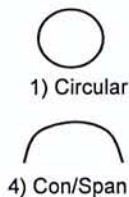


## STRUCTURE SURVEY TEMPLATE

|  |        |   |  |  |  |
|--|--------|---|--|--|--|
|  |        |   |  | DATE   | 11/13/07   |
| ROAD NAME  |        | d/s of BBI Private road   |  | COUNTY   | Ventura  |
| STREAM NAME  |        | Brown Branch  |  | PHOTO ID #   |  |
| STRUCTURE #  |        | B30 → 1   |  | XY COORDINATE  |  |
| TYPE   | LENGTH | SIZE (W X H) & SHAPE  | MATERIAL   | Road to Bed  | INLET/OUTLET TYPE  |
| Railroad Bridge  |        | 2 ~<br>10' x 6'   | concrete   | Top of Road EL   |  |
| SPECIAL NOTE<br>(Conditions, Blockage, etc)  |        | road bridge (private), acts as drop structure   |  |  |  |
| HIGH WATER MARK<br>(Description, Witness, and Date)  |        |   |  |  |  |
| TYPE   |        | CULVERT TYPE  | MATERIAL   | Road to Bed  | INLET/OUTLET TYPE  |
| Bridge<br>Span Bridge<br>Pier Shape<br><u>Culvert</u><br>Dam<br>Spillway<br>Riser Barrel<br>Outlet |        | Number of Barrels<br><br>1) Circular<br><u>2) Rectangle (Span X Rise)</u><br>3) Elliptical<br>4) Con/Span<br>5) Elevated Arch<br>6) Pipe Arch<br>7) Other | RCP (Reinforced Concrete Pipe)<br>CMP (Corrugated Metal Pipe)<br>Bitmus Coated<br>Steel<br>Timber<br>Ductile<br>Clay<br>Masonry Rock | Height from Top of Road to Invert<br><br><u>Top of Road EL</u><br><br>From Topo Map (FT.NGVD) or (FT.NAVD) | Headwall<br>Wingwalls Type 0°, 45°, 90°<br>Projecting<br>Flush with Slope<br>MES (Mitered End Section)<br>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



2) Rectangle



3) Elliptical



5) Elevated Arch

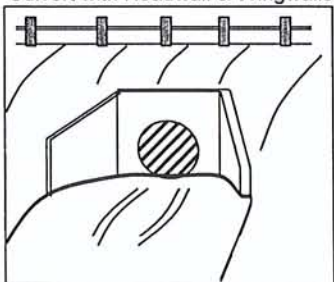


6) Pipe Arch

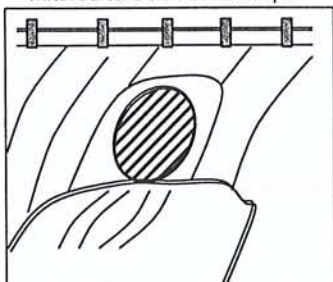
7) Other

### Inlet/Outlet Type

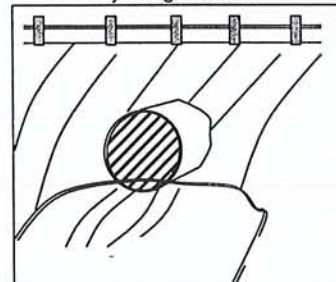
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

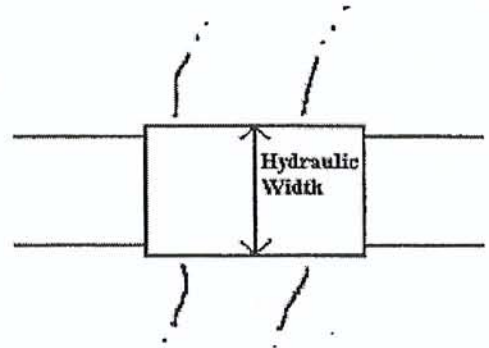
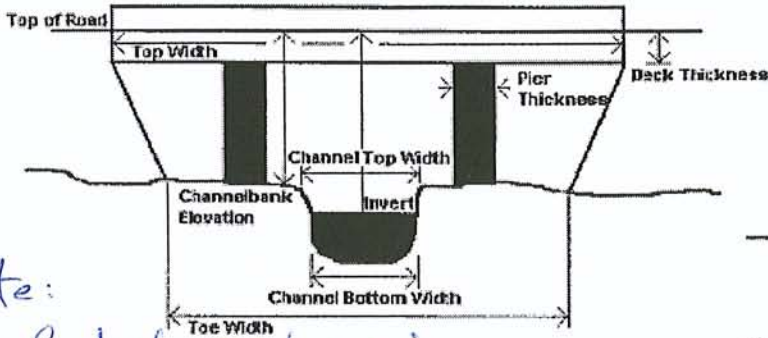


### CHANNEL INFORMATION

| ROAD TO BANK | CHANNEL TOP WIDTH | CHANNEL BOTTOM WIDTH |
|--------------|-------------------|----------------------|
|              |                   |                      |

### BRIDGE INFORMATION

| DECK THICKNESS  | TOP WIDTH       | TOE WIDTH      |
|-----------------|-----------------|----------------|
| 2'              | ~ 20            |                |
| HYDRAULIC WIDTH | NUMBER OF PIERS | PIER THICKNESS |
|                 | ①               | 6"             |



Note:

1 ft of deck thickness is curb



### PHOTOS

Name

Description

| Name | Description | PHOTOS |
|------|-------------|--------|
|      |             |        |

ADDITIONAL CHANNEL INFORMATION

Land Use

---

Vegetative Cover

---

sandy, erodible soil

Bed Material

---

steep walls erosion material

General Channel Condition

---

rt bank ups of bridge looking d/s has steep rock revetment left bank has steep banks w/o revetment. D/s of bridge on rt bank - homemade sheet pile wall

Banks

---


nursery on rt bank looking d/s.  
Residences on left overbank looking d/s.

Overbanks

---

Brokaw Nursery Inc. 647-2262.

# STRUCTURE SURVEY TEMPLATE

|   |  |   |                                |                                      |                             |
|---|--|---|--------------------------------|--------------------------------------|-----------------------------|
|   |  |   |                                | DATE                                 | 11/13/07                    |
| ROAD NAME   |  | RR xing 1/2 mile from mouth of SCR  |                                | COUNTY                               | Ventura                     |
| STREAM NAME   |  | Brown Barranca  |                                | PHOTO ID #                           |                             |
| STRUCTURE #   |  | BB1 → 2   |                                | X, Y COORDINATE                      |                             |
| TYPE  | LENGTH   | SIZE (W X H) & SHAPE  | MATERIAL                       | Road to Bed                          | INLET/OUTLET TYPE           |
| Railroad Bridge                                     | ~ 28'  | ~ 2 -<br>12' x 5' openings  | concrete bottom                | Top of Road EL                       |                             |
| SPECIAL NOTE<br>(Conditions, Blockage, etc)         |  | vertical abutments, 2 ft center pier,<br>concrete lined invert under bridge |                                |                                      |                             |
| HIGH WATER MARK<br>(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                    |
| Span Bridge   |  | Z   | CMP (Corrugated Metal Pipe)    | Top of Road EL                       | Wingwalls Type 0°, 45°, 90° |
| <del>Pier Shape</del>                               | 1.5'   | 1) Circular   | Bitmus Coated                  | From Topo Map (FT.NGVD) or (FT.NAVD) | Projecting                  |
| 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  | 12'  | 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
- 4) Con/Span

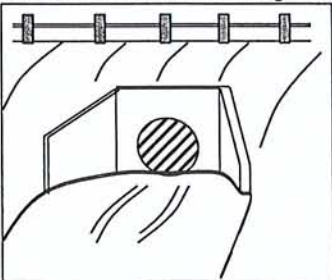
- 2) Rectangle
- 5) Elevated Arch

- 3) Elliptical
- 6) Pipe Arch

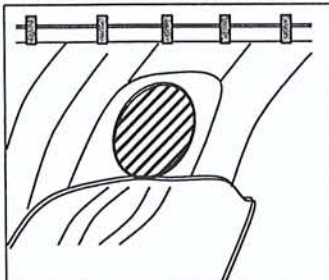
7) Other

### Inlet/Outlet Type

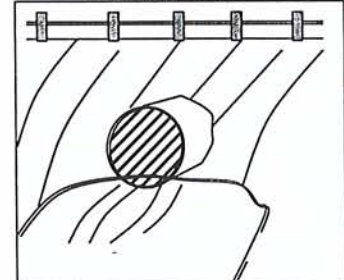
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

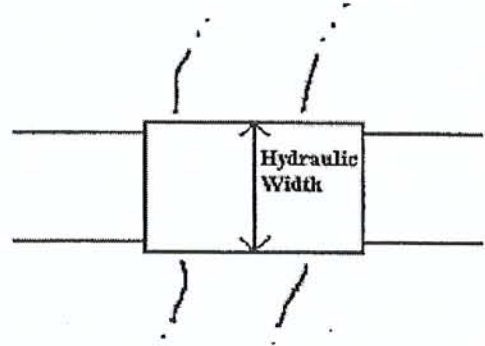
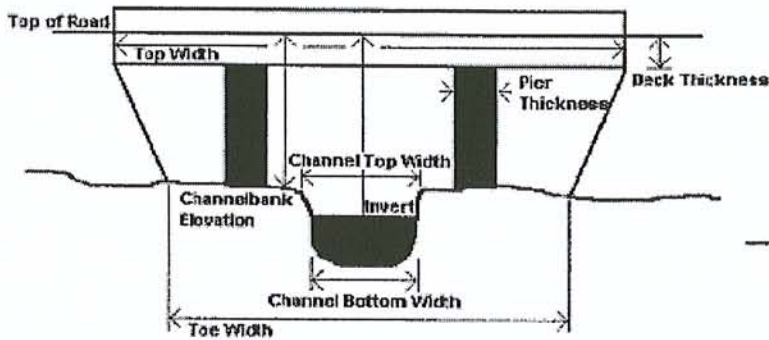


### CHANNEL INFORMATION

| ROAD TO BANK | CHANNEL TOP WIDTH | CHANNEL BOTTOM WIDTH |
|--------------|-------------------|----------------------|
|              |                   |                      |

### BRIDGE INFORMATION

| DECK THICKNESS  | TOP WIDTH       | TOE WIDTH      |
|-----------------|-----------------|----------------|
|                 |                 |                |
| HYDRAULIC WIDTH | NUMBER OF PIERS | PIER THICKNESS |
| ~ 13'           | 1               | 2'             |



### PHOTOS

| Name | Description                         |
|------|-------------------------------------|
|      | drop structure @ d/s end of bridge. |

ADDITIONAL CHANNEL INFORMATION

Nursery + green houses on <sup>overbank</sup> rt. looking downstream.

