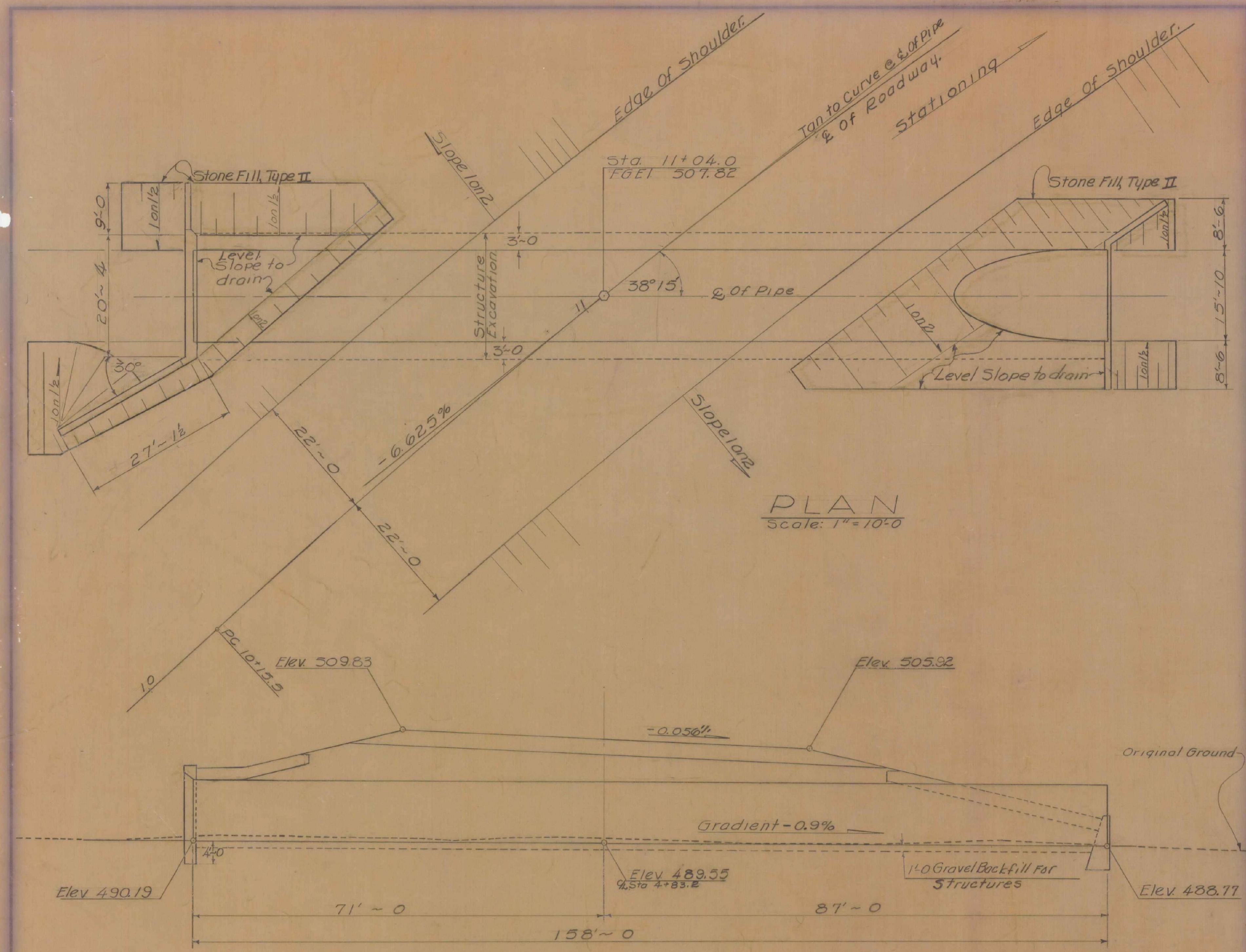
