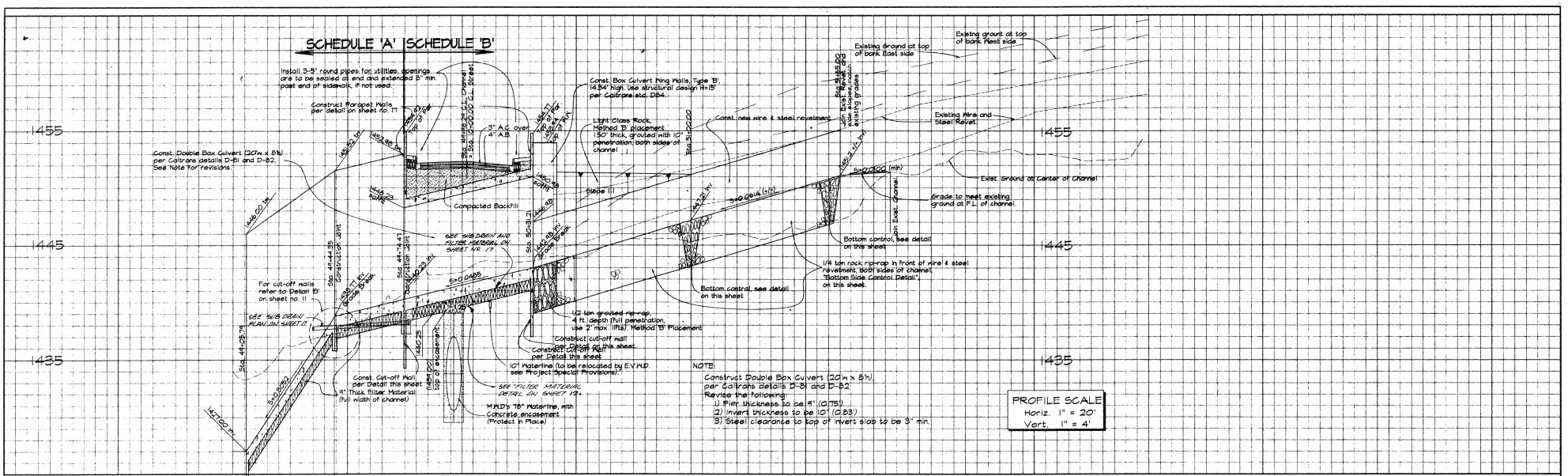
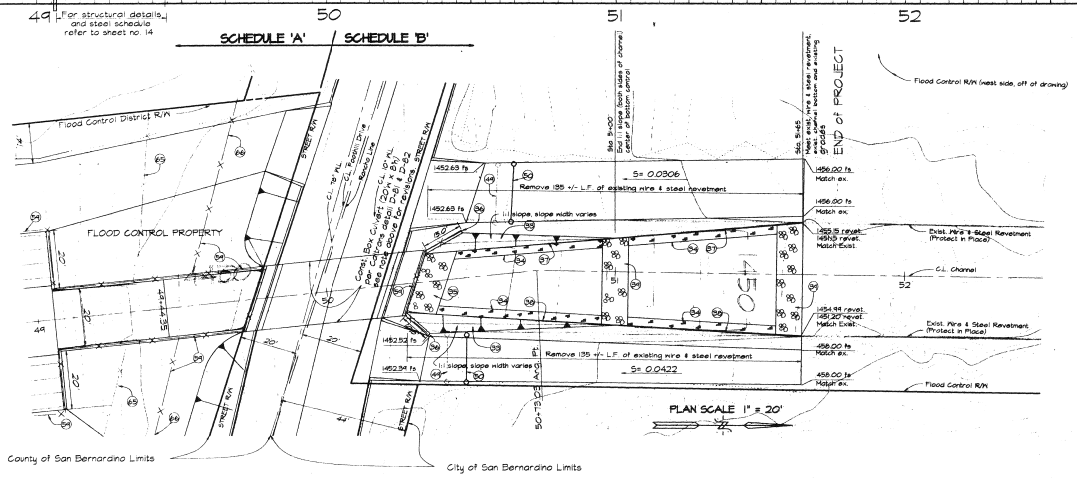
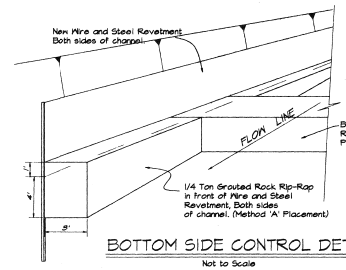


