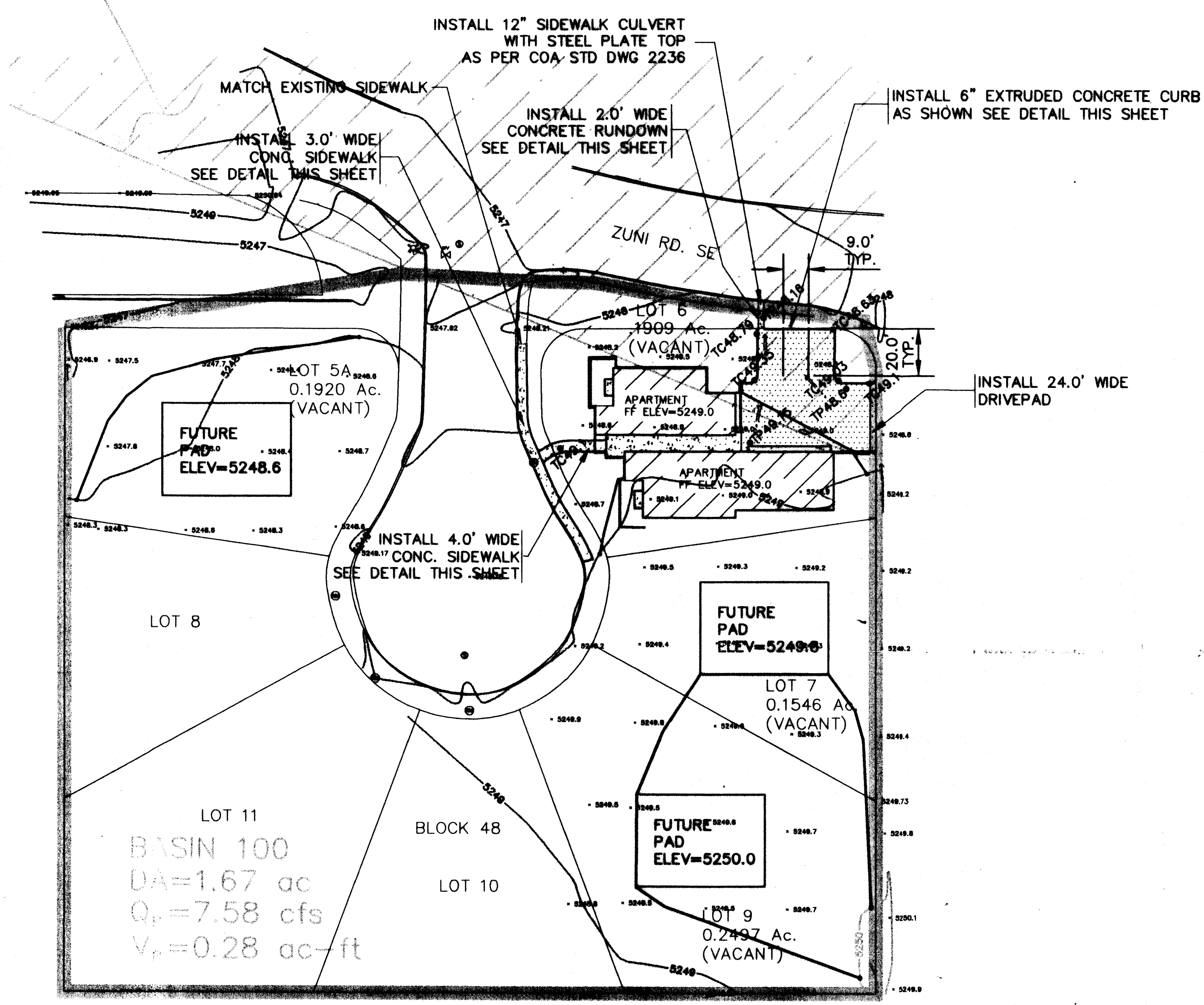
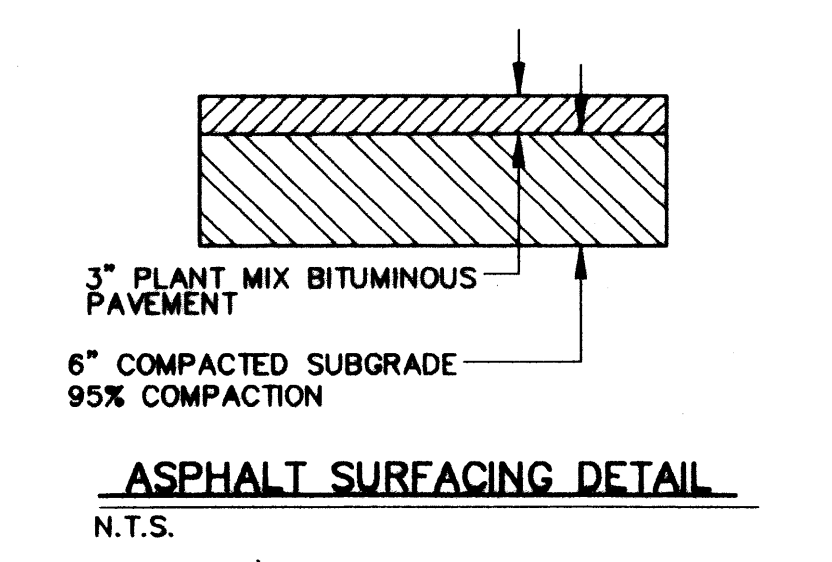
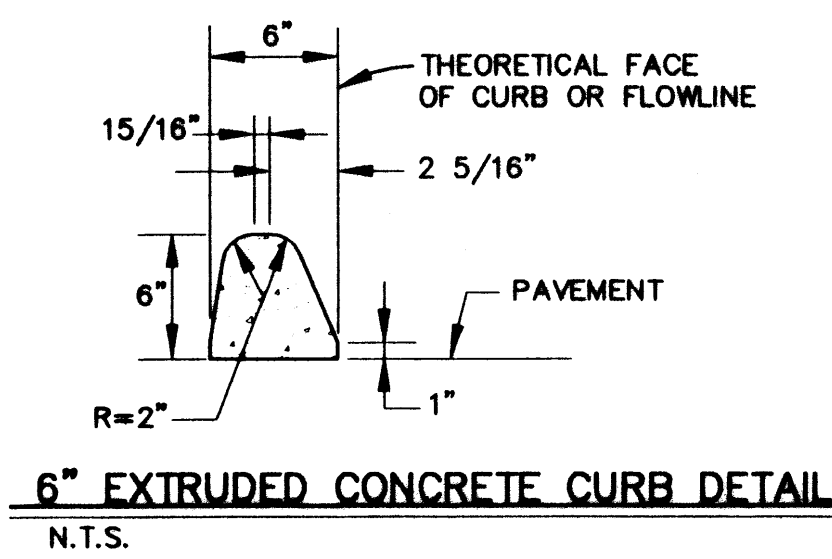