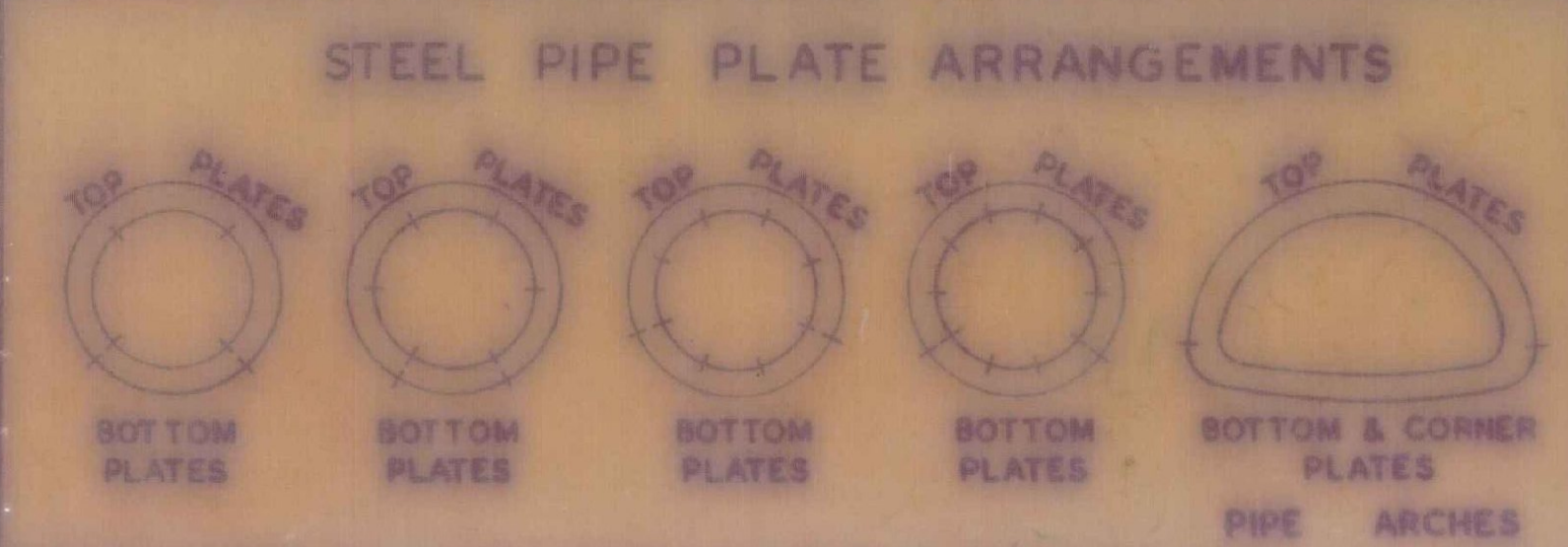




