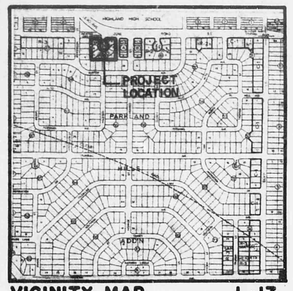
HYDROLOGY

L17/D1
ONE PLAN

L17-01

1 PLAN



VICINITY MAP **L·17**

SCALE 1" = 800'

LEGEND

- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- 5569 — EXISTING CONTOUR
- 56 — PROPOSED CONTOUR
- SWALE
- T.C. 56.25 — EXISTING TOP OF CURB
- F.L. 55.95 — EXISTING FLOW LINE
- CONCRETE
- BASIN BOUNDARY

SCALE 1" = 20'

0' 10' 20' 40'

LEGAL DESCRIPTION:

LOTS 5, 6, 7 & 9, BLOCK 48, PARKLAND HILLS ADDITION

PROPERTY ADDRESS:

500 - 518 MADISON PLACE S.E.

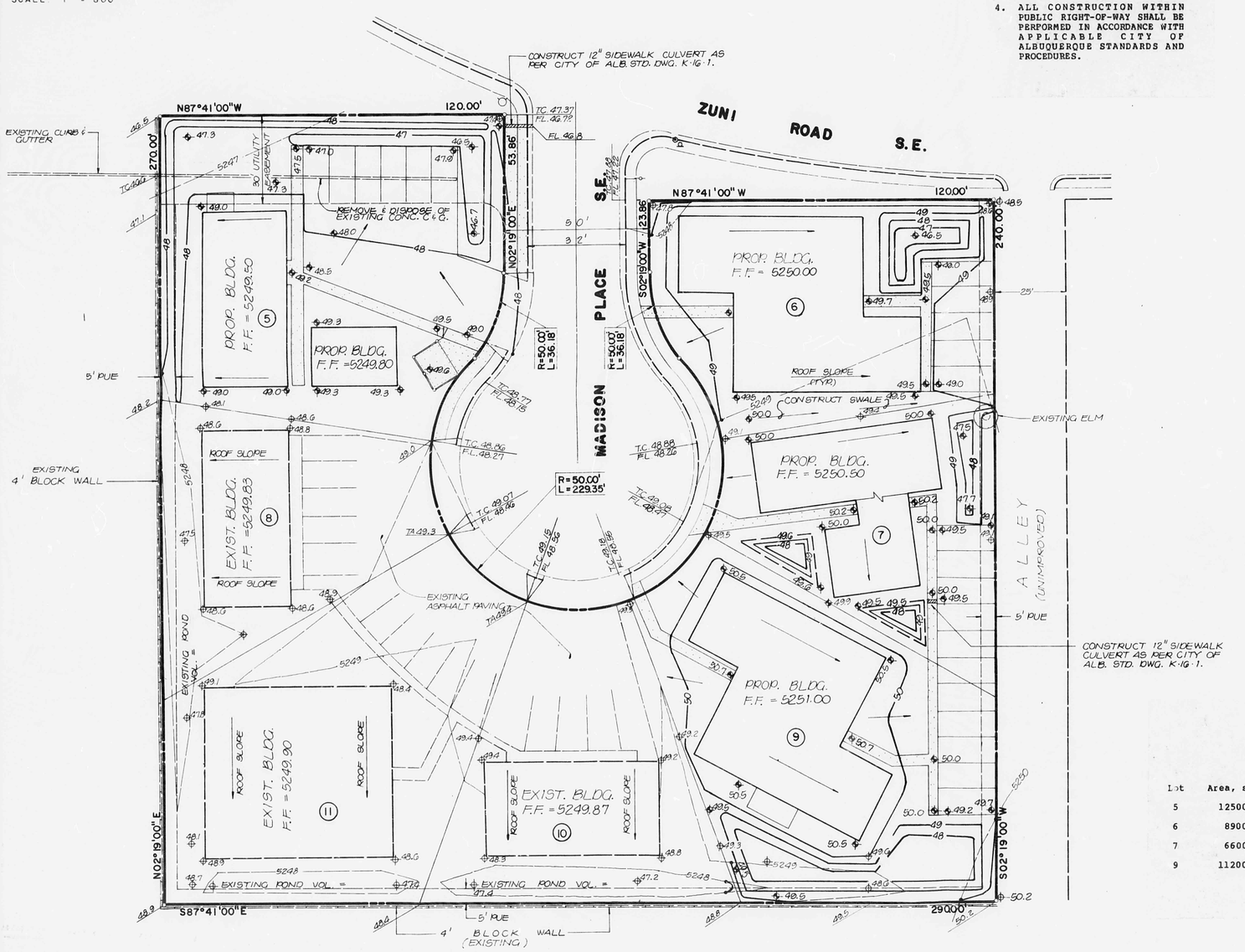
PROJECT BENCHMARK:

STATION IS A SQUARE CHISELED IN TOP OF A CONCRETE CURB @ THE NNE CURB RETURN LOCATED AT THE INTERSECTION OF MONROE ST. S.E. AND TRUMBULL AVE. S.E., ACS "10-L17."

ELEVATION : 5260.93 FEET (MSLD)

CONSTRUCTION NOTES:

1. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
3. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
4. ALL CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.



Drainage Plan

The following items concerning the Parkland Hills Apartments Drainage Plan are contained hereon:

1. Vicinity Map
2. Drainage Plan
3. Calculations

The proposed improvements, as shown by the Vicinity Map, are located on Madison Place S.E. just south of Zuni Road S.E. The site is more particularly described as Lots 5 through 11, Block 48, Parkland Hills Addition. At present, Lots 8, 10, and 11 are fully developed. This drainage plan is concerned with the development of Lots 5, 6, 7, and 9, only.

As shown by Panel 35 of the National Flood Insurance Flood Boundary and Floodway Maps for the City of Albuquerque, New Mexico, this site lies partially within a designated Flood Hazard Zone. For this reason, all finished floors are established a minimum of 1' 0" above existing grades.

The Grading Plan shows 1) existing and proposed grades as indicated by spot elevations and contours at 1' 0" intervals, 2) continuity between existing and proposed elevations, 3) proposed buildings, sidewalks, parking areas, and landscaped areas, and 4) the limit and character of the proposed improvements.

This Drainage Plan reflects an updated version of the approved drainage plan prepared in June, 1978, by Goldberg-Mann & Associates. Lots 8, 10, and 11 have been constructed in compliance with the approved plan. This Drainage Plan is concerned with the development of Lots 5, 6, 7, and 9, only. All drainage patterns remain essentially the same as the approved drainage plan. All storm runoff generated by the site will be collected in yard ponds. All yard ponds have been designed with overflow points. Lot 5 will overflow into Madison Place S.E. and drain into Zuni Road S.E. Lots 6, 7, and 9 will overflow into the alley-way located adjacent to the east property line.

The Calculations which appear below analyze both the existing and developed conditions for the 100-year, 6-hour rainfall event. The Rational Method has been used for this analysis in accordance with the City of Albuquerque Development Process Manual, Volume 2.

Calculations

Ground Cover Information:

From SCS Bernalillo County Soil Survey, Plate 31;
MWA - Madurez Wink Association and
EtC - Embudo Tijeras Series

Hydrologic Soil Group B

Rational Method:

1. Discharge: $Q = CiA$, cfs

   where C varies

   $i = P_6(6.84)T_c^{-0.51} = 4.86$ in/hr

   $P_6 = 2.3$ in

   $T_c = 10$ min (minimum)

   A = Area, Ac

2. Volume: $V = CP_6A$, cf

   where C varies

   $P_6 = 2.3$ in

   A = Area, sf

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Lot	Area, sf	% impervious	C	UNDEVELOPED Q_{100}	UNDEVELOPED V_{100}	C	DEVELOPED Q_{100}	DEVELOPED V_{100}	V_{pond}
5	12500	56	0.34	0.5	814	0.60	0.8	1438	1575
6	8900	56	0.34	0.3	580	0.60	0.6	1024	810
7	6600	63	0.34	0.2	430	0.62	0.5	784	525
9	11200	45	0.34	0.4	730	0.55	0.7	1180	1525

REGISTERED PROFESSIONAL ENGINEER 3792 NEW MEXICO

811 DALLAS, N.E. · ALBUQUERQUE · NEW MEXICO · 87110
ENGINEERS

NO.	DATE	BY	REVISIONS

DESIGNED BY D.A.L.
DRAWN BY J.M.C.
APPROVED T.T.M.

JOB NO. 80352
DATE 8·83

GRADING & DRAINAGE PLAN

PARKLAND HILL APARTMENTS

L17/D1

FILE NO.

SHEET 1 OF 1