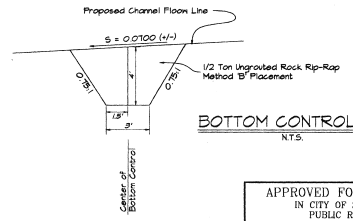




BOTTOM SIDE CONTROL DETAIL

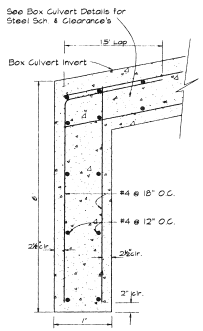
Not to Scale

[PERSPECTIVE VIEW]



BOTTOM CONTROL DETAIL

N.T.S.



BOX CULVERT CUT-OFF WALL
TYPICAL BOTH ENDS OF BOX

N.T.S.

CONSTRUCTION NOTES:

33	Light Class Rock, Method 'B' placement, 1.50' thick, grouted with 10" penetration, Both sides of channel.
34	1/4 Ton Grouted Rock Rip-Rap, in front of Wire & Steel Revetement, Both sides of channel See "Bottom Side Control Detail", on this sheet. (Method 'A' Placement)
35	1/2 Ton Grouted Rip-Rap, depth of protection = 4' (full penetration, use 2' max. lifts).
36	Construct Box Culvert Wing Walls Type 'B', 4.34' high. Use structural Design H=15', per Caltrans std. D84.
37	Construct 135 +/- L.F. of wire and steel revetment, east side of channel.
38	Construct 134 +/- L.F. of wire and steel revetment, east side of channel.
39	Construct 1/2 Ton Ungrouted Rock Rip-Rap per detail on this sheet (Method 'B' placement).
44	Approx. location of exist. pipe gates (to be relocated to position No. 50).
50	Relocate exist. F.C.D. pipe gates (No. 44) to positions shown on plan above (30' +/- from edge of roadway pavement), and as designated by the Resident Engineer.
54	Construct 6' high chain link fence, per plans hereon and per spec. dwg. 11.
65	Relocate exist. chain link fence and gate to location No. 66, shown per plan hereon, and as designated by the Resident Engineer.
66	New location of exist. fence and gate removed from location No. 65.

REGISTERED PROFESSIONAL ENGINEER M.A.A.S. GHALI No. 24712 Exp. Dec. 31, 1997 CIVIL STATE OF CALIFORNIA

SAN BERNARDINO COUNTY FLOOD CONTROL DISTRICT 1939 CALIFORNIA

REVISIONS			
MARK	DATE	DESCRIPTION	BY:

SUBMITTED BY: Maria Sadek Chief 5-25-95 — CHIEF, ENGINEERING DIVISION — Date

RECOMMENDED BY: David V. Carter 5-25-95 — ASSIST. FLOOD CONTROL ENGINEER — Date

APPROVED BY: Jon A. Mikkelsen 5/25/95 — FLOOD CONTROL ENGINEER — Date

PROJ. ENG.	DES. BY:	REV'D BY:	DRAWN BY:
M. ALI	BOB HO	M. ALI	BOB HO

APPROVED FOR CONSTRUCTION IN CITY OF SAN BERNARDINO PUBLIC RIGHT-OF-WAY

APPROVED 5-22, 19 95

DIRECTOR OF PUBLIC WORKS/CITY ENGINEER R.C.E. No. 23014

CHECKED BY: RECOMMENDED BY:

SAN BERNARDINO COUNTY FLOOD CONTROL DISTRICT

UPPER WARM CREEK SYSTEM

IMPROVEMENTS ON

LEMON BASIN

CHANNEL IMPROVEMENTS
Plan and Profile
From Sta. 49+40
To Sta. 51+65

DATE	Nov. 18th 1994
F.B. REF.	NONE
FILE NO.	2-511-4
SHEET NO.	16 of 20