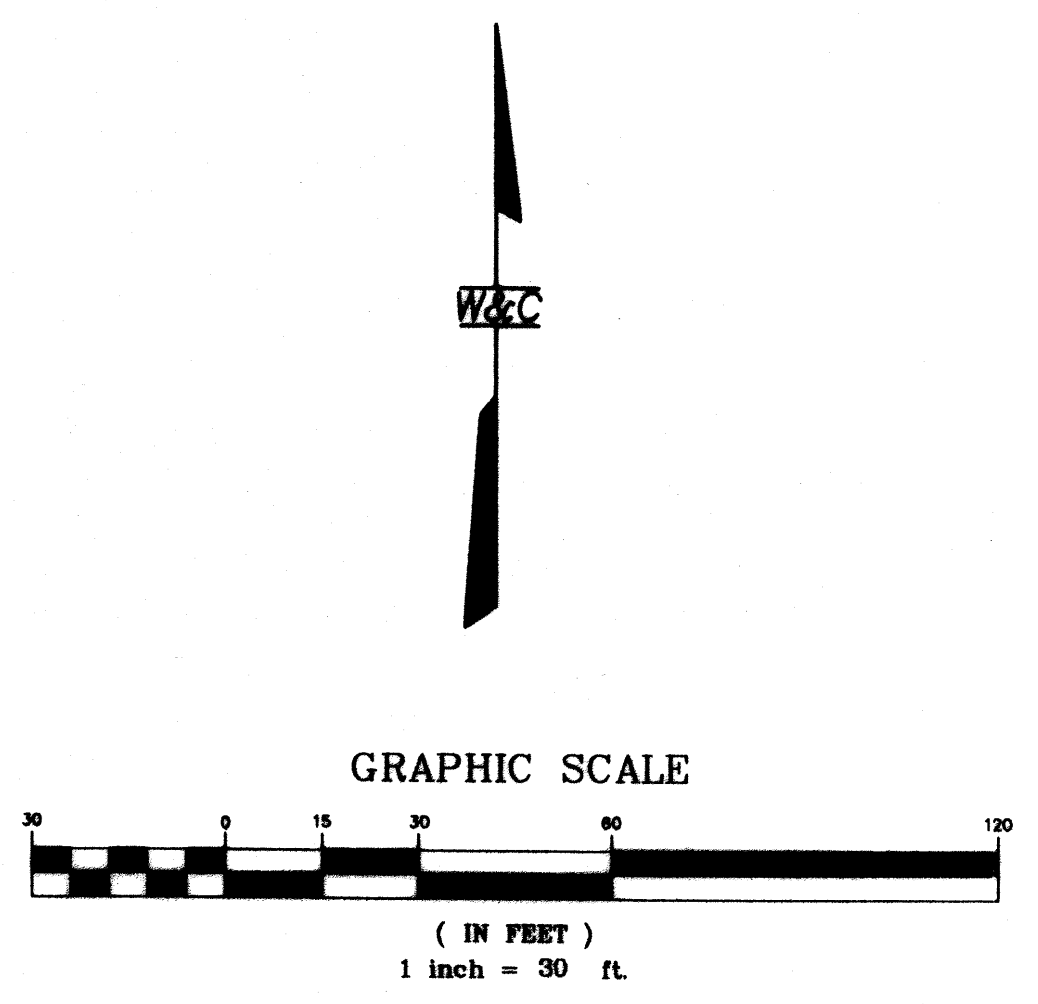
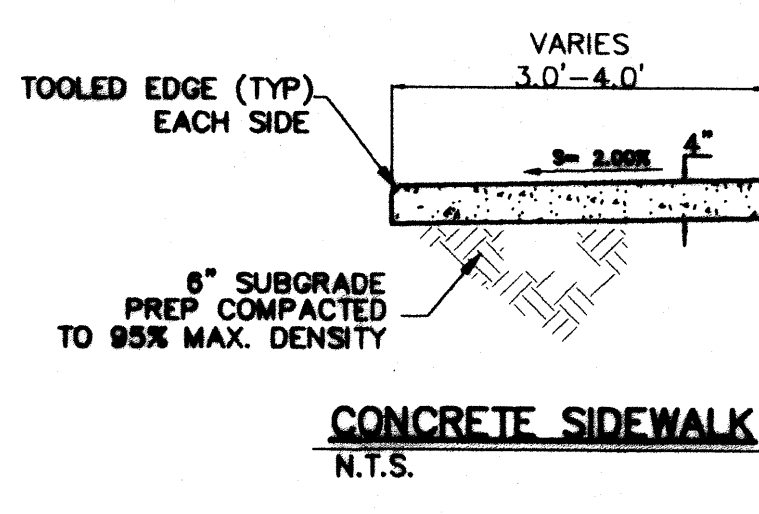
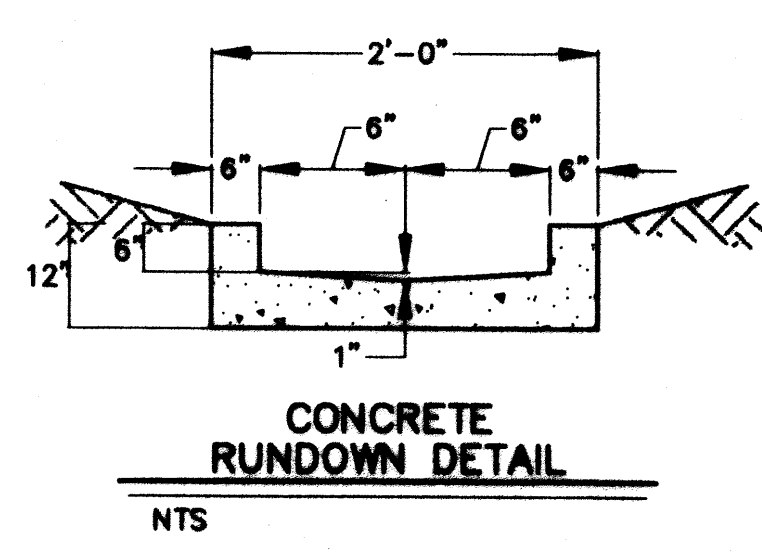


