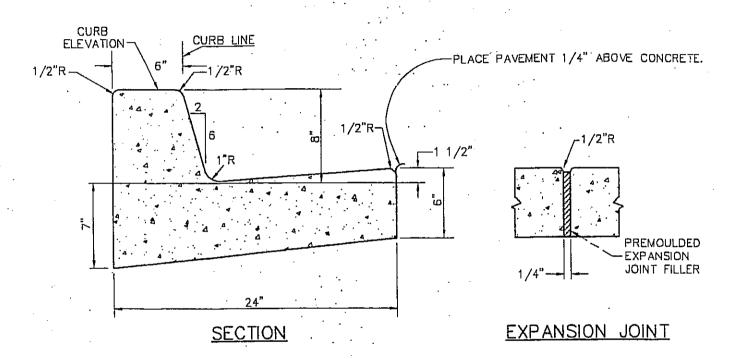
CURB	DIMENSIONS			
TYPE	H1	Н2	W1	W2
6"	1'-0"	6"	2'-71/2"	1 1/2"
8"	1'-2"	8"	2'-8"	2"

- 1. JOINTS SHALL BE INSTALL AT 10 FOOT INTERVALS.
- 2. CURING COMPOUND SHALL BE APPLIED UNIFORMLY ON EXPOSED SURFACES.





PLAN



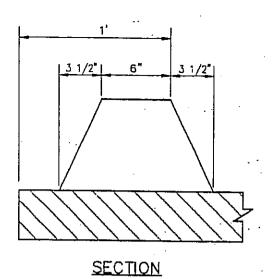
NOTES:

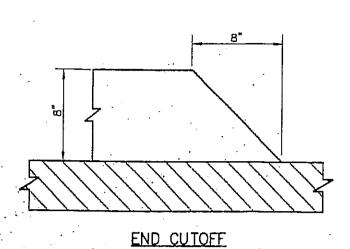
No.27943

EXPIRES

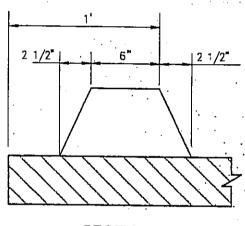
- 1. CURB AND GUTTER SHALL BE CONSTRUCTED MONOLITHICALLY OF CLASS "B" CONCRETE.
- 2. WIDTH OF STANDARD STREET SECTIONS SHOWN ON PLANS ARE TO CURB LINES UNLESS OTHERWISE INDICATED.
- 3. WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED AT 10-FOOT INTERVALS, EXCEPT THAT THE INTERVAL SHALL BE VARIED TO ALLOW MATCHING OF JOINTS IN ADJACENT EXISTING IMPROVEMENTS.
- 4. CURING COMPOUND SHALL BE SPRAYED UNIFORMLY ON EXPOSED SURFACES.
- 5. WHEN CURB AND GUTTER IS PLACED BY AN EXTRUSION MACHINE MINOR FINISHING SHALL BE DONE TO PROVIDE AN ACCEPTABLE FINISH AND THE WEAKENED PLANE JOINT MAY BE SAW CUT.
- 6. 0.0535 CUBIC YARDS PER LINEAL FOOT. 18.7 LINEAL FEET PER CUBIC YARD.

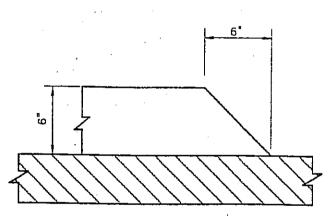
APPROVED:	DATE		7000 of Uncca Valley
APPROVED: TOWN ENGINEER Fighet L. Holt	R.C.E	27943	o"
			CURB AND GUTTER
REVISION		Y DATE	STANDARD DRAWING NO. 201





8" DIKE





SECTION

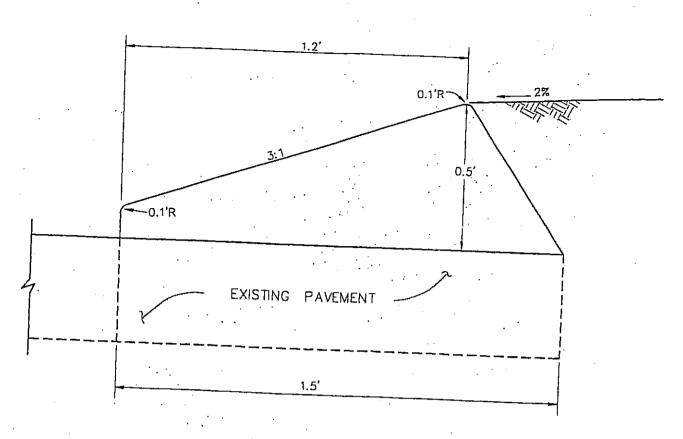
END CUTOFF

6" DIKE



- 1. DIKE SHALL BE CONSTRUCTED OF TYPE "B" ASPHALT CONCRETE ARBOOO.
- 2. PAINT BINDER SHALL BE PLACED ON EXISTING ASPHALT CONCRETE PAVEMENT PRIOR TO THE INSTALLATION OF THE DIKE.

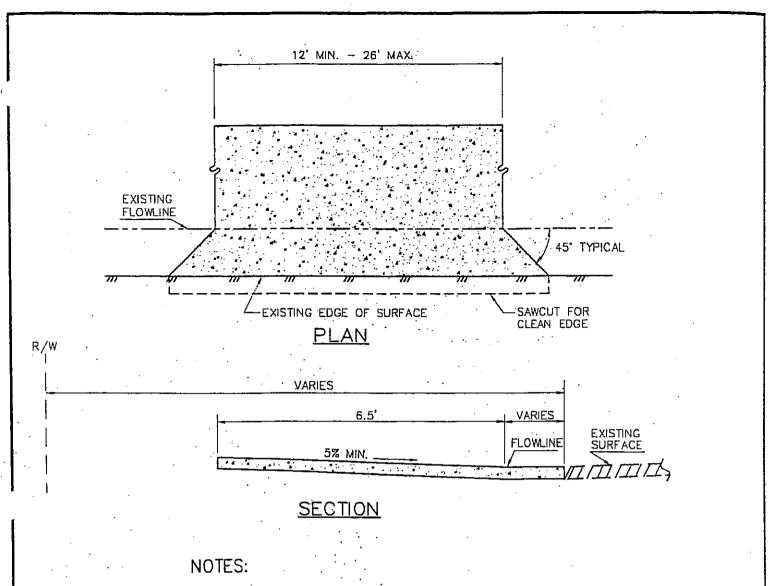
APPROVED: DATE APPROVED: TOWN ENGINEER	70000 of Yucca Valley
71 ALC.E. 27943	ASPHALT CONCRETE DIKE
REVISION BY DATE	STANDARD DRAWING NO. 202



- 1. DIKE SHALL BE CONSTRUCTED OF TYPE "B" ASPHALT CONCRETE AR8000.
- 2. PAINT BINDER SHALL BE PLACED ON EXISTING ASPHALT CONCRETE PAVEMENT PRIOR TO THE INSTALLATION OF THE DIKE.

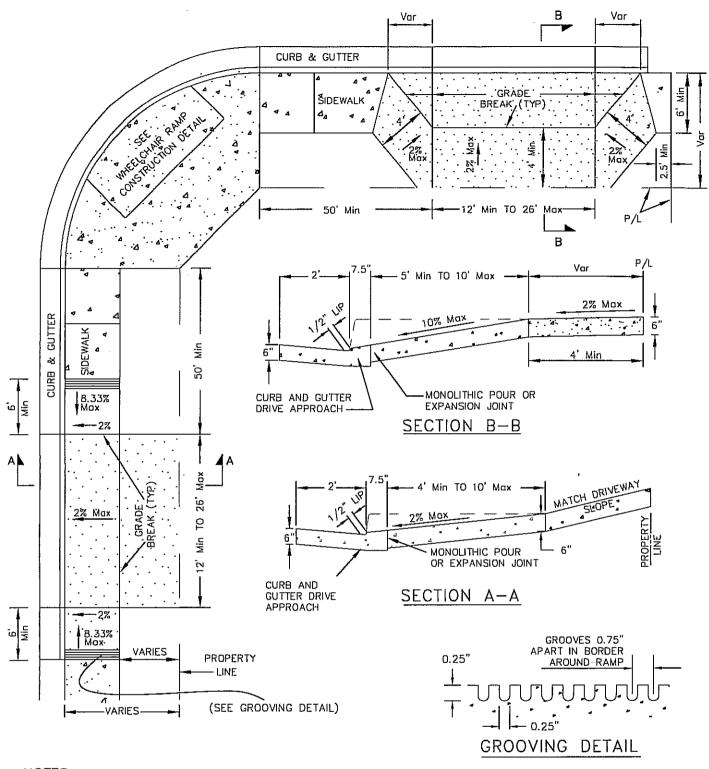


G CALL	
APPROVED: DATE	70mm of Yucca Valley
APPROVED: TOWN ENGINEER R.C.E. 27943	THE BOX 22 MET
	TRAVERSABLE DIKE
REVISION BY DATE	STANDARD DRAWING NO. 203

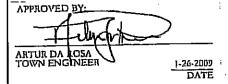


- DRIVEWAY APPROACH LOCATION SHALL BE AS APPROVED BY TOWN AND PER STANDARD NO. 214.
- 2. SURFACING MATERIAL SHALL BE:
 - A. TYPE B ASPHALT CONCRETE GRADE AR-4000, 1/2" MAX. MED., 3" THICK.
 - B. PORTLAND-GEMENT CONCRETE CLASS 'B' 4" THICK MAY BE USED.
 - C. UNPAVED, IF THE ROADWAY IS UNPAVED.
- 3. FLOWLINE GRADE SHALL BE MAINTAINED.
- 4. WHERE EXISTING BERM IS REMOVED, THE APPROACH SHALL BE CONSTRUCTED TO AN ELEVATION EQUAL IN HEIGHT TO CONTROL DRAINAGE.

THE OF CALIFORN		-	
APPROVED:	DATE	·	Town of Yucca Valley
APPROVED: TOWN ENGINEER ROBERT K. Hold	R.C.E	27943	RESIDENTIAL DRIVEWAY
			APPROACH WITHOUT CURB
REVISION		BY DATE	STANDARD DRAWING NO. 210

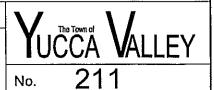


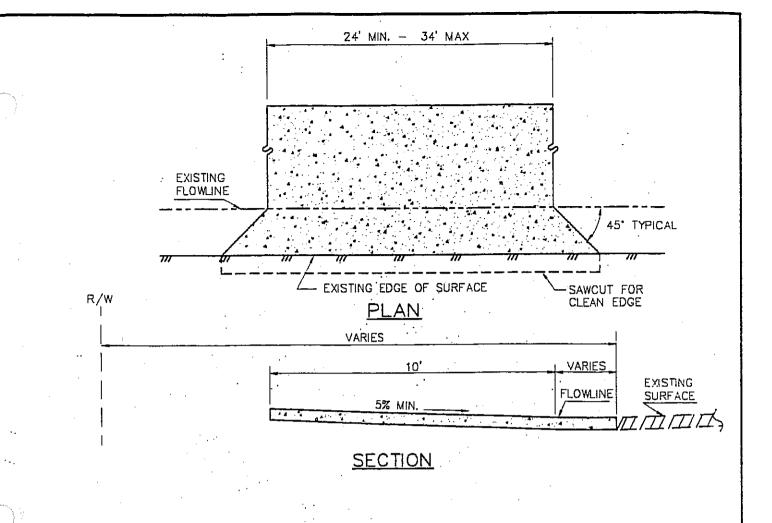
- 1. DRIVE APPROACH SHALL BE CONSTRUCTED TO MEET CURRENT A.D.A. STANDARDS.
- 2. LIP AT BOTTOM OF DRIVEWAY RAMP, 1/2" ABOVE GUTTER GRADE.
- SUBGRADE PREPARATION SHALL BE CONSTRUCTED TRUE TO GRADE WITH COMPACTION OF 95% TO A DEPTH OF 12".
- 4. ALL CONCRETE SURFACES SHALL BE FINISHED TO GRADE WITH A FLOAT, TROWELED SMOOTH AND FINISHED WITH A BROOM.
- 5. EXPANSION JOINT(S) SHALL CONSIST OF 0.25" TO 0.5" PREMOLDED JOINT MATERIAL APPROVED FOR SUCH USE.
- 6. DRIVEWAY APPROACH TO CURB AND GUTTER TO BE POURED AS MONOLITHIC OR WITH AN EXPANSION JOINT.
- 7. APARTMENTS OF 4 UNITS OR LESS SHALL USE THIS DRIVEWAY APPROACH.
- 8. APARTMENTS OF MORE THAN 4 UNITS SHALL USE THE COMMERCIAL DRIVEWAY APPROACH PLATE.
- SURFACING SHALL BE PORTLAND CEMENT CONCRETE CLASS "B".



STANDARD DRAWING

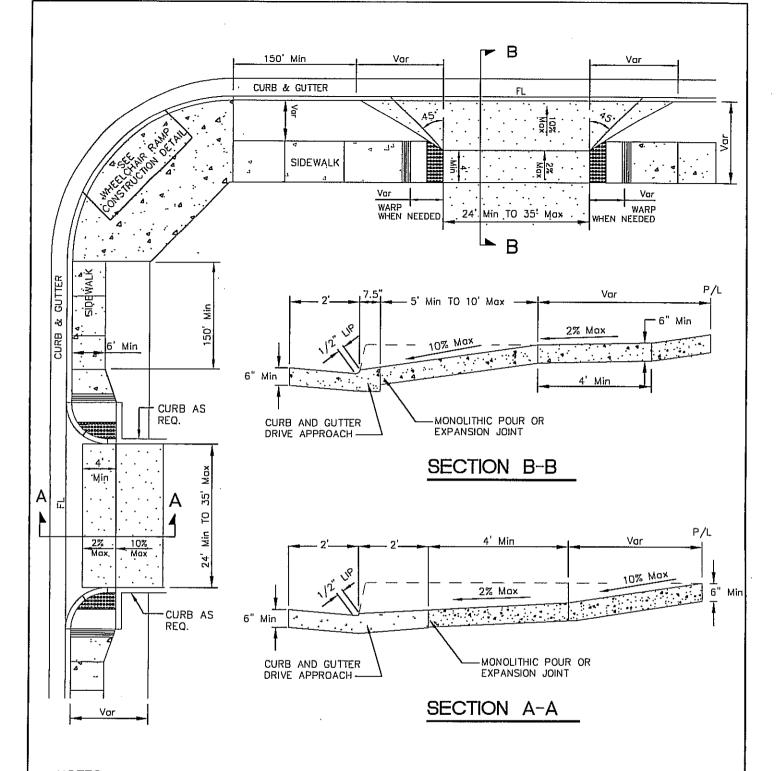
RESIDENTIAL DRIVEWAY APPROACH



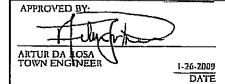


- 1. DRIVEWAY APPROACH LOCATION SHALL BE AS APPROVED BY TOWN AND PER STANDARD NO. 214.
- 2. SURFACING MATERIAL SHALL BE:
 - A. TYPE B ASPHALT CONCRETE GRADE AR-4000, 1/2" MAX. MED., 3" THICK.

C. UNPAVED, IF THE RO No.27943 3. FLOWLINE GRADE SHALL 4. WHERE EXISTING BERM IS	
APPROVED: DATE DATE APPROVED: TOWN ENGINEER	70000 of Uucca Valley
Nobert K. Holl R.C.E. 27943	COMMERCIAL DRIVEWAY
	APPROACH WITHOUT CURB
REVISION BY DATE	STANDARD DRAWING NO. 212



- 1. DRIVE APPROACH SHALL BE CONSTRUCTED TO MEET CURRENT A.D.A. STANDARDS..
- 2. SEE STANDARD 221 FOR A.D.A. RAMP REQUIREMENTS.
- 3. SUBGRADE PREPARATION SHALL BE CONSTRUCTED TRUE TO GRADE WITH COMPACTION OF 95% TO A DEPTH OF 12".
- 4. ALL CONCRETE SURFACES SHALL BE FINISHED TO GRADE WITH A FLOAT, TROWELED SMOOTH AND FINISHED WITH A BROOM.
- 5. EXPANSION JOINT(S) SHALL CONSIST OF 0.25" TO 0.5" PREMOLDED JOINT MATERIAL APPROVED FOR SUCH USE.
- 6. DRIVEWAY APPROACH TO CURB AND GUTTER TO BE POURED AS MONOLITHIC OR WITH AN EXPANSION JOINT.
- 7. APARTMENTS OF 4 UNITS OR LESS SHALL USE THE RESIDENTIAL DRIVEWAY APPROACH STANDARD.
- 8. APARTMENTS OF MORE THAN 4 UNITS SHALL USE THE COMMERCIAL DRIVEWAY APPROACH STANDARD.
- 9. SURFACING SHALL BE PORTLAND CEMENT CONCRETE CLASS "B".

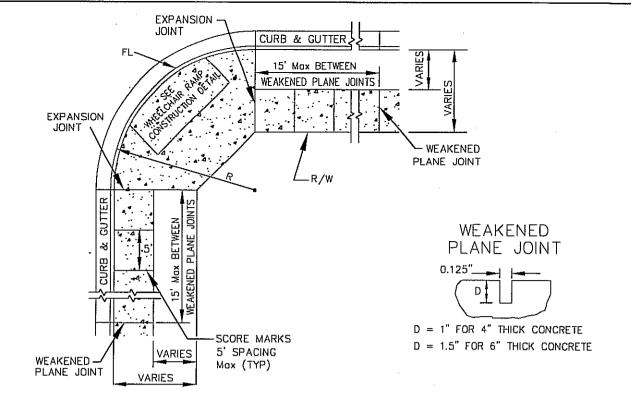


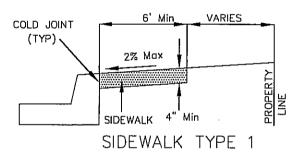
STANDARD DRAWING

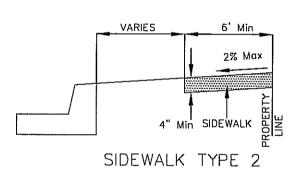
COMMERCIAL DRIVEWAY APPROACH



LOCAL STREET - COLLECTOR ROAD MAJOR HIGHWAY SECONDARY HIGHWAY 5'MIN. 50' MIN.¹ E.C. DRIVEWAY RESIDENTIAL Pl. MAJOR HIGHWAY SECONDARY HIGHWAY 150' <mark>M</mark>IN. 3 150' MIN.2 5'MIN E.C. COMMERCIAL DRIVEWAY NOTES: No.27943 1 75' ON COLLECTOR ROADS, EXCEPT 50' IF ULT. A.D.T. IS LESS THAN 3000. ²MAY BE INCREASED 75' ON COLLECTOR ROADS AND 50' ON LOCAL STREETS TO PROVIDE ADDITIONAL CLEARANCE FOR LEFT TURN STORAGE. 3 MAY BE DECREASED WITH APPROVAL FROM TOWN PLANNER. 70mm of Uucca Valley APPROVED: DATE APPROVED: TOWN ENGINEER 27943 R.C.E. DRIVEWAY SPACING STANDARD DRAWING NO. 214 BY DATE REVISION







GENERAL NOTES:

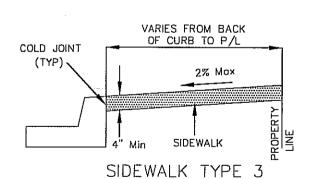
- SUBGRADE PREPARATION SHALL BE CONSTRUCTED TRUE TO GRADE AND CROSS SECTION, WITH COMPACTION OF 95% TO A DEPTH OF 1.0 FEET.
 MINIMUM GRADE FOR CURB AND GUTTER SHALL BE 0.2% EXCEPTIONS
- TO THE MINIMUM GRADE SHALL BE APPROVED BY THE TOWN ENGINEER.

 3. CONCRETE SURFACE SHALL BE FINISHED TO GRADE AND CROSS
- SECTION WITH A FLOAT, TROWELED SMOOTH, AND FINISHED WITH A BROOM.

 4. EXPANSION JOINT FILLER MATERIAL SHALL CONSIST OF PREFORMED STRIPS OF A DURABLE, RESILIENT COMPOUND.
- 5. SIDEWALK SCORE MARKS MINIMUM DEPTH OF 0.125".
- ROLL—TOP CURB & GUTTER ONLY ALLOWED IN INDUSTRIAL ZONES WITH APPROVAL OF THE TOWN ENGINEER.
- SIDEWALK TO CURB AND GUTTER NOT TO BE POURED AS MONOLITHIC.
- 8. PROPERTY AT INTERSECTIONS SHALL BE A 20 FOOT BY 20 FOOT CUT OFF FOR WHEELCHAIR RAMPS.
- 9. SIDEWALK SHALL BE CONSTRUCTED OF CLASS "B" CONCRETE.

R = 25' FOR RESIDENTIAL CURB RETURNS

R = 35' FOR COMMERCIAL/INDUSTRIAL CURB RETURNS



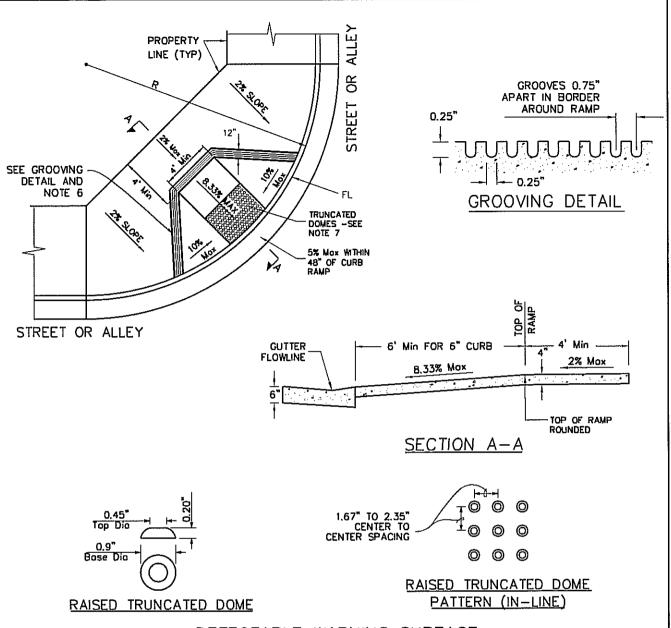
APPROVED BY

ARTUR DA IOSA TOWN ENGÎNEER 1-26-2009 DATE STANDARD DRAWING

SIDEWALK

YUCCA VALLEY

No. 220



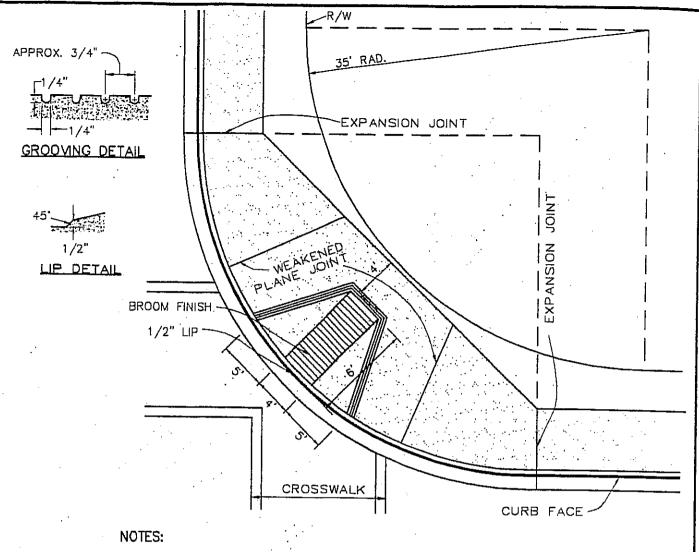
DETECTABLE WARNING SURFACE

R = 25' FOR RESIDENTIAL CURB RETURNS

R = 35' FOR COMMERCIAL/INDUSTRIAL CURB RETURNS

- CURB RAMP SHALL BE CONSTRUCTED TO MEET CURRENT A.D.A. STANDARDS.
- 2. SUBGRADE PREPARATION SHALL BE CONSTRUCTED TRUE TO GRADE WITH COMPACTION OF 95% TO A DEPTH OF 12".
- 3. ALL CONCRETE SURFACES SHALL BE FINISHED TO GRADE WITH A FLOAT, TROWELED SMOOTH AND FINISHED WITH A BROOM.
- 4. EXPANSION JOINT(S) SHALL CONSIST OF 0.5" PREMOLDED JOINT MATERIAL APPROVED FOR SUCH USE.
- 5. THE RAMP SHALL HAVE A 12" WIDE BORDER WITH 0.25" GROOVES, 0.75" APART. SEE GROOVING DETAIL.
- 6. CURB RAMPS SHALL HAVE A DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH AND 3'-0" DEPTH OF THE RAMP. COLOR YELLOW CONFORMING TO FEDERAL COLOR NO. 33538.
- 7. BECAUSE OF EXISTING CONDITIONS, OTHER CURB RAMP CONFIGURATIONS MAY BE NECESSARY. THESE SHALL MEET THE STATE OF CALIFORNIA ARCHITECTURAL BARRIERS LAWS AND BE APPROVED PRIOR TO INSTALLATION.

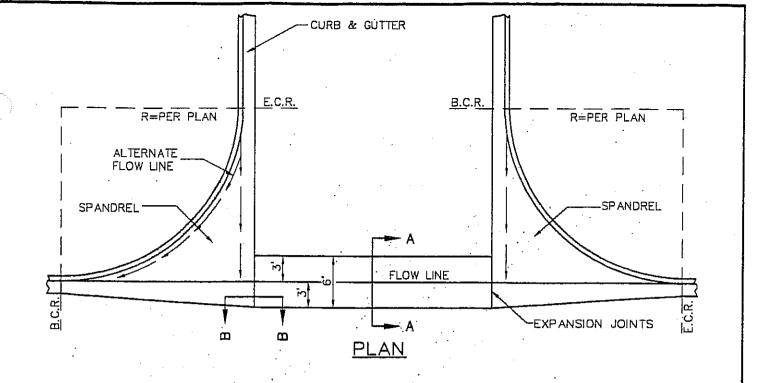


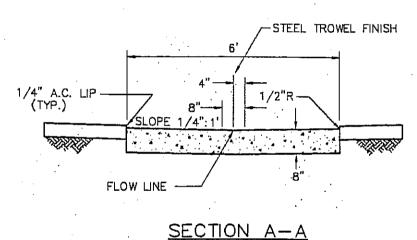


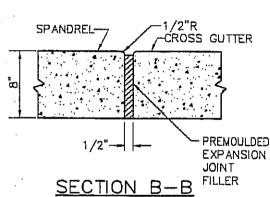
- 1. RAMP SLOPE SHALL BE 8.33% MAXIMUM.
- THE RAMP SHALL HAVE A 12" MDE BORDER WITH 1/4" GROOVES APPROXIMATELY 3/4"
 SEE GROOVING DETAIL.
- 3. RAMP SURFACE SHALL HAVE A TRANSVERSE BROOMED SURFACE TEXTURE ROUGHER THAN THE SURROUNDING SIDEWALK.
- RAMPS SHALL BE BUILT AND FINISHED SO THAT THERE ARE NO ABRUPT CHANGES IN ELEVATION OR ANGLE OF SLOPE.
- 5. SIDEWALK RAMPS ARE REQUIRED AT ALL CORNERS WHERE CURBS AND/OR SIDEWALKS ARE TO BE CONSTRUCTED OR RECONSTRUCTED AND SHALL BE AS SHOWN ON THE IMPROVEMENT PLANS.
- 6. MODIFICATIONS TO LOCATION OR DIMENSIONS OF RAMPS SHALL REQUIRE APPROVAL OF TOWN ENGINEER AND BE SHOWN ON APPROVED PLANS.
- 7. THICKNESS OF CONCRETE: 4 INCH MINIMUM.

PROFESS / ONAL CALLED BY CONTROL OF CALLED BY CONTR
APPROVED:

PPROVED: PPROVED: TOWN ENGINEER	DATE _	•		70un of Uucca Valley
Hobert K. Holf	R.C.E.	27	943	The state of the s
	,			SIDEWALK RAMP
REVISION		BY	DATE	STANDARD DRAWING NO. 222



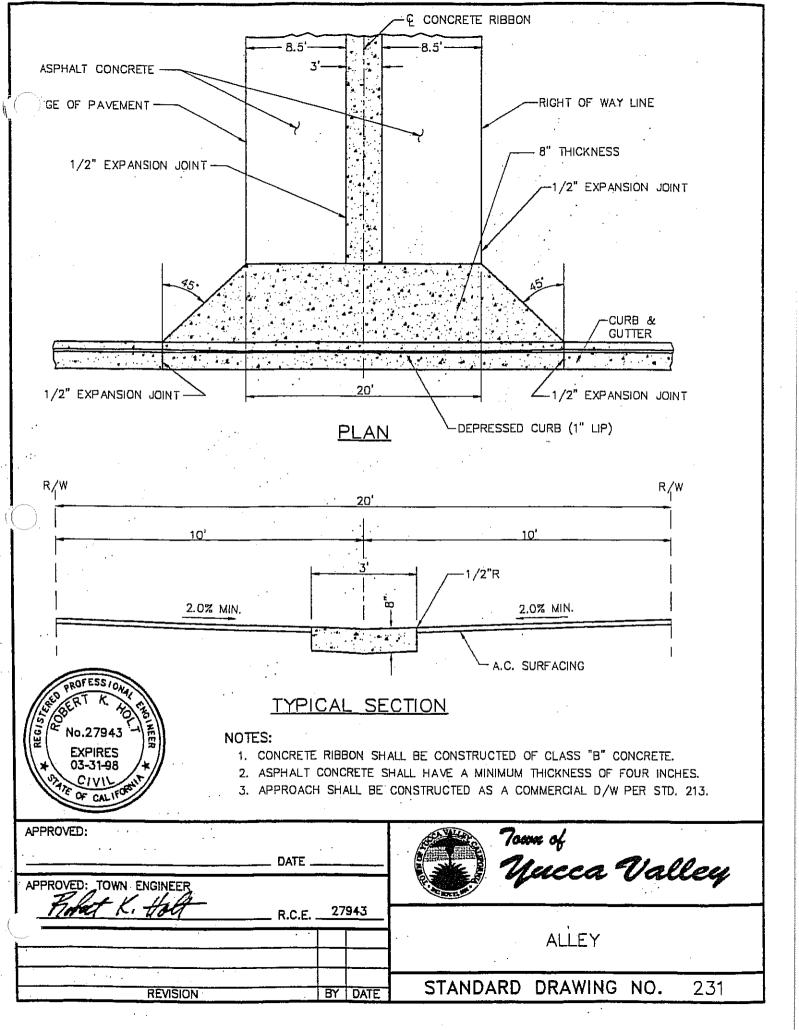


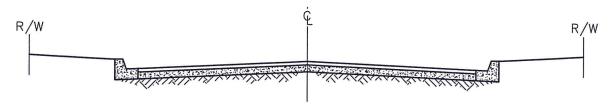




- 1. CROSS GUTTER SHALL BE CONSTRUCTED OF CLASS "B" CONCRETE.
- 2. THE STRAIGHT GRADE BETWEEN B.C.R.'S MAY BE ALTERED WHERE EXCESSIVE GRADES EXIST.
- 3. SPANDREL SHALL BE 8" THICKNESS CLASS "B" CONCRETE.
- 4. VARIABLE CURB FACE ALLOWED FOR DRAINAGE PURPOSES.

