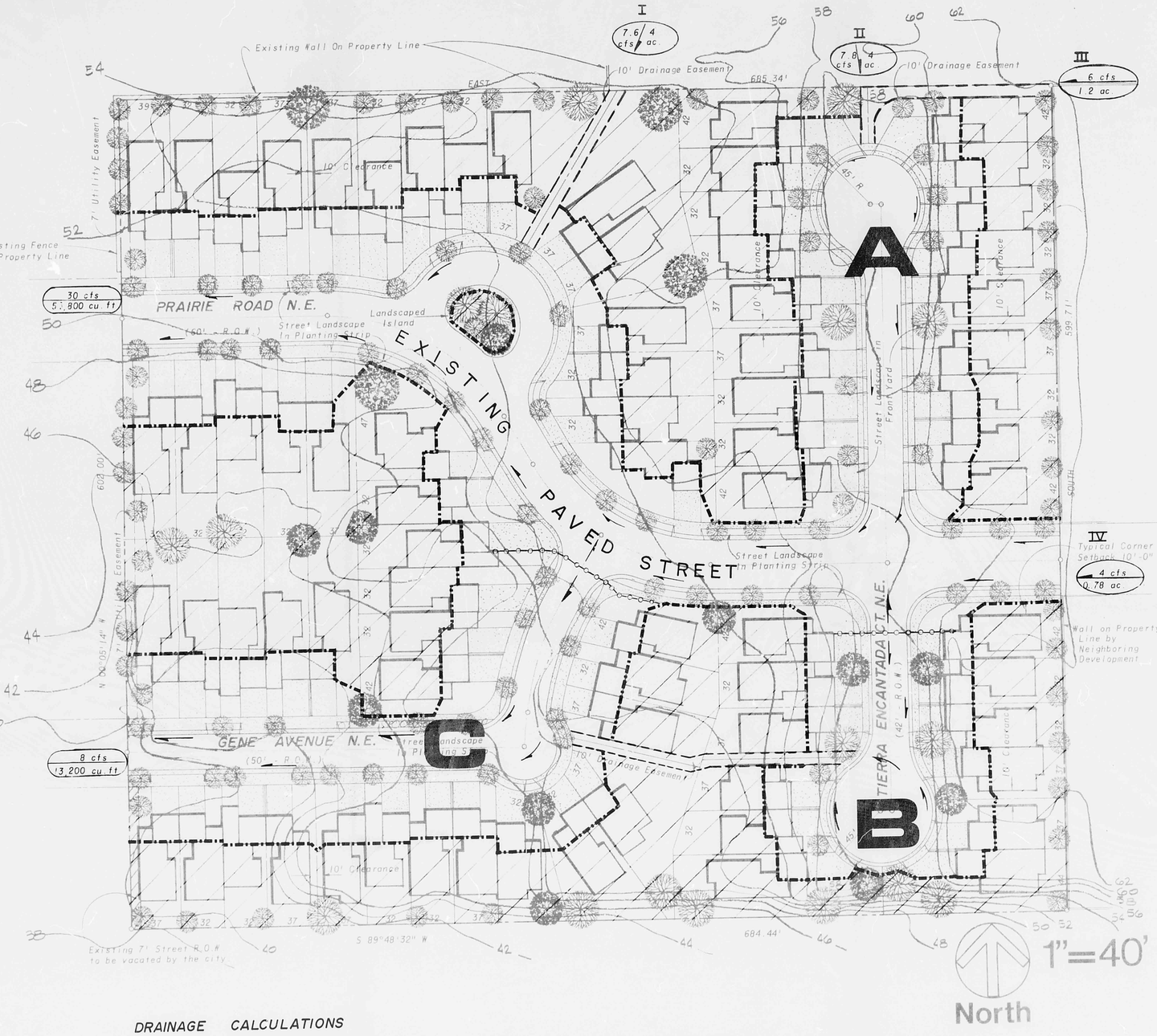
HYDROLOGY

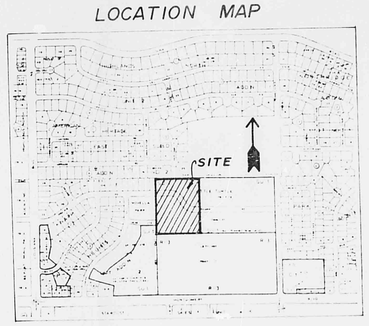
F19/D6a
TWO PLANS

F19/D6a

2 Plans



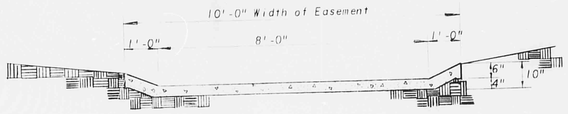
LOCATION MAP



LEGEND

- LIMITS OF AREA TO BE 100% PONDED
- WATER BLOCKS
- 6 cfs / 1.2 ac — OFFSITE FLOW RATE AND DRAINAGE AREA
- DIRECTION OF FLOW
- DRAINAGE EASEMENT WITH RUNDOWN
- 3.6 cfs / 8,040 cu. ft — FLOW RATE AND VOLUMES OF RUNOFF LEAVING SITE

DRAINAGE EASEMENT WITH RUNDOWN



DRAINAGE CALCULATIONS

Drainage Area	Area (ac.)	Grade (%)	L (ft.)	Tc (min) Act	Tc (min) Used	Rainfall Rate $I = \frac{189}{t+25}$	Composite "C"	Q (cfs)	Rainfall Amount	Volume of Runoff
