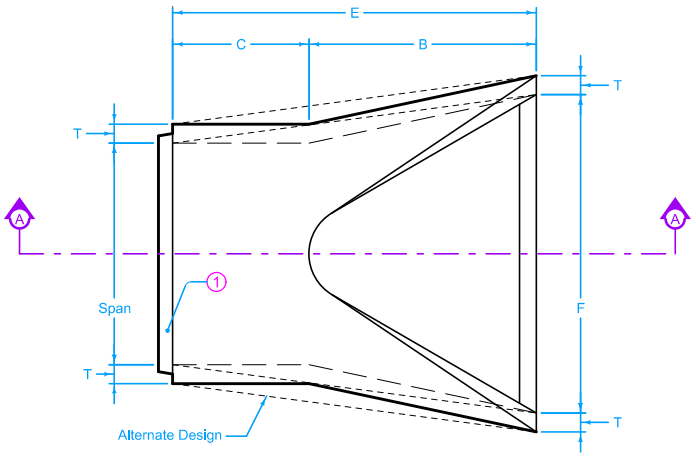
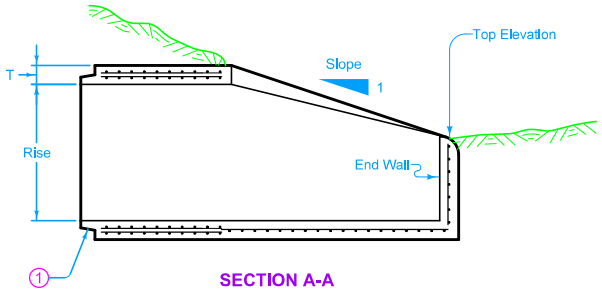
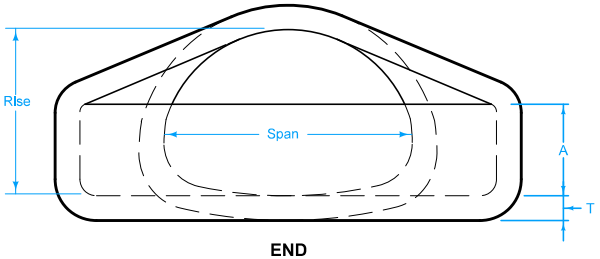
DESIGNER INFO



PLAN



SECTION A-A



END

Comply with AASHTO M 206 for Apron Reinforcement.

Dimension "E" shown is minimum and is considered the design length. Appropriately adjust for any difference between the actual length of concrete apron installed and the length indicated hereon for the length of concrete culvert pipe furnished.

Install connected pipe joints as shown on DR-121.

(1) Tongue end on inlet end section. Groove end on outlet end section. Inlet end section shown.

NOMINAL DIMENSIONS SPAN X RISE Inches	EQUIVALENT DIAMETER Inches	SPAN Inches	RISE Inches	SLOPE	APPROXIMATE DIMENSIONS Inches					
					(T)	(A)	(B)	(C)	(E)	(F)
22 X 14	18	22	13 1/2	3:1	2 1/2	7	27	45	72	36
29 X 18	24	28 1/2	18	3:1	3	8 1/2	39	33	72	48
37 X 23	30	36 1/4	22 1/2	3:1	3 1/2	9 1/2	50	46	96	60
44 X 27	36	43 3/8	26 5/8	3:1	4	11 1/8	60	36	96	72
52 X 32	42	51 1/8	31 5/16	3:1	4 1/2	15 13/16	60	36	96	78
59 X 36	48	58 1/2	36	3:1	5	21	60	36	96	84
65 X 40	54	65	40	3:1	5 1/2	25 1/2	60	36	96	90
73 X 45	60	73	45	3:1	6	31	60	36	96	96
88 X 54	72	88	54	2:1	7	31	60	39	99	120
102 X 62	84	102	62	2:1	8	21 1/2	83	19	102	144