PLAN
Scale: 1"=10'-0"

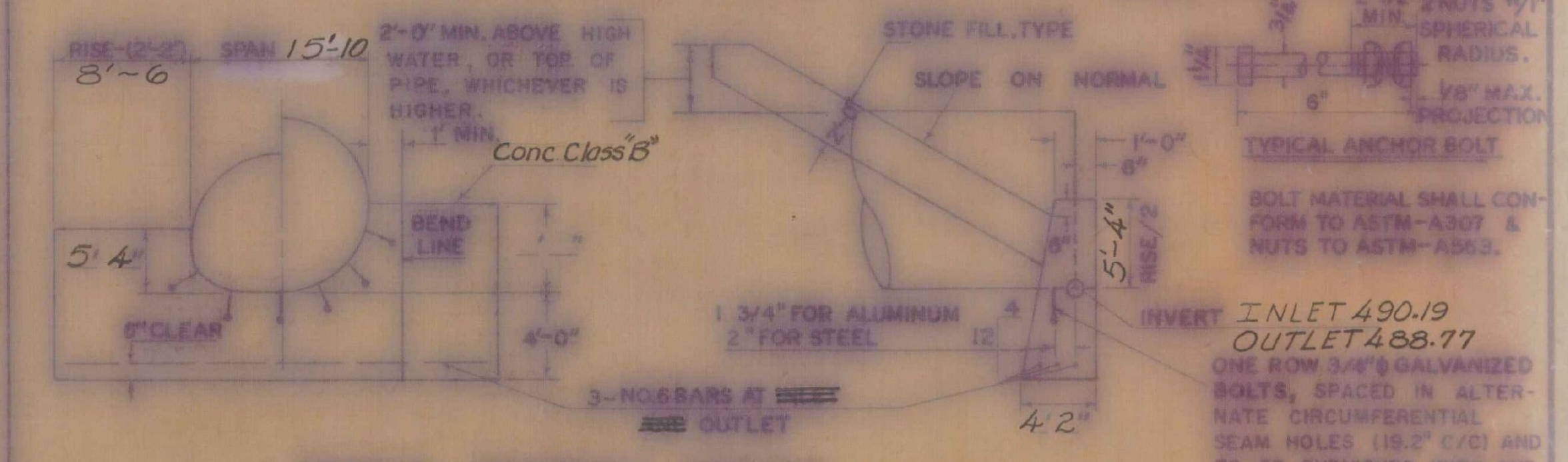
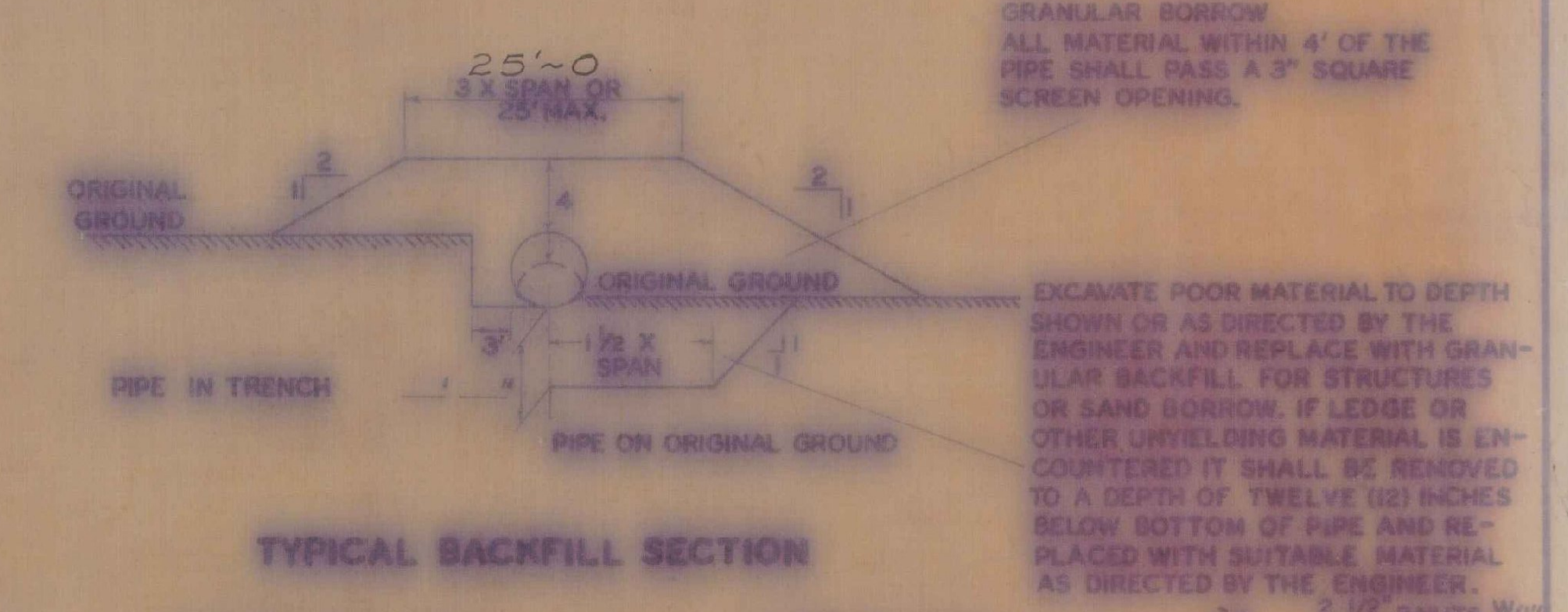
ELEVATION ALONG & OF PIPE
Scale: 1"=10'-0"



DETAILS OF STRUCTURAL PLATE PIPE CULVERTS				
PIPE DATA	STEEL	ALUMINUM	HYDRAULIC	DATA
CORRUGATIONS	6 X 2			
DIAMETER OF PIPE	15'-10" X 10'-8"			
PIPE ARCH	0.168" COATED THICKNESS			
PLATE THICKNESS	3/4"			
BOLT SIZE	4 3/2"			
WT. LIN. FT.	68,256			
TOTAL WEIGHT				

DRAINAGE AREA	5.1	SQ. MI.
DESIGN FREQUENCY-C	50	
DESIGN FLOW & HEADW. DEPTH	1000	8.6 FT.
CHECK DISCHARGE & HEADW. DEPTH	1200	9.8 FT.
TAILWATER DEPTH AT DESIGN FLOW	5.2	FT.
OUTLET VELOCITY AT DESIGN FLOW	12.9	FT./SEC
WATERWAY AREA	1.33	SQ. FT.

