



GENTEMANN MANOR

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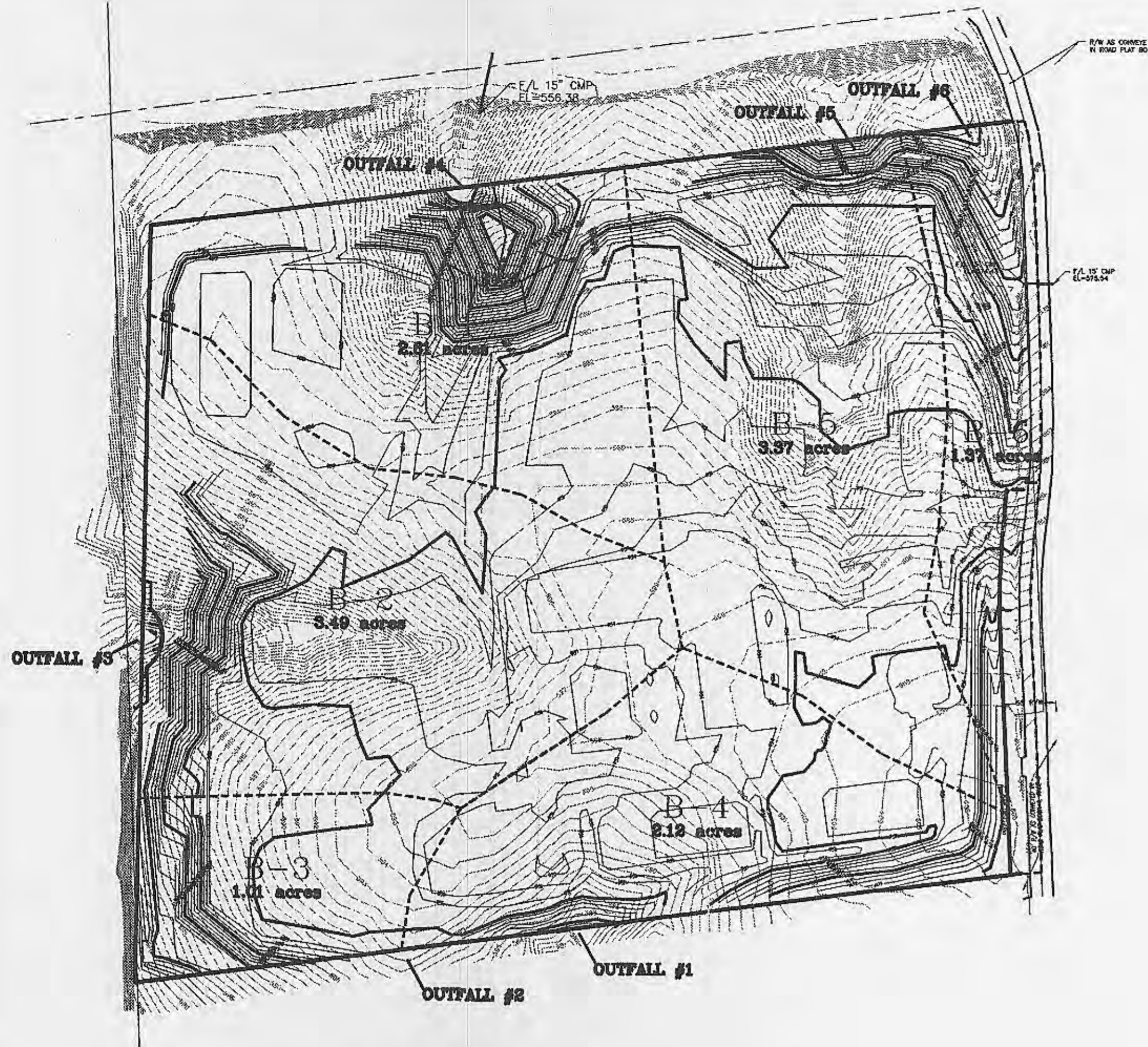
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1ST ISSUE
 08-JUL-03

