

STRUCTURE SURVEY TEMPLATE

				DATE	7-22-08
ROAD NAME	Hwy 14			COUNTY	LA
STREAM NAME	LRM Red Rover Mine			PHOTO ID #	
STRUCTURE #	LRM1		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)		42" ^{vertical} drop to immed $\frac{1}{2}$ s invert			
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
Span Bridge		3	CMP (Corrugated Metal Pipe)		MES (Mitered End Section)
Pier Shape		1) Circular $6' \times 59''$	Bitmus Coated	Top of Road EL	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

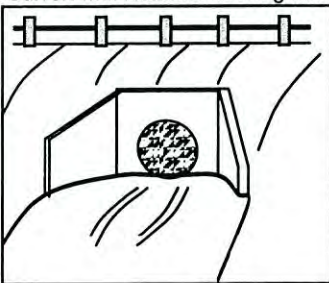


Types (Shape) of Culvert

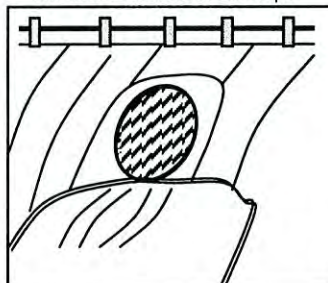
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|-------------|------------------|---------------|
| 1) Circular | 2) Rectangle | 3) Elliptical |
| 4) Con/Span | 5) Elevated Arch | 6) Pipe Arch |
| 7) Other | | |

Inlet/Outlet Type

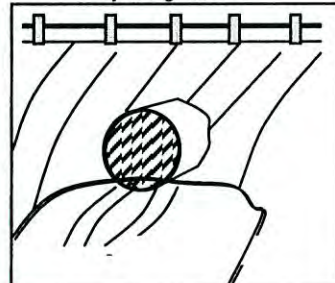
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

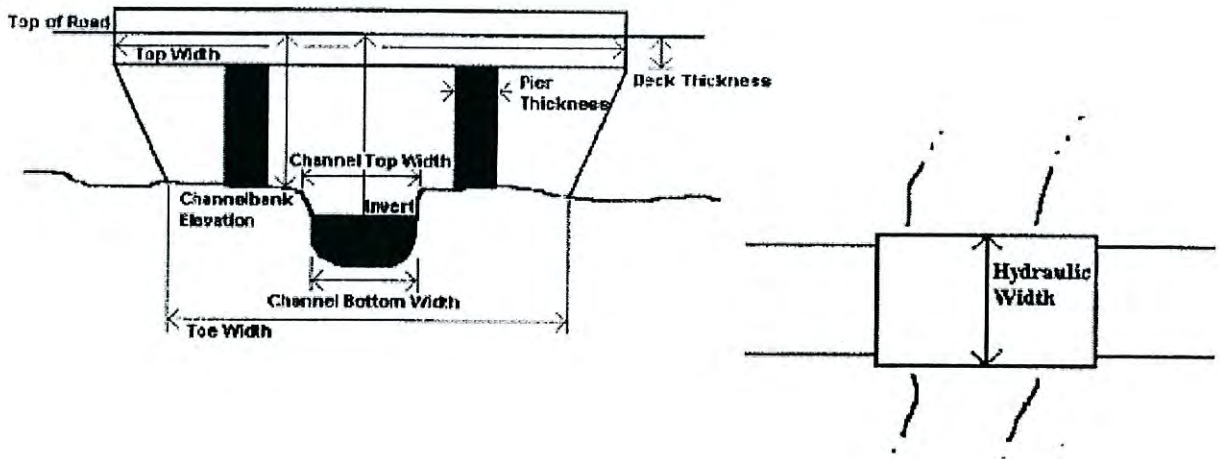


CHANNEL INFORMATION

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
triple box	D/S end	<p>Uk side sig. blocked by sediment ~20"</p> <p>39"</p> <p>w/m w/m</p> <p>42"</p> <p>Rocks</p> <p>Conc</p> <p>112"</p>

ADDITIONAL CHANNEL INFORMATION

horse pasture d/s
school way d/s on L

Land Use

open + some brush

Vegetative Cover

sand + gravel

Bed Material

ill-defined

General Channel Condition

general topo

Banks

brush clumps.

