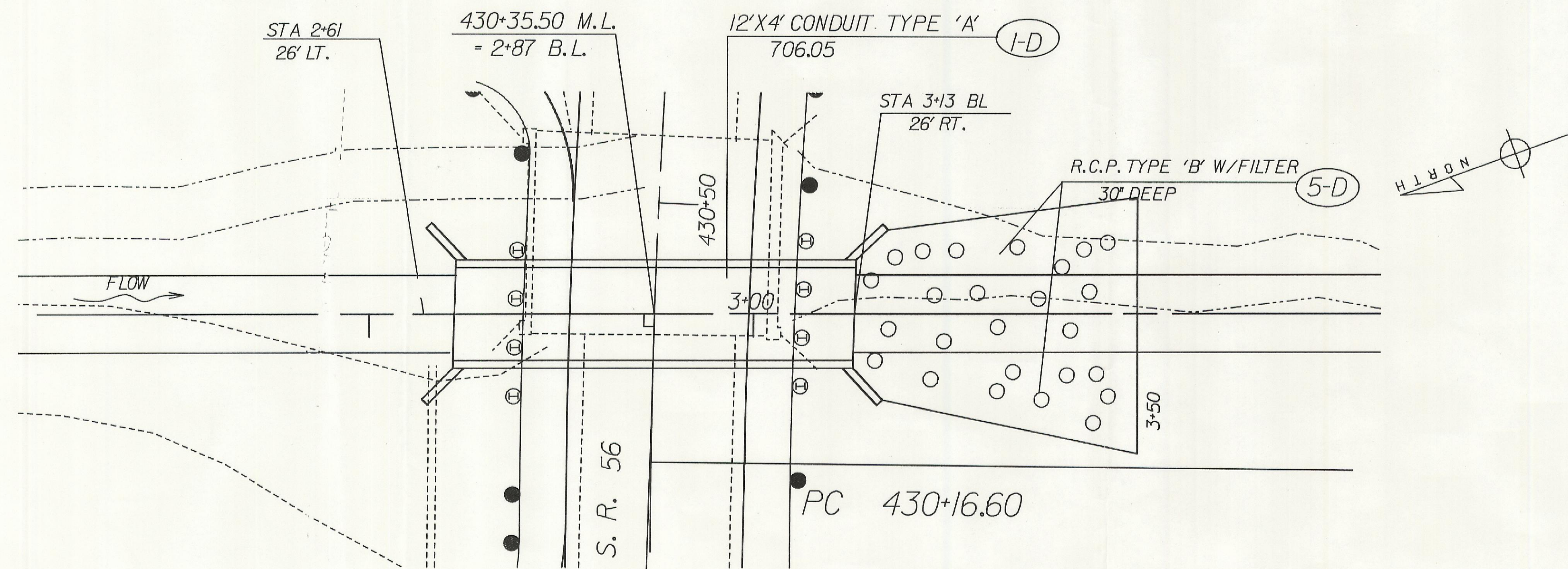


# BOX CULVERT DETAIL STA 430+35.5

Calculated	Checked
by: SE	by:
Date: 5-91	Date:

FED. RD. DIVISION	STATE	PROJECT
5	OHIO	HOC-56-8.07

19  
35



PLAN

**NOTE:**

CONTRACTOR SHALL VERIFY LENGTH OF MOUNTED GUARDRAIL POSTS ON CULVERTS BY FIELD MEASUREMENTS. MOUNTED GUARDRAIL POSTS SHALL BE PREFABRICATED TO THE FIELD VERIFIED MEASUREMENT.

### DRAINAGE ANALYSIS

DRAINAGE AREA	= 0.51 SQ. MI.
Q 10	= 250 C.F.S.
Q 50	= 498 C.F.S.
VOL. 10 YR.	= 10.5 F.P.S.
HW 10	= 686.41 FT.
HW 50	= 689.2 FT.
HW 100	= 691.11 FT.

### QUANTITIES

ITEM 602 CONCRETE MASONRY, AS PER PLAN  
FROM HEADWALL DETAIL SHEET 18 = 26 CU.YDS.

