

Martin J. Chávez, Mayor

November 7,1997

Jake Bordenave Bordenave Designs P.O. Box 91194 Albuquerque, New Mexico 87199

RE: DRAINAGE PLAN FOR THE NEW MEXICO ZOOLOGICAL SOCIETY (K13-D71) ENGINEER'S STAMP DATED 10/8/97

Dear Mr. Bordenave:

Based on the information provided on your October 15,1997 submittal, the above referenced site is approved for Building Permit.

Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

Also, Engineer Certification per the DPM checklist will be required prior to the release of the Certificate of Occupancy.

If I can be of further assistance, please feel free to contact me at 924-3986.

C: Andrew Garcia File

Sincerely

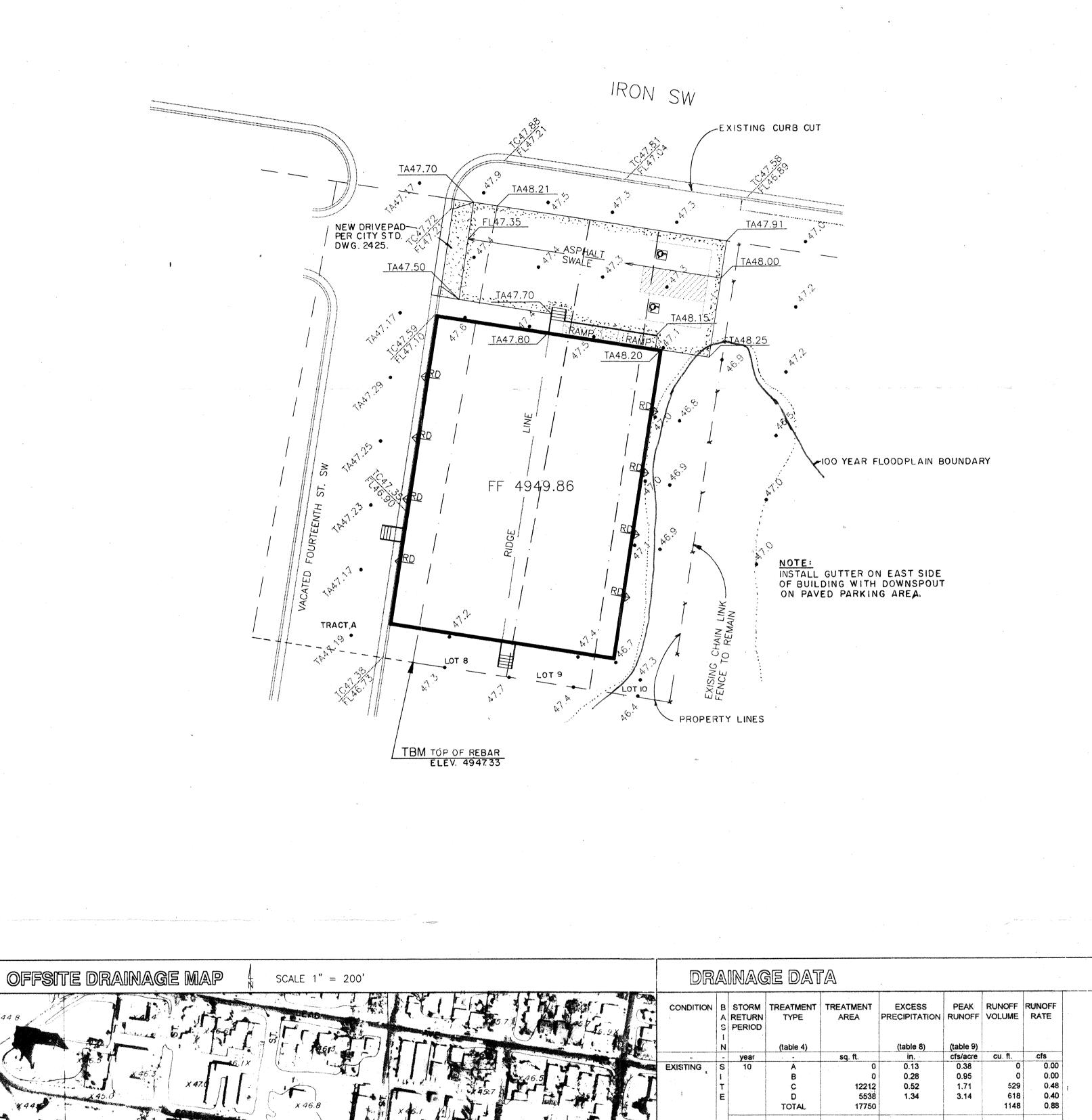
Bernie J. Montoya CE

Associate Engineer



DRAINAGE INFORMATION SHEET

DRAINAGE INFORM	ATION SHEET DRNG. FILE #: 14-13 DM
PROJECT DATA:	12 D 9/
TITLE: NEW MEXICO ZOOLOGICAL SOCIETY	DRNG. FILE #: 12-17 W
DRB #: EPC #:	- WORK ORDER #: -
LEGAL DESCRIPTION: LOTS 8-10, BLOCK	52, RAYNOLDS ADDITION
TRACT 'A', LANDS CITY ADDRESS: IRON AVE. SW	OF YOUTH ACTIVITIES COUNCIL
ENGINEERING FIRM: BORDENAVE DESIGNS	CONTACT: J. BORDENAVE
ADDRESS:P.O. BOX 91194, 87199	PHONE: 823-1344
OWNER: NM ZOOLOGICAL SOCIETY	CONTACT:
ADDRESS:	PHONE: 764-6280
ARCHITECT:	CONTACT: SEEIVE
ADDRESS:	PHONE:
SURVEYOR:	CONTACT: 0CT 1 5 1997
ADDRESS:	PHONE: HYDROLOGY SECTION
CONTRACTOR: RON ROMERO, INC.	CONTACT: T. WILD
ADDRESS: 511 MARBLE NW, 87102	PHONE: 242-5760
TYPE OF SUBMITTAL:	TYPE OF APPROVAL SOUGHT:
CONCEPT GRADING & DRAINAGE PLAN	SECTOR PLAN
_X GRADING PLAN	SKETCH PLAT
_X DRAINAGE PLAN	PRELIMINARY PLAT
DRAINAGE REPORT	FINAL PLAT
EROSION CONTROL PLAN	SITE DEV. PLAN FOR SUBD.
