HYDROLOGY

C18/D1
ONE PLAN

C18-D3

1 PLAN

DRAINAGE PLAN

LOTS 11 & 22
BLOCK - 18
TRACT - A UNIT - B
NORTH ALBUQUERQUE ACRES
ALBUQUERQUE, NEW MEXICO

PROPOSED FARMER'S MARKET WAREHOUSE

JANUARY 23, 1979

DRAINAGE CALCULATIONS

EXISTING CONDITIONS

AREA	77820 FT²
SLOPE	3.5% MAX
NATURAL RUNOFF COEFF.	.40
TIME OF CONCENTRATION	10 MINUTES
INTENSITY $\frac{189}{TC + 25}$	5.4 IN/HR
100-YEAR, 6-HOUR PRECIP.	2.3 IN.
RATE OF NATURAL RUNOFF	3.88 CFS
VOLUME OF NATURAL RUNOFF	6488 FT³

DEVELOPED CONDITIONS

	AREA	C=	RATE	VOLUME
ROOF	10225	.87	1.818	2216
PAVEMENT	24867	.92	2.779	4670
OPEN	40728	.40	2.014	3386
			6.111 CFS	10272 FT³

REQUIRED RETENTION

10272 - 6488 = 3787 FT³

POND DATA

SURFACE AREA	3500 FT²
BOTTOM AREA	3084 FT²
DEPTH	1.0 FT

VOLUME = $\frac{1.0}{3} \cdot \left[\sqrt{(3500)(3084)} + 3500 + 3084\right] = 3298$ FT³

EXCEEDS REQUIREMENTS BY 40. FT³

EDGE ELEVATION 5,199.5
BOTTOM ELEVATION 5,198.5

10 SIDE SLOPE
1 ↑ & ALL SIDES

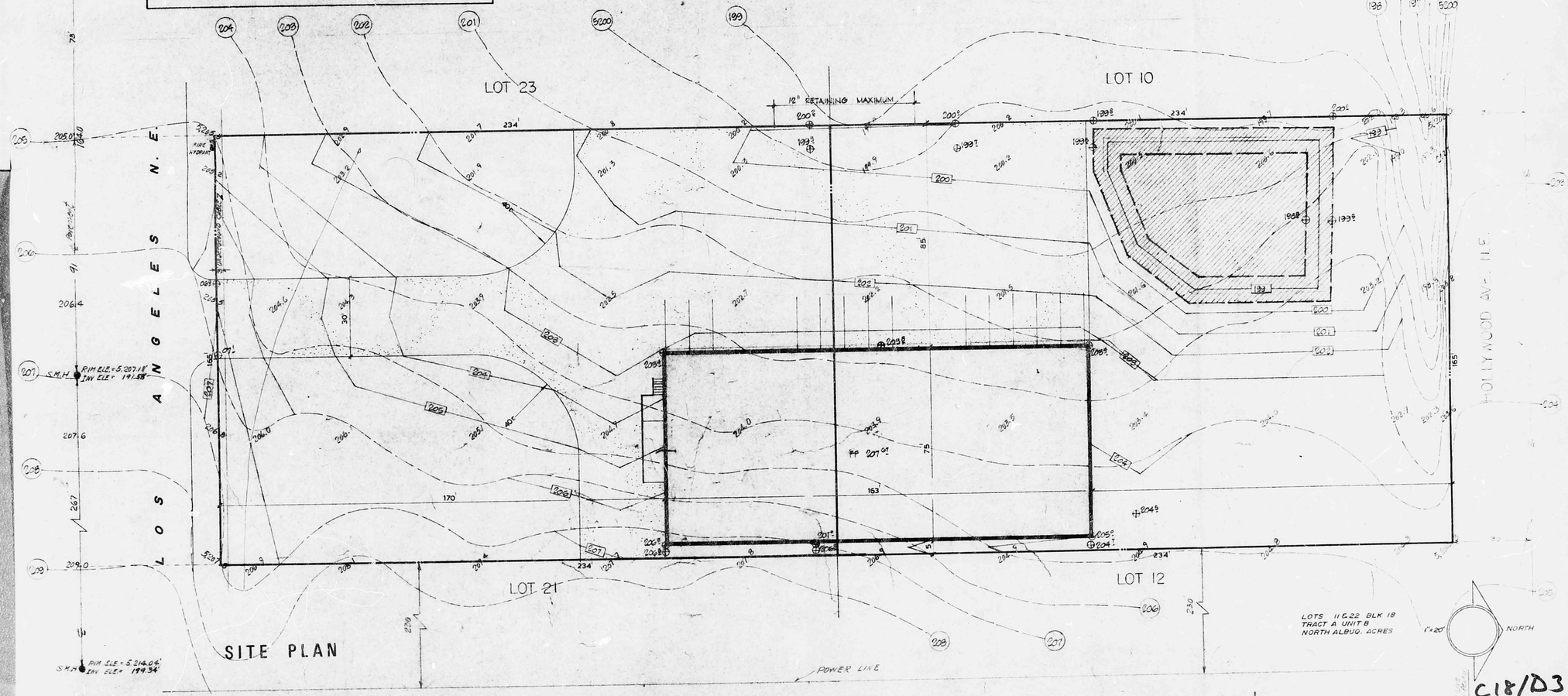
POND SECTION

EXISTING SPOT ELEVS
PROPOSED SPOT ELEVS
EXISTING CONTOURS
PROPOSED CONTOURS

B.M. 1-25-13 ELEV.=5,205.87'

STD. NAVIGO BRASS TABLET SET IN CONC. POST 0.2' E. OF 1:63 OVERPASS ON N. SIDE OF LOS ANGELES DRIVE.

STORM S.M.H. RIM ELE.= 5,203.56' INV ELE.= –



SITE PLAN

C18/D3