



# ***City of Albuquerque***

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

May 28, 1999

Nancy Musinko, P.E.  
Wilson & Company  
4775 Indian School Road, NE - Suite 200  
Albuquerque, NM 87110

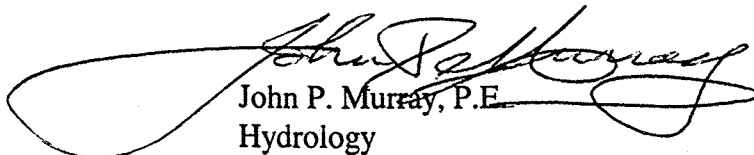
***RE: LOT 9, BLOCK 26, THE KNOWLS OF PARADISE HILLS - SPARTAN SITE -  
(B13-D17). ENGINEER'S CERTIFICATION FOR CERTIFICATE OF  
OCCUPANCY APPROVAL. ENGINEER'S STAMP DATED MAY 21, 1999.***

Dear Ms. Musinski:

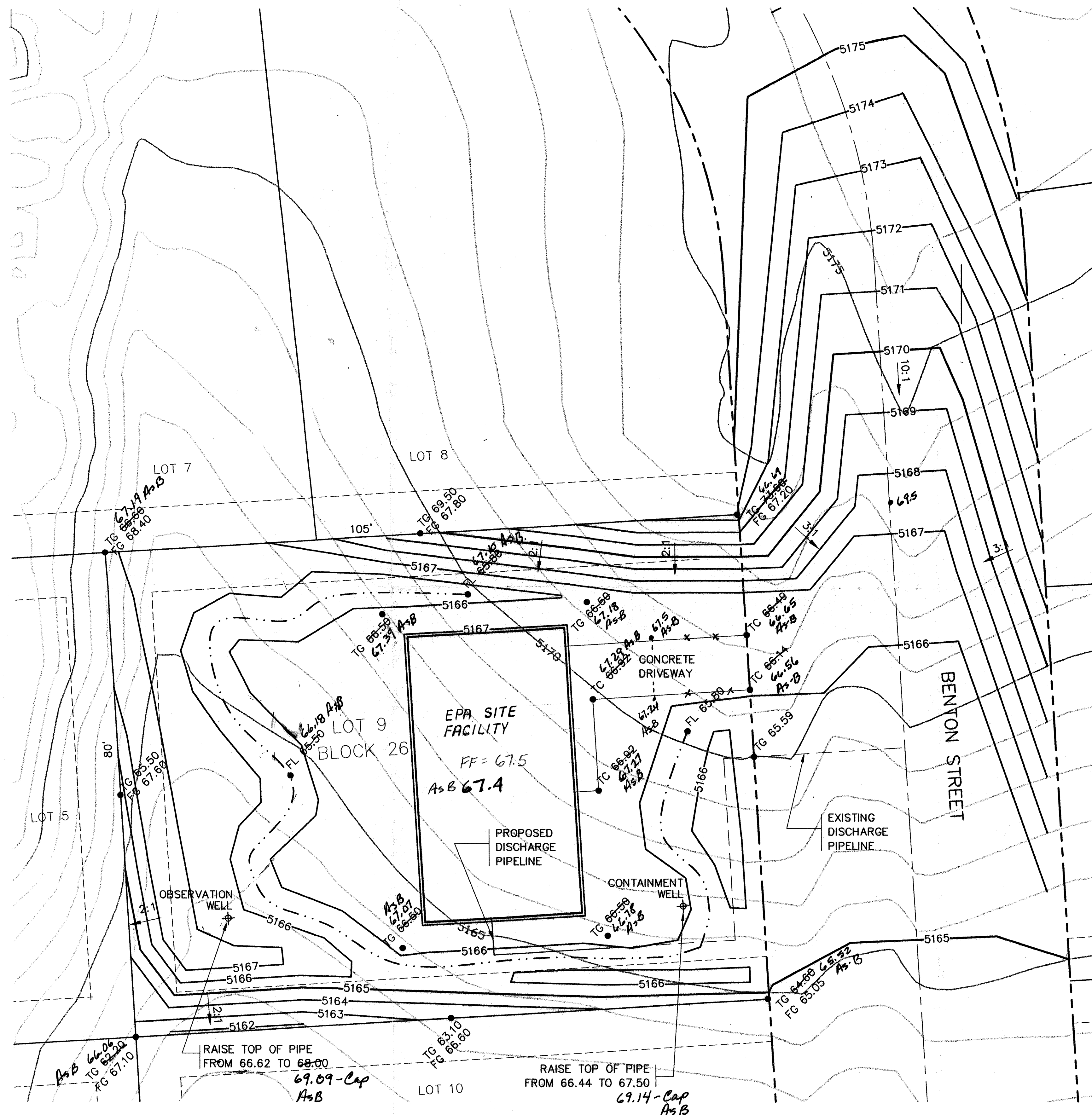
Based on the information provided on your May 21, 1999 submittal, the Engineer's Certification is accepted for Certificate of Occupancy.

