

## STRUCTURE SURVEY TEMPLATE

				<b>DATE</b>	2-31-10
<b>ROAD NAME</b>	Benson Rd			<b>COUNTY</b>	LA
<b>STREAM NAME</b>	Acton Cyn #2			<b>PHOTO ID #</b>	#841
<b>STRUCTURE #</b>	no structure - ①		<b>X,Y COORDINATE</b>		
<b>TYPE</b>	<b>LENGTH</b>	<b>SIZE (W X H) &amp; SHAPE</b>	<b>MATERIAL</b>	<b>Road to Bed</b>	<b>INLET/OUTLET TYPE</b>
Railroad Bridge				<b>Top of Road EL</b>	
<b>SPECIAL NOTE</b> (Conditions, Blockage, etc)		unable to access Acton Cyn #2 @ d/s end			
<b>HIGH WATER MARK</b> (Description, Witness, and Date)		1 picture taken from fur end of Benson Rd, looking E-NE toward confluence #841			
<b>TYPE</b>		<b>CULVERT TYPE</b>	<b>MATERIAL</b>	<b>Road to Bed</b>	<b>INLET/OUTLET TYPE</b>
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  <b>Top of Road EL</b>  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

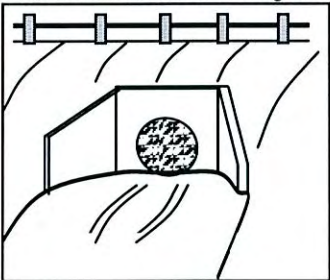


**Types (Shape) of Culvert**

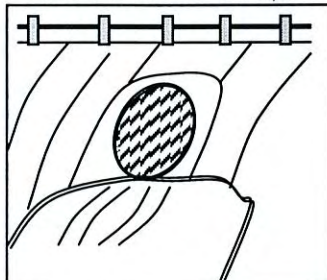
- 1) Circular
- 2) Rectangle
- 3) Elliptical
- 4) Con/Span
- 5) Elevated Arch
- 6) Pipe Arch
- 7) Other

**Inlet/Outlet Type**

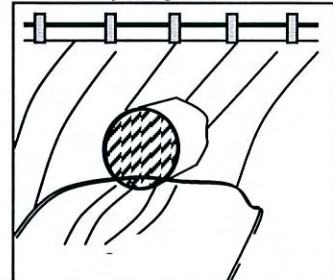
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

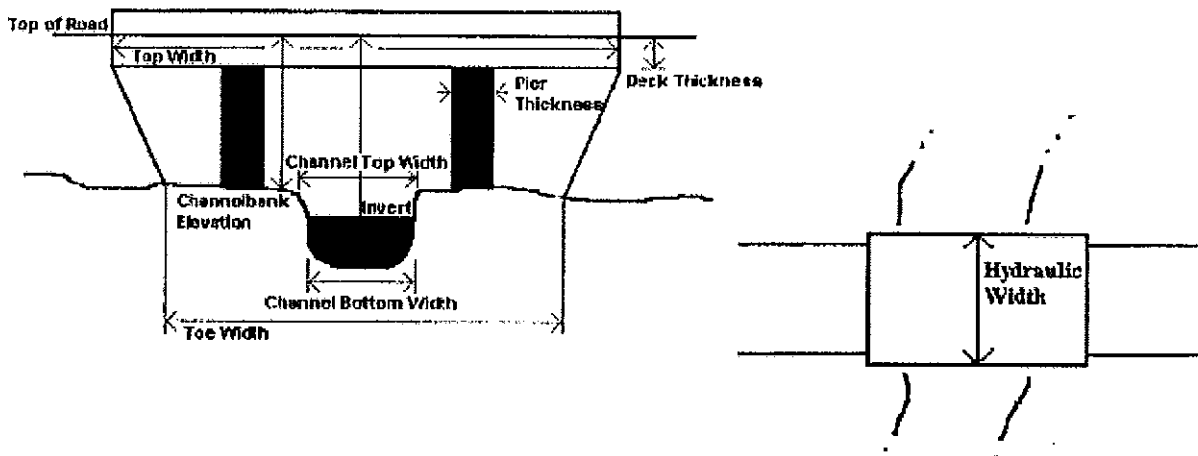


**CHANNEL INFORMATION**

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	

ADDITIONAL CHANNEL INFORMATION

Land Use

Open - some ranches nearby - horses

Vegetative Cover

brush

Bed Material

Sandy gravel

General Channel Condition

undisturbed

Banks

undisturbed

Overbanks

undisturbed

No structures  
apparent

# STRUCTURE SURVEY TEMPLATE







				DATE	3-31-10
ROAD NAME	Wisconsin St			COUNTY	LA
STREAM NAME	Acton Cyn #2			PHOTO ID #	# 842
STRUCTURE #	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)		Not a structure - unable to access			
HIGH WATER MARK (Description, Witness, and Date)		Looking for Wisconsin St - # 842			
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	Wingwalls Type 0°, 45°, 90°
Pier Shape			Bitumus 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

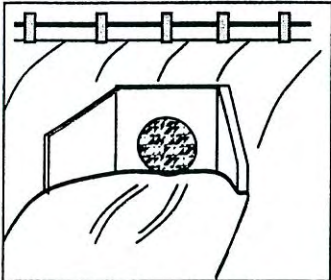


### Types (Shape) of Culvert

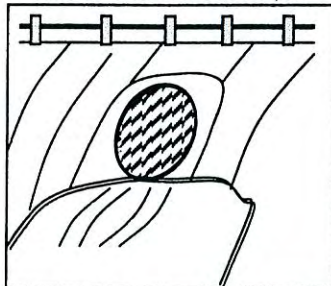
-   
 1) Circular
-   
 2) Rectangle
-   
 3) Elliptical
-   
 4) Con/Span
-   
 5) Elevated Arch
-   
 6) Pipe Arch
- 7) Other

### Inlet/Outlet Type

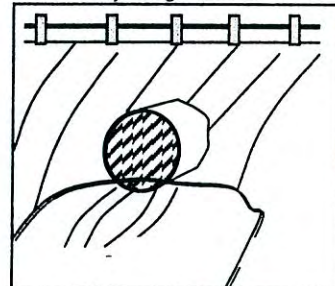
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