APPROXIMATE LOCATION OF FLOOD PLAIN



- LEGEND**
- 5070 ——— EXISTING INTERMEDIATE CONTOUR
 - 5071 ——— EXISTING INDEX CONTOUR
 - 5175 ——— PROPOSED INTERMEDIATE CONTOUR
 - 5173 ——— PROPOSED INDEX CONTOUR
 - + 5359.15 EXISTING SPOT ELEVATION
 - 13.1 • PROPOSED SPOT ELEVATION
 - BASIN 101 BASIN DESIGNATION
 - PROPOSED BASIN BOUNDARY
 - PROPOSED FLOWLINE
 - PROPOSED ASPHALT



DRAINAGE REPORT

Site Location: The Madison Apartments are located at the intersection of Madison Place and Zuni Road SE in Albuquerque, NM. It is located 3.6 miles SE of downtown Albuquerque.

Methodology: Section 22.2 Part A of the City of Albuquerque DPM was followed to calculate the peak rate of discharge and volume of runoff generated for Basin 100. The 100-year frequency 6-hour rainfall volume was used as the design storm. The site is located in Zone 2.

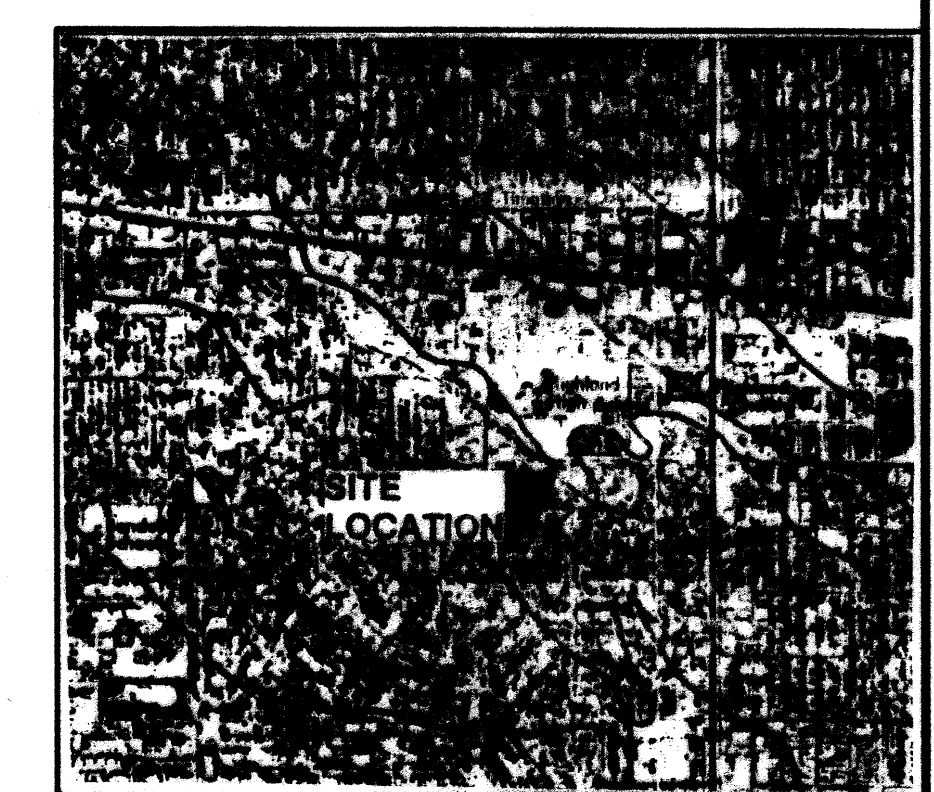
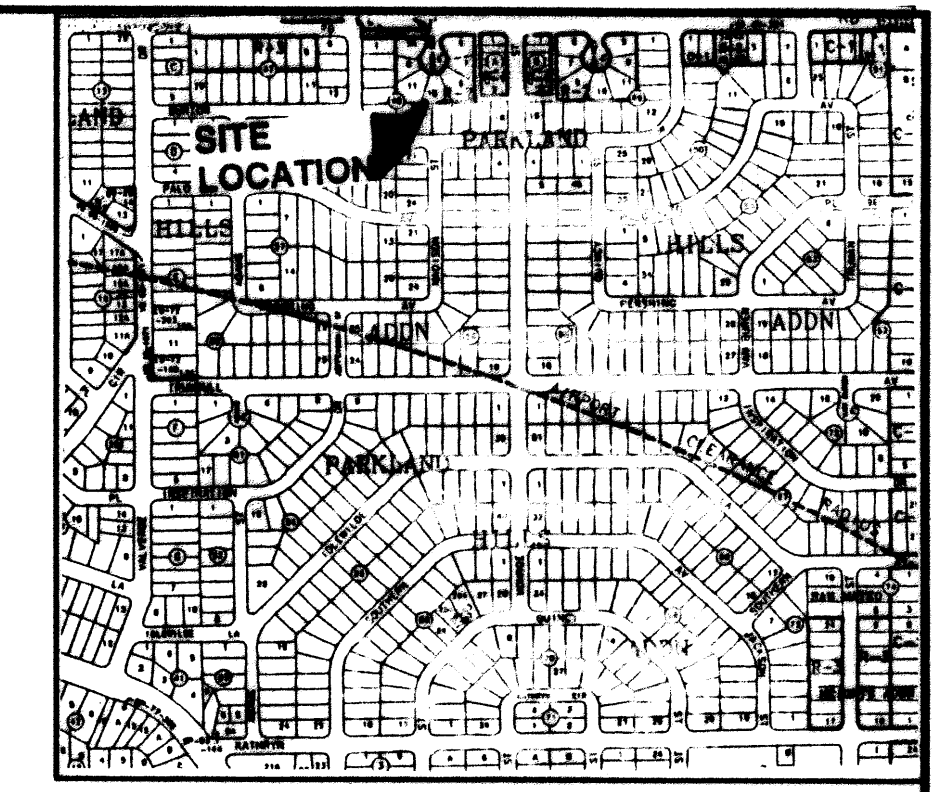
Existing Conditions: The site is a partially developed cul-de-sac with seven lots. Three lots (8, 11, 10) are developed with existing buildings. Four lots (5A, 6, 7, 9) are undeveloped. The lot has slopes sloping from southeast to northwest. The total area of the property is approximately 1.67 acres. The property is divided into one basin called Basin 100. Basin 100 drains directly to the north part of the property into discharging onto Zuni Road. Approximately 3,375 ft³ of lot 9 is in the flood plain on the north side of the site. There are no offsite flows.

Basin	Area (ac)	Treatment				V ₁₀₀ (ac-ft)	Q _p (cfs)
		%A	%B	%C	%D		
100	1.67	0	0	47	53	0.23	6.82

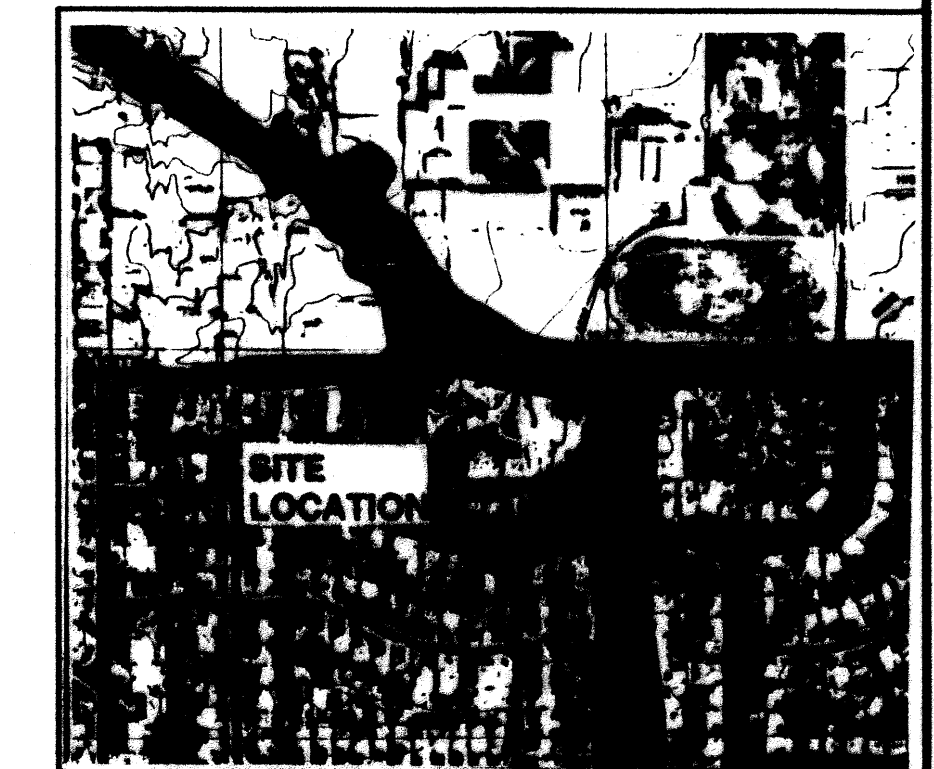
Proposed Conditions: Proposed improvements to the site include the development of one lot on the northeast part of the site. Improvements include, two apartments with sidewalk and an asphalt parking lot. Future improvements include the development of the remaining three vacant lots. These lots will contain proposed apartments with asphalt driveways. Although only one lot will be developed at this time, the proposed grading plan will provide proper drainage for all four vacant lots for future development.

Basin	Area (ac)	Treatment				V ₁₀₀ (ac-ft)	Q _p (cfs)
		%A	%B	%C	%D		
100	1.67	0	0	10	90	0.28	7.58

Conclusions: Runoff and flow rate had a slight increase as a result of changes in land treatment areas for Basin 100. Runoff has increased by .05 ac-ft and the peak flowrate has increased by 0.98 cfs. The proposed runoff will discharge onto Zuni Road.



