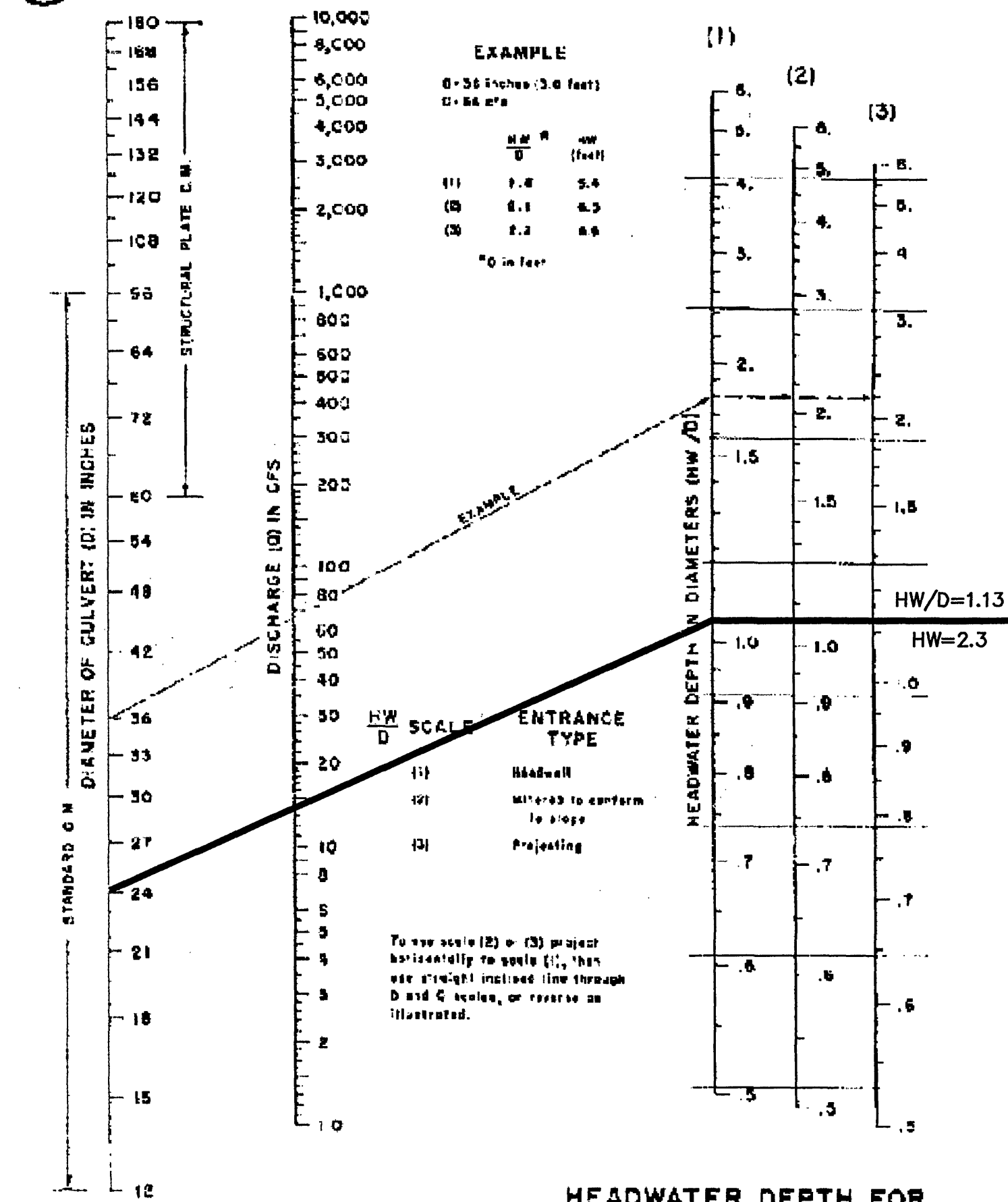


Appendix 8C-2 Inlet Control, Circular Corrugated Metal

CHART 2



HEADWATER DEPTH FOR
C. M. PIPE CULVERTS