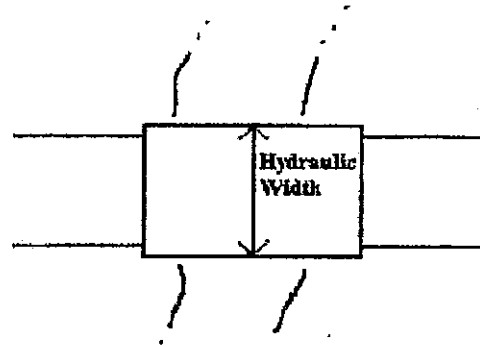
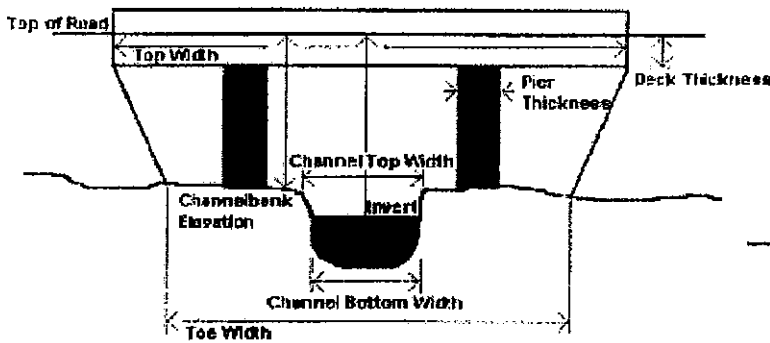


### CHANNEL INFORMATION

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

ADDITIONAL CHANNEL INFORMATION

Land Use

open / Ranch

Vegetative Cover

brush

Bed Material

Sandy gravel

General Channel Condition

undefined

Banks

Undefined

Overbanks

undefine

doesn't appear to  
be any structures.  
Use aerial + topo to  
define the reach.

# STRUCTURE SURVEY TEMPLATE



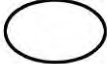



				DATE	7-28-08
ROAD NAME		Aliso Cyn Rd		COUNTY	LA
STREAM NAME		Aliso Cyn		PHOTO ID #	
STRUCTURE #		AC 1		X,Y COORDINATE	
TYPE	LENGTH	SIZE (W X H) & SHAPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Railroad Bridge				Top of Road EL	
SPECIAL NOTE (Conditions, Blockage, etc)		some debris @ ups end			
HIGH WATER 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 <b>5</b> <u>1) Circular</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 <b>Top of Road EL</b> 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

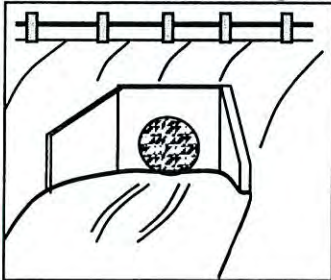


### Types (Shape) of Culvert

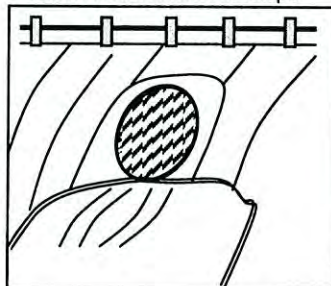
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|---|---|---|
|  |  |  |
| 1) Circular   | 2) Rectangle  | 3) Elliptical   |
|  |  |  |
| 4) Con/Span   | 5) Elevated Arch  | 6) Pipe Arch  |
| 7) Other  |   |   |

### Inlet/Outlet Type

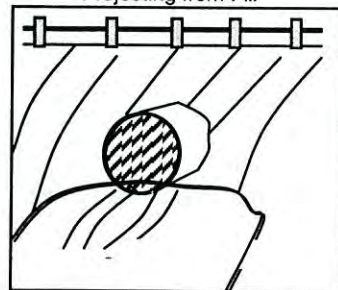
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

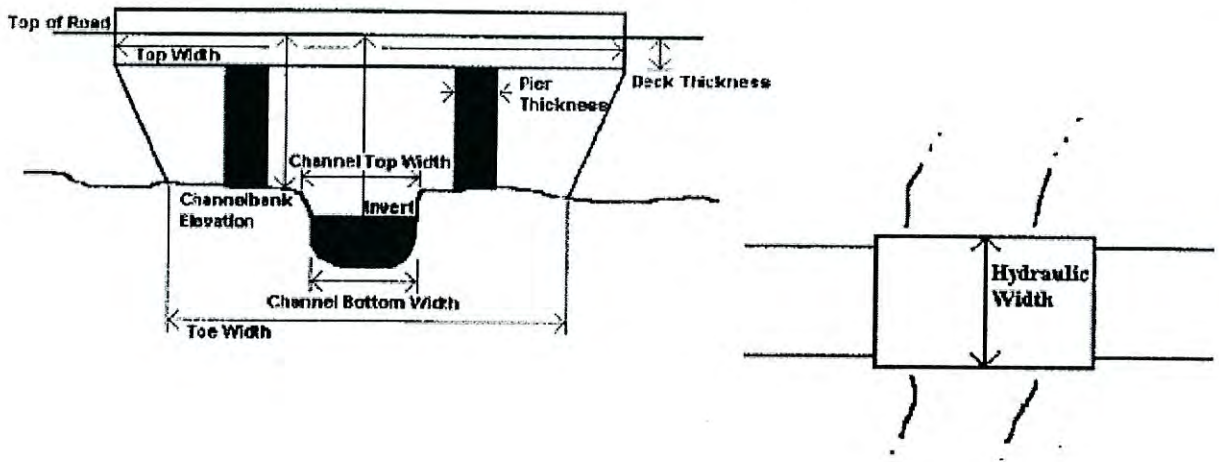


### CHANNEL INFORMATION

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>road likely acts as a grade control during floods</p> <p><i>d/s side</i></p> <p>ROAD</p> <p>5, 4" dia curb</p> <p>grout</p> <p>conc..</p> <p>2-3' above invert</p> <p>inverts @ grade <i>u/s side</i></p> <p>"B3411" stamped in conc.</p>	<p>4 photos.</p>
		<p>mile post 1.40</p>