APPROVED: DATE	70000 of Yucca Valley
APPROVED: TOWN ENGINEER FISCH L. Holf R.C.E. 27943	CROSS GUTTER
	AND SPANDREL
REVISION BY DATE	STANDARD DRAWING NO. 230





MINIMUM PAVEMENT STRUCTURAL SECTIONS

STREET CLASSIFICATION	MIN. TRAFFIC INDEX	MIN. A.C. THICKNESS	PLACEMENT LIFTS
ALLEY	N/A	4"	2 - 2" LIFTS
LOCAL ROAD	5.5	4"	2 - 2" LIFTS
COLLECTOR ROAD	8	4"	2 - 2" LIFTS
ARTERIAL ROAD	10	6"	2 - 3" LIFTS
HIGHWAY	12	*	*

ASHPALT REQUIREMENTS

ASPHALT SHALL BE CALTRANS TYPE A, PG 70-10 BINDER. BASE COURSE SHALL BE 3/4", SURFACE COURSE SHALL BE 1/2"

COMPACTION REQUIREMENTS

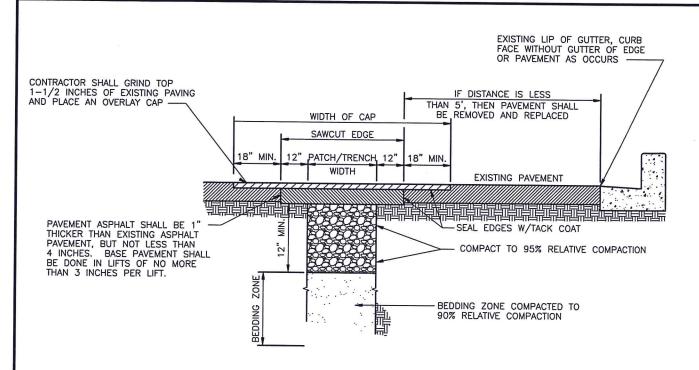
95% FOR TOP 12" OF SUBGRADE, 95% FOR AGG. BASE

NOTE: PAVEMENT THICKNESS SHOWN ABOVE ARE MINIMUMS.
SOILS REPORTS MAY REQUIRE GREATER THICKNESS OF
STRUCTURAL SECTION

* - CONTACT CALTRANS FOR THICKNESS REQUIREMENTS ON STATE HIGHWAYS



APPROVED: DIRECTOR OF PUBLIC WORKS DATE 11/17	A SUCCES	Town of Yucca Valley
APPROVED: TOWN ENGINEER	QLE NOW!	
Noel Dualon R.C.E. 39827		
REVISED TO REFLECT CURRENT GENERAL PLN- 9/7/]	STREET PAVEMENT DESIGN
REVISION BY DAT	STA	NDARD DRAWING NO. 240

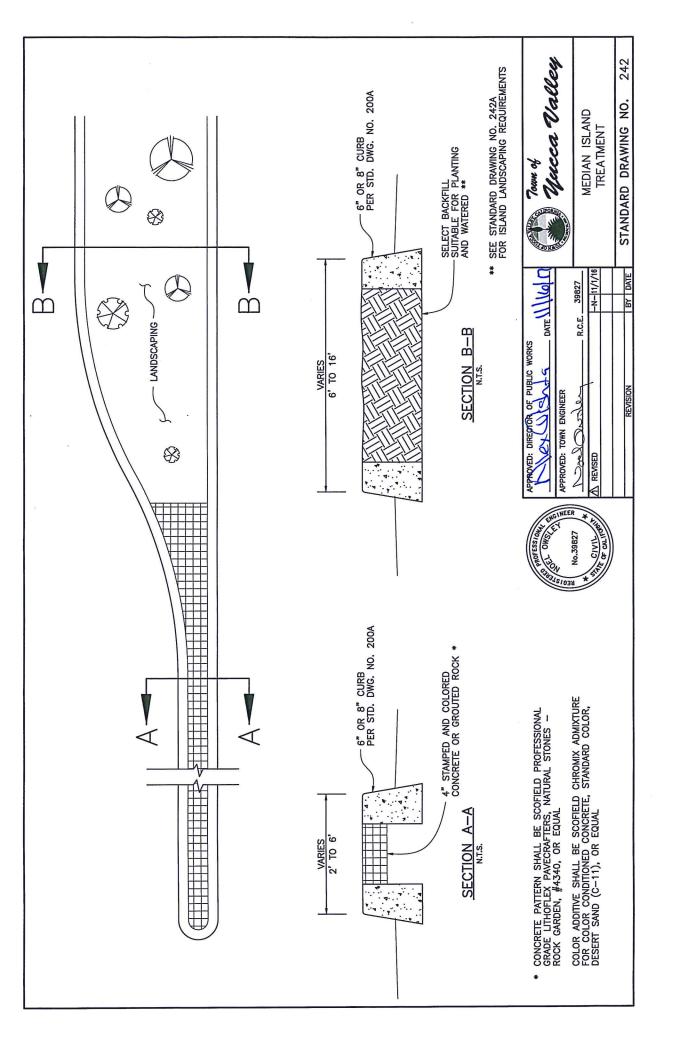


TYPICAL SECTION

- IN AREAS WITH CLASS 2 AGG. BASE REPLACE WITH CLASS 2 BASE.
- 2. COMPACTION ANALYSIS REQUIRED FOR TRENCHES 10 S.F. AND LARGER
- ASPHALT SHALL BE CALTRANS TYPE A 1/2" HMA WIITH PG 70-10 PM OIL BINDER



APPROVED: DIRECTOR OF PUBLIC WORKS Alex Dishla DATE 1/17/16	Town of Yucca Valley
APPROVED: TOWN ENGINEER	The want
Not Dust R.C.E. 39827	TRENCH PAVEMENT
REVISED DETAIL -N-8/24/16	REPLACEMENT DETAIL
REVISION BY DATE	STANDARD DRAWING NO. 241



PLANTINGS IN LANDSCAPE MEDIANS SHALL BE:

- * RUSSIAN SAGE
- * TEXAS RANGER
- * DESERT SPOON
- * FOUNTAIN GRASS (P. setaceum)
- * LANTANA (L. montevidensis)
- * MEXICAN BIRD OF PARADISE

PLANT SPACING SHALL BE 8' to 10'. LANTANA AND FOUNTAIN GRASS MAY BE GROUPED.

BOULDERS/ROCKS MAY BE PLACED IN MEDIAN ISLANDS, HOWEVER THEY MAY NOT EXTEND MORE THAN 4" ABOVE CURB GRADE.

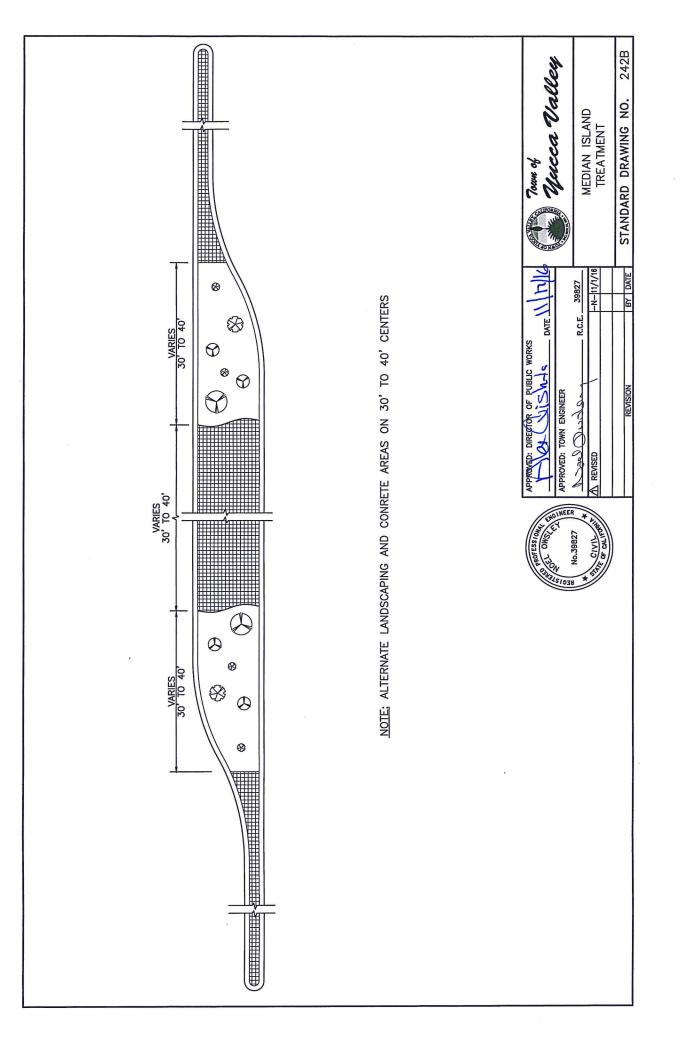
IRRIGATION REQUIREMENT SHALL BE:

- * MOTOROLA SCORPIO CLOCKS CAPABLE OF COMMUNICATING WITH WITH THE CENTRAL MOTOROLA IRRIGATION SYSTEM.
- * BERMAD MASTER VALVES AND FLOW SENSORS (NORMALLY CLOSED VALVE).
- * HARD PIPE ALL DRIP IRRIGATION USING RAIN BIRD POLYFLEX RISERS
- * WITH 1/2" MALE THREADED BASE.
- * RAIN BÍRD XB-10PC-1032 (BLACK) THREADED INLET DRIP EMITTERS.
- * BRASS RAIN BIRD STATION VALVES.
- * RAIN BIRD PRSD PRESSURE REGULATORS PREFERRED.
- * SCHEDULE 40 PVC ON ALL MAIN LINES AND LATERALS UNDER 3".

GROUND COVER SHALL BE DECOMPOSED GRANITE OR PALM SPRINGS GOLD.

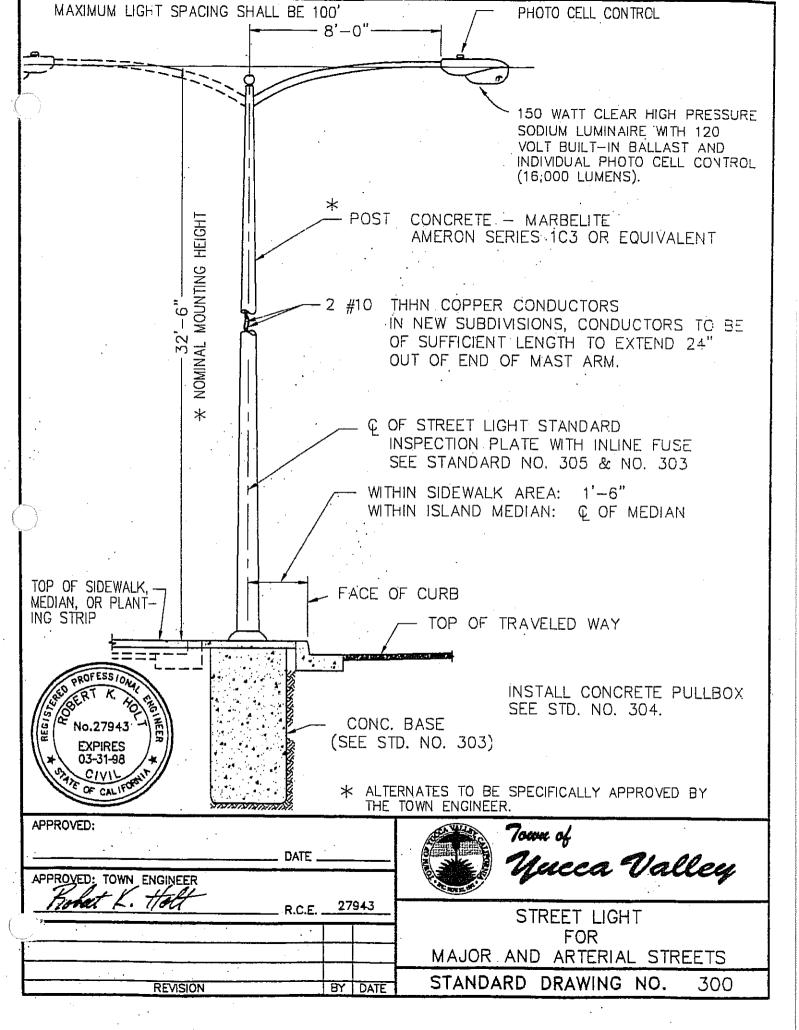


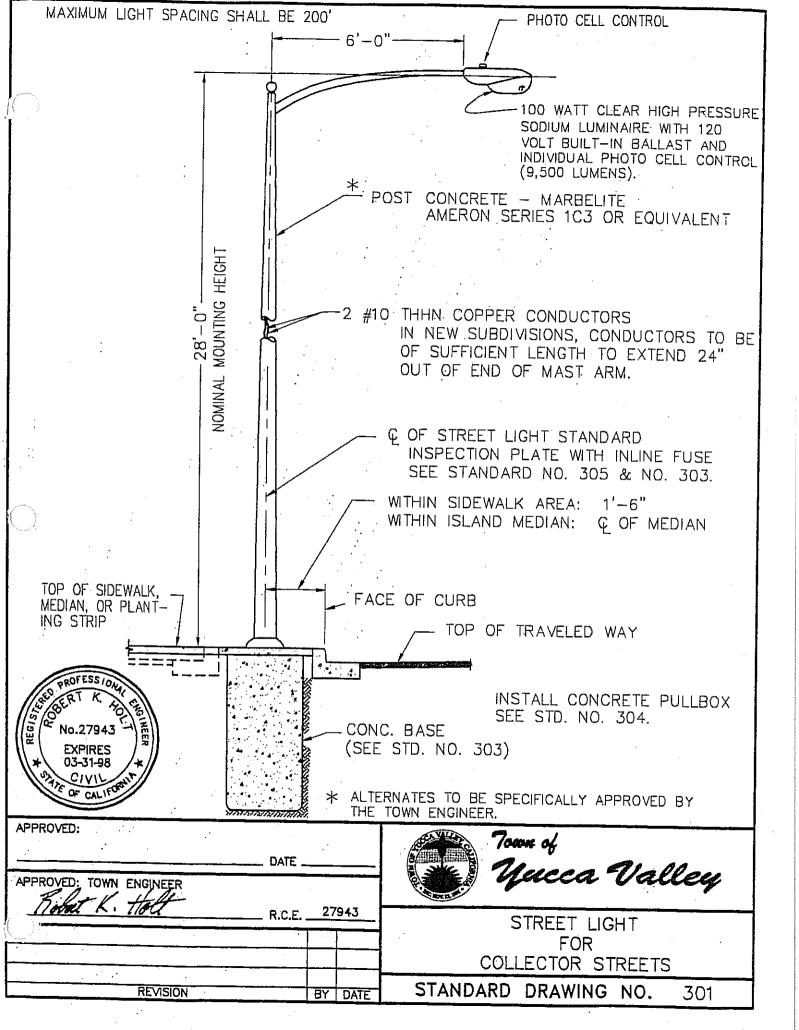
APPROVED: DIRECTOR OF PUBLIC WORKS	S _ DATE		Town of Uucca Valley
APPROVED: TOWN ENGINEER		A STATE OF THE STA	The Love and the
Dollade	_ R.C.E39827	.7	MEDIAN ISLAND
⚠ REVISED \	-N- 11/	/1/16	TREATMENT
REVISION	BY DA	ATE .	STANDARD DRAWING NO. 242A

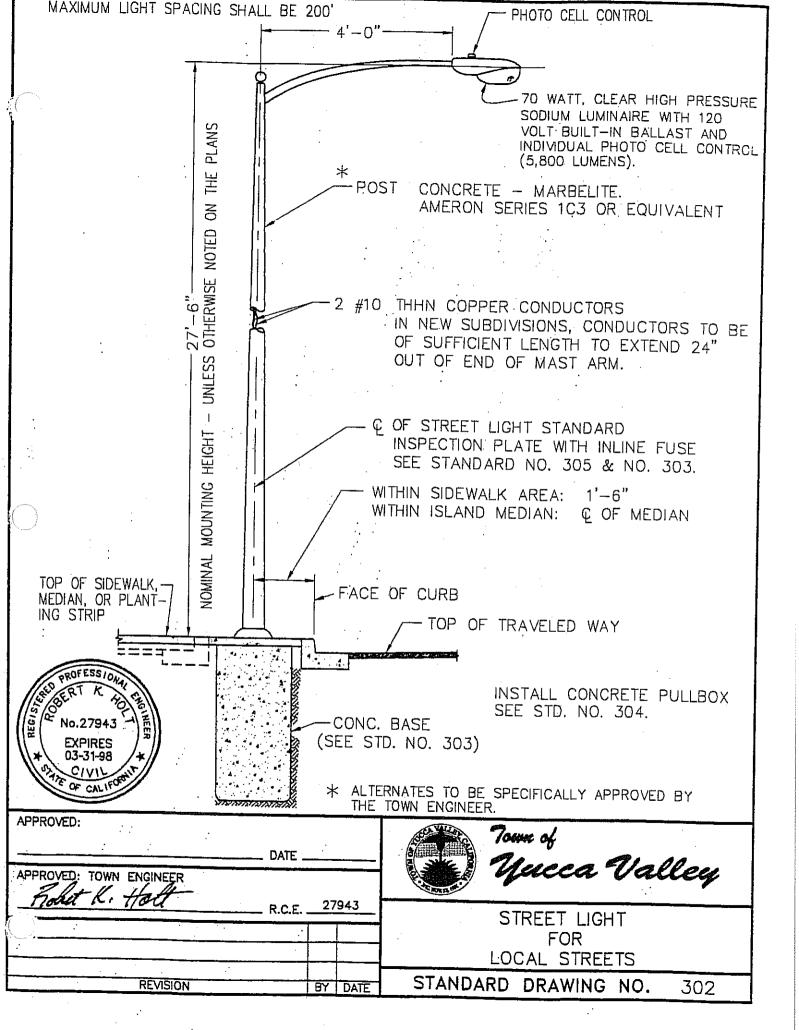


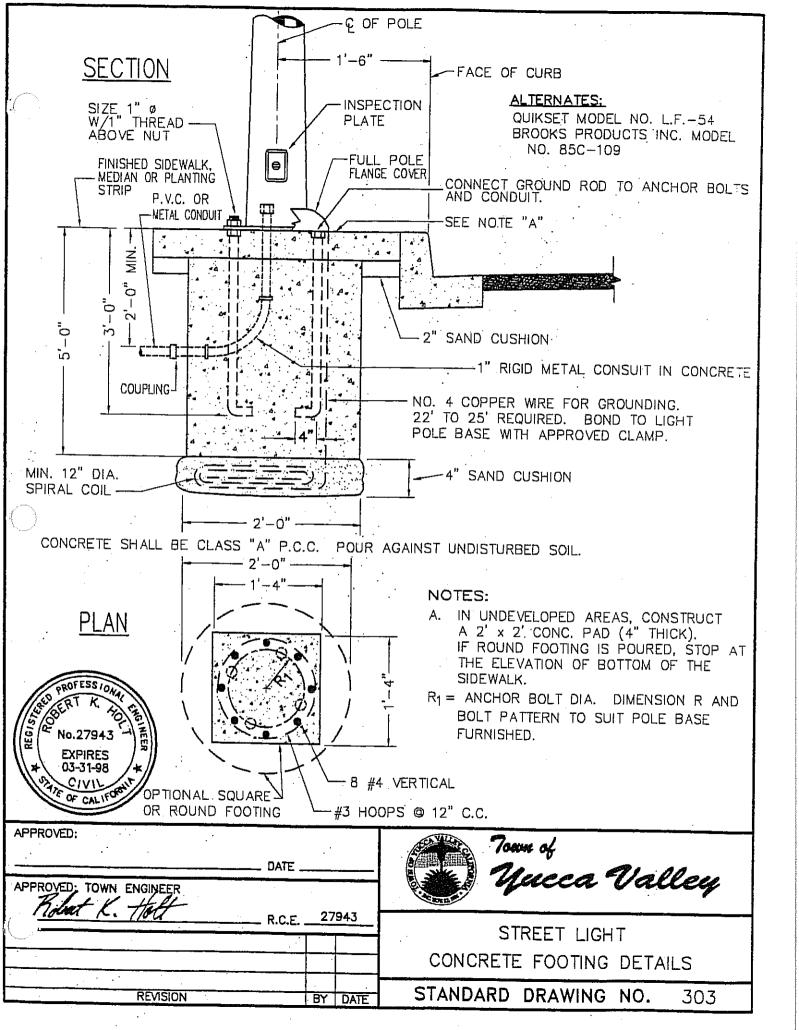
Section 3 – Utility, Street Light, and Sign Details

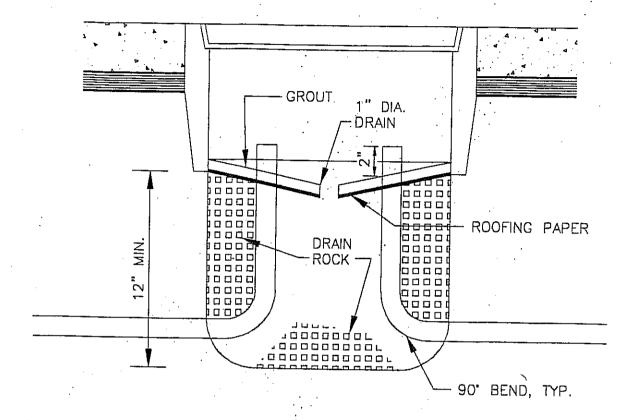
Drawing No.	<u>Description</u>
300	Street Light for Major and Arterial Streets
301	Street Light for Collector Streets
302	Street Light for Local Streets
303	Street Light Concrete Footing Details
304	Traffic Signal Pull Box Installation
305	Street Lighting General Notes
310	Fire Hydrant Location
311	Utility Valve Cover Installation
320	Underground Utility Location
321	Street Marker
322	Street Name Sign & Post











NO. 5 CONCRETE PULLBOX



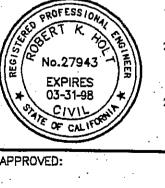
NOTES:

1. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE TOWN ENGINEER.

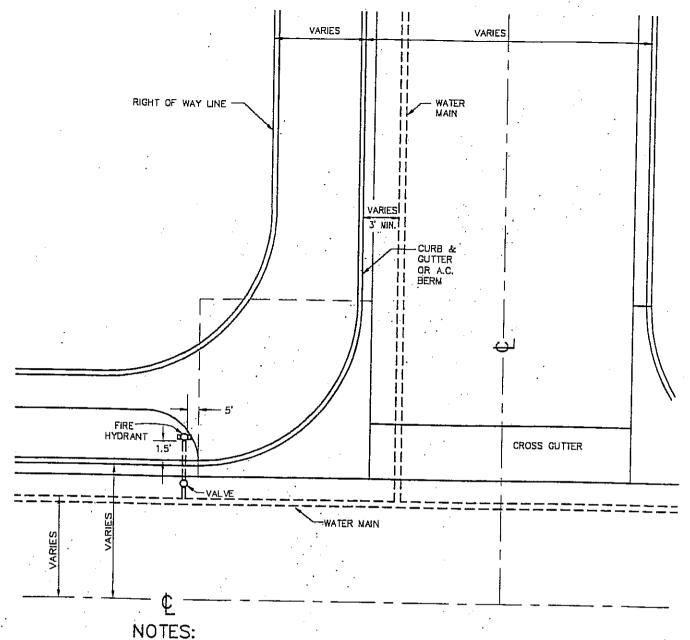
APPROVED: TOW	N ENGINEER	DATE	70m of Yucca Valley
- Med 1	K. 716U	R.C.E. 27943	TRAFFIC SIGNAL PULL BOX INSTALLATION
	REVISION	BY DATE	STANDARD DRAWING NO. 304

GENERAL NOTES:

- ALL WIRING METHODS AND EQUIPMENT CONSTRUCTION SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE.
- ALL CONDUIT TO BE USED SHALL BE A MINIMUM OF 2" DIAMETER, SCHEDULE 40 P.V.C., EXCEPT FROM EACH STREET LIGHT TO ADJACENT PULL BOX WHICH MAY BE 1" DIAMETER P.V.C. OR METAL, AND SHALL HAVE THE FOLLOWING COVER FROM TOP OF CONDUIT.
 - WITHIN SIDEWALK OF PARKWAY AREAS: 2'-0" MIN. WITHIN ROADWAY AREAS: 4'-0" MIN.
- ALL METAL CONDUIT AND OTHER METAL PARTS SHALL BE CONTINUOUSLY BONDED AND GROUNDED.
- 4. ALL BENDS AND/OR OFFSETS SHALL BE MADE WITH FACTORY SECTIONS.
- UNLESS OTHERWISE APPROVED BY THE TOWN ENGINEER, A NO. 5 PULL BOX (STATE STD. ES-8) SHALL BE USED AT ALL STREET LIGHT STANDARDS.
- 6. ALL PULL BOXES SHALL BE PER STD. 304.
- JUNCTION BOXES TO BE NOT MORE THAN 250 FEET APART ON LONG RUNS.
- WHEN PULL BOXES ARE SUBJECT TO VEHICULAR TRAFFIC, THEY SHALL BE SET ON CONCRETE FOOTINGS AND CAST IRON TRAFFIC COVERS SHALL BE INSTALLED.
- 9. ALL SPLICES TO BE APPROVED SOLDERLESS WATERPROOF CONNECTORS OF PROPER SIZE. (EXAMPLE: WIRENUT OR SPLIT BOLT PLUS TAPE PLUS COATING.)
- 10. ALL EMPTY CONDUITS SHALL HAVE A 1/4" NYLON PULL ROPE PROVIDED INSIDE.
- 11. ALL CONDUITS SHALL BE SEALED WITH AN APPROVED DUCT SEAL. CONDUITS STUBBED FOR FUTURE EXTENSION SHALL BE CAPPED.
- 12. ALL STREET LIGHTING PROJECTS ARE SUBJECT TO APPROVAL BY THE TOWN ENGINEER.
- 13. ALL PULLBOX COVERS SHALL BE SECURED WITH BRASS HOLD DOWN BOLTS AND INSCRIBED, "STREET LIGHTING".
- 14. ALL STREET LIGHTS EQUIPPED WITH A PHOTOCELL CONTROL SHALL HAVE THE PHOTOCELL ORIENTED TO THE NORTH.
- 15. ALL WIRE SHALL BE THHN A.W.G. WITH THE MINIMUM SIZE TO BE #8.
- 16. LIGHT POLES ON ALL STREETS OTHER THAN MINOR STREETS OR CUL-DE-SACS SHALL BE GALVANIZED STREET STANDARDS IN ACCORDANCE WITH TOWN STANDARD PLANS.
- 17. THE DEVELOPER/ENGINEER SHALL MAKE ARRANGEMENTS FOR SERVICE POINTS WITH S.C.E. THE DEVELOPER SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED THEREWITH WHICH SHALL BE PAID DIRECTLY TO S.C.E. THE CONTRACTOR SHALL VERIFY THE STREET LIGHT SERVICE POINT LOCATION(S) WITH S.C.E. PRIOR TO INSTALLATION.
- 18. DEVELOPER SHALL INSTALL, IN ACCORDANCE WITH TOWN STANDARDS, CONCRETE FOUNDATIONS, GALVANIZED STEEL POLES, APPROPRIATE MAST ARM LENGTHS, AND WIRING, LEAVING 2' OF WIRING EXTENDING FROM THE MAST ARM TO ALLOW CONNECTION TO THE LUMINAIRE BY S.C.E. FORCES AT A LATER DATE.
- 19. NEW DEVELOPMENTS LOCATED WITHIN AN EXISTING DEVELOPED AREA SHALL INSTALL THE ENTIRE LIGHTING SYSTEM, INCLUDING LUMINAIRES.
- 20. ALL STREET LIGHT SYSTEMS SHALL BE DESIGNED FOR 120 VOLT SERVICES UNLESS CONNECTING TO AN EXISTING SYSTEM. IN THE LATTER CASE, THE DESIGN SHALL CONFORM TO THE SYSTEM BEING CONNECTED TO AND MUST BE SPECIFICALLY APPROVED BY THE TOWN ENGINEER.
- 21. THE CURRENT TO BE USED TO DETERMINE CONDUCTOR SIZE SHALL BE DETERMINED AS FOLLOWS:



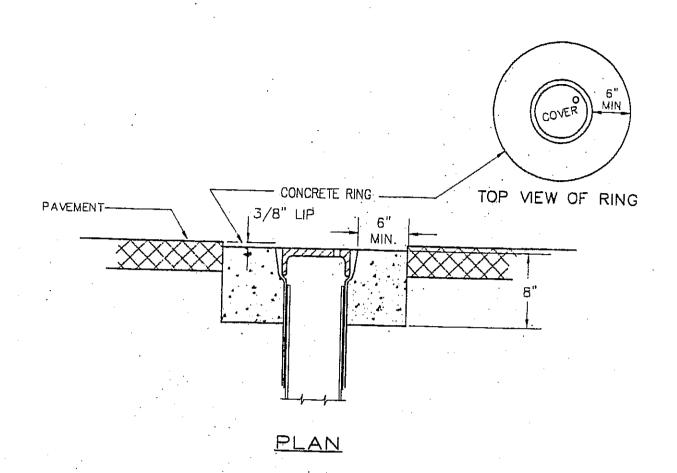
PROVED: PROVED: TOWN ENGINEER	DATE		70m of Yucca Valley
110110111111111111111111111111111111111			
Madait K. Holt	R.C.E2	7943	STREET LIGHTING
Radait K. Holl	R.C.E2	7943	STREET LIGHTING GENERAL NOTES STANDARD DRAWING NO. 305





- LOCATION OF WATER LINES AND VALVES SHALL BE SHOWN ON THE PLAN MEW FOR SUBDIVISION IMPROVEMENT PLANS. SEE HEALTH DEPARTMENT STANDARDS, SECTION 7, DISTRIBUTION SYSTEMS, FOR MINIMUM DEPTH.
- 2. HYDRANT TO BE SET PLUMB WITH NOZZLE A MINIMUM OF EIGHTEEN (18") INCHES ABOVE GROUND LEVEL. WHEN HYDRANTS ARE PLACED BEFORE GRADING IS COMPLETED, THE FINAL GRADE LINE AND ACCESSIBILITY SHOULD BE CONSIDERED.
- NO OBSTRUCTIONS SUCH AS POLES, GUY LINES, ETC. SHOULD BE PLACED CLOSER THAN FIVE (5') FEET TO HYDRANT.

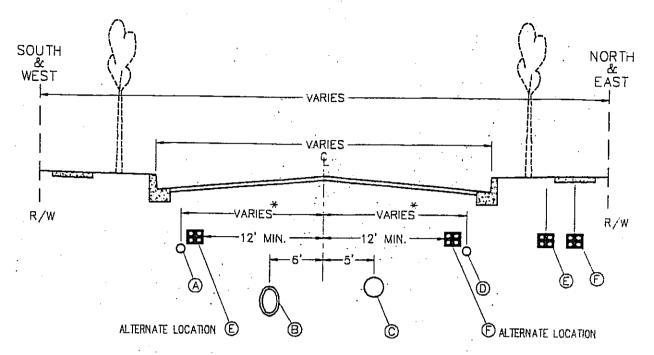
₩PROVED:		_ DATE _		70000 of Yucca Valley
PPROVED; TOWN EN	GINEER	_ R.C.E.	27943	
<u> </u>				FIRE HYDRANT LOCATION
	REVISION		BY DATE	STANDARD DRAWING NO. 310





PPROVED: DATE DATE PPROVED: TOWN ENGINEER FAMEL Hadden	70000 of Uucca Valley
R.C.E. 27943	UTILITY VALVE COVER INSTALLATION
REVISION BY DATE	STANDARD DRAWING NO. 311

RECOMMENDED UTILITY LOCATION



UTILITY		MIN. COVER
(A)	WATER	30"
⑱	STORM DRAIN	VARIES
(C)	SEWER	VARIES
0	GAS	30"
(D)	POWER	36"
(E)	TELEPHONE-CATV	30"

No.27943

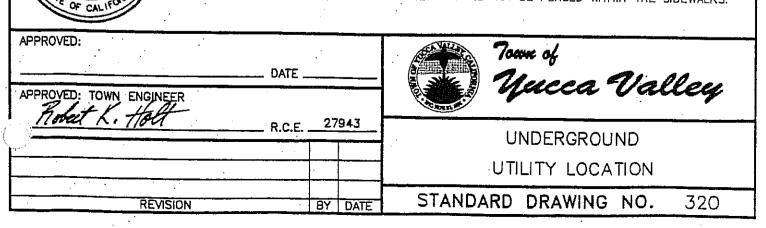
EXPIRES

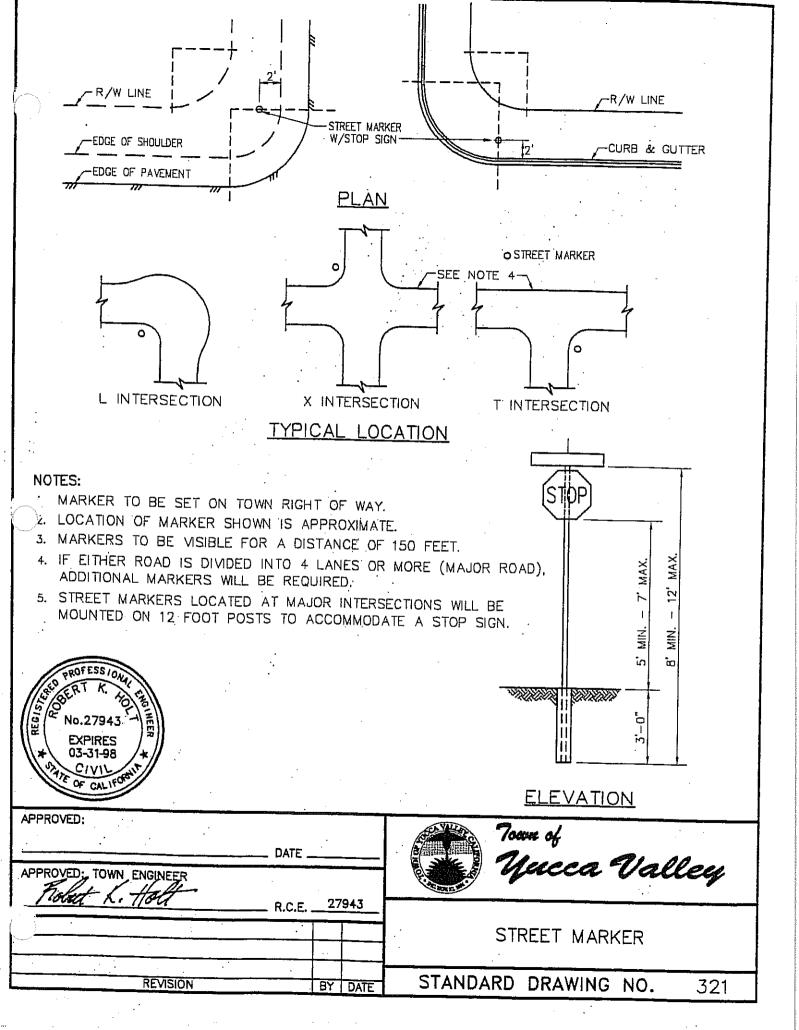
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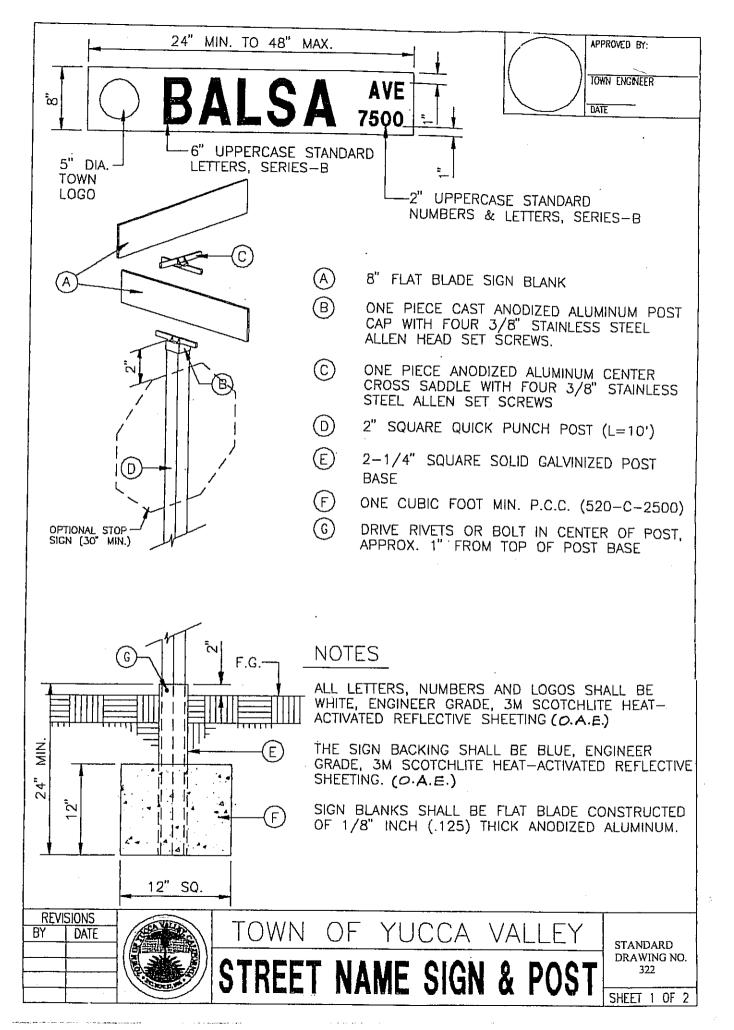
RECOMMENDED UTILITY INSTALLATION SCHEDULE

- 1. STORM DRAIN
- 2. SEWER
- 3. POWER & TELEPHONE
- 4. CURB & GUTTER
- 5. WATER
- 6. GAS
- 7. PAVING

- WHERE ULTIMATE STREET IMPROVEMENTS ARE TO BE CONSTRUCTED, MINIMUM COVER OF UTILITY LINES MAY BE VARIED TO FACILITATE INSTALLATION.
- 2. THE UTILITY COMPANIES SHALL MAKE EVERY EFFORT TO LOCATE THEIR FACILITIES IN THE RECOMMENDED LOCATIONS, PARTICULARLY IN NEW SUBDIVISIONS.
- 3. EDISON AND TELEPHONE UTILITIES MAY USE A COMMON TRENCH. ALTERNATE LOCATION MAY BE EITHER THE EDISON POSITION OR THE TELEPHONE POSITION.
- * 4. VARIES 3' FROM THE CURB FACE TO 14' FROM Q.
 - 5. THE CENTER 24' OF STREET SHALL BE RESERVED FOR SEWER AND STORM DRAIN INSTALLATION.
 - 6. SURFACE OF VAULT OR MANHOLE MUST MATCH PAVEMENT AND PARKWAY GRADES.
 - REPAIR OF TRENCHES AND REPLACEMENT OF PAVED SURFACING IN EXISTING ROADS SHALL BE IN ACCORDANCE WITH CURRENT "SPECIFICATIONS FOR TRENCH REPAIR."
 - B. WHENEVER POSSIBLE, MANHOLE COVERS SHALL NOT BE PLACED WITHIN THE SIDEWALKS.