REFERENCE: SCS BERNALILLO COUNTY SOIL SURVEY SHEET NO. 31



REFERENCE: FLOOD INSURANCE STUDY PANEL 29 & 35

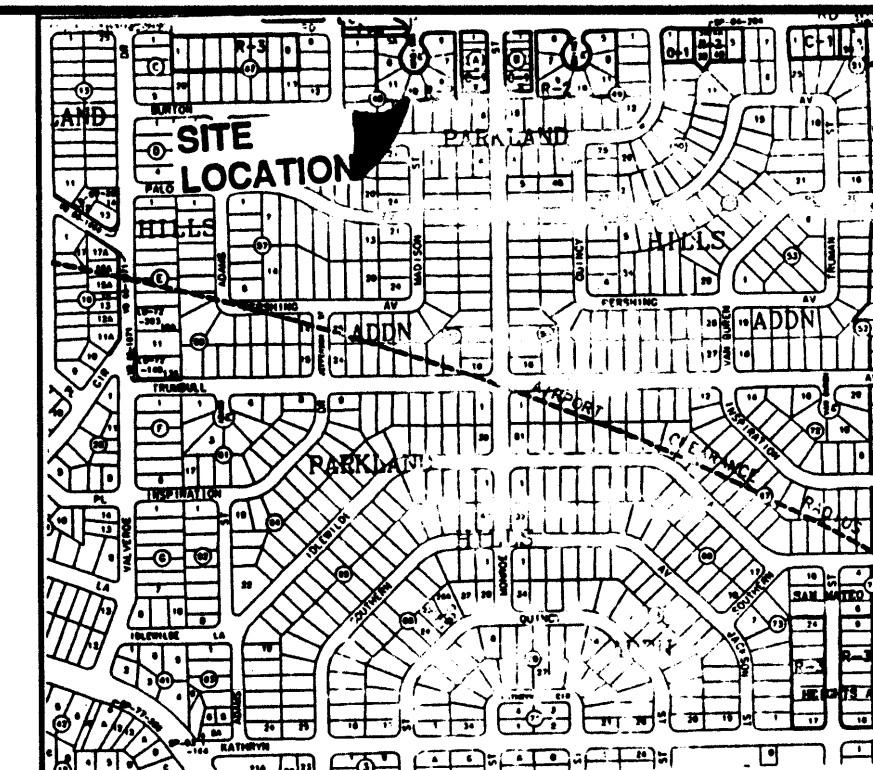
LEGAL DESCRIPTION

LOT NUMBERED 5-A IN BLOCK NUMBERED 48 BEING A REPLAT OF LOT 5, BLOCK 48 OF PARKLAND HILLS ADDITION

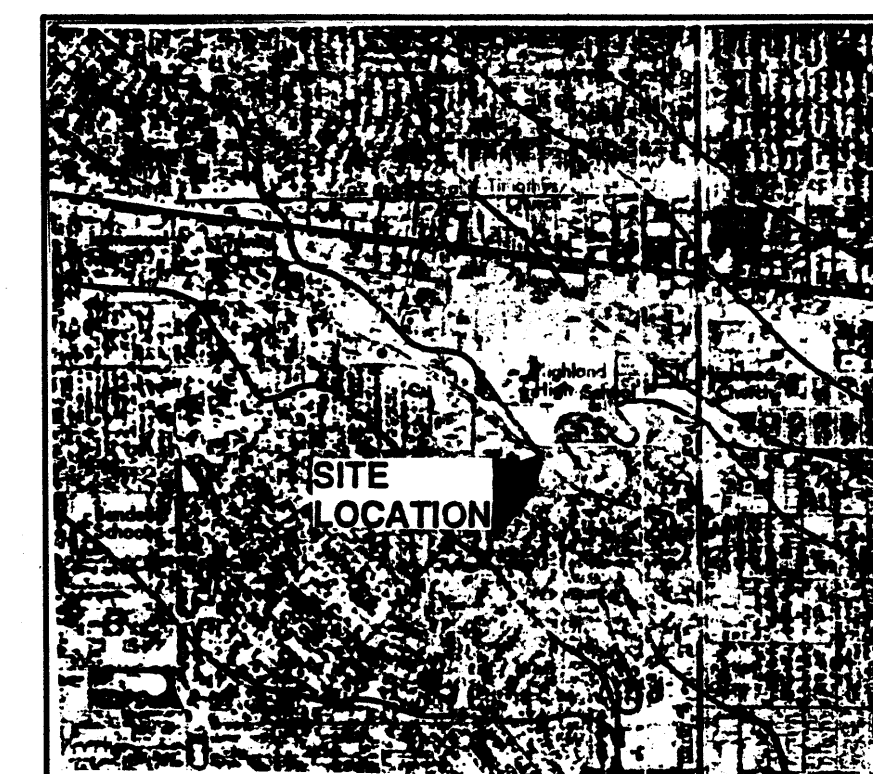
BENCH MARK

STATION IS A 3-1/4" ALUMINUM TABLET SET IN A DRILL HOLE FLUSH WITH THE TOP OF CONCRETE CURB. STATION IS STAMPED "ACS, 13-L17,1984" LOCATED 3.6 MILES SE OF DOWNTOWN ALBUQUERQUE AT THE INTERSECTION OF ZUNI RD. AND MADISON PLACE. ELEVATION= 5247.571 FT.

WILSON & COMPANY 4775 INDIAN SCHOOL ROAD N.E. SUITE 200 ALBUQUERQUE, NEW MEXICO 87110 (505) 254-4000				DATE FEBRUARY 1999
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP		MADISON APARTMENTS GRADING & DRAINAGE PLAN		FILE NO. 99007
Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
City Project No.	Zone Map No. L-17	Sheet	1	Of 1



LOCATION MAP
ZONE ATLAS MAP NO. L-17



SOILS MAP
REFERENCE: SCS BERNALILLO COUNTY SOIL SURVEY
SHEET NO. 31



FLOOD INSURANCE MAP
REFERENCE: FLOOD INSURANCE STUDY
PANEL 29 & 35

DRAINAGE REPORT

Site Location: The Madison Apartments are located at the intersection of Madison Place and Zuni Road SE in Albuquerque, NM. It is located 3.6 miles SE of downtown Albuquerque.

Methodology: Section 22.2 Part A of the City of Albuquerque DPM was followed to calculate the peak rate of discharge and volume of runoff generated for Basin 100. The 100-year frequency 8-hour rainfall volume was used as the design storm. The site is located in Zone 2.

Existing Conditions: The site is a partially developed cul-de-sac with seven lots. Three lots (8, 11, 10) are developed with existing apartment buildings with asphalt driveways and concrete sidewalks. Four lots (5A, 6, 7, 9) are undeveloped. The lot has slopes sloping from southeast to northwest. The existing flow drains directly into Zuni Road. The total area of the property is approximately 1.67 acres. The property is divided into one basin called Basin 100. Basin 100 drains directly to the north part of the property into discharging onto Zuni Road. Approximately 3,375 ft² of lot 9 is in the flood plain on the north side of the site. There are no offsite flows.

Basin	Area (ac)	Treatment				V ₁₀₀ (ac-ft)	Q _p (cfs)
		%A	%B	%C	%D		
100	1.67	0	0	56	44	0.218	6.40

Proposed Conditions: Proposed improvements to the site include the development of one lot on the northeast part of the site. Improvements include, two apartments with sidewalk and an asphalt parking lot. Future improvements include the development of the remaining three vacant lots. These lots will contain proposed apartments with asphalt driveways. Although only one lot will be developed at this time, the proposed grading plan will provide proper drainage for all four vacant lots for future development.

Basin	Area (ac)	Treatment				V ₁₀₀ (ac-ft)	Q _p (cfs)
		%A	%B	%C	%D		
100	1.67	0	5	15	80	0.265	7.256

Conclusions: Runoff and flow rate had a slight increase as a result of changes in land treatment areas for Basin 100. Runoff has increased by 0.047 ac-ft and the peak flowrate has a slight increase of 0.856 cfs. The proposed runoff will discharge onto Zuni Road.



ENGINEER'S CERTIFICATION
I, DANIEL S. AGUIRRE, DO HEREBY CERTIFY THAT LOT 6 OF THE SITE, IS GRADED HEREON AND IS IN SUSTANTIAL COMPLIANCE WITH THE APPROVED DRAINAGE PLAN.

LEGAL DESCRIPTION

LOT NUMBERED 5-A IN BLOCK NUMBERED 48 BEING A REPLAT OF LOT 5, BLOCK 48 OF PARKLAND HILLS ADDITION

BENCH MARK

STATION IS A 3-1/4" ALUMINUM TABLET SET IN A DRILL HOLE FLUSH WITH THE TOP OF CONCRETE CURB. STATION IS STAMPED "ACS, 13-L17,1984" LOCATED 3.6 MILES SE OF DOWNTOWN ALBUQUERQUE AT THE INTERSECTION OF ZUNI RD. AND MADISON PLACE. ELEVATION= 5247.571 FT.

