


STRUCTURE SURVEY TEMPLATE


				DATE	11-20-08	
ROAD NAME			Ridge Route		COUNTY	Los Angeles
STREAM NAME			Violin Cr		PHOTO ID #	
STRUCTURE #		# 1		X,Y COORDINATE		
TYPE	LENGTH	SIZE (W X H) & SHAPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE	
Railroad Bridge				Top of Road EL		
SPECIAL NOTE (Conditions, Blockage, etc)			clear span over fully lined rect. conc channel			
HIGH WATER MARK (Description, Witness, and Date)			- see plans			
TYPE		CULVERT TYPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE	
Bridge		Number of Barrels	RCP (Reinforced Concrete Pipe)	Height from Top of Road to Invert	Headwall	
Span Bridge		1) Circular	CMP (Corrugated Metal Pipe)		Wingwalls Type 0°, 45°, 90°	
Pier Shape		2) Rectangle (Span X Rise)	Bitmus Coated	Top of Road EL	Projecting	
Culvert		3) Elliptical	Steel	From Topo Map (FT.NGVD) or (FT.NAVD)	Flush with Slope	
Dam		4) Con/Span	Timber		MES (Mitered End Section)	
Spillway		5) Elevated Arch	Ductile		FES (Flared End Section)	
Riser Barrel		6) Pipe Arch	Clay			
Outlet		7) Other	Masonry Rock			

Pier Shape


- 1) Circular pier
- 2) Twin-Cylinder piers
- 3) Elongated pier
- 4) Triangular nose
- 5) Square nose




Types (Shape) of Culvert




1) Circular




4) Con/Span




2) Rectangle



5) Elevated Arch



3) Elliptical

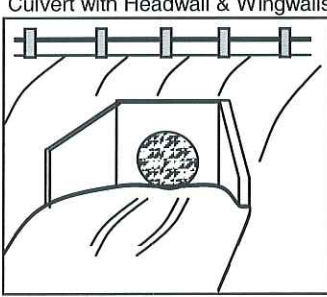


6) Pipe Arch

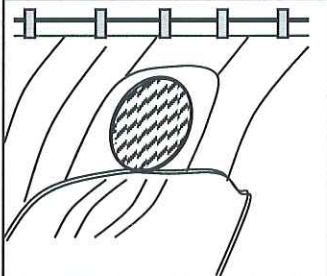
7) Other

Inlet/Outlet Type

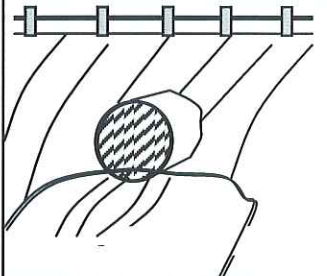
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill



ADDITIONAL CHANNEL INFORMATION

open + commercial + trailer storage

Land Use

none

Vegetative Cover

conc

Bed Material

clear

General Channel Condition

vertical conc

Banks

developed - -

Overbanks

STRUCTURE SURVEY TEMPLATE

mm

				DATE	11-20-08
ROAD NAME	Private Road			COUNTY	L.A.
STREAM NAME	Violon Cyn			PHOTO ID #	
STRUCTURE #	7		X,Y COORDINATE		
TYPE	LENGTH	SIZE (W X H) & SHAPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Railroad Bridge				Top of Road EL	

SPECIAL NOTE
(Conditions, Blockage, etc)

clear span over Rectangular RC channel

HIGH WATER MARK
(Description, Witness, and Date)

bridge is perched higher than channel walls 4/5 & d/s

TYPE	CULVERT TYPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Bridge Span Bridge Pier Shape Culvert Dam Spillway Riser Barrel Outlet	Number of Barrels 1) Circular 2) Rectangle (Span X Rise) 3) Elliptical 4) Con/Span 5) Elevated Arch 6) Pipe Arch 7) Other	RCP (Reinforced Concrete Pipe) CMP (Corrugated Metal Pipe) Bitmus Coated Steel Timber Ductile Clay Masonry Rock	Height from Top of Road to Invert Top of Road EL From Topo Map (FT.NGVD) or (FT.NAVD)	Headwall Wingwalls Type 0°, 45°, 90° Projecting Flush with Slope MES (Mitered End Section) FES (Flared End Section)

Pier Shape

- 1) Circular pier
- 2) Twin-Cylinder piers
- 3) Elongated pier
- 4) Triangular nose
- 5) Square nose

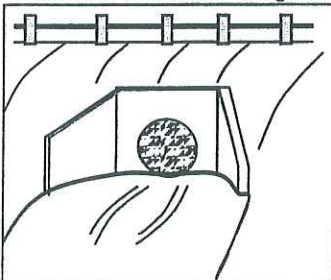


Types (Shape) of Culvert

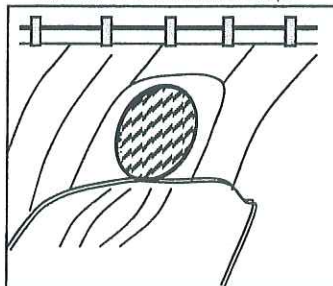
- 1) Circular
- 2) Rectangle
- 3) Elliptical
- 4) Con/Span
- 5) Elevated Arch
- 6) Pipe Arch
- 7) Other