ADDITIONAL CHANNEL INFORMATION

Land Use

open + light residential v/s

Vegetative Cover

brush

Bed Material

large rocks & boulders + some willows

General Channel Condition

canyon -- well defined

Banks

steep canyon walls

Overbanks

light brush

## STRUCTURE SURVEY TEMPLATE







				DATE	7-28-08
ROAD NAME	Aliso Cyn Rd			COUNTY	LA
STREAM NAME	Aliso Cyn			PHOTO ID #	
STRUCTURE #	no structure - AC 2 <sup>up end of study reach</sup>			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)		recent fire in channel dead trees up of Power Line crossings (see quad)			
HIGH WATER MARK (Description, Witness, and Date)					
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 Wingwalls Type 0°, 45°, 90° Projecting Flush with Slope
Span Bridge		1) Circular	CMP (Corrugated Metal Pipe)		
Pier Shape		2) Rectangle (Span X Rise)	Bitmus Coated		MES (Mitered End Section)
Culvert		3) Elliptical	Steel	From Topo Map (FT.NGVD) or (FT.NAVD)	FES (Flared End Section)
Dam		4) Con/Span	Timber		
Spillway		5) Elevated Arch	Ductile		
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

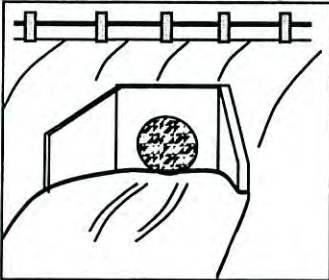


### Types (Shape) of Culvert

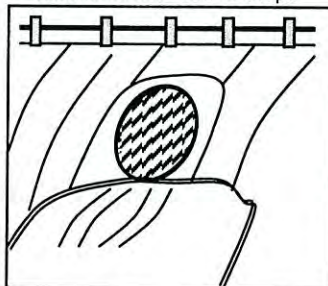
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|---|---|---|
|  |  |  |
| 1) Circular   | 2) Rectangle  | 3) Elliptical   |
|  |  |  |
| 4) Con/Span   | 5) Elevated Arch  | 6) Pipe Arch  |
| 7) Other  |   |   |

### Inlet/Outlet Type

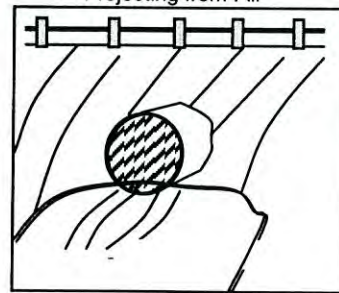
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

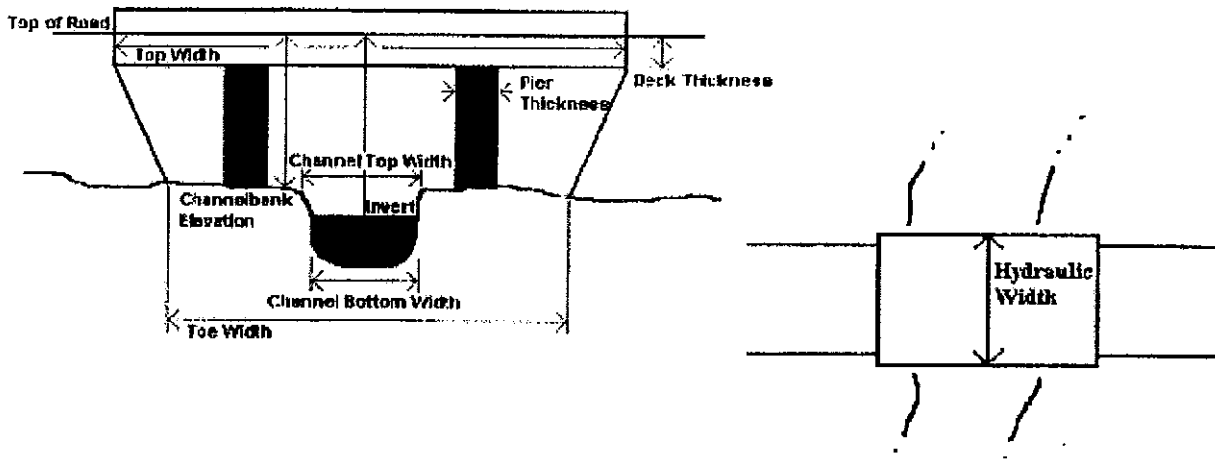


**CHANNEL INFORMATION**

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

ADDITIONAL CHANNEL INFORMATION

Land Use

open, some residential

Vegetative Cover

lots of trees in channel

Bed Material

rocky - boulders.

General Channel Condition

well defined, rocky - obstructed -

Banks

canyon, moderate to steep banks

Overbanks

light brown

# STRUCTURE SURVEY TEMPLATE

				DATE	7-29-08
ROAD NAME	Mountain Springs			COUNTY	LA
STREAM NAME	Acton Canyon 2			PHOTO ID #	
STRUCTURE #	1	ACT 2 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)

No structure near 1/2 end of study reach

**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

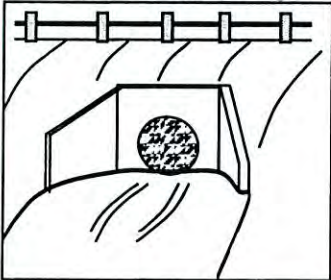


**Types (Shape) of Culvert**

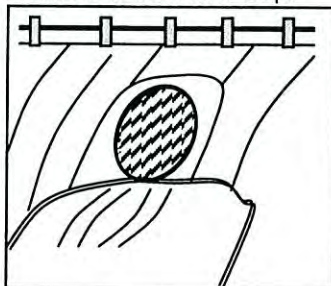
- |             |                  |               |
|-------------|------------------|---------------|
|             |                  |               |
| 1) Circular | 2) Rectangle     | 3) Elliptical |
|             |                  |               |
| 4) Con/Span | 5) Elevated Arch | 6) Pipe Arch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

