DRAINAGE INFORMATION SHEET

PROJECT TITLE: LDS Church Site ZONE ATLAS/DRNG. FILE #: E-11/D23A

DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: Lot 8, Blk. 2 Unit 3 Volcano Cliffs Subdivision

CITY ADDRESS: ~~Bear Claw Dr. NW~~ 6009 Kachina NW

ENGINEERING FIRM: Wilson and Company CONTACT: Kristine Susco

ADDRESS: 4775 Indian School Road NE 87110 PHONE: (505)254-4059

OWNER: Taylor Ranch Church of LDS CONTACT: Max Ivy

ADDRESS: 6009 Kachina Dr. NW 87120 PHONE: (505)298-9706

ARCHITECT: Thomas E. Robson CONTACT: Thomas Robson

ADDRESS: 5905 Marble NE PHONE: (505)266-9013

SURVEYOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

_____ DRAINAGE REPORT
_____ DRAINAGE PLAN
_____ CONCEPTUAL GRADING & DRAINAGE PLAN
_____ GRADING PLAN
_____ EROSION CONTROL PLAN
X ENGINEER'S CERTIFICATION
_____ OTHER _____

PRE-DESIGN MEETING:

_____ YES
_____ NO
_____ COPY PROVIDED

Cover 30 day Temp CO.

CHECK TYPE OF APPROVAL SOUGHT:

____ SKETCH PLAT APPROVAL
____ PRELIMINARY PLAT APPROVAL
____ S. DEV. PLAN FOR SUB'D. APPROVAL
____ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
____ SECTOR PLAN APPROVAL
____ FINAL PLAT APPROVAL
____ FOUNDATION PERMIT APPROVAL
____ BUILDING PERMIT APPROVAL
X CERTIFICATE OF OCCUPANCY APPROVAL
____ GRADING PERMIT APPROVAL
____ PAVING PERMIT APPROVAL
____ S.A.D. DRAINAGE REPORT
____ DRAINAGE REQUIREMENTS
____ OTHER _____ (SPECIFY)

DATE SUBMITTED: 6-26-96
BY: Kristine Susco

JUL - 2 [illegible]

CITY OF
Albuquerque

July 10, 1996

Martin J. Chávez, Mayor

Daniel S. Aguirre
Wilson & Company
4775 Indian School Rd. NE
Albuquerque, NM 87110

RE: ENGINEER CERTIFICATION FOR LDS CHURCH SITE (E11-D23A)
CERTIFICATION STATEMENT DATED 6/25/96.

Dear Mr.Aguirre:

Based on the information provided on your July 2, 1996 submittal, Engineer Certification for the above referenced site is acceptable.

If I can be of further assistance, please feel free to contact me at 768-2667.

Sincerely,

Bernie J. Montoya, CE
Engineering Associate

BJM/dl

c: Andrew Garcia
File

Drainage Report
LDS Church Parking Lot Site

Site Location and Description

The site is located at the NE corner of Bear Claw Drive NW and Cochiti Drive NW. The site is currently undeveloped. The proposed development consists of a paved parking lot with curb and gutter.

Methodology

The Development Process Manual, Volume 2, Design Criteria for the City of Albuquerque was followed to calculate peak runoff for the site. The method used to determine the runoff for the site basins is designated Part A in the revised section 22.2. Using the 100-year frequency 6-hour rainfall volume as the design storm, the charts and formulas in Part A were followed. The site is located in Zone 1 as determined from Figure A, and the peak discharge was determined using Table 9.

Existing Conditions

The site has one basin. The project site has been uncompacted by human activity and is cross sloped at approximately 1% from the northeast corner of the lot to the southeast corner of the property. The following calculations show the peak discharge and volume for the 100-year 6-hour event.