Inlet/Outlet Type

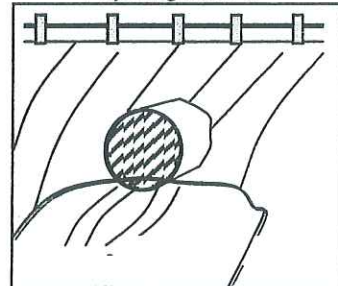
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

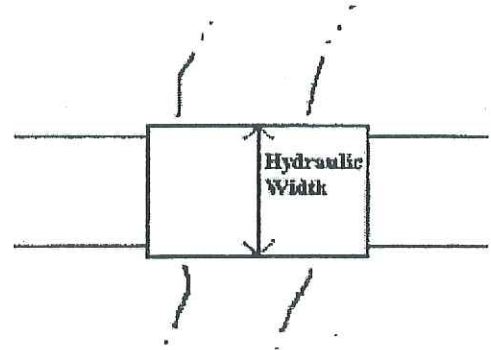
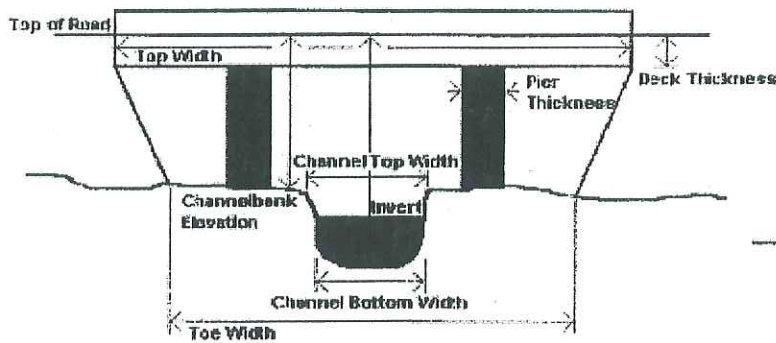


CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

DECK THICKNESS	TOP WIDTH	TOE WIDTH
HYDRAULIC WIDTH	NUMBER OF PIERS	PIER THICKNESS



PHOTOS

Name	Description	PHOTOS

ADDITIONAL CHANNEL INFORMATION

Land Use Commercial

Vegetative Cover none

Bed Material conc lined

General Channel Condition clear

Banks vertical conc


Overbanks developed

STRUCTURE SURVEY TEMPLATE


				DATE	11.20.08
ROAD NAME	Lake Hughes Road			COUNTY	LA
STREAM NAME	Violin Cyn			PHOTO ID #	
STRUCTURE #	#3	X,Y COORDINATE			
TYPE	LENGTH	SIZE (W X H) & SHAPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Railroad Bridge				Top of Road EL	
SPECIAL NOTE (Conditions, Blockage, etc)		clear span over rect conc channel			
HIGH WATER MARK (Description, Witness, and Date)		See plans			
TYPE		CULVERT TYPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Bridge		Number of Barrels	RCP (Reinforced Concrete Pipe)	Height from Top of Road to Invert	Headwall
Span Bridge			CMP (Corrugated Metal Pipe)		
Pier Shape		1) Circular	Bitmus Coated	Top of Road EL	Projecting
Culvert		2) Rectangle (Span X Rise)	Steel		
Dam		3) Elliptical	Timber	From Topo Map (FT.NGVD) or (FT.NAVD)	MES (Mitered End Section)
Spillway		4) Con/Span	Ductile		
Riser Barrel		5) Elevated Arch	Clay		
Outlet		6) Pipe Arch	Masonry Rock		
		7) Other			


Pier Shape


- 1) Circular pier
- 2) Twin-Cylinder piers
- 3) Elongated pier
- 4) Triangular nose
- 5) Square nose





Types (Shape) of Culvert



 1) Circular


 2) Rectangle


 3) Elliptical


 4) Con/Span

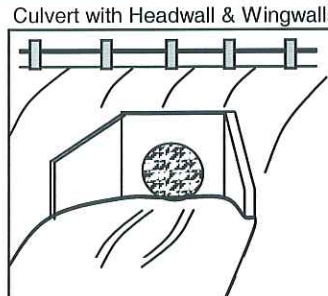

 5) Elevated Arch


 6) Pipe Arch

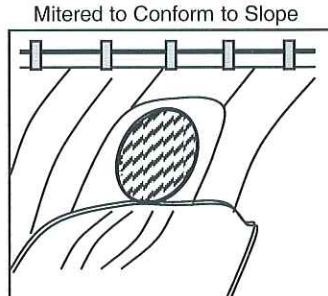
7) Other

Inlet/Outlet Type

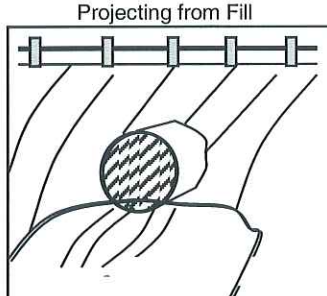
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

