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SURVEYED BY _____
SUPERVISED BY _____
DESIGNED BY _____

DESIGN FEATURES RELATING TO CONSTRUCTION
OR TO REGULATION AND CONTROL OF TRAFFIC
MAY BE SUBJECT TO CHANGE AS DEEMED
NECESSARY BY THE DEPARTMENT

NO.	DATE	REVISION	BY	CHECKED	APPROVED
1					

ES-1A

SPAN X RISE	A	B	C	L	E
23" X 14"	6"	2'-3"	3'-10"	6'-1"	2'-8"
30" X 19"	9"	2'-11"	3'-2"	6'-1"	3'-6"
38" X 24"	10"	3'-8"	2'-6"	6'-2"	4'-0"
42" X 27"	12"	4'-6"	1'-8"	6'-2"	5'-0"
45" X 29"	13"	4'-11"	3'-3"	8'-2"	5'-6"
53" X 34"	15"	5'-3"	2'-11"	8'-2"	6'-0"

CONCRETE TO BE 4000 PSI MINIMUM

REV. 7/01
102.02

FLARED END-SECTION FOR 23" X 14" TO 53" X 34"
ELLIPTICAL CONCRETE PIPE CULVERTS

VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE	
302	

NEW 7-01
SPECIAL DESIGN SECTION
DRAWING NO. A 130

DATE	REVISION	BY	CHECKED

#10/ES/ST/MP