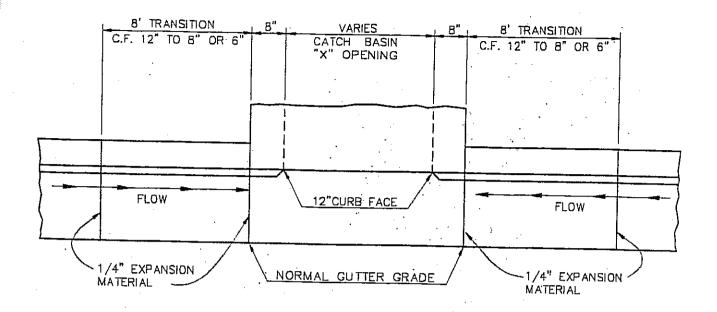




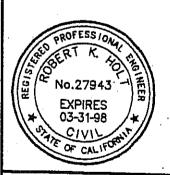
Section 4 - Storm Drain and Drainage Details

<u>Drawing No.</u>	<u>Description</u>
400	Local Depression
401	Local Depression
402	Local Depression No. 2
403	Local Depression No. 3
404	Curb Outlet Structure
405	Outlet Structure
406	Parkway Culvert with Steel Pate Cover
410	Junction Structure No. 1
411	Junction Structure No. 2
411A	Junction Structure No. 2
412	Junction Structure No. 3
413	Junction Structure No. 4
414	Junction Structure No. 5
415	Junction Structure No. 6
416	Junction Structure No. 7
420	Transition Structure No. 1
421	Transition Structure No. 2
422	Transition Structure No. 3
423	Transition Structure No. 4
430	Connector Pipe Collar
431	Concrete Collar for Pipe 12 Inches Through 66 Inches
440	Headwall Wing – Type
441	Headwall "U" – Type
450	Cutoff Wall for Drainage Channel
451	Channel Crossing
460	Inlet Type X (Grate Details)
461	Inlet Type IX (Checkered Plate
462	Storm Drain Cleanout
463	Standard Dry Well
464	Timber Bulkheads
465	Timber Bulkheads
466	Concrete Bulkheads
467	Pipe Supports Across Trenches
468	Bedding and Pay Lines
470	Catch Basin No. 1
471	Catch Basin No. 4 (Sht. 1 of 2)
471A	Catch Basin No. 4 (Sht. 2 of 2)

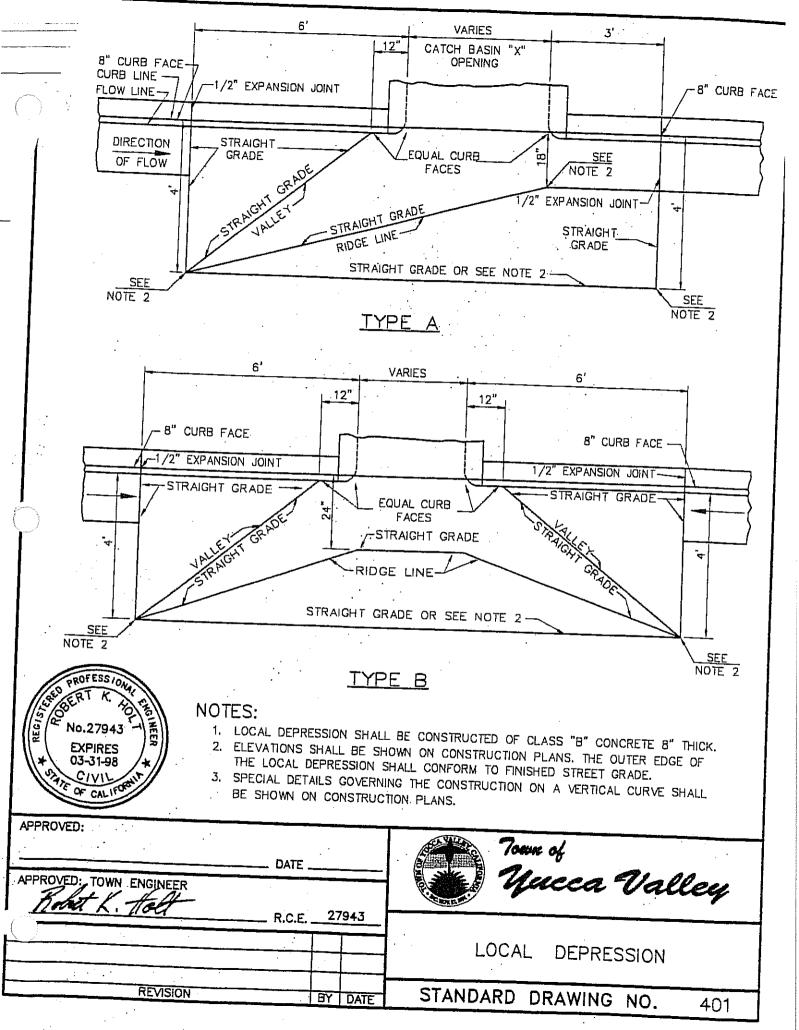
Drawing No.	<u>Description</u>
472	Catch Basin No. 6
473	Catch Basin Reinforcement
474	Special Connections to Catch Basin
475	Type "A" Catch Basin
476	Catch Basin Mountain Roads
476A	Catch Basin Mountain Roads
477	Catch Basin Grate
480	Catch Basin Opening
480A	Catch Basin Steel Pate Galvanized Steel Step
481	Removable Protection Bar for Catch Basins
481A	Detail of Catch Basin Opening & Installation Details
482	Standard Drop Step
483	Manhole Frame & Cover for Catch Basins
490	Storm Drain Manhole No. 1 (Sht. 1 of 2)
490A	Storm Drain Manhole No. 1 (Sht. 2 of 2)
491	Storm Drain Manhole No. 2
492	Storm Drain Manhole No. 3
493	Storm Drain Manhole No. 4
493A	Storm Drain Manhole No. 4
494	Manhole Shaft for Cast Pipe
495	Standard Pressure Manhole Shaft
496	Manhole Frame & Cover – Roadway
497	Manhole Frame & Cover – Parkway
498	Manhole Frame & Cover – Non-Rocking
499	Manhole Frame & Cover – Pressure Type

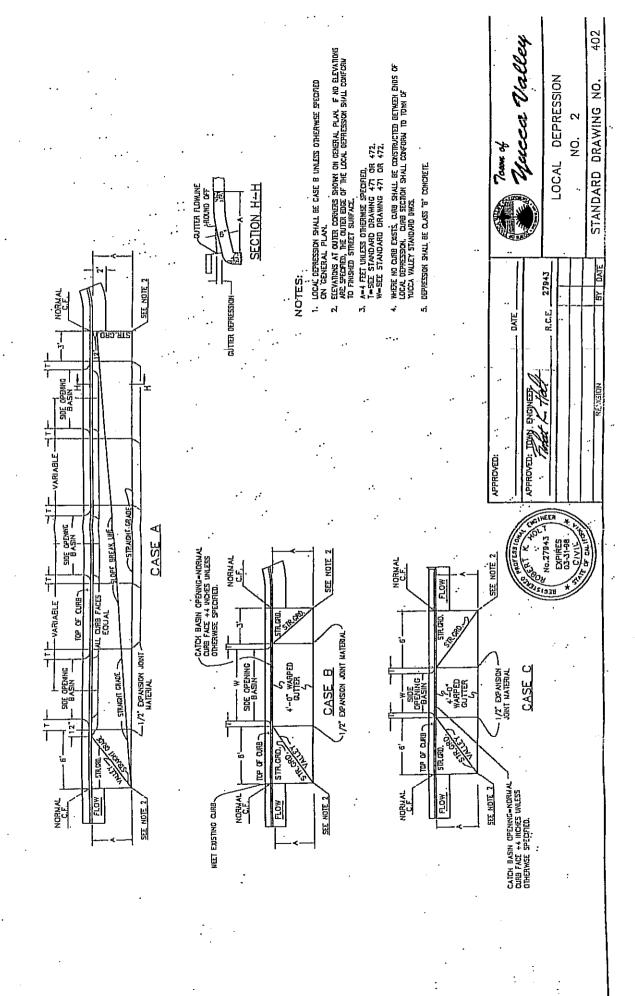


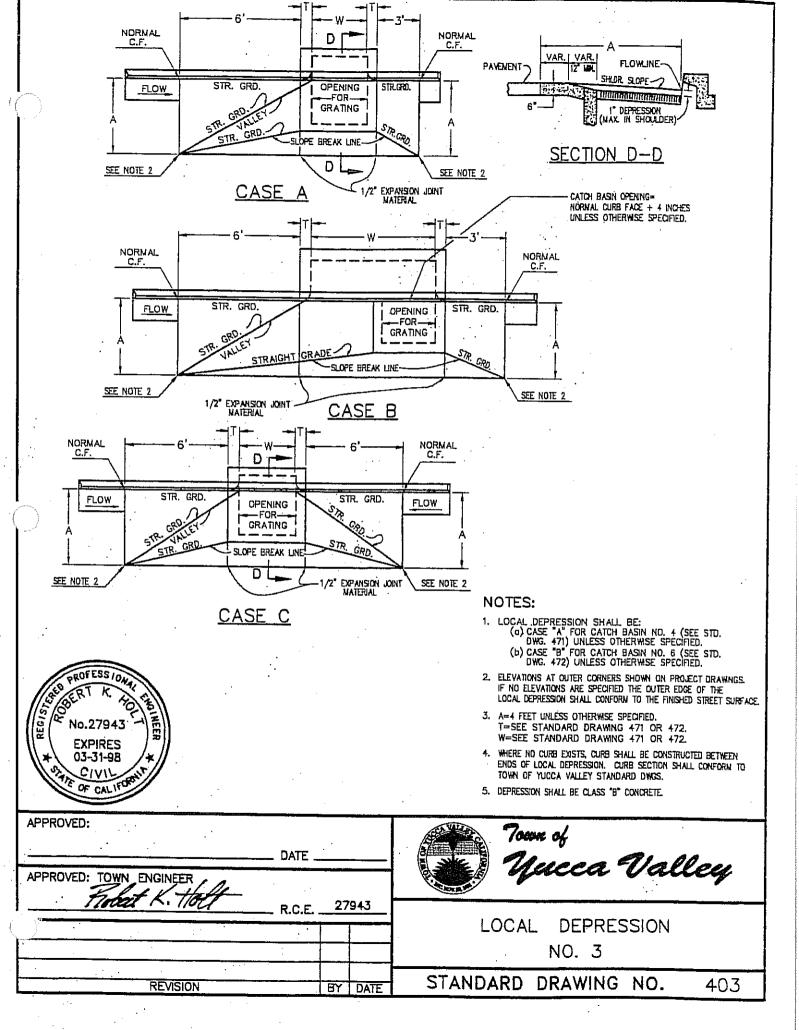
- 1. LOCAL DEPRESSION SHALL BE CONSTRUCTED OF CLASS "B" CONCRETE 6" THICK
- CURB AND GUTTER SHALL BE CONSTRUCTED PRIOR TO CONSTRUCTING TOP OF CATCH BASIN AND CURB TRANSITIONS.

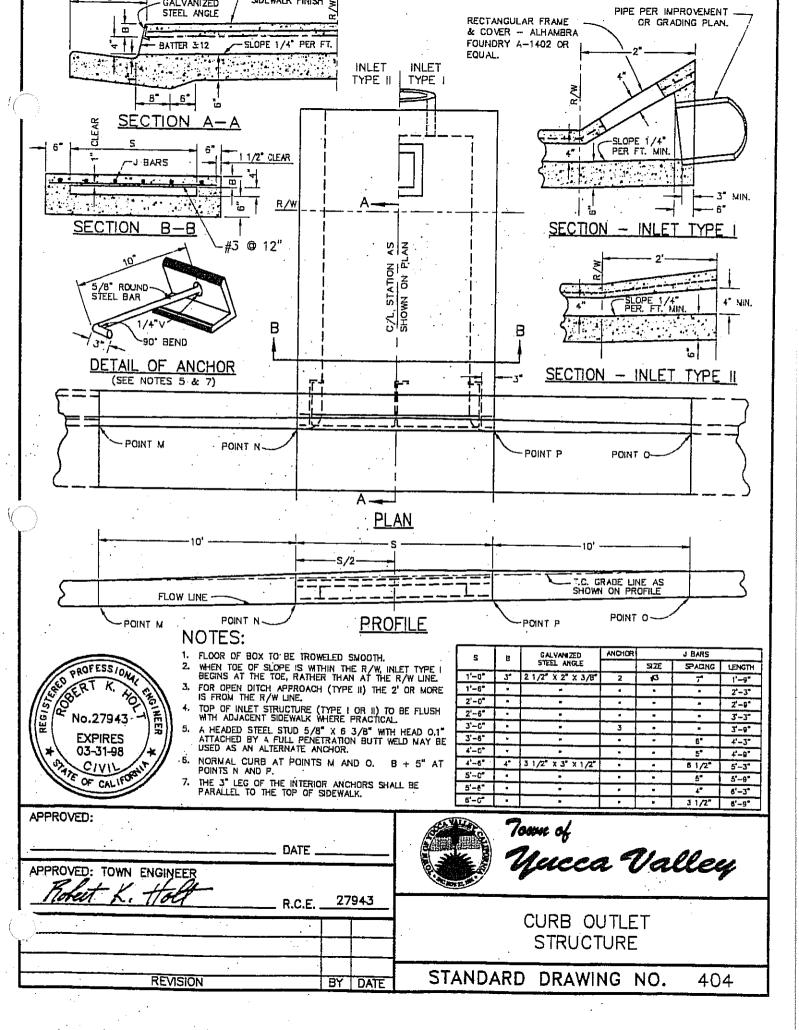


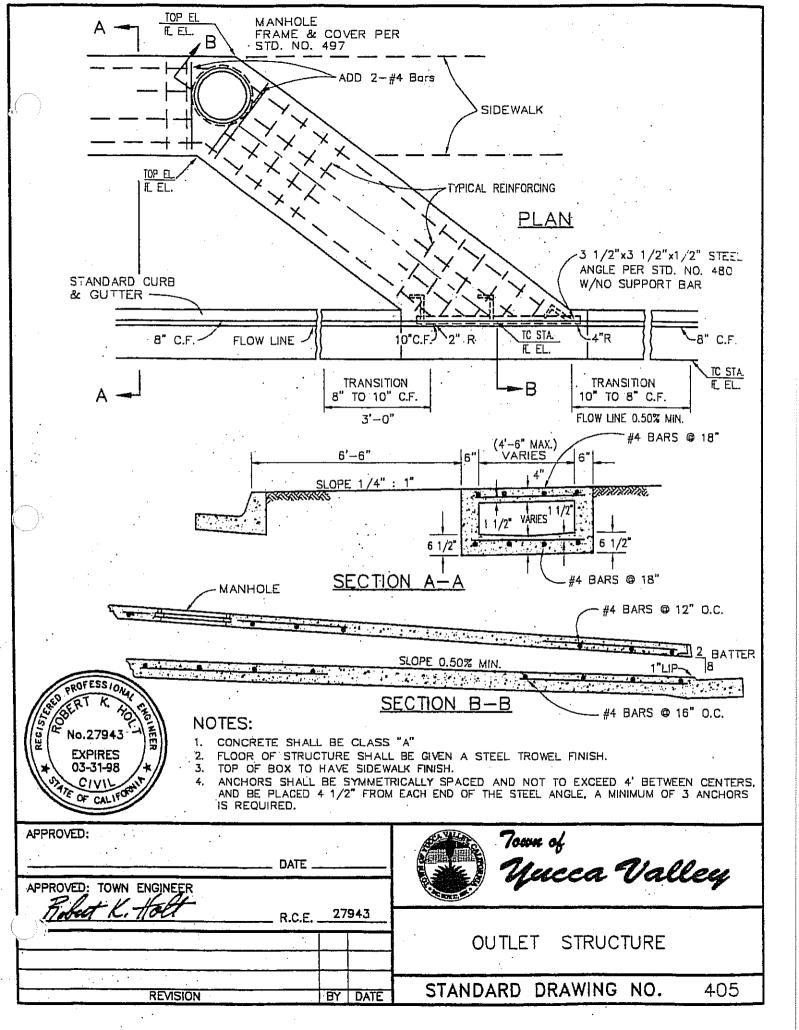
APPROVED: TOWN ENGINEER	DATE	70mm of Yucca Valley
Robert K. Halt	R.C.E27943	
REVISION	BY DATE	LOCAL DEPRESSION STANDARD DRAWING NO. 400

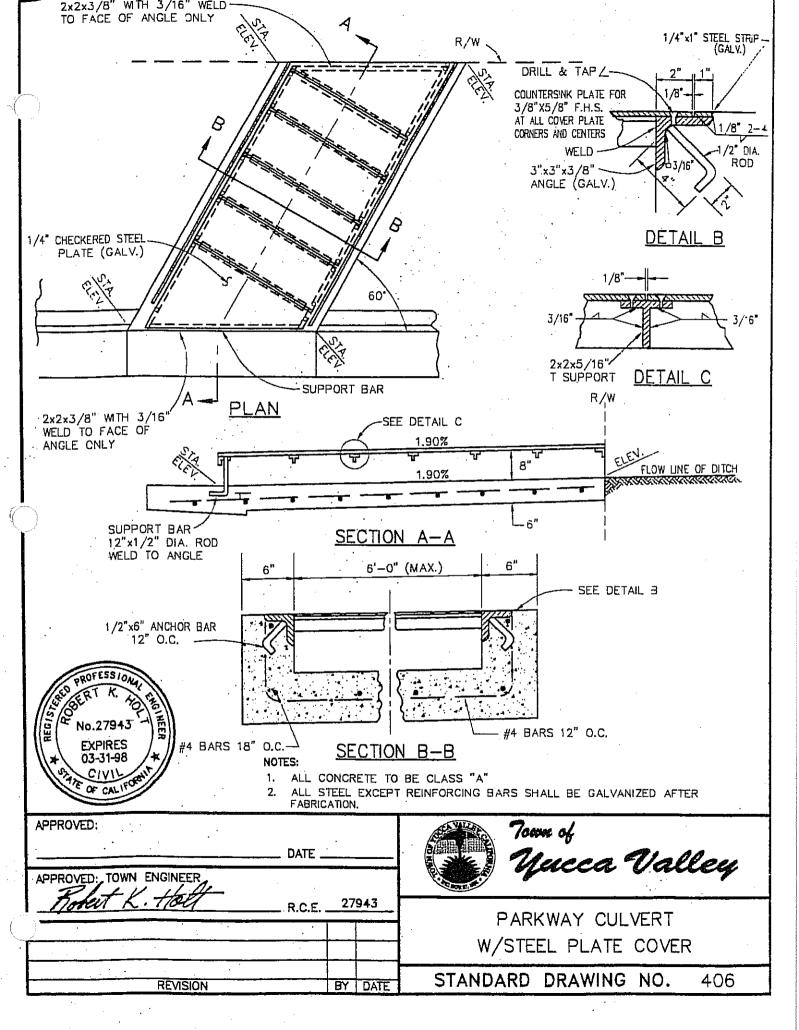


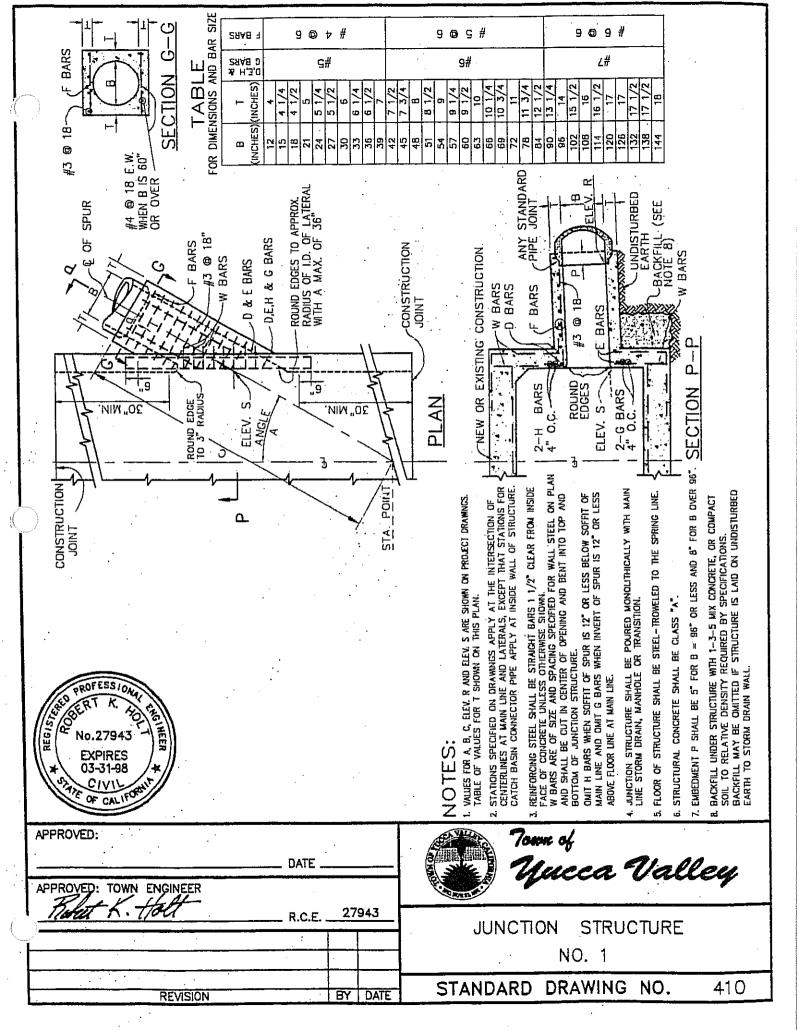


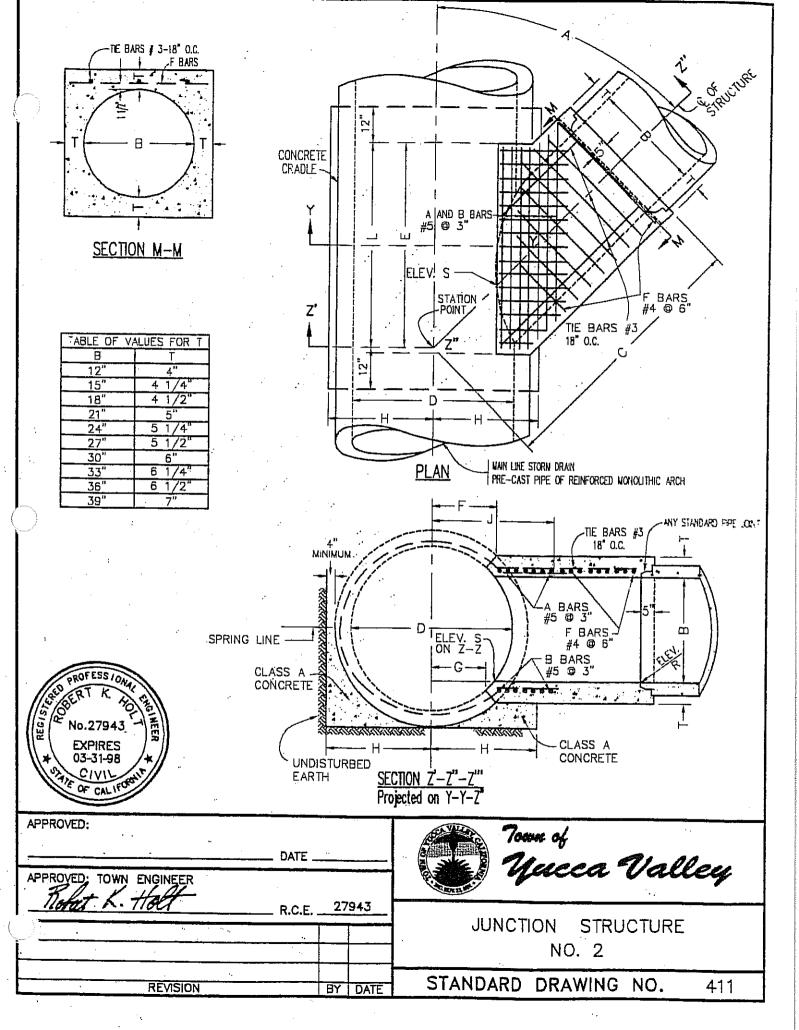










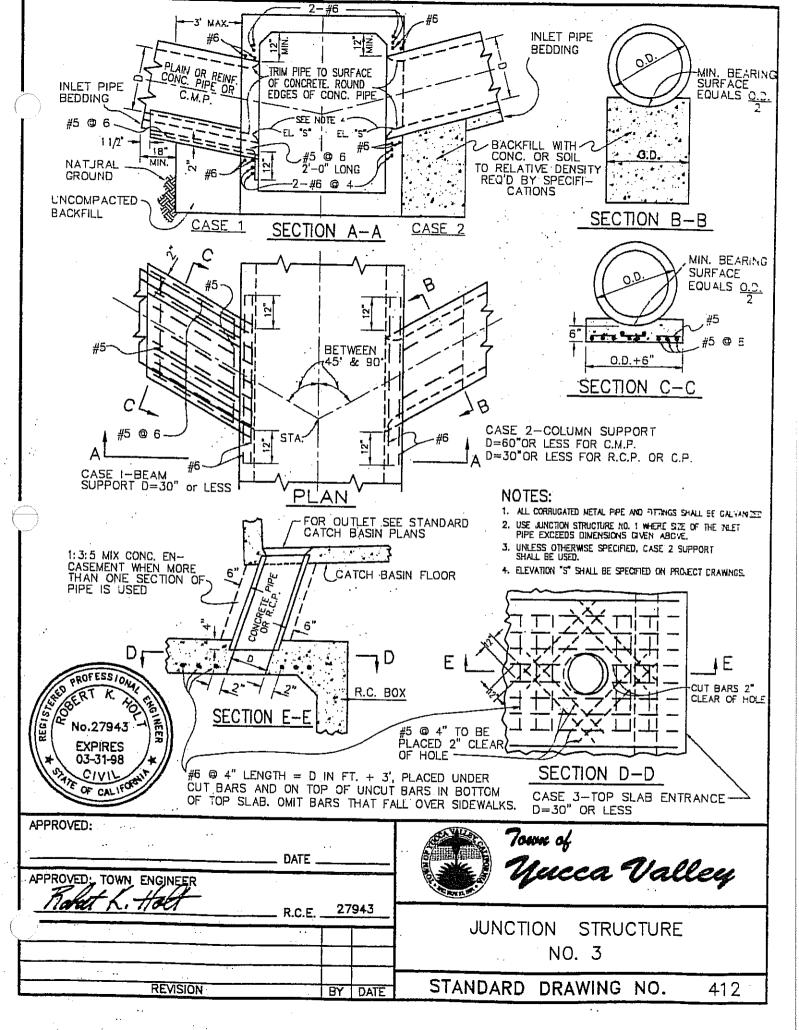


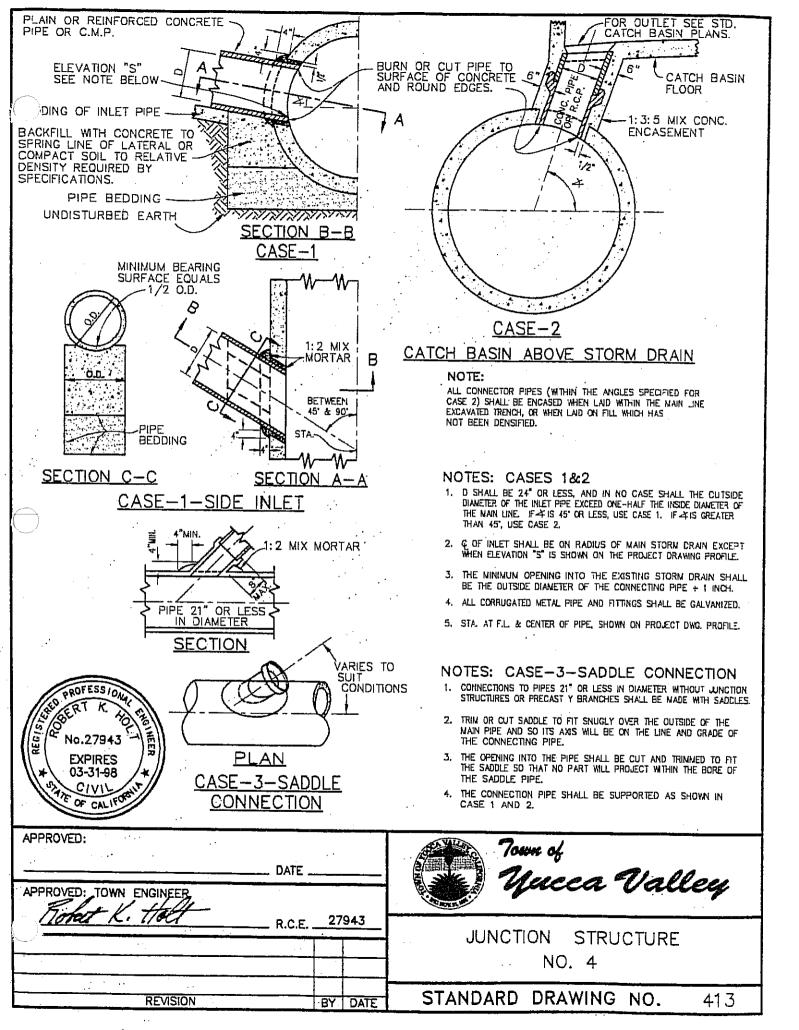
NOTES FOR JUNCTION STRUCTURE NO. 2

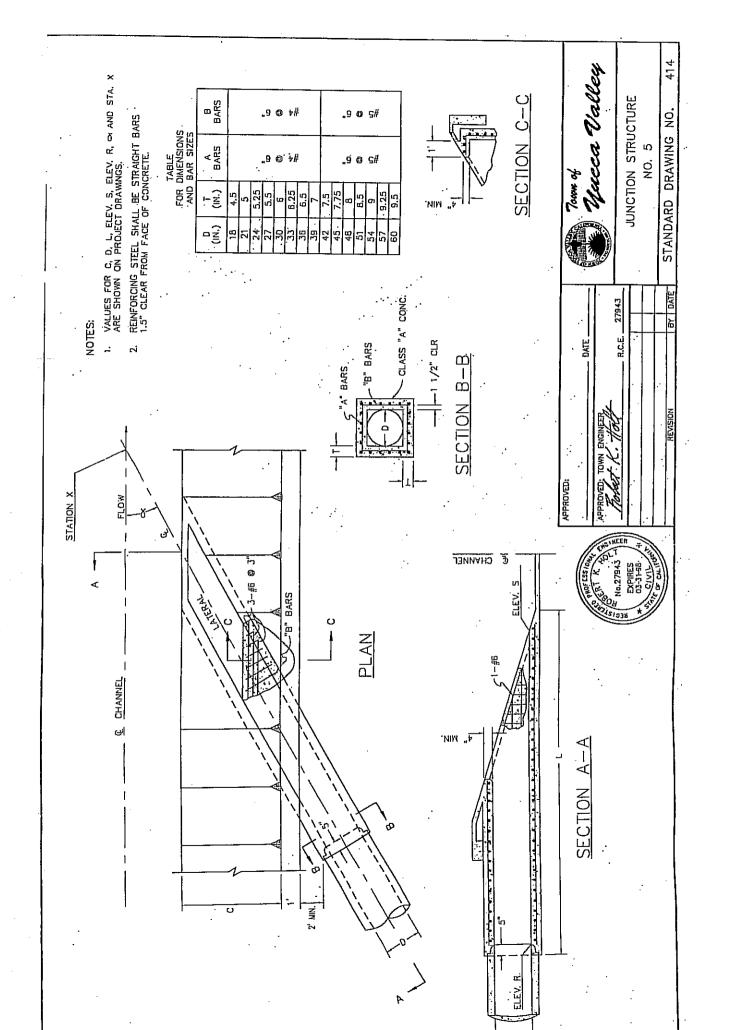
- 1. VALUES FOR A, B, C, D, E, F, G, L, ELEVATION R, AND ELEVATION S. SHOWN ON IMPROVEMENT PLAN.
- 2. PIPE SHALL BE CRADLED IN CLASS A CONCRETE EXTENDING LONGITUDINALLY TO POINTS 1 FT. BEYOND THE LIMITS OF L. H=1/2 OUTSIDE DIAMETER OF PIPE + 4" AS A MINIMUM. CRADLE MAY BE OMITTED ON SIDE OPPOSITE LATERAL INLET WHEN CONSTRUCTED IN CONNECTION WITH EXISTING STORM DRAIN.
- 3. A AND B BARS SHALL BE CARRIED TO POINT NOT LESS THAN J DISTANCE FROM CENTERLINE, $J=\frac{7D}{12}+6$ ".
- 4. RECTANGULAR OPENING IN MAIN LINE PIPE SHALL BE CUT WITHIN THESE LIMITS NORMAL TO PIPE SURFACE WITHOUT DAMAGING STEEL. VALUES FOR F, G, AND L ON IMPROVEMENT PLAN.
- 5. TRANSVERSE REINFORCEMENT IN PIPE SHALL BE CUT IN CENTER OF OPENING AND BENT TO UNIFORM DISTANCE FROM TOP AND BOTTOM OF JUNCTION STRUCTURE.
- 6. STRUCTURAL CONCRETE SHALL BE CLASS "A".
- 7. REINFORCING STEEL SHALL BE ROUND, DEFORMED, STRAIGHT BARS, 1-1/2" CLEAR FROM INSIDE FACE OF CONCRETE UNLESS OTHERWISE SHOWN.
- 8. STEEL SCHEDULE AS SHOWN.
- 9. MONOLITHIC ARCH: WHEN JUNCTION STRUCTURE NO. 2 IS SPECIFIED WITH REINFORCED MONOLITHIC ARCH STORM DRAIN, VALUE D SHALL REFER TO THE CLEAR SPAN OF THE ARCH. REINFORCING STEEL SHALL BE CUT AND BENT INTO JUNCTION STRUCTURE THE SAME AS FOR PIPE. CONCRETE CRADLE UNDER REINFORCED MONOLITHIC ARCH IS NOT REQUIRED.
- 10. FLOOR OF STRUCTURE SHALL BE STEEL-TROWELED TO SPRING LINE.