Overbanks

u/s end is very close
to outlet of Sierra Hwy culvert

STRUCTURE SURVEY TEMPLATE







				DATE	
ROAD NAME	Serris Hwy			COUNTY	
STREAM NAME	Red Rover main			PHOTO ID #	
STRUCTURE #	RPM 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)		very small culvert compared to d/s			
HIGH WATER MARK (Description, Witness, and Date)					
TYPE		CULVERT TYPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Bridge		Number of Barrels 1	RCP (Reinforced Concrete Pipe)	Height from Top of Road to Invert	Headwall
Span Bridge			CMP (Corrugated Metal Pipe)		Top of Road EL
Pier Shape		1) Circular 3' x 2'	Bitmus Coated	From Topo Map (FT.NGVD) or (FT.NAVD)	
<u>Culvert</u>		2) Rectangle (Span X Rise)	Steel		
Dam		3) Elliptical	Timber		MES (Mitered End Section)
Spillway		4) Con/Span	Ductile		FES (Flared End Section)
Riser Barrel		5) Elevated Arch	Clay		
Outlet		6) Pipe Arch	Masonry Rock		
		7) Other			

Pier Shape

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

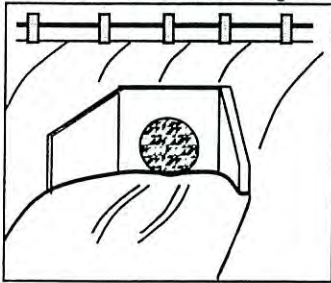


Types (Shape) of Culvert

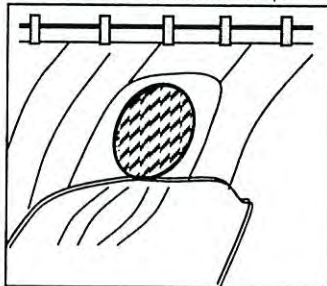
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|---|---|---|
|  |  |  |
| 1) Circular | 2) Rectangle | 3) Elliptical |
|  |  |  |
| 4) Con/Span | 5) Elevated Arch | 6) Pipe Arch |
| 7) Other | | |

Inlet/Outlet Type

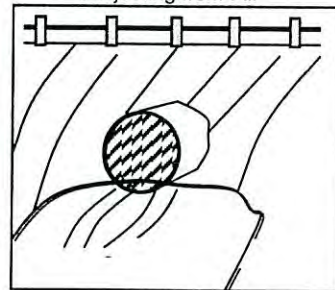
Culvert with Headwall & Wingwalls



Mitered to Conform to Slope



Projecting from Fill

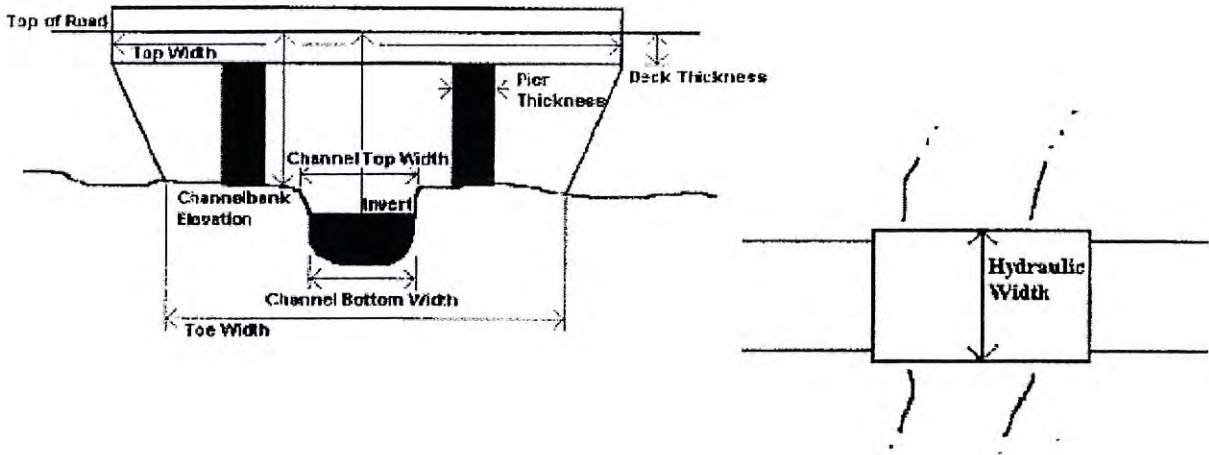


CHANNEL INFORMATION

ROAD TO BANK	CHANNEL TOP WIDTH	CHANNEL BOTTOM WIDTH

BRIDGE INFORMATION

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



		PHOTOS
Name	Description	
	d/s end appears new	
	outlet invert is ~22" above channel bottom d/s	

