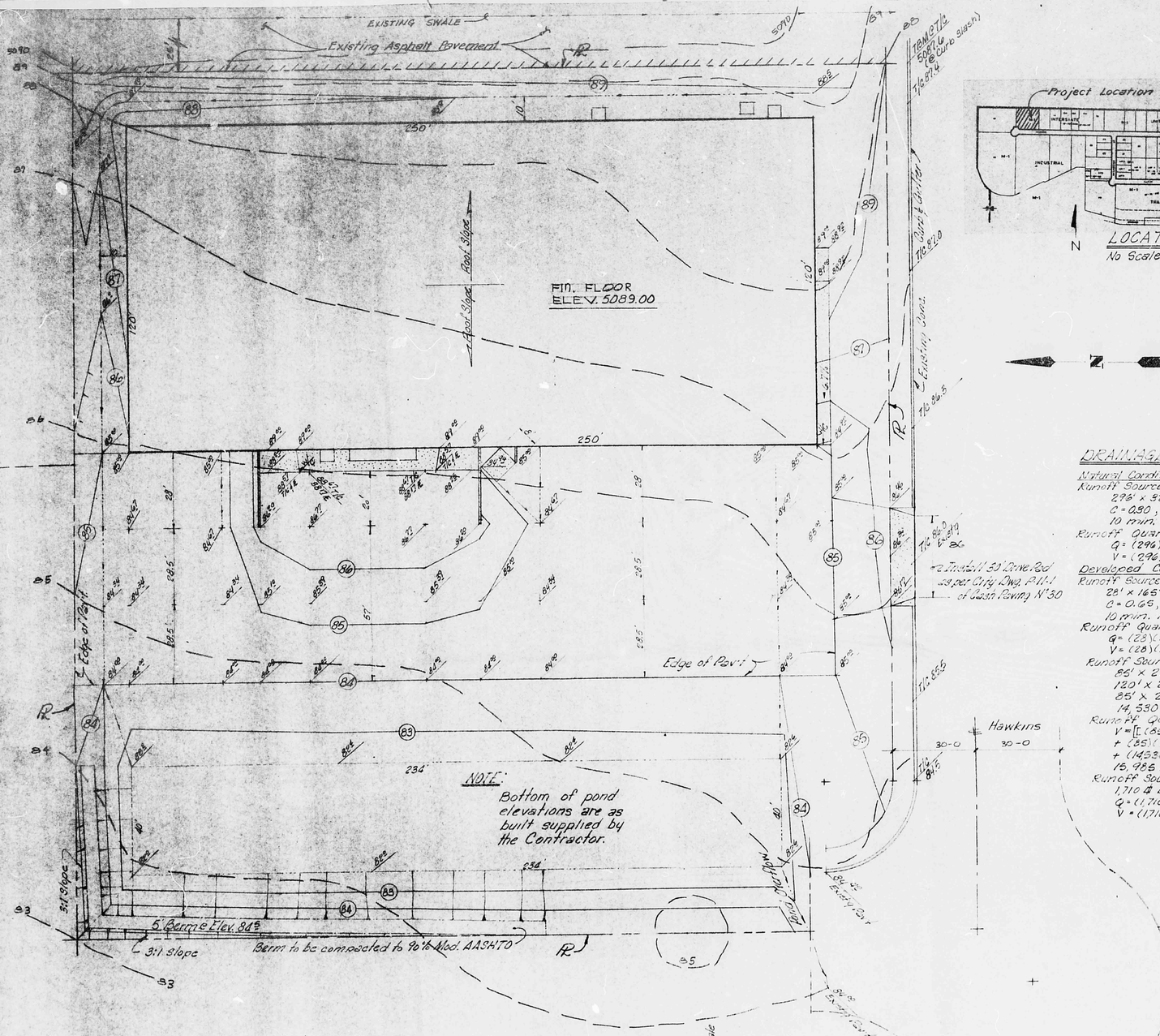
HYDROLOGY

D17/D7
TWO PLANS

D17/D7

2 Plans



GRADING PLAN

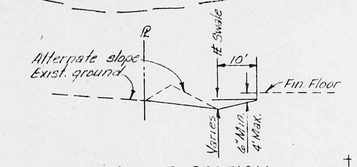
LOT 16, INTERSTATE INDUSTRIAL TRACT, UNIT 4 1" = 20-0