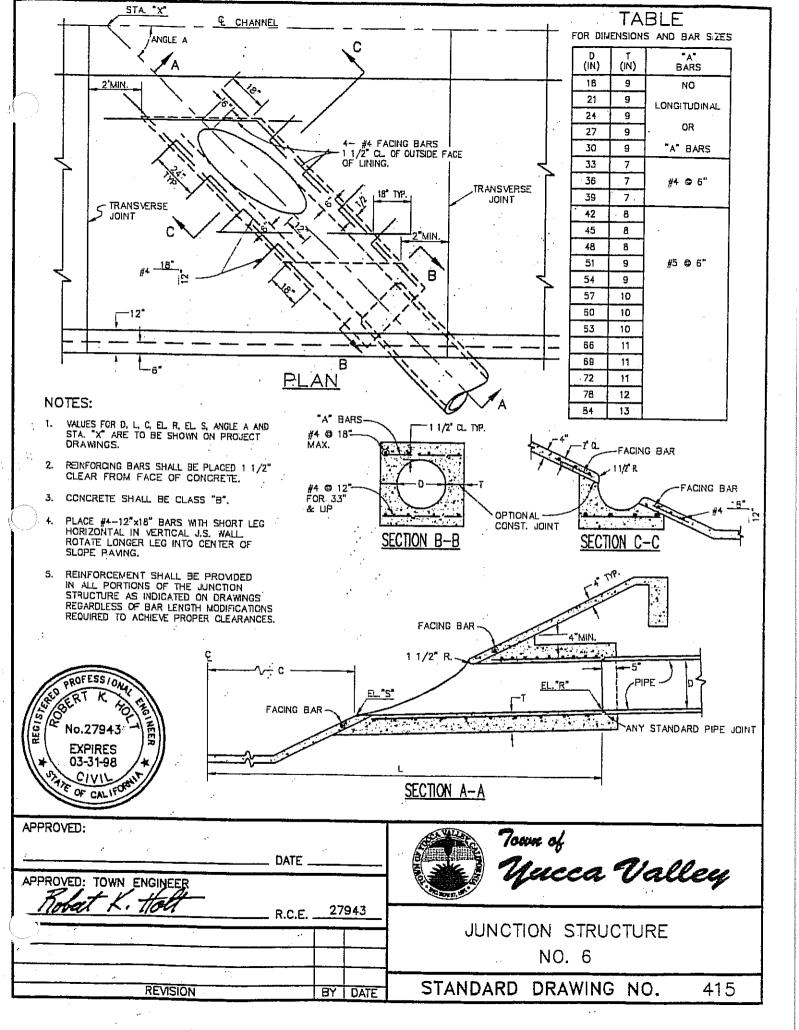


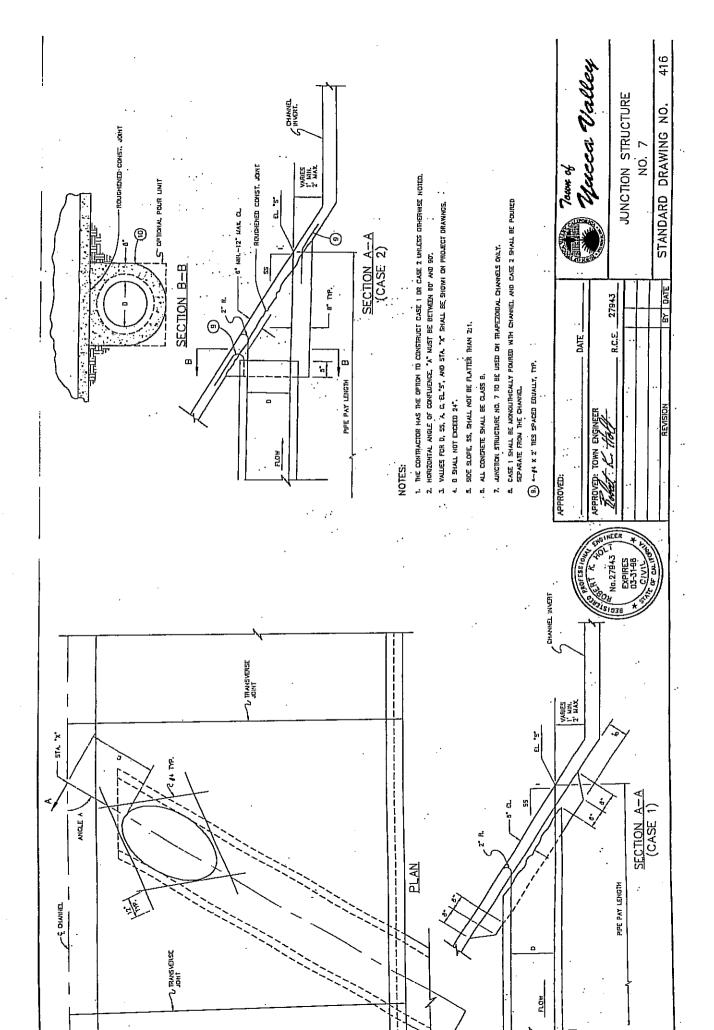
APPROVED:	DATE	70mm of Uneca Valley	
APPROVED: TOWN ENGINEER Robert L. Holl	R.C.E. <u>27943</u>	JUNCTION STRUCTURE	
		NO. 2	
REVISION	BY DATE	STANDARD DRAWING NO. 411A	

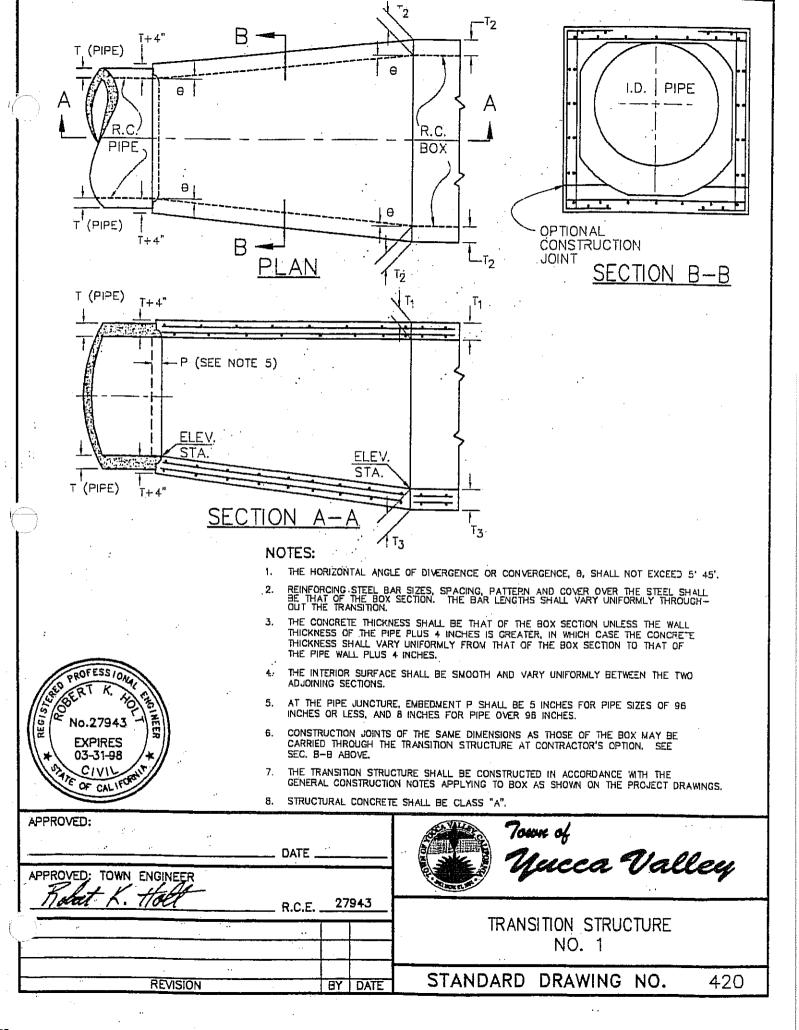


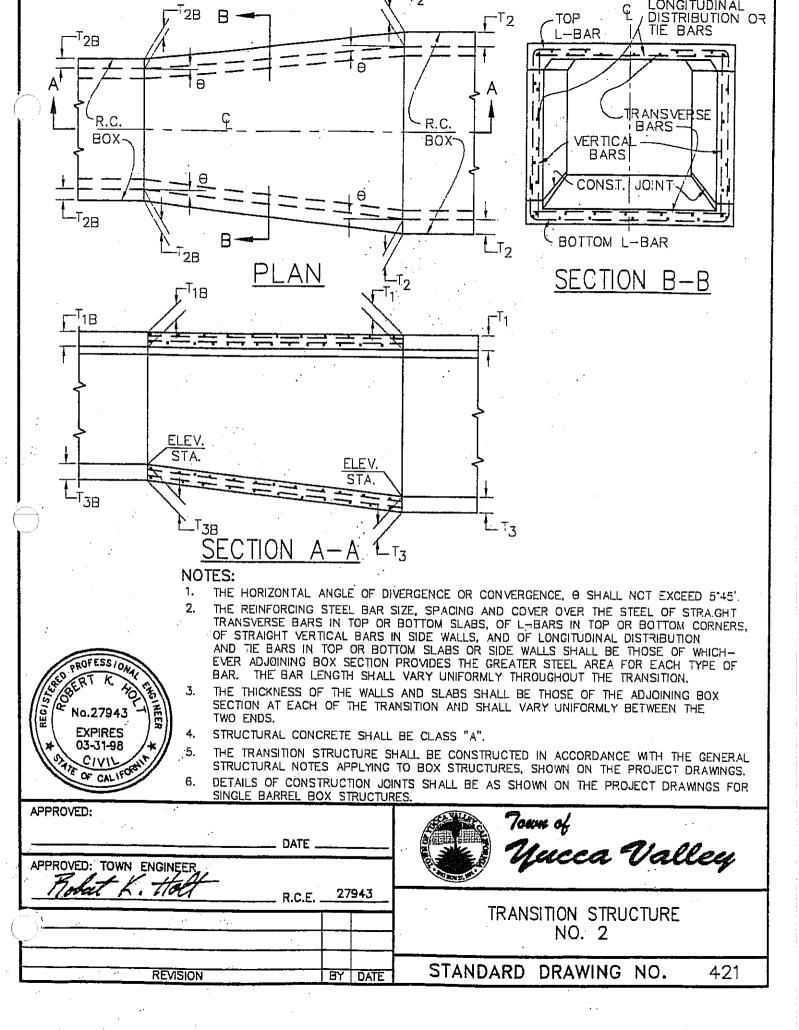


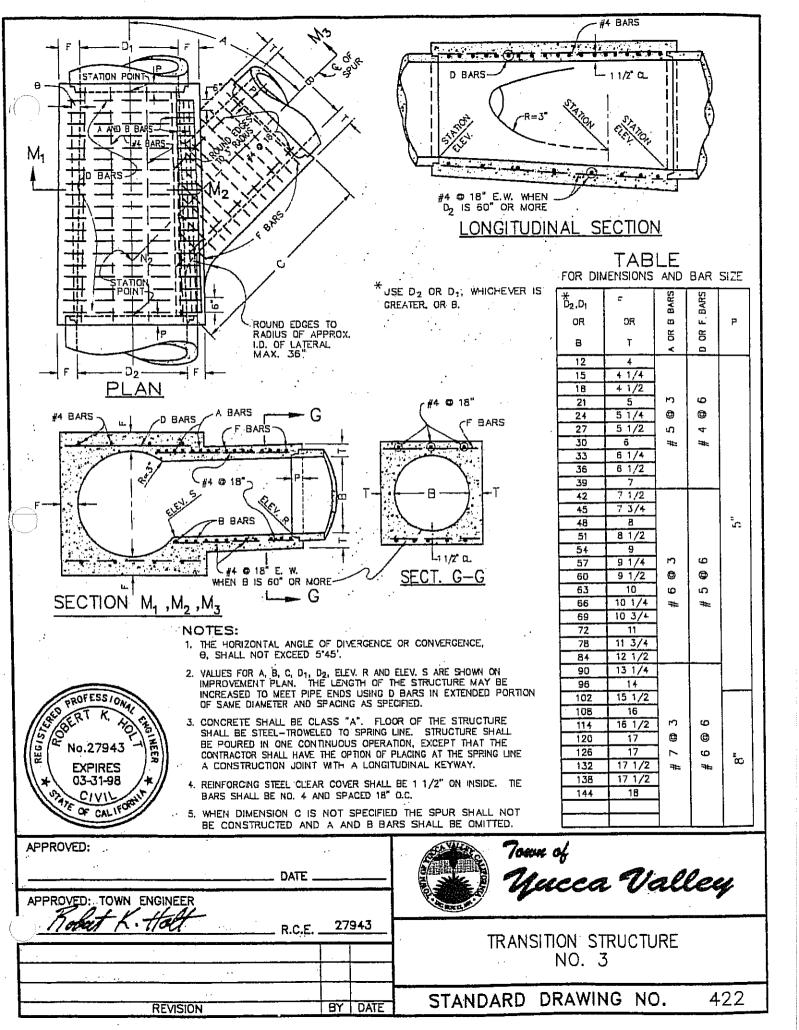


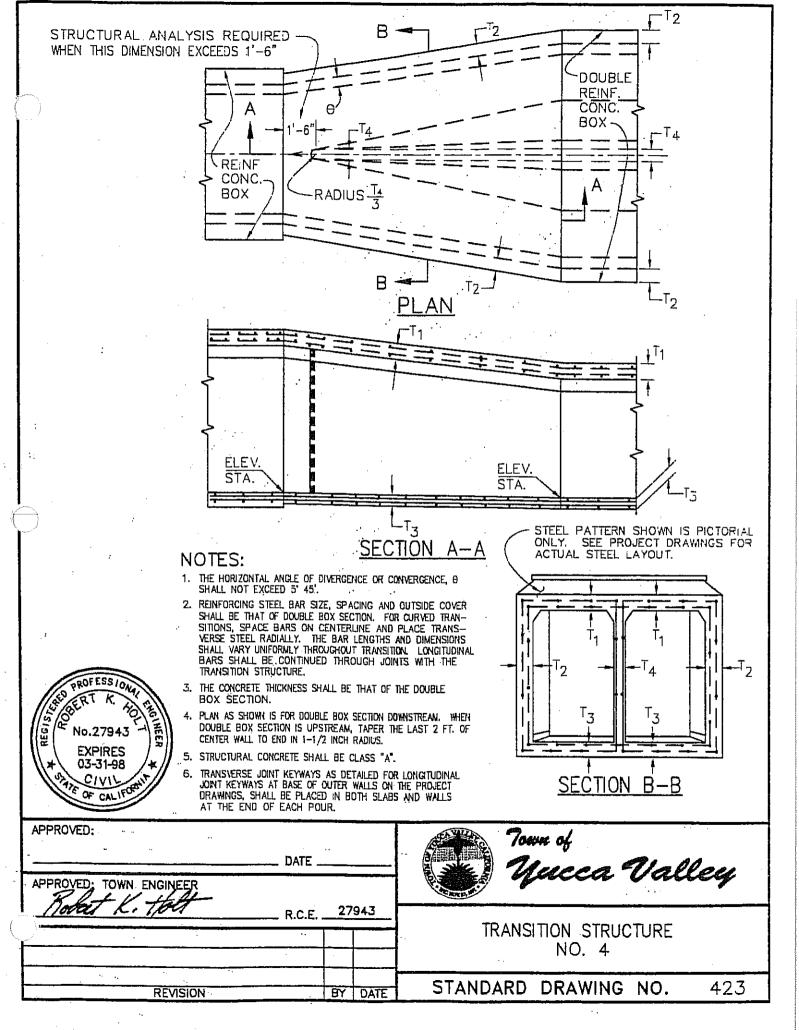


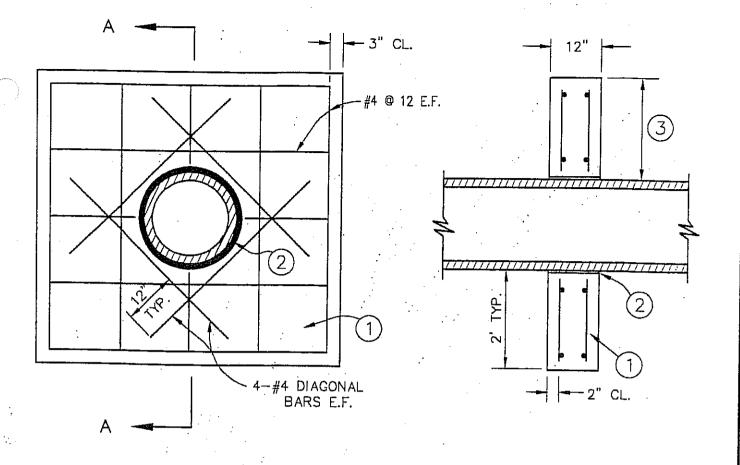












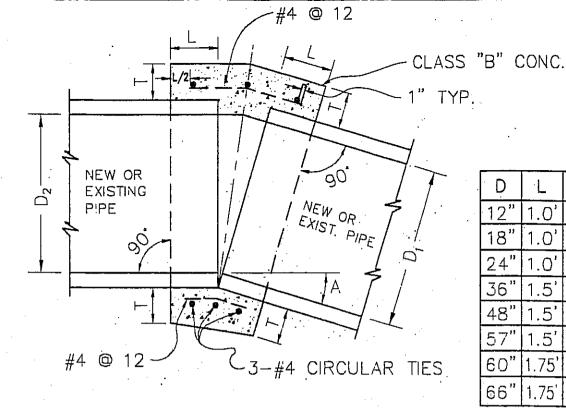
TYPICAL SECTION

SECTION A-A

CONNECTOR PIPE COLLAR

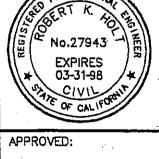
- PROFESS / ONAL PROFES
- 1 CONCRETE SHALL BE CLASS "B" CONCRETE.
- 2 1/2" PREFORMED BITUMINOUS JOINT MATERIAL.
- 3 2' WTH MIN. 6" BELOW GRADE OR AS DIRECTED BY ENGINEER.

APPROVED: DATE APPROVED: TOWN ENGINEER	70000 of Uucca Valley
R.C.E. 27943	CONNECTOR PIPE COLLAR
REVISION BY DATE	STANDARD DRAWING NO. 430

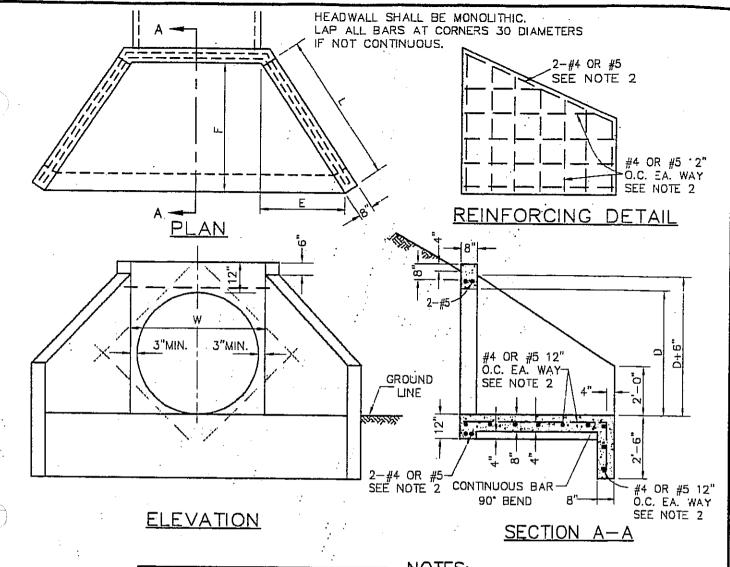


D	L	Т
12"	1.0'	4"
18"	1.0	5
24"	1.0	6"
36"	1. 1.	8"
48"	1.5	10"
57"	1.5	10"
60"	1.75'	11"
66"	1.75	11"

- 1. A CONCRETE COLLAR IS REQUIRED WHERE THE CHANGE IN GRADE EXCEEDS 0.10 FT, PER FOOT, OR IF CHANGE IN ALIGNMENT EXCEEDS 0.10 FT PER FOOT.
- 2. WHERE PIPES OF DIFFERENT DIAMETERS ARE JOINED WITH A CONCRETE COLLAR. L AND T SHALL BE THOSE OF THE LARGER PIPE. D=D1 OR D2 WHICHEVER IS GREATER.
- 3. FOR PIPE LARGER THAN 66" A SPECIAL COLLAR DETAIL IS REQUIRED.
- 4. FOR PIPE SIZE NOT LISTED USE NEXT SIZE LARGER.
- 5. OMIT REINFORCING ON PIPES 24" AND LESS IN DIAMETER AND ON ALL PIPES WHERE ANGLE "A" IS LESS THAN 10',
- 6. WHERE REINFORCING IS REQUIRED, THE DIAMETER OF THE CIRCULAR TIES SHALL BE D+(2x WALL THICKNESS)+8".
- 7. WHEN DIS EQUAL TO OR LESS THAN DZ, JOIN INVERTS AND WHEN DIS GREATER THAN Do, JOIN SOFFITS.
- 8. PIPE MAY BE CORRUGATED METAL PIPE, CONCRETE PIPE, OR REINFORCED CONCRETE PIPE.



APPROVED: APPROVED: TOWN ENGINEER	DATE	70000 of Uucca Valley
Robert L. Halt	R.C.E. 27943	CONCRETE COLLAR
		FOR PIPE 12 INCHES THROUGH 66 INCHES
REVISION	BY DATE	STANDARD DRAWING NO. 431

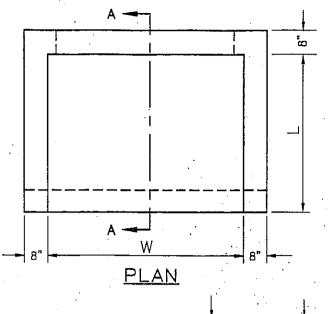




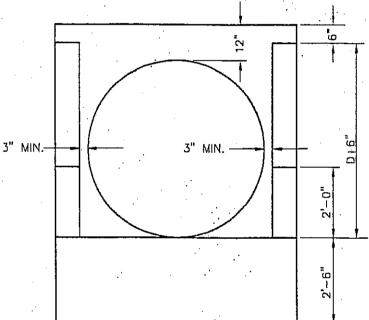
	DIMENSIONS						
PIPE DIA.		E	F	W			
24"	4'-9"	2'-8"	4'-0"	2'-6"			
30"	5'-5"	3'-0"	4'-6"	3'-0"			
36"	6'-0"	3'-4"	5 ' -0"	3'-8"			
42"	6'÷7"	3'-8"	5'-6"	4'-2"			
48"	7'-3"	4'-0"	6'-0"	4'-10"			
54"	8'-2"	4'6"	6'-9"	5'-4"			
	•	_					

- 1. HEADWALL SHALL BE CONSTRUCTED OF CLASS "A" CONCRETE.
- 2. REINFORCING STEEL SHALL BE #4 BARS FOR "W" UP TO 60". ABOVE "W"=60" #5 BARS SHALL BE USED. 2" MINIMUM CLEARANCE, 30 DIAMETER LAP, ALL STEEL.
- ADJACENT SLOPES SHALL BE 1-1/2 TO 1 OR FLATTER.
- 4. MULTIPLE PIPES TO BE SET WITH LONGITUDINAL CENTERS 1-2/3 DIAMETERS APART.
- 5. ALL EXPOSED CORNERS TO BE ROUNDED 3/4" RADIUS.
- 6. W SHALL BE INCREASED WHEN MULTIPLE PIPES OR PIPES ON SKEW ARE USED.

APPROVED: TOWN ENGINEER	DATE	70000 of Mucca Valley
Robert K. Holf	R.C.E. 27943	HEADWALL WING — TYPE
REVISION	BY DATE	STANDARD DRAWING NO. 440



DI	DIMENSIONS					
PIPE DIA.	L	W				
24"	4'-0"	2'-6"				
30"	4'-6"	3'-0"				
36*	5'-0"	3'-8"				
+2"	5'-6"	4'-2"				
48"	6'-0"	4'-10"				
54*	6'-9"	5'-4"				

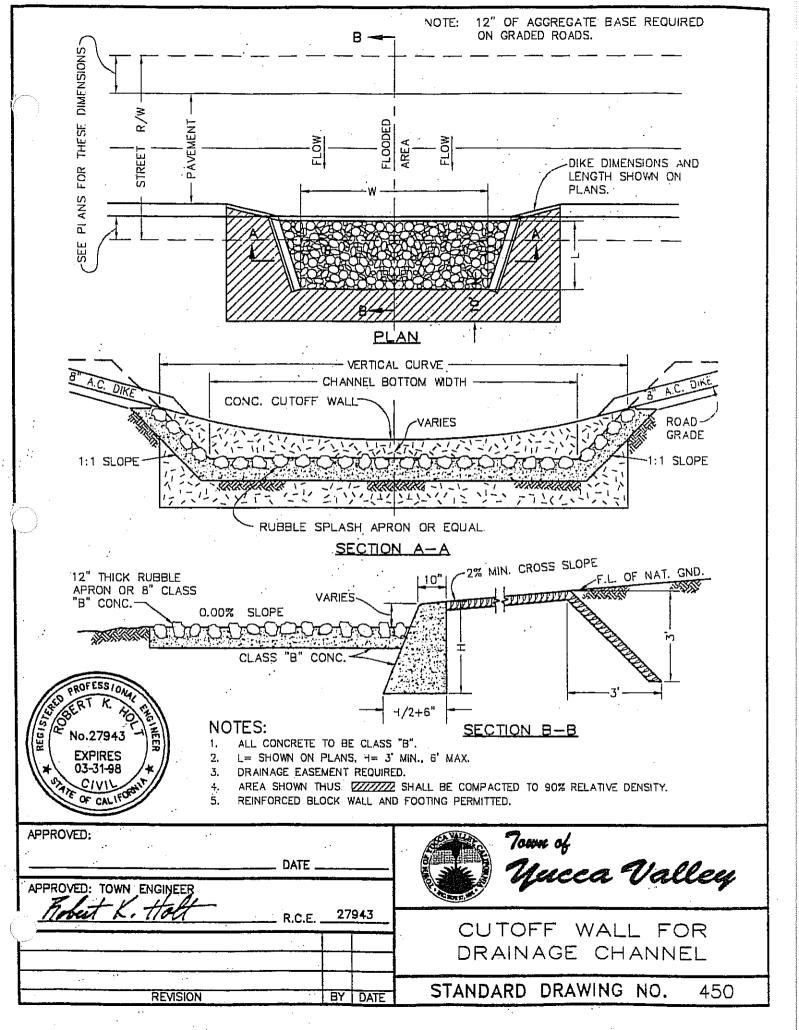


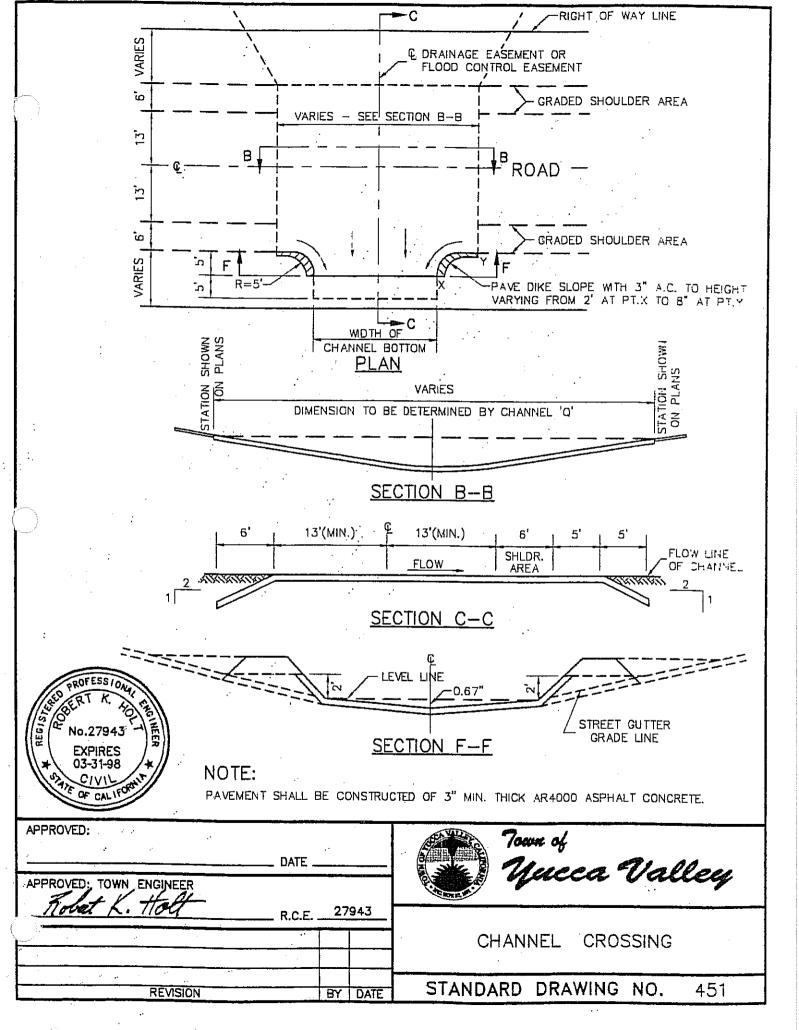


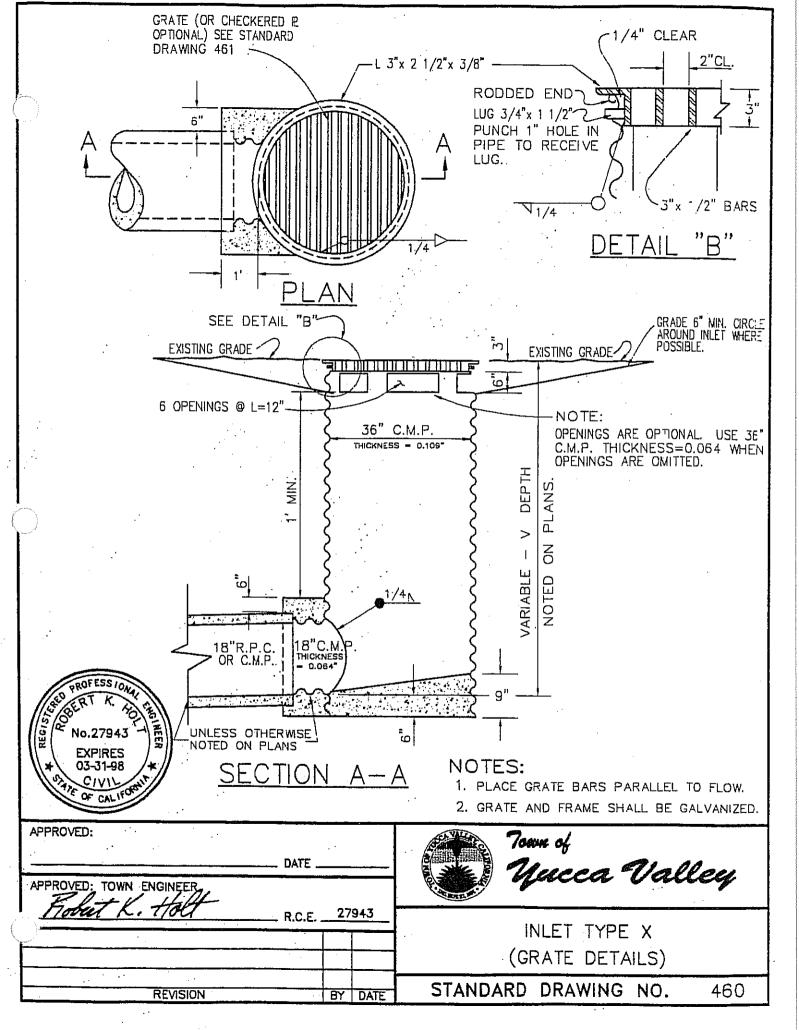
ELEVATION

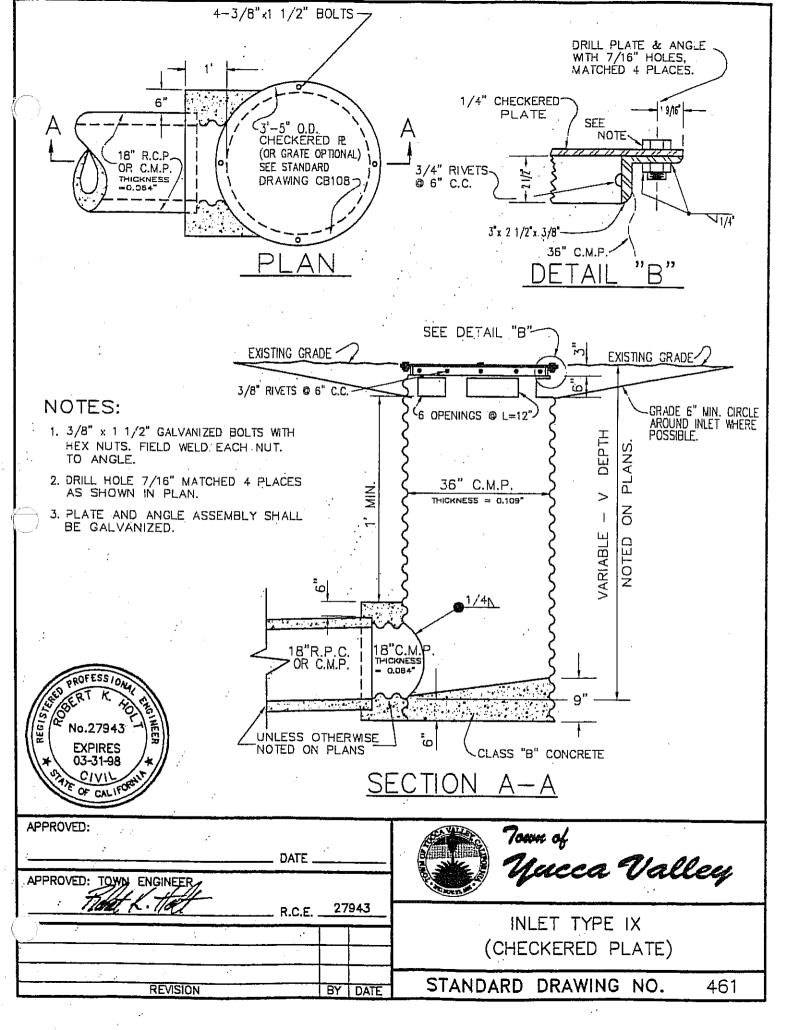
- 1. REINFORCING STEEL IN WALLS AND BASE SHALL BE THE SAME AS STD. NO. 440.
 2. NOTES SHALL BE THE SAME AS STD. NO. 440.
- 3. SECTION A-A IS THE SAME AS STD. NO. 440.