If I can be of further assistance, please feel free to contact me at 924-3984.

Sincerely,

  
John P. Murray, P.E.  
Hydrology

c: ✓  
File



#### NOTES:

1. GRADING & DRAINAGE OF THE BENTON STREET ROADWAY AS SHOWN IS TEMPORARY AND HAS BEEN COORDINATED WITH THE DESIGN OF SAD SS6. THE FINAL GRADING OF THE ROADWAY WILL BE COMPLETED WITH SAD 226.
2. LOT 9 WILL BE GRADED TO TIE TO THE EXISTING GROUND ELEVATIONS OF THE ADJACENT LOTS AT MAXIMUM STEEPNESS OF 2:1. SOIL STABILIZATION SHALL BE USED ON SLOPES GREATER THAN 3:1.
3. WHEN SAD 226 IS CONSTRUCTED, THE 2:1 TIE SLOPES WILL BE FLATTENED AND THE ADJACENT LOTS WILL BE GRADED TO MATCH LOT 9.

#### DRAINAGE REPORT

The drainage was analyzed using the City of Albuquerque Development Process Manual, Section 22.2 Hydrology. The design storm is the 100-year 6-hour storm. The basin parameters, peak flow, and volumetric runoff are summarized below in Table 1.

##### Existing Conditions

Under existing conditions, there are two drainage basins: Lot 9 and a 0.30-acre off-site basin. The off-site basin consists of Lot 8 directly north of Lot 9, a portion of Lot 5 to the west, and a portion of Lot 7 to the northwest. Less than 0.5 cfs is discharged to the site from the off-site drainage basin.

Lot 9 has little vegetation and has been disturbed due to access graded to the two Spartan Technology wells (a monitoring well and containment well). Benton Street has been graded to provide access to the site.

##### Developed Conditions

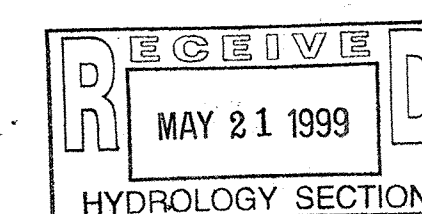
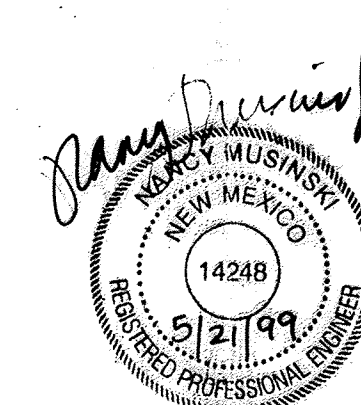
Under developed conditions, Lot 9 will contain an enclosed pump house with a paved driveway access and entrance sidewalk. The landscaping will be native vegetation. Lot 9 will be graded so that the center of the lot is higher than Benton Street. The on-site runoff for Lot 9 will be collected around the pump house perimeter in a swale, which will provide water for the native landscaping.

SAD 226, which is currently in design, will be constructed within the next few years. With SAD 226, pavement and curb and gutter will be built, and water and sewer mains will be installed in Benton Street. Runoff from the lots along Benton Street will be free discharge to Benton Street, flow south, and be intercepted by downstream storm drain inlets that will be built with SAD 226.

Table 1. Hydrology Summary								
BASIN	BASIN AREA (ac)	HYD ZONE	"A" LAND (ac)	"B" LAND (ac)	"C" LAND (ac)	"D" LAND (ac)	VOL (ac-ft)	Q100 (cfs)
EXISTING								
Lot 9	0.19	1.00	0.05	0.00	0.14	0.00	0.014	0.48
Offsite	0.30	1.00	0.26	0.00	0.04	0.00	0.013	0.44
DEVELOPED								
Lot 9	0.19	1.00	0.00	0.00	0.16	0.03	0.019	0.61
Offsite	No off-site flows will discharge to the site under fully developed conditions							

#### ENGINEER'S CERTIFICATION

I, **NANCY MUSINSKI** DO HEREBY CERTIFY THAT THIS SITE IS GRADED AS HEREON AND IS IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED DRAINAGE PLAN.



