

STRUCTURE SURVEY TEMPLATE

				DATE	3-31-10
ROAD NAME	Escondido Cwn Rd			COUNTY	LA
STREAM NAME	Escondido Creek			PHOTO ID #	843 - 845
STRUCTURE #	① - Asistencia		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)		near confluence with Red River looking d/s from culvert below Escondido Cwn Rd			
HIGH WATER MARK (Description, Witness, and Date)		<u>1/2 buried 48" CMP</u> - (#702 sign)			
TYPE		CULVERT TYPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Bridge Span Bridge Pier Shape		Number of Barrels ①	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		1) Circular	Steel	Top of Road EL	MES (Mitered End Section) FES (Flared End Section)
Dam		2) Rectangle (Span X Rise)	Timber	From Topo Map (FT.NGVD) or (FT.NAVD)	
Spillway		3) Elliptical	Ductile		
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

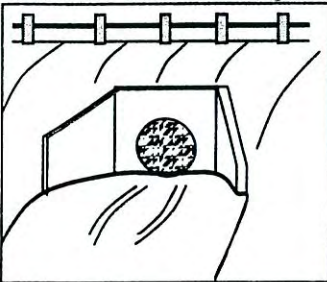


Types (Shape) of Culvert

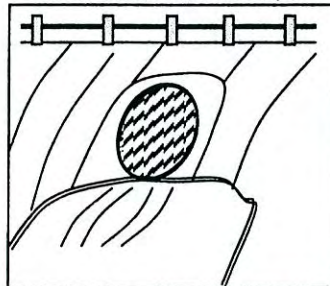
- 1) Circular
- 2) Rectangle
- 3) Elliptical
- 4) Con/Span
- 5) Elevated Arch
- 6) Pipe Arch
- 7) Other

Inlet/Outlet Type

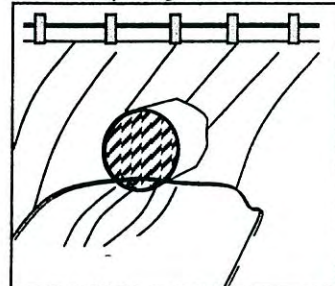
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

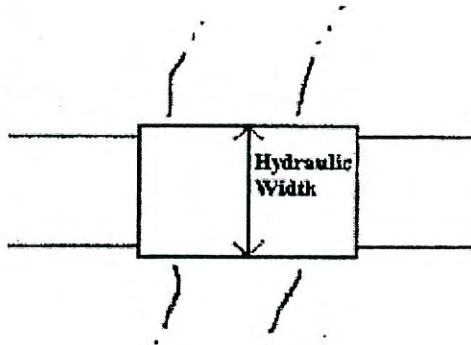
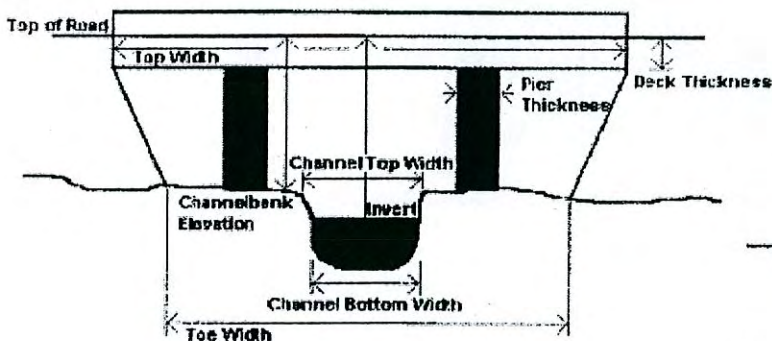


CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

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



Name	Description	PHOTOS
		<p># 843 = 1/3 side of culvert looking N/S</p> <p># 845 = 2/3 side of culvert looking N/S</p> <p># 844 = in creek looking N/S</p> <p>lots of sediment</p>

