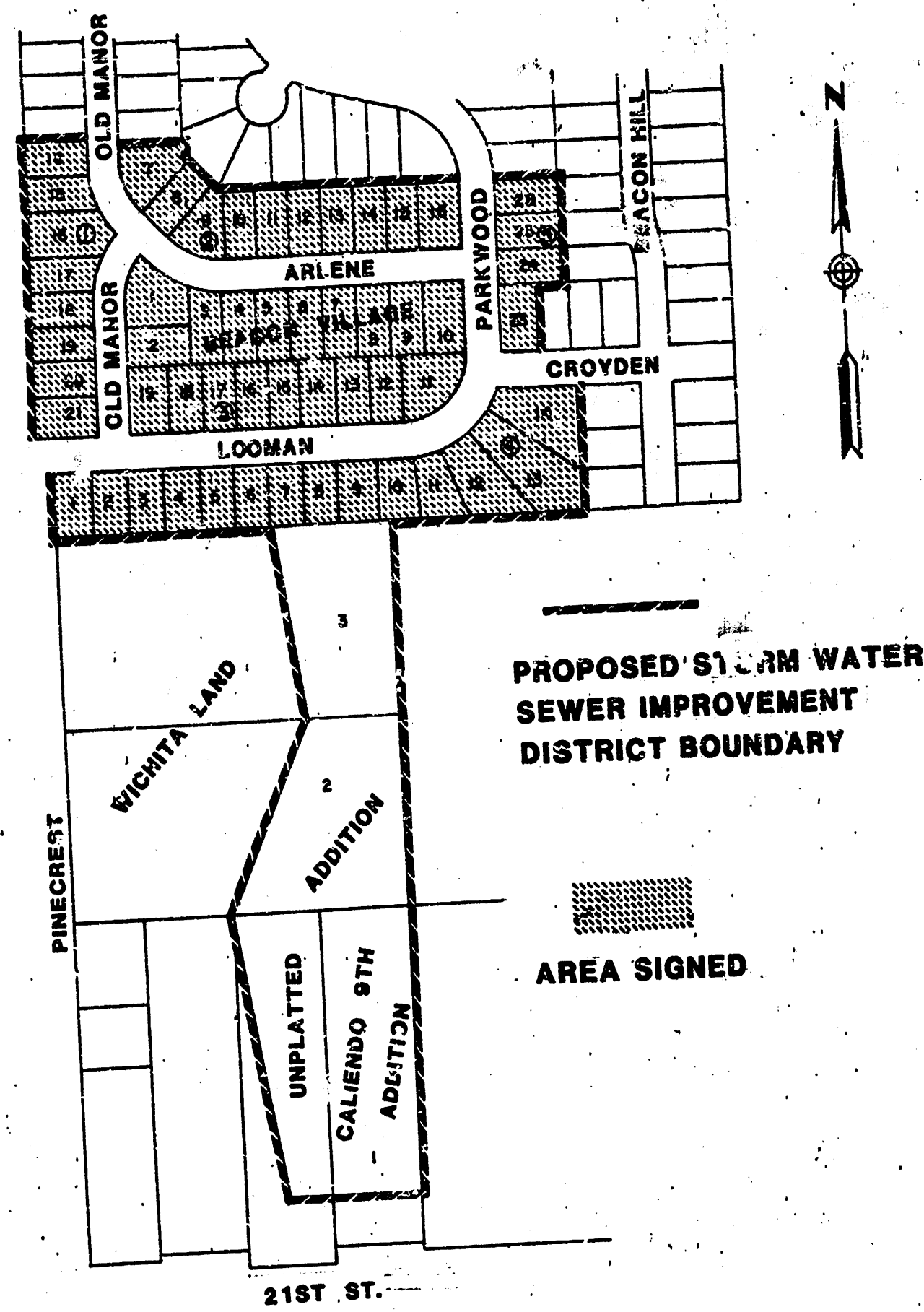