HYDROLOGY CALCULATIONS: EXISTING CONDITIONS

Basin	Land Treatment	Zone	Area (Acres)	Peak Discharge (cfs/acre)	Runoff Q (cfs)	E_w (in)	V (ac-ft)
1	A	1	0.59	1.29	0.76	0.44	0.022

Proposed Conditions:

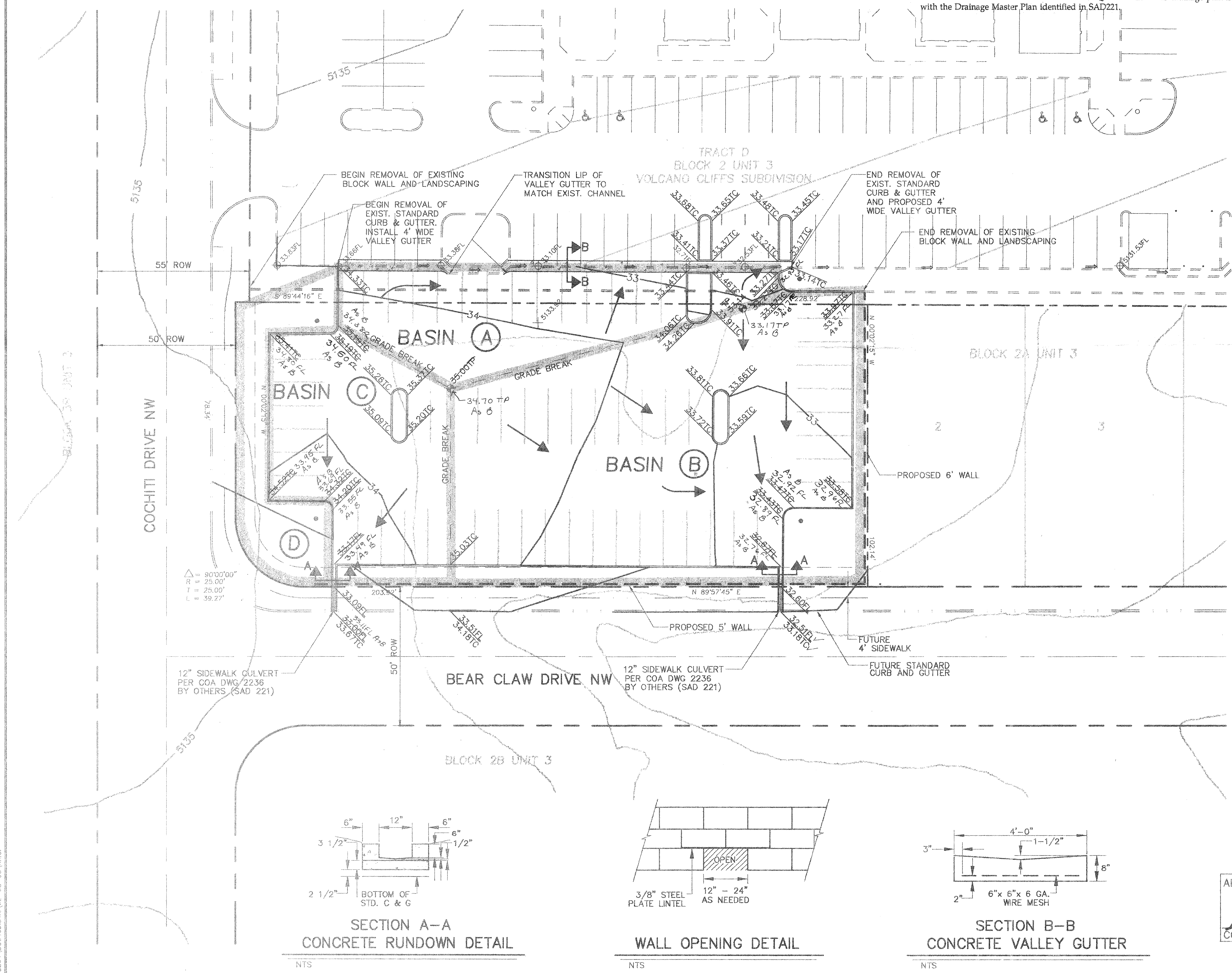
Proposed conditions include paving and installation of curb and gutter to create a parking lot. The parking area, to be entered from the north and adjacent parking lot and church site, is intended to enlarge the current parking capacity. The site is divided into four basins. Basin A slopes to the north and discharges into an existing swale which then discharges into San Ildefonso Drive NW (E11/D23). Basin B slopes to the southwest corner of the site and free discharges into Bear Claw Drive NW through a concrete rundown and sidewalk culvert. Basin C slopes to the southeast and free discharges into Bear Claw Drive NW through a concrete rundown and sidewalk culvert. Both sidewalk culverts are to be constructed in SAD221. Basin D will sheet flow to Cochiti Drive NW.