Land Use

Not much vegetative cover d/s of bridge.  
primarily bare soil, pepper + palm trees  
along left overbank looking d/s

Vegetative Cover

sandy bottom

Bed Material

pretty clean, somewhat prismatic, not much  
vegetation.

General Channel Condition

steep, unprotected erodible banks

Banks

left overbank blocked by a wall looking downstream,  
right bank is lower. grouted rock revetment in  
outside bend looking downstream

Overbanks

# STRUCTURE SURVEY TEMPLATE

|   |        |  |   |   |  |          |
|---|--------|--|---|---|--|----------|
|   |        |  |   |   | DATE   | 11/13/07 |
| ROAD NAME   |        |  | Flatcar bridge upstream of RR bridge<br>BB1 Private road  |   | COUNTY   | Ventura  |
| STREAM NAME   |        |  | Brown Baranca   |   | PHOTO ID #   |          |
| STRUCTURE #   |        |  | BB 2 → 3  |   | X,Y COORDINATE   |          |
| TYPE  | LENGTH | SIZE (W X H) & SHAPE   | MATERIAL  | Road to Bed   | INLET/OUTLET TYPE  |          |
| Railroad Bridge<br>Flatcar bridge   |        |  |   | Top of Road EL  |  |          |
|   |        |  |   |   |  |          |
| SPECIAL NOTE<br>(Conditions, Blockage, etc)   |        |  |   |   |  |          |
| HIGH WATER MARK<br>(Description, Witness, and Date)   |        |  |   |   |  |          |
| TYPE  |        | CULVERT TYPE   | MATERIAL  | Road to Bed   | INLET/OUTLET TYPE  |          |
| Bridge<br>Span Bridge<br>Pier Shape<br>Culvert<br>Dam<br>Spillway<br>Riser Barrel<br>Outlet |        | Number of Barrels<br><br>1) Circular<br>2) Rectangle (Span X Rise)<br>3) Elliptical<br>4) Con/Span<br>5) Elevated Arch<br>6) Pipe Arch<br>7) Other | RCP (Reinforced Concrete Pipe)<br>CMP (Corrugated Metal Pipe)<br>Bitmus Coated<br>Steel<br>Timber<br>Ductile<br>Clay<br>Masonry Rock<br>Flatcar | Height from Top of Road to Invert<br><br>Top of Road EL<br><br>From Topo Map (FT.NGVD) or (FT.NAVD) | Headwall<br>Wingwalls Type 0°, 45°, 90°<br>Projecting<br>Flush with Slope<br>MES (Mitered End Section)<br>FES (Flared End Section) |          |

### Pier Shape

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

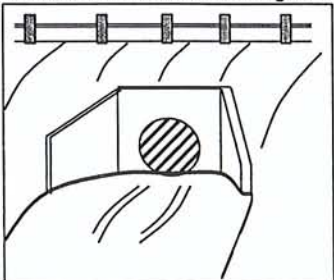


### Types (Shape) of Culvert

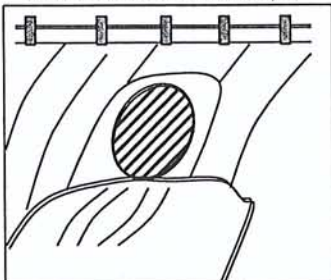
- |                 |                      |                   |
|-----------------|----------------------|-------------------|
| <br>1) Circular | <br>2) Rectangle     | <br>3) Elliptical |
| <br>4) Con/Span | <br>5) Elevated Arch | <br>6) Pipe Arch  |
| 7) Other        |                      |    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

### Inlet/Outlet Type

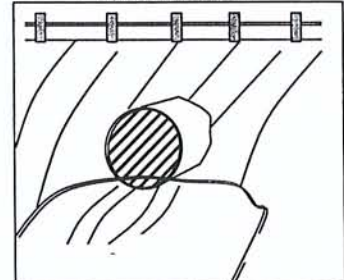
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

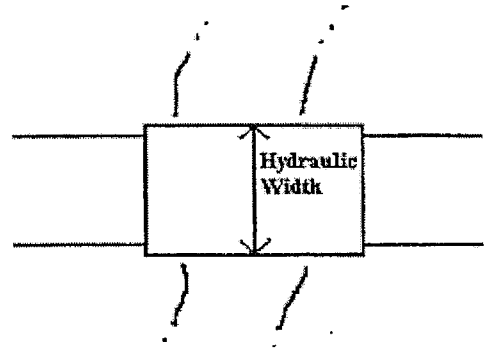
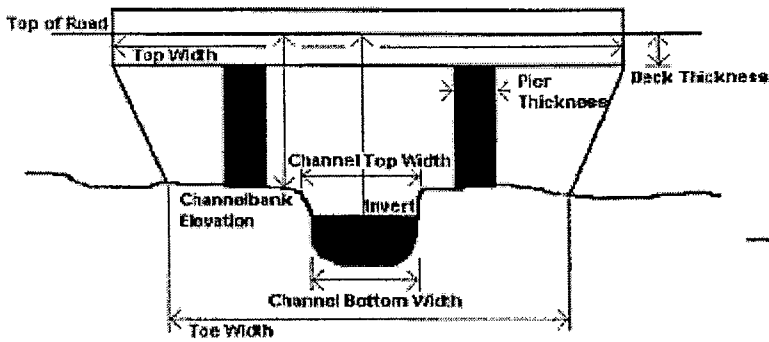


### CHANNEL INFORMATION

| ROAD TO BANK | CHANNEL TOP WIDTH | CHANNEL BOTTOM WIDTH |
|--------------|-------------------|----------------------|
|              |                   |                      |

### BRIDGE INFORMATION

| DECK THICKNESS  | TOP WIDTH       | TOE WIDTH      |
|-----------------|-----------------|----------------|
| 3               |                 |                |
| HYDRAULIC WIDTH | NUMBER OF PIERS | PIER THICKNESS |
|                 | 0               |                |



|      |             | PHOTOS |
|------|-------------|--------|
| Name | Description |        |
|      |             |        |



ADDITIONAL CHANNEL INFORMATION

Land Use

similar to BBI

similar to BBI

Vegetative Cover

similar to BBI

Bed Material

similar to BBI

General Channel Condition

Banks

no wall on left overbank looking d/s

Overbanks

# STRUCTURE SURVEY TEMPLATE

|                                  |        |                                |          |                |                   |
|----------------------------------|--------|--------------------------------|----------|----------------|-------------------|
| <i>Abandoned RR</i>              |        |                                |          | DATE           | 11/13/07          |
| ROAD NAME                        |        | <i>1/3 of Flatcar crossing</i> |          | COUNTY         | Ventura           |
| STREAM NAME                      |        | <i>Brown Barranca</i>          |          | PHOTO ID #     |                   |
| STRUCTURE #                      |        | <i>BB 3 → 4</i>                |          | X,Y COORDINATE |                   |
| TYPE                             | LENGTH | SIZE (W X H) & SHAPE           | MATERIAL | Road to Bed    | INLET/OUTLET TYPE |
| <i>Abandoned Railroad Bridge</i> |        |                                |          | Top of Road/EL |                   |


**SPECIAL NOTE**  
(Conditions, Blockage, etc)

*severe debris accumulation + misaligned abutments constrict conveyance.*

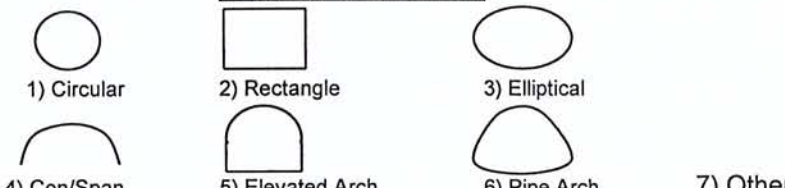
**HIGH WATER MARK**  
(Description, Witness, and Date)

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

**Pier Shape**

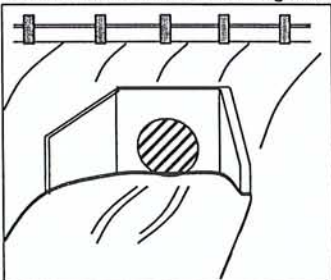
- 1) Circular pier
  - 2) Twin-Cylinder piers
  - 3) Elongated pier
  - 4) Triangular nose
  - 5) Square nose
- 

**Types (Shape) of Culvert**

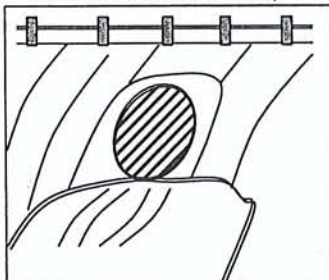
- 1) Circular
  - 2) Rectangle
  - 3) Elliptical
  - 4) Con/Span
  - 5) Elevated Arch
  - 6) Pipe Arch
  - 7) Other
- 

**Inlet/Outlet Type**

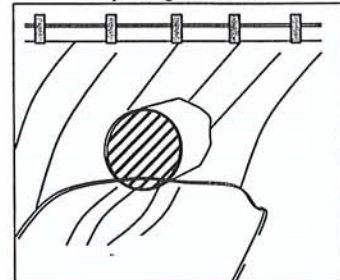
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