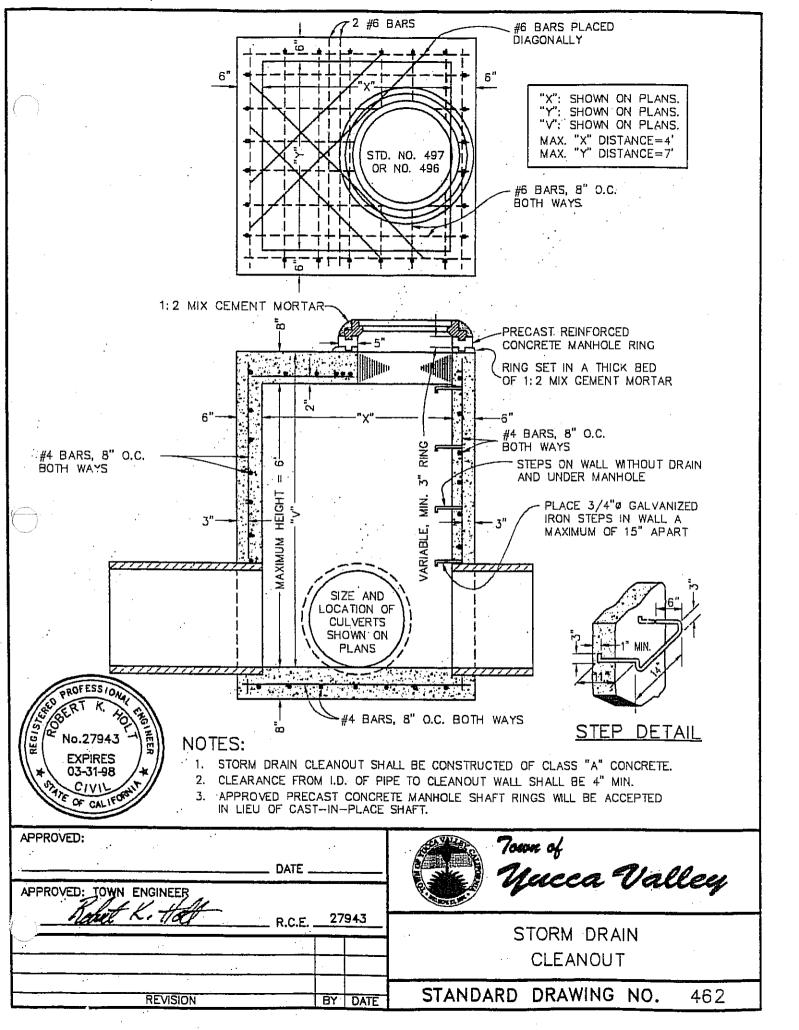
APPROVED:	DATE			70000 of Uucca Valley
APPROVED: TOWN ENGINEER Flobert K. Hold	_ R.C.E27943			HEADWALL
				"U" - TYPE
REVISION		BY D	ATE	STANDARD DRAWING NO. 441

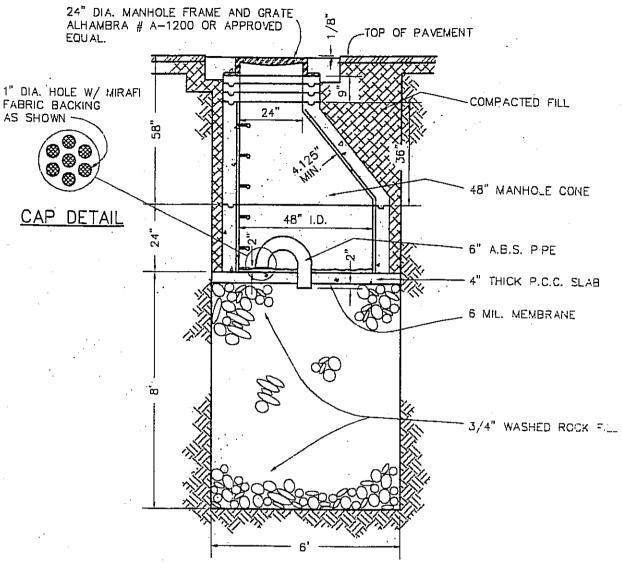








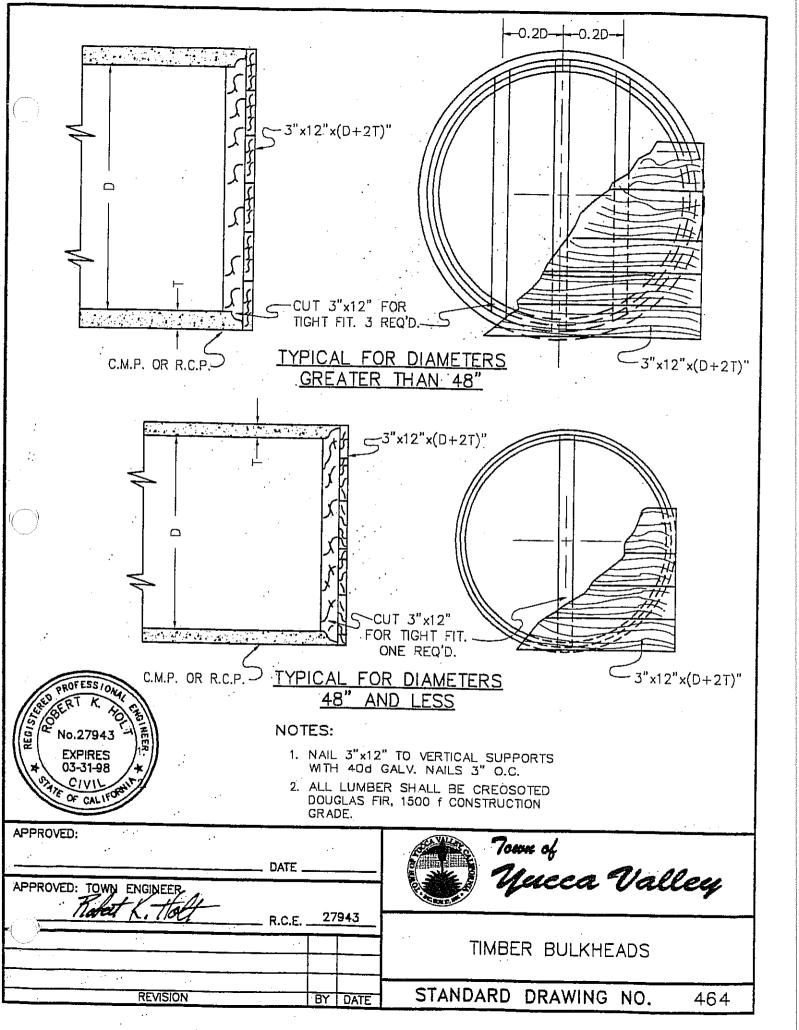


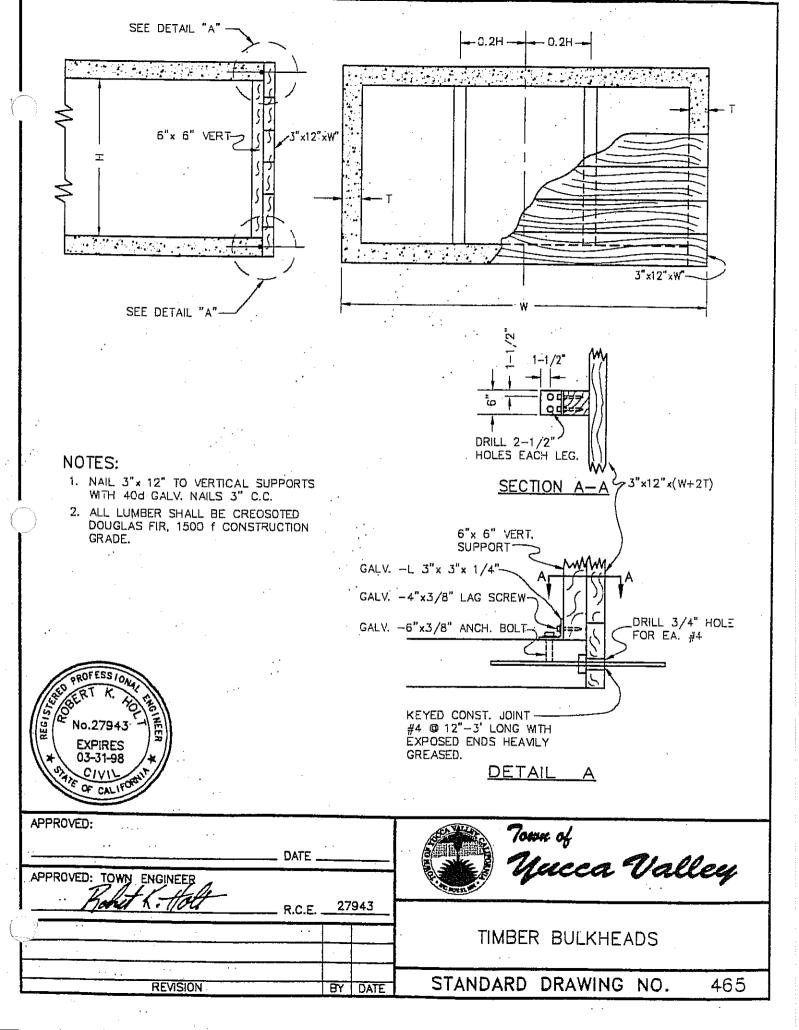


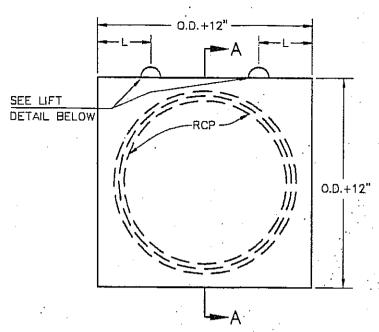


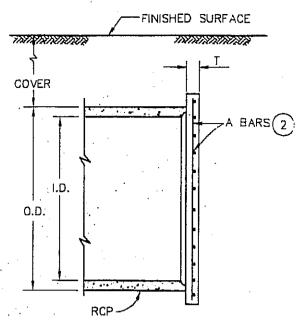
- PRECAST REINFORCED CONCRETE MANHOLE PIPE TO MEET REQUIREMENTS OF ASTM C 478 SPECIFICATIONS WITH INCREASES IN REINFORCEMENT AND WALL THICKNESS TO MEET LOCAL REQUIREMENTS. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 4000 P.S.I. AT 28 DAYS.
- 2. DRYWELL DIMENSIONS AND LOCATION SHALL BE VERIFIED BY A LICENSED SOILS ENGINEER.
- FINAL DESIGN IS SUBJECT TO APPROVAL BY THE TOWN ENGINEER.

APPROVED: APPROVED: TOWN ENGINEER	_ DATE _			70mm of Yucca Valley
More 1 Hoce	R.C.E.	27	943	STANDARD DRY WELL
REVISION		BY	DATE	STANDARD DRAWING NO. 463





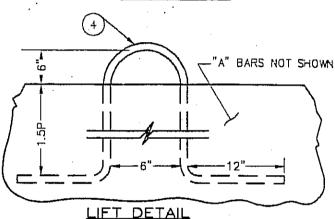




SECTION A-A

FRONT VIEW

	I.D. (IN.)	MAXER COVER (FT.)	. (או) ⊢	A BARS	L.P.
	48-51	5 10 15	4 4 5	4 © 6 4 © 6	1'-6"
İ	54-60	5 10 15	<u>4</u> 5	4 © 6 4 © 6 5 © 6	1'-8"
	63-66	5 10 15	5 5 5	4 © 6 5 © 6 5 © 6	1"-10"
	. 69-72	5 10 15	5 5 5	4 0 6 5 0 6 6 0 6	. 2'-0"
	75-78	5 10 15	5 5	5 0 6 6 0 6 6 0 6	2'-2"
	81-84 .	5 10 15	5 5 6	6 9 6 6 9 6 6 9 5	2'-4"
	87-90	5 10 15	5 6	6 © 6 6 © 6 6 © 5	2'-5"
	93-96	5 10 15	5 6 6	6 © 6 6 © 5 7 © 6	2'-7"



NOTES:

- 1. CONCRETE SHALL BE CLASS "B".
- 2 REINFORCING STEEL SHALL BE CENTERED IN BULKHEAD WITH HORIZONTAL "A" BARS TOWARDS OUTSIDE FACE OF BULKHEAD.
- 3. WHERE CONCRETE BULKHEAD IS USED WITH RCB, T & "A" BARS SHALL BE DETERMINED BY THE HEIGHT OF THE R.C.B.
- 4 LIFTS SHALL BE WOVEN STEEL CABLE WITH SAME MIN. DIAMETER (d) AS "A" BARS. WEAVE CABLE THROUGH HORIZONTAL "A" BARS. COAT EXPOSED PORTION OF CABLE LIFTS WITH AN APPROVED BITUMINOUS PAINT PRIOR TO BACKFILLING TRENCH.

APPROVED);			
· 		DATE _		
APPROVED	DE TOWN, ENGINEER TOOKET K. HOLL	R.C.E.	27	943
· Company		¥ *		
	REVISION	,	BY	DATE

No.27943

EXPIRES 03-31-98

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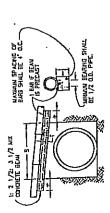


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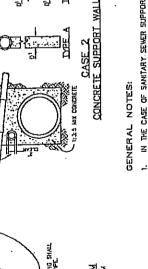
CONCRETE BULKHEAD

STANDARD DRAWING NO.

466



CASE 1
REINFORCED CONCRETE BEAM
* SEE TABLE BELOW FOR MINIMUM
LENGTH OF BEAMIN.



OLAS OF 1255 MX TO EXSTING CONDICETE REINFORCED CONCRETE PIPE CASE 3 CAST IRON PIPE OR SPUN A Link Y X 2000 D STUM R.C. PIPE ON CL. PIPE

1/2 Ci +2 Not Less THAN 6

G.D. OF GAS OR WATER MAIN OR DTHER CONDUIT OR DUCT

MOENED SUPPORT

SECTION E-E

7m1

, E

, j

IN THE CASE OF SANTARY SEWER SUPPORTS PER CASE 1, 2 OR 3 OF THIS STANDARD, THE SEWER SHALL BE ENCASED PER THE SECTION E-E, AND THE SUPPORT SHALL BE LENGTHENED AND WIDENED TO FILLY SUPPORT SUCH ENCASEMENT.

ALLOWABLE SPANS FOR CAST'IRON PIPE

CLASS 250 PIPE INSIDE DIAMETER

CLASS 150 PIPE INSIDE DIAMETER

F 구인

ANY OF THE CASES SHOWN ON THIS STANDARD MAY BE USED AT THE CONTRACTOR'S OPTION UNLESS OTHERWISE SHOWN ON THE PROJECT DRAWNG.

REINFORCED CONCRETE BEAM

DIMENSIONS OF

DEPTH OF COVER

- THE MINIMUM LENGTHS OF BEARING SHOWN AT THE ENDS OF R.C. BEAMS, CAST IRON AND STEEL PIPES SHALL BE INCREASED IF SO DIRECTED BY THE EXGINEER.
- "S" IN ALL CASES EQUALS THE SPAN OF THE PIPE SUPPORT NEASURED ALONG ITS CENTERLINE. BETWEEN THE SIDES OF THE TRENCH OR TO CENTERLINE OF COLUMN SUPPORTS.

CASE 1 NOTES:

- WOTH OF BEAM SHALL BE DUTSIDE DIAMETER OF PIPE PLUS, 2".
- REINFORCING STEEL SHALL BE PLACED 1 1/2" CLEAR FROM THE SIDES AND BOTTOMS OF BEAMS.
- IF BEANS ARE PRECAST, ENDS OF BEANS SHALL BE BEDDED IN 1:31:5 MIX CONCRETE TO EDGE OF TRENCH.
 - 1:2 MIX MORTAR SHALL BE PLACED BETWEEN TOP OF BEAMS AND BOTTOM OF PIPE TO GIVE BEARING.

CASE 2 NOTES:

- Supporting wall shall have a firn bearing on the subgrade and against the soes of the excavation.
 - WALL SHALL BE AT LEAST 2" FREE AND CLEAR OF GAS OR WATER MAIN OR OTHER CONDUIT OR DUCT.
 - EITHER TYPE A OR TYPE B CROSS SECTION NAY BE USED AT CONTRACTOR'S OPTION.
- WHENEVER SO DRECTED BY THE ENGINEER, THE CONTRACTOR SHALL PIERCE THE WALL WITH SUITABLE OPENINGS TO PREVENT PRESSURE RESULTING FROM FLOODING THE BACKFILL. THE VOLUME OF THE PIERCED OPENING SHALL NOT EXCEED 1/2 THE VOLUME OF THE SUPPORTING WALL.

CASE 3 NOTES:

NIK, BEARING

SESIEN OF COVER

16'-1"-25'-0" 6'-1"-16'-0"

MINIMUM LENGTH OF BEARING OF ENDS OF R.C. BEANS

CLASS 2000–D SPUN RENYORCED CONCRETE PIPE OF THE SAME CHAMETER AS EXISTING PIPE MAY BE USED ONLY WHERE MOTH OF TRENCH IS 5'-0" DR LESS.



DATE

Nacca Valley

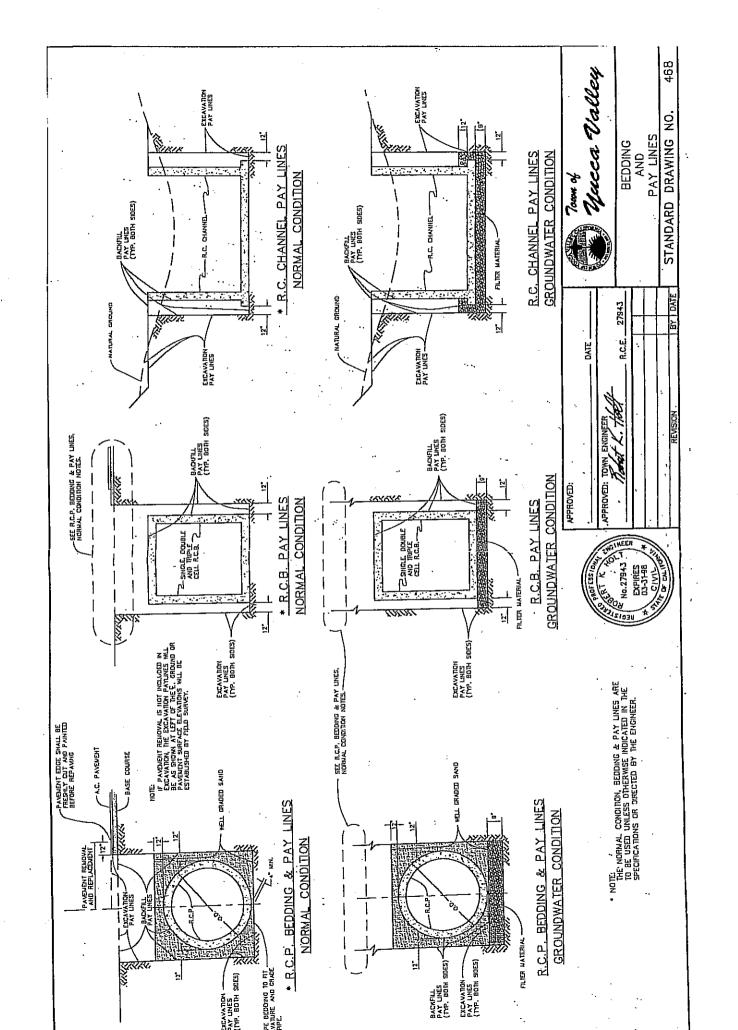
PIPE SUPPORTS ACROSS TRENCHES

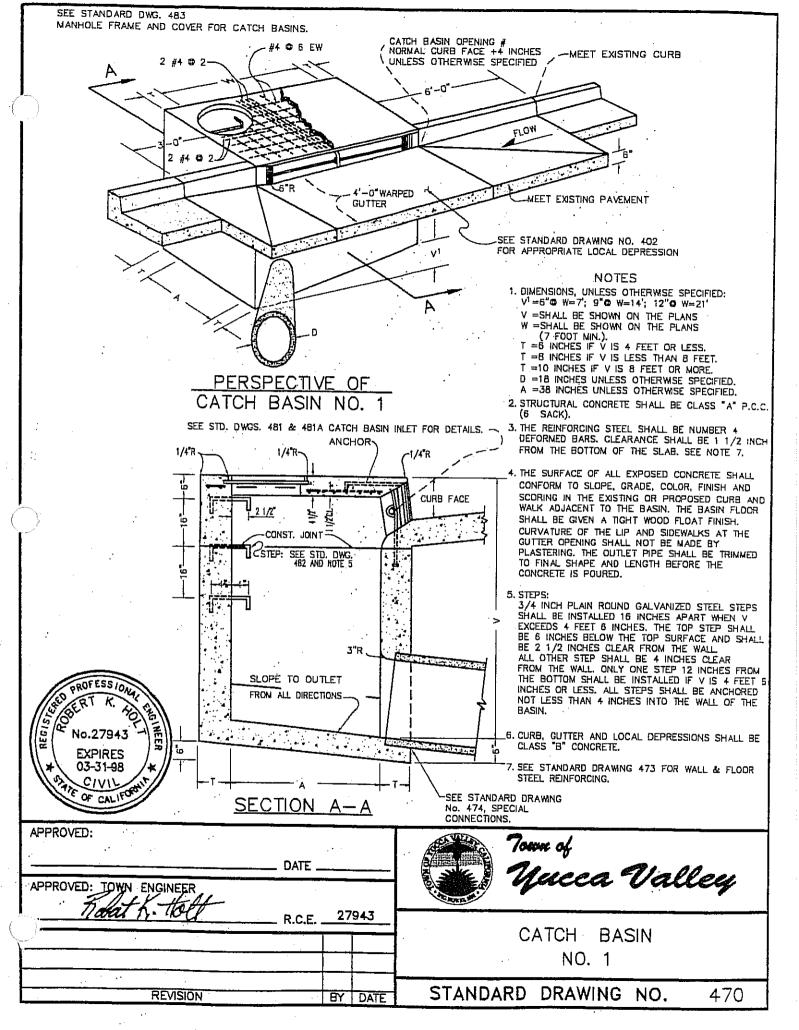
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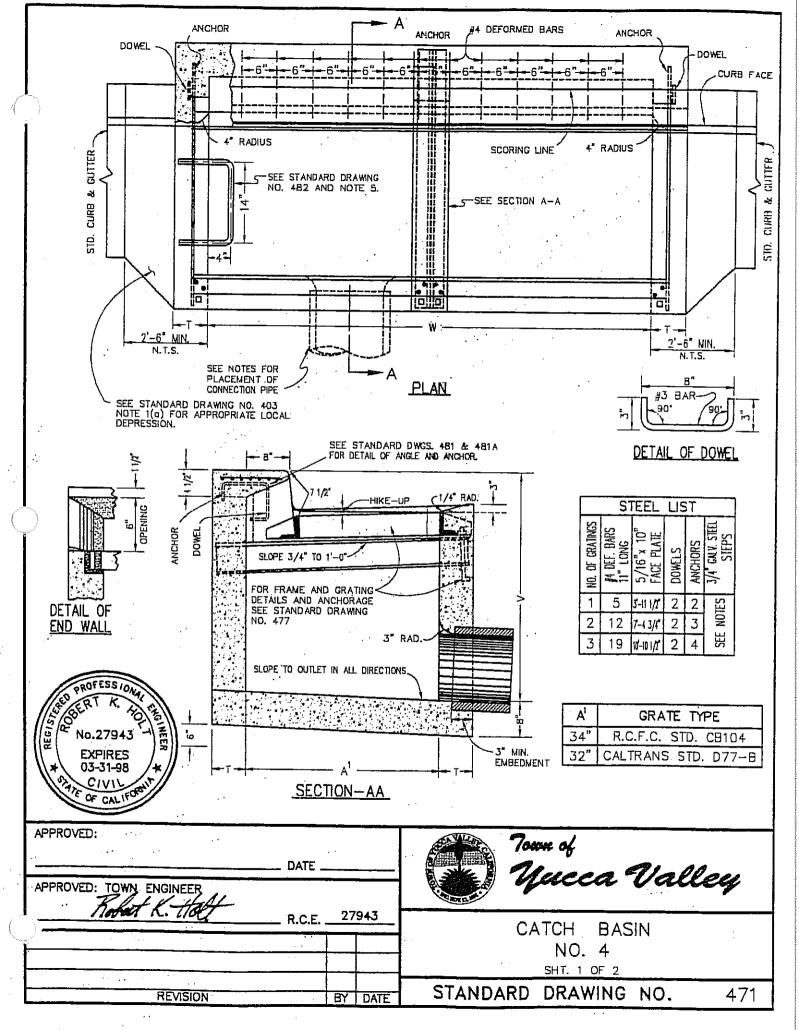
APPROVED: No.27943 921RES 93-31-88 0 CL. 1000

STANDARD DRAWING NO. BY | DATE 27943 R.C.F.

APPROVED:







NOTES FOR CATCH BASIN NO. 4

S = 1-1/2 INCHES.

R = 3/4 INCH.

1. DIMENSIONS: UNLESS OTHERWISE SPECIFIED.

V = 3.5 FEET.

T = 6 INCHES, IF V IS 4 FEET OR LESS.

T = 8 INCHES, IF V IS BETWEEN 4 FEET AND 8 FEET.

T = 10 INCHES, IF V IS 8 FEET OR OVER.

W = 2 FEET, 11-3/8 INCHES FOR ONE GRATING. ADD 3 FEET, 5-3/8 INCHES FOR EACH ADDITIONAL GRATING.

HIKE-UP SHALL BE PARALLEL TO PLANE OF GUTTER - SLOPE 3/4 INCH TO 1 FOOT.

SLOPE OF FLOOR PARALLEL WITH CURB SHALL BE 1 IN 12.

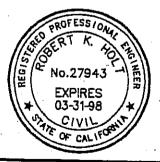
- 2. CONCRETE SHALL BE CLASS "A" PORTLAND CEMENT CONCRETE (6.0 SACK)
- 3. THE REINFORCING STEEL SHALL BE NUMBER 4 DEFORMED BARS. CLEARANCE SHALL BE 1-1/2 INCHES FROM TOP SLAB. SEE STD. DWG. 473 AND NOTE 3.
- 4. THE SURFACE OF ALL EXPOSED CONCRETE SHALL CONFORM TO SLOPE, GRADE, COLOR, FINISH, AND SCORING IN THE EXISTING OR PROPOSED CURB AND WALK ADJACENT TO THE BASIN. THE BASIN FLOOR SHALL BE GIVEN A TIGHT WOOD FLOAT FINISH. CURVATURE OF THE LIP AND SIDEWALLS AT THE GUTTER OPENING SHALL NOT BE MADE BY PLASTERING. THE OUTLET PIPE SHALL BE TRIMMED TO FINAL SHAPE AND LENGTH BEFORE THE CONCRETE IS POURED.
- 5. STEPS: 3/4 INCH PLAIN ROUND GALVANIZED STEEL STEPS ARE REQUIRED AS FOLLOWS:

IF V IS 4.5 FEET OR LESS, NO STEPS ARE REQUIRED.

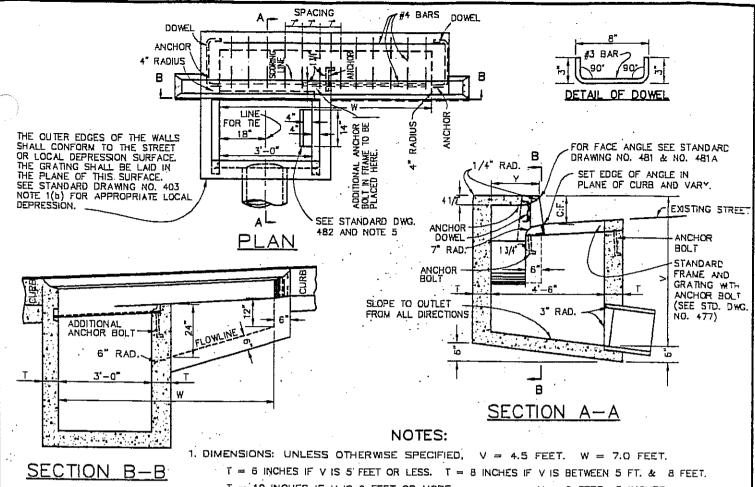
IF V IS MORE THAN 4.5 FEET, AND NOT MORE THAN 5.0 FEET, INSTALL ONE STEP 12 INCHES ABOVE FLOOR OF BASIN.

IF V IS MORE THAN 5.0 FEET, INSTALL STEPS 16 INCHES APART WITH THE TOP STEP 6 INCHES BELOW THE TOP OF GRATING.

ALL STEPS SHALL BE 4 INCHES CLEAR FROM THE WALL AND ANCHORED NOT LESS THAN 4 INCHES INTO THE WALL OF THE BASIN.



APPROVED: TOWN ENGINEER	DATE	Nucea Valley
Maket L. Toll	R.C.E. <u>27943</u>	CATCH BASIN
		NO. 4
		SHT. 2 OF 2
REVISION	BY DATE	STANDARD DRAWING NO. 471A



T = 10 INCHES IF V IS 8 FEET OR MORE. Y = 2 FEET 3 INCHES.

- 2. CONCRETE SHALL BE CLASS "A" PORTLAND CEMENT CONCRETE (6.0 SACK).
- 3. THE REINFORCING STEEL SHALL BE NUMBER 4 DEFORMED BARS. CLEARANCE SHALL BE 1 1/2" FROM THE BOTTOM OF THE SLAB. SEE STANDARD DRAWING 473 - NOTE 3.
- 4. THE SURFACE OF ALL EXPOSED CONCRETE SHALL CONFORM TO THE SLOPE, GRADE, COLOR, FINISH, AND SCORING IN THE EXISTING OR PROPOSED CURB AND WALK ADJACENT TO THE BASIN. THE BASIN FLOOR SHALL BE GIVEN A TIGHT WOOD FLOAT FINISH. CURVATURE OF THE LIP AND SIDE WALLS AT THE GUTTER OPENING SHALL NOT BE MADE BY PLASTERING. THE OUTLET PIPE SHALL BE TRIMMED TO FINAL SHAPE AND LENGTH BEFORE THE CONCRETE IS POURFD.



5. STEPS: 3/4 INCH PLAIN ROUND GALVANIZED STEEL STEPS SHALL BE INSTALLED 16 INCHES APART WHEN V EXCEEDS 4 FEET 6 INCHES. THE TOP STEP SHALL BE 6 INCHES BELOW THE TOP SURFACE AND SHALL BE 2 1/2 INCHES CLEAR FROM THE WALL. ALL OTHER STEPS SHALL BE 4 INCHES CLEAR FROM THE WALL. ONLY ONE STEP 12 INCHES FROM THE BOTTOM SHALL BE INSTALLED IF V IS 4 FEET 6 INCHES OR LESS. ALL STEPS SHALL BE ANCHORED NOT LESS THAN 4 INCHES INTO THE WALL OF THE BASIN.