HYDROLOGY CALCULATIONS: PROPOSED CONDITIONS

Basin	Land Treatment	Zone	Area (Acres)	Peak Discharge (cfs/acre)	Runoff Q (cfs)	E_w (in)	V (ac-ft)
A	D	1	0.11	4.37	0.48	1.97	0.023
B	B	1	0.03	2.03	0.06		
	D	1	0.29	4.37	1.27	1.85	0.061
C	D	1	0.12	4.37	0.52	1.97	0.045
D	B	1	0.05	2.03	0.10	0.67	0.003
		SUB TOTAL	0.60		2.43		0.132

Conclusion:

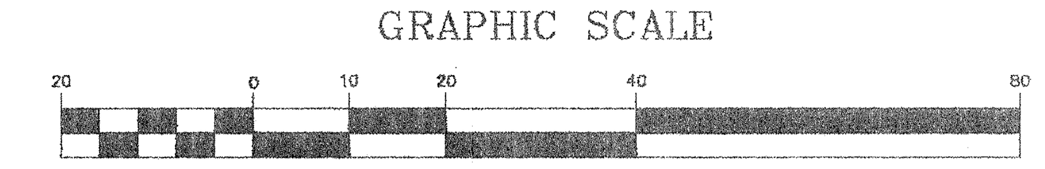
Based on these calculations, the site will discharge an additional 0.48 cfs into an existing basin which then discharges into San Ildefonso Drive NW with a total Q of 6.1 cfs. Basins B and C will discharge, through two 12" sidewalk culverts, a total Q of 1.9 cfs into Bear Claw Drive NW. Basin D will sheet flow to Cochiti Drive NW with a Q of 0.10 cfs. This drainage plan is in accordance with the Drainage Master Plan identified in SAD221.