#### LEGAL DESCRIPTION

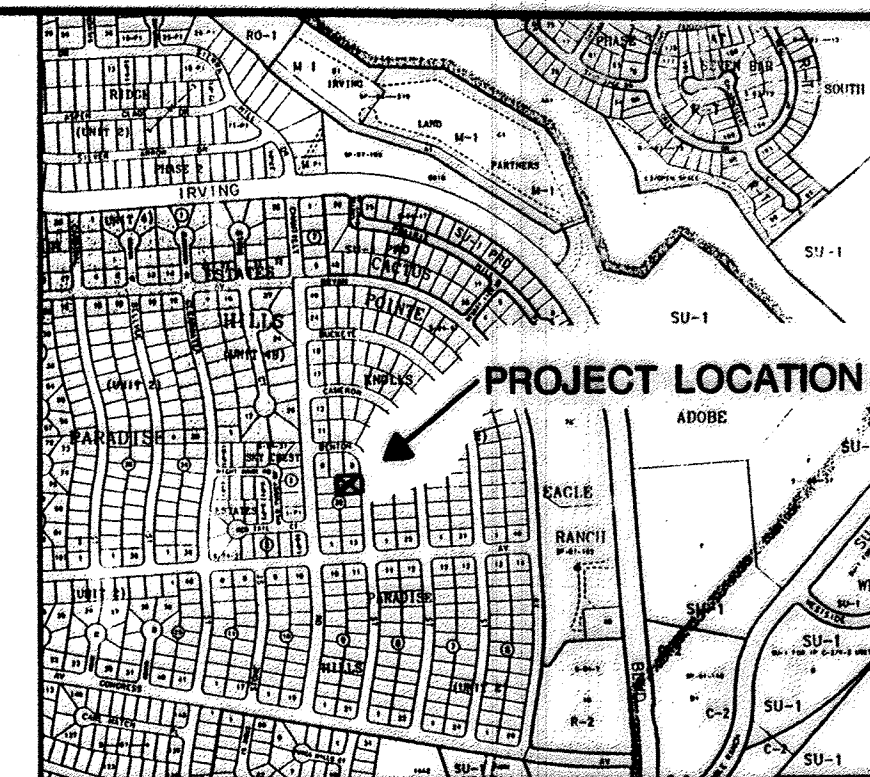
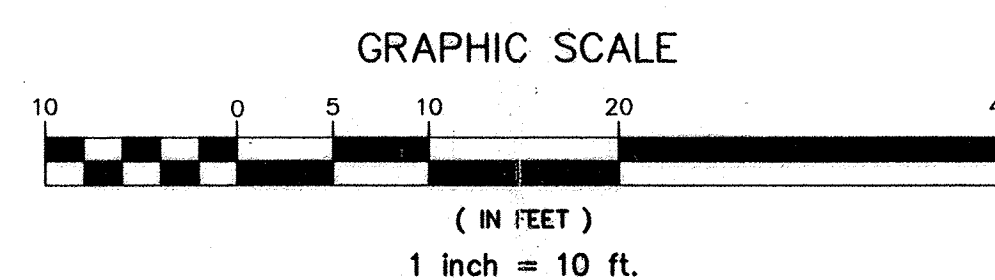
LOT 9 BLOCK 26, THE KNOLLS OF PARADISE HILLS

#### BENCH MARK

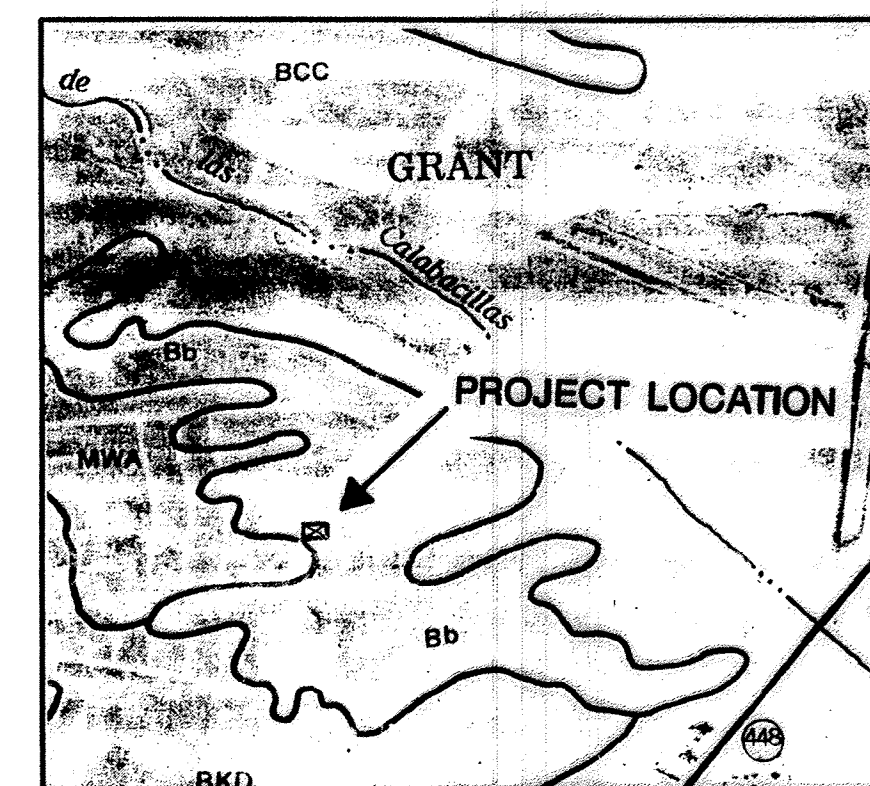
A 3 1/4" ALUMINUM CAP STAMPED "ACS-4-B13, 1986" SET IN A PIPE PROJECTING 0.1 FEET ABOVE THE GROUND, LOCATED APPROXIMATELY 205 FT SOUTH OF THE CENTERLINE OF ARROWHEAD AVE AND 100 FT WEST OF THE CENTERLINE OF BRYAN ST. ELEV 5169.511 (SLD 1929).