UNDEVELOPED CONDITIONS: *										
Total Site	9.443	3.0	850	10	10	5.4	0.39	20	2.6"	34,760 cu. ft.
DEVELOPED CONDITIONS										
A	3.03	0.5	970	14	14	4.85	.78	11.5	2.6"	22,300 cu. ft.
B	0.57	3.0	185	6	10	5.40	.80	2.5	2.6"	4,300 cu. ft.
C	1.25	3.0	420	7	10	5.40	.73	4.9	2.6"	8,600 cu. ft.
Totals	4.85		-	-	-		0.77	18.9	2.6"	35,200 cu. ft.

* Praire Road: 750' x 42' = 43,560 = 0.72 ac.

Unaeveloped:

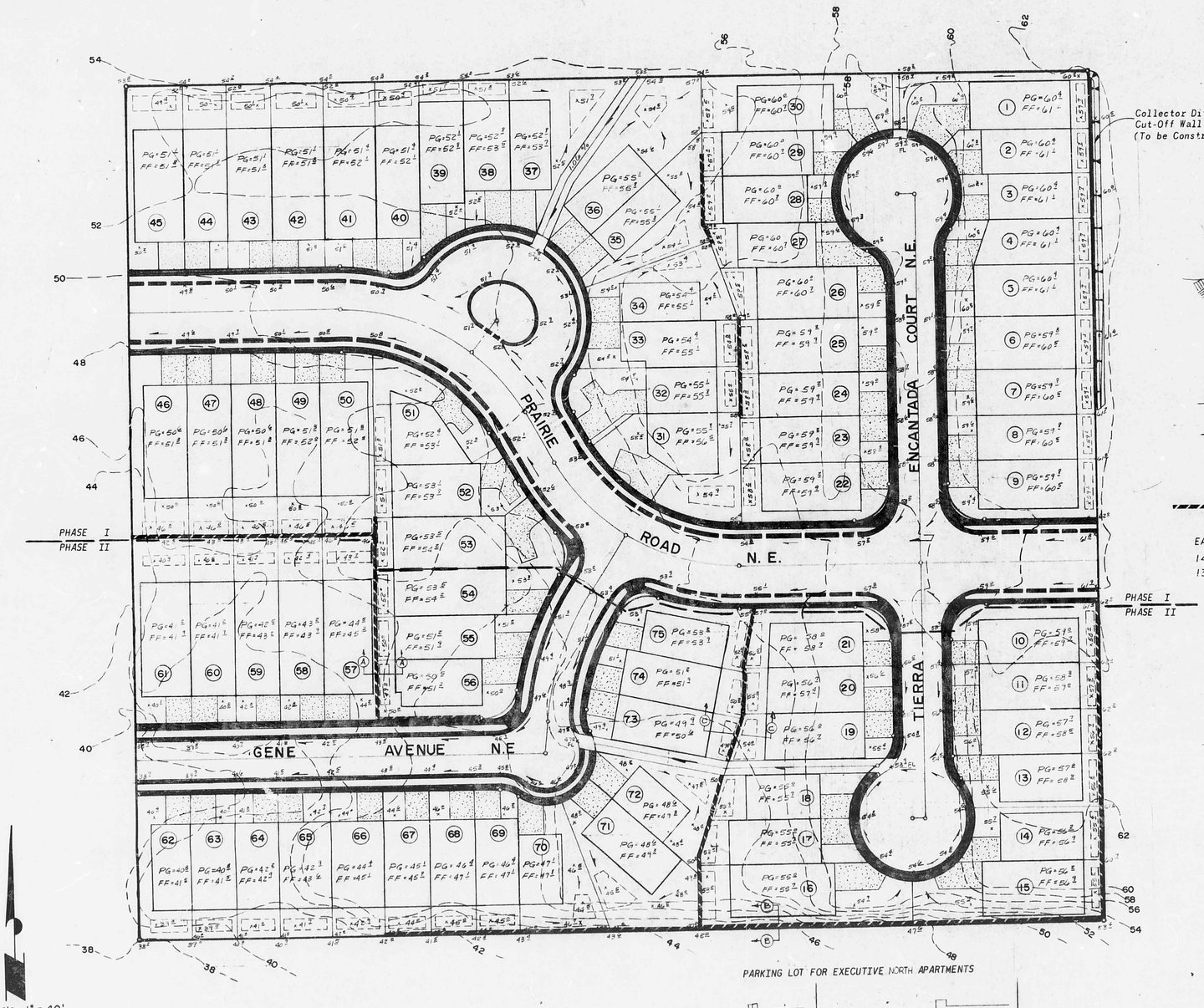
AREA	C	I	A	Q (cfs)
1	0.90	5.4	0.72	3.5
2	0.35	5.4	8.72	16.5
				20 cfs

