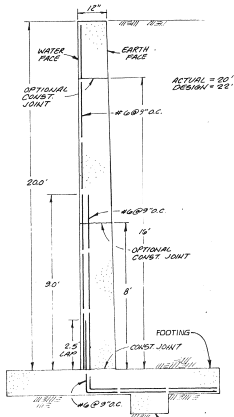
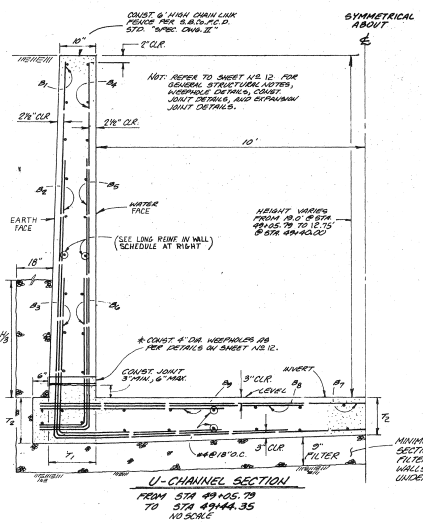


DETAIL A' ELEVATION VIEW
@ STA 49+05.79
FOR CALTRANS STANDARD DETAIL
RETAINING WALL, TYPE 1, B-3-1 (MOD.)
SCALE 1" = 2'



NOTES:
ACTUAL WALL HEIGHT = 20.0'
HOWEVER ONE DESIGN IS 21.5'
FOR THE WALL ON STD. DESIGN, THE
RETAINING WALL DIMENSIONS
AND DESIGN SHALL BE FOR
DESIGNING REBAR SHOWN HERE
FOR WATER FACE SHALL BE IN
LINE WITH REBAR SHOWN HERE
STD. DETAIL, EXTEND THE WALL
REBAR INTO THE RETAINING AS
SHOWN.
REBARING BELOW FOOT SHOWN
HERE SHALL BE AS FOR THE STD.
DETAIL, (CONCRETE 28' x 28' x 12")
ADJUST STEEL FOR THE
2.0' VARIATION BETWEEN
THE ACTUAL WALL HEIGHT AND
THE DESIGN HEIGHT.
 $f_c = 4,000 \text{ psi}$
 $f_y = 60,000 \text{ psi}$
DETAIL B'
STA 49+05.79
CALTRANS STANDARD DETAIL
RETAINING WALL, TYPE 1 (MOD.)
NO SCALE



U-CHANNEL SECTION
FROM STA 49+05.79
TO STA 49+44.35
NO SCALE

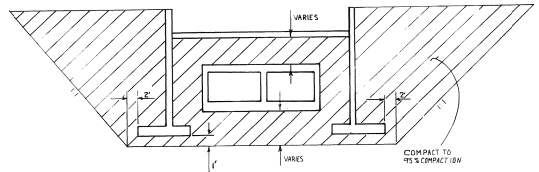
STEEL SCHEDULE FOR U-CHANNEL

FROM STA 49+05.79 TO STA 49+15.07 @ 15.07' INCH			FROM STA 49+15.07 TO STA 49+44.35 @ 15.07' INCH		
BAR # & SPACING	VERTICAL LENGTH	HORIZONTAL LENGTH	BAR # & SPACING	VERTICAL LENGTH	HORIZONTAL LENGTH
B ₁ #7 @ 9" O.C.	242" to 201"	149"	#7 @ 12" O.C.	201" to 161"	151"
B ₂ #8 @ 9" O.C.	191"	116"	#7 @ 12" O.C.	71"	75"
B ₃ #8 @ 9" O.C.	64"	73"	#7 @ 12" O.C.	15"	18"
A ₁ #5 @ 9" O.C.	242" to 201"	21" to 0"	#6 @ 12" O.C.	201" to 161"	16" to 13"
A ₂ #6 @ 9" O.C.	122"	21" to 18"	#6 @ 12" O.C.	110"	12" to 13"
A ₃ #6 @ 9" O.C.	69"	21" to 18"	#6 @ 12" O.C.	45"	12" to 13"
B ₄ #8 @ 9" O.C.	0"	238" to 216"	#6 @ 12" O.C.	0"	216" to 211"
A ₄ #8 @ 9" O.C.	0"	238" to 216"	#7 @ 12" O.C.	0"	182"
A ₅ #6 @ 9" O.C.	0"	105"	#7 @ 12" O.C.	0"	70"