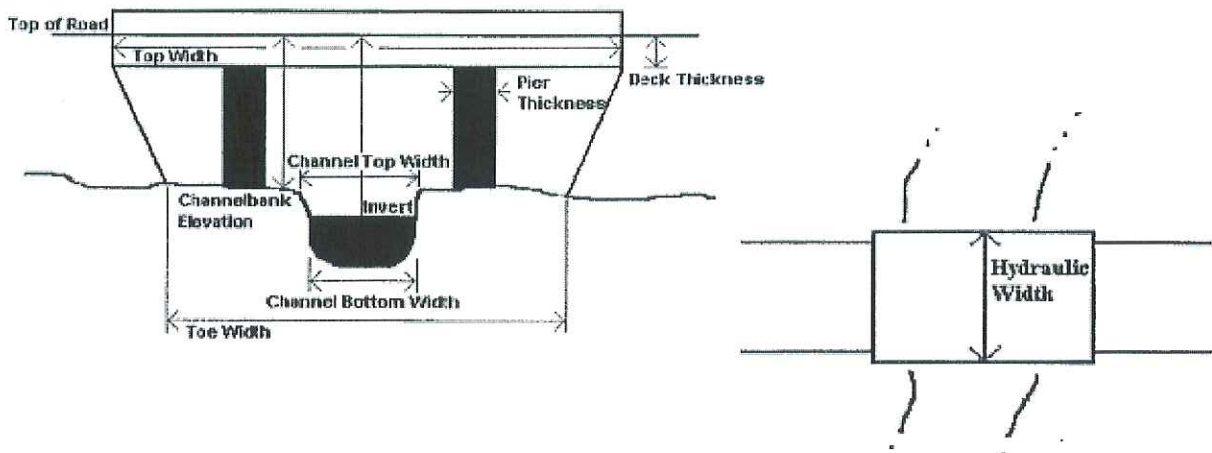


CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

DECK THICKNESS	TOP WIDTH	TOE WIDTH
HYDRAULIC WIDTH	NUMBER OF PIERS	PIER THICKNESS



Name	Description	PHOTOS
V/s	channel is R.C. trapezoidal	
P/s	channel is R.C. rectangle	
	further V/s channel is soft bottom with R.C. ^{side} slopes ~ 2:1	
	erosion of conc on channel bottom is evident - (from rocks)	

ADDITIONAL CHANNEL INFORMATION

residential -> commercial

Land Use

none

Vegetative Cover

conc.

Bed Material

clean

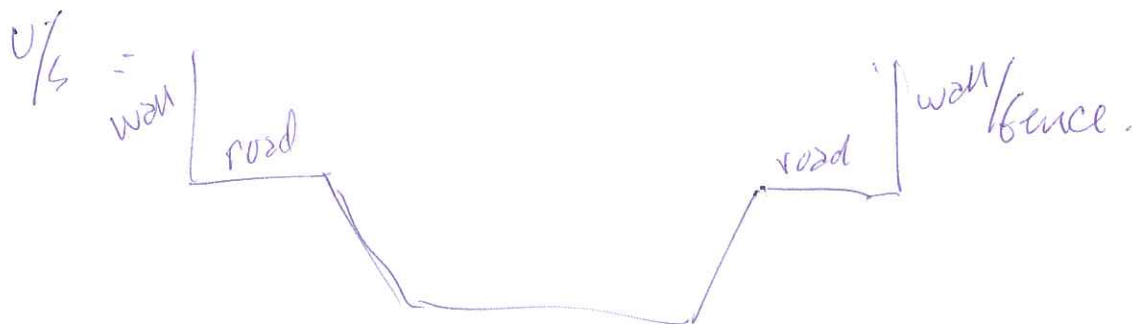
General Channel Condition

conc - transition v/s from trap to vert. at bridge

Banks

developed - walls on both sides v/s

Overbanks

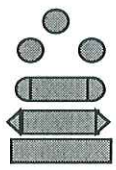
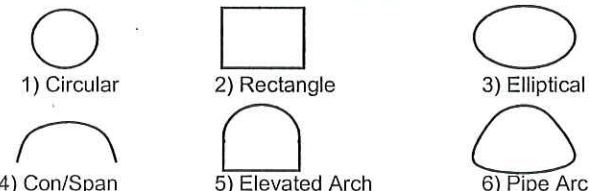


v/s for road is higher than for houses on the left bank. - (reverse)