ADDITIONAL CHANNEL INFORMATION

Land Use d/s open v/s light residential near v/s
industrial on L bank v/s

brush

Vegetative Cover

sand + gravel

Bed Material

defined d/s

General Channel Condition

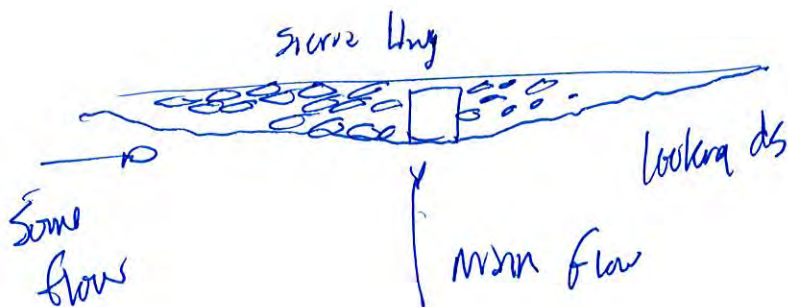
low 2-3' D/s

Banks

brush

Overbanks


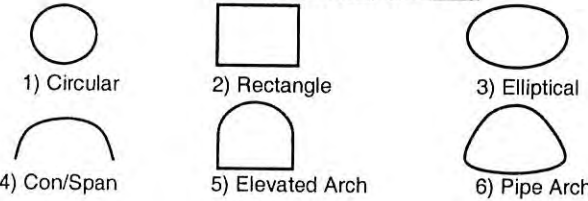
near corner of Sierra Hwy & Red Rover Mine Rd
some local grading, cleared area adjacent to RRM Rd
 v/s side some flow parallels
Sierra Hwy near
intersection



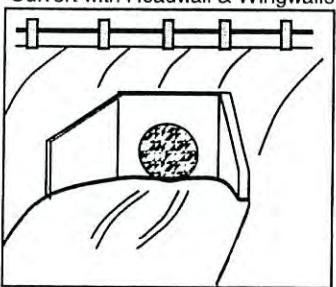
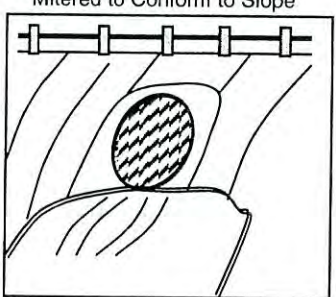
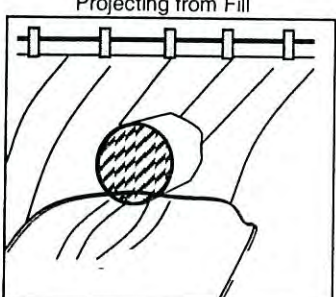
STRUCTURE SURVEY TEMPLATE

				DATE	7-28-08
ROAD NAME	Red River Mine			COUNTY	LA
STREAM NAME	Red River Mine			PHOTO ID #	
STRUCTURE #	RRM 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 in paved road - stream crossing			
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

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

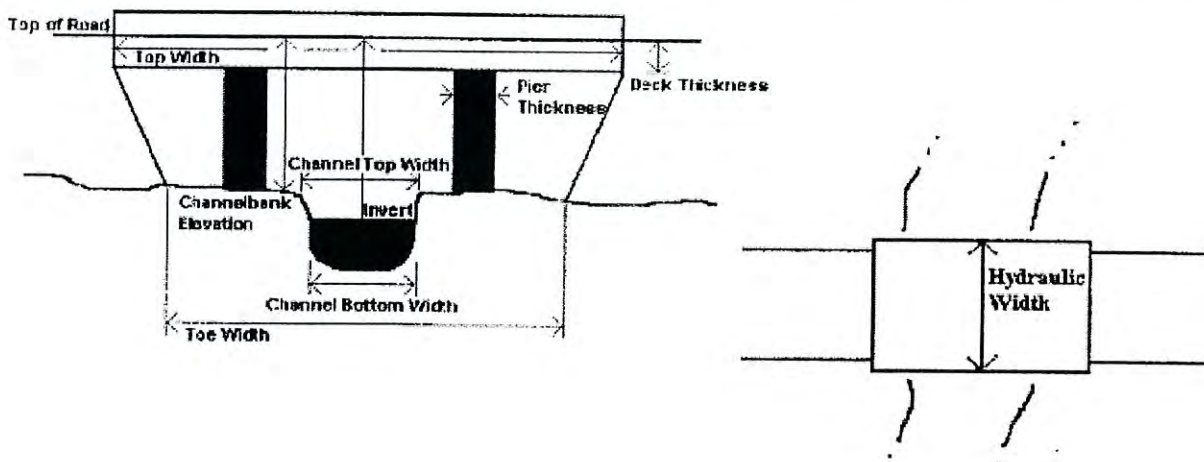
<p>Culvert with Headwall & Wingwalls</p> 	<p>Mitered to Conform to Slope</p> 	<p>Projecting from Fill</p> 
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CHANNEL INFORMATION

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>This crossing is named d/s of RRM 4</p> <p>There is just a very small drainage way crossing named d/s of RRM 3 (N side of street)</p>	<p>All other crossings on this stream appear to be dips.</p>