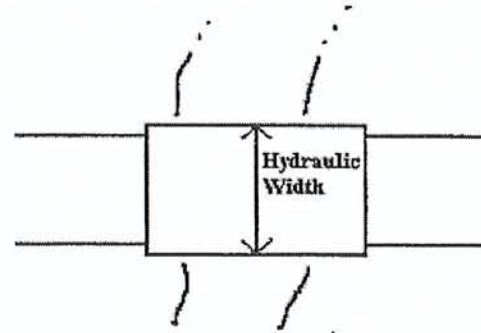
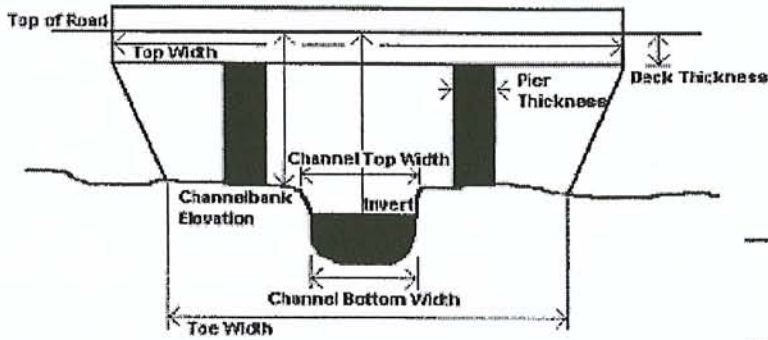


### CHANNEL INFORMATION

| ROAD TO BANK | CHANNEL TOP WIDTH | CHANNEL BOTTOM WIDTH |
|--------------|-------------------|----------------------|
|              |                   |                      |

### BRIDGE INFORMATION

| DECK THICKNESS     | TOP WIDTH                          | TOE WIDTH      |
|--------------------|------------------------------------|----------------|
| 34" to top of cast | ~ 10'                              |                |
| HYDRAULIC WIDTH    | NUMBER OF PIERS                    | PIER THICKNESS |
|                    | 1 pier (5 circular piers in a row) | 1'             |



### PHOTOS

Name

Description



ADDITIONAL CHANNEL INFORMATION

Industry on left ~~bank~~ overbank. new building on it overbank (they are constructing the building now) - looking d/s.

Land Use

Vegetative Cover

~~was~~ recently cleared vegetation.

Bed Material

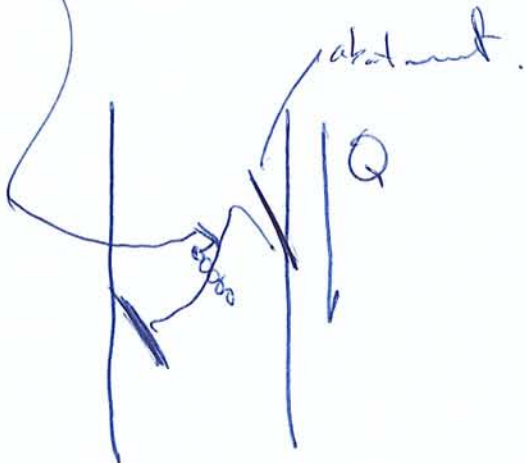
channel u/s of this bridge + d/s of 1559 is blown out.

General Channel Condition

Bridge abutments are misaligned nearly vertical Farled banks

Banks

Overbanks



significant debris on u/s face of bridge.

# STRUCTURE SURVEY TEMPLATE

Telephone Rd







|   |               |  |  |  |  |
|---|---------------|--|--|--|--|
| <b>ROAD NAME</b>  |               |  |  | <b>DATE</b>  |  |
| Wells Rd + Aster Telephone  |               |  |  | 11/13/07   |  |
| <b>STREAM NAME</b>  |               |  |  | <b>COUNTY</b>  |  |
| Brown Barranca  |               |  |  | Ventura  |  |
| <b>STRUCTURE #</b>  |               |  | <b>X, Y COORDINATE</b>   |  |  |
| B134 → 5  |               |  |  |  |  |
| <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>   |
| <del>Railroad Bridge</del><br>Culvert   |               | ~ 22' x 9'   |  | <b>Top of Road EL</b>  |  |
| <b>SPECIAL NOTE</b><br>(Conditions, Blockage, etc)  |               |  |  |  |  |
| <b>HIGH WATER MARK</b><br>(Description, Witness, and Date)                                  |               |  |  |  |  |
| <b>TYPE</b>   |               | <b>CULVERT TYPE</b>  | <b>MATERIAL</b>  | <b>Road to Bed</b>   | <b>INLET/OUTLET TYPE</b>   |
| Bridge<br>Span Bridge<br>Pier Shape<br>Culvert<br>Dam<br>Spillway<br>Riser Barrel<br>Outlet |               | Number of Barrels<br><br>1) Circular<br>2) Rectangle (Span X Rise)<br>3) Elliptical<br>4) Con/Span<br>5) Elevated Arch<br>6) Pipe Arch<br>7) Other | RCP (Reinforced Concrete Pipe)<br>CMP (Corrugated Metal Pipe)<br>Bitmus Coated<br>Steel<br>Timber<br>Ductile<br>Clay<br>Masonry Rock | Height from Top of Road to Invert<br><br><b>Top of Road EL</b><br><br>From Topo Map (FT.NGVD) or (FT.NAVD) | Headwall<br>Wingwalls Type 0°, 45°, 90°<br>Projecting<br>Flush with Slope<br>MES (Mitered End Section)<br>FES (Flared End Section) |

**Pier Shape**

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

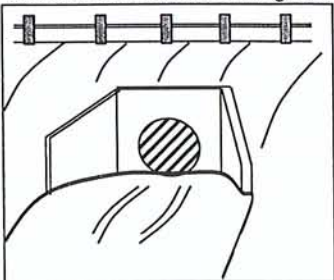


**Types (Shape) of Culvert**

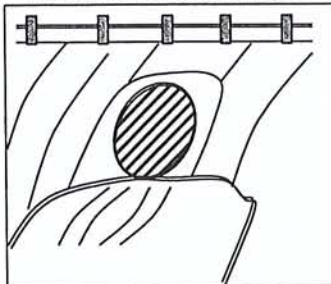
- |   |   |   |
|---|---|---|
|  |  |  |
| 1) Circular   | 2) Rectangle  | 3) Elliptical   |
|  |  |  |
| 4) Con/Span   | 5) Elevated Arch  | 6) Pipe Arch  |
| 7) Other  |   |   |

**Inlet/Outlet Type**

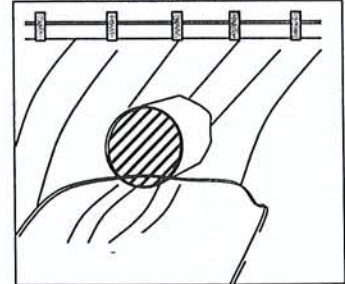
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

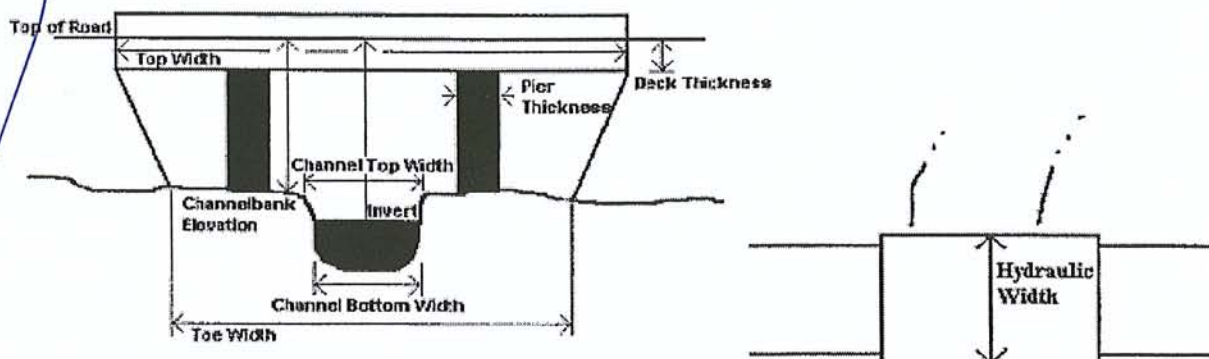


### CHANNEL INFORMATION

| ROAD TO BANK | CHANNEL TOP WIDTH | CHANNEL BOTTOM WIDTH |
|--------------|-------------------|----------------------|
|              |                   |                      |

### BRIDGE INFORMATION

| DECK THICKNESS  | TOP WIDTH       | TOE WIDTH      |
|-----------------|-----------------|----------------|
| 4'              | ~ 22'           |                |
| HYDRAULIC WIDTH | NUMBER OF PIERS | PIER THICKNESS |
|                 | 0               |                |



note benchmark  
 VEN. CO  
 11-132  
 EM 1, 1993

| Name | Description | PHOTOS |
|------|-------------|--------|
|      |             |        |

## ADDITIONAL CHANNEL INFORMATION

Golf course on Rt overbank looking I/S.  
residences + commercial

### Land Use

dense vegetation u/s of culvert.

### Vegetative Cover

concrete bottom under road

### Bed Material

concrete channel entrance to culvert

### General Channel Condition

d/s of culvert, steep unvegetated banks, erodible  
soils + scouring

### Banks

retaining wall on right overbank looking d/s +  
retaining wall on far side of wells Rd looking d/s

### Overbanks

large culvert (~6'  $\phi$ ) entering left side  
of culvert under telegraph Rd. May be  
flow change location.

significant scour @ d/s end of culvert @  
end of grant blanket.

