

Martin J. Chávez, Mayor

Richard Stockton
Leedshill-Herkenhoff Inc.
P.O. Box 1217
Albuquerque, NM 87195

RE: GRADING PLAN FOR RHINOCEROS EXHIBIT @ THE RIO GRANDE ZOO
(K13-D34B) ENGINEER'S STAMP DATED 5/16/96.

Dear Mr. Stockton:

Based on the information provided on your May 23, 1996 submittal, the above referenced site is approved for Grading Permit.

Please be advised that after completion of construction, Engineer Certification per the D.P.M. checklist will be required.

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

Sincerely,

A handwritten signature in cursive script that reads 'Bernie J. Montoya'.

Bernie J. Montoya, CE
Engineering Associate

BJM/dl

c: Andrew Garcia
File



DRAINAGE INFORMATION SHEET

PROJECT TITLE: Rhinoceros Exhibit Drainage Plan ZONE ATLAS/DRNG.FILE #:K-13 / 1134B

DRB #:N/A EPC #:N/A WORK ORDER #:N/A

LEGAL DESCRIPTION: Section 19, Township 10N, Range 3E, Town of Atrisco Grant

CITY ADDRESS: Albuquerque Rio Grande Zoological Park

ENGINEERING FIRM: Leedhsill-Herkenhoff, Inc. CONTACT: Richard Stockton, P.E.

ADDRESS: 500 Copper Ave. N.W., P.O. Box 1217 PHONE: (505)247-0294

OWNER: City of Albuquerque - Rio Grande Zoo CONTACT: Mike Westbrook, P.E.

ADDRESS: Zoo - Graphics & Planning PHONE: (505)764-6299

ARCHITECT: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

SURVEYOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: _____ CONTACT: _____

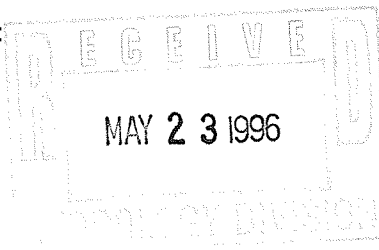
ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
- ☒ DRAINAGE PLAN
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☐ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☐ ENGINEER'S CERTIFICATION
- ☐ OTHER

PRE-DESIGN MEETINGS:

