CITY OF ALBUQUERQUE

November 7, 2007

Shahab Biazar, P.E.
Advanced Engineering and Consulting, LLC
4416 Anaheim Avenue NE
Albuquerque, NM 87113

RE: Villas Las Mananitas Subdivision, (H-13/D050)
Engineers Certification for Release of Financial Guaranty
Engineers Stamp dated 6/6/06, W.O. # 791581
Engineers Certification dated 10/22/07

Based upon the information provided in your Engineer's Certification Submittal dated 11/06/07, the above referenced plan is adequate to satisfy the Grading and Drainage Certification for Release of Financial Guaranty.

If you have any questions, you can contact me at 924-3982.

Sincerely,

Timothy Sims
Plan Checker-Hydrology
Development and Building Services

C: Marilyn Maldonado
File
WO # 791581

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

DRAINAGE INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: VILLAS LAS MANANITAS SUBDIVISION ZONE ATLAS/DRG. FILE #: H13 / D50

DRB #: _____ EPC #: _____ WORK ORDER #: 791581

LEGAL DESCRIPTION: TRACTS 87A1B, 87A2, 87B1, 87B2, 87B3, 88, 89A, 89B1, 89B2A, & THE LANDS E. MAES TRACTS A1 & A2

CITY ADDRESS: _____

ENGINEERING FIRM: *Advanced Engineering and Consulting, LLC* CONTACT: Shahab Biazar
ADDRESS: 4416 Anaheim Ave., NE PHONE: (505) 899-5570
CITY, STATE: Albuquerque, New Mexico ZIP CODE: 87113

OWNER: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

ARCHITECT: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

SURVEYOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

CONTRACTOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

CHECK TYPE OF SUBMITTAL:

____	DRAINAGE REPORT
____	DRAINAGE PLAN 1ST SUBMITTAL, REQUIRES TCL OR EQUAL
____	CONCEPTUAL GRADING & DRAINAGE PLAN
____	GRADING PLAN
____	EROSION CONTROL PLAN
X	ENGINEER'S CERTIFICATION (HYDROLOGY)
____	CLOMR / LOMR
____	TRAFFIC CIRCULATION LAYOUT (TCL)
____	ENGINEER'S CERTIFICATION (TCL)
____	ENGINEER'S CERTIFICATION (DRB APPR. SITE PLAN)
____	OTHER

CHECK TYPE OF APPROVAL SOUGHT:

X	SIA / FINANCIAL GUARANTEE RELEASE
____	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 (PERM.)
____	CERTIFICATE OF OCCUPANCY (TEMP.)
____	GRADING PERMIT APPROVAL
____	PAVING PERMIT APPROVAL
____	WORK ORDER APPROVAL
X	APPROVAL OF AS-BUILT GRADES

RECEIVED
NOV 06 2007
HYDROLOGY SECTION

WAS A PRE-DESIGN CONFERENCE ATTENDED:

____	YES
X	NO
____	COPY PROVIDED

DATE SUBMITTED: 11/ 05/2007 BY: Shahab Biazar, P.E.

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittals may be required based on the following:

1. **Conceptual Grading and Drainage Plan:** Required for approval of Site Development Plans greater than five (5)
2. **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5)
3. **Drainage Report:** Required for subdivisions containing more than ten (10) lots or containing five (5) acres or more

ADVANCED ENGINEERING and CONSULTING, LLC

Consulting
Design
Development
Management
Inspection
Surveying

November 5, 2007

Mr. Bradley L. Bingham, P.E.
Sr. Engineer, Planing Dept.
Development and Building Services
600 Second Street NW
Albuquerque, New Mexico 87102

RE: CERTIFICATION OF GRADES AND RELEASE OF FINANCIAL GUARANTEE FOR VILLAS LAS MANANITAS SUBDIVISION (H13 / D50)

Dear Mr. Bingham:

This letter is in request of Certification of Grades and Release of Financial Guarantee for the above mentioned project. I Shahab Biazar, NMPE, of the Advanced Engineering, LLC hereby certify that this project has been graded and will drain in substantial compliance with and design intent of the approved plan dated 06/06/2006. All the pavement and storm drain structures are in place.