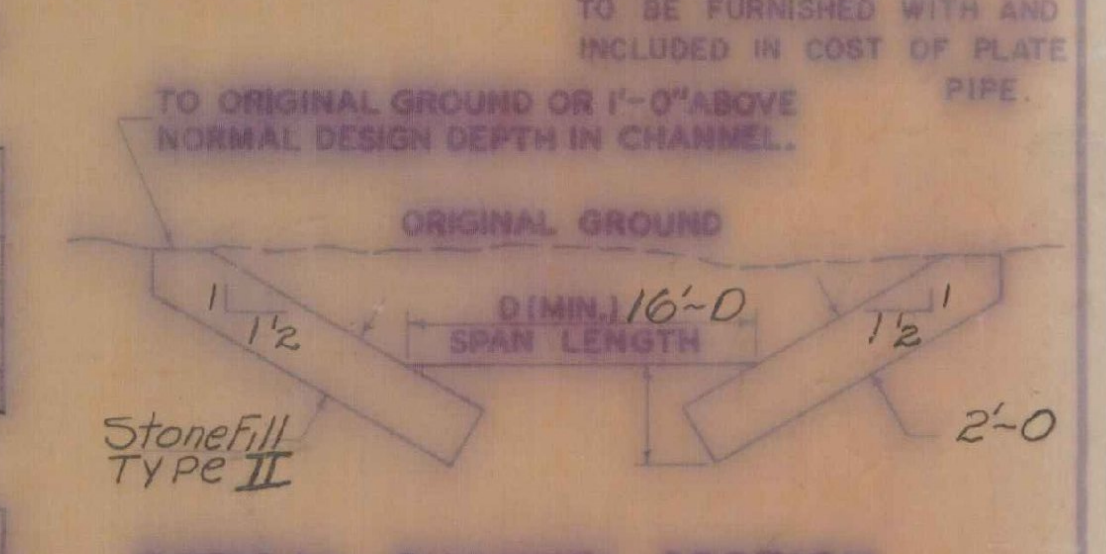
- NOTES
- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION DATED MAR. 1976 AND THE A.A.S.H.O. STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES DATED 1973 AND ITS LATEST REVISIONS. DESIGN IS FOR HS-20 LIVE LOADING.
 - UNLESS OTHERWISE INDICATED FOUR (4) BOLTS PER LINEAR FOOT FOR STEEL PLATES AND FIVE AND ONE THIRD (5 1/3) BOLTS FOR ALUMINUM PLATES ARE REQUIRED ALONG THE LONGITUDINAL SEAMS. ALL CONNECTIONS FOR STRUCTURAL PLATE SECTIONS SHALL BE MADE WITH GALVANIZED ASTM A-325 BOLTS (AASHTO M164).
 - WHEN NORMAL CONSTRUCTION OR REGULAR ROADWAY TRAFFIC IS MAINTAINED OVER THE PIPE THE CONTRACTOR SHALL MAINTAIN A MINIMUM COVER OF 4 FEET OF COMPACTED MATERIAL.
 - ALUMINUM PIPE THAT IS TO BE IN CONTACT WITH CONCRETE SHALL HAVE CONTACT SURFACES THOROUGHLY COATED WITH ZINC CHROMATE, OR BITUMINOUS, OR ASPHALTIC PAINT.
 - PIPES SHALL BE FACTORY ELONGATED 5% (PIPE ARCHES SHALL NOT BE ELONGATED).
 - Removal Of Existing Superstructure. To be paid for under Item 202.20
 - Remove Abutments Four (4) feet below Finish Grade as Solid Rock Excavation; Item 203.16



REINFORCING STEEL SCHEDULE				
NO.	SIZE	LENGTH	MARK	TYPE

* Roadway Quantity.

ESTIMATED QUANTITIES				
NO.	ITEM	UNIT	TOTAL	FINAL
202.20	Removal Of Existing Superstructure	Ea	1	1
*203.16	Solid Rock Excavation	Cy	10	0
203.21	Unclassified Channel Excavation	Cy	280	286
*203.32	Granular Borrow	Cy	1790	1790
204.25	Structure Excavation	Cy	590	383
204.30	Gravel Backfill For Structures	Cy	130	124
501.25	Concrete Class "B"	Cy	94	85.50
501.15	Reinforcing Steel	Lbs	5010	5610
511.15	15'-10" X 10'-8" X 158' C.G.M.P.A.	LS.	1	1
	(C=0.168" Wt=68,256)			
613.11	Stone Fill, Type II	Cy	190	219
306.10	OVERHAUL (3.2 MILES)	Cy/Mi	1196	0



STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

TOWN OF DUXBURY Bridge No. 193
Highway No. VT. 100 Log Sta. 293+94
Surf. Sta. 11+04

VT100 OVER CROSSETT BROOK
15'-10" X 10'-8" C.G.M.P.A. DETAILS

Designed by G.E. Hopkins Drawn by G.E. Hopkins
Checked by Peabody date 1-10-75 U. Wood
PROJECT NO. DUXBURY-MORETOWN RS-0213(3)
Bridge Sheet No. BR100 Sheet 25 of 120