- ☐ YES
- ☒ NO
- ☐ COPY PROVIDED

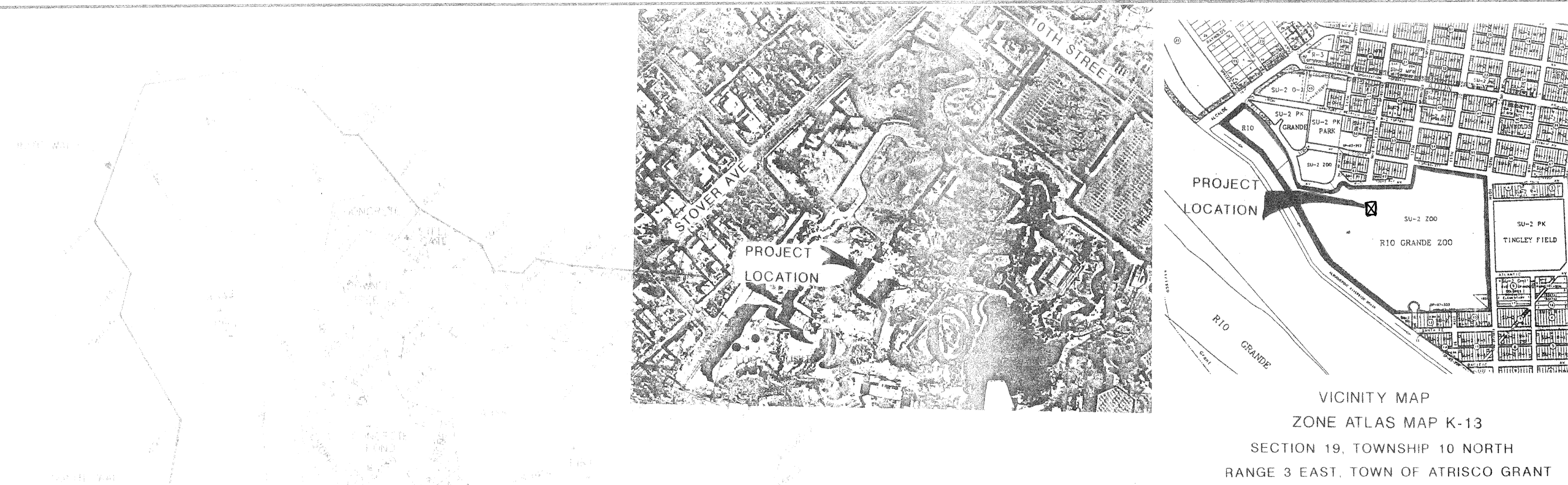


CHECK TYPE OF APPROVAL SOUGHT:

- ☐ 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
- ☐ CERTIFICATE OF OCCUPANCY APPROVAL
- ☒ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT
- ☐ S.A.D. DRAINAGE REPORT
- ☐ DRAINAGE REQUIREMENTS
- ☐ OTHER _____ (SPECIFY)

DATE SUBMITTED: May 23, 1996

BY: Leedshill-Herkenhoff, Inc. Richard Stockton



DRAINAGE PLAN HYDROLOGY

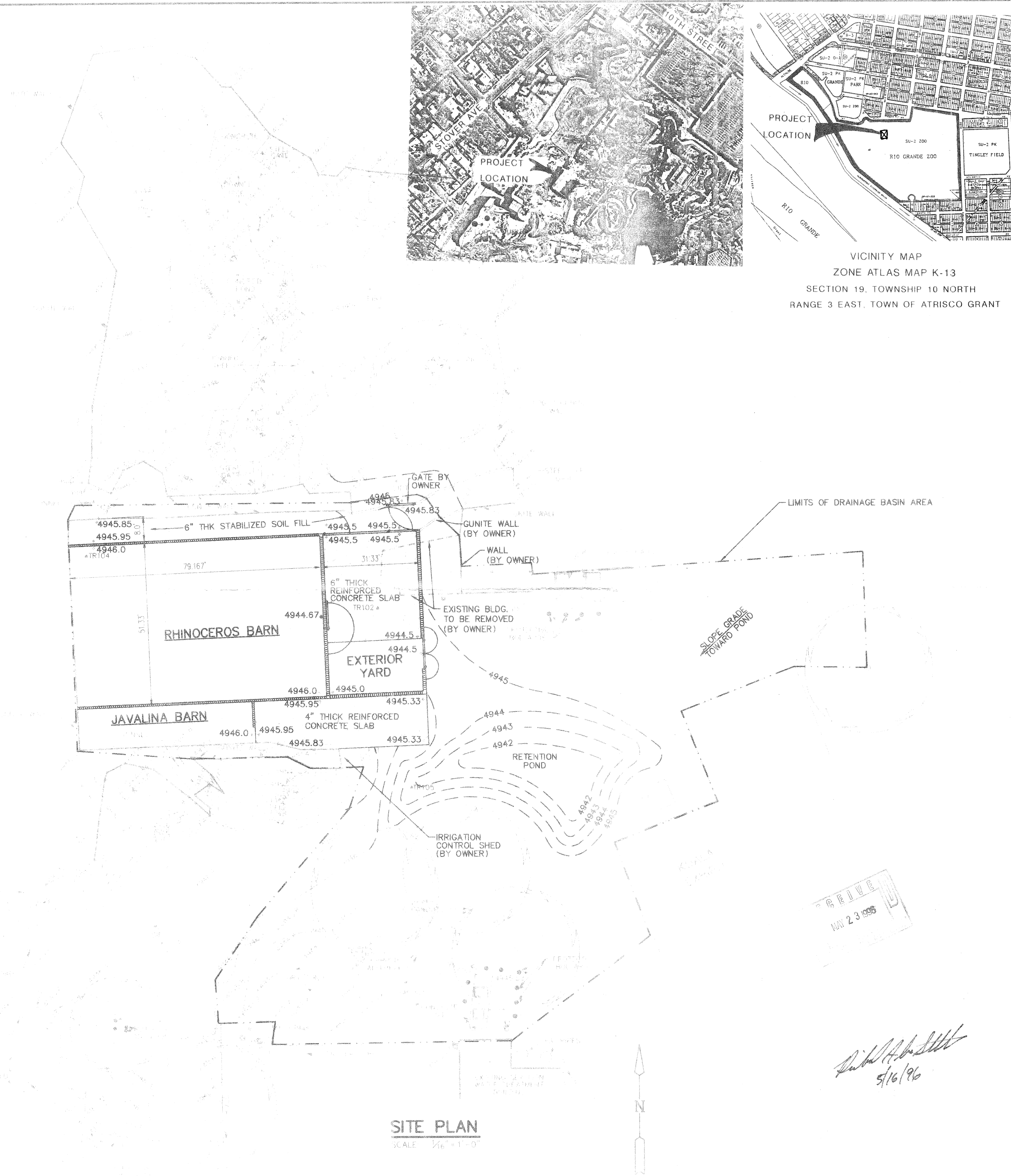
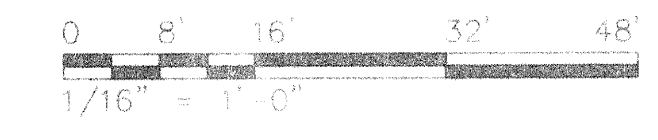
- THE FOLLOWING DATA WAS OBTAINED FROM THE RIO GRANDE ZOO MASTER DRAINAGE PLAN, MAY 1994, BY CHAVEZ-GRIEVES CONSULTING ENGINEERS, INC. AND IS INCORPORATED WITHIN:
BASIN 1033 (RHINOCEROS EXHIBIT)
AREA = 0.000750 SQ MI = (0.480 AC)
100 YEAR = 24 HOUR DESIGN STORM
RAINFALL DATA
1 HOUR = 1.93 IN
6 HOUR = 2.27 IN
24 HOUR = 2.64 IN
TIME TO PEAK = 0.133 HOUR
- EXISTING CONDITIONS:
AREA = 0.590 AC (25654 SF)
LAND TREATMENT:
%A = 12, %B = 0, %C = 82, %D = 6
V100 = 0.0510 AC-FT
- DEVELOPED CONDITIONS:
AREA = 0.590 AC (25654 SF)
LAND TREATMENT:
%A = 12, %B = 0, %C = 55, %D = 33
V100 = 0.0691 AC-FT
- AVAILABLE RETENTION:
BASIN VOLUME = 3117 CF = 0.0715 AC-FT
- DELTA RETENTION:
REQUIRED V100 = 0.0691 AC-FT
AVAILABLE V100 = 0.0715 AC-FT
 $\Delta V100 = 0.0024 AC-FT$