**Inlet/Outlet Type**

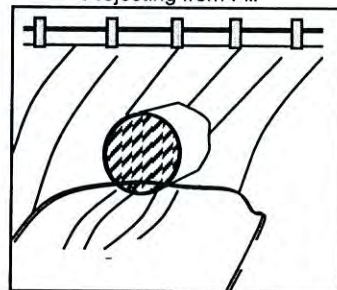
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

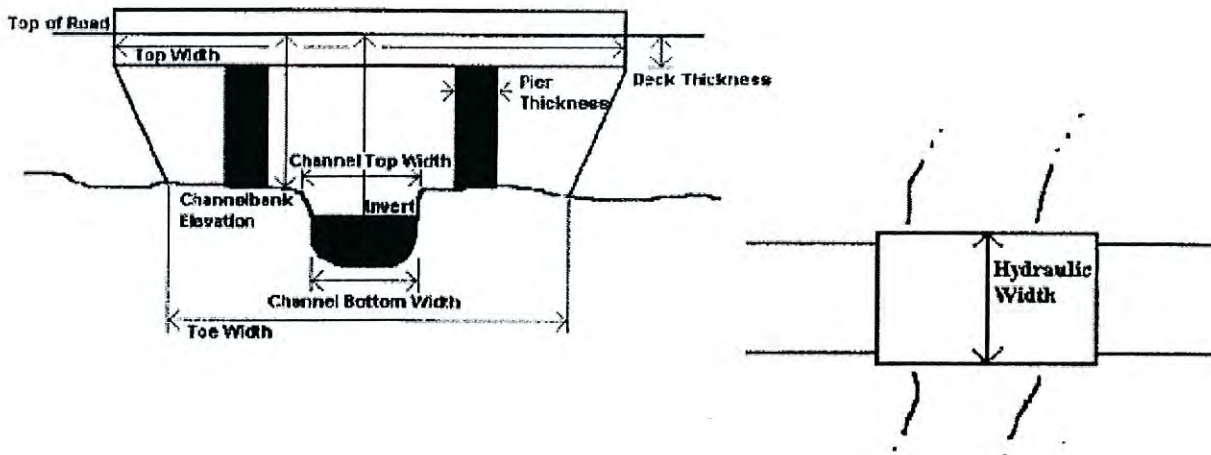


**CHANNEL INFORMATION**

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
	Steep canyon, well defined	1 photo

ADDITIONAL CHANNEL INFORMATION

open + some residential

Land Use

---

brush

Vegetative Cover

---

sand + gravel

Bed Material

---

well defined canyon

General Channel Condition

---

defined by general topo

Banks

---

brush.

Overbanks

---

## STRUCTURE SURVEY TEMPLATE







				<b>DATE</b>	7.29.08
<b>ROAD NAME</b>		Soche Sr.		<b>COUNTY</b>	LA
<b>STREAM NAME</b>		Acton Cyn 2		<b>PHOTO ID #</b>	
<b>STRUCTURE #</b>		ACT2 2		<b>X,Y COORDINATE</b>	
<b>TYPE</b>	<b>LENGTH</b>	<b>SIZE (W X H) &amp; SHAPE</b>	<b>MATERIAL</b>	<b>Road to Bed</b>	<b>INLET/OUTLET TYPE</b>
Railroad Bridge				<b>Top of Road EL</b>	
<b>SPECIAL NOTE (Conditions, Blockage, etc)</b>		dip crossing, dirt road.			
<b>HIGH WATER MARK (Description, Witness, and Date)</b>					
<b>TYPE</b>		<b>CULVERT TYPE</b>	<b>MATERIAL</b>	<b>Road to Bed</b>	<b>INLET/OUTLET TYPE</b>
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  <b>Top of Road EL</b>  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

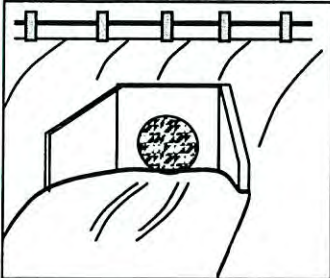


### Types (Shape) of Culvert

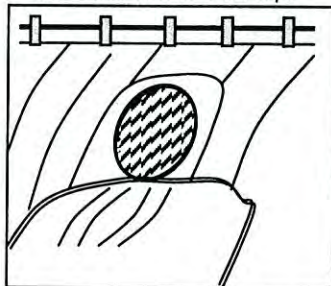
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|---|---|---|
|  |  |  |
| 1) Circular   | 2) Rectangle  | 3) Elliptical   |
|  |  |  |
| 4) Con/Span   | 5) Elevated Arch  | 6) Pipe Arch  |
| 7) Other  |   |   |

### Inlet/Outlet Type

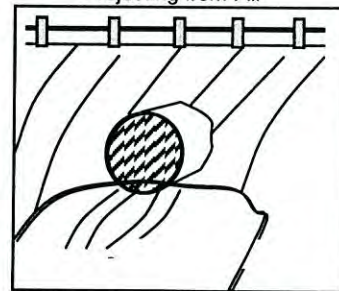
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill



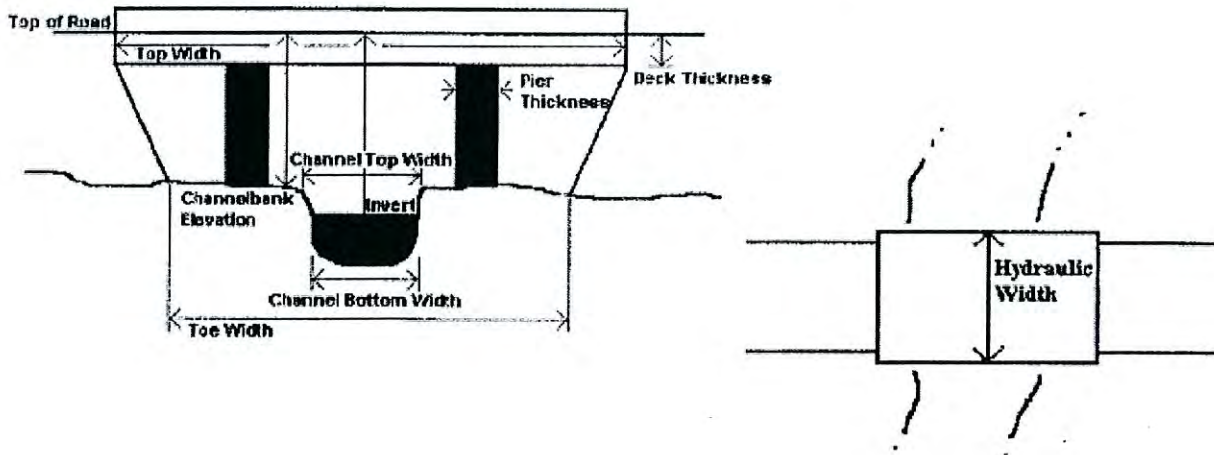


**CHANNEL INFORMATION**

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
	horse pasture v/s d/s	3 photos

ADDITIONAL CHANNEL INFORMATION

Land Use horses - open

---

brush, some eucalyptus trees.