ENGINEER'S CERTIFICATION	SITE DEV. PLAN FOR PERMIT
OTHER:	GRADING PERMIT
	PAVING PERMIT
PRE-DESIGN MEETING:	FOUNDATION PERMIT
YES	X_ BUILDING PERMIT
NO	CERTIFICATE OF OCCUPANCY
COPY OF MINUTES PROVIDED	S.A.D. DRAINAGE REPORT
	DRAINAGE REQUIREMENTS
	OTHER:
DATE SUBMITTED: 10/12/97	
BY: Sen Hunden	



LEGAL DESCRIPTION

LOTS 8 THRU 10, BLOCK 52, RAYNOLDS ADDITION TRACT A, LANDS OF YOUTH ACTIVITIES COUNCIL

PERMANENT BENCHMARK

ACS 6-K13

ELEVATION 4956.95

GRADING CERTIFICATION

I, Jean J. Bordenave, New Mexico Professional Engineer and Land Surveyor No. 5110, hereby certify that I have personally inspected the property shown hereon and that it appears that no grading, filling or excavation has occurred thereon since the contour map shown hereon was prepared.

Jean J. Bardenave , NM PE & PS No. 5110

GENERAL NOTES

1. THE SITE HAS BEEN GRADED IN THE PAST IS VOID OF VEGETATION EXCEPT FOR SCATTERED WEEDS AND HAS BEEN CONSIDERED LAND TREATMENT TYPE 'C' IN THE DRAINAGE CALCULATIONS. WHEN DEVELOPED A SMALL PORTION OF THE SITE WILL BECOME TYPE 'B' AND A LARGE PORTION WILL BECOME TYPE 'D'. THE 100 YEAR PEAK RUNOFF WILL INCREASE BY 0.30 CFS AND THE 100 YEAR, 6 HOUR RUNOFF VOLUME WILL INCREASE BY 725 CUBIC FEET.

2. THE PROPOSED STRUCTURE IS A MODULAR BUILDING SET ON -PIERS AND THE FINISHED FLOOR IS APPROXIMATELY TWO AND ONE-HALF FEET ABOVE THE EXISTING GROUND. ALL ONSITE DEVELOPED RUNOFF FROM IMPERVIOUS SURFACES IS DIRECTED TO THE VACATED 14th STREET. 14th STREET AND STOVER AVE. HAVE BEEN KEPT INTACT THOUGH THEY ARE NOW INCORPORATED INTO THE RIO GRANDE ZOO COMPLEX. NO OFFSITE FLOWS ENTER THE SITE.