ARCH PIPE

Possible Contract Item:
Low Clearance Concrete Pipe Aprons

Possible Tabulations:
104-3
104-4

IOWA DOT

STANDARD ROAD PLAN

REVISION	
1	4-21-20

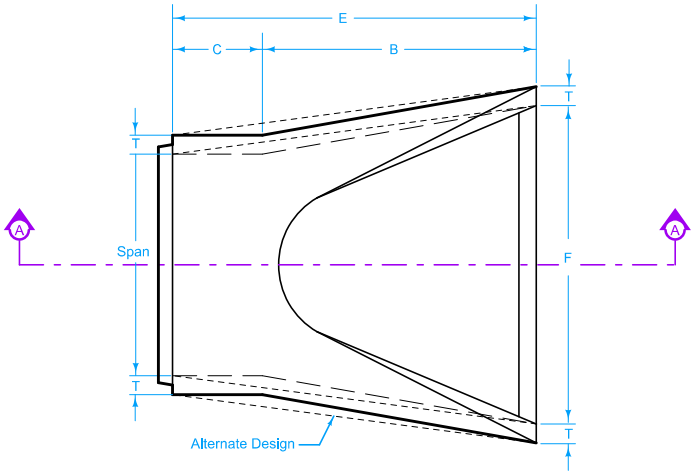
DR-206

SHEET 1 of 2

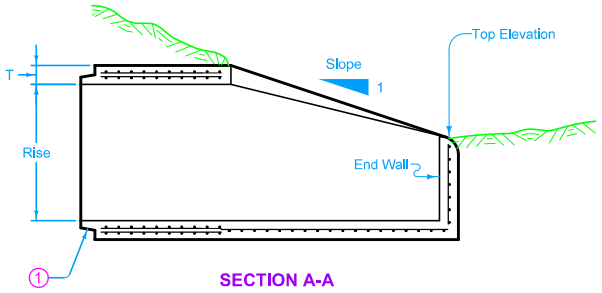
REVISIONS: Added Designer Info button.

APPROVED BY DESIGN METHODS ENGINEER

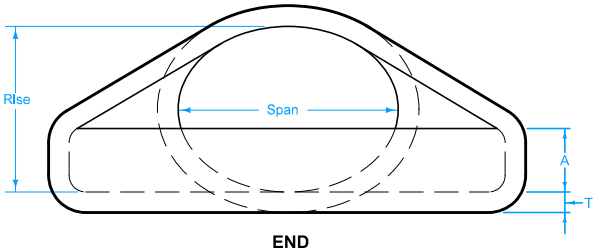
LOW CLEARANCE CONCRETE PIPE APRON WITH END WALL



PLAN



SECTION A-A



END

Comply with AASHTO M 207 for Apron Reinforcement.

Dimension "E" shown is minimum and is considered the design length. Appropriately adjust for any difference between the actual length of concrete apron installed and the length indicated hereon for the length of concrete culvert pipe furnished.

Install connected pipe joints as shown on DR-121.

(1) Tongue end on inlet end section. Groove end on outlet end section. Inlet end section shown.

EQUIVALENT DIAMETER Inches	SPAN Inches	RISE Inches	SLOPE	APPROXIMATE DIMENSIONS Inches					
				(T)	(A)	(B)	(C)	(E)	(F)
18	23	14	3:1	$2\frac{3}{4}$	$7\frac{1}{2}$	27	45	72	36
24	30	19	3:1	$3\frac{1}{4}$	$8\frac{1}{2}$	39	33	72	48
30	38	24	3:1	$3\frac{3}{4}$	$9\frac{1}{2}$	54	18	72	60
36	45	29	2.5 to 1	$4\frac{1}{2}$	$11\frac{1}{8}$	60	24	84	72
42	53	34	2.5 to 1	5	$15\frac{3}{4}$	60	36	96	78
48	60	38	2.5 to 1	$5\frac{1}{2}$	21	60	36	96	84
54	68	43	2.5 to 1	6	$25\frac{1}{2}$	60	36	96	90
60	76	48	2.5 to 1	$6\frac{1}{2}$	30	60	36	96	96
72	91	58	2.5 to 1	$7\frac{1}{2}$	36	63	33	96	108
90	113	72	1.6 to 1	9	$36\frac{1}{2}$	58	38	96	113

ELLIPTICAL PIPE

IOWA DOT

STANDARD ROAD PLAN

REVISION

1	4-21-20

DR-206

SHEET 2 of 2

REVISIONS: Added Designer Info button.

APPROVED BY DESIGN METHODS ENGINEER

LOW CLEARANCE CONCRETE PIPE APRON WITH END WALL