Vegetative Cover

---

sand + gravel

Bed Material

---

no real channel definition - general topo only

General Channel Condition

---

defined by topo

Banks

---

brush + some residential

Overbanks

---

# STRUCTURE SURVEY TEMPLATE

				DATE	7-29-08
ROAD NAME	Acton Cyn Rd			COUNTY	LA
STREAM NAME	Acton Cyn Z			PHOTO ID #	
STRUCTURE #	Act 2 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)		dip - dirt road - main channel 24" CMP - overflow channel			
HIGH WATER MARK (Description, Witness, and Date)					
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 Wingwalls Type 0°, 45°, 90° Projecting Flush with Slope
Span Bridge			CMP (Corrugated Metal Pipe)		
Pier Shape			Bitmus Coated	Top of Road EL	MES (Mitered End Section) FES (Flared End Section)
Culvert		1) Circular	Steel	From Topo Map (FT.NGVD) or (FT.NAVD)	
Dam		2) Rectangle (Span X Rise)	Timber		
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
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- 5) Square nose

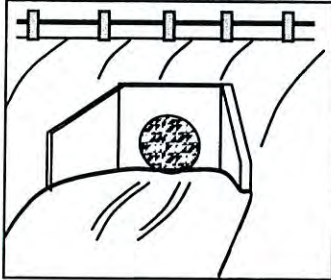


**Types (Shape) of Culvert**

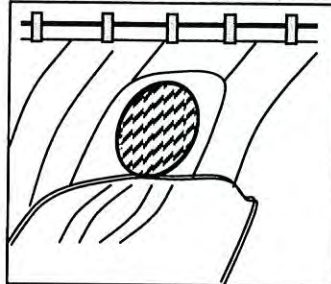
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|             |                  |               |
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|             |                  |               |
| 4) Con/Span | 5) Elevated Arch | 6) Pipe Arch  |
| 7) Other    |                  |               |

**Inlet/Outlet Type**

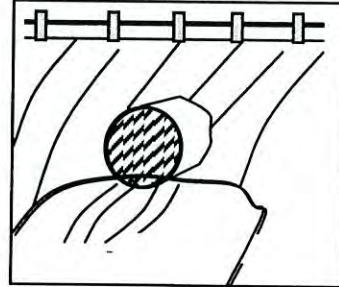
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

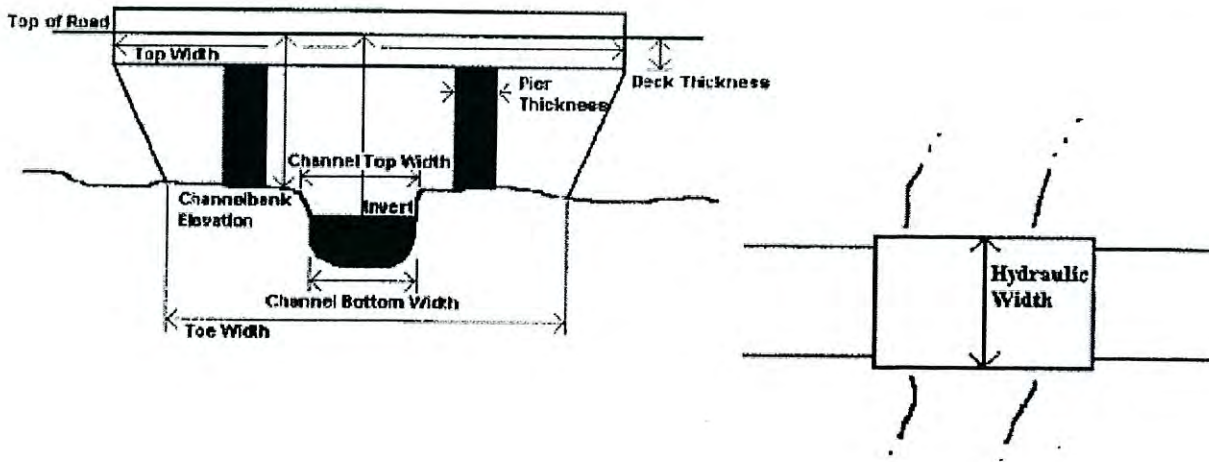


### CHANNEL INFORMATION

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>4 photos</p> <p>note: for 24"                      CMP is at                      a higher elevation                      than the adjacent                      main channel</p>