ADDITIONAL CHANNEL INFORMATION

Land Use open / industrial

Vegetative Cover brush

Bed Material sandy gravel

General Channel Condition incised

Banks steep

Overbanks brush

Channel parallels road

STRUCTURE SURVEY TEMPLATE

				DATE	3-31-10
ROAD NAME	Escondido Cw Rd			COUNTY	LA
STREAM NAME	Escondido Creek			PHOTO ID #	246-249
STRUCTURE #	(2) - no structure		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)		channel has been satisfactorily narrowed in the vicinity of Red Rover Dam			
HIGH WATER MARK (Description, Witness, and Date)		- see picks #248 #249			
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		1) Circular	Bitmus Coated	From Topo Map (FT.NGVD) or (FT.NAVD)	
Culvert		2) Rectangle (Span X Rise)	Steel		Flush with Slope
Dam		3) Elliptical	Timber		MES (Mitered End Section)
Spillway		4) Con/Span	Ductile		FES (Flared End Section)
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

ADDITIONAL CHANNEL INFORMATION

Land Use open / ranch

Vegetative Cover brush

Bed Material sand & gravel

General Channel Condition incised

Banks steep

Overbanks brush

no structures between culverts
on floodplains on Rd.

Some construction of channel
near Red River River

STRUCTURE SURVEY TEMPLATE

				DATE	7-29-08
ROAD NAME	Esccondido Cyn Rd			COUNTY	LA
STREAM NAME	Esccondido Ck			PHOTO ID #	
STRUCTURE #	ECE ECI	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)		Near intersection with Red Rover Mine Rd.			
HIGH WATER MARK (Description, Witness, and Date)		1/2 buried RCP.			
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 48"	CMP (Corrugated Metal Pipe)	Top of Road EL	Wingwalls Type 0°, 45°, 90°
Pier Shape		2) Rectangle (Span X Rise)	Bitmus Coated		Projecting
<u>Culvert</u>		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 24" buried	Clay		
Outlet		7) Other	Masonry Rock		

Pier Shape

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

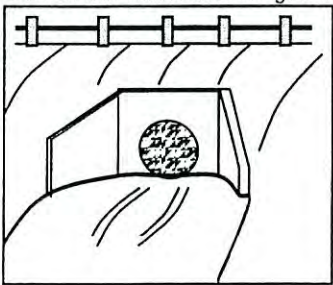


Types (Shape) of Culvert

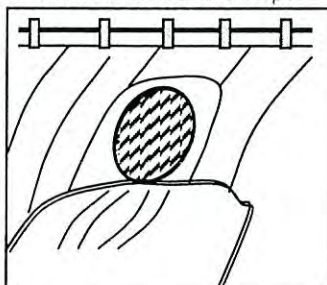
- 1) Circular
- 2) Rectangle
- 3) Elliptical
- 4) Con/Span
- 5) Elevated Arch
- 6) Pipe Arch
- 7) Other

Inlet/Outlet Type

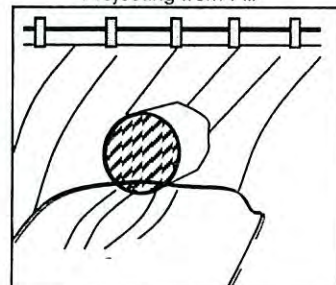
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

