HYDROLOGY

G19/D8
1 PLAN

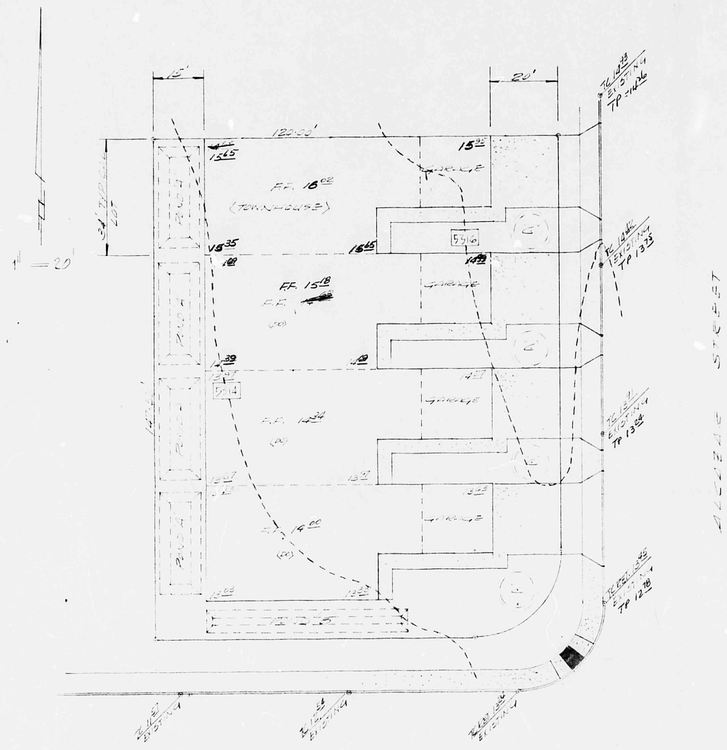
G19/D8

1 PLAN

ENCHANTMENT ENGINEERING Inc.
1529-F EUBANK BLVD. N.E.
ALBUQUERQUE, N.M. Ph. 294-8859

DRAINAGE CALCULATIONS

PROPOSED TOWNHOUSE SITE
for CHUCK HUNTER.



CONCEPTUAL PLAN N.T.S.

UNDEVELOPED

AREA UNDER CONSIDERATION	0.4303 ACRES
EXISTING SLOPE	3.5%
NATURAL RUNOFF COEFFICIENT	0.4
TIME OF CONCENTRATION	10 MINUTES
INTENSITY 100 = 0.25 =	5.4 IN./HR
100 YEAR 6 HR PRECIPITATION	2.5 IN.
RATE OF NATURAL RUNOFF	0.5776 CFS
VOLUME OF NATURAL RUNOFF	0.0577 AC.FT. (1477 cu.ft.)

DEVELOPED

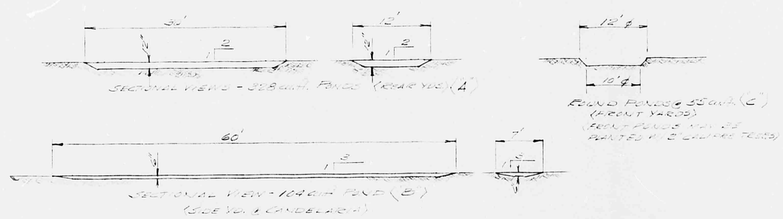
	AREA (AC)	C	A x C	RATE (CFS)	VOLUME (ACFT)
FLAT ROOF	0.2232	.87	.1942	1.0546	.0401
PAVEMENT	0.0544	.93	.0506	.2746	.0104
OPEN	0.1527	.2	.0515	.2778	.0101
					.0618 (2692 cu.ft.)

REQUIRED SITE RETENTION

.0618 DEV. − .0577 NAT. = .0041 ACFT. (178 cu.ft.)

TOTAL POND CAPACITY

328 cu.ft. x 4 PONDS =	1312 cu.ft.
104 cu.ft. x 1 POND =	104 cu.ft.
56 cu.ft. x 4 POND =	224 cu.ft.
POND TOTAL =	1640 cu.ft.



BM. CITY BM. SHIS
ZONE ATLAS G-9

CONDITIONS FOR DRAINAGE:

JM Butler