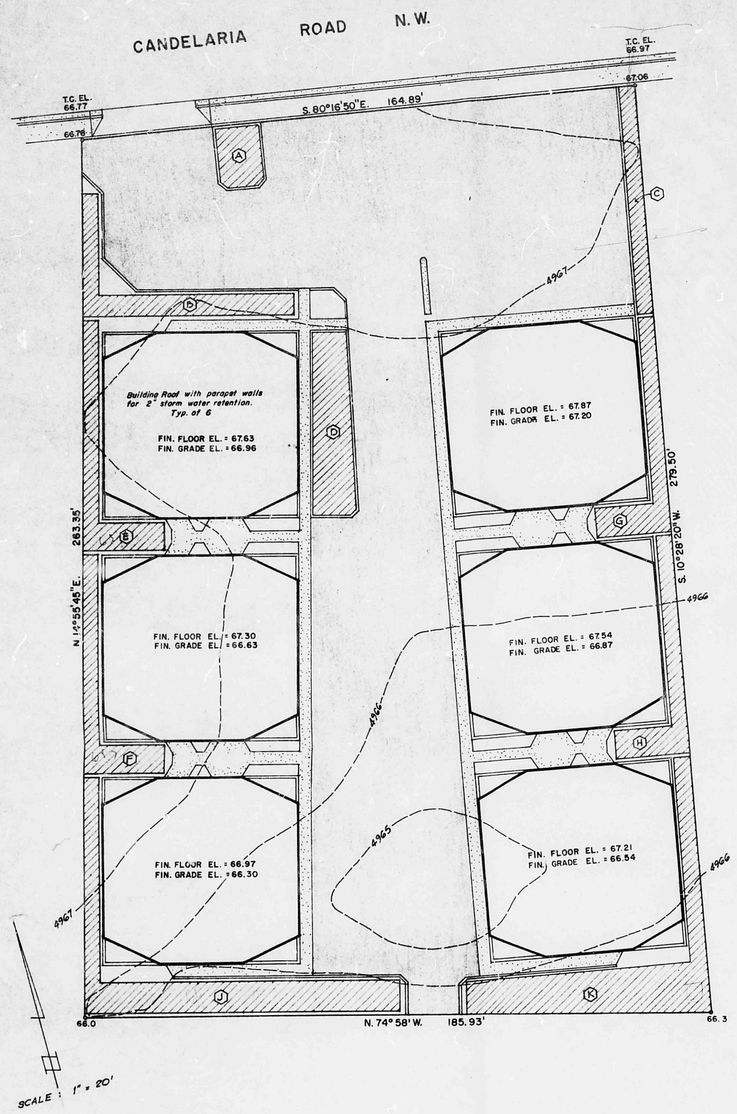
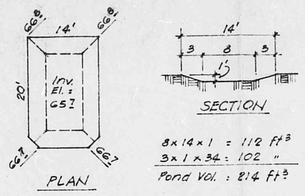
HYDROLOGY

G14/D1
1 PLAN

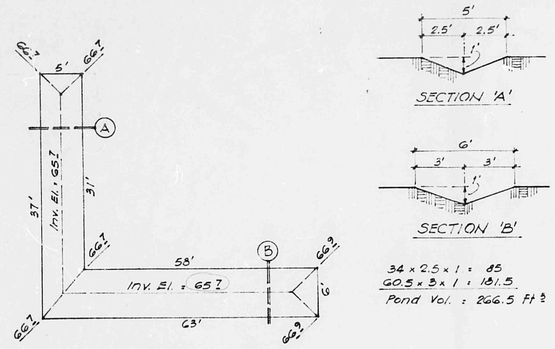
G 14/D1

1 Plan





POND AREA (A)
NO SCALE



POND AREA (B)
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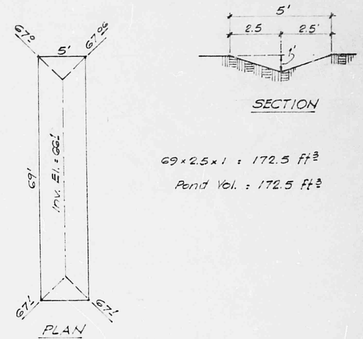

POND AREA (C)
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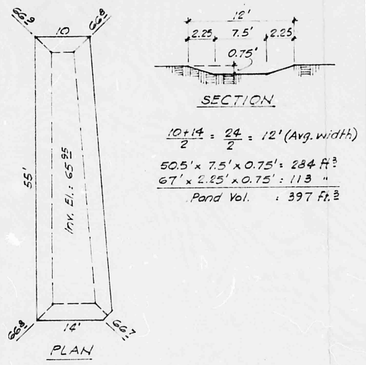
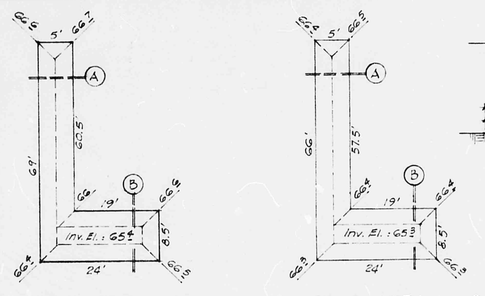