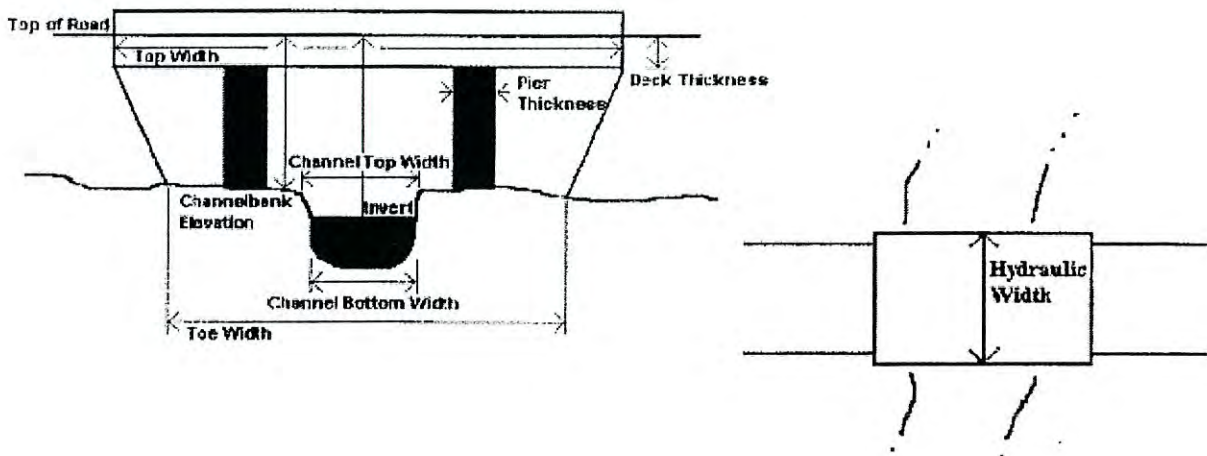


CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

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



Name	Description	PHOTOS
	<p>conc outside looks like a CMP inside</p>	

ADDITIONAL CHANNEL INFORMATION

Land Use

open space

Vegetative Cover

brush

Bed Material

sand + gravel
clear sandy bottom 1/4

General Channel Condition

incised, filled. 

Banks

vertical banks, ~ 5' tall

Overbanks

brush

STRUCTURE SURVEY TEMPLATE

				DATE	7-29-08
ROAD NAME	Ward Rd			COUNTY	LA
STREAM NAME	Escondido Creek			PHOTO ID #	
STRUCTURE #	EC 2		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)					
HIGH WATER MARK (Description, Witness, and Date)					
TYPE		CULVERT TYPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Bridge Span Bridge Pier Shape <u>Culvert</u> Dam Spillway Riser Barrel Outlet		Number of Barrels 1) Circular <u>36" dia</u> 2) Rectangle (Span X Rise) 3) Elliptical 4) Con/Span 5) Elevated Arch 6) Pipe Arch 7) Other	RCP (Reinforced Concrete Pipe) <u>CMP</u> (Corrugated Metal Pipe) Bitmus Coated Steel Timber Ductile Clay Masonry Rock	Height from Top of Road to Invert <u>Top of Road EL</u> 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

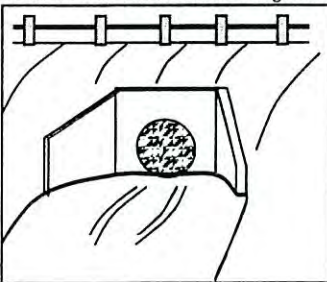


Types (Shape) of Culvert

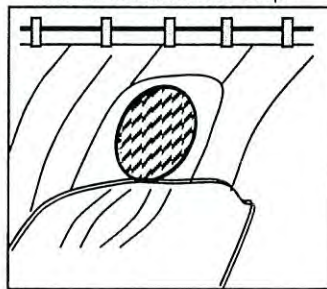
- | | | |
|-------------|------------------|---------------|
| 1) Circular | 2) Rectangle | 3) Elliptical |
| 4) Con/Span | 5) Elevated Arch | 6) Pipe Arch |
| 7) Other | | |

Inlet/Outlet Type

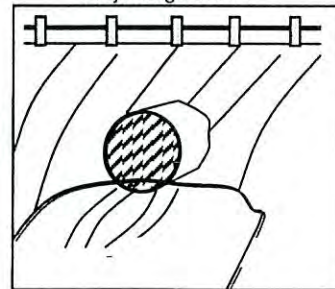
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