WILSON & COMPANY
4775 INDIAN SCHOOL ROAD N.E.
SUITE 200
ALBUQUERQUE, NEW MEXICO
87110
(505) 254-4000

DATE FEBRUARY 1999	FILE NO. 99007	DESIGN SJS	DRAWN SJS
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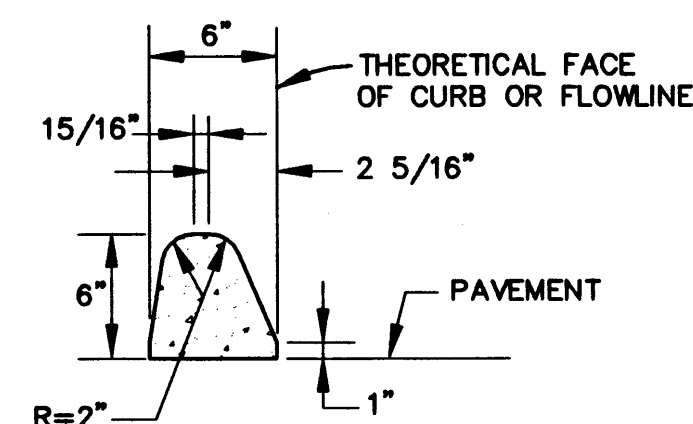
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

MADISON APARTMENTS GRADING & DRAINAGE PLAN

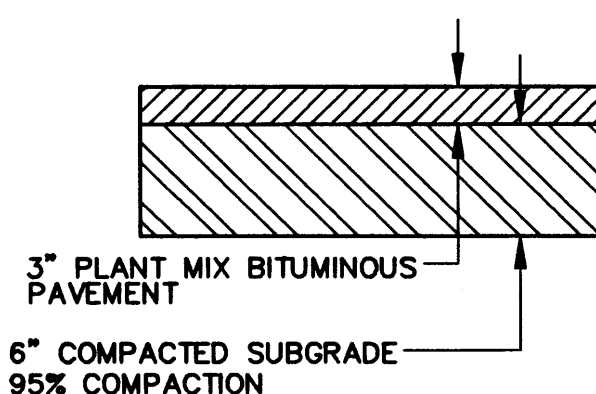
Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
City Project No.	Zone Map No. L-17	Sheet 1	Of 1

99004

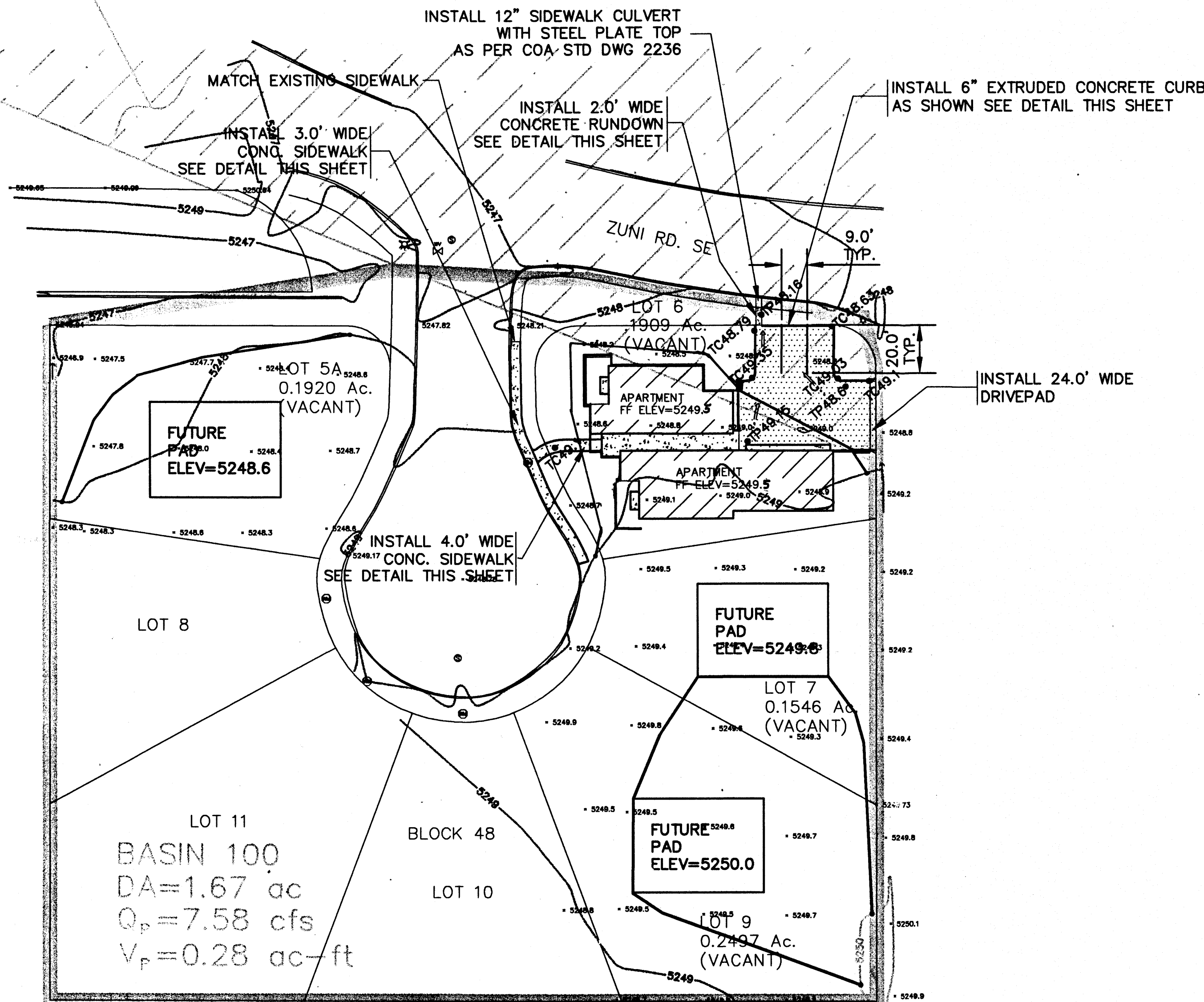
APPROXIMATE LOCATION
OF FLOOD PLAIN



6" EXTRUDED CONCRETE CURB DETAIL
N.T.S.

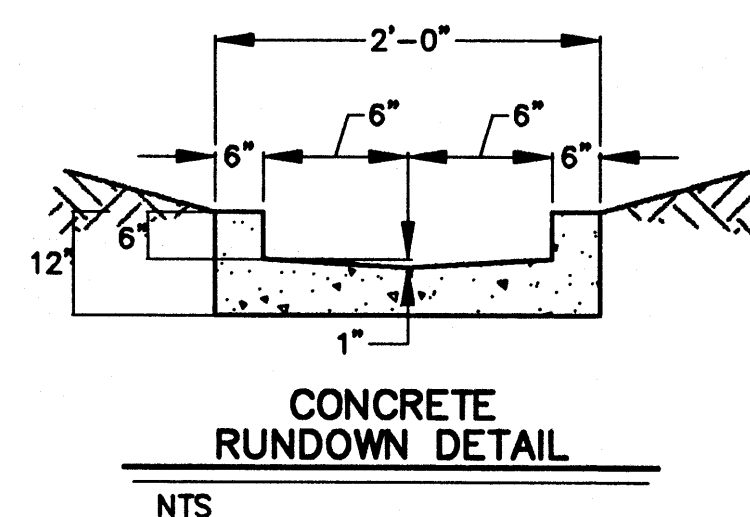


ASPHALT SURFACING DETAIL
N.T.S.