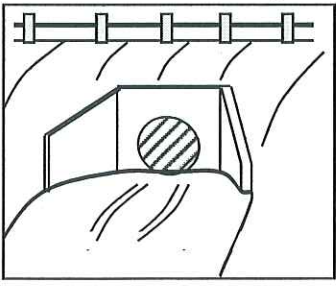
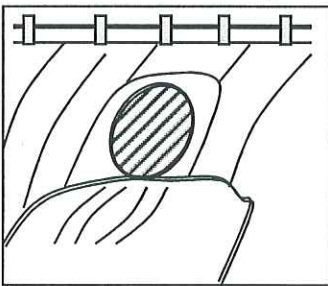
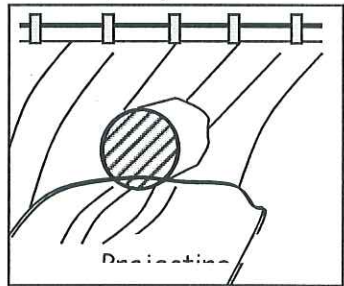
STRUCTURE SURVEY TEMPLATE

				DATE	11-20-08
ROAD NAME	I-5 South bound			COUNTY	Los Angeles
STREAM NAME	Violin			PHOTO ID #	
STRUCTURE #	#4	X,Y COORDINATE			
TYPE	LENGTH	SIZE (W X H) & SHAPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Railroad Bridge				Top of Road EL	
SPECIAL NOTE (Conditions, Blockage, etc)		NOT ACCESSIBLE Need plans			
HIGH WATER MARK (Description, Witness, and Date)					
TYPE		CULVERT TYPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Bridge Span Bridge Pier Shape		Number of Barrels 1) Circular 2) Rectangle (Span X Rise)	RCP (Reinforced Concrete Pipe) CMP (Corrugated Metal Pipe) Bitmus Coated	Height from Top of Road to Invert	Headwall Wingwalls Type 0°, 45°, 90° Projecting Flush with Slope
Culvert Dam Spillway Riser Barrel Outlet		3) Elliptical 4) Con/Span 5) Elevated Arch 6) Pipe Arch 7) Other	Steel Timber Ductile Clay Masonry Rock	Top of Road EL	MES (Mitered End Section) FES (Flared End Section)
				From Topo Map (FT.NGVD) or (FT.NAVD)	

Pier Shape

<ul style="list-style-type: none"> 1) Circular pier 2) Twin-Cylinder piers 3) Elongated pier 4) Triangular nose 5) Square nose 		<p>Types (Shape) of Culvert</p> <ul style="list-style-type: none"> 1) Circular 2) Rectangle 3) Elliptical 4) Con/Span 5) Elevated Arch 6) Pipe Arch 7) Other 	
---	---	--	--

Inlet/Outlet Type

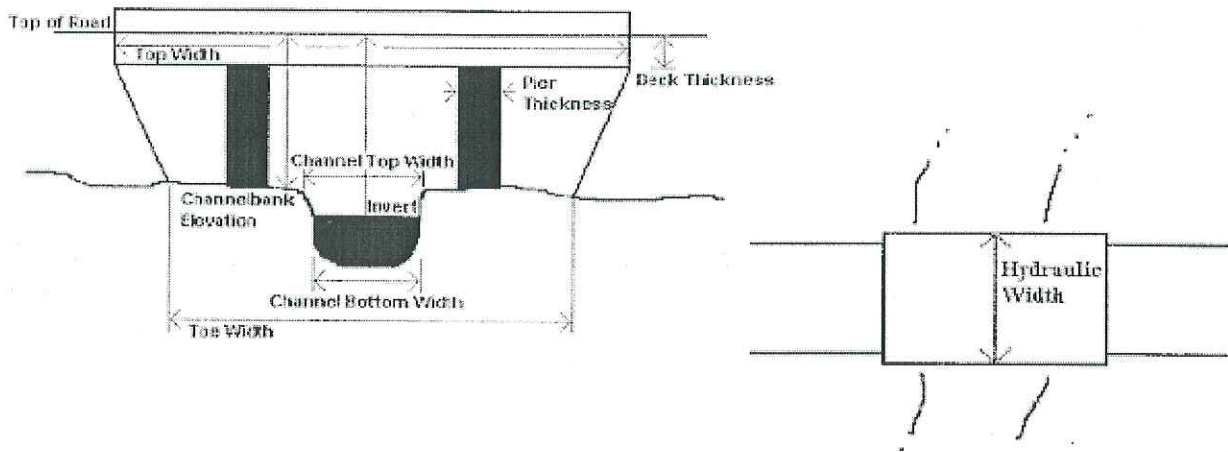
<p>Culvert with Headwall & Wingwalls</p> 	<p>Mitered to Conform to Slope</p> 	<p>Projecting from Fill</p> 
--	--	---

CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

DECK THICKNESS	TOP WIDTH	TOE WIDTH
HYDRAULIC WIDTH	NUMBER OF PIERS	PIER THICKNESS



PHOTOS

Name	Description	PHOTOS
		no photos

ADDITIONAL CHANNEL INFORMATION

Land Use

Vegetative Cover

Bed Material

General Channel Condition

Banks

Overbanks

STRUCTURE SURVEY TEMPLATE







				DATE	11-20-08
ROAD NAME	Cocitae Road			COUNTY	LA
STREAM NAME	Violin Cr			PHOTO ID #	
STRUCTURE #	5		X,Y COORDINATE		
TYPE	LENGTH	SIZE (W X H) & SHAPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Railroad Bridge				Top of Road EL	
SPECIAL NOTE (Conditions, Blockage, etc)		span bridge - conc - + 1 pier.			
HIGH WATER MARK (Description, Witness, and Date)		- see channel plans			
TYPE		CULVERT TYPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Bridge		Number of Barrels	RCP (Reinforced Concrete Pipe)	Height from Top of Road to Invert	Headwall
Span Bridge		1) Circular	CMP (Corrugated Metal Pipe)		Top of Road EL
Pier Shape		2) Rectangle (Span X Rise)	Bitmus Coated	From Topo Map (FT.NGVD) or (FT.NAVD)	
Culvert		3) Elliptical	Steel		Flush with Slope
Dam		4) Con/Span	Timber		MES (Mitered End Section)
Spillway		5) Elevated Arch	Ductile		FES (Flared End Section)
Riser Barrel		6) Pipe Arch	Clay		
Outlet		7) Other	Masonry Rock		

Pier Shape

- 1) Circular pier
- 2) Twin-Cylinder piers
- 3) Elongated pier
- 4) Triangular nose
- 5) Square nose

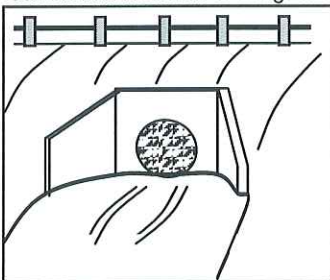


Types (Shape) of Culvert

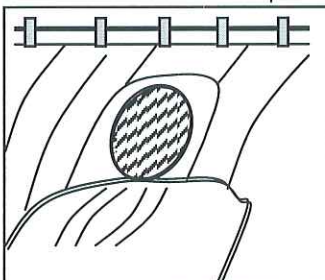
- | | | |
|---|---|---|
|  |  |  |
| 1) Circular | 2) Rectangle | 3) Elliptical |
|  |  |  |
| 4) Con/Span | 5) Elevated Arch | 6) Pipe Arch |
| 7) Other | | |

Inlet/Outlet Type

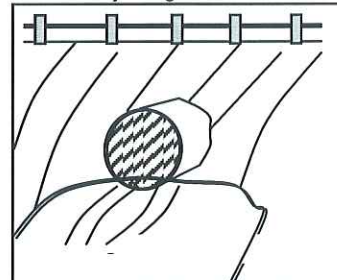
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

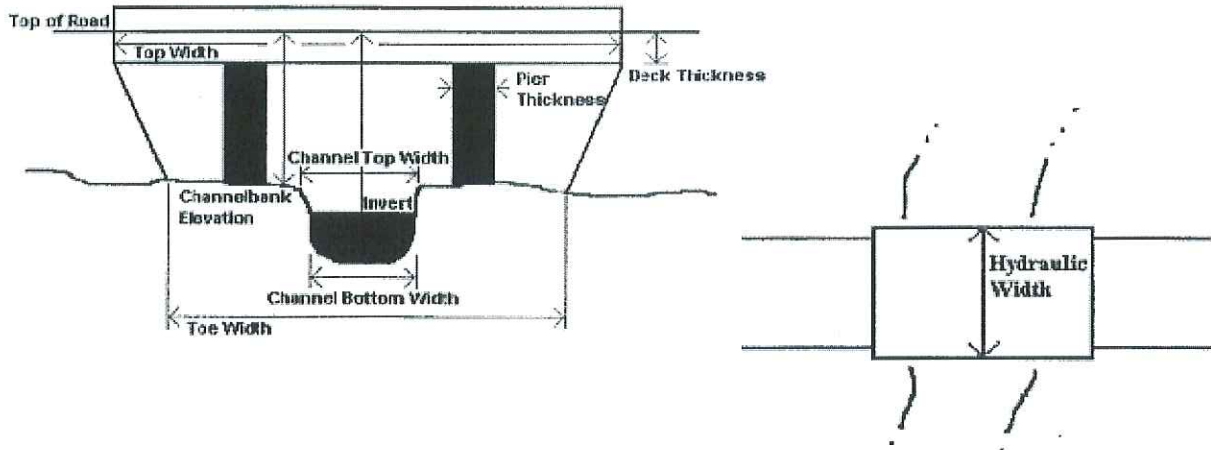


CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

DECK THICKNESS	TOP WIDTH	TOE WIDTH
HYDRAULIC WIDTH	NUMBER OF PIERS	PIER THICKNESS



PHOTOS

Name

Description

note: not too far d/s of the confluence
with Morple Crn..

both channels are lined concrete
trap channels down to
culvert under I-5 S-bound..
(not seen -- no access).

ADDITIONAL CHANNEL INFORMATION

Land Use Industrial

Vegetative Cover none

Bed Material Conc

General Channel Condition clean

Banks Lined with conc D/S, with gabions (vertical) o/s

Overbanks open / flat - - trailers, etc.

