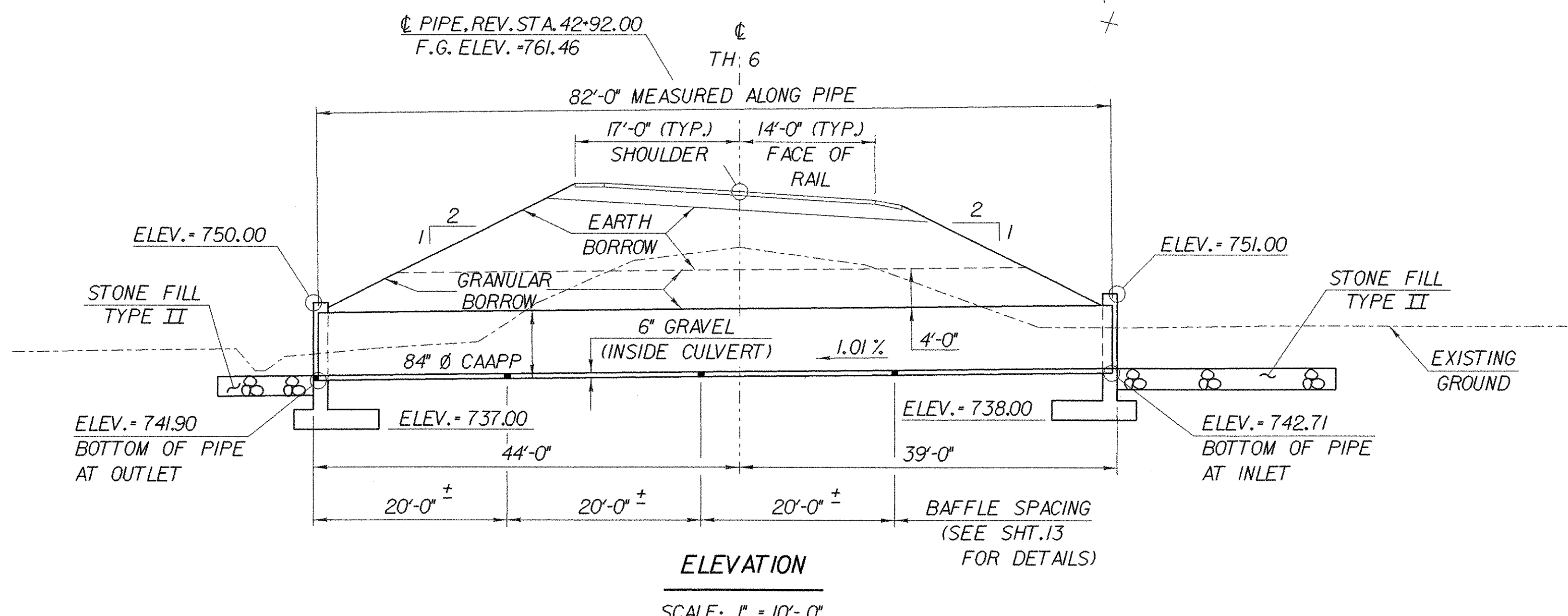


PLAN
SCALE: 1" = 10'-0"



ELEVATION
SCALE: 1" = 10'-0"

