



Coarse aggregate full length of both headwalls. To be placed by Grading Contractor. Cost included with Concrete Box Culverts.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a	40	#5	13'-2"	C	
a ₂	20	#5	12'-0"	—	
a ₃	26	#4	12'-0"	—	
d	26	#4	4'-6"	L	
d ₁	112	#4	1'-2"	—	
h	136	#4	5'-9"	—	
h ₁	28	#4	8'-0"	—	
h ₂	32	#4	8'-6"	—	
h ₃	10	#6	11'-2"	—	
v	76	#4	4'-1"	—	
v ₁	16	#4	7'-0"	—	
Concrete Box Culverts				Cu. Yd.	14.2
Reinforcement Bars				Pound	2480

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.