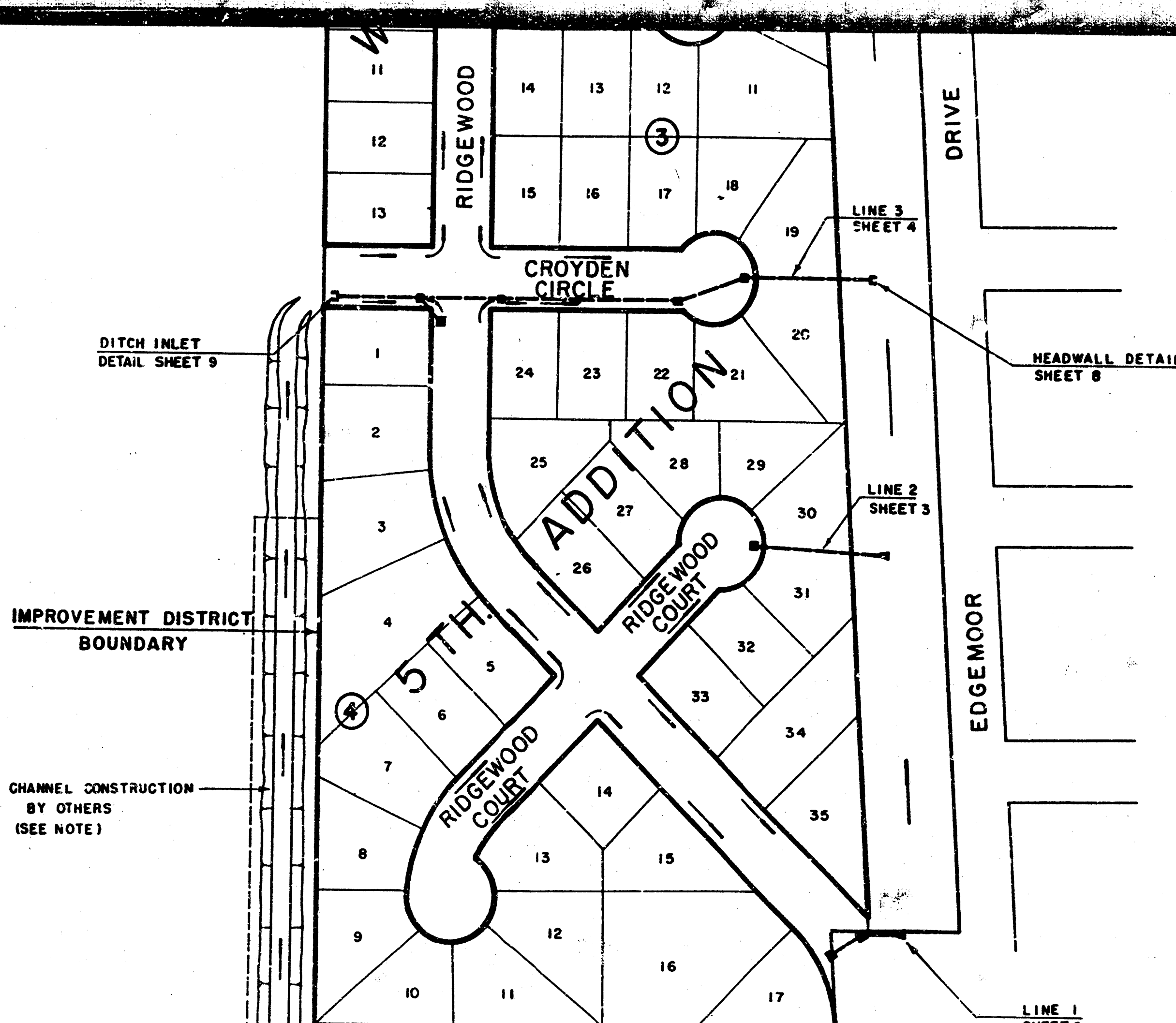