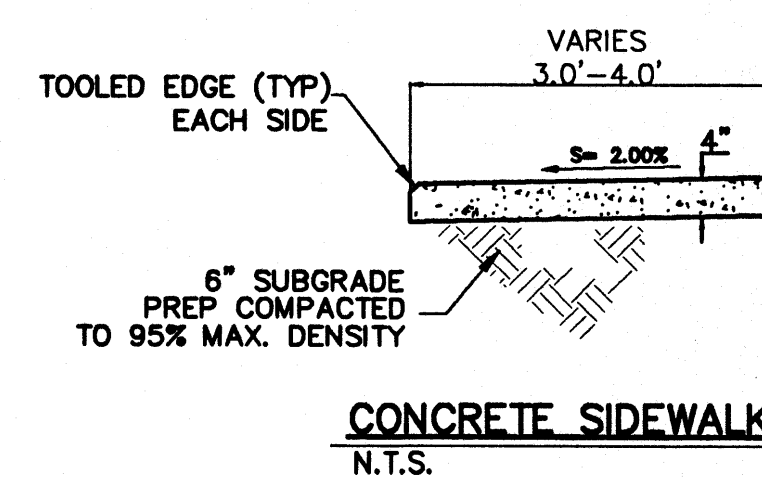


LEGEND

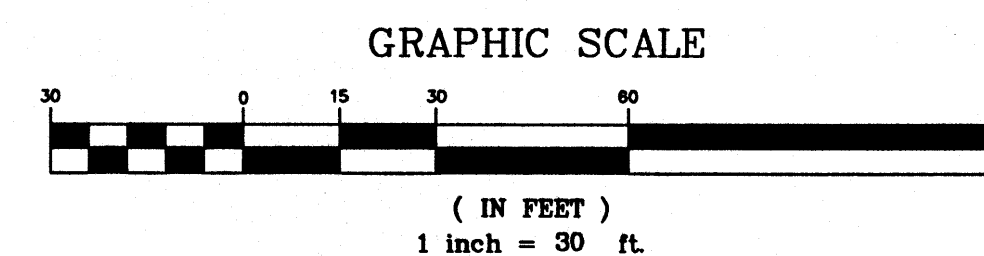
5070	EXISTING INTERMEDIATE CONTOUR
5071	EXISTING INDEX CONTOUR
5175	PROPOSED INTERMEDIATE CONTOUR
5173	PROPOSED INDEX CONTOUR
+ 5359.15	EXISTING SPOT ELEVATION
13.1	PROPOSED SPOT ELEVATION
BASIN 101	BASIN DESIGNATION
	PROPOSED BASIN BOUNDARY
	PROPOSED FLOWLINE
	PROPOSED ASPHALT



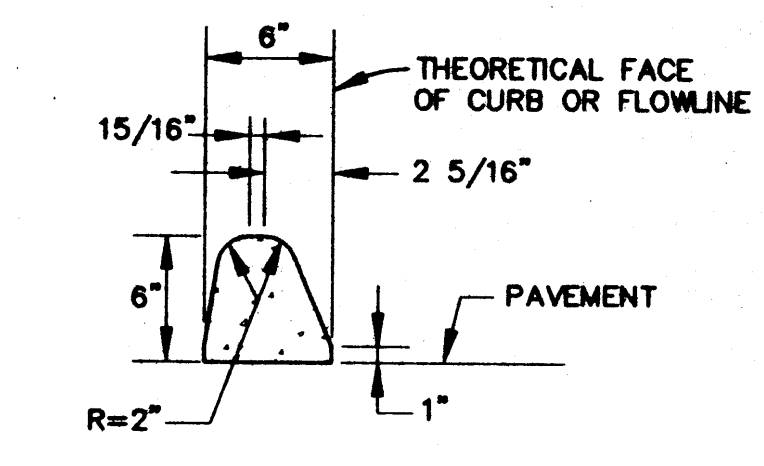
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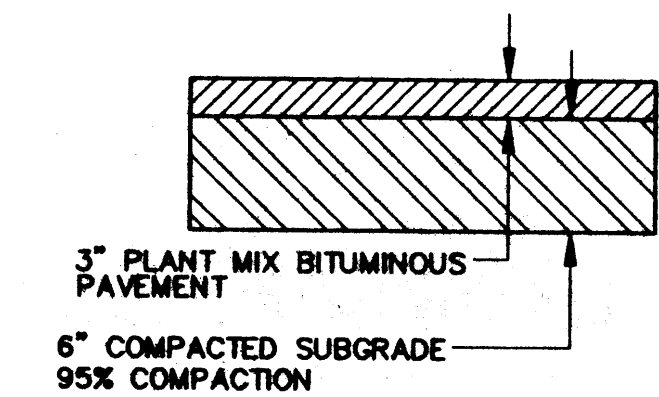
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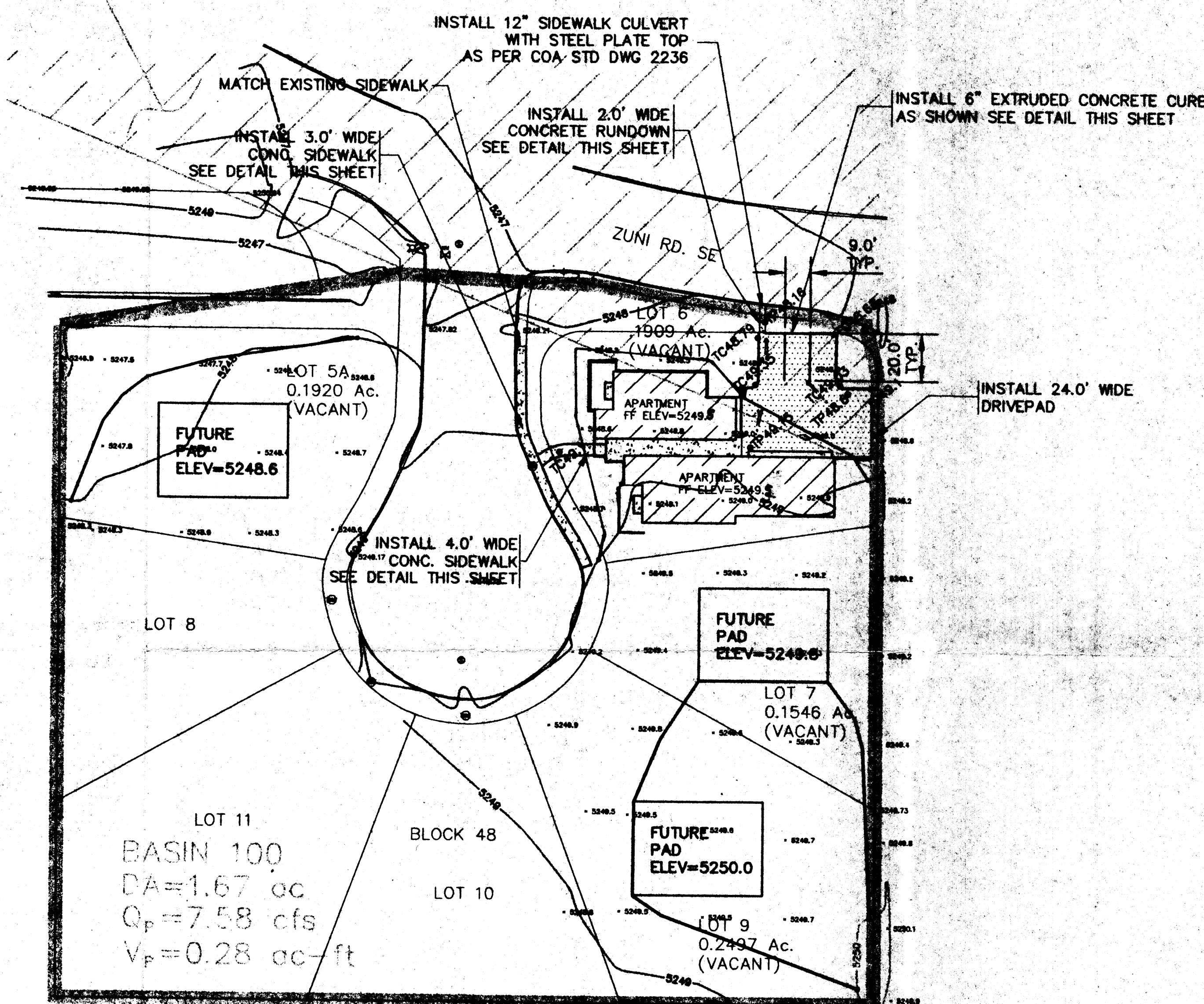
APPROXIMATE LOCATION
OF FLOOD PLAIN



6" EXTRUDED CONCRETE CURB DETAIL
N.T.S.



