CITY OF ALBUQUERQUE

RICENTEN

November 6, 2006

Bernard R. Freeman, P.E. BRF Engineering 7426 Riverton Drive NW Albuquerque, NM 87120

Re: Addition to 8361 Modesto NE, Engineer's Stamp dated 10-19-06

Lot 31 Block 17 Tract 1 Unit 3 of North Albuquerque Acres (B20/D16)

Dear Mr. Freeman,

Based upon the information provided in your submitfal received on October 18, 2006, the above referenced plan is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

If you have any questions or need additional information, feel free to contact me at 924-3990.

P.O. Box 1293

Sincerely,

Albuquerque

Jeremy Hoover, P.E. Senior Engineer

New Mexico 87/03

Hydrology Section

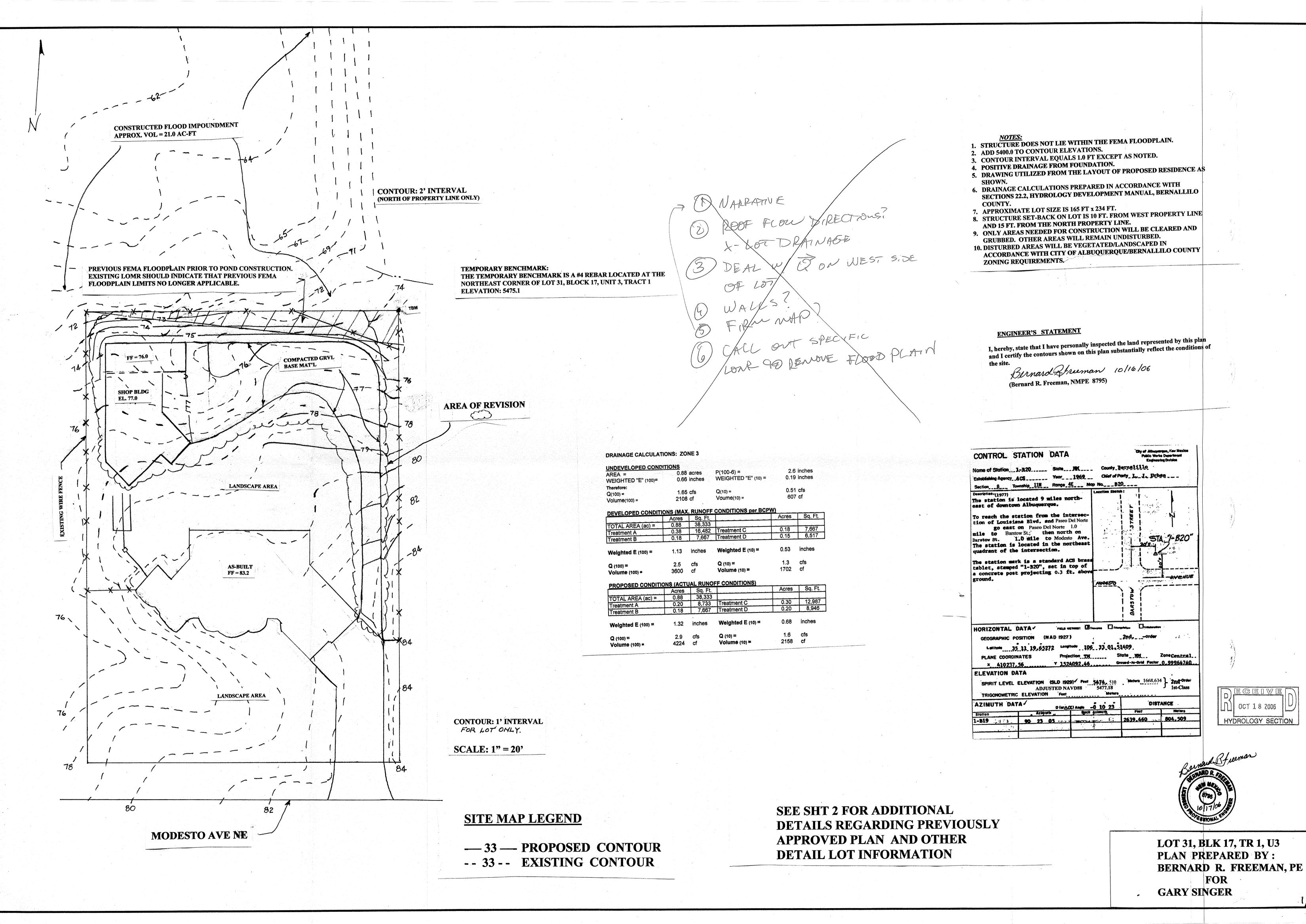
Development and Building Services

www.cabq.gov

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(B20/D16)