STRUCTURE SURVEY TEMPLATE







				DATE	11.20-08
ROAD NAME		I-5 - north-bound		COUNTY	CA
STREAM NAME		Violet Cr		PHOTO ID #	
STRUCTURE #		6		X,Y COORDINATE	
TYPE	LENGTH	SIZE (W X H) & SHAPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Railroad Bridge				Top of Road EL	
SPECIAL NOTE (Conditions, Blockage, etc)		rect cone span bridge - 1 pier			
HIGH WATER MARK (Description, Witness, and Date)		immed Ws of Castaic Rd bridge - see plans			
TYPE		CULVERT TYPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Bridge		Number of Barrels	RCP (Reinforced Concrete Pipe)	Height from Top of Road to Invert	Headwall
Span Bridge		1) Circular	CMP (Corrugated Metal Pipe)		Top of Road EL
Pier Shape		2) Rectangle (Span X Rise)	Bitmus Coated	From Topo Map (FT.NGVD) or (FT.NAVD)	
Culvert		3) Elliptical	Steel		Flush with Slope
Dam		4) Con/Span	Timber		MES (Mitered End Section)
Spillway		5) Elevated Arch	Ductile		FES (Flared End Section)
Riser Barrel		6) Pipe Arch	Clay		
Outlet		7) Other	Masonry Rock		

Pier Shape

- 1) Circular pier
- 2) Twin-Cylinder piers
- 3) Elongated pier
- 4) Triangular nose
- 5) Square nose

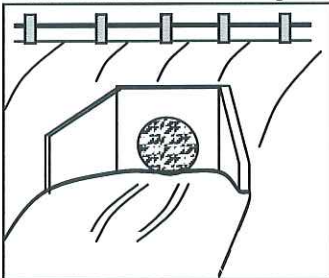


Types (Shape) of Culvert

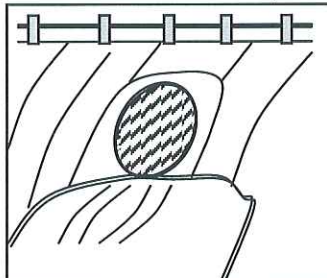
- 
 1) Circular
- 
 2) Rectangle
- 
 3) Elliptical
- 
 4) Con/Span
- 
 5) Elevated Arch
- 
 6) Pipe Arch
- 7) Other

Inlet/Outlet Type

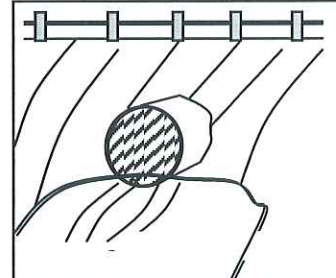
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

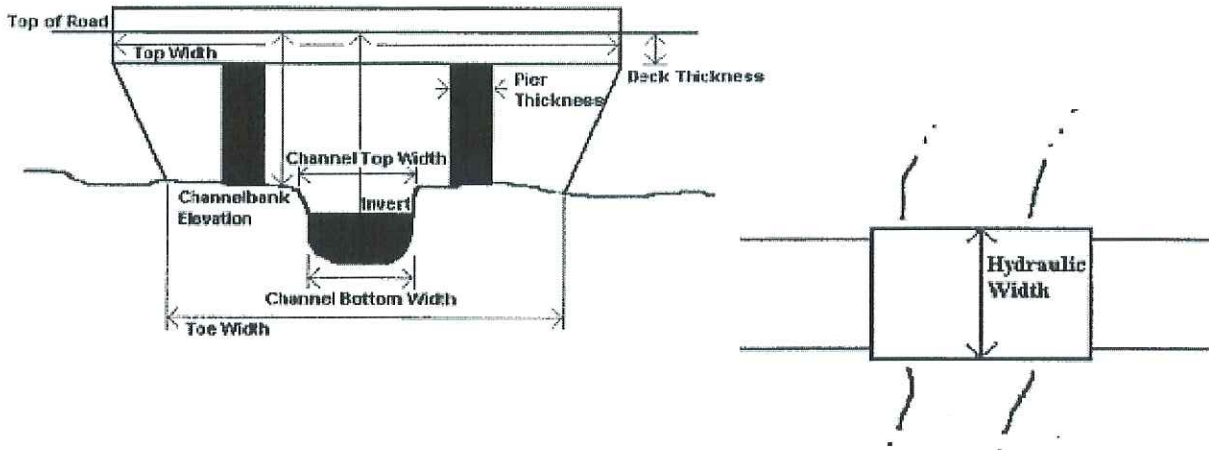


CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

DECK THICKNESS	TOP WIDTH	TOE WIDTH
HYDRAULIC WIDTH	NUMBER OF PIERS	PIER THICKNESS



PHOTOS

Name

Description

bfunt 1.5. N bound of castaic rd.

both banks ~~are~~ have gabion.

side slopes, Conc lined bottom

ADDITIONAL CHANNEL INFORMATION

Land Use See Xing # 5

Vegetative Cover _____

Bed Material _____

General Channel Condition _____

Banks _____

Overbanks _____

STRUCTURE SURVEY TEMPLATE

				DATE	11-20-08
ROAD NAME	The Old Road.			COUNTY	LA
STREAM NAME	Violet Cyn			PHOTO ID #	
STRUCTURE #	7		X,Y COORDINATE		
TYPE	LENGTH	SIZE (W X H) & SHAPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Railroad Bridge				Top of Road EL	