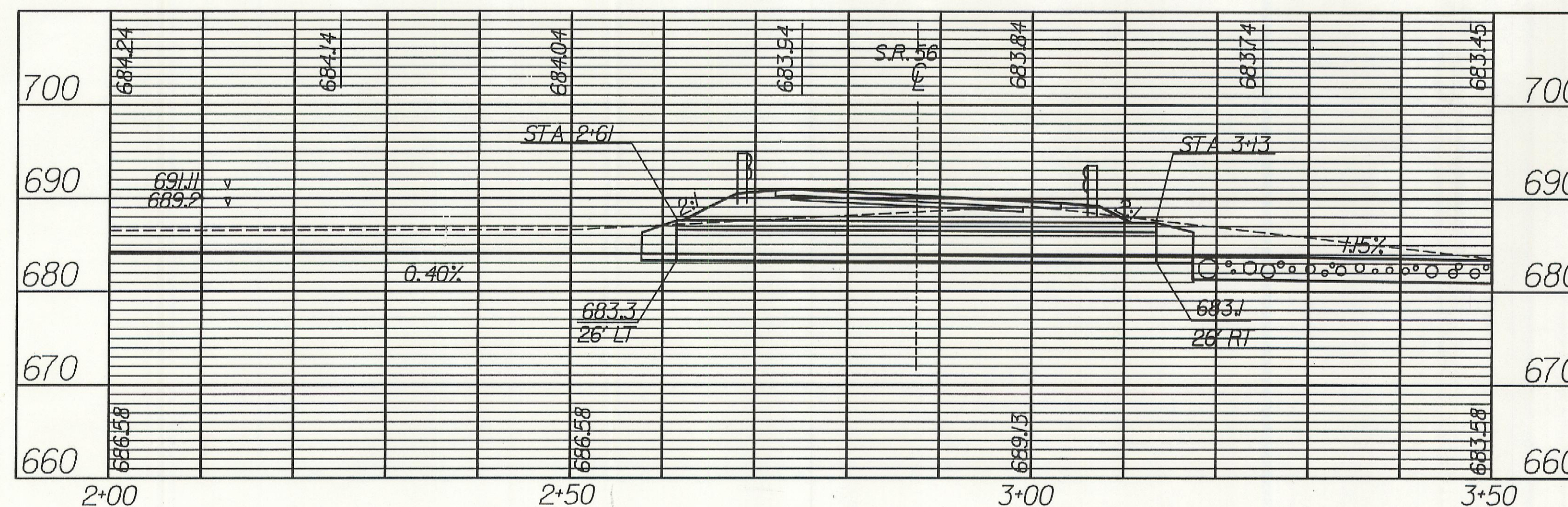
ITEM 603 12' X 4' CONDUIT TYPE 'A', 706.05  
LENGTH = 52 LIN. FT.

FOR DETAILS OF CHANNEL CROSS SECTIONS  
ROCK CHANNEL PROTECTION QUANTITIES SEE SHEETS 21-22

ITEM 203 EMBANKMENT, AS PER PLAN  
AREA UNDER CULVERT = 728 S.F.  
VOLUME = 728 X 1.5 / 12 / 27 = 3.37 CU.YDS.  
AREA UNDER WINGWALLS = 88 S.F.  
VOLUME = 88 X 2 / 12 / 27 = 0.54 CU.YDS.  
TOTAL = 3.91 = 4 CU.YDS.

ITEM 503 UNCLASSIFIED EXCAVATION, AS PER PLAN  
SAME AS ITEM 203  
VOLUME = 4 CU.YDS.

QUANTITIES CARRIED TO SHEET No. II

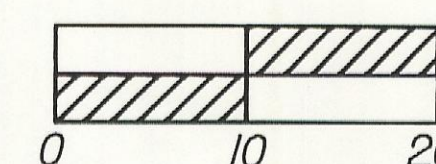


PROFILE

### LAYOUT FOR INLET MOUNTED POSTS

FOR POST & RAILING DETAIL SEE SHEET 26

STATION	OFF	SIDE	DESCRIPTION
430+24.75	17	LT	W6 X 25 POST
430+30.89	17	LT	W6 X 25 POST
430+37.03	17	LT	W6 X 25 POST
430+43.17	17	LT	W6 X 25 POST
430+26.67	18.22	RT	W6 X 25 POST
430+33.04	18.26	RT	W6 X 25 POST
430+39.40	18.30	RT	W6 X 25 POST
430+45.77	18.34	RT	W6 X 25 POST



OFFSET FROM C/L TO FACE OF GUARDRAIL