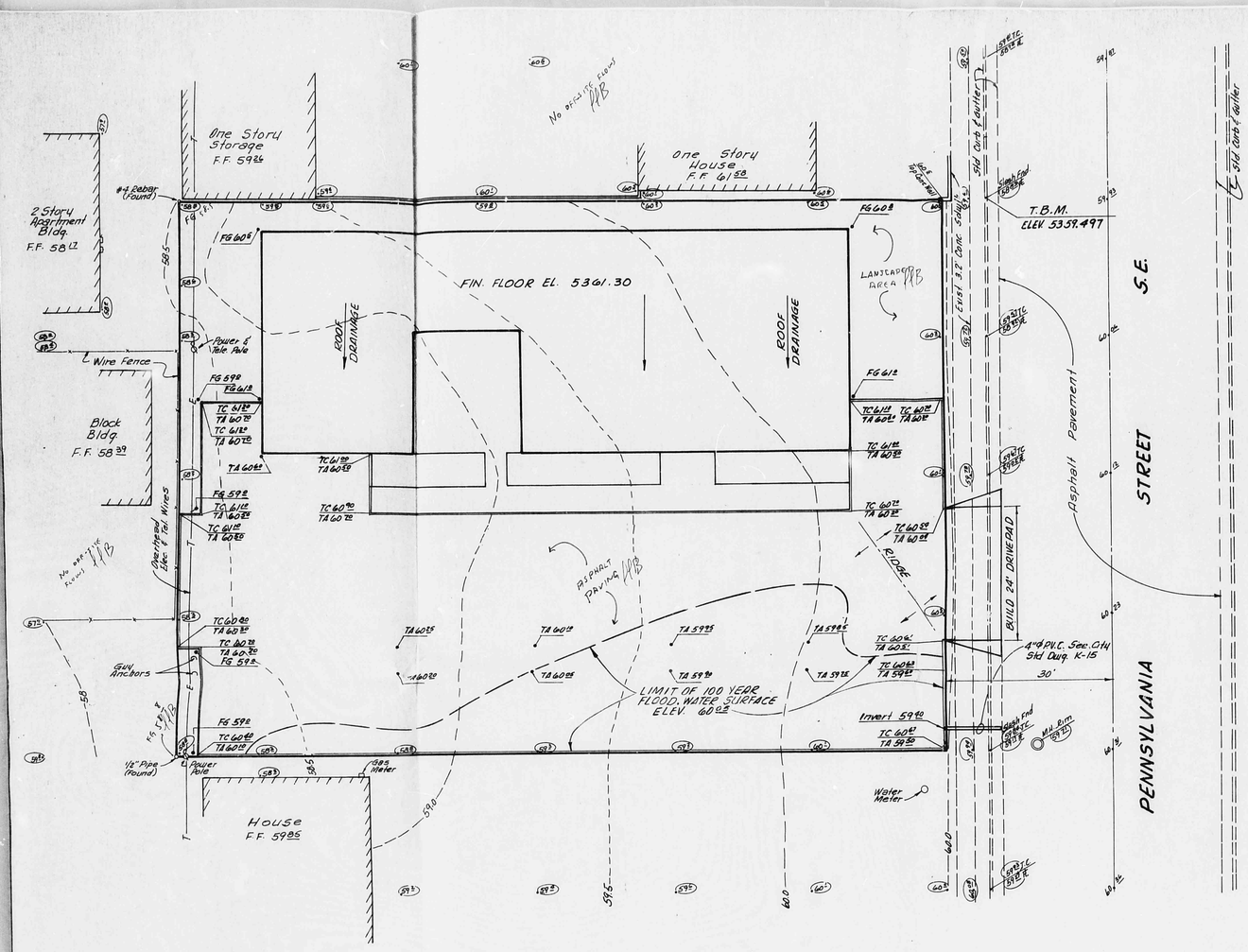
HYDROLOGY K19/D35 1 PLAN

K19/D35

1 Plan

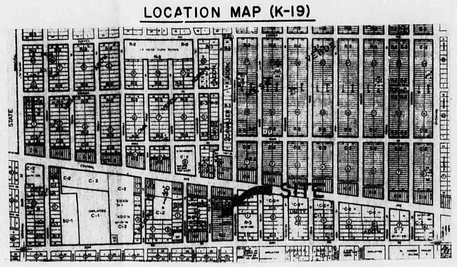
D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D



GRADING DRAINAGE & TOPOGRAPHY

Scale 1"=10'

LOCATION MAP (K-19)



NOTES

1. EXISTING TOPOGRAPHY BASED ON SURVEY BY DMJM/AHA DATED 5/24/83
2. BASIS OF ELEVATION ACS 6-K19
3. NO BOUNDARY SURVEY WAS MADE AND ALL INFORMATION SHOWN HEREON IS BASED ON FOUND DATA.
4. ALL GRADING SHALL BE LIMITED TO THE PROPERTY BOUNDARIES AND GRADES SHALL MATCH EXISTING GRADES AT THE PROPERTY BOUNDARY.

LEGEND

(508) = Existing Spot Elev.
FG 58.8 = Finished Grade Elev
TC 58.8 = Top of Curb Elev.
TA 58.2 = Top of Asphalt Elev.

DRAINAGE COMPUTATIONS

TIME	ACCUM. RAINFALL	RUNOFF VOLUME	INSTANT WATER SURF.	AVERAGE WATER SURF.	ORIFICE HEAD	INCREM. OUTFLOW	ACCUM. OUTFLOW	STORAGE VOLUME
Min.	INCH	ft.^{3}	ft.	ft.	ft.	ft.^{3}	ft.^{3}	ft.^{3}
0	--	--	59.40					
				59.49	0.3	26		
5	.125	115	59.61				26	89
				59.66	.09	38		
10	.282	259	59.71				64	195
				59.79	.22	59		
15	.625	575	59.87				123	452
				59.94	.37	77		
20	1.045	961	60.01				200	761
				60.03	.46	85		
25	1.203	1107	60.04				285	822
				60.05	.48	87		
30	1.316	1211	60.05				372	839
				60.05	.48	174		
40	1.514	1393	60.05				546	847
				60.04	.47	173		
50	1.690	1558	60.04				719	836
				60.04	.47	173		
60	1.866	1717	60.04				892	825

DRAINAGE NOTES

1. Max. volume in storage 847 ft.^{3}
   Volume provided 980 ft.^{3} @ W.S. Elev. 60.10
2. Overflow through drivepad
   Drivepad capacity = $2.6(28)\ (0.32)^{3/2}$ = 13.18 cfs
3. 100 year peak flow after development = $0.6\ (A_{4\%} + B)\ (2g(0.48))^{1/2}$
   = 0.29 cfs @ time = 30 min.
   100 year peak flow before development = (0.4)(5.07) (140000/43560)
   = 6.52 cfs @ time = 10 min.

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