LEGEND

- C.O.A. PROJECT CONTROL POINT OR A.C.S. MONUMENT DO NOT DISTURB
- LARGE STONE
- ELECTRICAL PULL BOX
- BOLLARD
- PIPE
- ELECTRICAL TRANSFORMER
- IRRIGATION CONTROL BOX
- SEWER CLEANOUTS
- DRAIN INLET
- WATER VALVE
- ELECTRICAL RISER
- GAS RISER
- WATER RISER
- FIRE HYDRANT
- SPOT ELEVATION ON NATURAL GROUND (EXISTING)
- SPOT ELEVATION (NEW)
- LARGE TREE
- CONCRETE BLOCK WALL
- CHAIN LINK FENCE
- NEW CONTOUR
- LIMITS OF DRAINAGE BASIN AREA

I, RICHARD ALAN STOCKTON, REGISTERED PROFESSIONAL ENGINEER NO. 12925, HEREBY CERTIFY THAT THE HYDROLOGIC CALCULATIONS CONTAINED ON THIS DRAINAGE PLAN WERE PREPARED BY ME, OR DIRECTLY UNDER MY SUPERVISION, AND ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Richard Alan Stockton 5/16/96
REGISTERED PROFESSIONAL ENGINEER NO. 12925



SITE PLAN
SCALE: 1/4\"/>

LEEDSHILL-HERKENHOFF, INC.
500 Copper Avenue NW
P.O. Box 1217
Albuquerque, NM 87103
(505)247-0294

	DATE	APPROVED BY	TITLE	SHEET NO.
	DWN BY			
	REVISIONS			
PROJECT TITLE RHINOCEROS/PECCARY BARN				PROJECT NO.