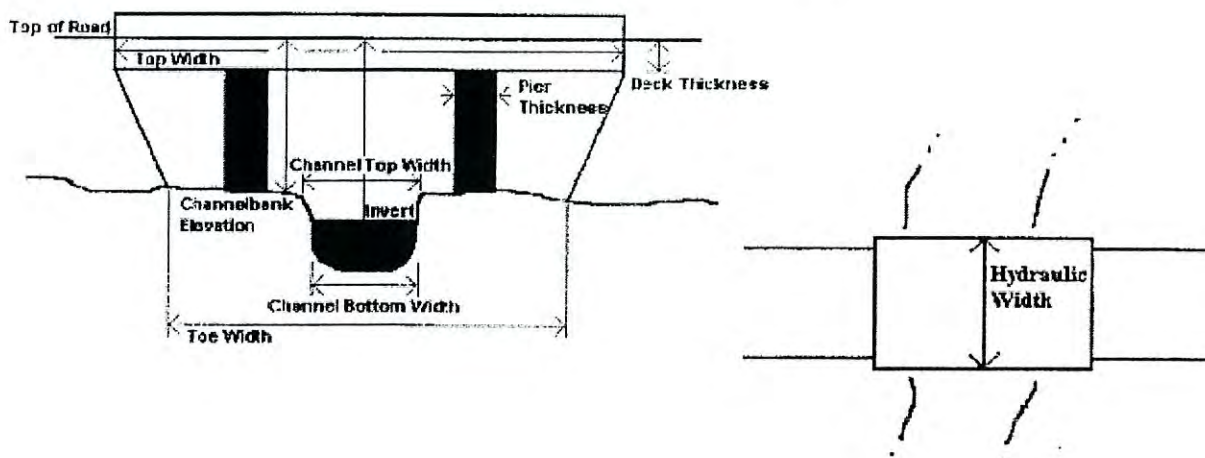


CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

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



Name	Description	PHOTOS
<p>conc apron d/s</p>		

ADDITIONAL CHANNEL INFORMATION

open

Land Use

brush

Vegetative Cover

sand + gravel

Bed Material

well defined, fairly clear $\frac{1}{2}$ s
incised $\frac{1}{2}$ s, more brushy $\frac{1}{2}$ s.

General Channel Condition

$\sim 1:1$ $\frac{1}{2}$ s erosion levees $\frac{1}{2}$ s, brush on banks $\frac{1}{2}$ s
vertical $\frac{1}{2}$ s

Banks

brush, roads.

Overbanks

STRUCTURE SURVEY TEMPLATE

				DATE	7-28-08
ROAD NAME	Hwy 14			COUNTY	CA
STREAM NAME	Escondido Cr			PHOTO ID #	
STRUCTURE #	EA EC 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)		3' drop d/s of culverts			
HIGH WATER MARK (Description, Witness, and Date)		note: culvert is 1/2 full of sed @ v/s end			
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		2	CMP (Corrugated Metal Pipe)		Wingwalls Type 0°, 45°, 90°
Pier Shape		1) Circular	Bitmus Coated	Top of Road EL	Projecting
<u>Culvert</u>		2) Rectangle (Span X Rise)	Steel	From Topo Map (FT.NGVD) or (FT.NAVD)	Flush with Slope
Dam		3) Elliptical	Timber		MES (Mitered End Section)
Spillway		4) Con/Span	Ductile		FES (Flared End Section)
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

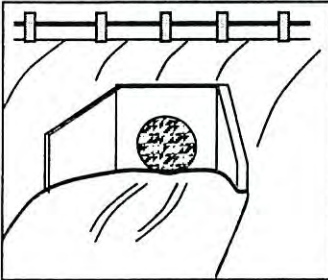


Types (Shape) of Culvert

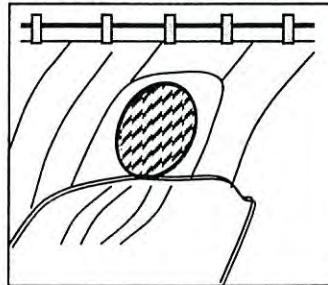
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|-------------|------------------|---------------|
| | | |
| 1) Circular | 2) Rectangle | 3) Elliptical |
| | | |
| 4) Con/Span | 5) Elevated Arch | 6) Pipe Arch |
| | | 7) Other |

Inlet/Outlet Type

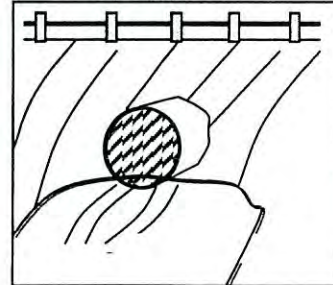
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

