

170

160

160

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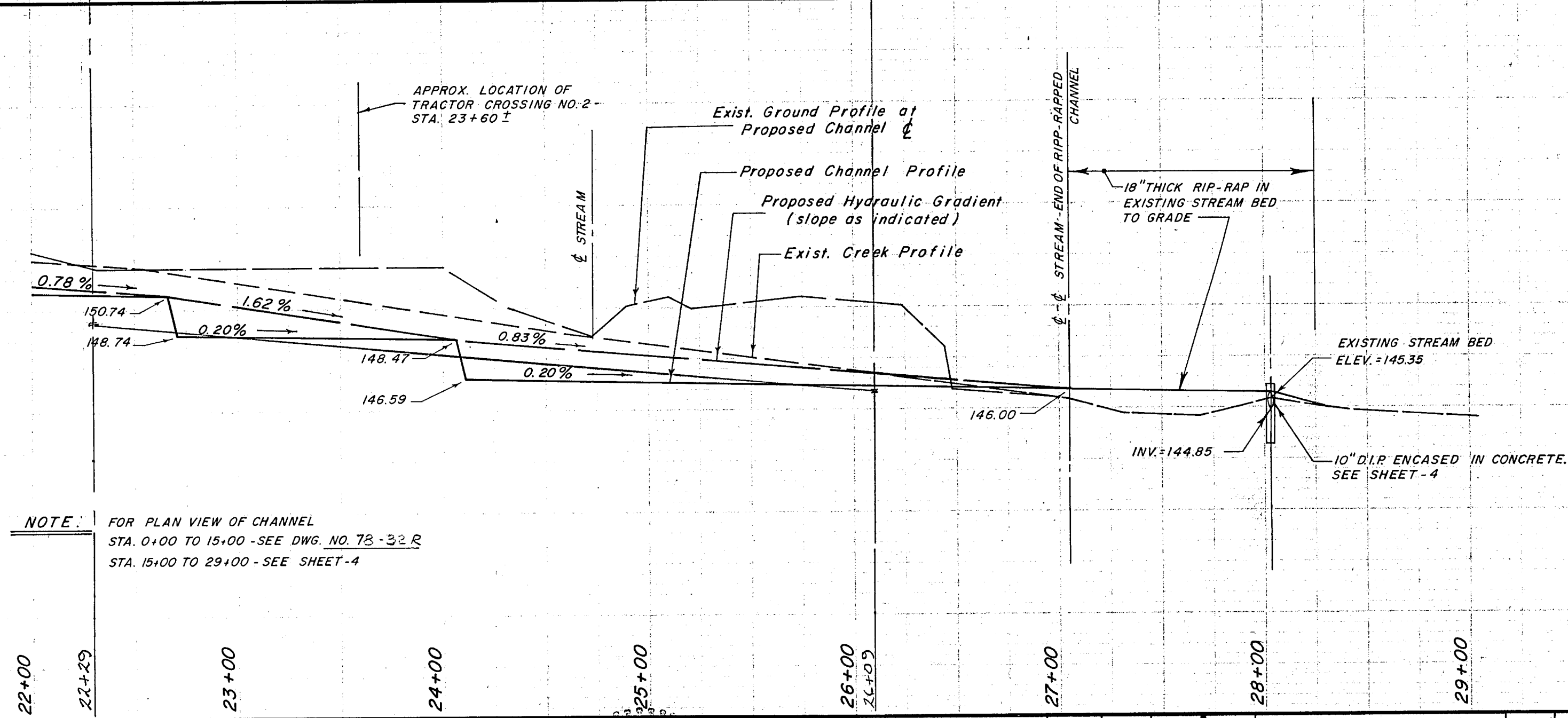
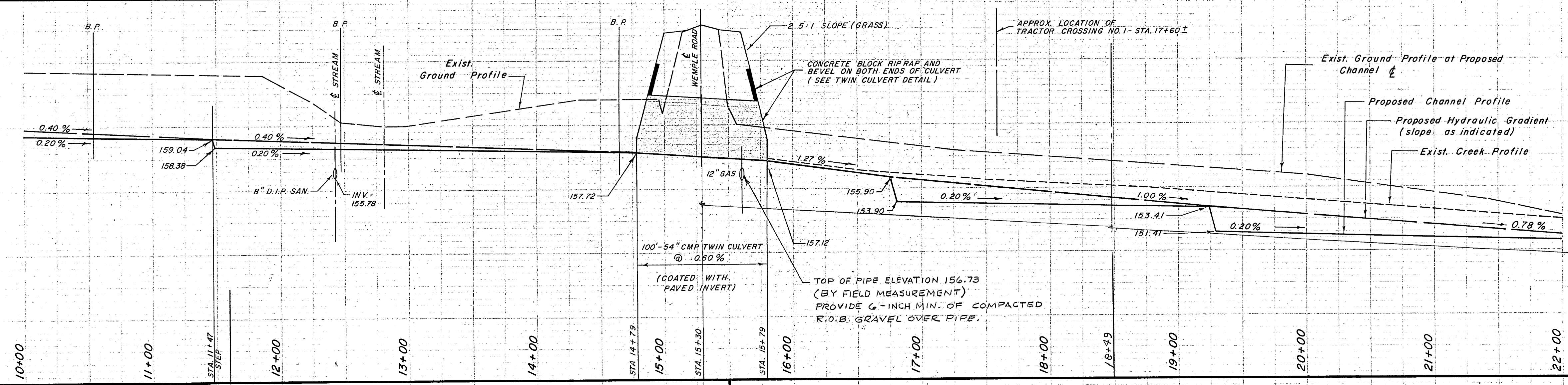
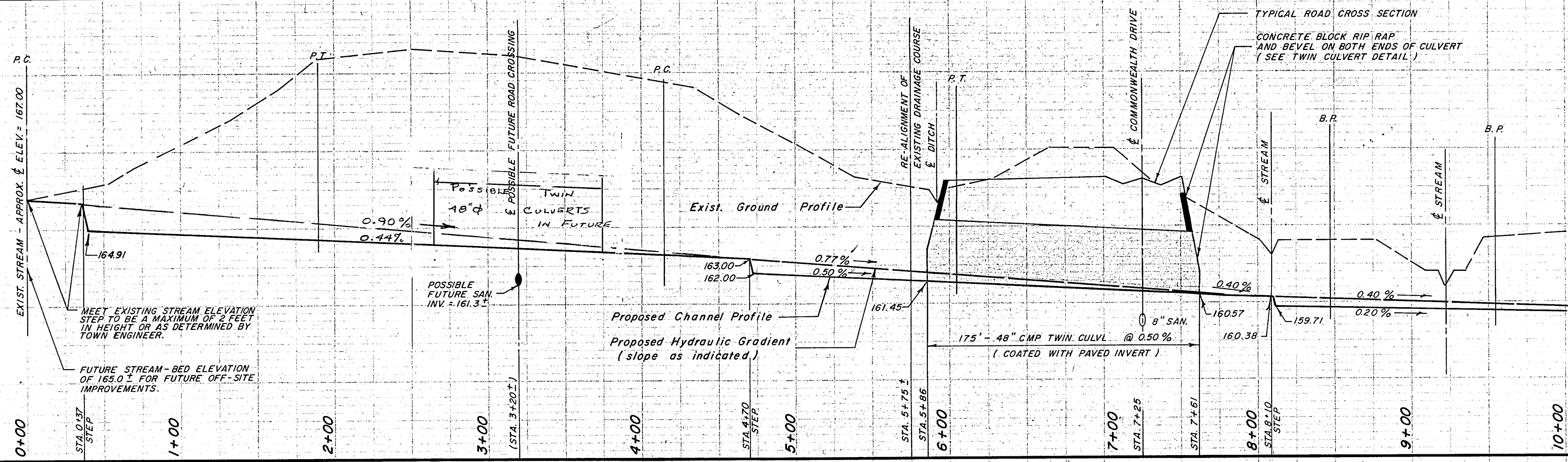
160

