



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.
Bars indicated thus 21x3-#5 etc. indicates 21 lines of bars with 3 lengths per line.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	206	#6	21'-0"	
a1	206	#5	19'-8"	
d	40	#4	4'-6"	
h	300	#5	27'-1"	
h1	18	#6	25'-3"	
h2	14	#5	8'-0"	
h3	12	#5	11'-6"	
h4	16	#5	8'-0"	
h5	10	#5	7'-6"	
s	26	#4	4'-7"	
s1	26	#4	4'-5"	
v	326	#6	4'-7"	
v1	16	#4	7'-1"	
Concrete Box Culverts			Cu. Yd.	134.4
Reinforcement Bars			Pound	22950