SPECIAL NOTE
(Conditions, Blockage, etc) bridge / culvert with pier + debris nose

HIGH WATER MARK
(Description, Witness, and Date) L side = 21w x 8'9" H
R side = 20w x 8'9" H

TYPE	CULVERT TYPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Bridge Span Bridge Pier Shape Culvert Dam Spillway Riser Barrel Outlet	Number of Barrels 1) Circular 2) Rectangle (Span X Rise) 3) Elliptical 4) Con/Span 5) Elevated Arch 6) Pipe Arch 7) Other	RCP (Reinforced Concrete Pipe) CMP (Corrugated Metal Pipe) Bitmus Coated Steel Timber Ductile Clay Masonry Rock	Height from Top of Road to Invert Top of Road EL From Topo Map (FT.NGVD) or (FT.NAVD)	Headwall Wingwalls Type 0°, 45°, 90° Projecting Flush with Slope MES (Mitered End Section) FES (Flared End Section)

Pier Shape

- 1) Circular pier
- 2) Twin-Cylinder piers
- 3) Elongated pier
- 4) Triangular nose
- 5) Square nose

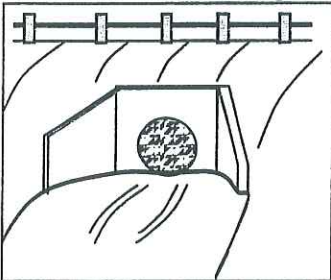


Types (Shape) of Culvert

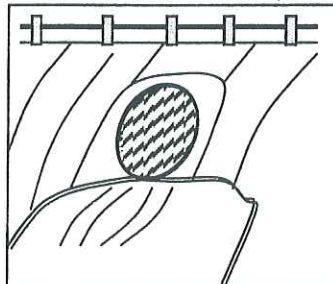
- | | | |
|-----------------|----------------------|-------------------|
|
1) Circular |
2) Rectangle |
3) Elliptical |
|
4) Con/Span |
5) Elevated Arch |
6) Pipe Arch |
| 7) Other | | |

Inlet/Outlet Type

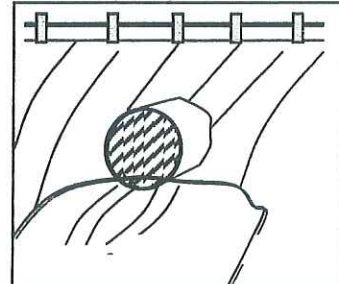
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

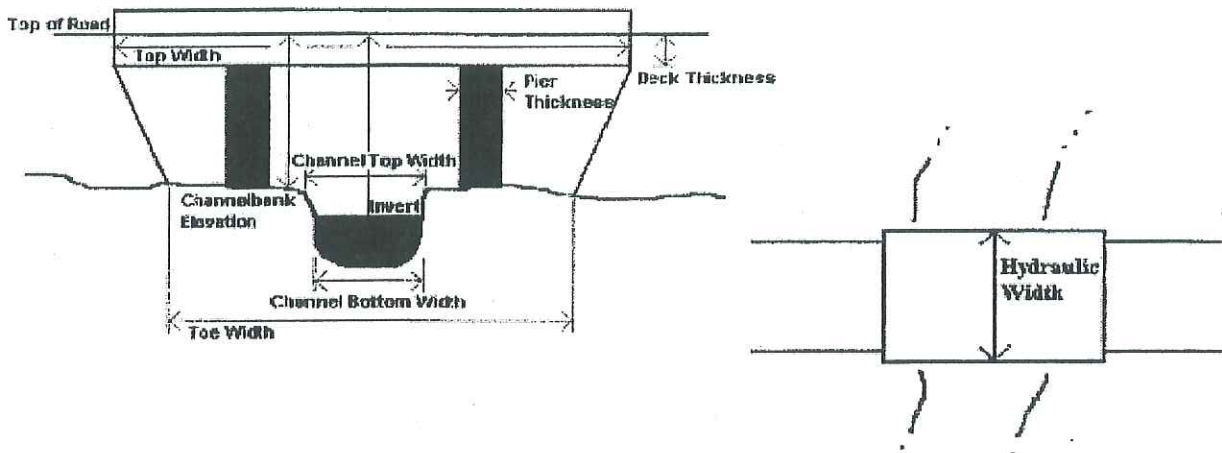


CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

DECK THICKNESS	TOP WIDTH	TOE WIDTH
HYDRAULIC WIDTH	NUMBER OF PIERS	PIER THICKNESS



PHOTOS

Name

Description

Channel is fully lined w/ variable dimension

conc on channel bottom is scarred from rocks
 - Scour of conc around nose of pier!

ADDITIONAL CHANNEL INFORMATION

Land Use

residential

Vegetative Cover

little

Bed Material

conc lining

General Channel Condition

clean

Banks

conc lining

Overbanks

hillside + homes.

