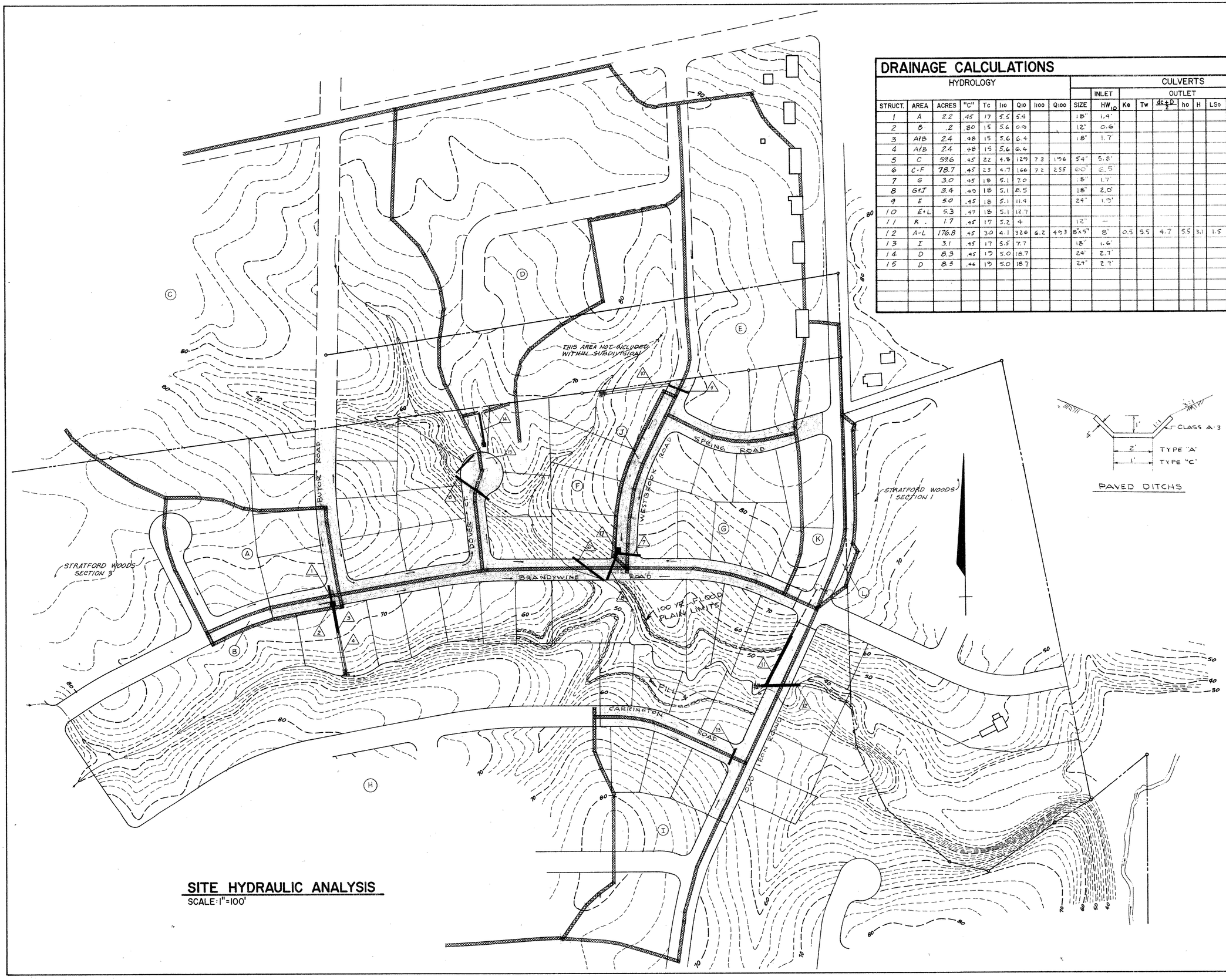
DRAINAGE CALCULATIONS

HYDROLOGY									CULVERTS											CHANNELS			REMARKS
										INLET	OUTLET												
STRUCT.	AREA	ACRES	"C"	Tc	I10	Q10	I100	Q100	SIZE	HW_{10}	Ke	Tw	$\frac{dc+D}{2}$	ho	H	LSo	HW	CONTROL HW	OUT VEL.	"N"	V2	Dio	
1	A	2.2	.45	17	5.5	5.4			18"	1.4'													
2	B	.2	.80	15	5.6	0.9			12"	0.6'													
3	A+B	2.4	.48	15	5.6	6.4			18"	1.7'													
4	A+B	2.4	.48	15	5.6	6.4														.015	6	0.5'	TYPE "C" DITCH
5	C	59.6	.45	22	4.8	129	7.3	196	54"	5.8'													
6	C-F	78.7	.45	23	4.7	166	7.2	255	60"	6.5													
7	G	3.0	.45	18	5.1	7.0			18"	1.7'													
8	G+J	3.4	.40	18	5.1	8.5			18"	2.0'													
9	E	5.0	.45	18	5.1	11.4			24"	1.9'													
10	E+L	5.3	.47	18	5.1	12.7														.015	7	0.8'	TYPE "A" DITCH
11	K	1.7	.45	17	5.2	4			12"	—													STORM SEWER D_i=0.4'
12	A-L	176.8	.45	30	4.1	326	6.2	493	8'x5'	8'	0.5	5.5	4.7	5.5	3.1	1.5	7.1	8.0'					HW_{100}=10.5' (EL. 52.3)
13	I	3.1	.45	17	5.5	7.7			18"	1.6'													
14	D	8.3	.45	15	5.0	18.7			24"	2.7'													
15	D	8.3	.46	15	5.0	18.7			24"	2.7'													



SITE HYDRAULIC ANALYSIS

SCALE: 1" = 100'

HYDRAULIC ANALYSIS MAP
STRATFORD WOODS
SECTION 2

SCALE: 1" = 100' CONTOUR INTERVAL 2'

LEGAT-ELROD & ASSOC., INC.

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