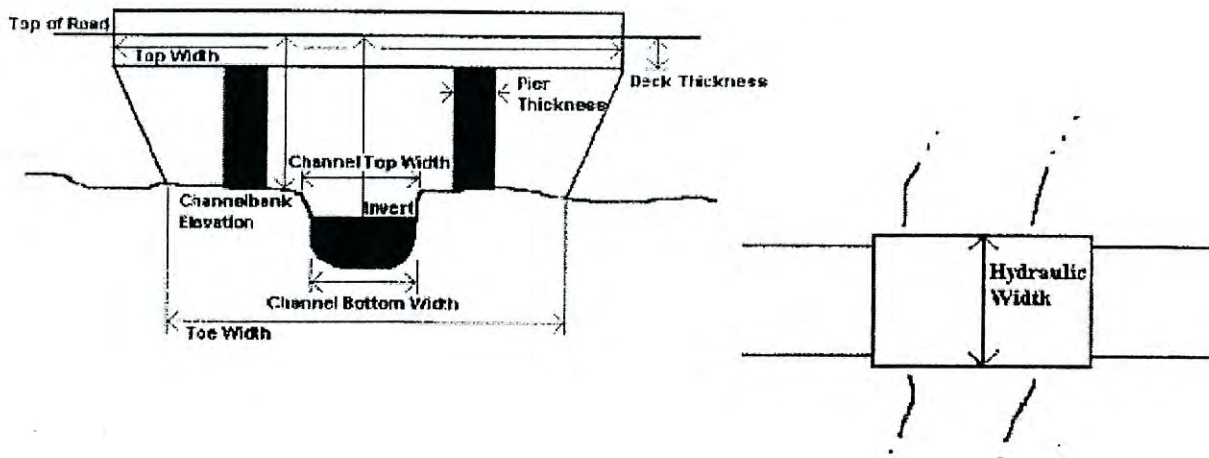


CHANNEL INFORMATION

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
		<p><i>double box</i></p> <p><i>rocks</i></p> <p><i>conc</i></p> <p><i>3'</i></p> <p><i>conc inlet apron @ 1/3 end</i></p> <p><i>@ 1/3, box is 1/2 full (3') of sediment</i></p>

ADDITIONAL CHANNEL INFORMATION

open d/s

open space v/s

Land Use

recent fire d/s, some brush

Vegetative Cover

thick brush v/s, some very tall.

sand + gravel

Bed Material

ill defined, winding d/s

wide, undefined v/s

General Channel Condition

vertical at some locations D/s

no clear banks v/s

Banks

clear, some brush d/s

heavy brush v/s

Overbanks

large steel debris fence


@ v/s end (above conc. lined apron).

STRUCTURE SURVEY TEMPLATE

				DATE	7.29.08
ROAD NAME	Sierra Highway			COUNTY	LA
STREAM NAME	Escondido Creek			PHOTO ID #	
STRUCTURE #	EC 4 (error)		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)		culvert seems small compared to d/s			
HIGH WATER MARK (Description, Witness, and Date)		(EC 3)			
TYPE		CULVERT TYPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Bridge Span Bridge Pier Shape <u>Culvert</u> Dam Spillway Riser Barrel Outlet	1	Number of Barrels 1 1) Circular 3' x 2' <u>2) Rectangle (Span X Rise)</u> 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 <u>Top of Road EL</u> 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)

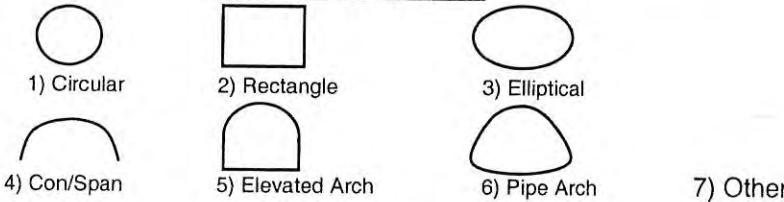
Pier Shape

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



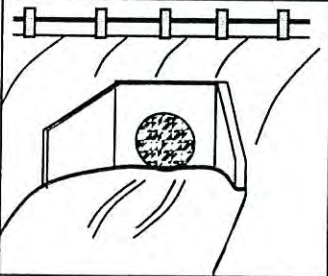
Types (Shape) of Culvert

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

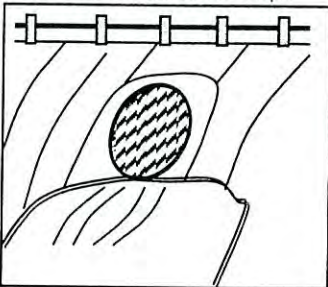


Inlet/Outlet Type

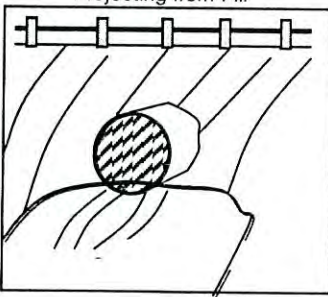
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