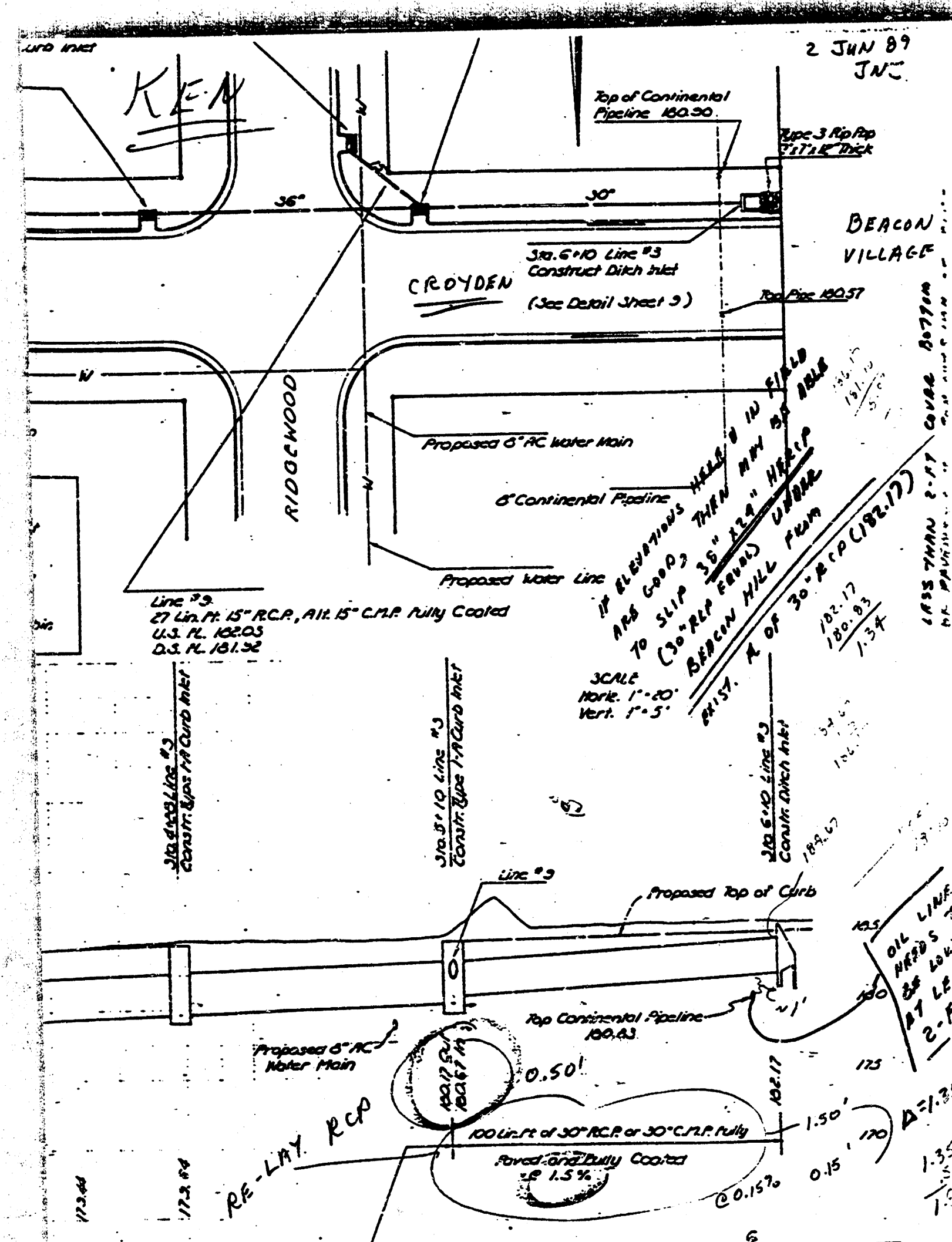