# STRUCTURE SURVEY TEMPLATE

|   |        |  |                                |                                      | DATE                        | 11/13/07 |            |         |
|---|--------|--|--------------------------------|--------------------------------------|-----------------------------|----------|------------|---------|
| ROAD NAME   |        |  |                                |                                      | Wells Rd + Darling RL       |          | COUNTY     | Ventura |
| STREAM NAME   |        |  |                                |                                      | Brown Branch                |          | PHOTO ID # |         |
| STRUCTURE #   |        |  | Road x-ing BB5 → 6             |                                      | X,Y COORDINATE              |          |            |         |
| TYPE  | LENGTH | SIZE (W X H) & SHAPE   | MATERIAL                       | Road to Bed                          | INLET/OUTLET TYPE           |          |            |         |
| Railroad Bridge                                     |        | ~ 25' x 5.5'   | concrete                       | Top of Road EL                       |                             |          |            |         |
| SPECIAL NOTE<br>(Conditions, Blockage, etc)         |        | dense vegetation upstream + immediately downstream in channel - very rough - High pressure gas line under bridge |                                |                                      |                             |          |            |         |
| HIGH WATER MARK<br>(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                    |          |            |         |
| 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                  |          |            |         |
| <u>Culvert</u>                                      |        | 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

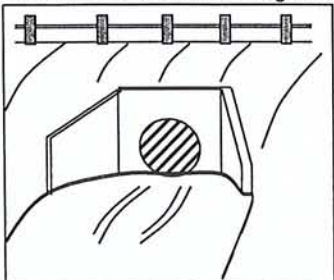


### Types (Shape) of Culvert

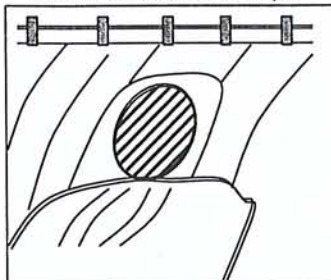
- |                 |                      |                   |
|-----------------|----------------------|-------------------|
| <br>1) Circular | <br>2) Rectangle     | <br>3) Elliptical |
| <br>4) Con/Span | <br>5) Elevated Arch | <br>6) Pipe Arch  |
| 7) Other        |                      |    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

### Inlet/Outlet Type

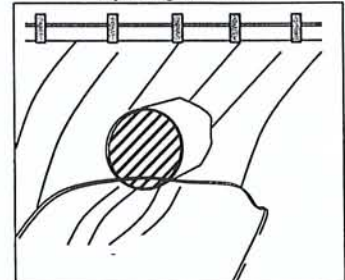
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill



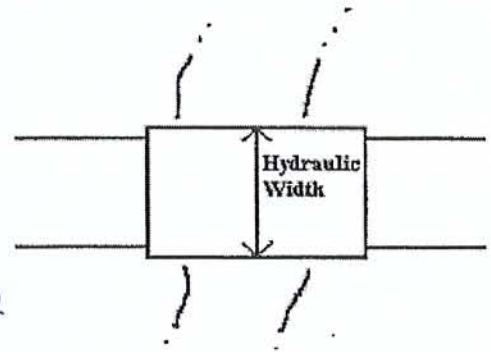
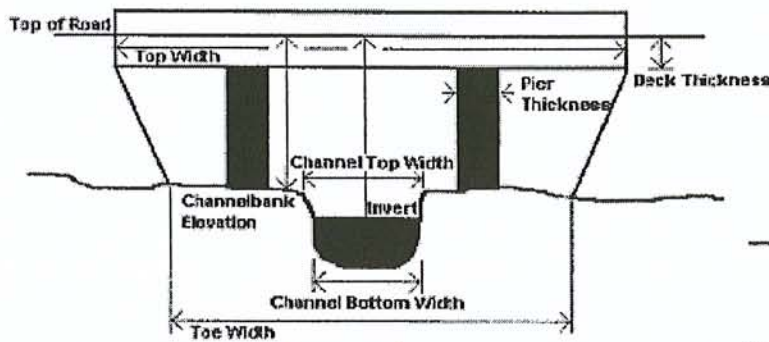


### CHANNEL INFORMATION

| ROAD TO BANK | CHANNEL TOP WIDTH | CHANNEL BOTTOM WIDTH |
|--------------|-------------------|----------------------|
|              |                   |                      |

### BRIDGE INFORMATION

| DECK THICKNESS  | TOP WIDTH       | TOE WIDTH      |
|-----------------|-----------------|----------------|
| 4'              | 25'             |                |
| HYDRAULIC WIDTH | NUMBER OF PIERS | PIER THICKNESS |
|                 | 0               |                |



fence (31" wood, obstruction)  
 4'  
 high pressure gas line obstructing flow

### PHOTOS

Name

Description

|  |  |
|--|--|
|  |  |
|--|--|

ADDITIONAL CHANNEL INFORMATION

Residences on right overbank u/s of bridge. golf course on rt overbank d/s of bridge  
open land on left overbank

Land Use

Very dense vegetation in channel  
A 70.1,

Vegetative Cover

willows, cat tails, + palm, tree tobacco

sandy, erodible soil on banks, mud in bottom of culvert

Bed Material

General Channel Condition

steep banks, similar to d/s, but with vegetation

Banks

Overbanks

# STRUCTURE SURVEY TEMPLATE







|   |               |  |  |   |  |
|---|---------------|--|--|---|--|
| <b>DATE</b> 11/13   |               |  |  |   |  |
| <b>ROAD NAME</b> 1/3 of darling Rd, Henderson Rd  |               |  | <b>COUNTY</b> Ventura  |   |  |
| <b>STREAM NAME</b> Brown Branch   |               |  | <b>PHOTO ID #</b>  |   |  |
| <b>STRUCTURE #</b> BB6 → 7  |               | <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<br><i>road side</i>   |               | 3- 8x4.5   | concrete   | Top of Road EL  |  |
| <b>SPECIAL NOTE</b><br>(Conditions, Blockage, etc)  |               |  |  |   |  |
| <b>HIGH WATER MARK</b><br>(Description, Witness, and Date)                                  |               |  |  |   |  |
| <b>TYPE</b>   |               | <b>CULVERT TYPE</b>  | <b>MATERIAL</b>  | <b>Road to Bed</b>  | <b>INLET/OUTLET TYPE</b>   |
| Bridge<br>Span Bridge<br>Pier Shape<br>Culvert<br>Dam<br>Spillway<br>Riser Barrel<br>Outlet |               | Number of Barrels<br><br>1) Circular<br>2) Rectangle (Span X Rise)<br>3) Elliptical<br>4) Con/Span<br>5) Elevated Arch<br>6) Pipe Arch<br>7) Other | RCP (Reinforced Concrete Pipe)<br>CMP (Corrugated Metal Pipe)<br>Bitmus Coated<br>Steel<br>Timber<br>Ductile<br>Clay<br>Masonry Rock | Height from Top of Road to Invert<br><br>Top of Road EL<br><br>From Topo Map (FT.NGVD) or (FT.NAVD) | Headwall<br>Wingwalls Type 0°, 45°, 90°<br>Projecting<br>Flush with Slope<br>MES (Mitered End Section)<br>FES (Flared End Section) |

**Pier Shape**

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

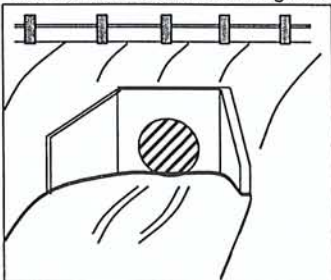


**Types (Shape) of Culvert**

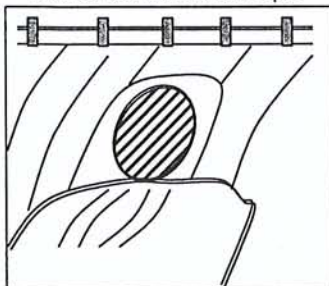
- |   |   |   |
|---|---|---|
|  |  |  |
| 1) Circular   | 2) Rectangle  | 3) Elliptical   |
|  |  |  |
| 4) Con/Span   | 5) Elevated Arch  | 6) Pipe Arch  |
| 7) Other  |   |   |

**Inlet/Outlet Type**

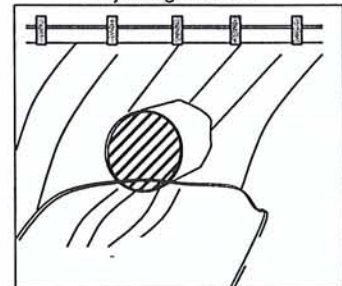
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

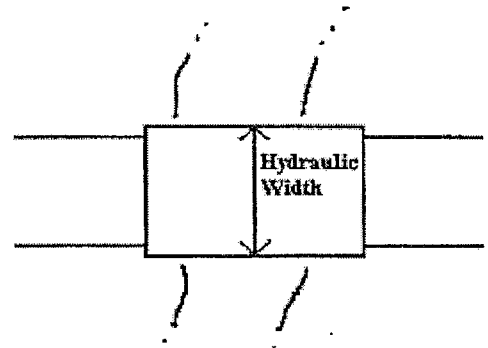
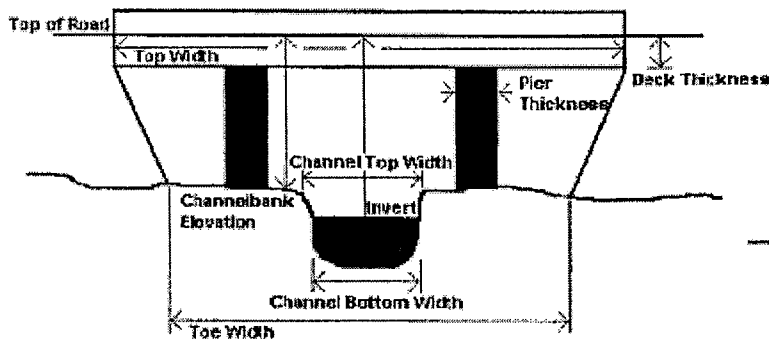


### CHANNEL INFORMATION

| ROAD TO BANK | CHANNEL TOP WIDTH | CHANNEL BOTTOM WIDTH |
|--------------|-------------------|----------------------|
|              |                   |                      |

### BRIDGE INFORMATION

| DECK THICKNESS  | TOP WIDTH       | TOE WIDTH        |
|-----------------|-----------------|------------------|
|                 |                 |                  |
| HYDRAULIC WIDTH | NUMBER OF PIERS | PIER THICKNESS   |
|                 | 2               | 6" <sup>10</sup> |



### PHOTOS

Name

Description

| Name | Description | PHOTOS |
|------|-------------|--------|
|      |             |        |