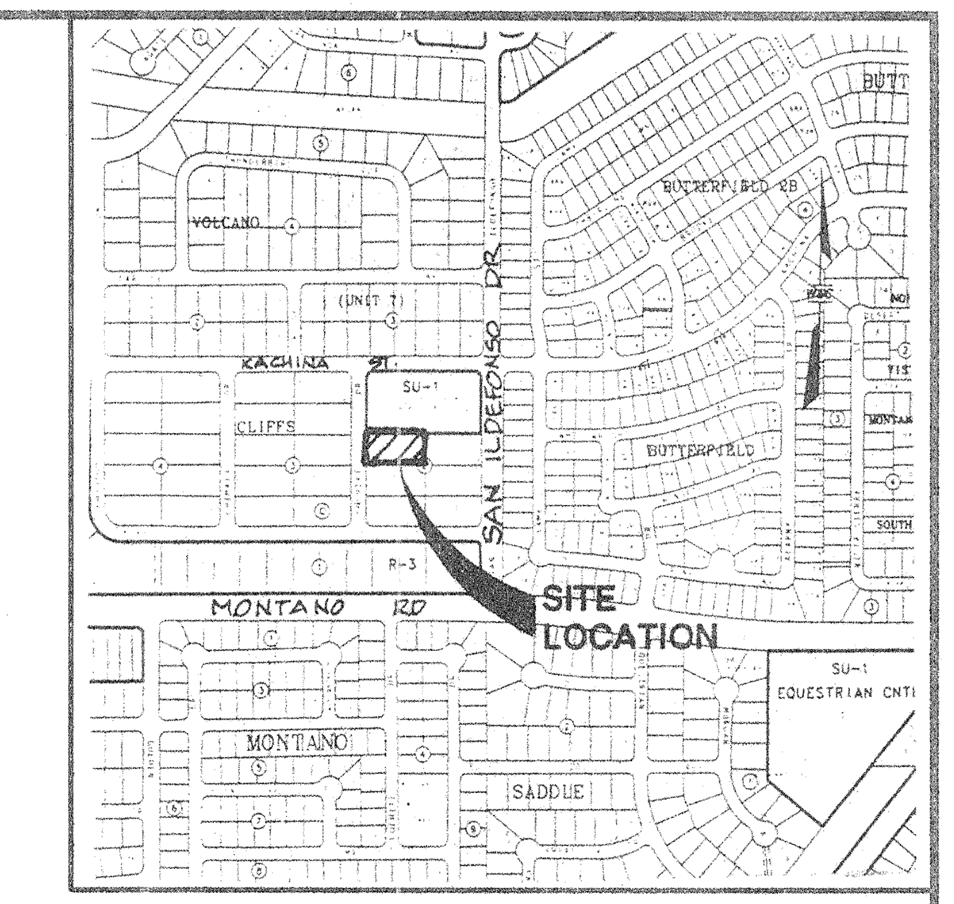
LEGEND

- EXISTING INTERMEDIATE CONTOUR
- 5135 — EXISTING INDEX CONTOUR
- 34 — PROPOSED INTERMEDIATE CONTOUR
- 5034 — PROPOSED INDEX CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- BASIN (B) — BASIN DESIGNATION
- BASIN BOUNDARY
- EXISTING FLOWLINE
- PROPOSED FLOWLINE
- AS BUILT ELEVATIONS

