

H-23-Z VICINITY MAP

EROSION CONTROL MEASURES:

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MANAGEMENT OF STORM RUNOFF DURING CONSTRUCTION; HE SHALL ENSURE THAT THE FOLLOWING MEASURES ARE

- 1) ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY CONSTRUCTION OF BERMS, DIKES, SWALES, PONDS, AND OTHER TEMPORARY GRADING AS REQUIRED TO PREVENT STORM RUNOFF FROM LEAVING THE SUBJECT SITE AND ENTERING ADJACENT PROPERTIES
- 2) ADJACENT PUBLIC RIGHT-OF-WAYS SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUNOFF FROM THE SUBJECT SITE. NO SEDIMENT BEARING WATER SHALL BE PERMITTED TO ENTER PUBLIC STREET RIGHT-OF-WAYS.
- 3) THE CONTRACTOR SHALL IMMEDIATELY AND THOROUGHLY REMOVE ANY AND ALL SEDIMENT FROM PUBLIC STREETS THAT HAS BEEN ERODED. COM THE SUBJECT SITE AND DEPOSITED THEREON.

CONSTRUCTION NOTES:

- 1) TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MIUST CONTACT LINE LOCATING SERVICE AT 260-1990 FOR THE ACTUAL FIBLD LOCATION OF THE EXISTING SURFACE OF SUB-SURFACE UTILITIES.
- 2) PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION(S) OF ALL POTENTIAL OBSTRUCTIONS; SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF
- 3) ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- 4) ALL CONSTRUCTION WITHIN PUBLIC STREET RIGHT-OF-WAY(S) SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CIT ALBUQUERQUE/BERNALILLO COUNTY STANDARDS AND PROCEDURES.

TOP OF CURB ELEVATION = 7C = 74.22 CURB FLOWLINE ELEVATION = /E = 73.93

EXISTING SPOT ELEVATION = -- 735 EXISTING CONTOUR ELEVATION = ____ #.0 - - - -PROPOSED SPOT ELEVATION = 76.25 PROPOSED CONTOUR ELEVATION = 74.0 -

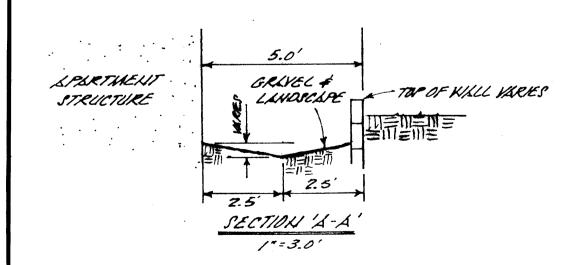
PROPOSED OR EXISTING CONCRETE SURFACE = EXISTING FENCE LINE =

LEGAL DESCRIPTION:

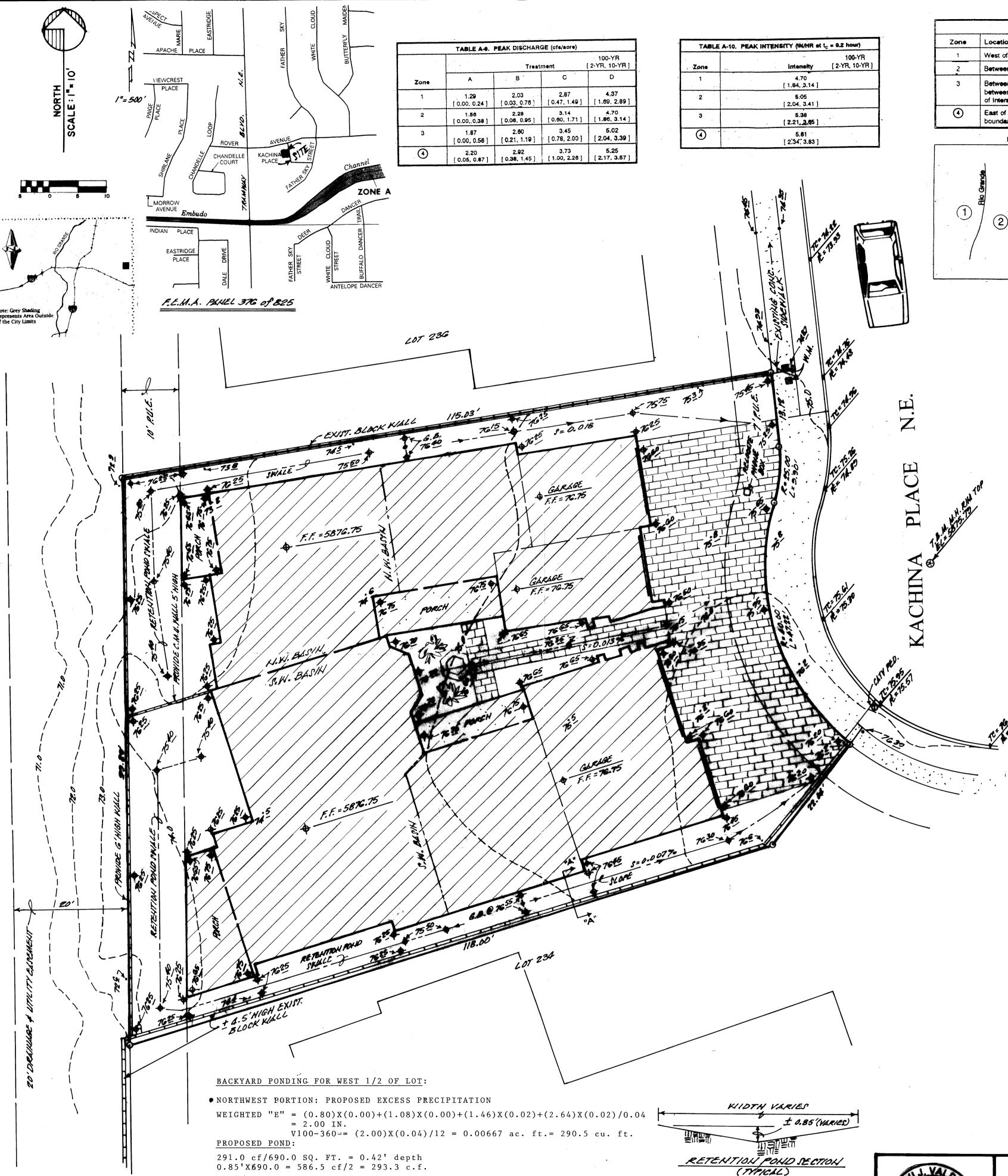
LOT 235, KACHINA HILLS, UNIT 1 ALBUUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

BENCH MARK REFERENCE:

A.C.S. STATION "2-H23", ELEVATION = 5853.8175 T.B.M. AS SHOWN ON PLAN HEREON.



THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR
UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF
THE WORK IN ADVANCE OF AND DURING EXCAVATION
WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR
ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO
LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO TH LOCATION OF THESE LINES AND FACILITIES.



• SOUTHWEST PORTION: PROPOSED EXCESS PRECIPITATION

 \cdot 472.6 cf/1,035.0 SQ. FT.= 0.45' depth

0.92'X1,035.0 = 952.2 cf/2 = 476.1 c.f.

PROPOSED POND:

WEIGHTED "E" = (0.80)X(0.00)+(1.08)X(0.00)+(1.46)X(0.02)+(2.64)X(0.04)/0.06

V100-360 = (2.17)X(0.06)/12 = 0.01085 ac. ft.= 472.6 cu. ft.

TABLE A-1. PRECIPITATION ZONES Zone Location West of the Rio Grande Between the Rio Grande and San Mateo Between San Mateo and Eubank, North of Interstate 40; and between San Mateo and the East boundary of Range 4 East, South East of Eubank, North of Interstate 40; and East of the East boundary of Range 4 East, South of Interstate 40

FIGURE A-1

watershed extends across a zone boundary. use the zone which contains the largest portion of the

DPM SECTION 22.2 - HYDROLOGY January, 1993

TABLE A-4. LAND TREATMENTS reatment Land Condition Soil uncompacted by human activity with 0 to 10 percent slopes. Native grasses, weeds and shrubs in typical densities with minimal disturbance to grading, groundcover and infiltration capacity. Croplands, Unlined arroyos. Irrigated lawns, parks and golf courses with 0 to 10 percent slopes. Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes greater than 10 percent and less than 20 percent. Soil compacted by human activity. Minimal vegetation. Unpaved parking, roads, trails. Most vacant lots. Gravel or rock on plastic (desert landscaping). Irrigated lawns and parks with slopes greater than 10 percent. Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes at 20 percent or greater. Native grass, weed and shrub areas with clay or clay loam soils and other soils of very low permeability as classified by SCS Hydrologic Soil Group D. Impervious areas, pavement and roofs.