DRAINAGE REPORT - ACADEMY PARK - UNIT 4
BY GORDON HERKENHOFF & ASSOC. NOV. 1975

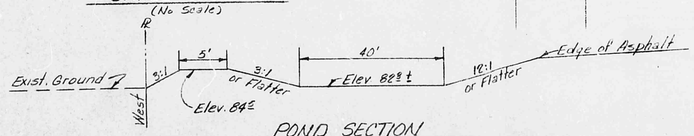
LEGEND

- 82± — Finished Grade Spot Elevations
- 86 — Finished Contour
- 84 — Existing Contour
- Flowline of Swale

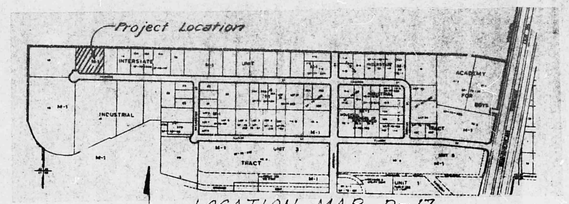
Note: All grading shall match the existing ground at the property line.



SWALE SECTION
(No Scale)



POND SECTION
(No Scale)



LOCATION MAP D-17
No Scale

DRAINAGE CALCULATIONS

Natural Conditions
Runoff Source (to adjacent lot)
296' x 320' sandy soil, sparce grass
C = 0.30, 6 hr. rainfall = 2.4 in.
10 min. intensity = 5.52 in/hr.
Runoff Quantities (to adjacent lot)
Q = (296)(320)(0.30)(5.52)/43,560 = 9.6 cfs
V = (296)(320)(0.30)(2.4)/12 = 5683 ft³

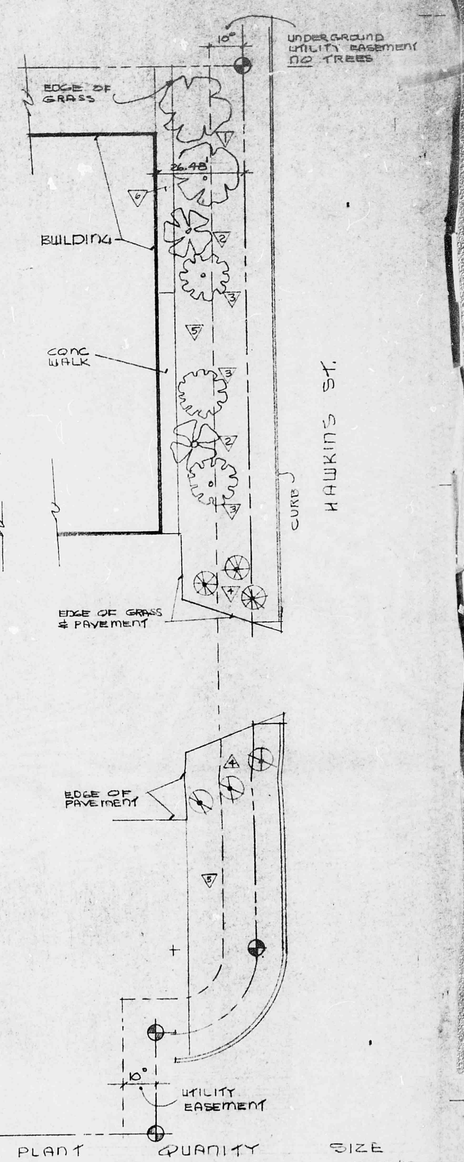
Developed Conditions
Runoff Source (to street)
28' x 165' landscaped
C = 0.65, 6 hr. rainfall = 2.4 in.
10 min. intensity = 5.52 in/hr.
Runoff Quantities (to street)
Q = (28)(165)(0.65)(5.52)/43,560 = 0.38 cfs
V = (28)(165)(0.65)(2.4)/12 = 601 ft³
Runoff Source (to pond)
85' x 27' Asphalt C = 0.95
120' x 250' Roof C = 0.95
85' x 245' Pond C = 1.00
14,530 ☐' Earth (compacted) C = 0.60
Runoff Quantity (to Pond)
V = [(85)(27) + (120)(250)](0.95)
+ (85)(245)(1.00)
+ (14530)(0.60)](5.52)/43,560 =
15,985 ft³
Runoff Source (to adjacent lot)
1,710 ☐' Earth (compacted) C = 0.60
Q = (1,710)(0.60)(5.52)/43,560 = 0.13 cfs
V = (1710)(0.60)(2.4)/12 = 205 ft³

AS-BUILT POND VOLUME

Elev.	Surface Area	Volume
82±	0	
		2306
82±	9,225	
		5858
83±	14,210	
		7954
83±	17,605	
Total Pond Volume		18,424 ft³
Total 6 hr. Runoff		15,985 ft³

NOTE: No offsite flows enter the site.