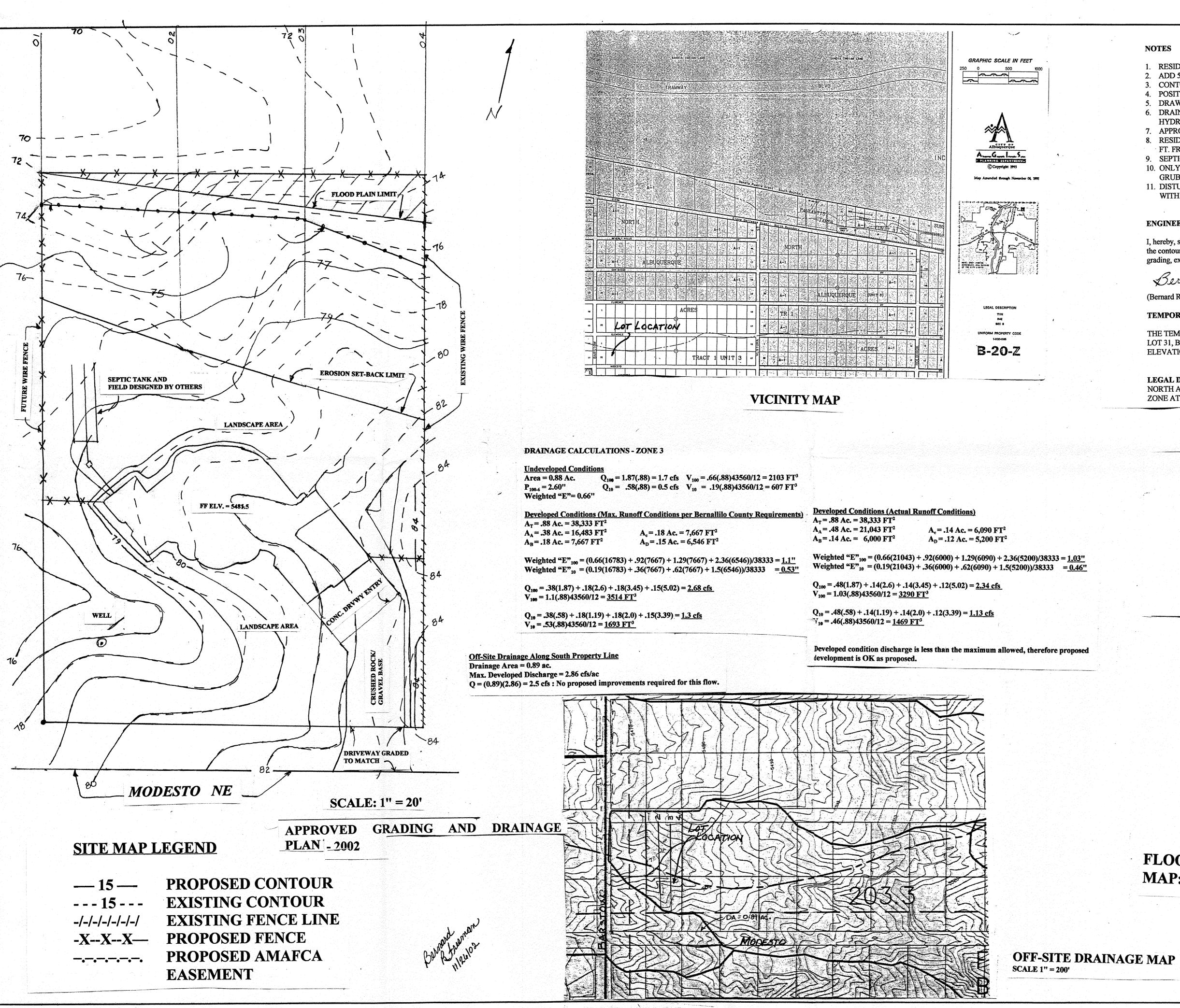


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HYDROLOGY SECTION

FOR



RESIDENCE DOES NOT LIE WITHIN THE FEMA FLOOD BOUNDARY.