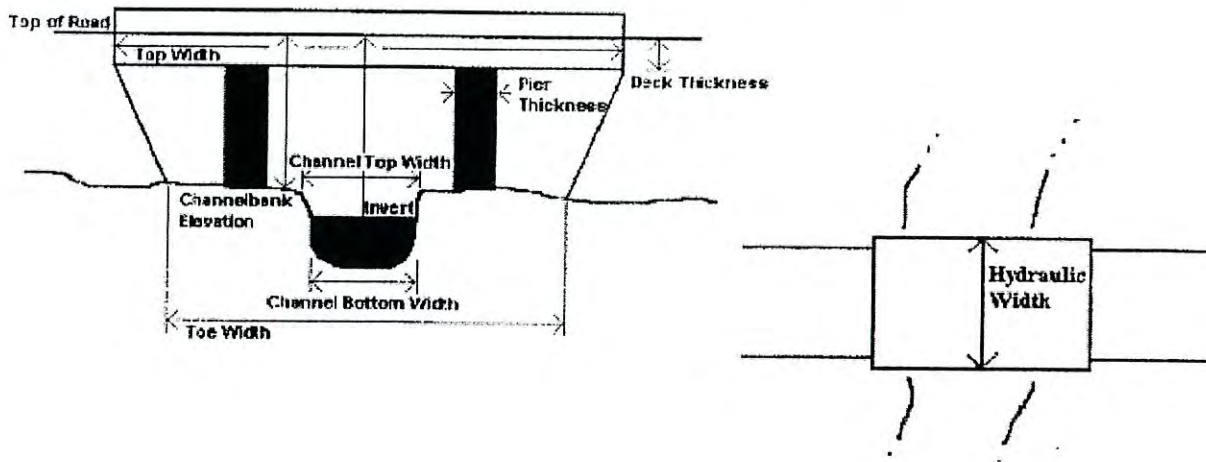


CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

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



Name	Description	PHOTOS
	<p>Looking d/s</p> <p>u/s side</p> <p>sewer thru</p> <p>dirt</p> <p>conc</p>	<p>d/s side</p> <p>4'</p>

ADDITIONAL CHANNEL INFORMATION

u/s reach = open

d/s = open

Land Use

brush

Vegetative Cover

sand + gravel

Bed Material

undefined u/s

very defined d/s

General Channel Condition

wide gentle slope u/s
vertical d/s

Banks

brush

Overbanks

u/s seems to be acting as a detention basin
high velocities out of small culvert to d/s reach.

STRUCTURE SURVEY TEMPLATE







				DATE	7.29.08
ROAD NAME	Sierra Hwy			COUNTY	LA
STREAM NAME	Escondido Cr			PHOTO ID #	
STRUCTURE #	EC 4		X,Y COORDINATE		
TYPE	LENGTH	SIZE (W X H) & SHAPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Railroad Bridge		6' x 37.5" box		Top of Road EL	
SPECIAL NOTE (Conditions, Blockage, etc)		note: not much cover, maybe 18" to road el			
HIGH WATER MARK (Description, Witness, and Date)					
TYPE		CULVERT TYPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Bridge Span Bridge Pier Shape <u>Culvert</u> Dam Spillway Riser Barrel Outlet		Number of Barrels 1 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 <u>Top of Road EL</u> 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

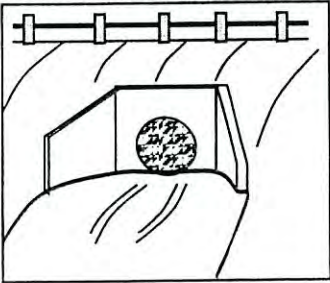


Types (Shape) of Culvert

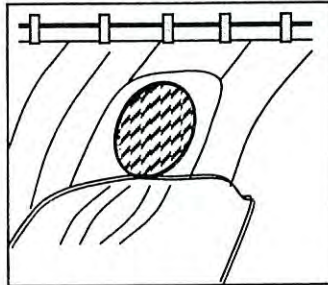
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|---|---|---|
|  |  |  |
| 1) Circular | 2) Rectangle | 3) Elliptical |
|  |  |  |
| 4) Con/Span | 5) Elevated Arch | 6) Pipe Arch |
| 7) Other | | |

Inlet/Outlet Type

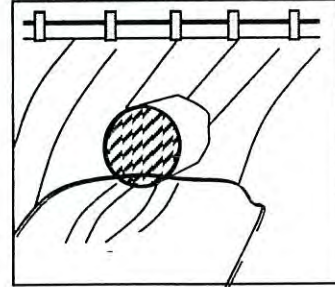
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

