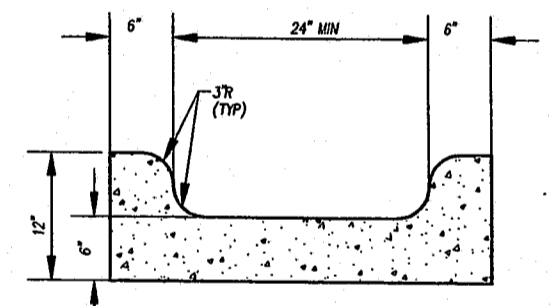


STORM DRAINAGE CHART

FROM	TO	TYPE/RIM	GRATE TYPE	DIA. (IN)	LENGTH (FT)	SLOPE (%)	Q10 (CFS)	UPSTREAM INVERT	D.STREAM INVERT
CB 44	CB 43	CB44/471.50	E	15	22	2.27	1.9	466.80	466.30
CB 43	CB 42	CB43/470.80	G	15	45	1.11	6.6	466.10	465.50
CB 42	CB 40	CB42/470.95	F	15	135	2.67	8.7	465.40	461.80
CB 41	CB 40	CB41/464.60	E	15	30	0.67	0.9	462.00	461.80
CB 40	CB 39	CB40/467.30	F	15	181	2.10	10.0	461.60	457.80
CB 39	CB 38	CB39/463.20	G	18	136	1.32	12.9	457.60	455.80
CB 38	CB 37	CB38/460.70	E	18	30	2.00	14.8	455.60	455.00
CB 37	CB 36	CB37/460.50	E	24	273	1.05	17.9	454.50	451.60
CB 36	CB 35	CB36/457.10	G	24	145	2.00	19.0	451.40	448.50
CB 35	CB 32	CB35/454.00	G	24	36	1.11	22.4	448.30	447.90
Y1 34	Y1 33	Y134/456.50 NCDOT 840.14	15	174	2.24	3.6	452.50	448.60	
Y1 33	CB 32	Y133/451.50 NCDOT 840.14	24	118	0.42	11.2	448.40	447.90	
CB 32	Y1 10	CB32/453.60	G	30	205	0.93	34.7	447.40	445.50
CB 31	CB 30	CB31/463.60	F	15	61	0.49	3.0	456.10	455.00
CB 30	CB 27	CB30/463.50	C	15	242	2.31	31.0	456.00	451.00
Y1 29	CB 28	Y129/459.00 NCDOT 840.14	18	129	0.85	10.4	454.70	453.60	
CB 28	CB 27	CB28/458.50	F	18	65	1.38	12.9	453.80	452.90
CB 27	CB 25	CB27/458.85	G	24	98	2.76	21.2	452.30	449.60
CB 26	CB 25	CB26/455.50	G	15	70	0.86	6.3	450.80	450.20
CB 25	CB 16	CB25/456.50	G	30	68	0.44	28.4	449.00	448.70
CB 24	CB 23	CB24/463.30	G	15	61	0.49	2.9	463.10	463.30
CB 23	CB 22	CB23/468.25	F	15	315	1.46	6.5	463.10	458.50
CB 22	CB 21	CB22/463.20	F	15	61	1.97	9.4	458.30	457.10
CB 21	CB 20	CB21/462.60	G	18	107	1.40	12.9	456.80	455.30
CB 20	CB 17	CB20/461.25	E	18	78	3.97	14.3	455.10	452.00
CB 19	CB 18	CB19/457.50	F	15	22	0.45	3.5	452.80	452.70
CB 18	CB 17	CB18/457.00	E	15	72	0.42	4.3	452.50	452.20
CB 17	CB 16	CB17/463.60	F	24	337	0.89	20.5	451.40	448.40
CB 16	CB 15	CB16/454.75	F	36	189	0.53	6.1	448.20	447.20
Y1 15A	CB 15	Y115A/453.00 NCDOT 840.14	24	93	0.43	13.0	448.60	448.20	
CB 15	CB 14	CB15/452.50	F	42	191	0.42	67.5	446.70	445.90
CB 14	CB 13	CB14/450.40	F	42	41	0.49	70.4	445.70	445.50
CB 13	CB 12	CB13/450.40	G	30	30	0.67	77.0	445.30	445.10
CB 12	Y1 10	CB12/451.40	F	42	56	0.71	79.9	444.90	444.50
Y1 11A	Y1 11	Y11A/448.50 NCDOT 840.14	30	81	0.49	18.8	446.50	446.10	
Y1 11	Y1 10	Y11/448.00 NCDOT 840.14	30	78	0.55	20.4	445.90	445.50	
Y1 10	Y1 9	Y10/448.00 NCDOT 840.14	48	40	2.00	136.3	444.00	443.20	

NOTES:
 -ALL CONSTRUCTION IS TO BE IN ACCORDANCE WITH CURRENT TOWN OF CARY STANDARD SPECIFICATIONS AND DETAILS
 -RIM ELEVATION GIVEN FOR CB IS TOP OF CURB (TCC STD 8.03) AND TOP OF BLOCK WEIR FOR TCC STD. 8.01 YL
 -ALL PIPE IS TYPE III RCP UNLESS NOTED OTHERWISE



CONCRETE FLUME DETAIL
W/1'-6" CURB & GUTTER

78-59-244
APPROVED
 1-15-99
 TM 1-19-99

GRAPHIC SCALE
 (IN FEET)
 1 inch = 60 ft.

WITHERS & RAVENEL Engineering & Surveying, Inc.
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No.	Description	Date	By
1	100 1st Review	8/12/98	JAB
2	100 2nd Review	11/23/98	JAB
3	100 Final Review	11/23/98	JAB
4	100 REVIEW	11/15/98	GAS

5 TOC COMMENTS 11/11/99 JAB

TEN-TEN / KILDAIRE APARTMENTS

STORM DRAINAGE, & GRADING PLAN

Designer	JEC	Scale	1"=60'	CAD File	SHT3.DWG
Drawn by	DOU	Date	6/19/98	Sheet No.	3
Checked by	JEC	Job No.	98135		