WITH INLET CONTROL

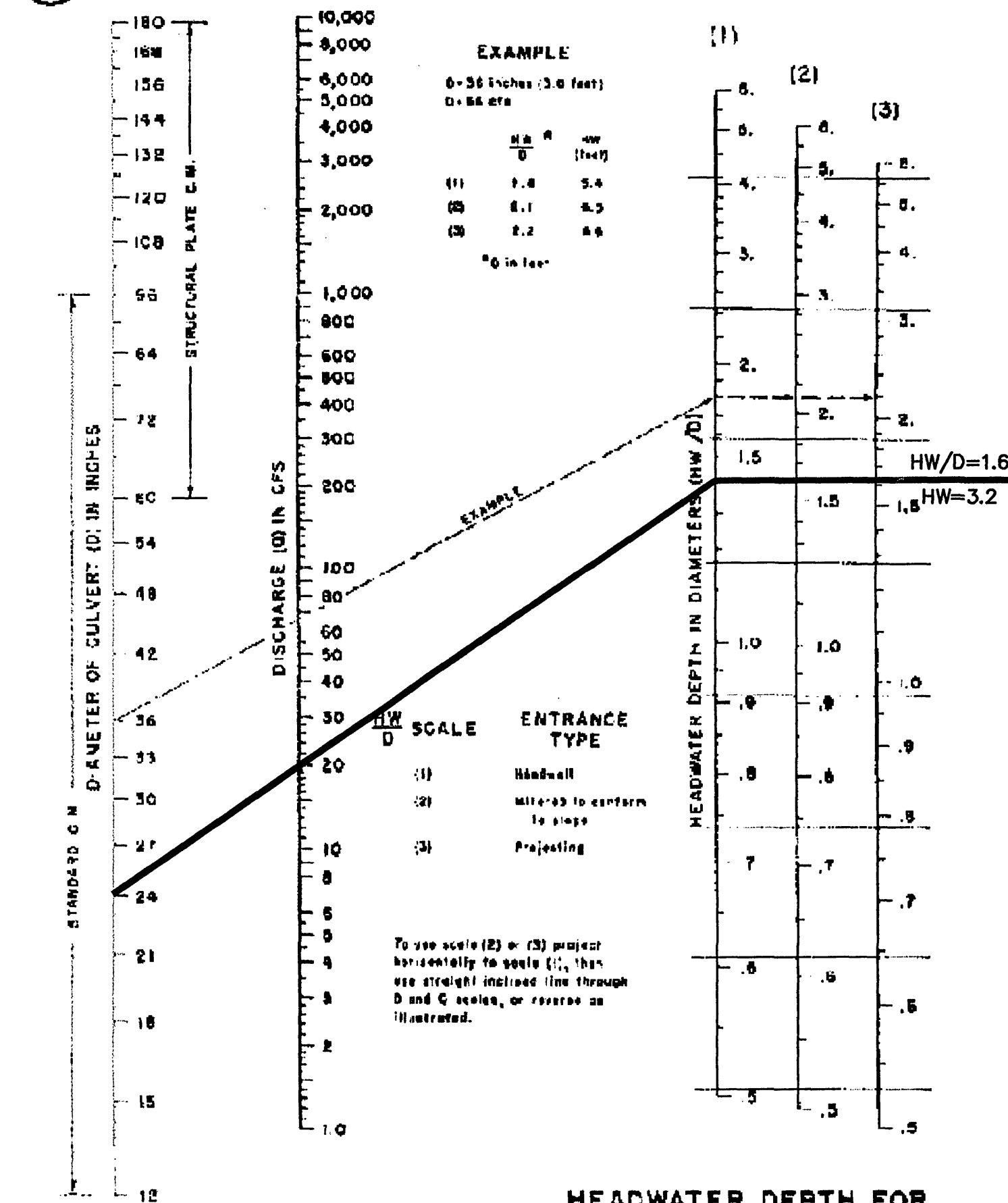
Source: FDS-5

CULVERT 1
98' - 24" CMP
INV IN: 966.00'
HW: 968.30'
SHOULDER: 970.70'