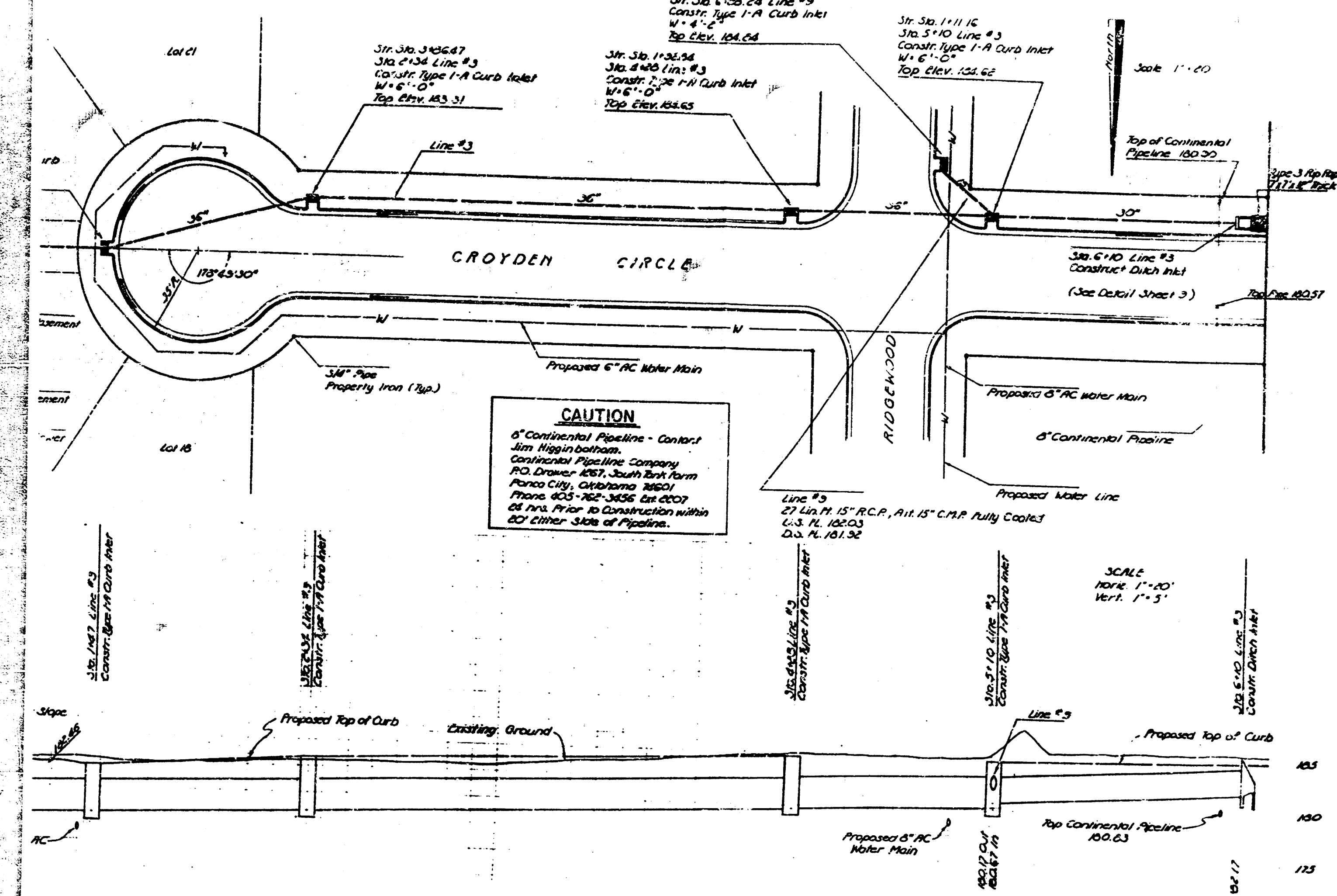
May 16, 1980