ADDITIONAL CHANNEL INFORMATION

Land Use

light residential / open

Vegetative Cover

brush

Bed Material

sand & gravel

General Channel Condition

locally degraded, small

Banks

general topo

Overbanks

brush

STRUCTURE SURVEY TEMPLATE

				DATE	7-29-08
ROAD NAME	Red Rover Mine Rd - driveway			COUNTY	LA
STREAM NAME	Red Rover Mine			PHOTO ID #	
STRUCTURE #	RRM 4		X,Y COORDINATE		
TYPE	LENGTH	SIZE (W X H) & SHAPE	MATERIAL	Road to Bed	INLET/OUTLET TYPE
Railroad Bridge					
				Top of Road EL	
SPECIAL NOTE (Conditions, Blockage, etc)		Small drive way to residence			
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 2 1) Circular 18" dia 2) Rectangle (Span X Rise) 3) Elliptical 4) Con/Span 5) Elevated Arch 6) Pipe Arch 7) Other	RCP (Reinforced Concrete Pipe) CMP (Corrugated Metal Pipe) Bitmus Coated Steel Timber Ductile Clay Masonry Rock	Height from Top of Road to Invert <u>Top of Road EL</u> From Topo Map (FT.NGVD) or (FT.NAVD)	Headwall Wingwalls Type 0°, 45°, 90° Projecting Flush with Slope MES (Mitered End Section) FES (Flared End Section)

Pier Shape

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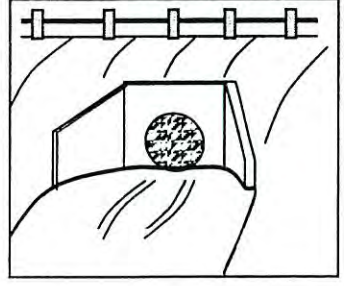


Types (Shape) of Culvert

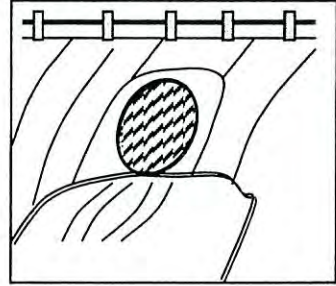
- 1) Circular
- 2) Rectangle
- 3) Elliptical
- 4) Con/Span
- 5) Elevated Arch
- 6) Pipe Arch
- 7) Other

Inlet/Outlet Type

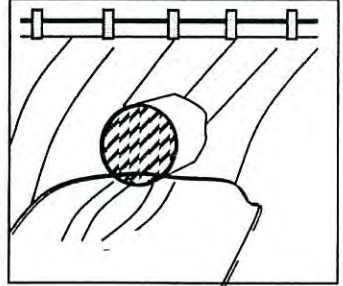
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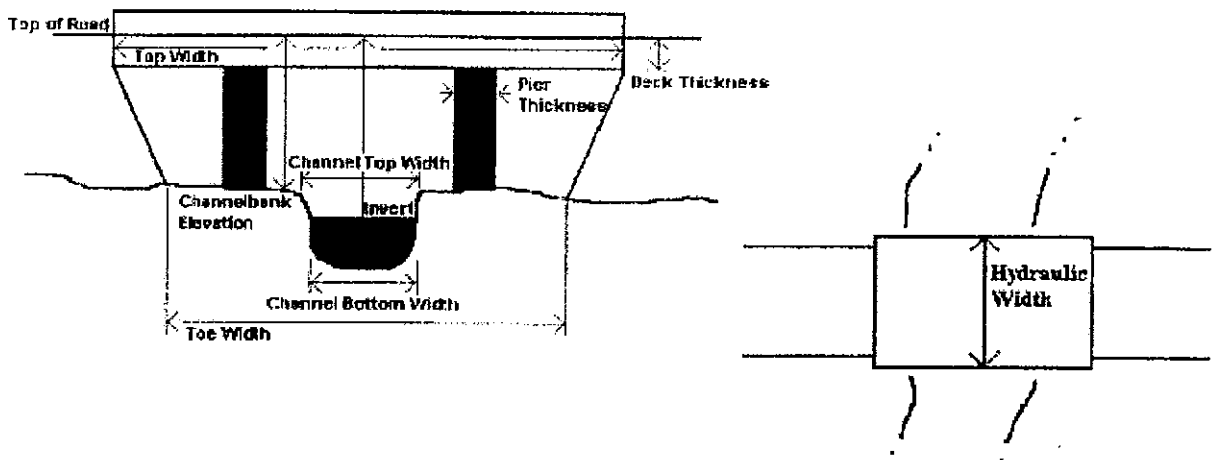


CHANNEL INFORMATION

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 light residential

Vegetative Cover brush

Bed Material sand + gravel

General Channel Condition loosely incised, very smooth, parallels road

Banks loosely vertical

Overbanks RR road on R, open brush + residences on L

Channel likely overflows (see RR#3)
and flows down Red Rock Mine Road.