ADDITIONAL CHANNEL INFORMATION

open + light residential

Land Use

---

brush

Vegetative Cover

---

sand + gravel + some cobbles

Bed Material

---

not well defined

General Channel Condition

---

general topo

Banks

---

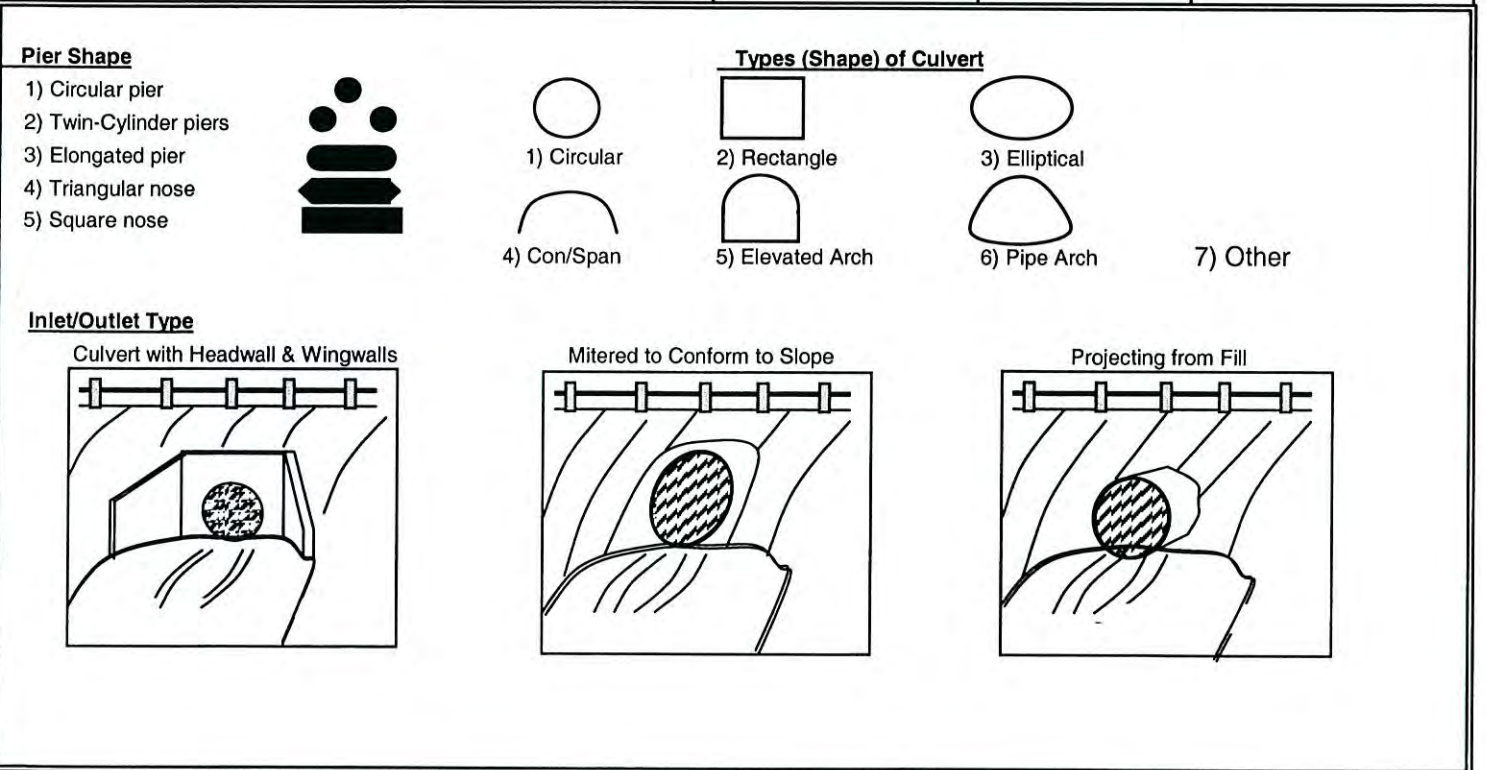
brush

Overbanks

---

# STRUCTURE SURVEY TEMPLATE

				DATE	7-29-08
ROAD NAME	Adams St.			COUNTY	LA
STREAM NAME	Acton Cyn 2			PHOTO ID #	
STRUCTURE #	ACTZ 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)		48" TAA CMP, conc. vertext with guidance @ UKS end			
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>48"</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) Bitum 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)

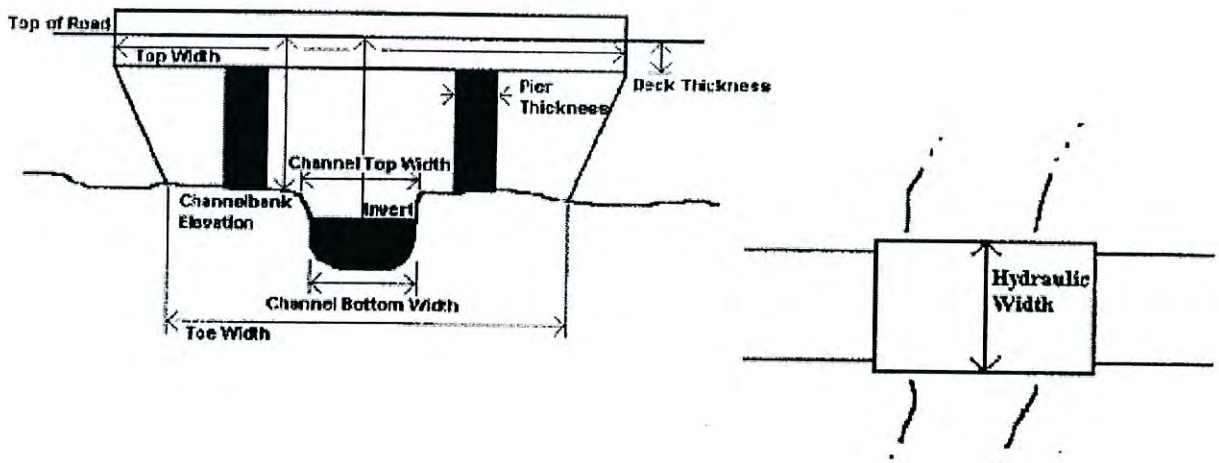


### CHANNEL INFORMATION

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
	Structure placed by property owner @ 2935 Adams St. (end of st.)	

ADDITIONAL CHANNEL INFORMATION

Light residential on R side  
Land Use open on L side

---

Light  
brush  
Vegetative Cover

---

Sand + gravel  
Bed Material

---

Very incised, especially d/s parallel to Adour SA.  
General Channel Condition

---

Vertical, ~ 5' tall, local wire fence to  
Banks stabilize bank on R side  
d/s.

---

brush, <sup>dirt</sup> Road on R ab. d/s ..