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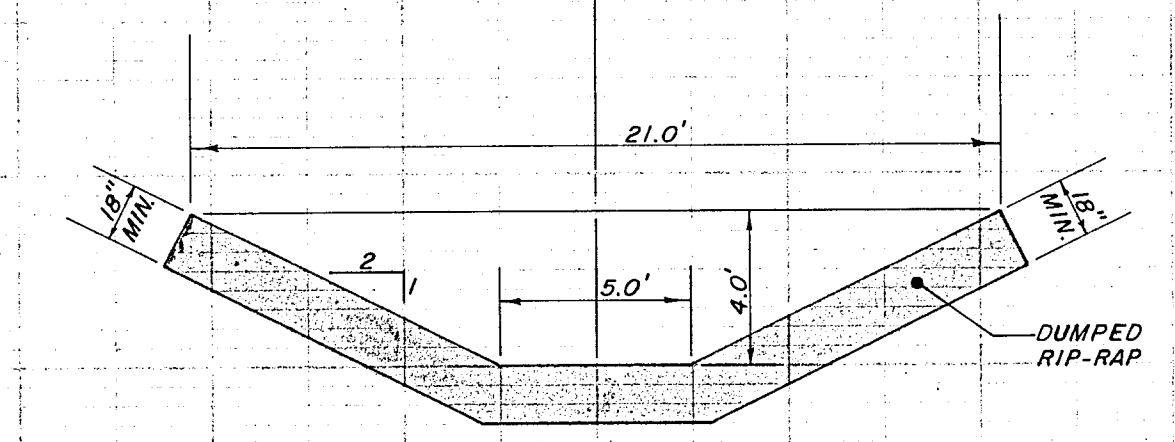