REVISIONS
 ▲ 11-02-03
 ▲ 12-04-03
 ▲ 12-10-03 ADD. #1
 ▲ 01-02-04 ADD. #2
 ▲ 01-09-04 ADD. #3

SHEET NO.
C2.1

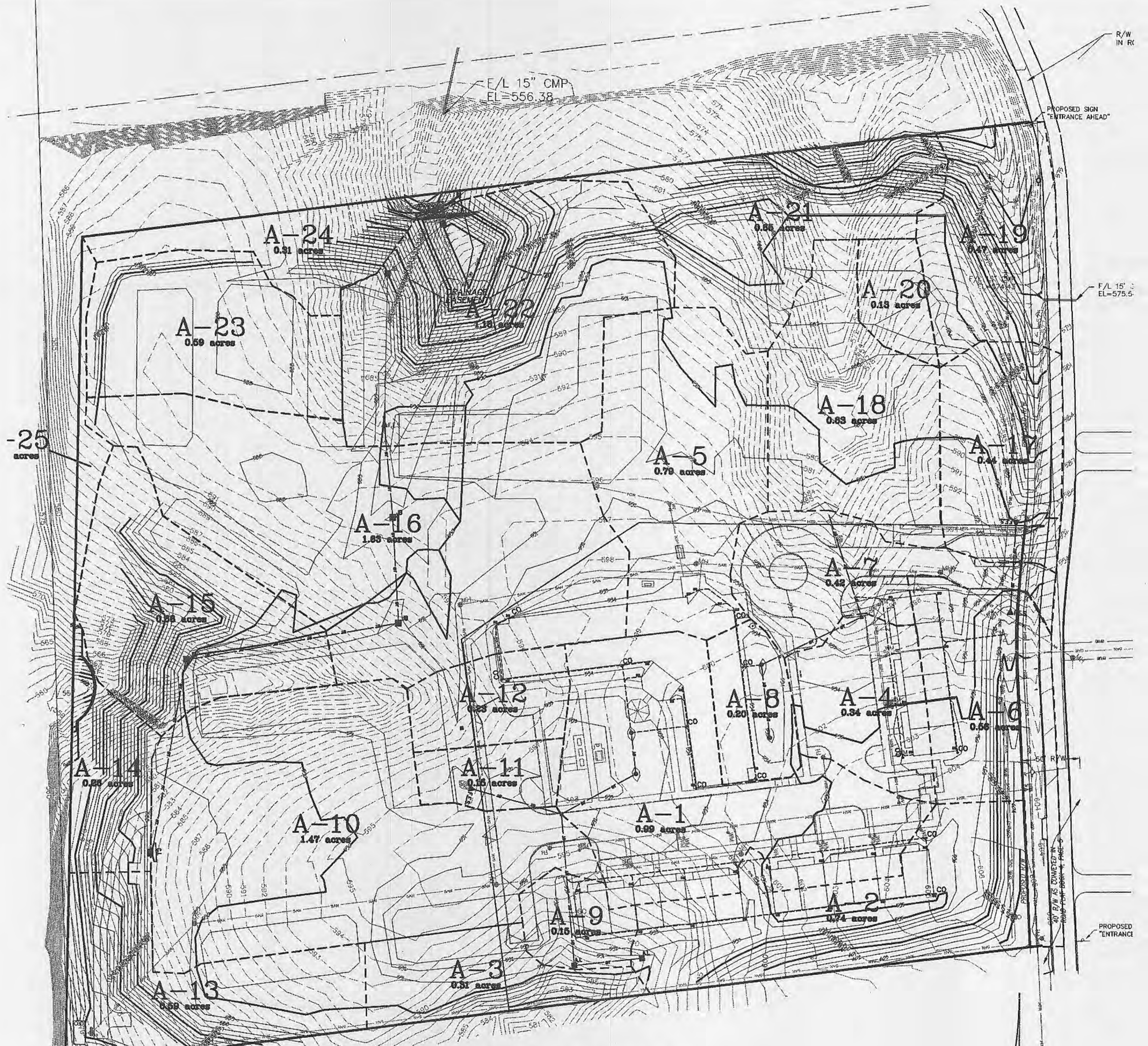
JOB NO. 2234 SHEET 8 OF 77



EXISTING DRAINAGE AREA
 SCALE: 1" = 100'