APPROVED:	DATE	Town of Yucca Valley
APPROVED: TOWN ENGINEER	R.C.E. <u>27943</u>	- Process
		CATCH BASIN NO. 6
REVISION	BY DATE	STANDARD DRAWING NO. 472
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NOTES

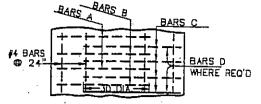
- 1. WALL & FLOORING REINFORCING SHOWN HEREON SHALL BE USED WITH CATCH BASIN STANDARD DRAWINGS.
- REINFORCING STEEL SHOWN HEREON SHALL BE USED IN ALL CATCH BASINS ON STATE HIGHWAYS REGARDLESS OF BASIN LENGTH OR DEPTH.
- 3. PROVIDE WALL & FLOOR STEEL REINFORCING WHEN THE FOLLOWING "V" DEPTHS ARE EQUALED OR EXCEEDED:

BASIN LENGTH=W
TO 7.0'
7' TO 14.0'
14' TO 21.0'

OVER 21.0'

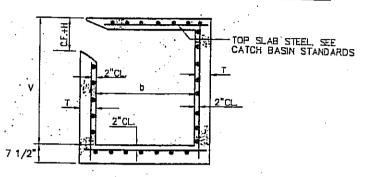
BASIN DEPTH=V
10'
7'
6'
ALL DEPTHS

REINFORCING STEEL SHOWN HEREON SHALL BE USED IN ALL CATCH BASINS WHEN EXCAVATION OR SOIL CONDITIONS REQUIRE BOTH SIDES OF THE WALLS TO BE FORMED REGARDLESS OF BASIN LENGTH OR DEPTH.



FLOOR REINFORCEMENT SECTION 2

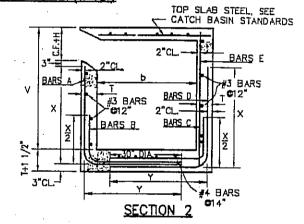
W OF	٧ (FT.)	(N)	FRONT WALL STEEL		REAR & END WALLS & FLOOR STEEL	
	FROM	TO (INCL)		HOR.	VERT.	EACH WAY	
TO 7'		4	6	#30 6"	#30 6*	. # 3 @ 6"	
70 סד	4	В	8	#4© 12"	#40 12°	# 4 @ 12	
דס סד	8	12	10	#440 10"	#40 10"	# 4 0 10"	
14'		4	6	#30 6"	#30 6°	# 3 0 6*	
14'	4	В	8	# 10 12"	#40 12"	# 4 0 12"	
14'	8	10	10	#40 B"	#40 12"	# 4 @ 10"	
14'	10	12	10	#46 6"	#40 12"	# 4 60 10"	



WALL AND FLOOR STEEL

CATCH BASIN REINFORCEMENT-"W" TO 14'(INCL.)

V (FT.)	T (N)	FRONT WALL .	REAR	WALL	STEEL	END WALL STEEL
rnun	(INCL)		BAR A & B	BARS C	BARS D	BARS E	HOR. & VERT.
	4	6	# 3 @ 24"	#3@ 12."		#40 24"	#30 18°
4	5	8	#3 @ 20"	#30 12"		#40 24"	#30 14"
5	6	8	# 3 @ 12"	50 10 1/2"		#40 24"	
6	7	8	# 4 0 17"	#30 8 1/Z		#40 24"	#30 14"
7	8	8	# 4 @ 13"	430 6 1/2°		#40 24"	
8	9	10	# 4 @ 15"	430 7 1/2°		#40 20"	#30 11"
9	10	10	# 4 0 12"	#40 12"		#40 20"	#30 11"
10	11	10	# 5 @ 15"		#40 11"	#40 18"	#30 11"
1.1	12	10	# 5 🗗 16"			#40 13"	
	X=(V	+ T)-	-(C.F.+H+4 1/2")			$\frac{n}{2}$ $\frac{21}{1}$	

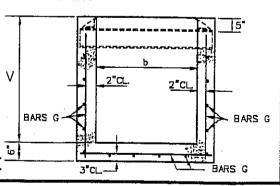


WALL AND FLOOR STEEL

CATCH BASIN REINFORCEMENT-"W" GREATER THAN 14"



ľ	V (FT.)		Ţ (N)	SIDE & END WALL STEEL	
ı	IIVONI	(INCL)		BARS G	
L		4	_6	#3406"	
E	4	8	8	# 4 © 6"	
	8	12	10	#5 0 6"	



GRATING BASIN REINFORCEMENT

27943

DATE

BY

R.C.E.

APPROVED:

DATE ______

APPROVED: TOWN, ENGINEER

REVISION

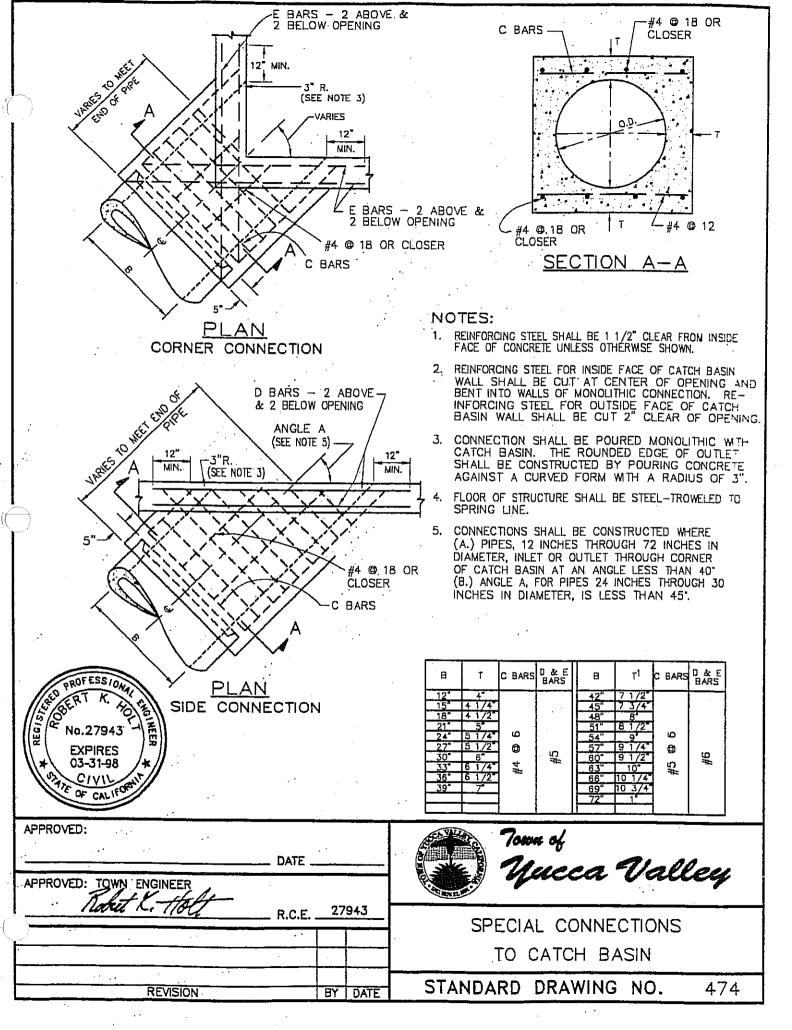


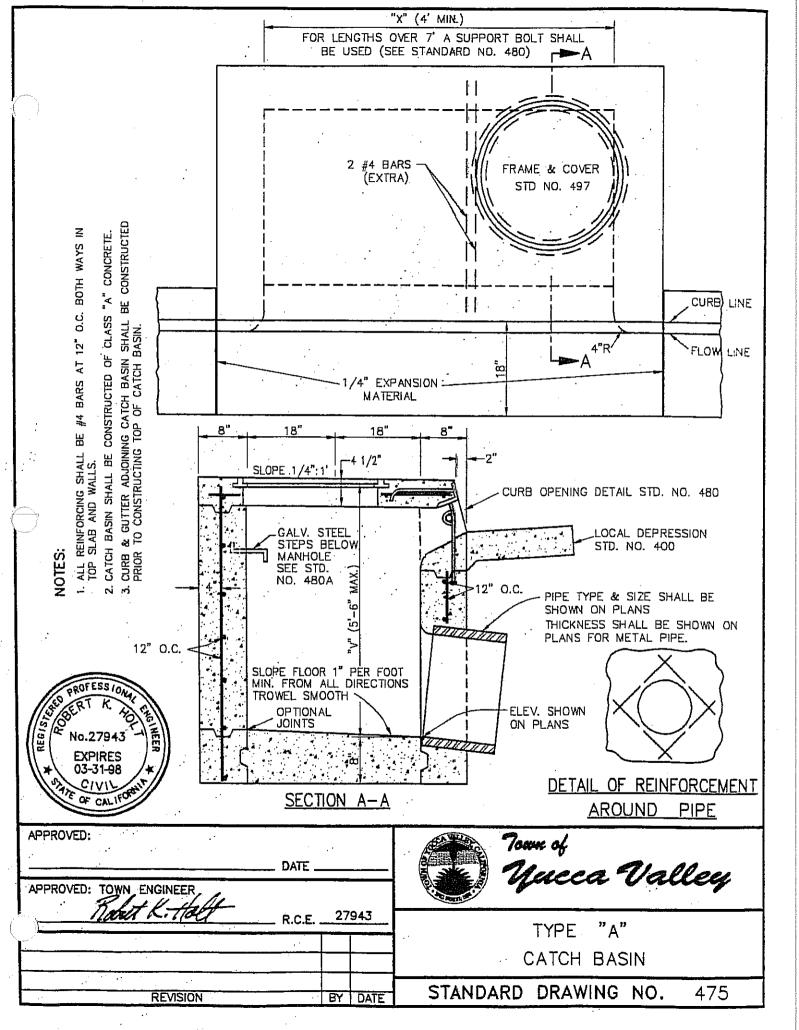
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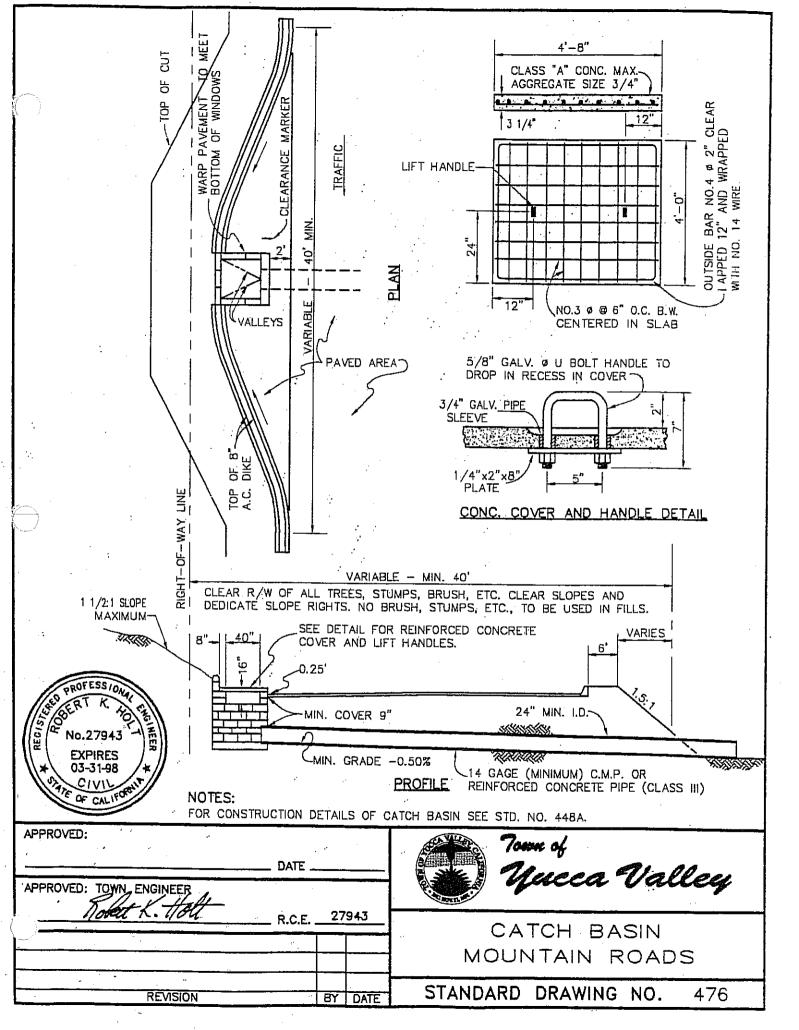
CATCH BASIN REINFORCEMENT

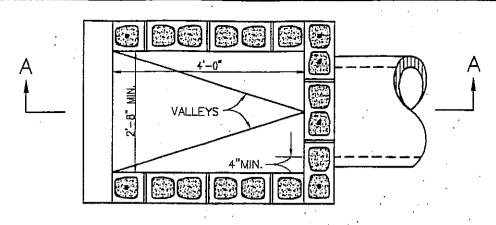
STANDARD DRAWING NO.

473

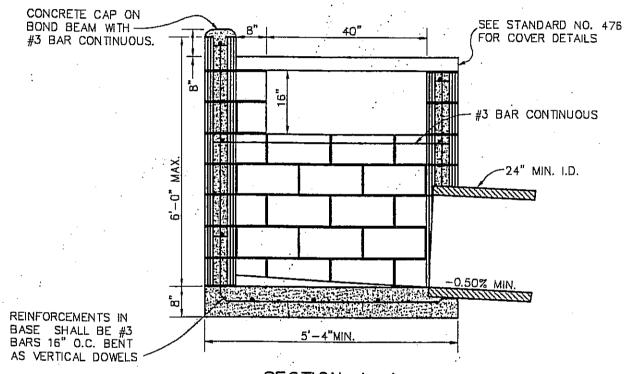








PLAN

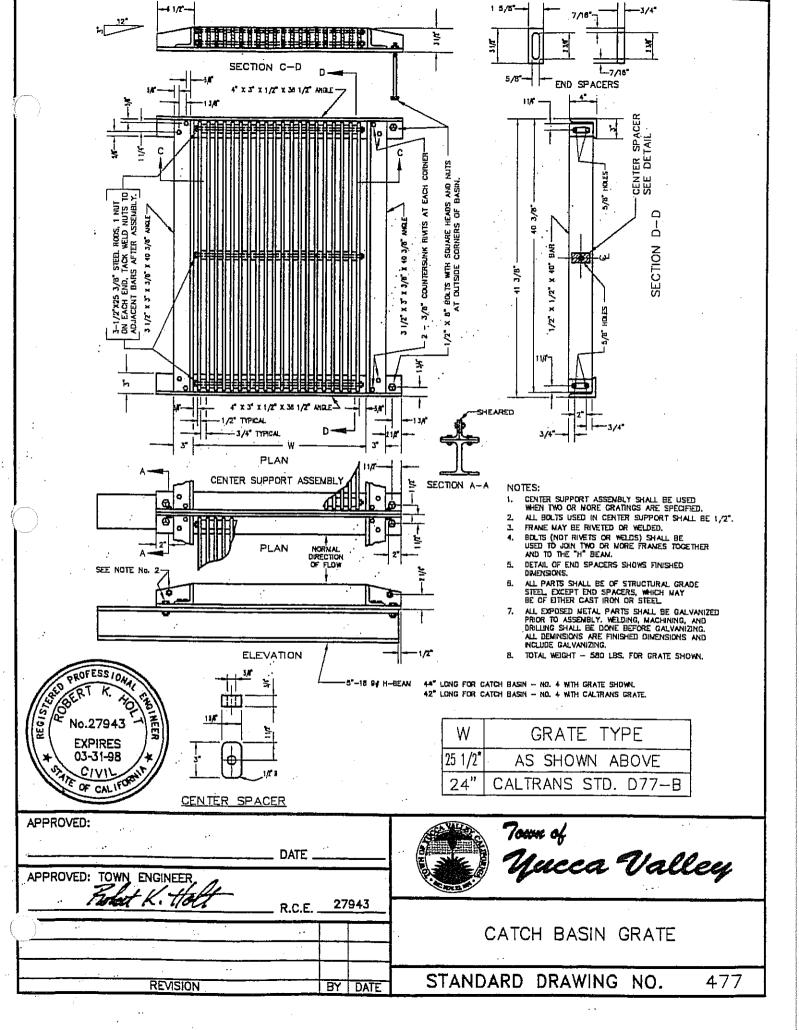


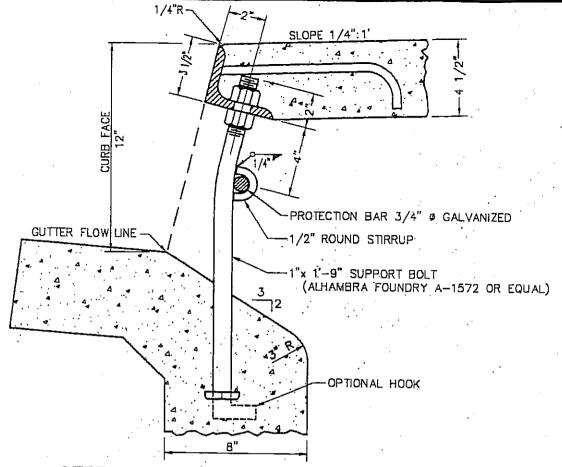
SECTION A-A



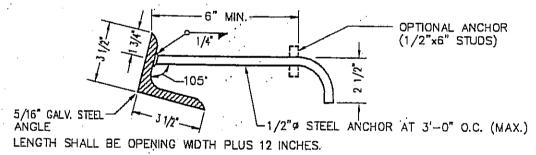
- 1. 8"x8"x16" CONC. BLOCK WITH #3 STEEL 16" O.C. VERT. AND 24" O.C. HORIZ.
- 2. FILL ALL BLOCKS WITH GROUT.
- 3. BASE OF CATCH BASIN SHALL BE CONSTRUCTED WITH CLASS 'B' CONCRETE.
- 4. HORIZONTAL STEEL SHALL BE PLACED IN BOND BEAM BLOCKS.

APPROVED: DATE	Town of Unicea Valley
APPROVED: TOWN ENGINEER R.C.E. 27943	CATCH BASIN
	MOUNTAIN ROADS
REVISION BY DAT	STANDARD DRAWING NO. 476A





STEEL ANGLE & SUPPORT BOLT DETAIL

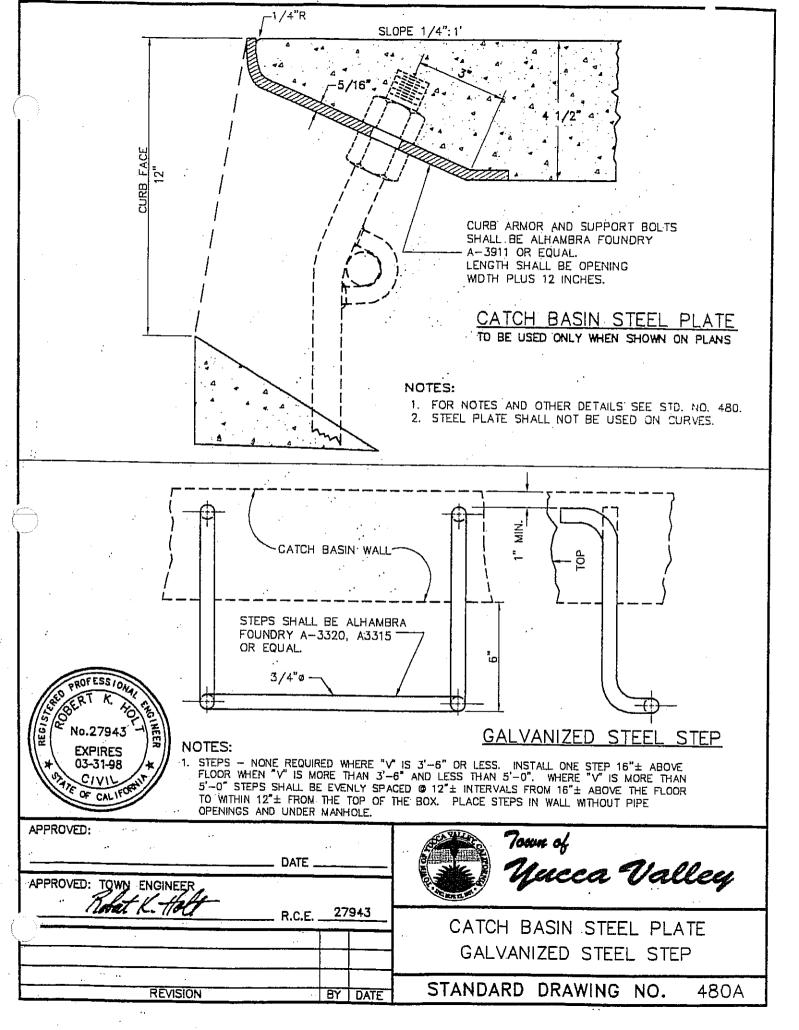


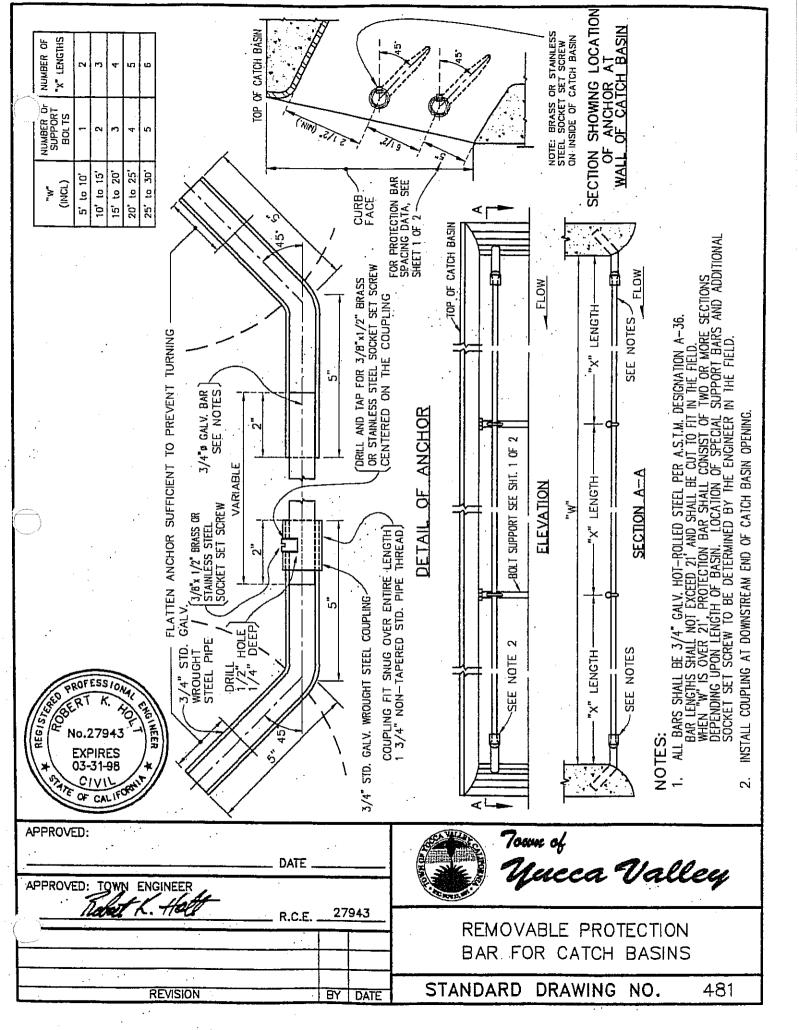


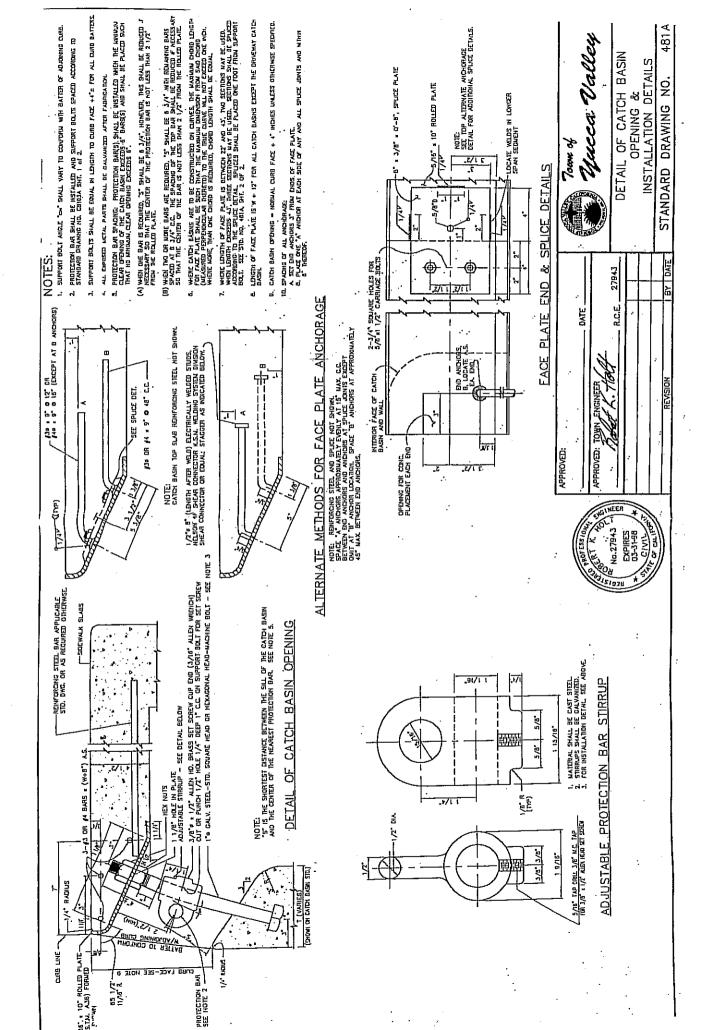


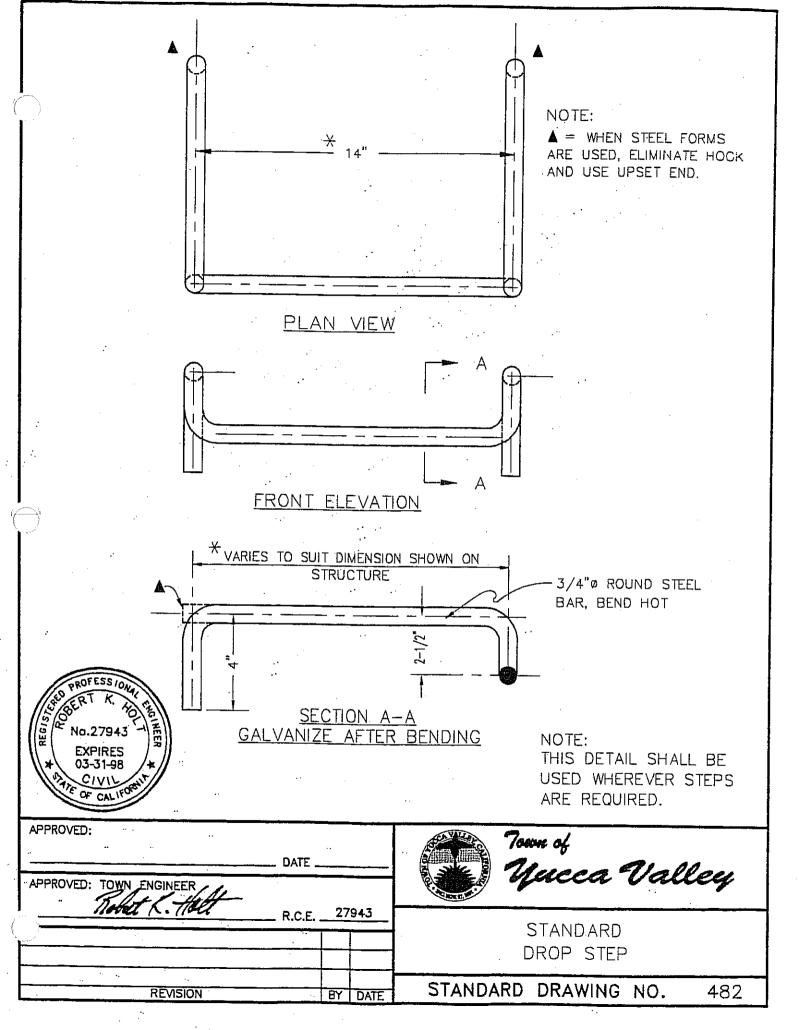
- A PLAIN ROUND GALVANIZED STEEL PROTECTION BAR 3/4" IN DIA. SHALL BE INSTALLED AND EMBEDDED 6" AT EACH END.
- 2. ALL EXPOSED METAL PARTS SHALL BE GALVANIZED. (EXCEPT FRAME AND COVER)
- 3. SUPPORT BOLTS SHALL BE UNIFORMLY SPACED BUT NOT TO EXCEED 7' ON CENTER.
- 4. STEEL ANGLE SHALL BE BENT TO MATCH CURB ALIGNMENT.

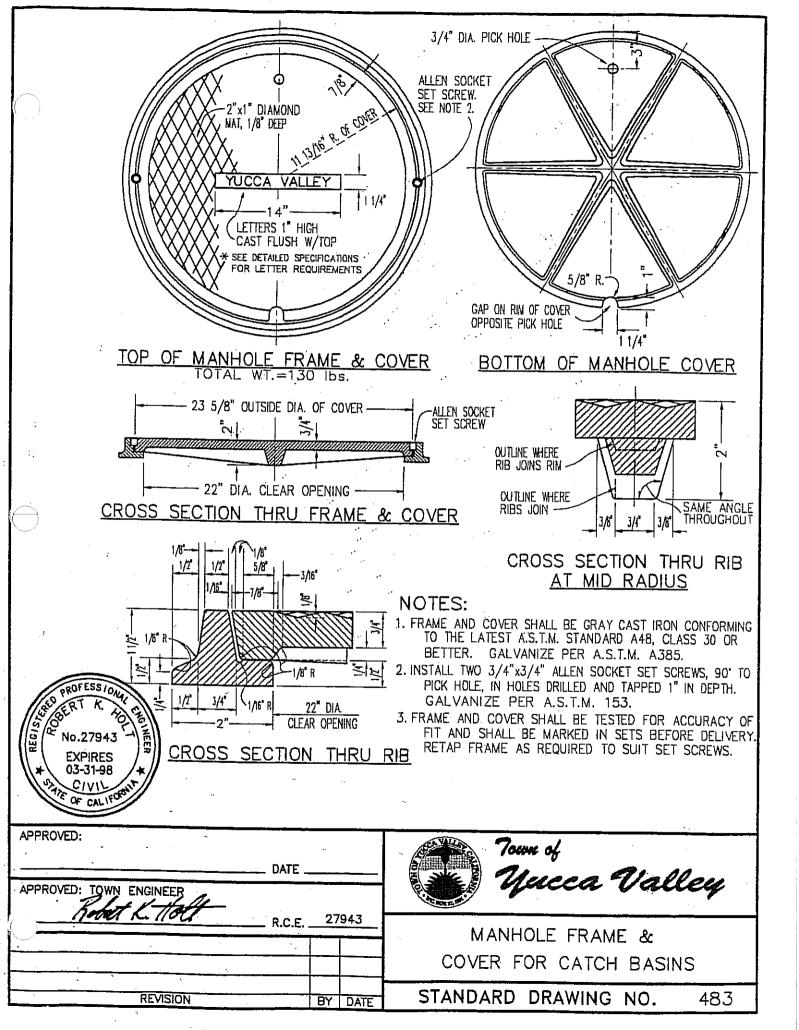
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R.C.	c.E. 27943	CATCH BASIN OPENING
REVISION	BY DATE	STANDARD DRAWING NO. 480