POND AREA (D)
NO SCALE



POND AREA (E)
NO SCALE

60.5' x 2.5' x 1' = 151.25 ft³
18' x 2.5' x 1' = 45.0 "
32.5' x 3' x 1' = 97.5 "
Pond Vol. = 293.75 ft³

POND AREA (F)
NO SCALE

57.5' x 2.5' x 1' = 143.75 ft³
18' x 2.5' x 1' = 45.0 "
32.5' x 3' x 1' = 97.5 "
Pond Vol. = 286.25 ft³

POND AREA (G)
NO SCALE

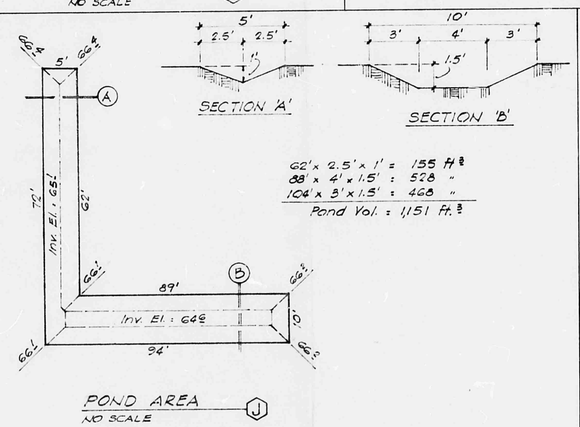
See calcs, Pond 'E'

Pond Vol. = 293.75 ft³

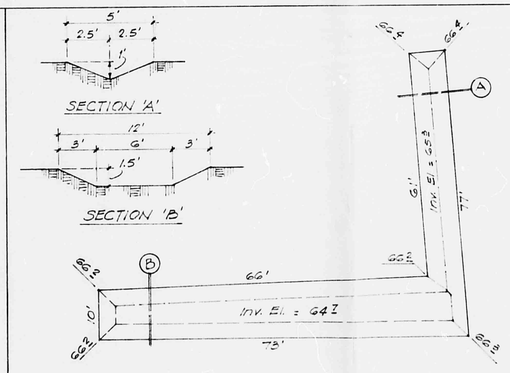
POND AREA (H)
NO SCALE

See calcs, Pond 'F'

Pond Vol. = 286.25 ft³



POND AREA (J)
NO SCALE



POND AREA (K)
NO SCALE

RETENTION PONDING CALCULATIONS

TOTAL AREA OF SITE : 47,524 ft²

IMPERVIOUS AREAS:

Buildings - 6 @ 3,055 ft²	18,330 ft²
Asphalt Paving	16,990 "
Conc. Sidewalks	3,056 "
Total Impervious Area	= 38,376 ft² (C = 0.95)

PERVIOUS AREAS

Unpaved Patios	1,440 ft²
Landscaping & Ponding	7,708 "
Total Pervious Area	= 9,148 ft² (C = 0.40)

$\frac{(9,148 \times 0.40) + (38,376 \times 0.95)}{47,524} = \frac{3,659.2 + 36,457.2}{47,524} = \frac{40,116.4}{47,524} = \underline{0.844}$

$47,524 \times \frac{2}{12} \times 0.844 = 47,524 \times 0.167 \times 0.844 = \underline{6,698 \text{ ft}^3}$ Pond Volume Required

RETENTION PONDING VOLUMES

Building Roofs (2" water)
18,330 sq. ft. x 0.1667 = 3,055.0 ft³

Pond Area	'A'	214.0
	B	266.5
	C	172.5
	D	397.0
	E	293.75
	F	286.25
	G	293.75
	H	286.25
	J	1151.0
	K	1129.0
Total Volume =		7,545 ft³

ENGINEER'S CERTIFICATION

This is to certify that this drawing was prepared under my direction and supervision and is true & correct.

3-27-80
John G. Leverton
PE & LS No. 1874
New Mexico

STATE OF NEW MEXICO
JOHN G. LEVERTON
No. 1874
REGISTERED
PROFESSIONAL ENGINEER AND LAND SURVEYOR

PONDING PLAN

PUEBLO QUATRO ADDITION

ALBUQUERQUE, NEW MEXICO

Zone Atlas Map No. G-14