VDOT Drainage Manual

Appendix 8C-2 Inlet Control, Circular Corrugated Metal

CHART 2



HEADWATER DEPTH FOR
C. M. PIPE CULVERTS
WITH INLET CONTROL

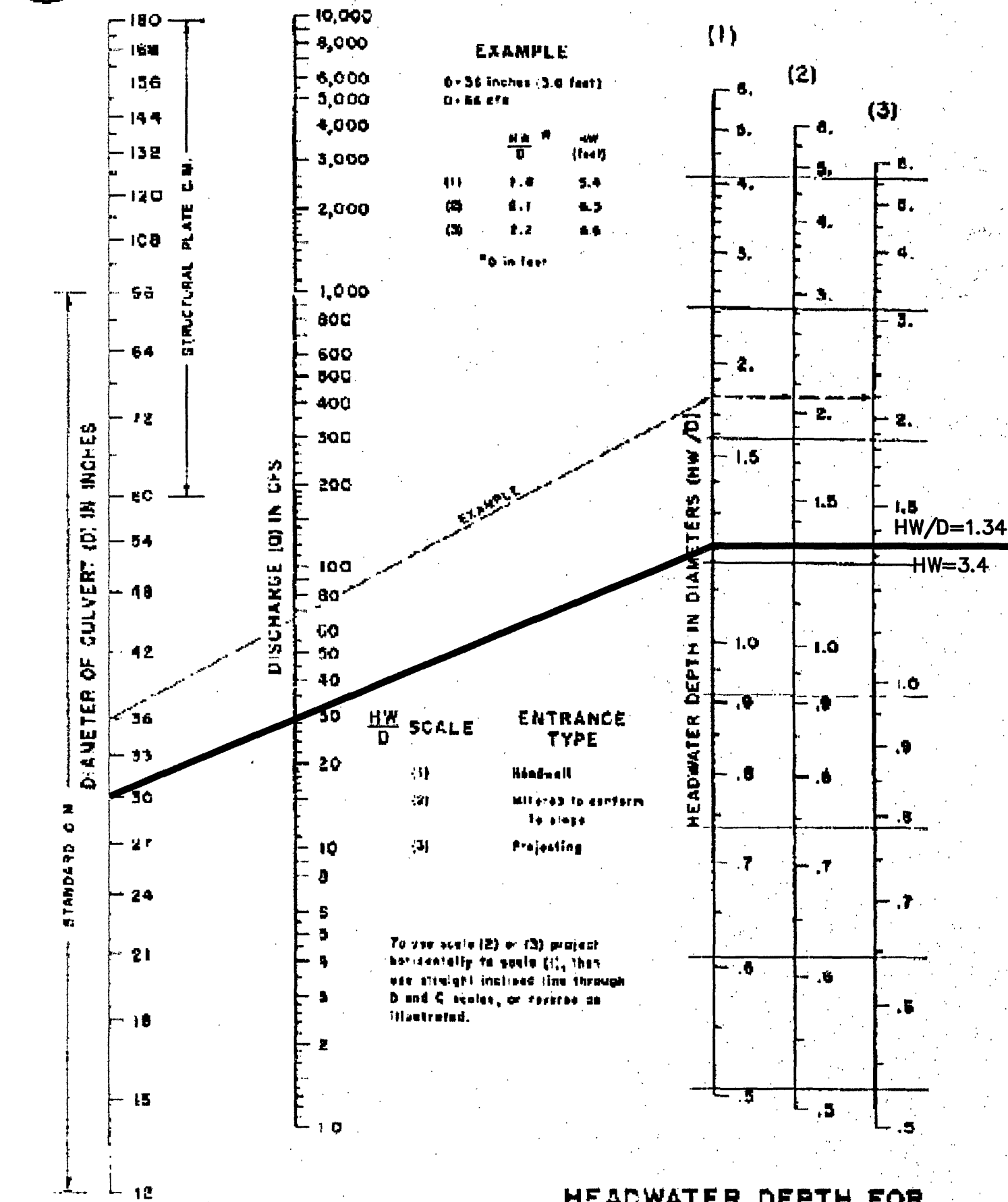
Source: FDS-5

CULVERT 2
EXISTING 80' - 24" CMP
INV IN: 947.50'
HW: 950.70'
SHOULDER: 952.00'

VDOT Drainage Manual

Appendix 8C-2 Inlet Control, Circular Corrugated Metal

CHART 2



HEADWATER DEPTH FOR
C. M. PIPE CULVERTS
WITH INLET CONTROL

Source: FDS-5

CULVERT 3
60' - 30" CMP
INV IN: 951.50'
HW: 954.90'
SHOULDER: 956.00'

VDOT Drainage Manual

PARCEL NUMBER	AREA (ACRES)	GRASS (ACRES)	"C" (ACRES)	BLDG/PVT (ACRES)	"C" (ACRES)	"C" WEIGHTED	OVERLAND FLOW					CHANNEL FLOW					TWO YEAR STORM					10 YEAR STORM					25 YEAR STORM					100 YEAR STORM								
							LENGTH	BEGIN ELEV	END ELEV	SLOPE	"C"	"TC" MIN.	LENGTH	BEGIN ELEV	END ELEV	DIFF	"TC" MIN.	TOTAL "TC"	"B" 54.24	"D" 11.50	"E" 0.85	"I" IN/HR	"Q" CFS	"B" 48.34	"D" 10.00	"E" 0.74	"I" IN/HR	"Q" CFS	"B" 38.91	"D" 7.75	"E" 0.65	"I" IN/HR	"Q" CFS	"B" 30.77	"D" 5.00	"E" 0.55	"I" IN/HR	"Q" CFS		
CULVERT 1: AREA 1 THRU AREA 3																																								
	4.291	1.527	0.35	2.764	0.95	0.74	100	996	994	0.020	0.35	9.4	965	994	966	28	6.3	15.7					3.3	10.36					4.4	13.84				5.0	15.84				5.8	18.39
CULVERT 2: AREA 1 THRU AREA 8																																								
	8.300	5.040	0.35	3.260	0.95	0.59	100	996	994	0.020	0.35	9.4	1325	994	952	42	7.7	17.1					3.1	15.25					4.2	20.46				4.8	23.44				5.6	27.27
CULVERT 3: AREA 9 THRU AREA 14																																								
	12.991	9.833	0.35	3.158	0.95	0.50	200	1000	986	0.070	0.35	9.9	1050	986	940	46	5.7	15.6					3.3	21.15					4.4	28.26				5.0	32.33				5.8	37.54

CULVERT COMPUTATIONS
LAKEWATCH DRIVE (EXTENSION)
SECOND WATCH DRIVE
COMMERCIAL LOT C-27
AT
LAKEWATCH PLANTATION
PLANNED COMMERCIAL DEVELOPMENT
DEVELOPED BY: LAKE WATCH, L.L.C.
GILLS CREEK MAGISTERIAL DISTRICT
FRANKLIN COUNTY, VIRGINIA
JOB NO 21-04
MAY 15, 2007
SHEET 6 OF 32