---

Overbanks

---



# STRUCTURE SURVEY TEMPLATE







				DATE	
ROAD NAME		Shove Adams ..		COUNTY	
STREAM NAME		Acton Cr 2		PHOTO ID #	
STRUCTURE #		ACT 2 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)		Culvert @ property fence line ~ 1/4 mi ds ob AUG 14			
HIGH WATER MARK (Description, Witness, and Date)					
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 Wingwalls Type 0°, 45°, 90° Projecting Flush with Slope
Span Bridge		1	CMP (Corrugated Metal Pipe)		
Pier Shape		1) Circular 48"	Bitmus Coated	Top of Road EL	MES (Mitered End Section) FES (Flared End Section)
<u>Culvert</u>		2) Rectangle (Span X Rise)	Steel	From Topo Map (FT.NGVD) or (FT.NAVD)	
Dam		3) Elliptical	Timber		
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

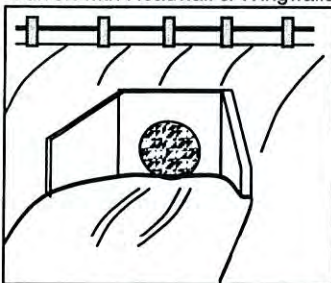


### Types (Shape) of Culvert

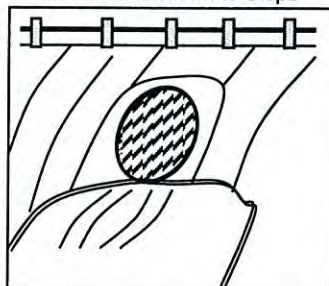
- |   |   |   |
|---|---|---|
|  |  |  |
| 1) Circular   | 2) Rectangle  | 3) Elliptical   |
|  |  |  |
| 4) Con/Span   | 5) Elevated Arch  | 6) Pipe Arch  |
| 7) Other  |   |   |

### Inlet/Outlet Type

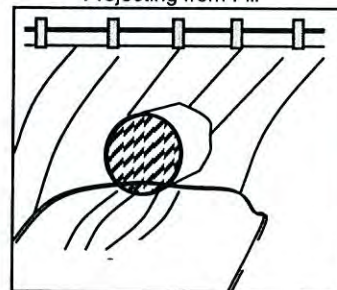
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill



ADDITIONAL CHANNEL INFORMATION

light residential

Land Use

---

brush, some trees

Vegetative Cover

---

sand + gravel

Bed Material

---

very small, very defined..

General Channel Condition

---

mostly vertical

Banks

---

brush..

Overbanks

---

## STRUCTURE SURVEY TEMPLATE







				<b>DATE</b>	7.29.09	
<b>ROAD NAME</b>			Sierra Highway - @ Haciendas Rd.		<b>COUNTY</b>	LA
<b>STREAM NAME</b>			Acton Cyn 2		<b>PHOTO ID #</b>	
<b>STRUCTURE #</b>		ACT 2 4		<b>X,Y COORDINATE</b>		
<b>TYPE</b>	<b>LENGTH</b>	<b>SIZE (W X H) &amp; SHAPE</b>	<b>MATERIAL</b>	<b>Road to Bed</b>	<b>INLET/OUTLET TYPE</b>	
Railroad Bridge				<b>Top of Road EL</b>		
<b>SPECIAL NOTE</b> (Conditions, Blockage, etc)			1/2 side blocked with tumble weeds - debris gate			
<b>HIGH WATER MARK</b> (Description, Witness, and Date)			need plans -- can't access 1/2 side ...			
<b>TYPE</b>		<b>CULVERT TYPE</b>	<b>MATERIAL</b>	<b>Road to Bed</b>	<b>INLET/OUTLET TYPE</b>	
Bridge Span Bridge Pier Shape		Number of Barrels	RCP (Reinforced Concrete Pipe) CMP (Corrugated Metal Pipe) Bitmus Coated	Height from Top of Road to Invert	Headwall Wingwalls Type 0°, 45°, 90° Projecting	
Culvert		1) Circular	Steel	<b>Top of Road EL</b>	Flush with Slope	
Dam		2) Rectangle (Span X Rise)	Timber	From Topo Map (FT.NGVD) or (FT.NAVD)	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

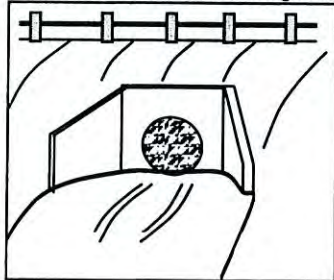


### Types (Shape) of Culvert

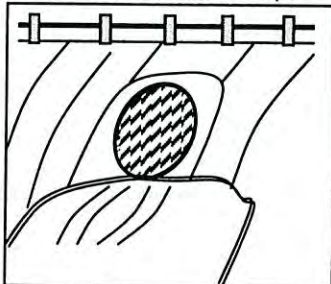
- |   |   |   |
|---|---|---|
|  |  |  |
| 1) Circular   | 2) Rectangle  | 3) Elliptical   |
|  |  |  |
| 4) Con/Span   | 5) Elevated Arch  | 6) Pipe Arch  |
| 7) Other  |   |   |

### Inlet/Outlet Type

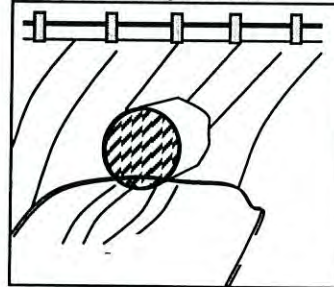
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