ADDITIONAL CHANNEL INFORMATION

new houses on rt overbank @ ups entrance to culvert  
baseball field on rt. overbank @ d/s side of culvert.  
open space on left overbank

Land Use

Vegetative Cover

Bed Material

dense channel vegetation

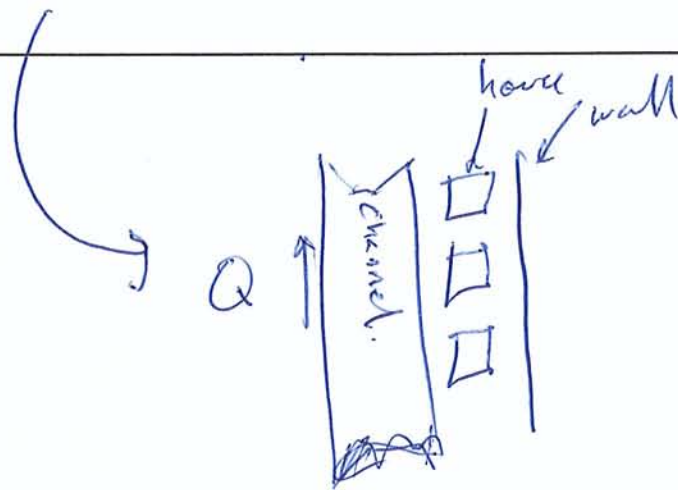
General Channel Condition

rock revetment on left bank d/s to BBS (at Darling Rd).  
concrete lined banks u/s of culvert to 126 Freeway  
culvert

Banks

retaining wall along rt overbank to the right of  
the first row of houses

Overbanks



# STRUCTURE SURVEY TEMPLATE

|   |               |                                 |                 |                    |                          |
|---|---------------|---------------------------------|-----------------|--------------------|--------------------------|
| <b>DATE</b>                                 |               |                                 |                 | 11/13/07           |                          |
| <b>ROAD NAME</b>                            |               |                                 |                 | <b>COUNTY</b>      |                          |
| <del>Highway</del> Ramp to Hwy 126. (south) |               |                                 |                 | Ventura            |                          |
| <b>STREAM NAME</b>                          |               |                                 |                 | <b>PHOTO ID #</b>  |                          |
| Brown Branch                                |               |                                 |                 |                    |                          |
| <b>STRUCTURE #</b>                          |               | <b>X,Y COORDINATE</b>           |                 |                    |                          |
| BB7 → 8                                     |               |                                 |                 |                    |                          |
| <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                             |               | 3 ~ 8' x 4.5'                   |                 | 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<br>Span Bridge<br>Pier Shape<br>Culvert<br>Dam<br>Spillway<br>Riser Barrel<br>Outlet | Number of Barrels<br><br>1) Circular<br>2) Rectangle (Span X Rise)<br>3) Elliptical<br>4) Con/Span<br>5) Elevated Arch<br>6) Pipe Arch<br>7) Other | RCP (Reinforced Concrete Pipe)<br>CMP (Corrugated Metal Pipe)<br>Bitmus Coated<br>Steel<br>Timber<br>Ductile<br>Clay<br>Masonry Rock | Height from Top of Road to Invert<br><br>Top of Road EL<br><br>From Topo Map (FT.NGVD) or (FT.NAVD) | Headwall<br>Wingwalls Type 0°, 45°, 90°<br>Projecting<br>Flush with Slope<br>MES (Mitered End Section)<br>FES (Flared End Section) |

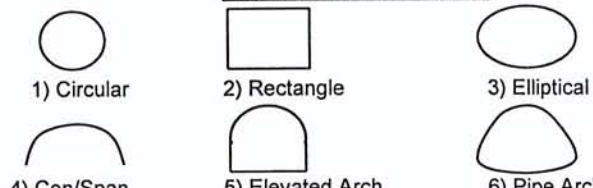
**Pier Shape**

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



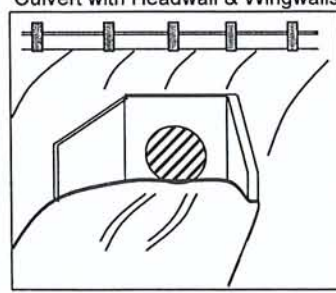
**Types (Shape) of Culvert**

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

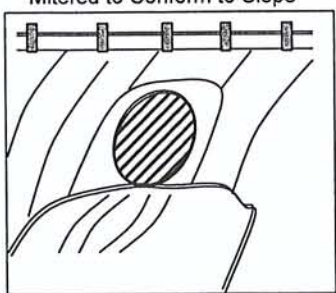


**Inlet/Outlet Type**

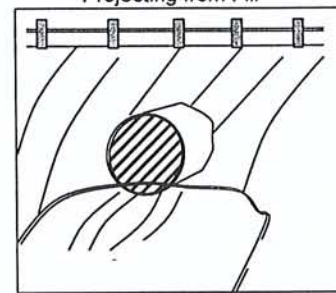
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

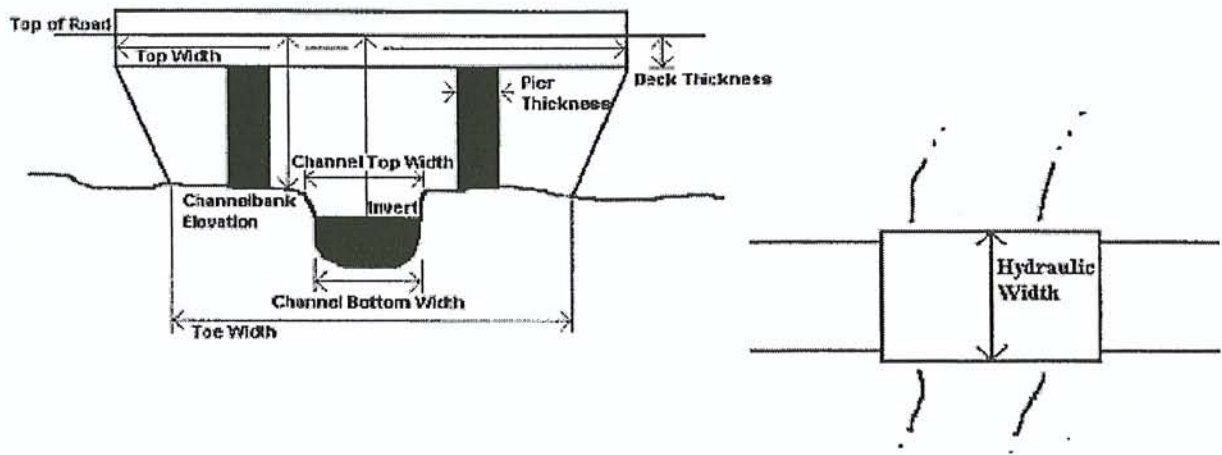


### CHANNEL INFORMATION

| ROAD TO BANK | CHANNEL TOP WIDTH | CHANNEL BOTTOM WIDTH |
|--------------|-------------------|----------------------|
|              |                   |                      |

### BRIDGE INFORMATION

| DECK THICKNESS  | TOP WIDTH       | TOE WIDTH      |
|-----------------|-----------------|----------------|
|                 |                 |                |
| HYDRAULIC WIDTH | NUMBER OF PIERS | PIER THICKNESS |
|                 | 2               | 6"             |



### PHOTOS

Name

Description

similar to BB6

ADDITIONAL CHANNEL INFORMATION

Land Use

Same as TBC

Vegetative Cover

Bottom TBC + TBC 7 primarily  
cutbanks → these will flatten for  
high flows  $n \approx 0.04$  for  
channel.

Bed Material

General Channel Condition

Banks

Overbanks



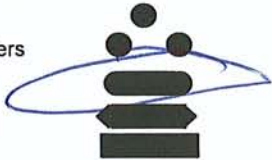


# STRUCTURE SURVEY TEMPLATE







|  |        |  |  |   |  |         |
|--|--------|--|--|---|--|---------|
|  |        |  |  |   | DATE   | 11/13   |
| ROAD NAME  |        |  | Avg 126 culvert (under 126)  |   | COUNTY   | Ventura |
| STREAM NAME  |        |  | Brown Barranca   |   | PHOTO ID #   |         |
| STRUCTURE #  |        |  | BB8 → 9  |   | X,Y COORDINATE   |         |
| TYPE   | LENGTH | SIZE (W X H) & SHAPE   | MATERIAL   | Road to Bed   | INLET/OUTLET TYPE  |         |
| Railroad Bridge  |        | 3- 8' x <del>6'</del><br>6'  |  | Top of Road EL  |  |         |
| SPECIAL NOTE<br>(Conditions, Blockage, etc)  |        |  | severe sediment buildup in left and right barrels. More than 1/2 of each barrel (left + right) is blocked. Center Barrel is clear    |   |  |         |
| HIGH WATER MARK<br>(Description, Witness, and Date)  |        |  |  |   |  |         |
| TYPE   |        | CULVERT TYPE   | MATERIAL   | Road to Bed   | INLET/OUTLET TYPE  |         |
| Bridge<br>Span Bridge<br>Pier Shape<br><u>Culvert</u><br>Dam<br>Spillway<br>Riser Barrel<br>Outlet |        | Number of Barrels<br><u>3</u><br>1) Circular<br>2) Rectangle (Span X Rise)<br>3) Elliptical<br>4) Con/Span<br>5) Elevated Arch<br>6) Pipe Arch<br>7) Other | RCP (Reinforced Concrete Pipe)<br>CMP (Corrugated Metal Pipe)<br>Bitmus Coated<br>Steel<br>Timber<br>Ductile<br>Clay<br>Masonry Rock | Height from Top of Road to Invert<br><br>Top of Road EL<br><br>From Topo Map (FT.NGVD) or (FT.NAVD) | Headwall<br>Wingwalls Type 0°, 45°, 90°<br>Projecting<br>Flush with Slope<br>MES (Mitered End Section)<br>FES (Flared End Section) |         |