ASPHALT SURFACING DETAIL
N.T.S.



DRAINAGE REPORT

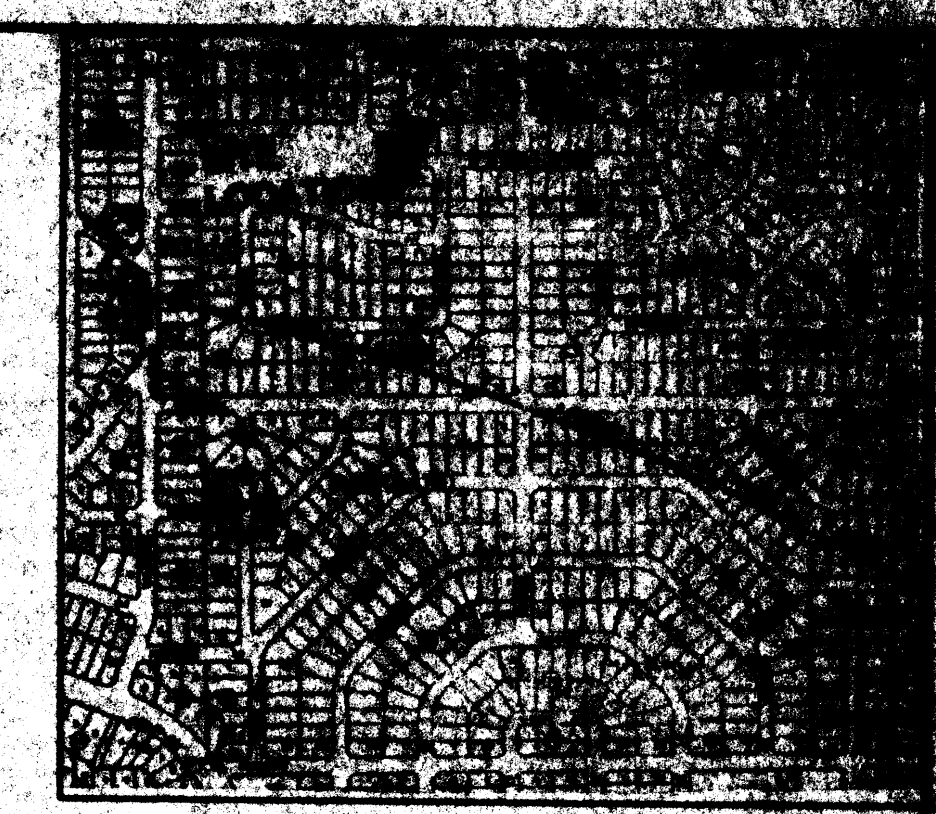
The Madison Apartments are located at the intersection of Parkland Place and 2nd Street SE in Albuquerque, N.M. It is located 3.6 miles SE of downtown Albuquerque.

Background: Section 22.2 Part A of the City of Albuquerque Ordinance requires that the applicant submit a drainage report and plans of layout prepared for the project. The report shall include a flow diagram showing the proposed design storm. The design storm shall be based on the 24-hour design storm.

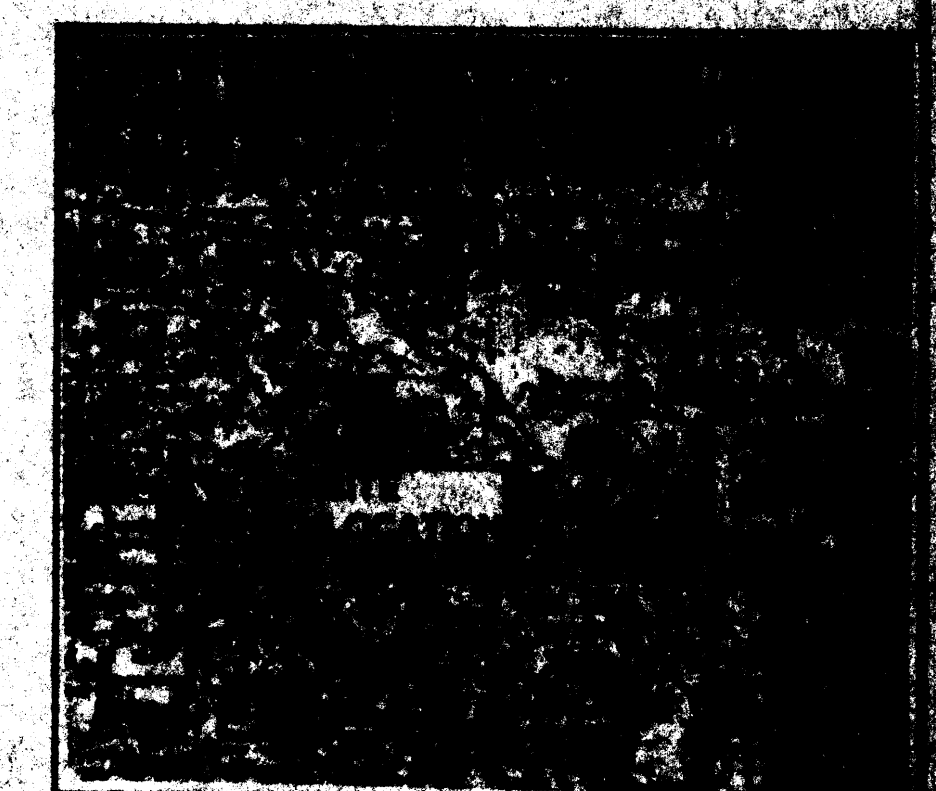
Design Criteria: The site is located in a flood plain area. The design storm shall be based on the 24-hour design storm. The design storm shall be based on the 24-hour design storm.

Proposed Design: The proposed design is based on the 24-hour design storm. The proposed design is based on the 24-hour design storm. The proposed design is based on the 24-hour design storm.

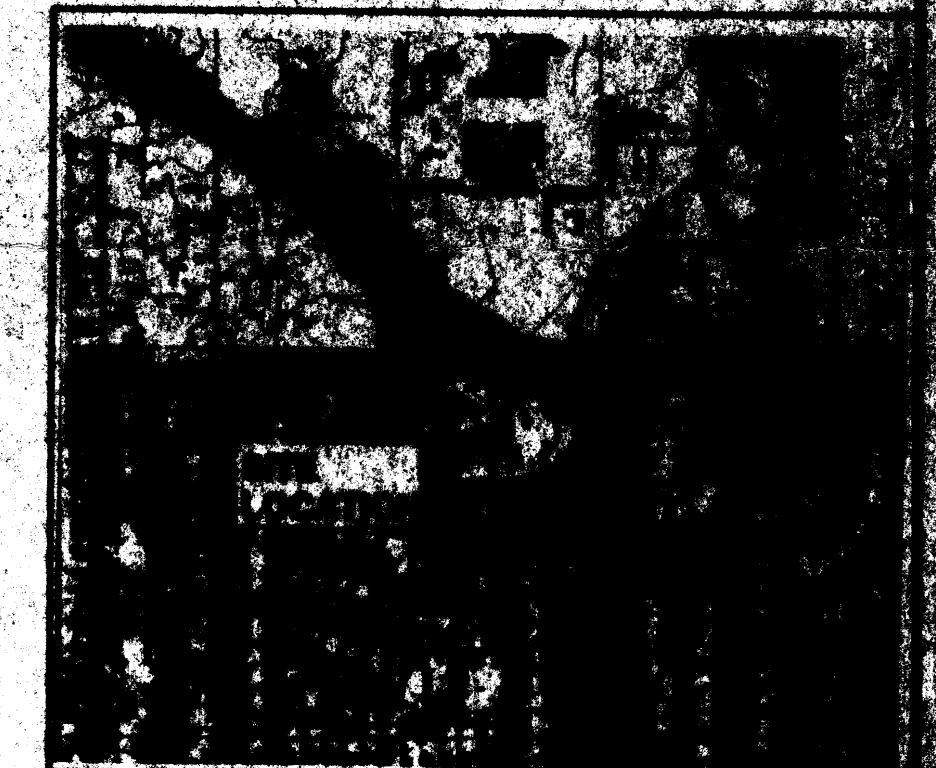
Proposed Design: The proposed design is based on the 24-hour design storm. The proposed design is based on the 24-hour design storm. The proposed design is based on the 24-hour design storm.