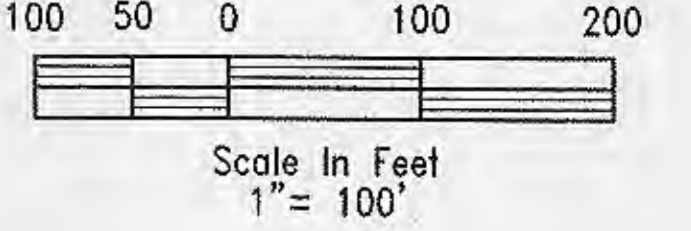
OUTFLOW	BEFORE	AFTER
PI ₂₅ = 2.31	Total acreage = 13.97	PI ₂₅ = 3.26
#1	2.12 ac 4.90cfs	0.31 ac 1.01cfs
#2	1.01 ac 2.33cfs	0.59 ac 1.92cfs
#3	3.49 ac 8.06cfs	2.49 ac 8.12cfs
#4	2.61 ac 6.03cfs	9.02 ac 5.79cfs ▲
#5	3.37 ac 7.78cfs	0.65 ac 2.12cfs
#6	1.37 ac 3.16cfs	0.91 ac 2.97cfs
TOTAL	32.27cfs	21.93cfs ▲

NOTE
 1. FOR MORE STORM DRAINAGE INFORMATION PLEASE SEE STORM DRAINAGE STUDY AUGUST 2003. (REVISED JANUARY 09, 2004) ▲



PROPOSED DRAINAGE AREA
 SCALE: 1" = 50'

STORM SEWER COMPUTATIONS																					
RETURN PERIOD = 25 YEAR, K = 1																					
SEWER LOCATION	DRAINAGE AREA		TIME OF FLOW (minutes)		RAINFALL		SEWER CHARACTERISTICS, N=0.012 HDPE														
	FROM	TO	DESIGNATION	AREA, A (acres)	COEFF., C	T ₁	T ₂	ACT. T _c T ₁ +T ₂	DESIGN T _c	INTENSITY, I (in./hr.)	INLET K.L.C.A	BYPASS	IN-PIPE K.L. Σ C.A	DIAMETER (inches)	CAPACITY, Q (cfs)	VELOCITY (fps)	SLOPE (%)	LENGTH (ft.)	FALL (ft.)	FLE _{up}	FLE _{dn}
LINE 1	AI-1-2	AI-1-1	A-2	0.74	0.66	9.56	0.49		10	8.59	3.79		3.79	15	8.85	7.05	1.53	58.87		585.50	584.60
	AI-1-1	CI-1-1	A-9	0.15	0.66	4.45	0.55		5	10.32	0.93		4.72	15	6.89	5.48	0.92	131.07		584.40	583.20
	CI-1-1	FES-1-1	A-3	0.31	0.66	4.63	0.37		5	10.32	1.92		6.64	18	8.86	5.01	0.61	62.45		583.00	582.50
LINE 2	AI-2-2	AI-2-1	A-8	0.20	0.66	4.45	3.55		8	9.21	0.55		0.55	15	7.82	6.38	1.25	63.97		589.00	588.20
	AI-2-1	CI-2-1	A-8	0.20	0.66	4.45	3.55		8	9.21	0.55		1.10	15	7.08	5.77	1.04	96.03		588.00	587.00
	CI-2-1	FES-2-1	A-4	0.34	0.66	6.02	0.02		6	9.92	2.02		3.12	18	10.68	6.04	0.85	93.38		586.80	586.00



SITE STORM DRAINAGE PLAN

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