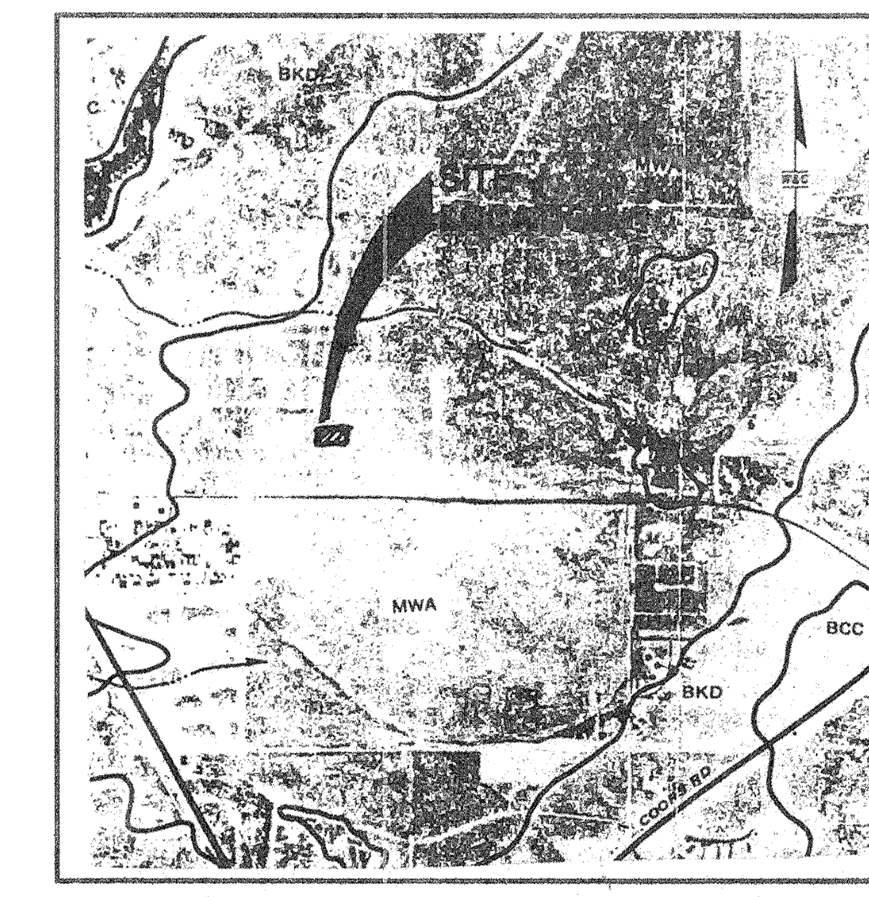
GRAPHIC SCALE



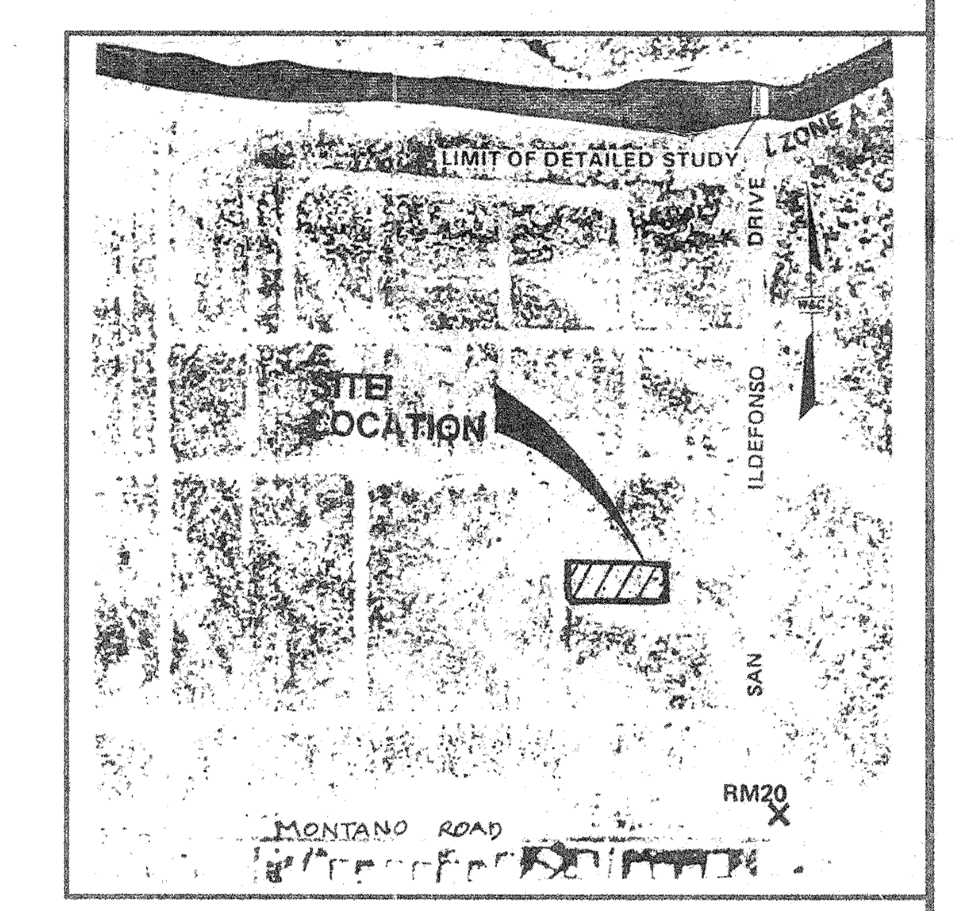
(IN FEET)
1 inch = 20 ft.



LOCATION MAP
ZONE ATLAS MAP NO. E-11



SOILS MAP
REFERENCE: SCS BERNALILLO COUNTY SOIL SURVEY SHEET NO. 20



FLOOD INSURANCE MAP
REFERENCE: FLOOD INSURANCE STUDY PANEL 14

LEGAL DESCRIPTION

LOT 8 BLOCK 2 UNIT 3 VOLCANO CLIFFS SUBDIVISION

BENCH MARK

A CHISELED SQUARE ' ' ON TOP OF CURB AT ESE CURB RETURN OF THE INTERSECTION OF MONTANO RD. AND EQUESTRIAN DR.
ELEVATION = 5120.02 (ACS)

ENGINEER'S CERTIFICATION

I, DANIEL S. AGUIRRE, DO HEREBY CERTIFY THAT THE AS-BUILT INFORMATION HEREON IS IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED DRAINAGE PLAN.

6-25-96

APPROVED FOR ROUGH GRADING ±1'
COA 3-15-95 DATE

LDS CHURCH SITE

GRADING AND DRAINAGE PLAN

DESIGN	DRAWN		DATE
K.I.S.	K.I.S.	WILSON & COMPANY 4775 INDIAN SCHOOL ROAD N.E. SUTIE 200 ALBUQUERQUE, NEW MEXICO 87110 (505) 254-4000	FEBRUARY 1995
2-9-95			FILE NO. 95404
			SHEET NO. 1 OF 1

JUL - 2 1996