Stacy Hargis
Engineering Department
405 W. Main, 7th Floor
Wichita, KS 67202

Dear Mr. [Name]:
Please review and verify the proposed water sewer improvement district boundary shown on the attached map. The map shows the proposed boundary for the 61.4 AM water sewer improvement district. The map also shows the proposed boundary for the 61.4 AM water sewer improvement district. The map also shows the proposed boundary for the 61.4 AM water sewer improvement district.

1. Verify the proposed boundary for the 61.4 AM water sewer improvement district. The map shows the proposed boundary for the 61.4 AM water sewer improvement district. The map also shows the proposed boundary for the 61.4 AM water sewer improvement district. The map also shows the proposed boundary for the 61.4 AM water sewer improvement district.
2. Verify the proposed boundary for the 61.4 AM water sewer improvement district. The map shows the proposed boundary for the 61.4 AM water sewer improvement district. The map also shows the proposed boundary for the 61.4 AM water sewer improvement district. The map also shows the proposed boundary for the 61.4 AM water sewer improvement district.
3. Verify the proposed boundary for the 61.4 AM water sewer improvement district. The map shows the proposed boundary for the 61.4 AM water sewer improvement district. The map also shows the proposed boundary for the 61.4 AM water sewer improvement district. The map also shows the proposed boundary for the 61.4 AM water sewer improvement district.
4. Verify the proposed boundary for the 61.4 AM water sewer improvement district. The map shows the proposed boundary for the 61.4 AM water sewer improvement district. The map also shows the proposed boundary for the 61.4 AM water sewer improvement district. The map also shows the proposed boundary for the 61.4 AM water sewer improvement district.

If you have any questions or comments, please contact me at [Phone Number].
Sincerely,
Stacy Hargis
Engineering Department
405 W. Main, 7th Floor
Wichita, KS 67202



BEACON VILLAGE - REVISED DRAINAGE PLAN (PARKWOOD SYSTEM TO MAINS GATE)

PAGE #1

DRAINAGE AREA	AREA (ACRES)	ACCUM AREA	C _s	C ₁₀₀	T _c (MIN)	I _s (IN/HR)	I ₁₀₀ (IN/HR)	Q _s (CFS)	Q ₁₀₀ (CFS)	PIPE SIZE	PIPE SLOPE	INLETS
AREA 'I' ONE-SIZE DRAINAGE OF BEACON HILL ADDITION	15.47		0.77	0.86	20	15	4.00	7.37	41.5	85.4	30" RCP	1.20% (BEACON HILL ADDITION)
AREA 'II' RESIDENTIAL - SINGLE FAMILY 'B' SOILS - 1/8 AC 50% IMPERVIOUS	2.24		0.54	0.67	24	20	2.90	6.53	3.5	9.8	21" RCP	0.40% 11(12) 10'
AREA 'III' RESIDENTIAL - SINGLE FAMILY 'B' SOILS - 1/8 AC 50% IMPERVIOUS	0.88		0.54	0.67	33	25	2.52	5.90	1.2	3.5		11(12) 5'
SUB-TOTAL	16.59		0.73	0.82	24	20	2.90	6.53	35.1	88.8	30" RCP	0.80%
AREA 'IV' RESIDENTIAL - SINGLE FAMILY 'B' SOILS - 1/8 AC 50% IMPERVIOUS	1.90		0.54	0.67	29	22	2.72	6.26	2.4	8.0	21" RCP	0.25% 11(12) 10'
AREA 'V' RESIDENTIAL - SINGLE FAMILY 'B' SOILS - 1/8 AC 50% IMPERVIOUS	0.88		0.54	0.67	22	17	3.17	7.00	1.5	4.1		11(12) 5'
SUB-TOTAL	19.37		0.70	0.80	24	20	2.90	6.53	37.3	101.2	30" RCP	1.00%

BEACON VILLAGE - REVISED DRAINAGE PLAN (BEACON HILL - MAINS GATE THEN PARKWOOD)