### Pier Shape

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

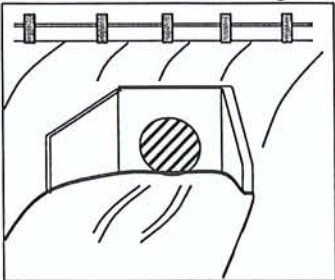


### Types (Shape) of Culvert

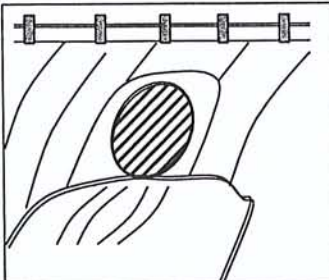
- |   |   |   |
|---|---|---|
|  |  |  |
| 1) Circular   | 2) Rectangle  | 3) Elliptical   |
|  |  |  |
| 4) Con/Span   | 5) Elevated Arch  | 6) Pipe Arch  |
| 7) Other  |   |   |

### Inlet/Outlet Type

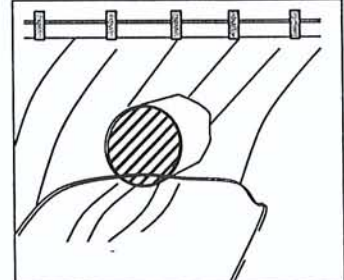
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

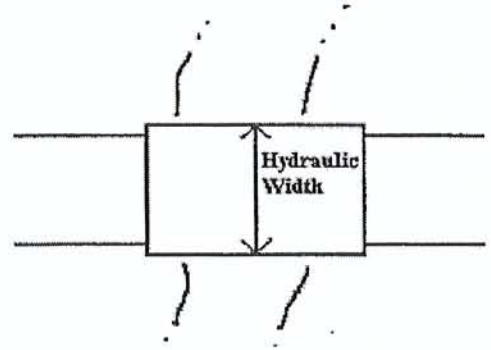
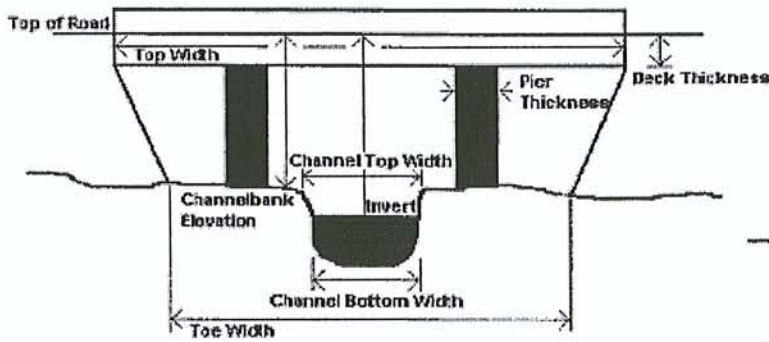


### CHANNEL INFORMATION

| ROAD TO BANK | CHANNEL TOP WIDTH | CHANNEL BOTTOM WIDTH |
|--------------|-------------------|----------------------|
|              |                   |                      |

### BRIDGE INFORMATION

| DECK THICKNESS  | TOP WIDTH       | TOE WIDTH      |
|-----------------|-----------------|----------------|
|                 |                 |                |
| HYDRAULIC WIDTH | NUMBER OF PIERS | PIER THICKNESS |
|                 | 2               | 6"             |



### PHOTOS

Name

Description

| Name | Description | PHOTOS |
|------|-------------|--------|
|      |             |        |

ADDITIONAL CHANNEL INFORMATION

Land Use

See photo

Vegetative Cover

Bed Material

General Channel Condition

concrete lined blwn 1337 + 1338

Banks

Overbanks

# STRUCTURE SURVEY TEMPLATE

Ramp to HWY 126 (north)

|  |  |   |            |   |  |
|--|--|---|------------|---|--|
| ROAD NAME  |  |   |            | DATE  |  |
| Wells Rd + <del>Abraham Rd</del><br>HWY 126 <del>exit</del> entrance (westbound)   |  |   |            | 11/13/07  |  |
| STREAM NAME  |  |   |            | COUNTY  |  |
|  |  |   |            | Ventura   |  |
| STRUCTURE #  |  |   | PHOTO ID # |   |  |
| BIS 9 → 10   |  |   |            |   |  |
| TYPE   |  | LENGTH  |            | SIZE (W X H) & SHAPE  |  |
| culvert<br>Railroad Bridge   |  |   |            | 2 - 8' x 6'   |  |
| MATERIAL   |  |   |            | Road to Bed   |  |
|  |  |   |            |   |  |
| INLET/OUTLET TYPE  |  |   |            | Top of Road EL  |  |
|  |  |   |            |   |  |
| SPECIAL NOTE<br>(Conditions, Blockage, etc)  |  |   |            |   |  |
|  |  |   |            |   |  |
| HIGH WATER MARK<br>(Description, Witness, and Date)  |  |   |            |   |  |
|  |  |   |            |   |  |
| TYPE   |  | CULVERT TYPE  |            | MATERIAL  |  |
| Bridge<br>Span Bridge<br>Pier Shape<br><u>Culvert</u><br>Dam<br>Spillway<br>Riser Barrel<br>Outlet                                 |  | Number of Barrels<br>Z<br>1) Circular<br>2) Rectangle (Span X Rise)<br>3) Elliptical<br>4) Con/Span<br>5) Elevated Arch<br>6) Pipe Arch<br>7) Other |            | RCP (Reinforced Concrete Pipe)<br>CMP (Corrugated Metal Pipe)<br>Bitumus Coated<br>Steel<br>Timber<br>Ductile<br>Clay<br>Masonry Rock |  |
|  |  |   |            | Road to Bed   |  |
|  |  |   |            | Height from Top of Road to Invert   |  |
|  |  |   |            | Top of Road EL  |  |
|  |  |   |            | From Topo Map (FT.NGVD) or (FT.NAVD)  |  |
| INLET/OUTLET TYPE  |  |   |            |   |  |
| Headwall<br>Wingwalls Type 0°, 45°, 90°<br>Projecting<br>Flush with Slope<br>MES (Mitered End Section)<br>FES (Flared End Section) |  |   |            |   |  |

### Pier Shape

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

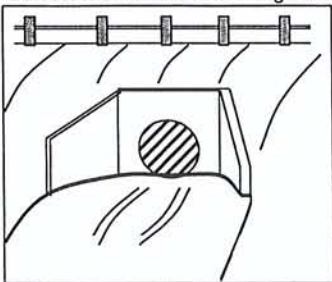


### Types (Shape) of Culvert

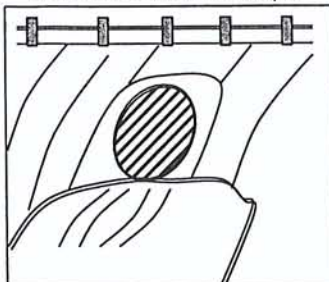
- |             |                  |               |
|-------------|------------------|---------------|
|             |                  |               |
| 1) Circular | 2) Rectangle     | 3) Elliptical |
|             |                  |               |
| 4) Con/Span | 5) Elevated Arch | 6) Pipe Arch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

### Inlet/Outlet Type

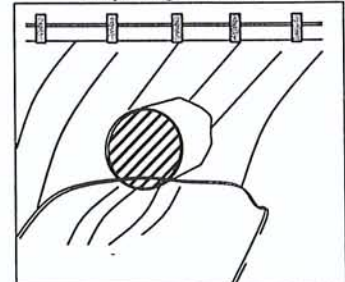
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

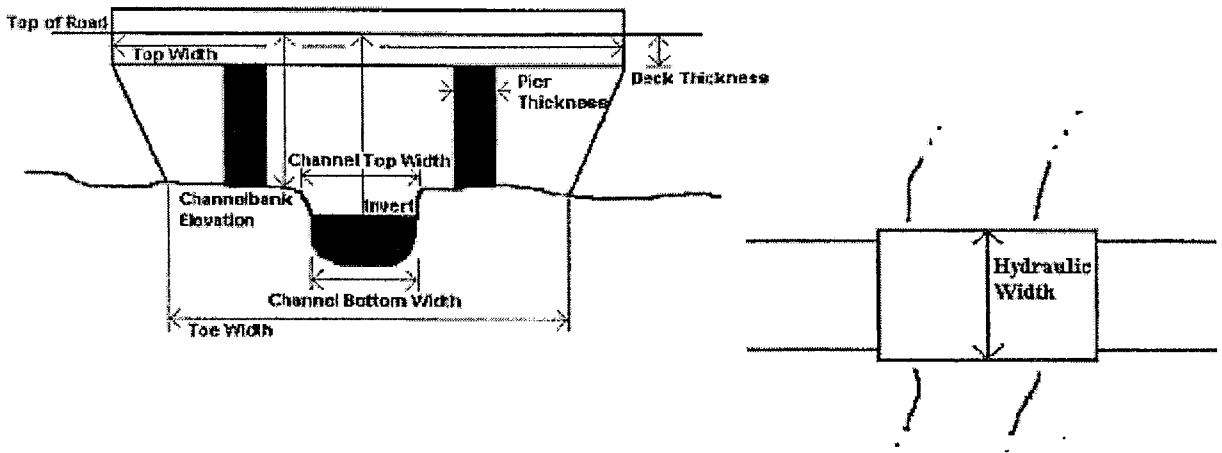


### CHANNEL INFORMATION

| ROAD TO BANK | CHANNEL TOP WIDTH | CHANNEL BOTTOM WIDTH |
|--------------|-------------------|----------------------|
|              |                   |                      |

### BRIDGE INFORMATION

| DECK THICKNESS  | TOP WIDTH       | TOE WIDTH      |
|-----------------|-----------------|----------------|
|                 |                 |                |
| HYDRAULIC WIDTH | NUMBER OF PIERS | PIER THICKNESS |
|                 | 1               | 6"             |



### PHOTOS

Name

Description

|  |  |
|--|--|
|  |  |
|--|--|

ADDITIONAL CHANNEL INFORMATION

Land Use

See photos

channel bottom vegetated ups of BBB -  
some larger trees ups of BBB on  
either side of bank.