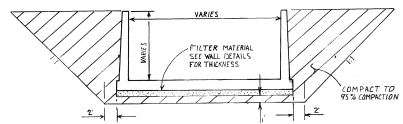
2' VARIES FROM 18" TO 15"
W = 2.0'
H = VARIES FROM 16.1' TO 15.07'

2' VARIES FROM 15.07"
2' VARIES FROM 15" TO 12"
H = 0.0'
H = VARIES FROM 15.87' TO 12.75'

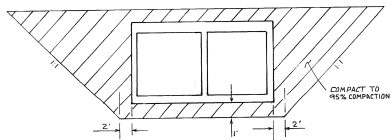
LONG RIMF = 50.0" EARTH FACE
6 @ 8" WATER FACE
6 @ 8" SINGLE BAR



STRUCTURAL BACKFILL @ SPILLWAY
N.T.S.

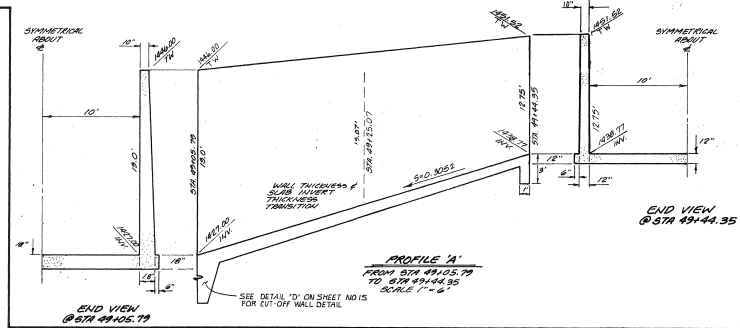


STRUCTURAL BACKFILL TYPICAL CHANNEL SECTION
N.T.S.



STRUCTURAL BACKFILL BOX CULVERT @ FOOT HILL DRIVE
N.T.S.

NOTE:
RELATIVE COMPACTION OF NOT LESS THAN 95% SHALL BE OBTAINED FOR A MINIMUM DEPTH OF 1.0 FEET BELOW THE BOTTOM OF THE INVERT OR BELOW THE FILTER MATERIAL, WHERE DISPERSED, UNDER THE BOTTOM OF THE INVERT SLAB FOR BOTH OPEN CHANNEL OR BOX CULVERT.
THE BACK FILL SHALL CONSIST OF MATERIAL FREE OF STONES OR LUMPY GOODERBAGS IN GREATST DIMENSION AND SHALL BE FREE OF ORGANIC OR OTHER UNDESIRABLE MATERIAL.
DRAIN / ACCESS ROAD: NOT ADJACENT TO CHANNELS AND BOX CULVERTS, SHALL HAVE THE TOP 2.5 FEET (24" MIN), COMPACTED TO 95% COMPACTION.



PROFILE A'
FROM STA 49+05.79
TO STA 49+44.35
SCALE 1" = 2'



MARK	DATE	REVISIONS DESCRIPTION	BY

SUBMITTED BY:	<i>Anna S. Chaff</i> 5-25-97
RECOMMENDED BY:	<i>Dwight K. Center</i> 5-25-95
APPROVED BY:	<i>Ken A. Miller</i> 5/25/95
TITLE:	M. ALI / M. ALI / B. H. / M. ALI

SAN BERNARDINO COUNTY FLOOD CONTROL DISTRICT	
LEMON BASIN INLET CHANNEL STRUCTURAL DETAILS	
DATE	10-20