PAGE #2

DRAINAGE AREA	AREA (ACRES)	ACCUM AREA	C _s	C ₁₀₀	T _c (MIN)	I _s (IN/HR)	I ₁₀₀ (IN/HR)	Q _s (CFS)	Q ₁₀₀ (CFS)	PIPE SIZE	PIPE SLOPE	INLETS
AREA 'VI' RESIDENTIAL - SINGLE FAMILY 'B' SOILS - 1/8 AC 50% IMPERVIOUS	2.16		0.54	0.67	40	31	2.24	5.32	2.4	7.7	21" RCP	0.25% 11(12) 5' (SUMP)
AREA 'VII' RESIDENTIAL - SINGLE FAMILY 'B' SOILS - 1/8 AC 50% IMPERVIOUS	1.43		0.54	0.67	38	27	2.44	5.69	2.1	6.2		11(12) 5' (SUMP)
SUB-TOTAL	3.59		0.54	0.67	40	31	2.24	5.32	4.4	13.9	24" RCP	0.40%
AREA 'VIII' RESIDENTIAL - SINGLE FAMILY 'B' SOILS - 1/8 AC 50% IMPERVIOUS	5.51		0.54	0.67	38	27	2.32	5.49	4.9	20.3		21(12) 10' (SUMP)
SUB-TOTAL	9.30		0.54	0.67	40	31	2.24	5.32	11.2	33.1	36" RCP	0.30%
AREA 'IX' RESIDENTIAL - SINGLE FAMILY 'B' SOILS - 1/8 AC 50% IMPERVIOUS	1.87		0.54	0.67	22	17	3.17	7.00	3.2	8.8		11(12) 10' (SUMP)
PARKWOOD - SUB-TOTAL	19.37		0.70	0.80	24	20	2.90	6.53	37.3	101.2		
SUB-TOTAL	30.54		0.64	0.75	26	20	2.90	6.53	56.7	149.6	54" RCP	0.40%
AREA 'X' RESIDENTIAL - SINGLE FAMILY 'B' SOILS - 1/8 AC 50% IMPERVIOUS	2.14		0.54	0.67	29	22	2.72	6.26	3.4	10.3	24" RCP	0.25% 11(12) 10'
TOTAL - BEACON HILL SYSTEM	33.00		0.63	0.74	29	22	2.72	6.26	56.5	152.9	54" RCP	0.40% 11(12) 5'

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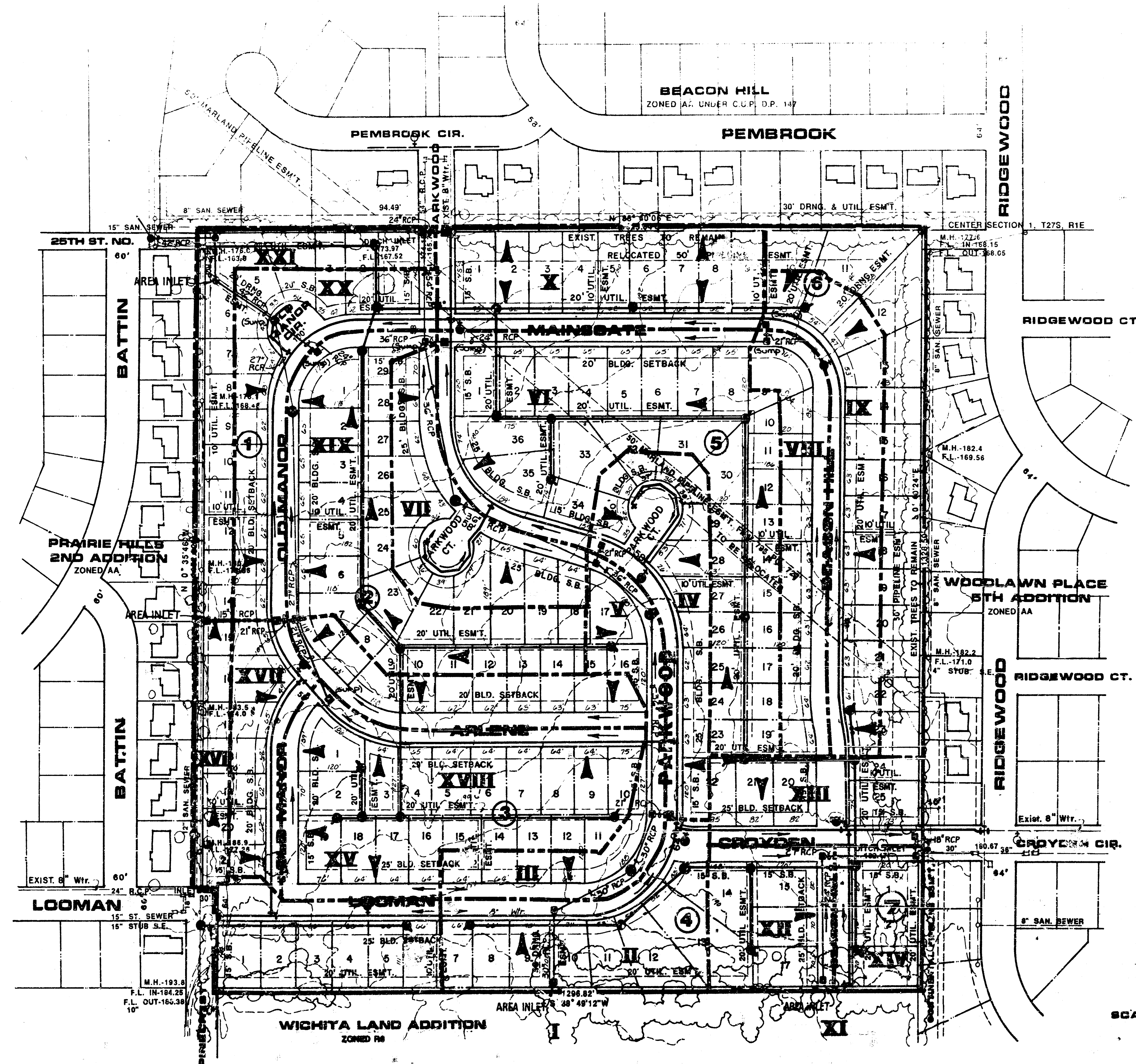
BEACON VILLAGE - REVISED DRAINAGE PLAN (CROYDEN SYSTEM TO EAST)