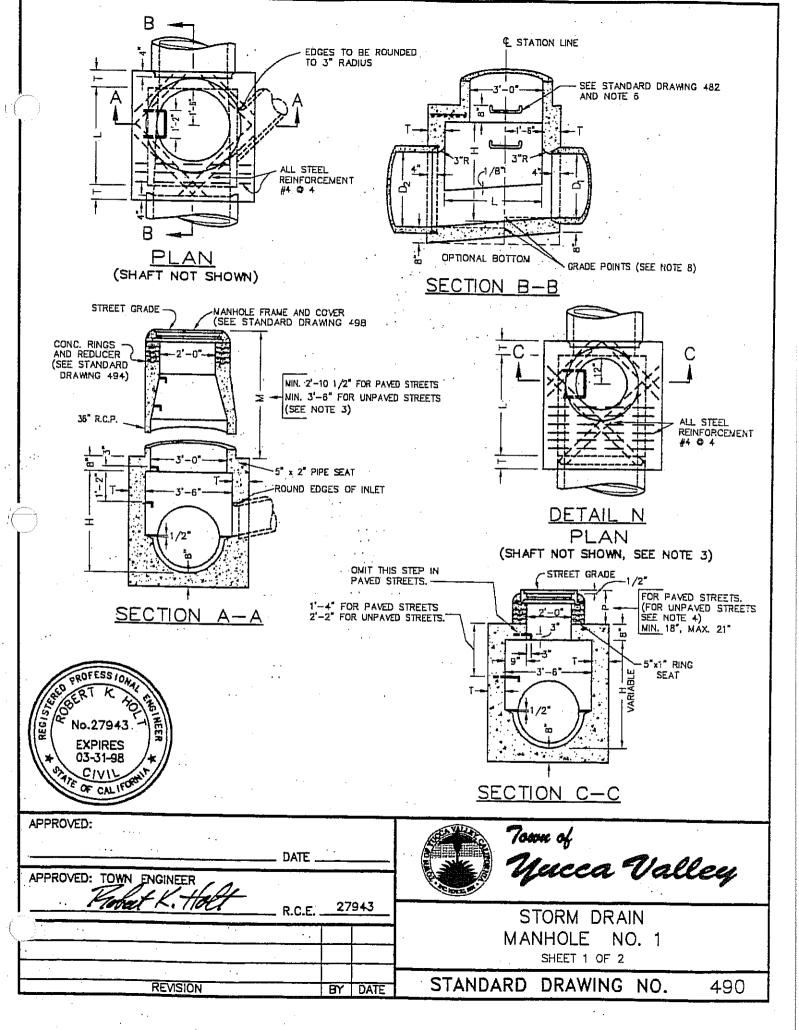








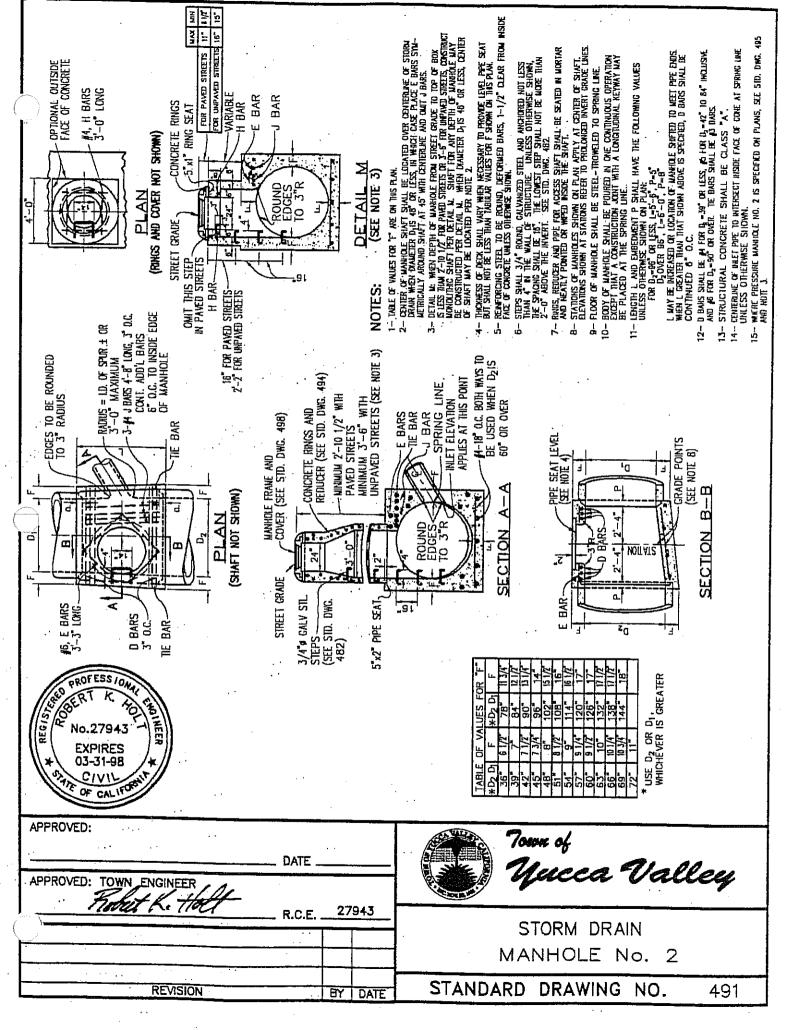


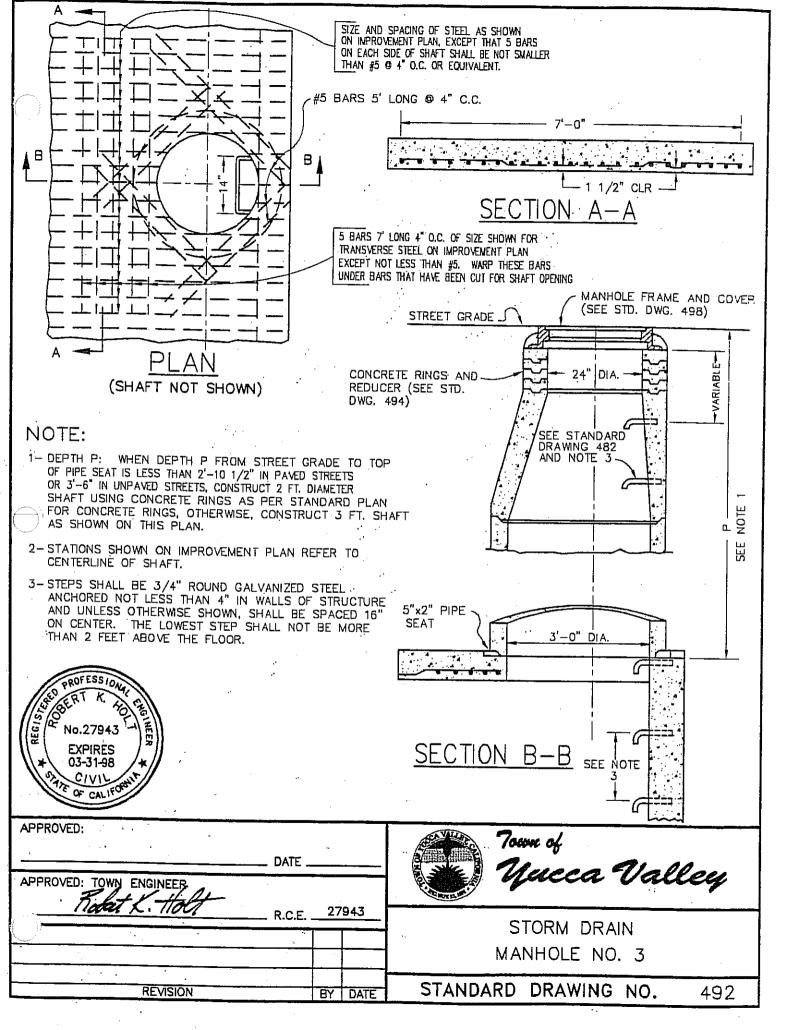


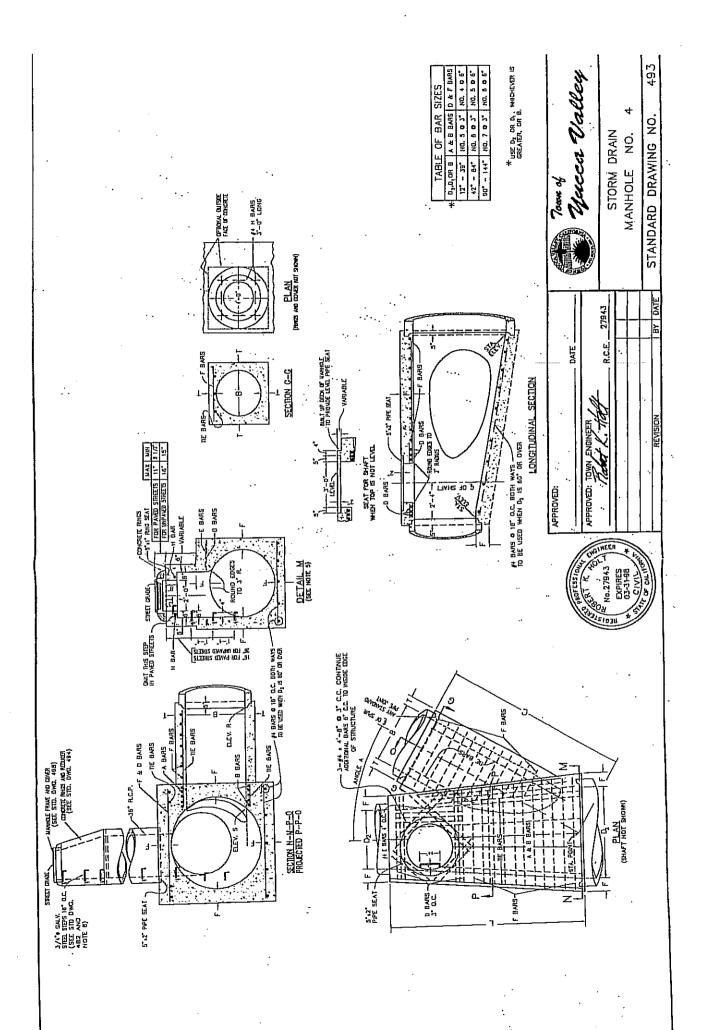
- 1. HEIGHT H SHALL BE NOT LESS THAN 4'-0" BUT MAY BE INCREASED AT OPTION OF CONTRACTOR PROVIDED THAT THE VALUE OF M SHALL NOT BE LESS THAN THE MINIMUM SPECIFIED AND THAT THE REDUCER SHALL BE USED. FOR H (IN SEC. C-C) SEE NOTE 4.
- 2. LENGTH L SHALL BE 4' UNLESS OTHERWISE SHOWN ON IMPROVEMENT PLAN.
 L MAY BE INCREASED OR LOCATION OF MANHOLE SHIFTED TO MEET
 PIPE ENDS AT THE OPTION OF THE CONTRACTOR, EXCEPT THAT ANY
 CHANGE IN LOCATION OF MANHOLE MUST BE APPROVED BY THE
 ENGINEER.
- 3. SHAFT SHALL BE CONSTRUCTED AS PER SEC. C-C AND DETAIL N WHEN DEPTH M FROM STREET GRADE TO TOP OF BOX IS LESS THAN 2'-10 1/2" FOR PAVED STREETS OR 3'-6" FOR UNPAVED STREETS.
- 4. DEPTH P MAY BE REDUCED TO AN ABSOLUTE LIMIT OF 6 INCHES WHEN LARGER VALUES OF P WOULD REDUCE H (IN SEC. C-C) TO BE 3'-6" OR LESS.
- 5. T SHALL BE 8" FOR VALUES OF H UP TO AND INCLUDING 8 FEET.
 T SHALL BE 10" FOR VALUES OF H OVER 8 FEET.
- 6. STEPS SHALL BE 3/4" ROUND, GALVANIZED STEEL AND ANCHORED NOT LESS THAN 4" IN THE WALLS OF STRUCTURES. UNLESS OTHER—WSE SHOWN, STEPS SHALL BE SPACED 16" ON CENTER. THE LOWEST STEP SHALL BE NOT MORE THAN 2 FT. ABOVE THE INVERT.
- 7. REINFORCING STEEL SHALL BE NO. 4 AND 1-1/2" CLEAR FROM INSIDE FACE OF CONCRETE.
- 8. STATIONS REFER TO PLAN AND PROFILE SHEETS. ELEVATIONS AT Q AND PROLONGED INVERT GRADE LINE. SEE NOTE 2 FOR SHIFTING LOCATION.
- RINGS, REDUCER, AND PIPE FOR ACCESS SHAFT SHALL BE SEATED IN CEMENT MORTAR AND NEATLY POINTED OR WIPED INSIDE SHAFT.
- 10. FLOOR OF MANHOLE SHALL BE STEEL-TROWELED.
- 11. CONCRETE SHALL BE CLASS "A".



PPROVED: DATE DATE			7000 of Uucca Valley		
PPROVED: TOWN ENGINEER	R.C.E.	27	7943	. STORM DRAIN	
				MANHOLE NO. 1 SHEET 2 OF 2	
REVISION		BY.	DATE	STANDARD DRAWING NO. 490A	







NOTES

- 1 VALUES FOR A, B, C, D₁, D₂, ELEV. R AND ELEV. S ARE SHOWN ON THE IMPROVEMENT PLANS. TABLE OF VALUES FOR F AND T HEREON.
- 2— LATERALS: IF LATERALS ENTER ON BOTH SIDES OF WAYHOLE, ACCESS SHAFT SHALL BE LOCATED ON SIDE RECEIVING THE SWALLER LATERAL.
- 3— CENTER OF MANHOLE SHAFT SHALL BE LOCATED OVER CENTERLINE OF MAIN STORM DRAIN WHEN D₁ IS 48" OR LESS, IN WHICH CASE PLACE 8 E BARS SYMMETRICALLY ARXIND SHAFT AT 45" WITH CENTERLINE.
- 4— LENGTH L MAY BE INCREASED AT OPTION OF CONTRACTOR TO NEET PIPE ENDS, BUT ANY CHANGE IN LOCATION OF SPUR MUST BE APPROVED BY THE ENGINEER.
- 5— DETAIL N: WHEN DEPTH OF MANHOLE FROM STREET GRADE TO TOP OF BOX IS LESS THAM 2'-10 1/2" FOR PAVED STREETS OR 3'-5"
 FOR UNPAVED STREETS, CONSTRUCT MONOLITHIC SHAFT PER DETAIL N.
 THE CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING SHAFT AS PER DETAIL N FOR ANY DEPTH OF MANHOLE.
 WHEN DIAMETER D., IS 48" OR LESS, CENTER OF SHAFT SHALL BE LOCATED PER NOTE 3.
- 6— REINFORCING STEEL SHALL BE ROUND, DEFORMED, STRAIGHT BARS, 1 1/2" CLEAR FROM INSIDE FACE UNLESS OTHERWISE SHOWN. TIE BARS SHALL BE NO. 4 AND SPACED 18" ON CENTERS OR CLOSER.
- 7— CONCRETE SHALL BE CLASS "A".
- 8— STEPS SHALL BE 3/4" GALVANIZED STEEL AND ANCHORED NOT LESS THAN 4" IN WALLS OF STRUCTURE. UNLESS OTHERWISE SHOWN THE SPACING SHALL BE 16" ON CENTER. THE LOWEST STEP SHALL BE NOT NORE THAN 2 FT. ARDVE THE INVEST.
- 9— RINGS, REDUCERS, AND PIPE FOR ACCESS SHAFT SHALL BE SEATED IN CEMENT MORTAR AND NEATLY POINTED OR WIPED INSIDE SHAFT.
- 10— FLOOR OF MANHOLE SHALL BE STEEL—TROWELED TO SPRING LINE.
- 11 BODY OF MANHOLE, INCLUDING SPUR, SHALL BE POURED IN ONE CONTINUOUS CPERATION, EXCEPT THAT THE CONTRACTOR SHALL HAVE THE OPTION OF PLACING AT THE SPRING LINE A CONSTRUCTION JOINT WITH LONGITUDINAL KEYWAY.

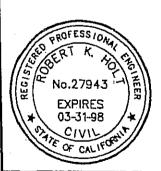
*USE D, OR D2, WHICHEVER ISGREATER, OR B.

X X

IF D_2 , D_1 , or B falls between tabulated values then use the next highest value to determine F or T.

	-	·
XX TA	BLE OF V	ALUES FO
IX D ₁ ,D ₂ I	F	
l 12" l	4-	Ţ
l 15" l	4 1/4" {	
18"	4 1/2"	
18" 21"		. [
24"	5 1/4"	· E
24" 27"	5 1/2"	. [
30" 33" 36"	i 6" i	[.
33"	6 1/4"	
36"	6 1/2" 7	\ <u>\</u>
39"	7*	
39" 42" 45" 48" 51" 54" 57" 60" 63" 66"	7 1/2"	
45"	7 374"	[
48"	8"	
51"	8" . 8 1/2" 9"	
54"	9"	
57"	9 1/4" 9 1/2" 10" 10 1/4" 10 3/4"	l [
60"	9 1/2"	[
63"	10"	
66"	10 1/4	l l
69"	10 3/4	1
72"	i 11"	!
78"	11 3/4"	i ·
El4"	11 3/4" 12 1/2" 13 1/4"	1
78" 84" 90"	13 1/4" 14" 15 1/2"	!
96"	14"	1
102*		1
108"	16"	
114"	16 1/2"	1
120	17"]
126	17"	
132*	17" 17 1/2"	
138"	17 1/2"	1
114" 120" 126" 132" 138" 144"	18"	
		=

R F AND	T		
В	T	В	T
_12"	4*	78*	11 3/4"
15"	4 1/4"	84"	12 1/2"
12" 15" 18" 21" 24" 27"	4 1/2"	84" 90"	12 1/2" 13 1/4"
21"	5*	96"	14"
24"	5 1/4	102" 108"	l 15 1/2° l
.27"	5 1/2	108"	16" 16 1/2"
30"	6	114" 120" 126"	16 1/2"
33	0 1/4	120"	17" 17"
36"	6 1/2"	126*	17"
39"	7"	132"	17 1/2"
30" 33" 36" 39" 42" 45"	7 1/2" 7 3/4"	132" 138"	17 1/2"
45"	7 3/4	144"	18"
48"	8"		'
48" 51" 54" 57"	8 1/2* 9*]	
54	9"	Ì	
57"	9 1/4"]	
60"	9 1/2]	
63"	10"		
60" 63" 66" 69" 72"	10 1/4"	ļ	
69"	10 3/4"]	
72"	11"		



APPROVED:

	102	. I	
	108"	1	
	114"		
	120		
	126		
	1.32		
	138" 144"		
	144"		Γ
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BY DATE

70000 of Yucca Valley

APPROVED: TOWN ENGINEER

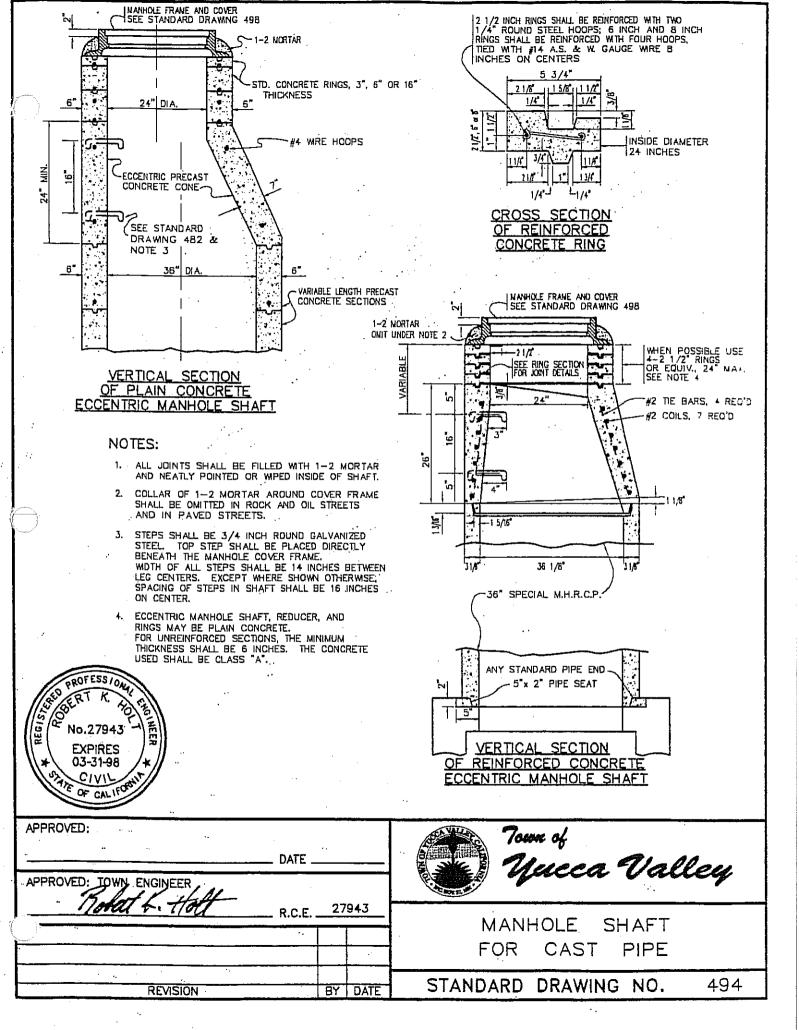
R.C.E. 27943

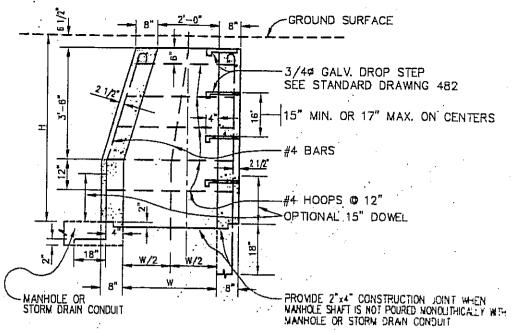
REVISION

STORM DRAIN
MANHOLE NO. 4

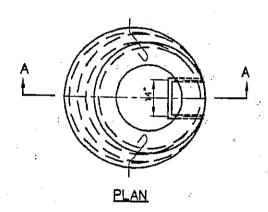
STANDARD DRAWING NO.

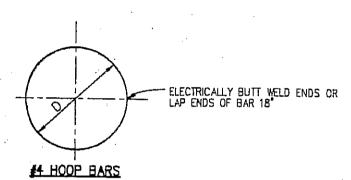
493A





SECTION A-A





WHERE H IS NORE THAN 4'-0", D=3'-1 3/4" FOR TOPMOST HOOP IN SHAFT; EACH-LOWER HOOP IN SUCCESSION INCREASES 3 1/2" IN DIAMETER TO A MAXIMUM OF 4'-0" IN THE VERTICAL PORTION OF THE SHAFT.

NOTES:



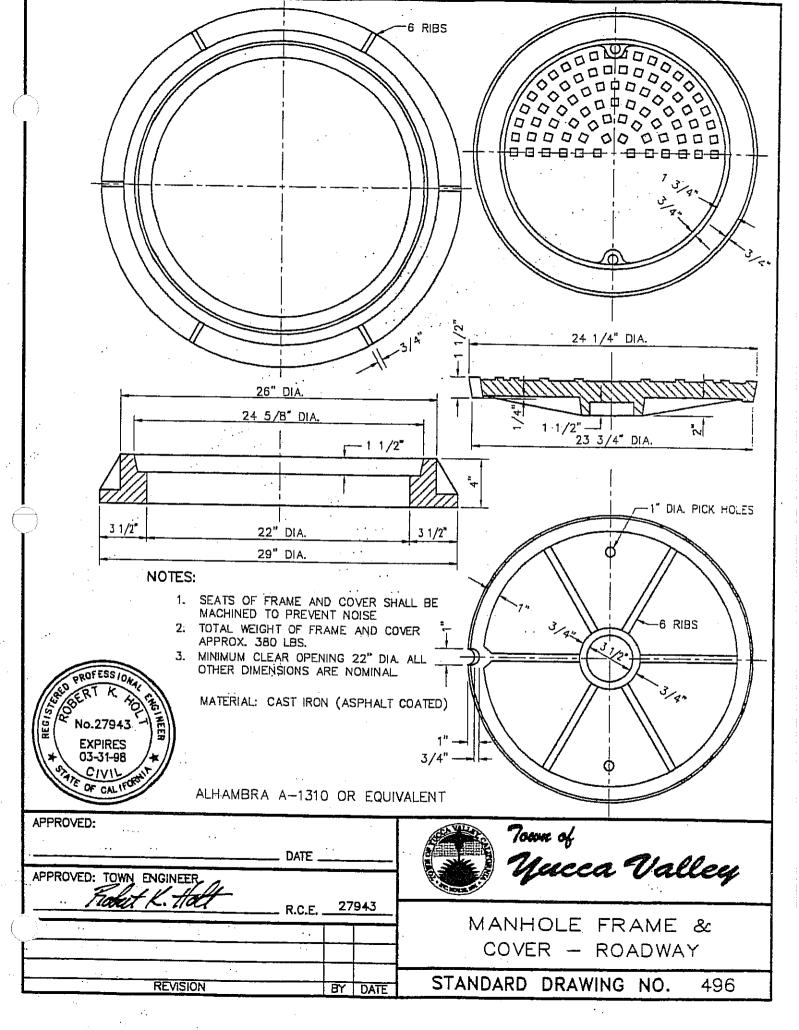
- IF "H" IS LESS THAN 1'-6", W=2'-0"

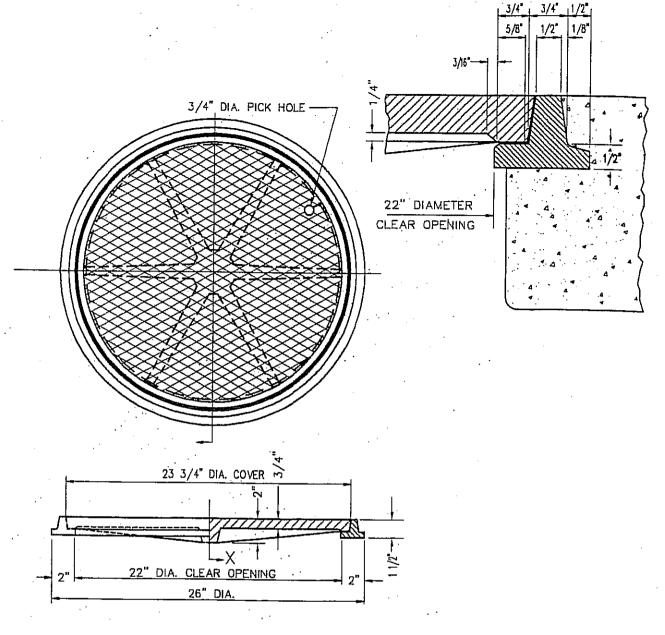
 IF "H" IS BETWEEN 1'-6" AND 2'-6", W=2'-6"

 IF "H" IS 2'-6" OR MORE, W=3'-0"

 IF "H" IS MORE THAN 4'-0 1/2" PRINC WALLS APPEA
 - IF "H" IS MORE THAN 4'-0 1/2", BRING WALLS VERTICALLY TO 4'-0 1/2" BELOW SURFACE AND TAPER FROM 3'-0" TO 2'-0" AS SHOWN.
- 2. THIS STRUCTURE SHALL BE USED WITH STANDARD PRESSURE MANHOLE FRAME AND COVER. SEE STD. DWG. 499. IT MAY BE USED FOR HYDROSTATIC HEADS UP TO 25' ABOVE THE STEEL PLATE.
- 3. CONCRETE SHALL BE CLASS "A".

APPROVED: DATE APPROVED: TOWN ENGINEER	700m of Uucca Valley
R.C.E. 27943	STANDARD PRESSURE MANHOLE SHAFT
REVISION BY DATE	STANDARD DRAWING NO. 495





MATERIAL: CAST IRON (ASPHALT COATED OR GALVANIZED)

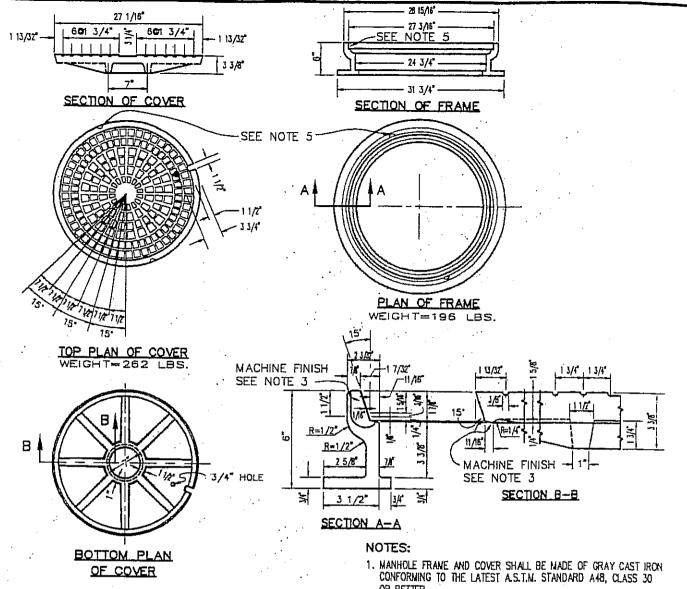


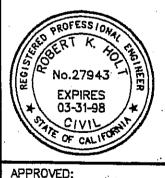
NOTES:

- 1. SEATS OF FRAME AND COVER SHALL BE MACHINED TO PREVENT NOISE.
- 2. TOTAL WEIGHT OF FRAME AND COVER APPROX. 130 LBS.
- 3. MINIMUM CLEAR OPENING 22" DIAMETER. ALL OTHER DIMENSIONS ARE NOMINAL.

ALHAMBRA A-1530 OR EQUIVALENT

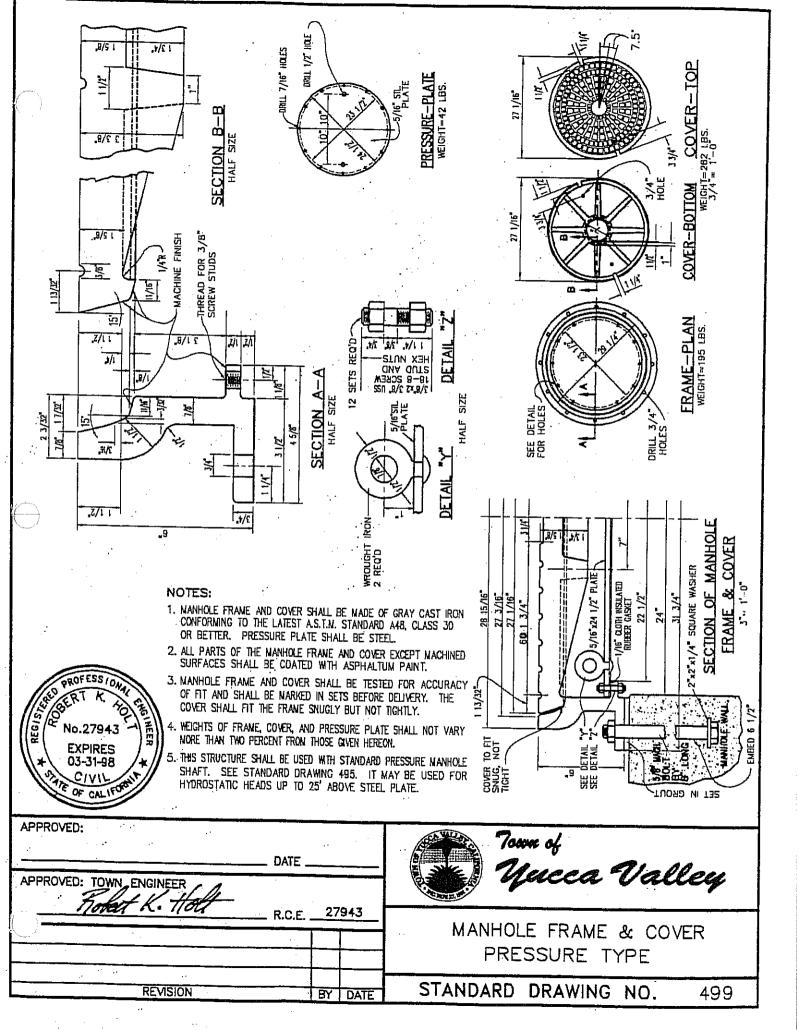
APPROVED: APPROVED: TOWN ENGINEER	DATE	7000 of Yucca Valley
	R.C.E. 27943	MANHOLE FRAME & COVER — PARKWAY
REVISION	BY DATE	STANDARD DRAWING NO. 497





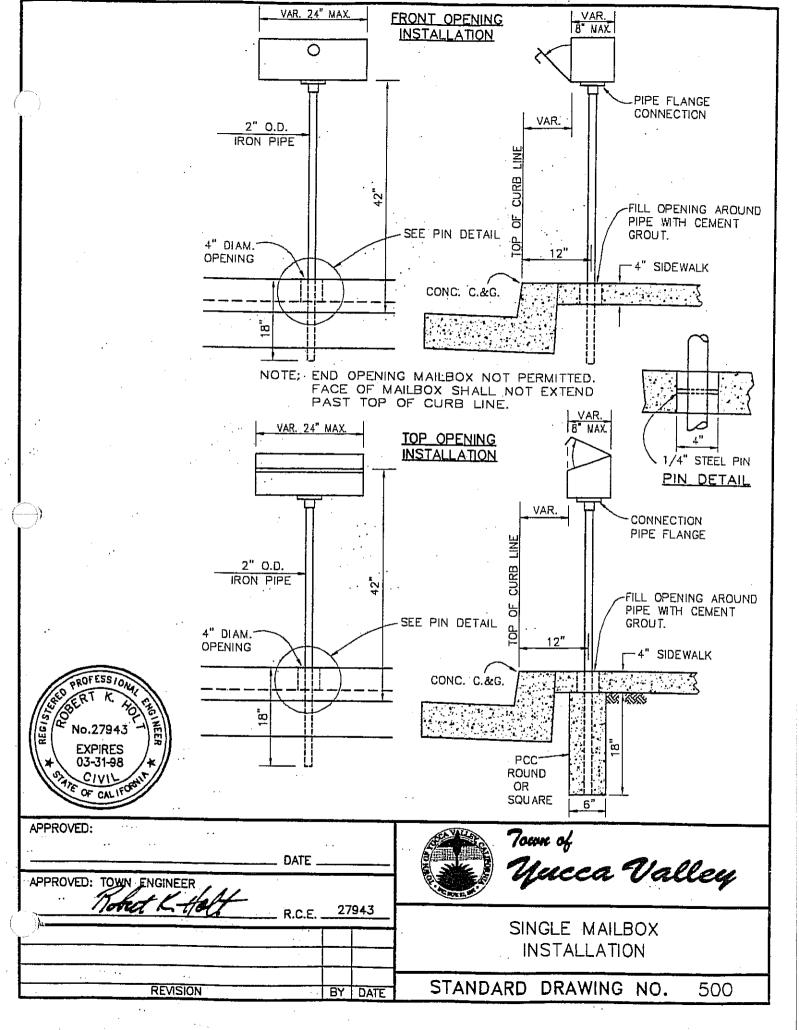
- 2. ALL PARTS OF THE MANHOLE FRAME AND COVER EXCEPT MACHINED SURFACES SHALL BE COATED WITH ASPHALTUM PAINT.
- 3. NANHOLE FRAME AND COVER SHALL BE TESTED FOR ACCURACY OF FIT AND SHALL BE MARKED IN SETS BEFORE DELIVERY. THE COVER SHALL FIT THE FRAME SNUGLY BUT NOT TIGHTLY.
- 4. THE WEIGHTS OF THE FRANE AND COVER SHALL NOT YARY MORE THAN TWO PERCENT FROM THOSE GIVEN HEREON.
- 5. COVERS FOR MANHOLES LOCATED IN RIGHT OF WAY, EASEMENTS, ALLEYS, PARKWAYS, AND ALL OTHER PLACES EXCEPT PAVED STREETS SHALL BE PROVIDED WITH ALLEN SOCKET SET SCREW LOCKING DEVICES. THE CONTRACTOR SHALL DRILL AND TAP TWO HOLES TO A DEPTH OF 1" AT 90' TO PICK HOLE AND INSTALL 3/4"x3/4" ALLEN SOCKET SET SCREWS THEREIN.