Vegetative Cover

concrete

Bed Material

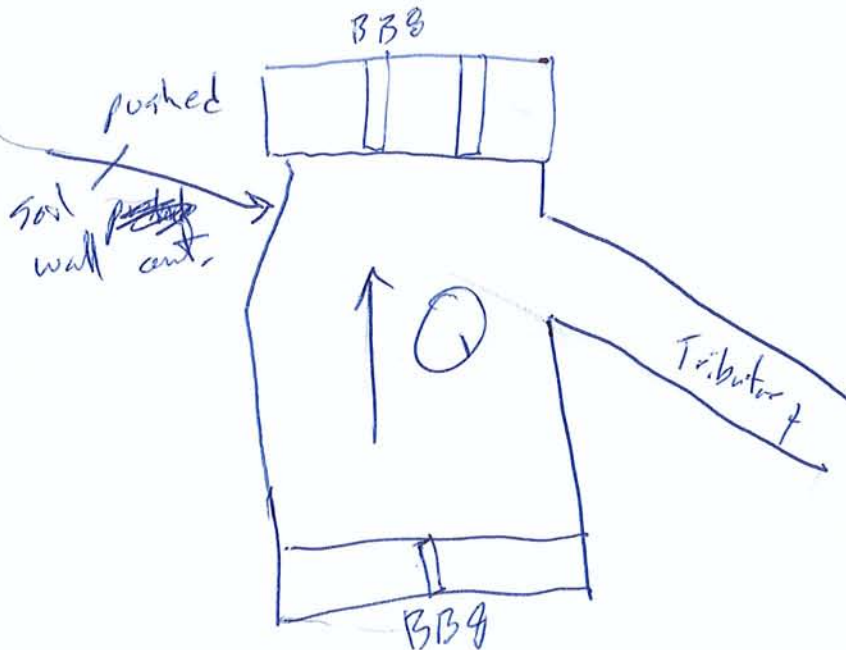
Concrete channel ~~with~~ with vertical walls between  
BBB and BBB. large inflow on rt overbank tributary  
sedimentation in bottom of channel ups of BBB.

General Channel Condition

6' vertical walls - downstream of BBB, left wall  
is directed towards channel + blocks inflow to BBB

Banks

Overbanks



# STRUCTURE SURVEY TEMPLATE

|  |        |   |  |   |  |
|--|--------|---|--|---|--|
|  |        |   |  | DATE  | 11/13/07   |
| ROAD NAME  |        |   |  | COUNTY  | Ventura  |
| STREAM NAME  |        |   |  | PHOTO ID #  |  |
| STRUCTURE #  |        | XY COORDINATE   |  |   |  |
| TYPE   | LENGTH | SIZE (W X H) & SHAPE  | MATERIAL   | Road to Bed   | INLET/OUTLET TYPE  |
| Railroad Bridge<br><i>Culvert</i>  |        | 2 - 8' x 6'   | concrete   | Top of Road EL  |  |
| SPECIAL NOTE<br>(Conditions, Blockage, etc)  |        |   |  |   |  |
| HIGH WATER MARK<br>(Description, Witness, and Date)  |        |   |  |   |  |
| TYPE   |        | CULVERT TYPE  | MATERIAL   | Road to Bed   | INLET/OUTLET TYPE  |
| Bridge<br>Span Bridge<br>Pier Shape<br><u>Culvert</u><br>Dam<br>Spillway<br>Riser Barrel<br>Outlet |        | Number of Barrels<br><u>2</u><br>1) Circular<br><u>2) Rectangle (Span X Rise)</u><br>3) Elliptical<br>4) Con/Span<br>5) Elevated Arch<br>6) Pipe Arch<br>7) Other | RCP (Reinforced Concrete Pipe)<br>CMP (Corrugated Metal Pipe)<br>Bitumous Coated<br>Steel<br>Timber<br>Ductile<br>Clay<br>Masonry Rock | Height from Top of Road to Invert<br><br>Top of Road EL<br><br>From Topo Map (FT.NGVD) or (FT.NAVD) | Headwall<br>Wingwalls Type 0°, 45°, 90°<br>Projecting<br>Flush with Slope<br>MES (Mitered End Section)<br>FES (Flared End Section) |

### Pier Shape

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

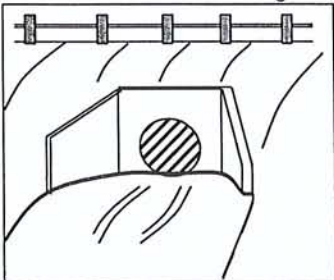


### Types (Shape) of Culvert

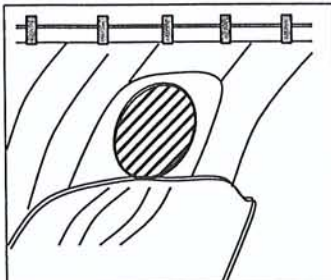
- |             |                  |               |
|-------------|------------------|---------------|
|             |                  |               |
| 1) Circular | 2) Rectangle     | 3) Elliptical |
|             |                  |               |
| 4) Con/Span | 5) Elevated Arch | 6) Pipe Arch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

### Inlet/Outlet Type

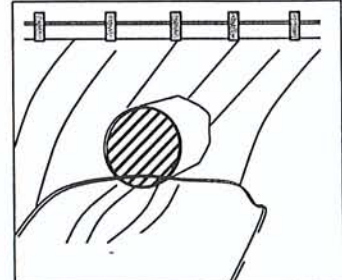
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

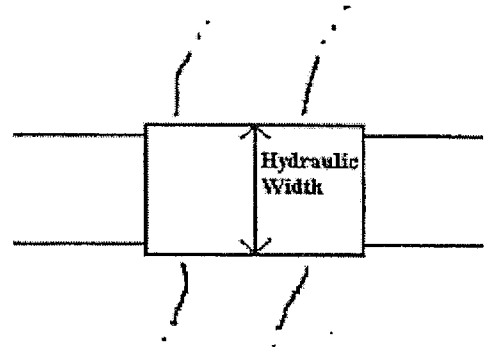
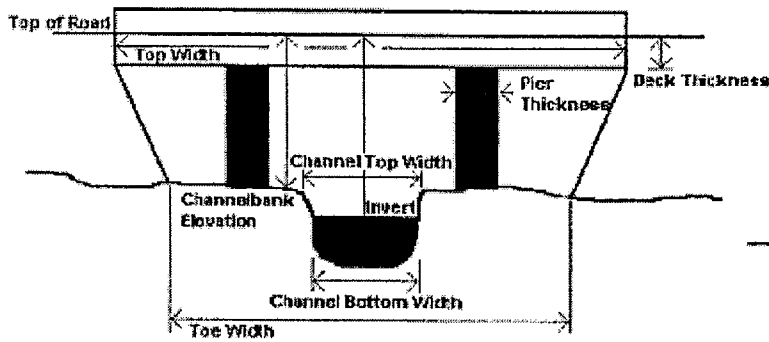


**CHANNEL INFORMATION**

| ROAD TO BANK | CHANNEL TOP WIDTH | CHANNEL BOTTOM WIDTH |
|--------------|-------------------|----------------------|
|              |                   |                      |

**BRIDGE INFORMATION**

| DECK THICKNESS  | TOP WIDTH       | TOE WIDTH      |
|-----------------|-----------------|----------------|
|                 |                 |                |
| HYDRAULIC WIDTH | NUMBER OF PIERS | PIER THICKNESS |
|                 | 1               | 6"             |



**PHOTOS**

| Name | Description | PHOTOS |
|------|-------------|--------|
|      |             |        |



ADDITIONAL CHANNEL INFORMATION

see aerial

Land Use

dense vegetation in channel u/s of culvert.

large trunk trees in channel, tops may be bad.

Vegetative Cover

u/s of culvert - Vegetative canopy - trees in bank, not channel bottom.

Natural channel bottom u/s of culvert.

Bed Material

concrete lined btm B3B9 - B3B10, a lot of sedimentation

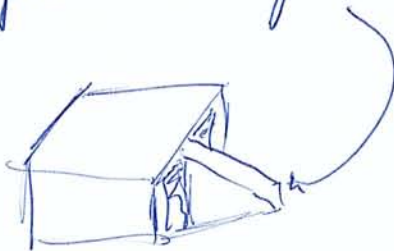
General Channel Condition

home made Flood wall <sup>or privacy fence</sup> right overbank @ u/s end.  
large rock revetment on left bank @ u/s end.

Banks

Overbanks

debris pier on upstream end of culvert



# STRUCTURE SURVEY TEMPLATE

|   |               |  |                                |                                      |                             |
|---|---------------|--|--------------------------------|--------------------------------------|-----------------------------|
| <b>DATE</b>   |               |  |                                | 11/13/07                             |                             |
| <b>ROAD NAME</b>  |               |  |                                | <b>COUNTY</b>                        |                             |
| Newada Ave + Telegraph Rd.  |               |  |                                | Ventura                              |                             |
| <b>STREAM NAME</b>  |               |  |                                | <b>PHOTO ID #</b>                    |                             |
|   |               |  |                                |                                      |                             |
| <b>STRUCTURE #</b>  |               |  | <b>X,Y COORDINATE</b>          |                                      |                             |
| BB 11 → 12  |               |  |                                |                                      |                             |
| <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   |               | 10' x 10' @ entrance (box)<br>10' x 8' @ outlet (arch) |                                |                                      |                             |
| <b>SPECIAL NOTE</b><br>(Conditions, Blockage, etc)  |               |  |                                | <b>Top of Road/EL</b>                |                             |
| drop inlet on upstream end of culvert.<br>during high flows, this inlet will act as orifice.<br>culvert goes from 10x10 box to arch under the road. |               |  |                                |                                      |                             |
| <b>HIGH WATER MARK</b><br>(Description, Witness, and Date)  |               |  |                                |                                      |                             |
|   |               |  |                                |                                      |                             |
| <b>TYPE</b>   |               | <b>CULVERT TYPE</b>                                    | <b>MATERIAL</b>                | <b>Road to Bed</b>                   | <b>INLET/OUTLET TYPE</b>    |
| 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)                             | Bitum Coated                   |                                      | Projecting                  |
| <u>Culvert</u>  |               | 3) Elliptical  | Steel                          | <b>Top of Road/EL</b>                | Flush with Slope            |
| Dam   |               | 4) Con/Span  | Timber                         |                                      | MES (Mitered End Section)   |
| Spillway  |               | 5) Elevated Arch                                       | Ductile                        | From Topo Map (FT.NGVD) or (FT.NAVD) | 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

