HYDROLOGY

M13/D1
ONE PLAN

M13/D1

1 PLAN

DRAINAGE PLAN
ACOMA ADDITION, LOT 3
EVEREADY PLUMBING
ZONE ATLAS M-13

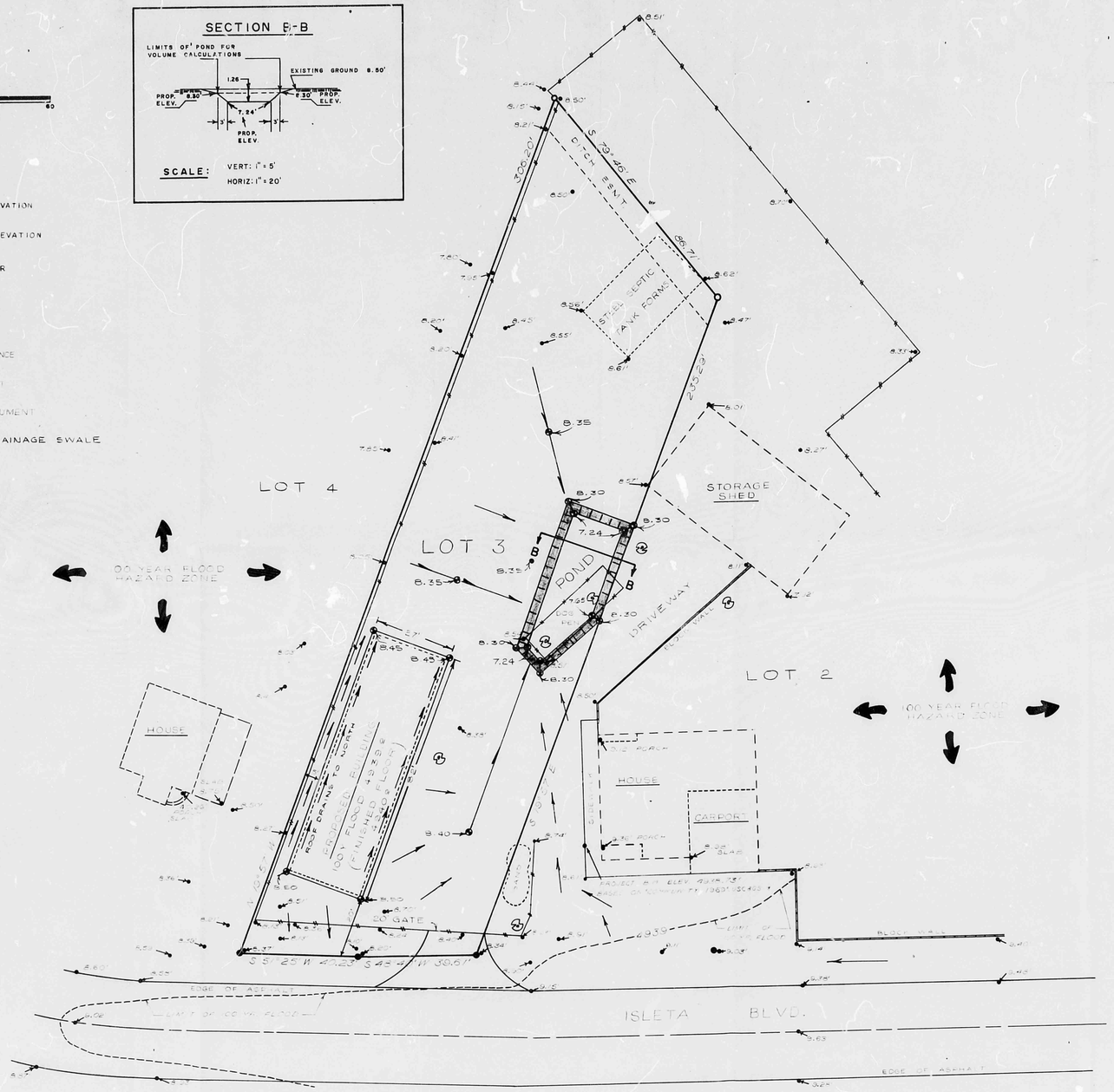
SCALE: 1" = 20'

20 10 0 10
15 5 20 60

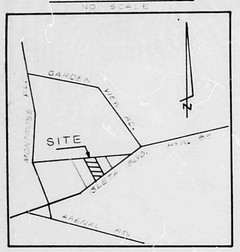
- DRAINAGE FLOW
- CHAINLINK FENCE
- EXISTING SPOT ELEVATION (8.36')
- PROPOSED SPOT ELEVATION (8.38')
- EXISTING CONTOUR (4839)
- PROPOSED CONTOUR (4840)
- EXISTING TREE
- EXISTING WOOD FENCE
- FOUND MOUNUMENT
- NOT FOUND MOUNUMENT
- PROPOSED DRAINAGE SWALE

SECTION B-B

SCALE: VERT: 1" = 5'
HORIZ: 1" = 20'



VICINITY MAP
NO SCALE



LEGAL DESCRIPTION

Lot 3 as shown on the plat of Acoma Addition as filed in the Office of the County, Bernalillo County, New Mexico on June 25, 1937.

GENERAL NOTES

The site is currently used as a plumbing service yard, with precasting forms for septic tanks, and storage for completed tanks, various plumbing supplies and vehicles. The proposed building is an office for the plumbing business.

DRAINAGE NOTES

All of lot 3 is subject to inundation by the 100 year flood (elevation 4,939.00 per flood hazard map). The grading and ponding proposed is greater (in volume) than the volume of water that would be displaced by the proposed building. Therefore, there will be no adverse effect on flooding due to the proposed construction.

The lot currently accepts offsite flows from Lot 2 on the East, and from Isleta Blvd., which are absorbed within the lot with no apparent overflow to surrounding areas. The surface of the lot is sandy and no surface treatment is proposed at this time.

CALCULATIONS

Q = CIA (per City of Albuquerque D.P.M.)
16 hr = 2.25" (plate 22.2 D-1)
Tc = 10 minutes
Dimensionless Rainfall Intensity 2.15 (Plate 22.2 D-2)

Offsite flows to Lot 3
Q100y = .97 x 2.25 x 2.15 x .2056 = .9650 cfs

Onsite
Q100y undeveloped = 2.25 x 2.15 x .40 x .4669 = .9035 cfs
Q100y developed = 2.25 x 2.15 x ((.40 x .2798) + (.75 x .1337) + (.95 x .0533)) = 1.2714 cfs

Volumes
Building volume displaced at 100y flood elevation = 86' x 27' x .5' = 1161 cu ft

Pond Total earth removed 1182 cu ft
Total retention 947 cu ft

* **BENCHMARK " COMMUNITY"**
STANDING USC&GS BRASS TABLET
STAMPED " COMMUNITY 1969 "
ELEVATION 4937
ALBUQUERQUE "SURVEY MONUMENTS" SEC. B, PAGE 9

1-3-85
revision #2 2-6-85
1-30-85 revised
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