APPROVED FOR DRAINAGE
10-9-81
DATE
SIGNATURE OF PROFESSIONAL ENGINEER OR ARCHITECT
corrected copy



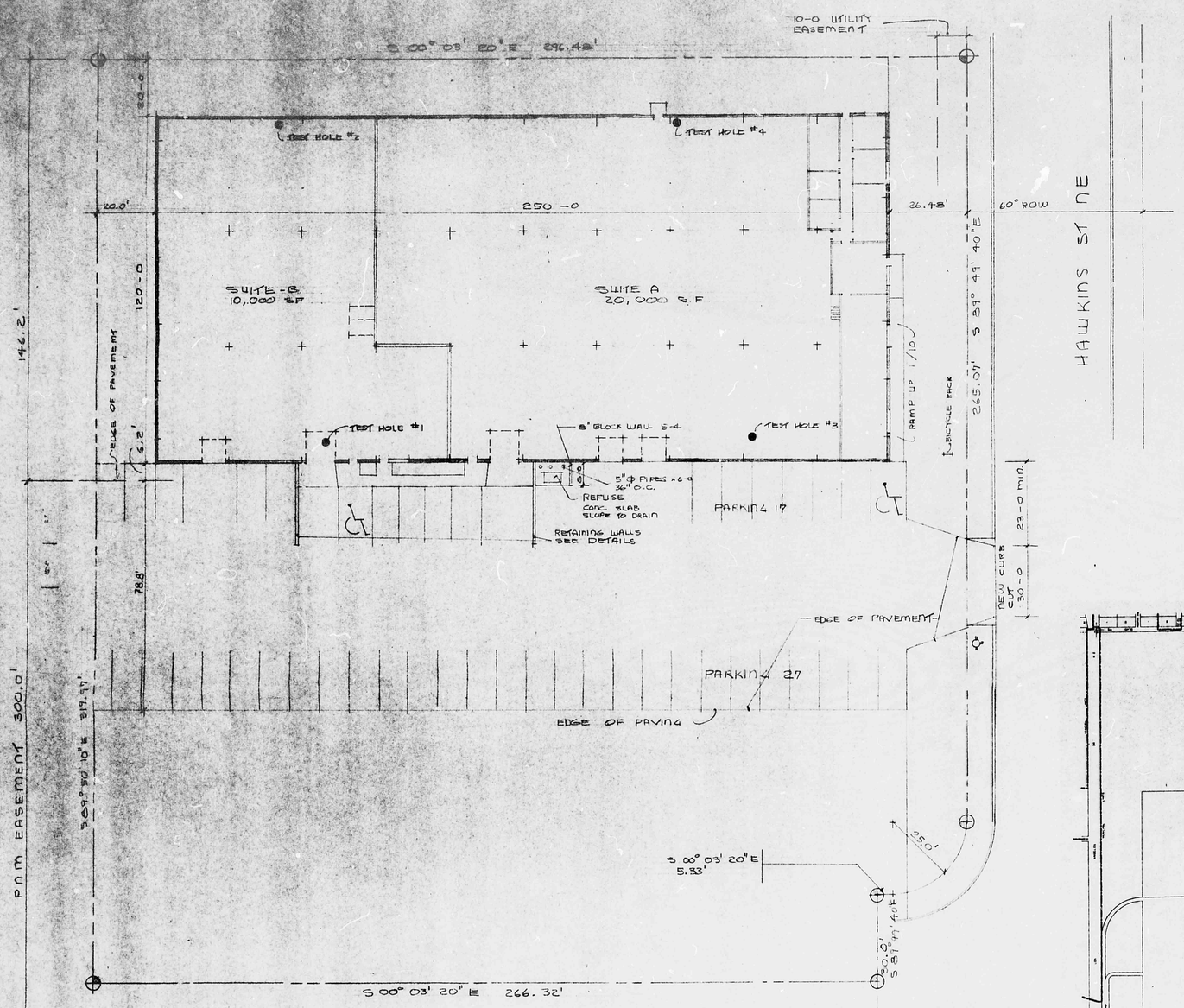
	PLANT	QUANITY	SIZE
△	MODESTO ASH	2	1.5 INCHES
2	HONEY LOCUST	2	1.5 INCHES
3	FLOWERING CRAB	3	1.5 INCHES
4	SPREADING JUNIPER	6	5 GAL
5	GRASS	——	7940 S.F.
6	GRAVEL	——	120 S.F.
7	UPRIGHT JUNIPER	1	5 GAL.
8	PYRACANTHA	2	5 GAL.
9	NANDINA	2	5 GAL.