1	2	3	4	5	6	7	8	9	10	11	12
DRAINAGE AREA	AREA (ACRES)	ACCUM AREA	C ₁	C ₁₀₀	T _C (MIN)	J ₂ (IN/HR)	J ₁₀₀ (IN/HR)	Q ₂ (CFS)	Q ₁₀₀ (CFS)	PIPE SIZE	PIPE SLOPE
AREA 'XI' DIFFUSE DRAINAGE OF UNDEVELOPED LAND & APARTMENTS	13.09		0.57	0.73	28	2.78	6.53	21.5	62.4	24" RCP	1.00%
AREA 'XII' RESIDENTIAL - SINGLE FAMILY 'B' SOILS - 70 AC 50% IMPERVIOUS	1.35		0.54	0.67	22	3.17	7.00	2.3	6.3	-	1.00%
SUB-TOTAL	14.44		0.59	0.72	28	2.78	6.53	23.7	67.7	27" RCP	0.60%
AREA 'XIII' RESIDENTIAL - SINGLE FAMILY 'B' SOILS - 70 AC 50% IMPERVIOUS	1.45		0.54	0.67	22	2.78	6.26	2.2	6.1	18" RCP	0.40%
AREA 'XIV' RESIDENTIAL - SINGLE FAMILY 'B' SOILS - 70 AC 50% IMPERVIOUS	0.96		0.54	0.67	18	3.51	7.87	1.8	4.7	-	1.00%
TOTAL - EAST INTO CROYDEN SYSTEM	16.85		0.58	0.71	28	2.78	6.26	27.2	74.9	30" RCP	0.50%

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PAGE 4

BEACON VILLAGE - REVISED DRAINAGE PLAN (OLD MANOR SYSTEM TO NORTHWEST)