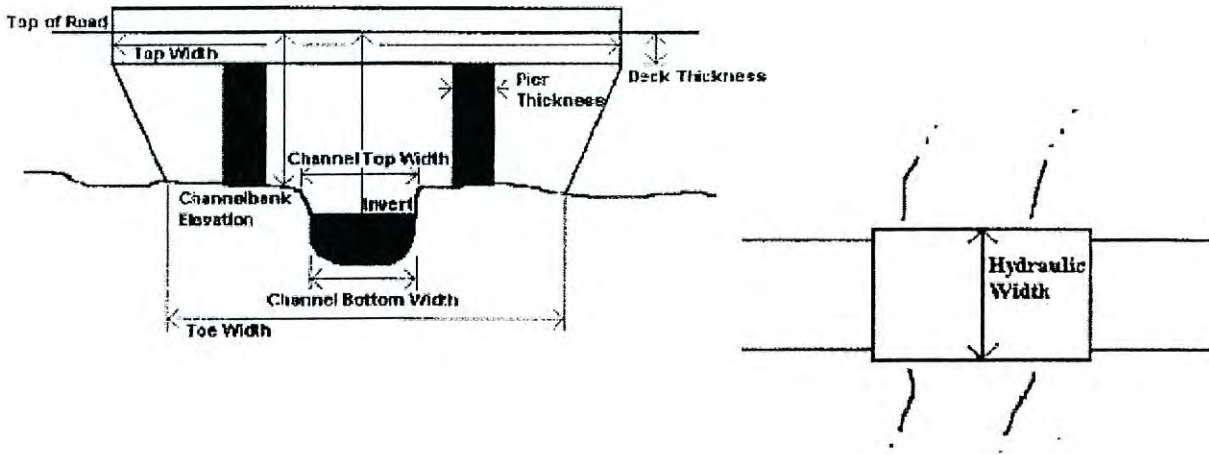


CHANNEL INFORMATION

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
		<p>bank @ Survey line</p> <p>~1-FT drop-off @ d/s end of Culvert.</p>

ADDITIONAL CHANNEL INFORMATION

Land Use

open + industrial(?) d/s - some kind of drilling in progress.

Vegetative Cover

brush v/s & d/s

Bed Material

sand, gravel + cobbles

General Channel Condition

general top v/s, d/s

Banks

brush.

Overbanks

STRUCTURE SURVEY TEMPLATE







				DATE	
ROAD NAME	Trimmer Rd			COUNTY	
STREAM NAME	Escondido CK			PHOTO ID #	
STRUCTURE #	EC 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)		dip in dirt road			
HIGH WATER MARK (Description, Witness, and Date)					
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

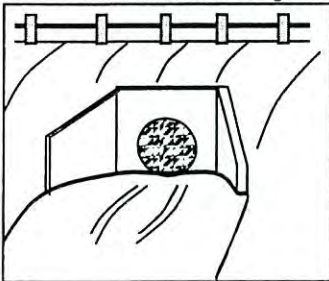


Types (Shape) of Culvert

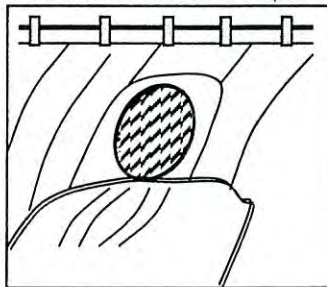
- | | | |
|---|---|---|
|  |  |  |
| 1) Circular | 2) Rectangle | 3) Elliptical |
|  |  |  |
| 4) Con/Span | 5) Elevated Arch | 6) Pipe Arch |
| 7) Other | | |

Inlet/Outlet Type

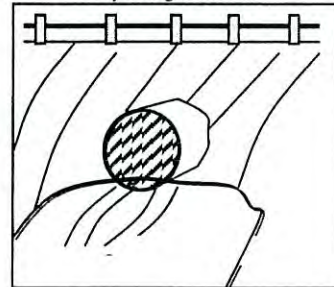
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill



ADDITIONAL CHANNEL INFORMATION

Land Use light residential

Vegetative Cover brush

Bed Material sand & gravel

no channel

General Channel Condition

none

Banks

brush -

Overbanks