STRUCTURE SURVEY TEMPLATE

				DATE	11-20-06
ROAD NAME	Sierra Oak Trail			COUNTY	CA
STREAM NAME	Violin Crn			PHOTO ID #	
STRUCTURE #	8		X,Y COORDINATE		
TYPE	LENGTH	SIZE (W X H) & SHAPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Railroad Bridge				Top of Road EL	
SPECIAL NOTE (Conditions, Blockage, etc)		triple box @ 1/3 end of lined reach			
HIGH WATER MARK (Description, Witness, and Date)		1/3 is unlined... 21'9" x 10'8" ??			
TYPE		CULVERT TYPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Bridge		Number of Barrels	RCP (Reinforced Concrete Pipe)	Height from Top of Road to Invert	Headwall
Span Bridge			CMP (Corrugated Metal Pipe)		Top of Road EL
Pier Shape			Bitmus Coated	From Topo Map (FT.NGVD) or (FT.NAVD)	Projecting
Culvert		1) Circular	Steel		Flush with Slope
Dam		2) Rectangle (Span X Rise)	Timber		MES (Mitered End Section)
Spillway		3) Elliptical	Ductile		FES (Flared End Section)
Riser Barrel		4) Con/Span	Clay		
Outlet		5) Elevated Arch	Masonry Rock		
		6) Pipe Arch			
		7) Other			

Pier Shape

- 1) Circular pier
- 2) Twin-Cylinder piers
- 3) Elongated pier
- 4) Triangular nose
- 5) Square nose

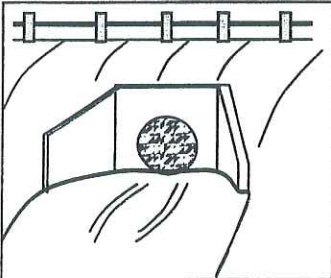


Types (Shape) of Culvert

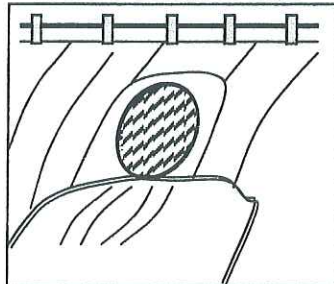
- | | | |
|-------------|------------------|---------------|
| 1) Circular | 2) Rectangle | 3) Elliptical |
| 4) Con/Span | 5) Elevated Arch | 6) Pipe Arch |
| 7) Other | | |

Inlet/Outlet Type

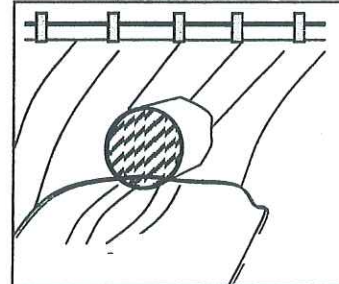
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

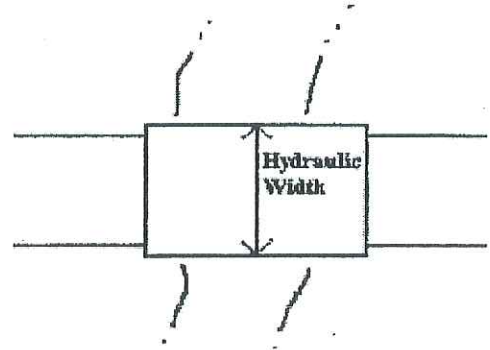
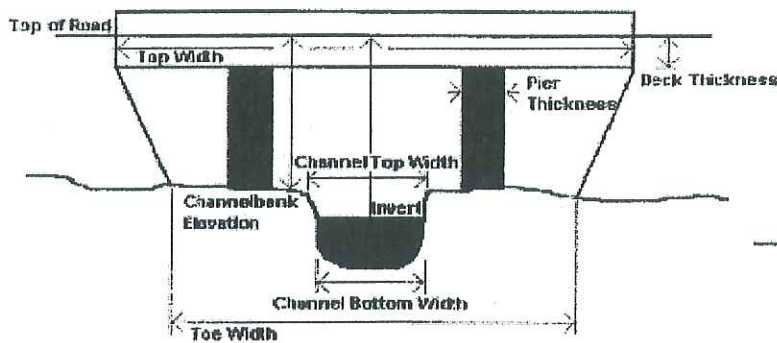


CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

DECK THICKNESS	TOP WIDTH	TOE WIDTH
HYDRAULIC WIDTH	NUMBER OF PIERS	PIER THICKNESS



		PHOTOS
Name	Description	
<i>1/3 end</i>		<i>PIER NOSES</i>
		<i>1/3 is huge lined funnel transition to piers crossing</i>

ADDITIONAL CHANNEL INFORMATION

u/s is natural cym d/s is residential

Land Use

u/s very brushy in channel

Vegetative Cover

near bridg is conc lined

u/s = sand - cobble

Bed Material

clean locally - full of brush u/s

General Channel Condition

cym u/s, conc lined locally & ds

Banks

residences / cym

Overbanks