



Notes:
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
Drain holes shall conform to the requirements of Article 503.11 of the Standard Specifications. Cost shall be included in the cost of Concrete Box Culverts.

*Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a	44	#7	25'-0"		
a ₁	44	#7	23'-4"		
d	46	#4	4'-6"		
d ₁	112	#4	1'-2"		
h	248	#4	5'-8"		
h ₃	48	#6	8'-0"		
h ₄	48	#6	11'-8"		
h ₅	10	#6	22'-3"		
v	92	#6	6'-4"		
v ₁	16	#4	9'-3"		
Concrete Box Culverts				Cu. Yd.	39.2
Reinforcement Bars				Pound	8240

