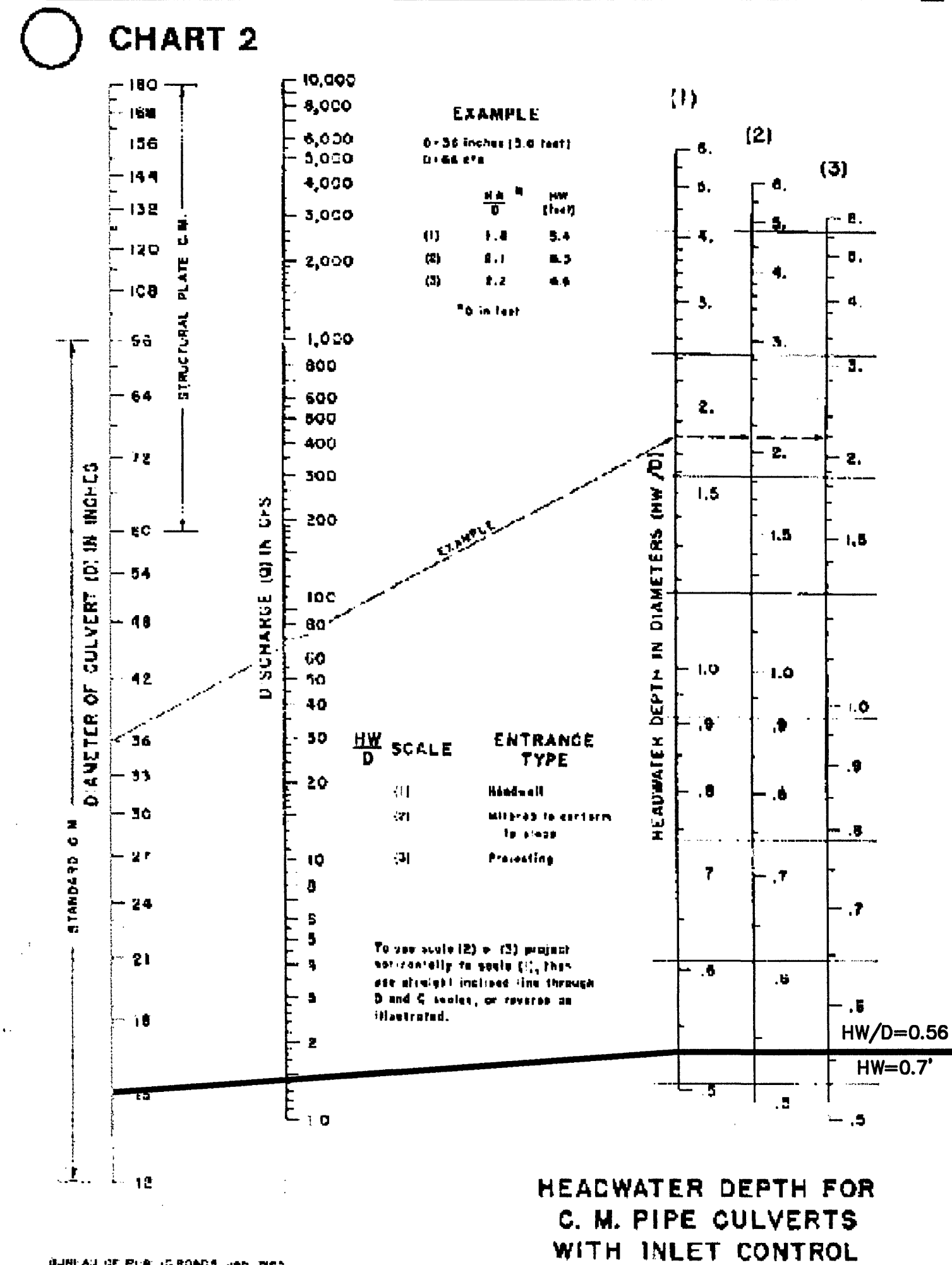
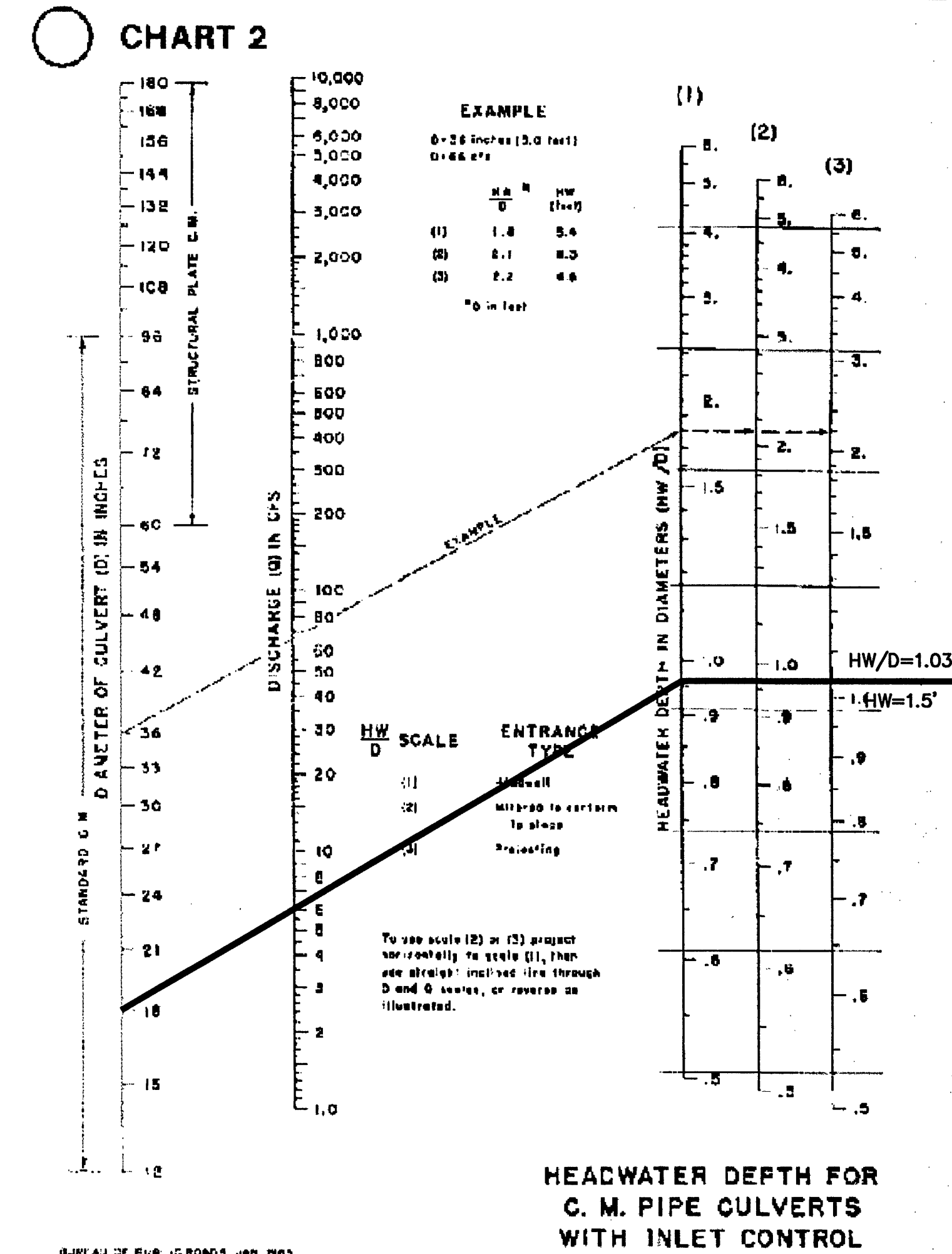