NOTE: FOR PLAN VIEW OF CHANNEL STA. 0+00 TO 15+00 - SEE DWG. NO. 78-32.R STA. 15+00 TO 29+00 - SEE SHEET-4

CHANNEL DESIGN CRITERIA (FOR OUTFALL SECTION)

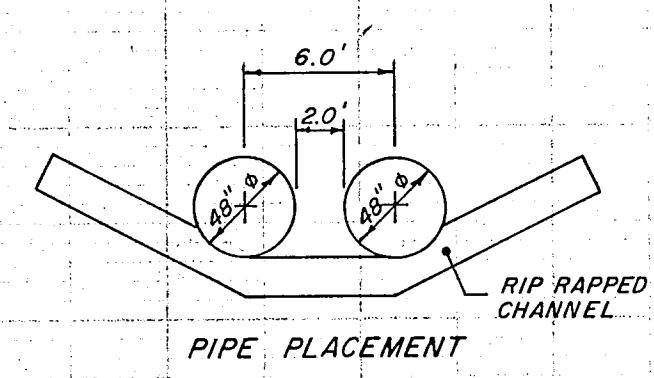
WETTED PERIMETER = 20.65 LF
FRICTION FACTOR = 0.030
MIN. SLOPE OF HYDRAULIC GRADIENT = 0.40%
AREA = 42 SQ. FT.
EXPECTED PEAK FLOW = 225 CFS
DEPTH OF FLOW = 3.1 FT.
VELOCITY = 6.5 FRS
TO DECREASE VELOCITY, USE 2' HIGH STEPS WITH S = 0.20%.

CHANNEL CROSS-SECTION (SCALE: 1" = 5')

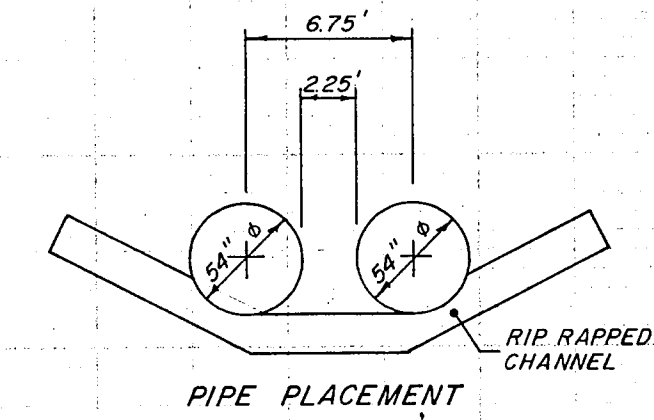


NOTE: DUMPED RIP-RAP, TO BE SCREENED IRREGULAR SHAPED COBBLE ROCK CONSISTING OF AN EQUAL MIXTURE BY WEIGHT OF 100LB. TO 5LB. STONE. ANY SOFT SPONGY MATERIAL WITHIN CHANNEL IS TO BE REPLACED TO A DEPTH OF 12" WITH AN APPROVED R.O.B. GRAVEL BEFORE PLACEMENT OF RIP-RAP.