LOCATION MAP
ZONE ATLAS MAP NO. L-17



SOILS MAP
REFERENCE: SCS BERNALILLO COUNTY SOIL SURVEY SHEET NO. 31



FLOOD INSURANCE MAP
REFERENCE: FLOOD INSURANCE STUDY PANEL 29 & 30

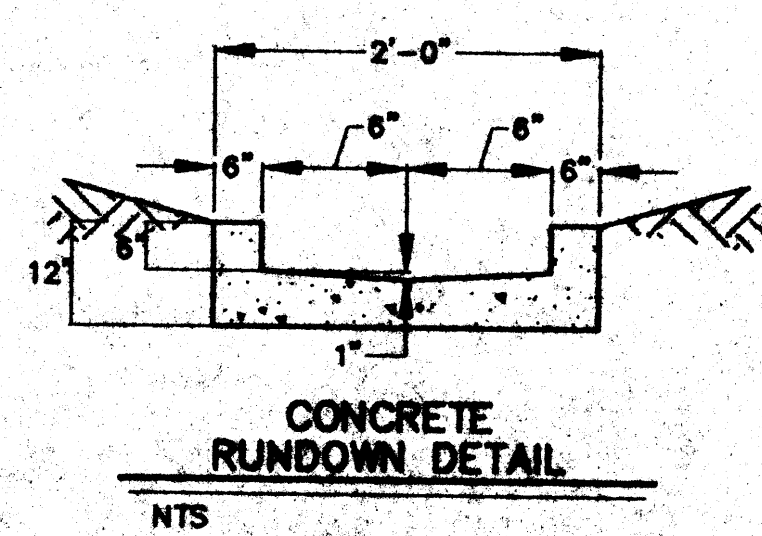
LEGAL DESCRIPTION

LOT NUMBERED 5-A IN BLOCK NUMBERED 48 BEING A REPLAT OF LOT 5, BLOCK 48 OF PARKLAND HILLS ADDITION.

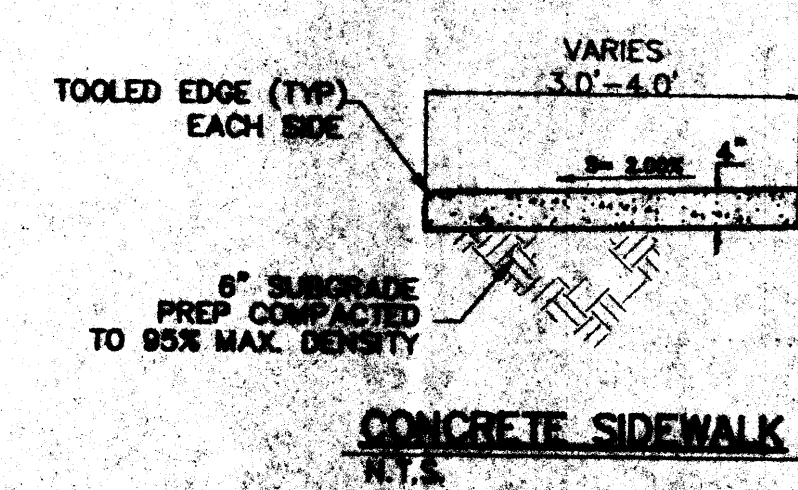
BENCH MARK

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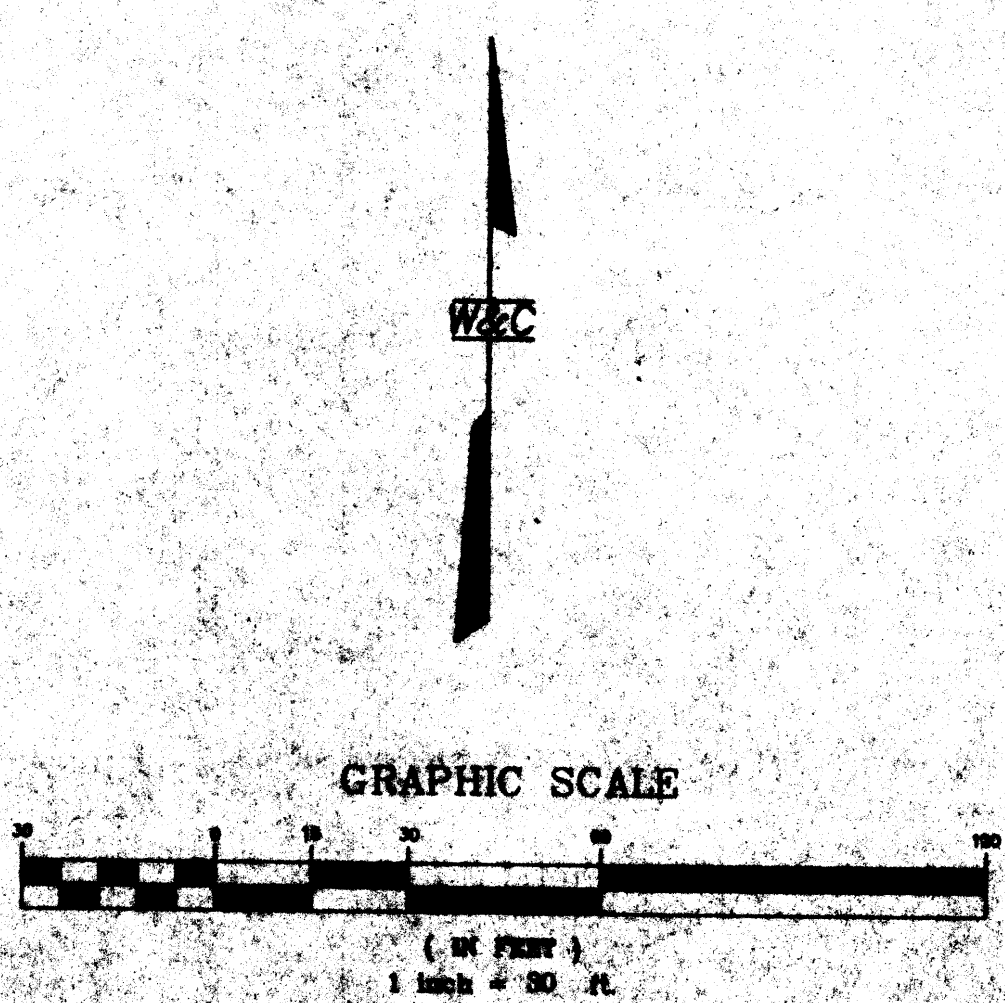
- LEGEND**
- 5070 EXISTING INTERMEDIATE CONTOUR
 - 5071 EXISTING INDEX CONTOUR
 - 5175 PROPOSED INTERMEDIATE CONTOUR
 - 5173 PROPOSED INDEX CONTOUR
 - + 5359.15 EXISTING SPOT ELEVATION
 - 731. PROPOSED SPOT ELEVATION
 - BASIN 101 BASIN DESIGNATION
 - PROPOSED BASIN BOUNDARY
 - PROPOSED FLOWLINE
 - PROPOSED ASPHALT



CONCRETE RUNOFF DETAIL
N.T.S.



CONCRETE SIDEWALK
N.T.S.



WILSON & COMPANY
4775 INDIAN SCHOOL ROAD N.E., SUITE 200
ALBUQUERQUE, NEW MEXICO 87110
(505) 254-4000

**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP**

**MADISON APARTMENTS
GRADING & DRAINAGE PLAN**

Design Review Committee City Engineer Approval

City Project No. 1-17