~ HYDRAULIC DATA ~

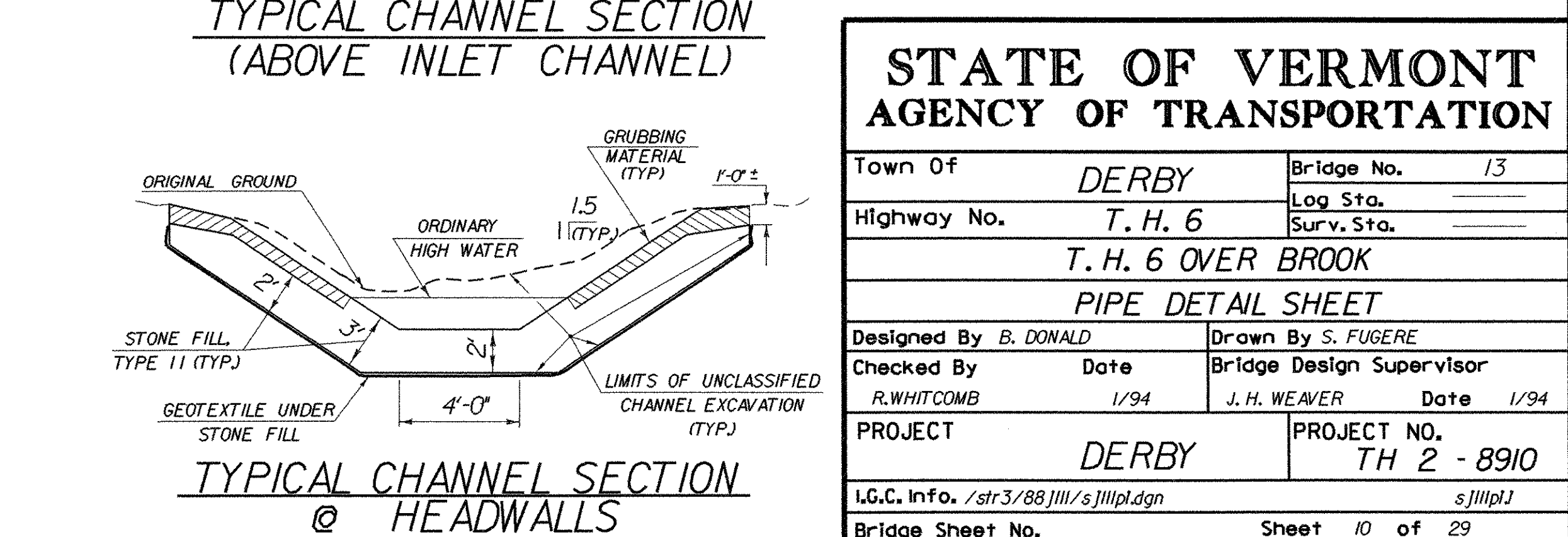
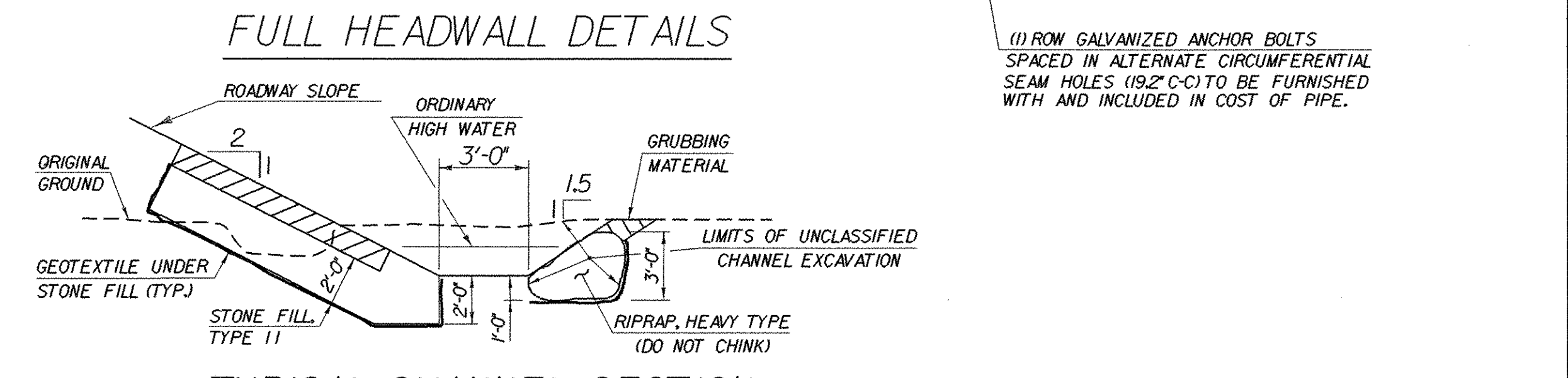
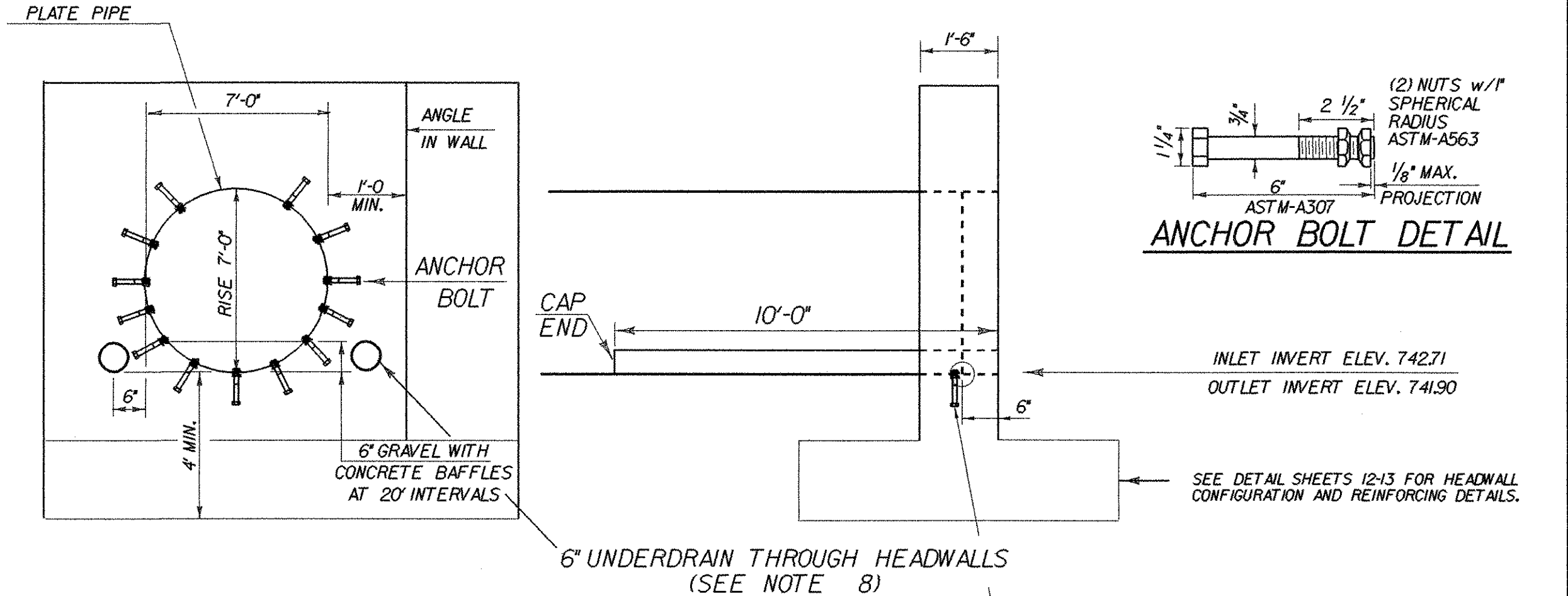
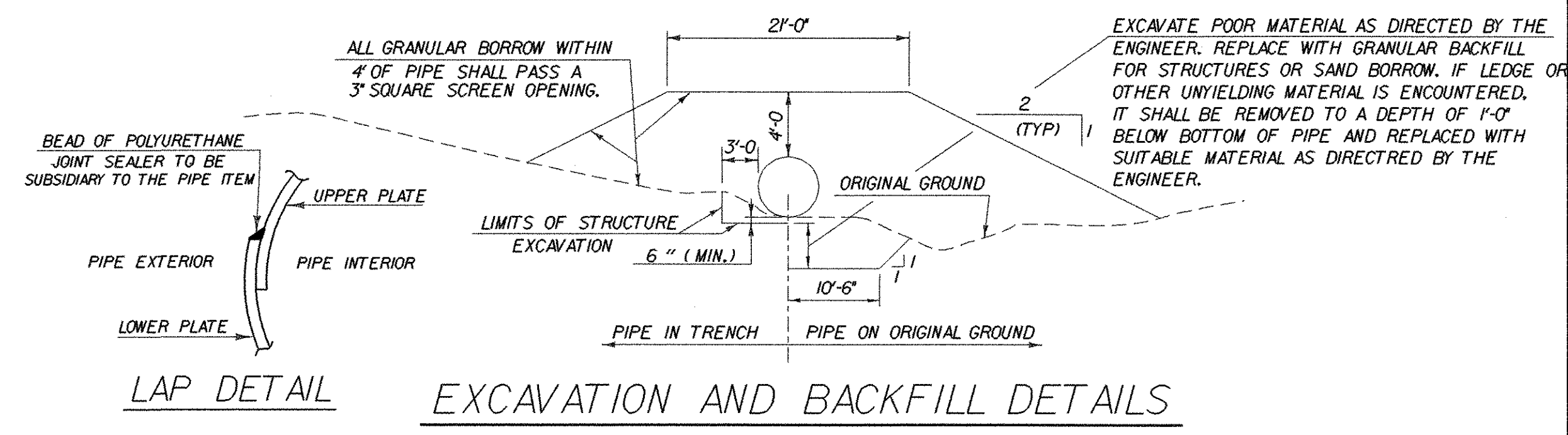
DRAINAGE AREA	1.32 SQ. MI.	DESIGN FLOW Q25	DESIGN OUTLET VELOCITY	10.3 FPS
DESIGN TAILWATER DEPTH Q25	4.5'	ELEVATION	746.4	
ORDINARY HIGH WATER DEPTH	2.4'			
Q 10 FLOW	200 CFS	HEADWATER ELEVATION	748.5	
Q 25 FLOW	270 CFS	HEADWATER ELEVATION	749.8	
Q 50 FLOW	320 CFS	HEADWATER ELEVATION	750.7	
Q 100 FLOW	370 CFS	HEADWATER ELEVATION	751.6	
COMMENTS				