#### LEGEND

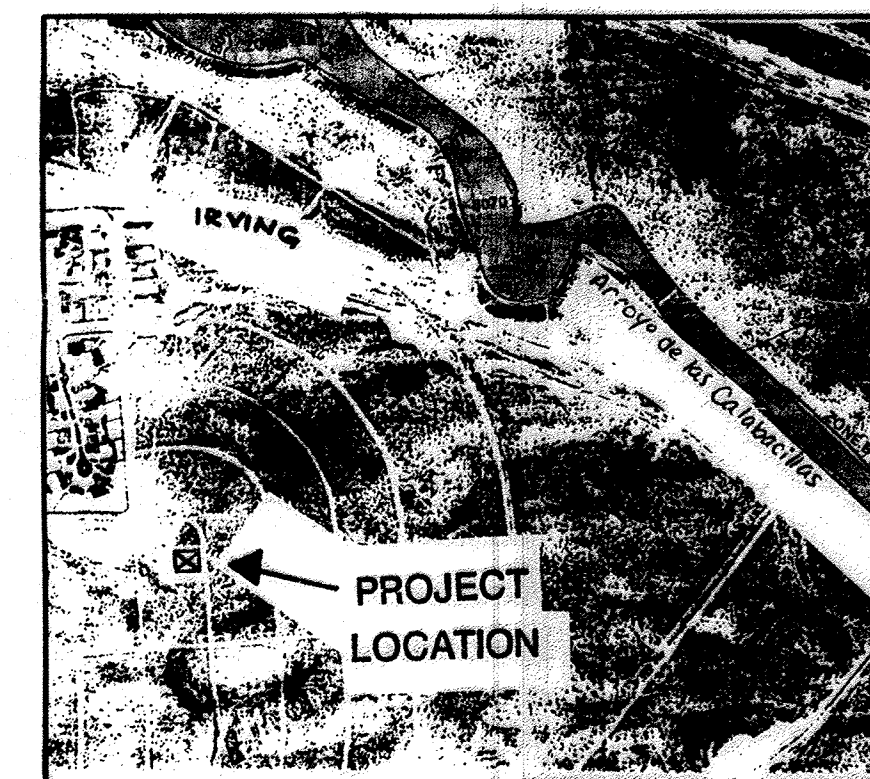
- 5170— EXISTING INDEX CONTOUR
- 5170— EXISTING INTERMEDIATE CONTOUR
- 5170— PROPOSED INDEX CONTOUR
- 5170— PROPOSED INTERMEDIATE CONTOUR
- — — — — PROPERTY LINE
- — — — — R.O.W. LINE
- — — — — EASEMENT LINE
- 69.5 PROPOSED SPOT ELEVATION
- TG = TOP OF GROUND
- FG = FUTURE GRADE (SAD 226)
- TC = TOP OF CONCRETE
- FL = FLOW LINE



LOCATION MAP  
ZONE ATLAS MAP NO. B-13



SOILS MAP  
REFERENCE: SCS BERNALILLO COUNTY SOIL SURVEY SHEET NO. 10



FLOOD INSURANCE MAP  
REFERENCE: FLOOD INSURANCE STUDY PANEL 2

**WILSON & COMPANY**

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



DATE  
JAN 1999  
FILE NO.  
99001  
DESIGN  
NM  
DRAWN  
NM

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP  
THE KNOLLS OF PARADISE HILLS, UNIT 2  
LOT 9, BLOCK 26

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
City Project No.	Zone Map No.	Sheet	Of	
XXXX.XX	B-13	1	1	