2. ADD 5400.0 TO CONTOUR ELEVATIONS.

3. CONTOUR INTERVAL EQUALS 1.0 FOOT.

4. POSITIVE DRAINAGE FROM FOUNDATION. 5. DRAWING UTILIZED FOR THE LAYOUT OF PROPOSED RESIDENCE AS SHOWN.

6. DRAINAGE CALCULATIONS PREPARED IN ACCORDANCE WITH SECTIONS 22.2,

HYDROLOGY, DEVELOPMENT PROCESS MANUAL, BERNALLILO COUNTY. 7. APPROXIMATE LOT SIZE IS 165 FT. x 234 FT.

8. RESIDENCE SET BACK ON LOT IS 52 FT. FROM SOUTH PROPERTY LINE AND 25 FT. FROM THE EAST PROPERTY LINE.

9. SEPTIC TANK/LEACH FIELD TO BE DESIGNED AND INSTALLED BY OTHERS. 10. ONLY AREAS NEEDED FOR CONSTRUCTION WILL BE CLEARED AND

GRUBBED. OTHER AREAS WILL REMAIN UNDISTURBED.

11. DISTURBED AREAS WILL BE REVEGETATED/LANDSCAPED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE ZONING REQUIREMENTS.

ENGINEER'S STATEMENT

I, hereby, state that I have personally inspected the land represented by this plan and I certify that the contours shown on this plan substantially reflect the conditions of the site and that no grading, excavation, or filling has occurred since this plan was prepared.

Bernard Rfreeman 11/25/02

(Bernard R. Freeman, NMPE 8795)

TEMPORARY BENCHMARK

THE TEMPORARY BENCHMARK IS #4 REBAR LOCATED AT THE SW CORNER OF LOT 31, BLOCK 17, UNIT 3 AND TRACT 1 **ELEVATION = 5478.5**

NORTH ALBUQUERQUE ACRES, LOT 31, BLOCK 17, UNIT 3, TRACT 1 ZONE ATLAS B-20-Z

AMAFCA EASEMENT:

The 100 yr. runoff amount was pre-determined from the North Albuquerque Acres and Sandia Heights Drainage Study: Flood Prone Maps dated June 1999 and prepared by RTI Associates. Per RTI, the discharge at the east property line of Lot 31 is calculated to be 793 cfs. The Energy Grade Line (EGL) was determined using COE HEC-RAS2 (see attachment for input and output) software and is designated on the map.

EROSION SET BACK DISTANCE FROM BANK $Q_D = 0.2(793) = 158.6 \text{ cfs}$ $W_D = 4.6(158.6)^{0.4} = 35^{\circ}$

 $S_c = 0.037(23)^{-0.133} = 0.01886$; S = 0.02667; WHEN $S > S_c$. THEN <u>Max. Lateral Distance = $11.5(158.6)^{0.4} + 0.5(35) = 105.0'$ </u> (NOTE: Lateral distance is measure from channel centerline as shown on off-site drainage map. This erosion set-back distance does not impact this residence.)

The proposed AMAFCA Easement is the EGL and is shown on the drawing.

10 11 12 13 14 15 16 1 2 3 4 5 6 7 8 9 10 11 12 1 30 29 28 27 26 25 24 23 22 21 2 FAGIFROCK AV 6 8 8 11 T 14 T 1 2 3 4 5 6 7 8 9 10 11 12 1

FLOOD PLAIN MAP: ABQ GIS PLAT

> LOT 31 BLK 17 TR 1 U 3 PLAN PREPARED BY: BERNARD R. FREEMAN, PE **FOR** DAN & CHERYL SHELL