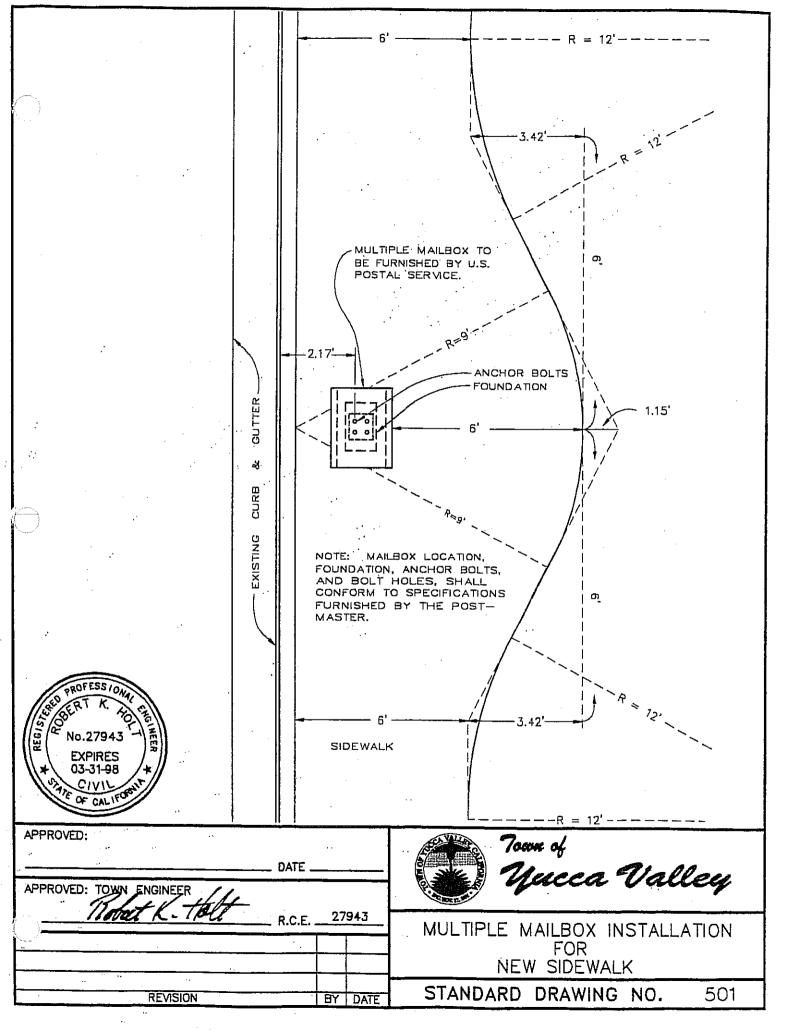
APPROVED:			70mm of Yucca Valley
APPROVED: TOWN ENGINEER Flokest K. Hold	R.C.E.	27943	queen vacey
			MANHOLE FRAME & COVER NON-ROCKING
REVISION	· · · · · · · · · · · · · · · · · · ·	BY DATE	STANDARD DRAWING NO. 498
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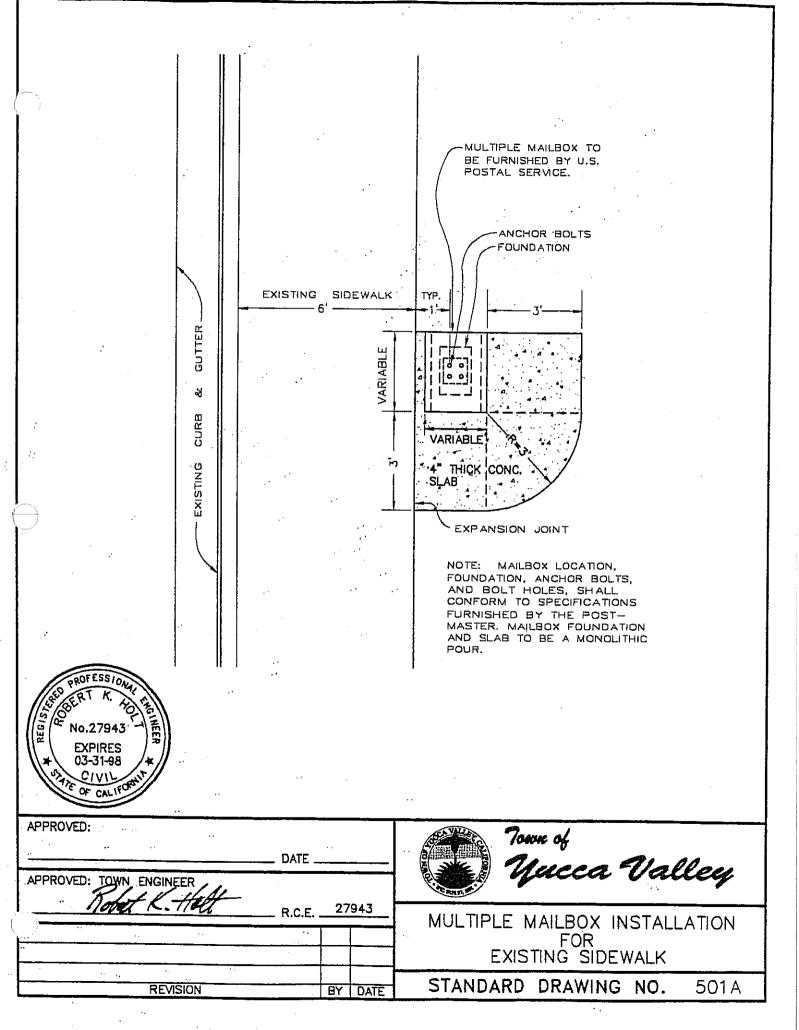


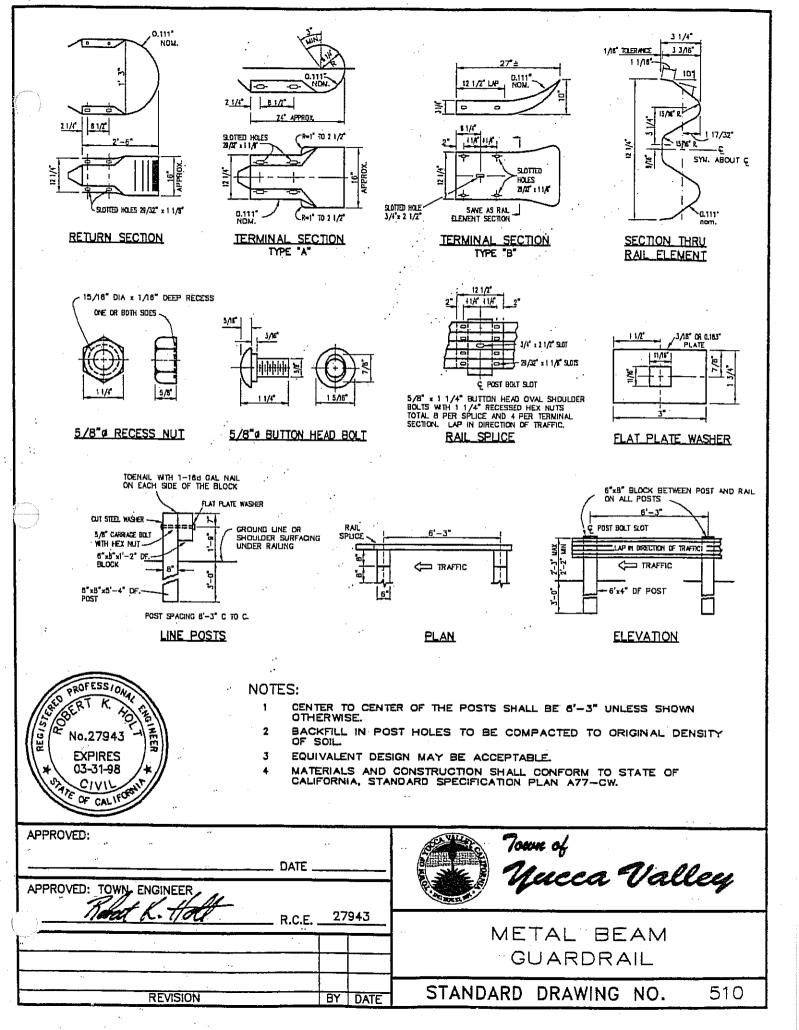
<u>Section 5 – Miscellaneous Details</u>

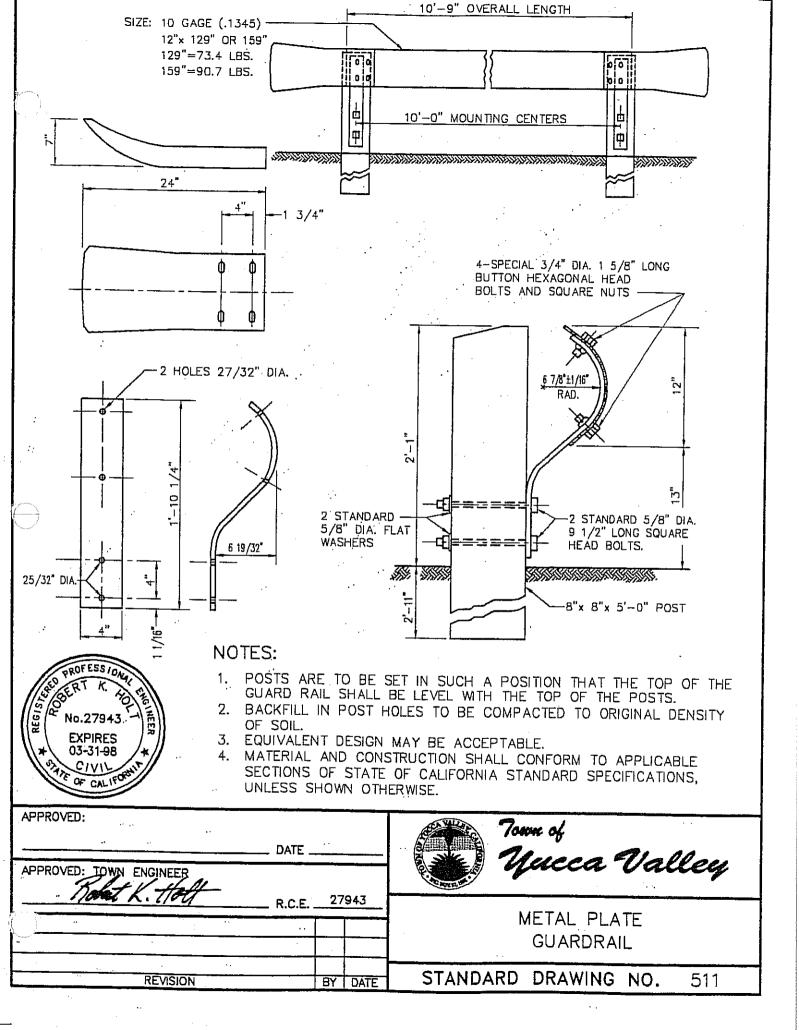
Drawing No.	<u>Description</u>
500	Single Mailbox Installation
501	Multiple Mailbox Installation for New Sidewalk
501A	Multiple Mailbox Installation for Existing Sidewalk
510	Metal Beam Guardrail
511	Metal Plate Guardrail
520	Traffic Safety Markers
521	Post with Reflector
522	End of Street Temporary Pavement
522A	Barricade Rural Area
523	Street Marker Post Installation
530	Standard Trash Enclosure
540	Non Retaining Concrete Blockwall
550	Pipe Swing Gate
M1	Copperweld Monument
M2	Sectional Monuments
M3	Centerline Ties

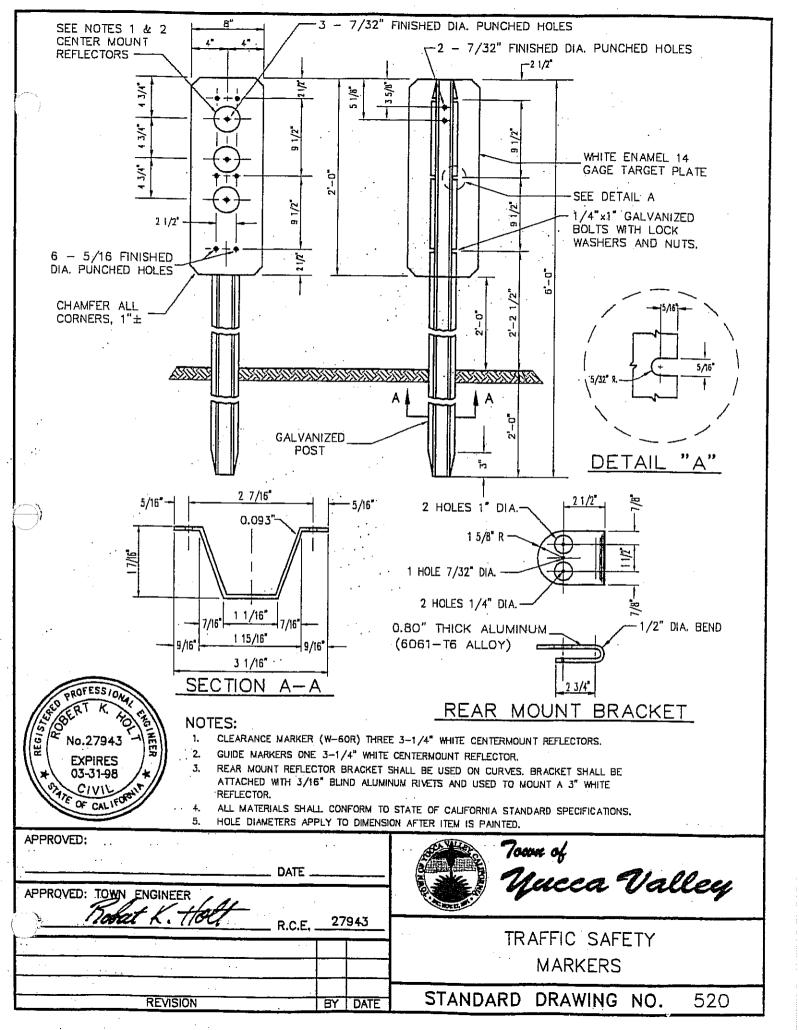


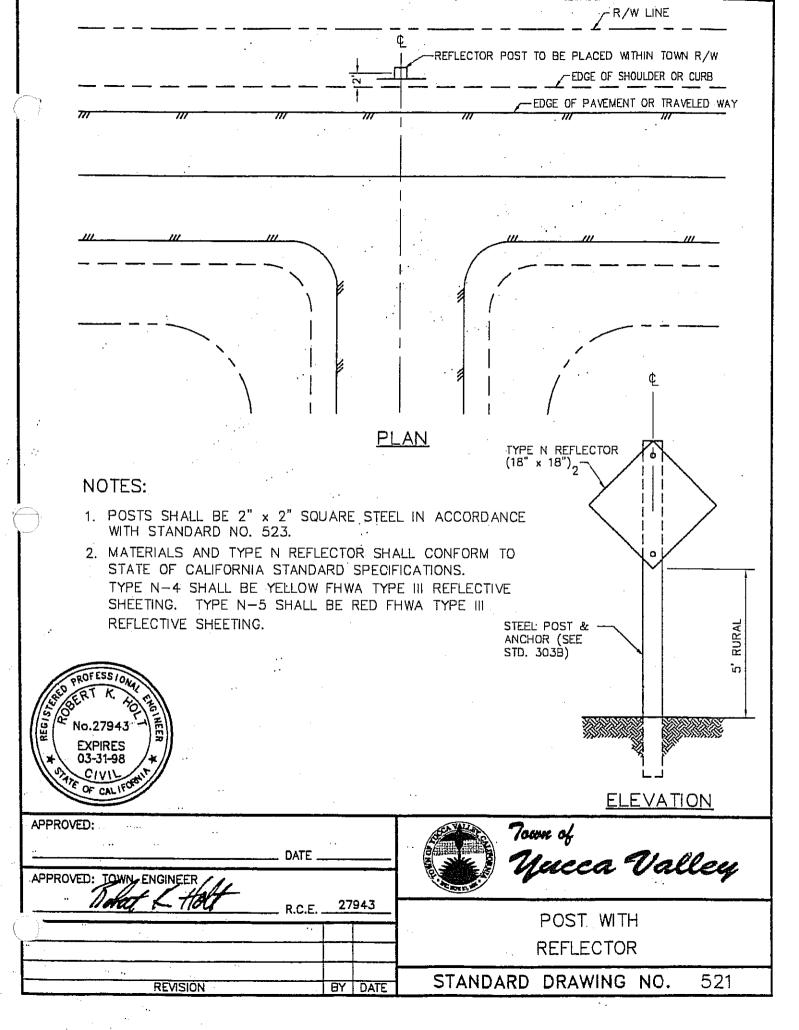


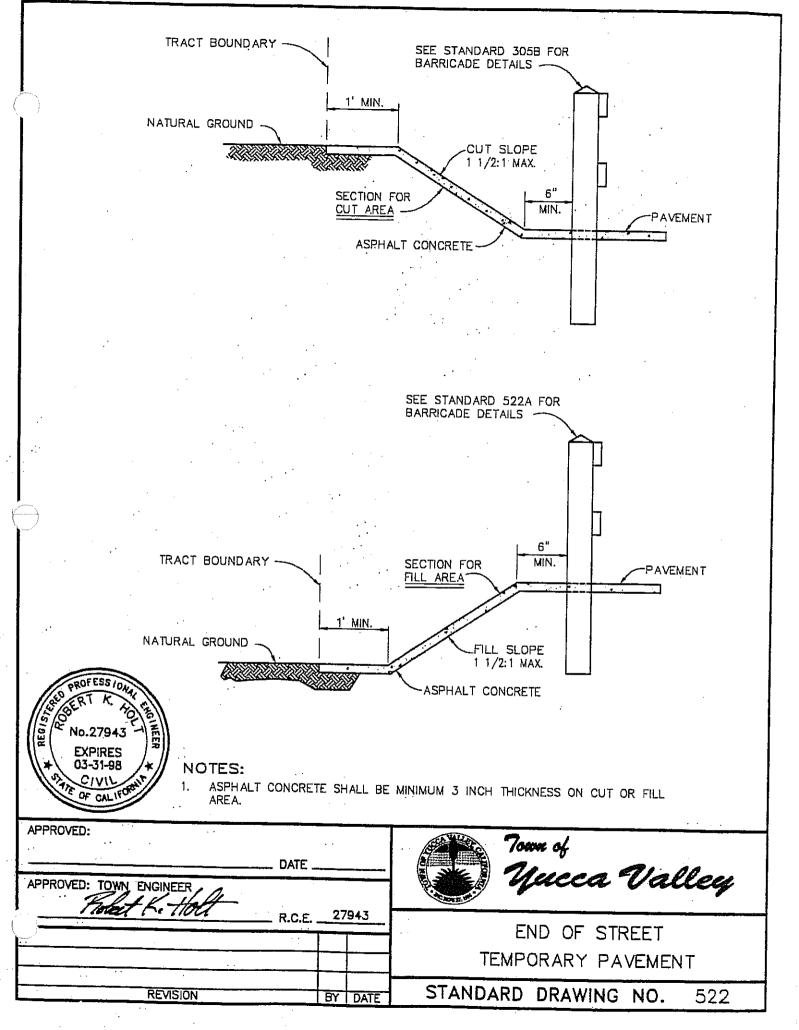


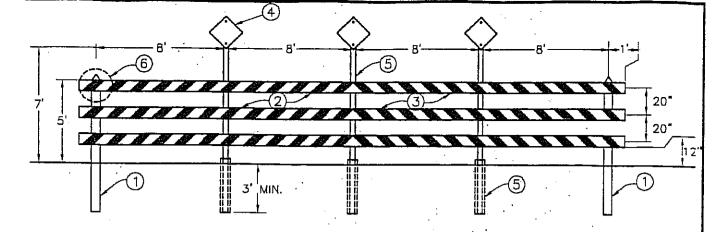


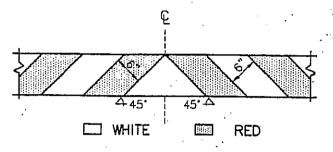












WDTH OF ROADWAY	NUMBER OF PANELS	NO. OF N2	TOTAL LENGTH OF RAILS
.20' ALLEY	2	1	18'
26'	3.	2	26'
40'	4	3	38'
46'	4	3	44'
.54'	5	4	52'
60'	7	4	5 8 '

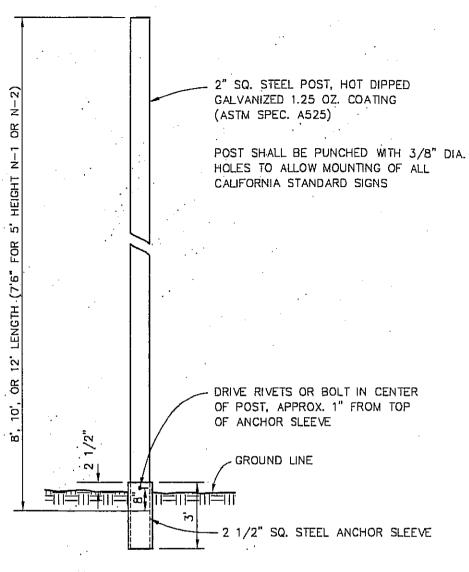
(3) REFLECTIVE TAPE DETAIL

NOTE: RAILS FACING IN TWO DIRECTIONS, NUMBER OF REFLECTORIZED RAILS SHOULD BE ON TWO FACES.

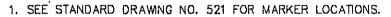
NOTES:

- (1) POST IS TO BE 6" x 6" x VARIES, TIMBER S.4S.
- 2 THREE (3) CROSS PANELS TO BE 2" x 8" x VARIES, TIMBER S.4S.
- 3 REFLECTIVE TAPE CONSISTS OF REFLECTIVE DIAMOND GRADE SHEETING WITH HIGH TACK PRESSURE SENSITIVE ADHESIVE, WHITE AND RED TAPE WITH 6" WIDTH (SEE DETAIL ABOVE).
- (4) OBJECT MARKER RED TYPE NZ SIGN REFLECTOR SHALL CONFORM TO STATE OF CALIFORNIA STANDARD SPECIFICATION AND TO FHWA TYPE IIIA OR VISUAL IMPACT PERFORMANCE (VIP) REFLECTIVE SHEETING. USE A MINIMUM OF TWO (2) SIGNS (SIMILAR TO STD. NO. 521).
- (5) 2" SQUARE STEEL POST AND 2 1/2" SQUARE ANCHOR SLEEVE (SEE STD. NO. 523).
- (6) USE 3/8" DIAMETER, 4 1/4" LONG LAG BOLTS (GALVANIZED) FOR FASTENING ITEM 2 TO ITEM 1 (MINIMUM 4 BOLTS PER CONNECTION).
- 7 RAILS FACING TRAFFIC TO BE REFLECTORIZED.
- 8 ALL TIMBER TO BE S.4S. WEATHER RESISTANT.
- 9 ALL DIMENSIONS ARE NOMINAL LUMBER DIMENSIONS.

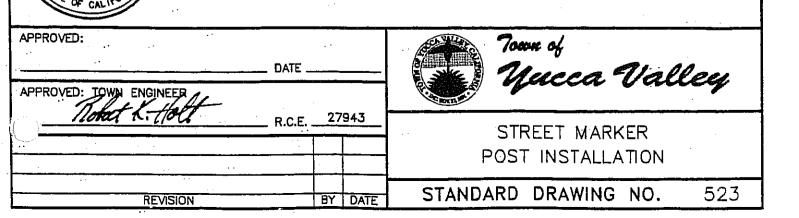
APPROVED: TOWN, ENGINEER	DATE _		7000N of Uucca Vall		
Robert L. Holf R.C.E.		2794.	BARRICADE RURAL AREA		
REVISION		BY DA	STANDARD DRAWING NO.	522A	

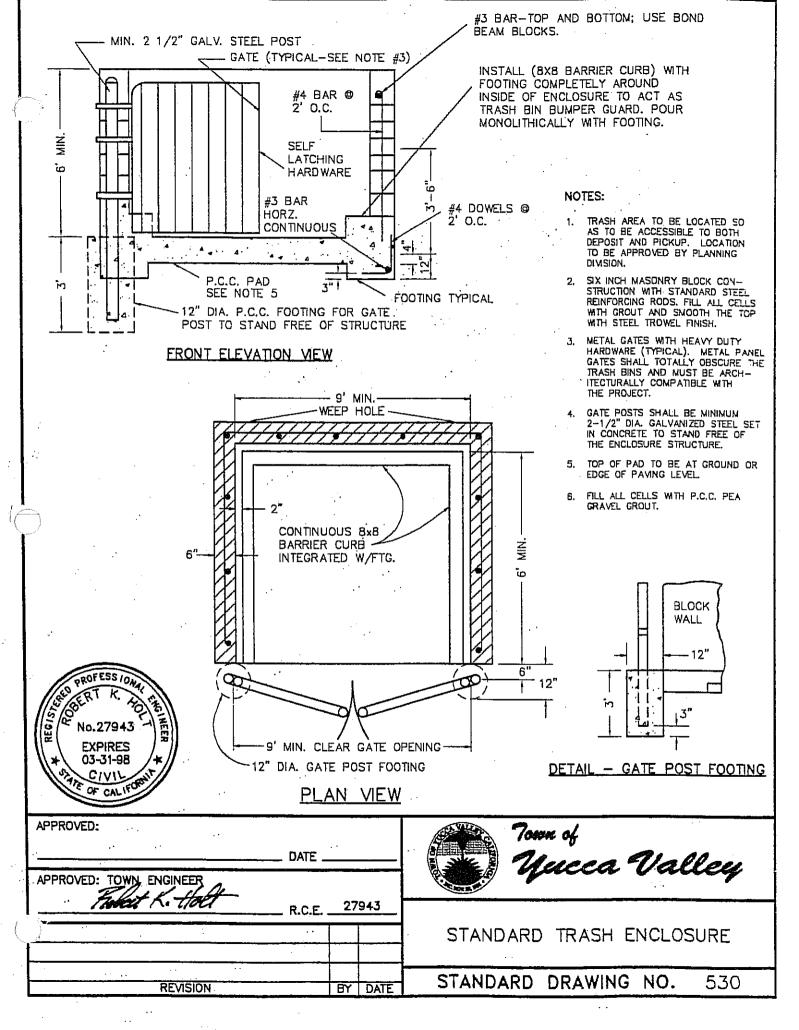


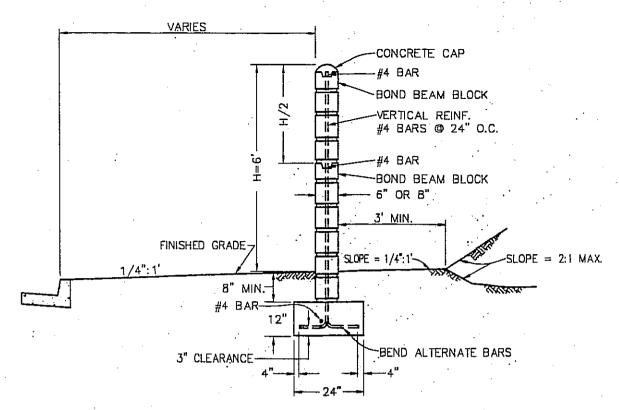




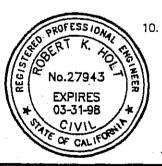
- 2. POST SHALL BE 2" SQ. STEEL AS SHOWN AND STATED.
- 3. ANCHOR SLEEVE SHALL BE 2 1/2" SQ. STEEL HOT DIPPED GALVANIZED AFTER FABRICATION (ASTM SPEC. 1-123).



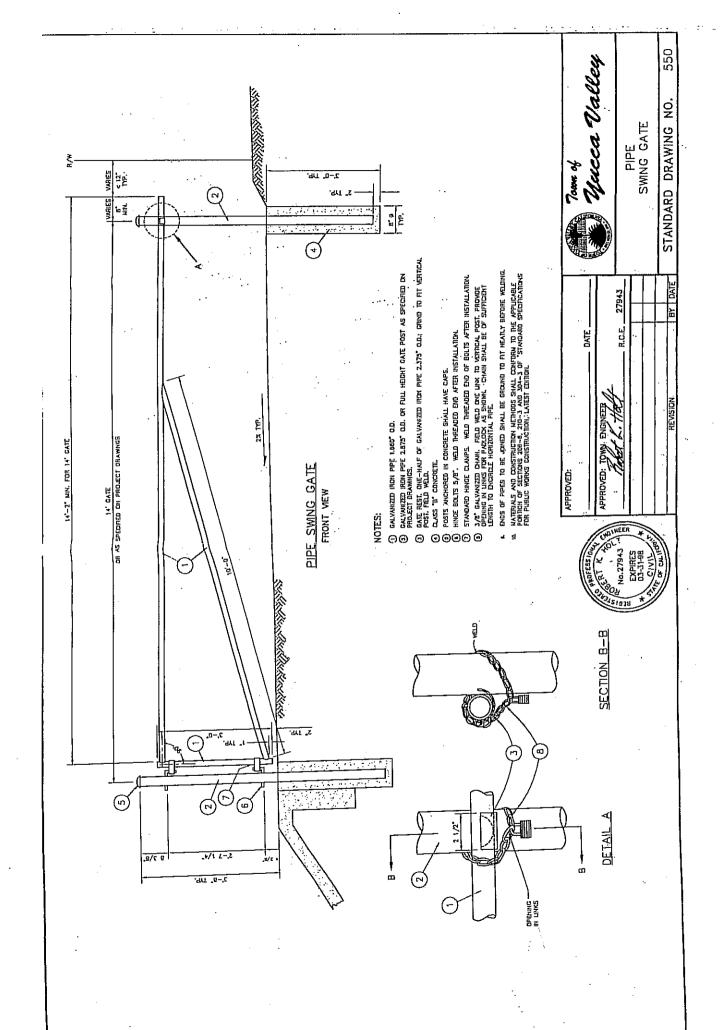


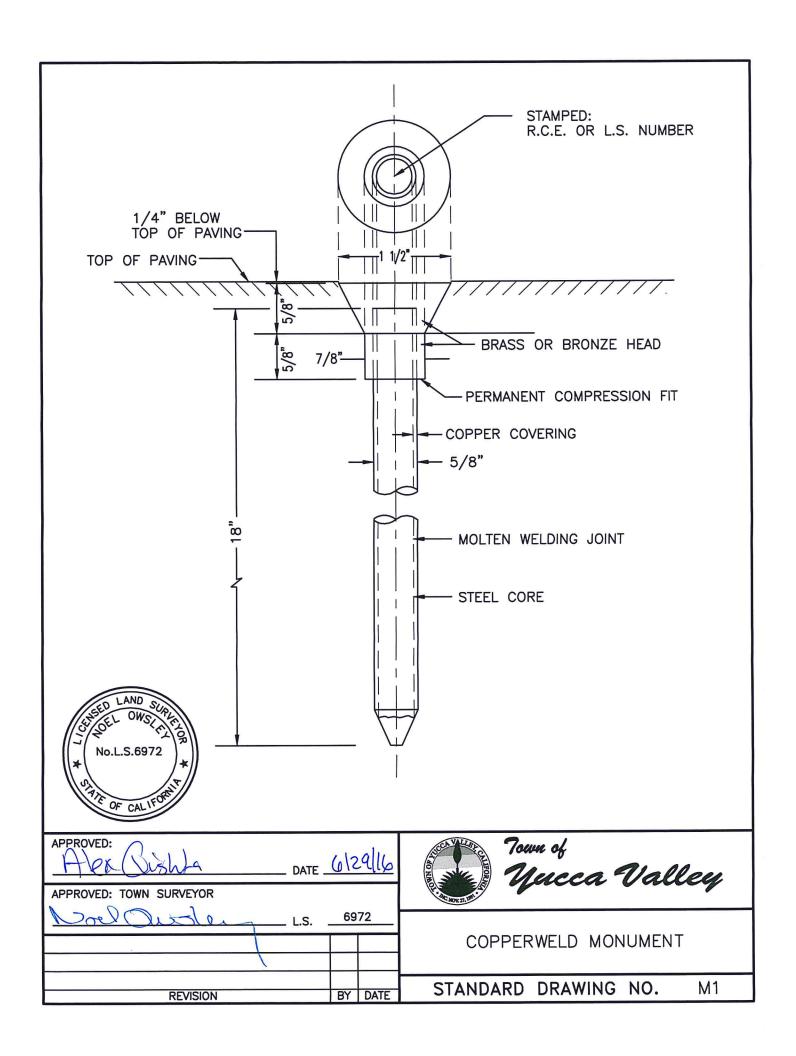


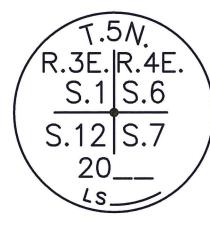
- 1. ALL VERTICAL CELLS CONTAINING REINFORCING STEEL SHALL BE FILLED WITH GROUT, IN ADDITION, WHERE 6" BLOCKS ARE USED ALL CELLS WITHOUT VERTICAL REINFORCING STEEL SHALL BE FILLED WITH GROUT TO TOP OF BOND BEAM AT MIDHEIGHT OF WALL.
- 2. THE BLOCK WALL COURSES AND FOOTINGS MAY BE BUILT PARALLEL WITH THE STREET GRADE (7% MAX:) OR STEPPED.
- 3. ALL WALLS SHALL BE PLUMB. ..
- 4. BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 90%.
- 5. FOOTING SHALL BE CLASS. B' CONCRETE.
- 6. CONCRETE BLOCK SHALL BE GRADE A UNITS, CONFORMING TO ASTM DESIGNATION NO. C90
- 7. REINFORCING STEEL, GROUT MORTAR, AND CLASS 'B' CONCRETE SHALL CONFORM TO THE STANDARD SPECIFICATIONS.
- 8. ELIMINATE MORTAR IN ALL VERTICAL JOINTS IN FIRST COURSE ABOVE FINISH GRADE.
- 9. 1/2" OPEN JOINTS EXTENDING THROUGH THE ENTIRE HEIGHT OF THE BLOCK WALL, SHALL BE SPACED AT A MAXIMUM OF 50'.
- 10. ELIMINATE MID-HEIGHT BOND BEAM IN WALLS WHERE H=4" OR LESS.

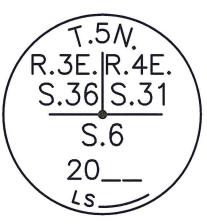


APPROVED:	PPROVED: DATE		70000 of Uucca Valley		
APPROVED:	Hobet L. Holf	R.C.E	27943	TAKE THE PARTY OF	
Promote Comments		<u> </u>		NON RETAINING CONCRETE BLOCKWALL	
	REVISION	B	Y DATE	STANDARD DRAWING NO. 540	-

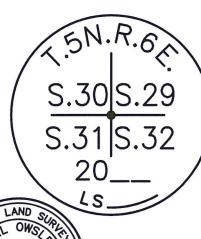


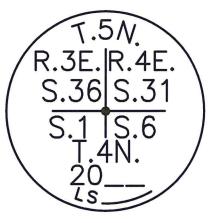












Coult			
APPROVED: Jax Oidla	DATE _	6/2	9/16
APPROVED: TOWN SURVEYOR			
Noel Ondary	L.S.	69	72
DEVICION		DV	DATE



SECTIONAL MONUMENTS

STANDARD DRAWING NO. M2