Source: HDS-5 CULVERT 7
 66' - 15" CMP @ 1.484%
 INV IN: 970.00', SHOULDER: 972.50'
 INV OUT: 969.00', SHOULDER 971.32'

1 of 1

VDOT Drainage Manual



Source: HDS-5 CULVERT 8
 77' - 18" CMP @ 1.948%
 INV IN: 957.50', SHOULDER: 960.50'
 INV OUT: 956.00', SHOULDER 960.50'

1 of 1

VDOT Drainage Manual

PARCEL	AREA	GRASS	"C"	BLDG/PVT	"C"	"C"	OVERLAND FLOW						CHANNEL FLOW						TWO YEAR STORM					10 YEAR STORM					25 YEAR STORM					100 YEAR STORM				
NUMBER	(ACRES)	(ACRES)		(ACRES)		WEIGHTED	LENGTH	BEGIN ELEV	END ELEV	SLOPE	"C"	"TC" MIN.	LENGTH	BEGIN ELEV	END ELEV	DIFF	"TC" MIN.	TOTAL "TC"	"B"	"D"	"E"	"I"	"Q"	"B"	"D"	"E"	"I"	"Q"	"B"	"D"	"E"	"I"	"Q"	"B"	"D"	"E"	"I"	"Q"
																			54.24	11.50	0.85	IN/HR	CFS	48.34	10.00	0.74	IN/HR	CFS	38.91	7.75	0.65	IN/HR	CFS	30.77	5.00	0.55	IN/HR	CFS
CULVERT 7: AREA 9																																						
	0.249	0.109	0.35	0.140	0.95	0.69							180	984	970	14	1.2	1.2				6.2	1.07				8.1	1.38				9.3	1.60				11.3	1.93
CULVERT 8: AREA 26 THRU AREA 32																																						
	1.661	0.975	0.35	0.686	0.95	0.60	200	990	979	0.055	0.90	4.0	350	979	960	19	2.3	6.3				4.7	4.65				6.1	6.07				7.0	6.92				8.1	8.04

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 8 OF 32