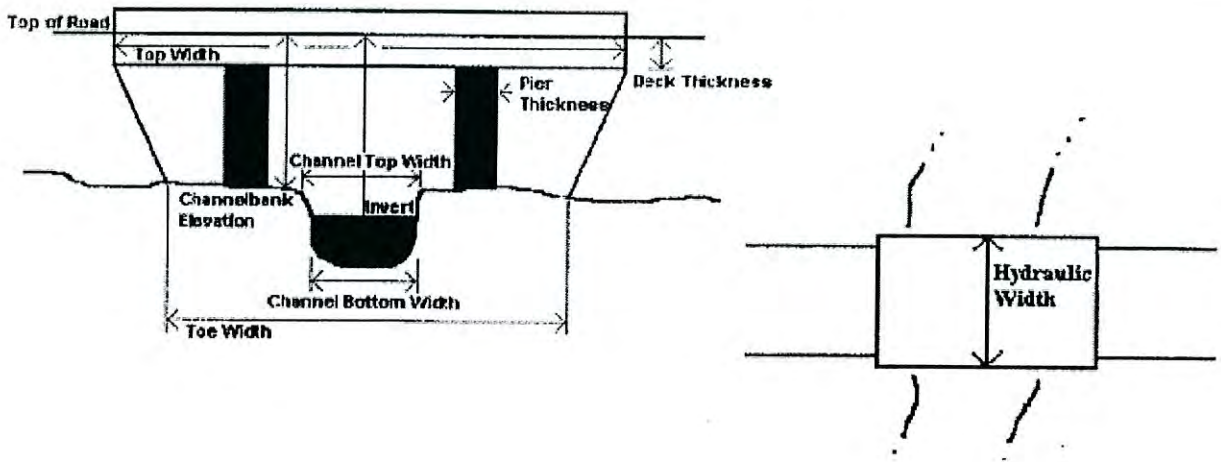


**CHANNEL INFORMATION**

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

**BRIDGE INFORMATION**

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



Name	Description	PHOTOS
	Concrete lined inlet to box culvert	<p>2 photos v/s</p> <p>may be circular pipe at outlet 8' dia ??</p>

ADDITIONAL CHANNEL INFORMATION

U/s - light residential + open  
highway frontage

Land Use

---

brush

Vegetative Cover

---

sand + gravel U/s + short reach of conc. lining U/s of inlet

Bed Material

---

fair -  
defound by storm run on L. side U/s, driveway on R side

General Channel Condition

---

roads on top of mild banks.

Banks

---

roads / light development / open space brush.

Overbanks

---

# STRUCTURE SURVEY TEMPLATE







				DATE	7.29.08
ROAD NAME	Wisconsin St			COUNTY	CA
STREAM NAME	Acton Crn 2			PHOTO ID #	
STRUCTURE #	ACT 2 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)		dip crossing over a dirt road			
HIGH WATER MARK (Description, Witness, and Date)					
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 Wingwalls Type 0°, 45°, 90° Projecting Flush with Slope
Span Bridge			CMP (Corrugated Metal Pipe)		
Pier Shape			Bitmus Coated	From Topo Map (FT.NGVD) or (FT.NAVD)	
Culvert		1) Circular	Steel		
Dam		2) Rectangle (Span X Rise)	Timber		
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

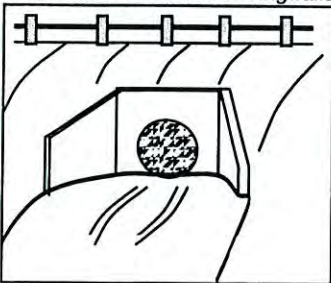


### Types (Shape) of Culvert

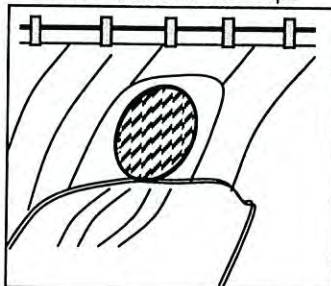
- |   |   |   |
|---|---|---|
|  |  |  |
| 1) Circular   | 2) Rectangle  | 3) Elliptical   |
|  |  |  |
| 4) Con/Span   | 5) Elevated Arch  | 6) Pipe Arch  |
| 7) Other  |   |   |

### Inlet/Outlet Type

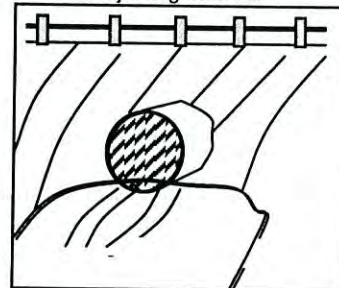
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

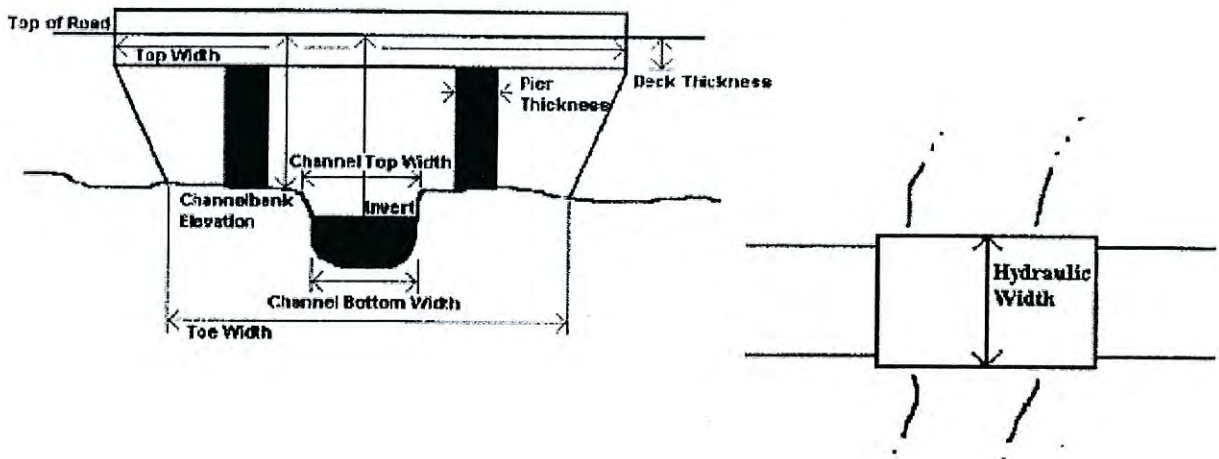


### CHANNEL INFORMATION

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
	residents say road washes out during floods and is impassible	2 photos -

ADDITIONAL CHANNEL INFORMATION

Land Use light residential

Land Use

Vegetative Cover tall brush & trees D/s  
Small brush V/s

Vegetative Cover

Bed Material sand + gravel

Bed Material

General Channel Condition very incised V/s, more of a swale d/s

General Channel Condition

Banks near vertical V/s, mild d/s

Banks

Overbanks brush, some very tall.

Overbanks