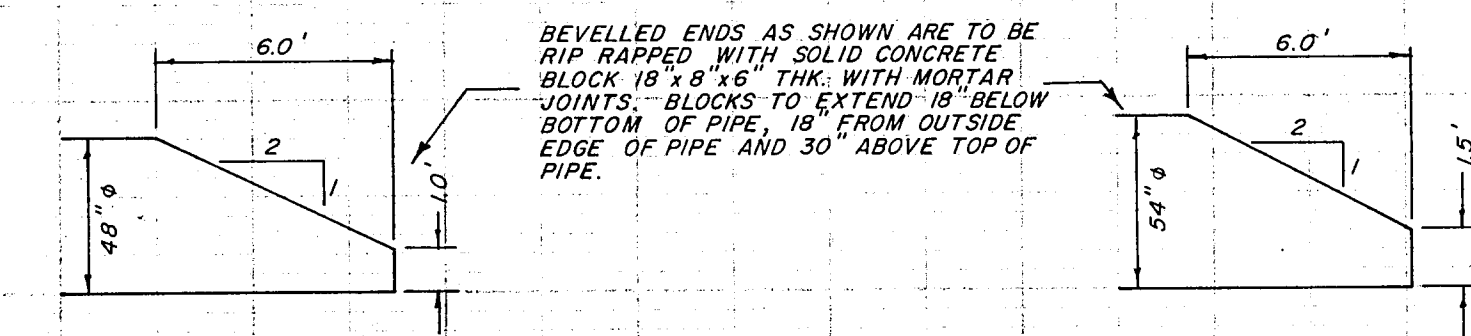
48" INCH PIPE



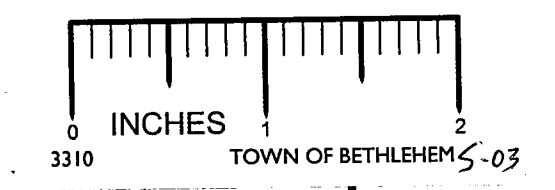
54" INCH PIPE



TWIN CULVERT DETAIL (NO SCALE)



CHANNEL PROFILE & CROSS-SECTION



FINAL - April 30, 1980 a.k.e.
CHADWICK SQUARE
SECTION ONE

Scale: Vert. 1" = 5', Horiz. 1" = 50'

TOWN OF BETHLEHEM

COUNTY OF ALBANY

DATE OCT. 25, 1977

SHEET 5 OF 13

DWG NO.: 77-228

Date	Record of Work	Drawn	Chkd	App'd	Date	Record of Work	Drawn	Chkd	App'd
11-9-77	ADDED CONST. NOTES		J.E.F.		4/21/80	REVISED CHANNEL SLOPE	G.P.D.	J.E.F.	
11/6/77	REVISED CULVERTS		J.E.F.						
3/28/78	ADDED STANDARD DETAILS TO SET		J.E.F.						
3-27-78	REVISED NOTE DESCRIPTION OF CHANNEL RIP-RAP		J.E.F.						
1/12/80	MISC. CHANNEL REVISIONS, EXTENDED 48" CMP. ADDED TWIN CULV. DETAIL		J.E.F.						
2/28/80	RAISED WEMPLE CULVERT, LOWERED COMMONWEALTH CULVERT-REVISED CHANNEL GRADES	D.B.S.	J.E.F.						

Drawn by _____ Checked by _____

C.T. MALE ASSOCIATES, P.C.
3000 TROY ROAD, SCHENECTADY, N.Y. 12309
PROFESSIONAL ENGINEERS LAND SURVEYORS LAND PLANNING CONSULTANTS