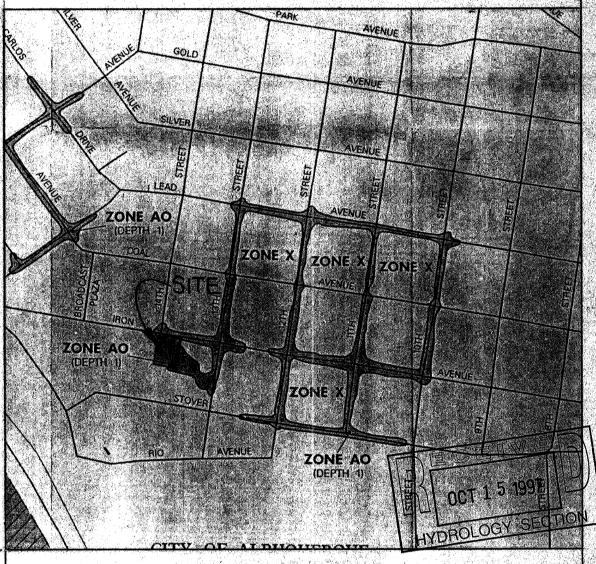
3. AS CAN BE SEEN ON THE STORM DRAIN MAP SHOWN HEREON THERE IS A COMPREHENSIVE STORM DRAIN SYSTEM IN THE AREA. A SIXTY INCH STORM DRAIN TRANSPORTING FLOWS TO THE ALCALDE PUMP STATION IS LOCATED IN IRON AVE. ADJACENT TO THE SITE. THE LINE TO THE ALCALDE PUMP STATION AND THE PUMP STATION ITSELF HAVE BEEN UPGRADED SINCE THE FLOOD PLAIN MAP WAS REVISED.

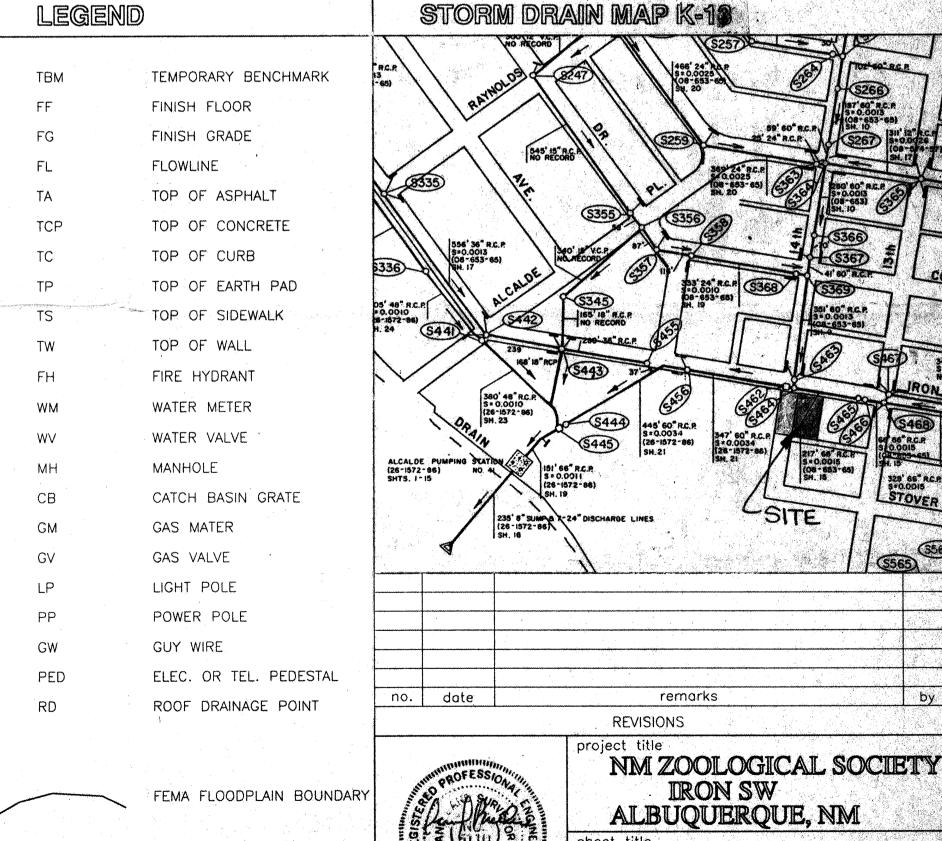
4. A PORTION OF THE SITE IS LOCATED IN A DESIGNATED FLOOD PLAIN PER FEMA FIRM PANEL NO. 33 DATED SEPTEMBER 20, 1996. NO GRADING IS PROPOSED WITHIN THE DESIGNATED FLOOD PLAIN AREA AND A PORTION OF THE SITE THAT DRAINED. TO THE FLOODED AREA HAS BEEN DIVERTED TO THE PAVED AREA AND THE 14th STREET STORM DRAIN.

5. THE EXISTING TOPOGRAPHY INFORMATION SHOWN HEREON WAS OBTAINED BY OTHERS.

VICINITY MAP NO. K-13

FEMA FIRM PANEL NO. 333





TOTAL 1682 1757 TOTAL

2.28

3.14

4.7

2661 2853

0.78

1.13

TOTAL

SCALE 1 INCH = 20 FEET

10 0 10 20

EROSION SETBACK LINE EXISTING CONTOUR PROPOSED CONTOUR EXISTING SPOT ELEVATION XX.XX

-XX.XX

PROPOSED SPOT ELEVATION RECORD SPOT ELEVATION

BORDENAVE DESIGNS

(505) 823-1344

10/06/97

GRADING & DRAINAGE PLAN

project no. 9726

sheet