LANDSCPING PLAN

1" = 20-0

SUNBELT DISTRIBUTING INC. (TOYS)		
Grading Plan	SUNBELT BUSINESS CENTERS 3715 HAWKINS NE ALBUQUERQUE N.MEX	10/9/81
	JOSEPH B. BURWINKLE JR & ASSOC. ARCHITECTS ALBUQ N.M	3 OF 10

UPDATED ELEVATIONS



PLOT PLAN

1" = 20 -0

SOIL TEST INFORMATION SHT 4

INTERSTATE INDUSTRIAL TRACT
UNIT IV LOT 16 2.1537 ACRES
ZONE MAP D-17 ZONE M-1

LAND COVERAGE

LAND 2.1537 ACRES =	93,815.17	S.F.
BUILDING AREA	30,000.0	S.F.
PAVING	25,160.0	S.F.
LANDSCAPING	2,800.0	S.F.
NOT DEVELOPED	35,855.17	S.F.

PARKING REQUIREMENTS

SUITE - A

OFFICE	2162/200	=	11
WAREHOUSE	20,000/2000	=	10

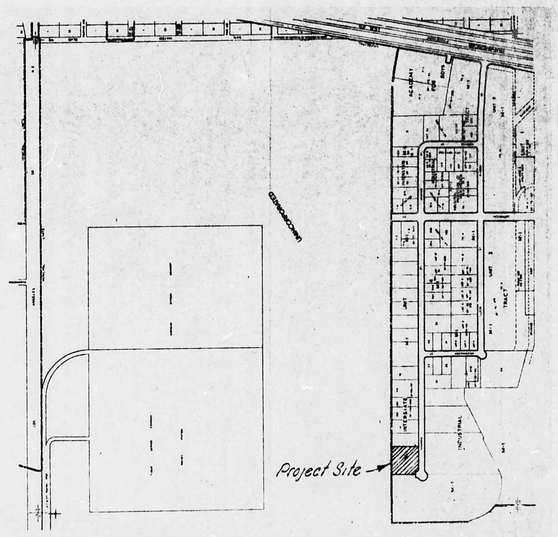
SUITE - B

OFFICE 10% =	1,000/200	=	5
WAREHOUSE	9,000/2000	=	5
			31 REQUIRED

N

PARKING SPACES 42
HANDICAPED 2
44

BICYCLE RACK - 2



VICINITY MAP

D-17-Z

BUILDING ALLOWABLE FLOOR AREA

TYPE CONSTRUCTION V-N =	8,000	SF
SEPARATION (2 SIDES) 50% =	4,000	
	12,000	
SPRINKLER SYSTEM (3 TIMES) =	36,000	
BUILDING AREA 250 x 120 =	30,000	SF

SUITE - A (TOYS)
OCCUPANCY B-2
OCCUPANTS

OFFICE	2,752/100	=	28
WAREHOUSE	20,000/300	=	7
			35

SUITE - B (SHELL ONLY)
OCCUPANCY
OCCUPANTS

DRAWING INDEX

1 COVER SHEET
2 PLOT PLAN
3 GRADING & LANDSCAPING
4 FOUNDATION PLAN & NOTES
5 FOUNDATION DETAILS
6 FLOOR PLAN
7 ELEVATIONS
8 WALL SECTIONS
9 MECH. ELECT. PLAN
10 SPECIFICATIONS

APPROVED FOR DRAINAGE
10-9-81
ADVISE CHANGE IMPORTANT
Corrected copy

SUNBELT DISTRIBUTING INC. (TOYS)

STATE OF NEW MEXICO — JOSEPH B. BURWINKLE JR. No. 450 ALBUQUERQUE NEW MEXICO — REGISTERED ARCHITECT

SUNBELT BUSINESS CENTERS
HAWKINS NE
ALBUQUERQUE N. MEX

JOSEPH B BURWINKLE JR & ASSOC - ARCHITECTS

ALBUQ. N. M.

2 OF 10