Most watersheds contain a mix of land treatments. To determine proportional treatments, measure respective subareas. In lieu of specific measurement for treatment Q, the areal percentages in TABLE A-5 may be employed.

Drainage Comments:

As shown on the Vicinity Map hereon, the subject site is located southeast of the intersection of Tramway Blvd. N.E. and Rover Avenue N.E., in the City of Albuquerque, New Mexico, (City Zone Atlas Map "H-23-2").

The subject site is presently an undeveloped vacant lot; the proposed plan shown hereon, is to construct a 3-plex residential unit with associated improvements thereon.

The subject site 1.) does not lie within a designated floodplan, nor does it have downstream flooding conditions (RE: F.E.M.A. Floodway Panel 376 of 825), 2.) does not accept offsite flows from adjacent properties, 3.) does not contribute to offsite flows of adjacent properties, 4.) does not lie adjacent to a natural or artificial water course, 5.) is allowed free discharge of developed flow into the adjacent street right of ways, (these flows do not and will not have an adverse impact to downstream properties).

Drainage Calculations:

Per Section 22.2, Hydrology of the Development Process Manual, Volume 2, Design Criteria for the City of Albuquerque, Bernalillo County, New Mexico.

PEAK DISCHARGE

PROPOSED CONDITIONS:

Site Area: 0.24 acres Precipitation Zone: Four (4), Table A-1 Peak Intensity: In./Hr. at Tc = Twelve (12) Minutes, 100-Yr. = 5.61 "Land Treatment Method" for calculation of "Qp", Tables A-8 & A-9. "Land Treatment Factors", Table A-4.

PROJECT AREA= 0.24 ac.

EXISTING CONDITIONS:

ZONE: FOUR (4) PRECIPITATION: 1440 = 3.65 in10 day = 5.95 in

EXCESS PRECIPITATION:

TREATMENT A	0.80 in.	2.20 cfs/ac
TREATMENT B	1.08 in.	2.92 cfs/ac
TREATMENT C	1.46 in.	3.73 cfs/ac
TREATMÉNT D	2.64 in.	5.25 cfs/ac

	AKEA	AKEA
TREATMENT A	0.24 ac.	0.00 ac.
TREATMENT B	0.00 ac.	0.00 ac.
TREATMENT C	0.00 ac.	0.07 ac.
TREATMENT D	0.00 ac.	0.17 ac.

V100-360= (0.80)x(0.24)/12 = 0.0160 ac-ft = 697.0 cf

EXISTING EXCESS PRECIPITATION:

Weighted E= (0.80)x(0.24)+(1.08)x(0.00)+(1.46)x(0.00)+(2.64)x(0.00)/0.24

EXISTING PEAK DISCHARGE:

Q100= (2.20)x(0.24)+(2.92)x(0.00)+(3.73)x(0.00)+(5.25)x(0.00) = 0.53 cfs

PROPOSED EXCESS PRECIPITATION:

Weighted E= (0.80)x(0.00)+(1.08)x(0.00)+(1.46)x(0.07)+(2.64)x(0.17)/0.24

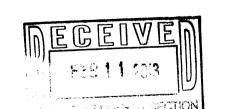
V100-360= (2.30)x(0.24)/12.0 = 0.04600 ac-ft = 2,003.8 cf

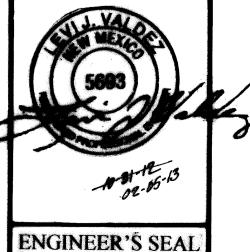
V100-1440= (0.05)+(0.17)x(3.65-2.90)/12 = 0.06063 ac-ft = 2,641.0 cf

V100-10day= (0.05)+(0.17)x(5.95-2.90)/12 = 0.09321 ac-ft = 4,060.2 cf

PROPOSED PEAK DISCHARGE:

Q100= (2.20)x(0.00)+(2.92)x(0.00)+(3.73)x(0.07)+(5.25)x(0.17) = 1.15 cfs





NOT TO SCALE

GRADING AND DRAINAGE PLAN

A PROPOSED PLAN **FOR** VIGIL 3 DWELLING UNITS

(12904 KACHINA PLACE N.E.) ALBUQUERQUE, NEW MEXICO SEPTEMBER, 2012