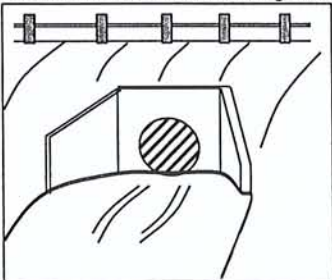


**Types (Shape) of Culvert**

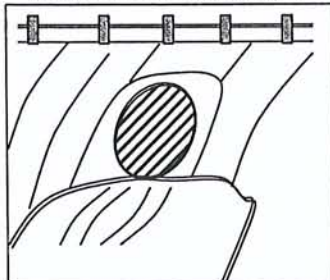
- |             |                  |               |          |
|-------------|------------------|---------------|----------|
| 1) Circular | 2) Rectangle     | 3) Elliptical | 7) Other |
| 4) Con/Span | 5) Elevated Arch | 6) Pipe Arch  |          |

**Inlet/Outlet Type**

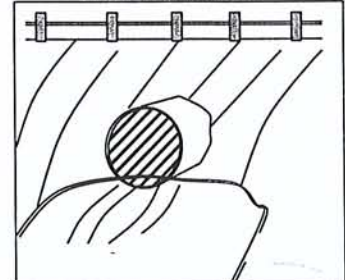
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

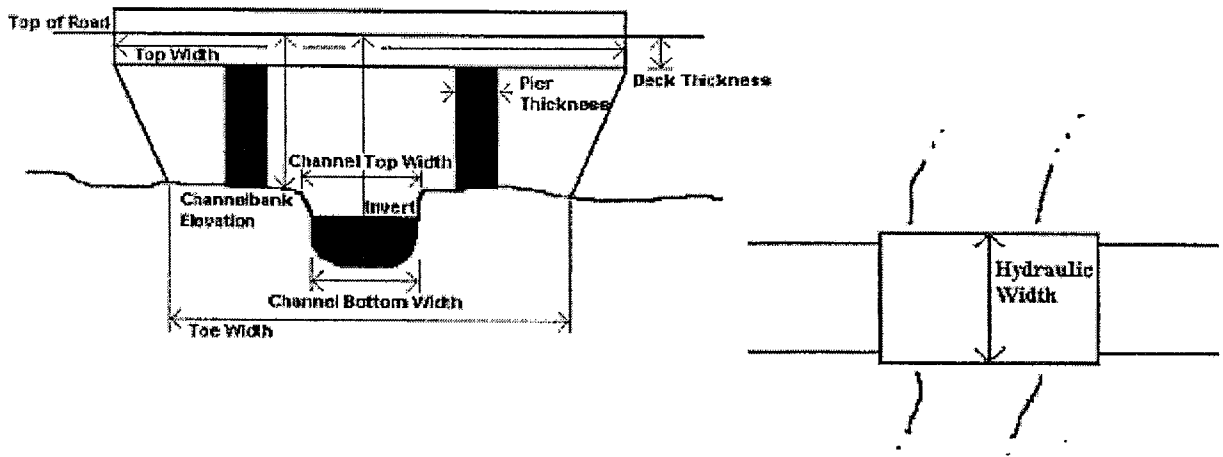


**CHANNEL INFORMATION**

| ROAD TO BANK | CHANNEL TOP WIDTH | CHANNEL BOTTOM WIDTH |
|--------------|-------------------|----------------------|
|              |                   |                      |

**BRIDGE INFORMATION**

| DECK THICKNESS  | TOP WIDTH       | TOE WIDTH      |
|-----------------|-----------------|----------------|
|                 |                 |                |
| HYDRAULIC WIDTH | NUMBER OF PIERS | PIER THICKNESS |
|                 | 0               |                |



|      |             | PHOTOS |
|------|-------------|--------|
| Name | Description |        |
|      |             |        |

ADDITIONAL CHANNEL INFORMATION

residential u/s of culvert, open d/s of culvert.

Land Use

large trees on ~~either~~ both banks @ u/s end  
dense vegetation @ d/s end. lots of felled  
trees ~ 70% on d/s end

Vegetative Cover

Sand bottom channel upstream - culvert is  
lined, but has gravel deposits

Bed Material

significant capacity in channel u/s of culvert.

General Channel Condition

overgrown vegetation, unstable slopes w/  
erodible sandy soil.

Banks

Overbanks


Inlet condition is different than  
outlet condition @ this culvert.  
May have to split model  
1) drop inlet @ upstream end  
2) each culvert w/ narrow throats

# STRUCTURE SURVEY TEMPLATE

|   |        |  |                                |                                      |                             |
|---|--------|--|--------------------------------|--------------------------------------|-----------------------------|
|   |        |  |                                | DATE                                 | 11/13/07                    |
| ROAD NAME   |        |  |                                | COUNTY                               | Ventura                     |
| STREAM NAME   |        |  |                                | PHOTO ID #                           |                             |
| STRUCTURE #   |        |  | X,Y COORDINATE                 |                                      |                             |
| STRUCTURE #   |        |  | STRUCTURE #                    |                                      |                             |
| TYPE  | LENGTH | SIZE (W X H) & SHAPE   | MATERIAL                       | Road to Bed                          | INLET/OUTLET TYPE           |
| Railroad-Bridge                                     |        | effectively<br># 12' x 3' arch   |                                | Top of Road EL                       |                             |
| SPECIAL NOTE<br>(Conditions, Blockage, etc)         |        | drop inlet <del>at</del> @ ups end, substantial sedimentation in ups end, <del>the</del> effectively 3' x 12' arch |                                |                                      |                             |
| HIGH WATER MARK<br>(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                    |
| Span Bridge   |        |  | CMP (Corrugated Metal Pipe)    | Top of Road EL                       | Wingwalls Type 0°, 45°, 90° |
| Pier Shape  |        | 1) Circular  | Bitmus Coated                  | From Topo Map (FT.NGVD) or (FT.NAVD) | Projecting                  |
| 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

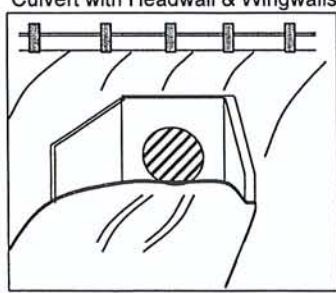


**Types (Shape) of Culvert**

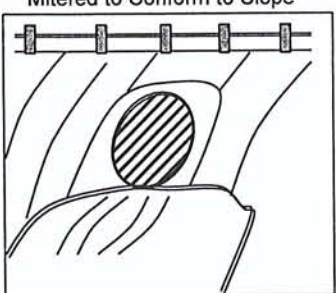
- 1) Circular
- 2) Rectangle
- 3) Elliptical
- 4) Con/Span
- 5) Elevated Arch
- 6) Pipe Arch
- 7) Other

**Inlet/Outlet Type**

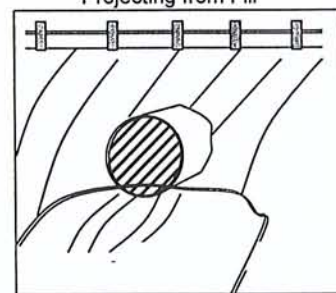
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

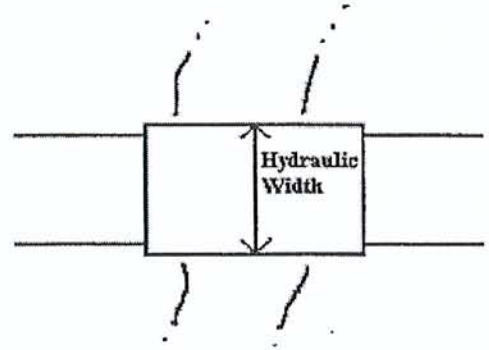
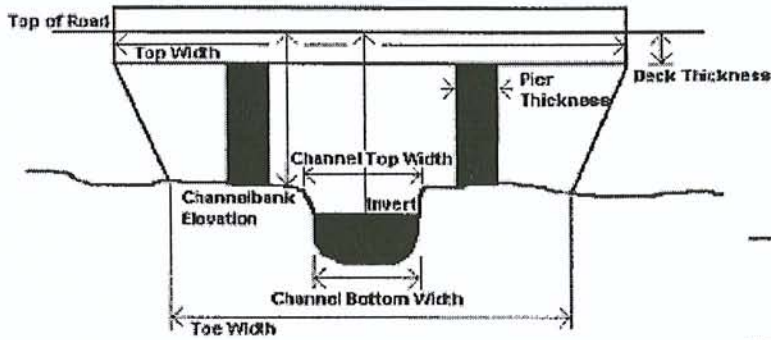


### CHANNEL INFORMATION

| ROAD TO BANK | CHANNEL TOP WIDTH | CHANNEL BOTTOM WIDTH |
|--------------|-------------------|----------------------|
|              |                   |                      |

### BRIDGE INFORMATION

| DECK THICKNESS  | TOP WIDTH                           | TOE WIDTH      |
|-----------------|-------------------------------------|----------------|
|                 |                                     |                |
| HYDRAULIC WIDTH | NUMBER OF PIERS                     | PIER THICKNESS |
|                 | 0 @ ups end, could not see d/s end. |                |



### PHOTOS

Name

Description

| Name | Description | PHOTOS |
|------|-------------|--------|
|      |             |        |

ADDITIONAL CHANNEL INFORMATION

lemon orchard @ upstream end

Land Use

dense vegetation and large trees @ d/s end of culvert. Dense vegetation u/s - could not see outlet

Vegetative Cover

gravel + cobble bottom u/s of culvert

Bed Material

decent detention available u/s of culvert.

General Channel Condition

overgrown banks - severely eroded u/s through lemon orchard - sandy erodible soil

Banks

residential between 131312 - 131314

Overbanks