1	2	3	4	5	6	7	8	9	10	11	12
DRAINAGE AREA	AREA (ACRES)	ACCUM AREA	C ₁	C ₁₀₀	T _C (MIN)	J ₂ (IN/HR)	J ₁₀₀ (IN/HR)	Q ₂ (CFS)	Q ₁₀₀ (CFS)	PIPE SIZE	PIPE SLOPE
AREA 'XV' RESIDENTIAL - SINGLE FAMILY 'B' SOILS - 70 AC 50% IMPERVIOUS	4.00		0.54	0.67	31	2.62	6.01	5.7	16.1	21" RCP	1.00%
AREA 'XVI' RESIDENTIAL - SINGLE FAMILY 'B' SOILS - 70 AC 50% IMPERVIOUS	0.77		0.54	0.67	20	3.33	7.37	1.4	3.8	15" RCP	0.40%
AREA 'XVII' RESIDENTIAL - SINGLE FAMILY 'B' SOILS - 70 AC 50% IMPERVIOUS	1.20		0.54	0.67	22	3.17	7.00	2.1	5.4	-	1.00%
SUB-TOTAL	1.97		0.54	0.67	22	3.17	7.00	3.4	9.2	21" RCP	0.40%
AREA 'XVIII' RESIDENTIAL - SINGLE FAMILY 'B' SOILS - 70 AC 50% IMPERVIOUS	1.49		0.54	0.67	29	2.72	6.13	2.2	6.1	-	1.00%
SUB-TOTAL	7.46		0.54	0.67	31	2.62	6.01	10.6	30.0	27" RCP	1.00%
AREA 'XIX' RESIDENTIAL - SINGLE FAMILY 'B' SOILS - 70 AC 50% IMPERVIOUS	3.48		0.54	0.67	30	2.67	6.13	5.0	14.3	24" RCP	0.50%
AREA 'XX' RESIDENTIAL - SINGLE FAMILY 'B' SOILS - 70 AC 50% IMPERVIOUS	2.26		0.54	0.67	25	2.96	6.68	3.6	10.1	-	1.00%
SUB-TOTAL	13.20		0.54	0.67	31	2.62	6.01	18.7	53.2	42" RCP	0.30%
AREA 'XXI' RESIDENTIAL - SINGLE FAMILY 'B' SOILS - 70 AC 50% IMPERVIOUS	1.93		0.54	0.67	28	2.78	6.39	2.7	7.8	-	1.00%
TOTAL - NORTHWEST TO BATTIN	15.03		0.54	0.67	31	2.62	6.01	21.3	60.5	48" RCP	0.20%

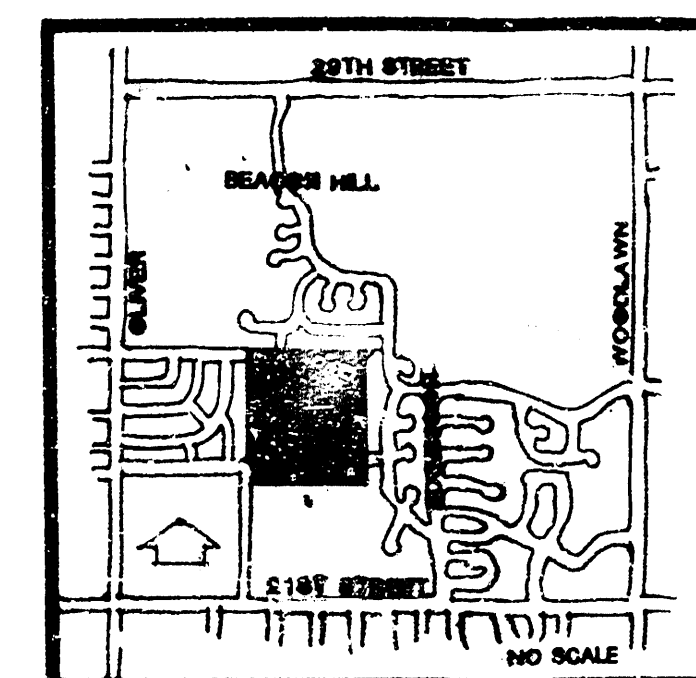


NOTES:

BENCH MARK: SQUARE CUT IN TOP OF CURB AT N.W. CORNER OF LOT 9, BLOCK 2, BEACON HILL ADDITION. ELEV. -177.34

RELOCATION OF MARLAND PIPELINE IS TO BE DONE BY OWNER AT NO EXPENSE TO THE CITY OF WICHITA.

TOPOGRAPHIC SURVEY FLOWN BY MILES AIR PHOTO IN FALL OF 1987.



BEACON VILLAGE
DRAINAGE & UTILITY PLAN

Design: JNJ
Checked: RSM/KKL
Date: 4.25.89
No. 00

DRAINAGE & UTILITY PLAN