NOTE: Area 1 is existing paved street (Praire Road).
Area 2 is balance of site.

CCIC
CONSULTING CONSTRUCTION INSPECTION

JOB NO. 478-4
DATE FEB. 1979
SHEET 9 OF 9

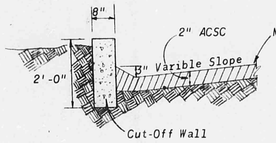
EXHIBIT I



Scale: 1" = 40'

GRADING PLAN
TIERRA ENCANTADA

Collector Ditch Against Cut-Off Wall at Property Line (To be Constructed by Others)



OFFSITE DEFLECTION WALL & COLLECTOR DITCH

RETAINING WALL

EARTHWORK FIGURES (Raw)
14,100 Cu.Yds. CUT
13,348 Cu.Yds. FILL

APPROVED: DATE
HYDROLOGY
CITY ENGINEER

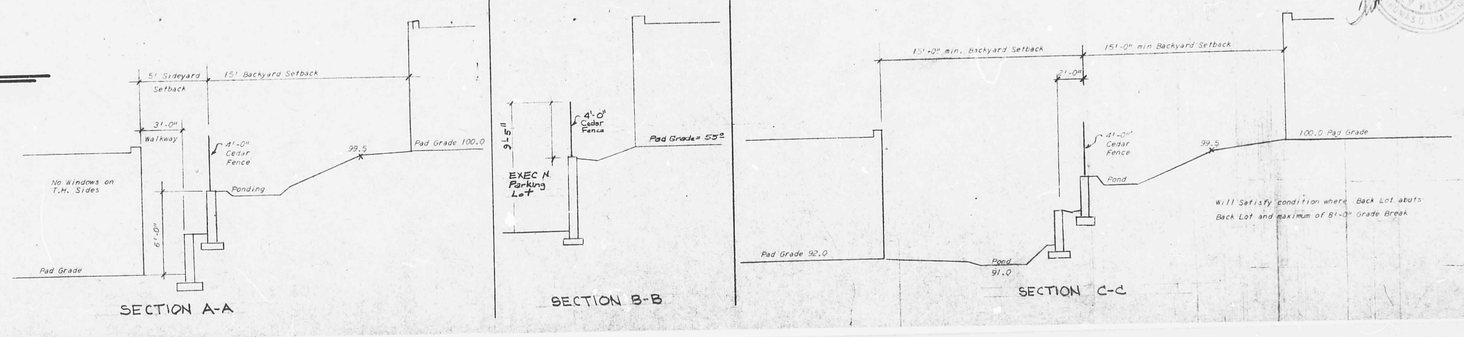
GRADING NOTES

1. All grading shall conform to all local regulations and where applicable a grading certificate shall be obtained and established procedures shall be complied with.
2. All fill slopes for street or home construction shall have compaction of not less than 95% maximum density as determined by proctor or other accepted testing methods.

BENCH MARKS

BM 1 - Top S.W. Bonnet Bolt Fire Hydrant, North Side Prairie Road at curb station 1+01. Elev.=5362.83

BM 2 - Top Rim MH 814 ℄ Prairie Road & West Boundary of subdivision Elev.=5348.74



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