DETAILS OF STRUCTURAL PLATE PIPE CULVERTS

	ALUMINUM
CORRUGATIONS	9" X 2 1/2"
SIZE OF PIPE OR PIPE ARCH	84" Ø
WATERWAY AREA	38.1 SF
PLATE THICKNESS (COATED)	0.125"
BOLT SIZE	3/4" Ø
WEIGHT PER LINEAR FOOT	61.3 LBS
TOTAL WEIGHT	5027 LBS

~ NOTES ~

- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 1990, AND THE LATEST A.A.S.H.T.O. STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES. DESIGN IS FOR HS-25 LIVE LOAD.
- UNLESS OTHERWISE INDICATED, 5 1/3 BOLTS PER LINEAR FOOT ARE REQUIRED ALONG THE LONGITUDINAL SEAMS FOR ALUMINUM PLATES. ALL CONNECTIONS FOR STRUCTURAL PLATE SECTIONS SHALL BE MADE WITH BOLTS MEETING ASTM A-307 (GALVANIZED AFTER FABRICATION).
- IN LONGITUDINAL JOINTS LOCATED AT THE SPRING LINE OF PLATE PIPE ARCHES OR WITHIN 20° OF HORIZONTAL ON PIPES, THE BOLT NEAREST THE VISIBLE EDGE OF LAPPED JOINTS, AS VIEWED FROM INSIDE THE PIPE, SHALL BE PLACED IN THE VALLEY OF THE CORRUGATIONS.
- WHEN NORMAL CONSTRUCTION OR REGULAR TRAFFIC IS MAINTAINED OVER THE PIPE THE CONTRACTOR SHALL MAINTAIN A MINIMUM COVER OF THREE (3) FEET OF COMPACTED MATERIAL.
- ALUMINUM PIPE WHICH IS TO BE IN CONTACT WITH CONCRETE SHALL HAVE CONTACT SURFACES THOROUGHLY COATED WITH BITUMINOUS OR ASPHALTIC PAINT.
- PIPES SHALL BE FACTORY ELONGATED 5% (PIPE ARCHES SHALL NOT BE ELONGATED).
- THE ENDS OF THE PIPE SHALL BE CUT SQUARE.
- THE CONTRACTOR SHALL INCLUDE AT THE OUTLET END, A 10 FOOT PIECE OF 6" UNDERDRAIN EACH SIDE ON SAME GRADIENT AS CULVERT CONFORMING TO SUBSECTIONS 710.0. THE COST SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE CULVERT PIPE.



**STATE OF VERMONT
AGENCY OF TRANSPORTATION**

Town Of	DERBY	Bridge No.	13
Highway No.	T. H. 6	Log Sta.	
T. H. 6 OVER BROOK			
PIPE DETAIL SHEET			
Designed By	B. DONALD	Drawn By	S. FUGERE
Checked By	R. WHITCOMB	Date	1/94
		Bridge Design Supervisor	J. H. WEAVER
		Date	1/94
PROJECT	DERBY	PROJECT NO.	TH 2 - 8910
I.G.C. Info.	/str3/88/jll/sjllp.dgn	s/jllp/j	
Bridge Sheet No.		Sheet	10 of 29