



BILL OF MATERIAL
(One end section)

Bar	No.	Size	Length	Shape
a1	20	#6	6'-7"	U
a2	4	#4	6'-0"	U
d	5	#4	4'-6"	L
h	5	#5	5'-9"	—
h1	8	#4	5'-9"	—
h2	8	#4	5'-9"	—
h3	10	#4	8'-0"	—
h4	2	#6	5'-1"	—
h5	2	#6	5'-1"	—
h6	5	#4	7'-0"	—
h7	10	#4	8'-0"	—
h8	5	#4	7'-0"	—
v	24	#4	2'-5"	—
v1	8	#4	6'-1"	—
s	4	#4	2'-5"	U
q	4	#4	2'-2"	U
Box Culvert End Section, Culvert No. 4			Cu. Yd.*	7.2
Reinforcement Bars			Pound	480.0
Concrete Collar			Cu. Yd.*	0.26
Remove Concrete Box Culvert End Section			EACH	1

* All Class SI concrete and reinforcement bars required are included in the Pay Item "Box Culvert End Section, No. #4" (EACH). All Concrete Collars are paid for as "Concrete Collar" (Cu. Yd.).

DESIGN STRESSES
fy = 60,000 psi
f'c = 3,500 psi

LOADING HS 20-44 & ALT.

END SECTION DETAIL
3'X2' PRECAST BOX CULVERT
F.A.P. ROUTE 709 - SECTION (101, 102X)R,R-2
MCLEAN COUNTY STATION 588+29.00
CULVERT NO. 13