Please contact me if there are any questions or concerns regarding this submittal.

Sincerely yours,

Shahab Biazar, P.E.

4416 Anaheim Ave., N.E., Albuquerque, NM 87113 PH (505) 899-5570 FAX (505) 897-4996 EMAIL AECLLC@aol.com

CITY OF ALBUQUERQUE

May 18, 2006

Shahab Biazar, P.E.
Advanced Engineering & Consulting, LLC
4416 Anaheim Ave. NE
Albuquerque, NM 87113

Re: Villas Las Mananitas Subdivision, Tracts 87A1B, 87A2, 87B1, 87B2, 87B3, 88, 89A, 89B1, 89B2A & The Lands E. Maes Tracts A1 & A2
Drainage Report - Engineer's Stamp dated 4-17-06 (H13-D50)

Dear Mr. Biazar,

Based upon the information provided in your submittal dated 4-20-06, the above referenced plan is approved for Preliminary Plat and Site Development Plan for Subdivision action by the DRB. Once that board has approved the plan, please submit a mylar copy of the grading plan for my signature in order to obtain a Grading Permit.

This project requires a National Pollutant Discharge Elimination System (NPDES) permit. Refer to the attachment that is provided with this letter for details. If you have any questions please feel free to call the Municipal Development Department Hydrology section at 768-3654 (Charles Caruso).

If you have any questions, you can contact me at 924-3990.

Sincerely,

Phillip J. Lovato, E.I., C.F.M.
Engineering Associate, Hydrology,
Development and Building Services,
Planning Department

cc: Charles Caruso, DMD
file

P.O. Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

DRAINAGE INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: VILLAS LAS MANANITAS SUBDIVISION ZONE ATLAS/DRG. FILE #: H13/D50

DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: TRACTS 87A1B, 87A2, 87B1, 87B2, 87B3, 88, 89A, 89B1, 89B2A, & THE LANDS E. MAES TRACTS A1 & A2

CITY ADDRESS: _____

ENGINEERING FIRM: *Advanced Engineering and Consulting, LLC* CONTACT: Shahab Biazar

ADDRESS: 4416 Anaheim Ave., NE PHONE: (505) 899-5570

CITY, STATE: Albuquerque, New Mexico ZIP CODE: 87113

OWNER:

ADDRESS: _____ CONTACT: _____

CITY, STATE: _____ PHONE: _____

ZIP CODE: _____

ARCHITECT:

ADDRESS: _____ CONTACT: _____

CITY, STATE: _____ PHONE: _____

ZIP CODE: _____

SURVEYOR:

ADDRESS: _____ CONTACT: _____

CITY, STATE: _____ PHONE: _____

ZIP CODE: _____

CONTRACTOR:

ADDRESS: _____ CONTACT: _____

CITY, STATE: _____ PHONE: _____

ZIP CODE: _____

CHECK TYPE OF SUBMITTAL:

X DRAINAGE REPORT

_____ DRAINAGE PLAN 1ST SUBMITTAL, REQUIRES TCL OR EQUAL

_____ CONCEPTUAL GRADING & DRAINAGE PLAN

X GRADING PLAN

_____ EROSION CONTROL PLAN

_____ ENGINEER'S CERTIFICATION (HYDROLOGY)

_____ CLOMR / LOMR

_____ TRAFFIC CIRCULATION LAYOUT (TCL)

_____ ENGINEER'S CERTIFICATION (TCL)

_____ ENGINEER'S CERTIFICATION (DRB APPR. SITE PLAN)

_____ OTHER

CHECK TYPE OF APPROVAL SOUGHT:

_____ SIA / FINANCIAL GUARANTEE RELEASE

X PRELIMINARY PLAT APPROVAL

X S. DEV. PLAN FOR SUB'D. APPROVAL

VW S. DEV. PLAN FOR BLDG. PERMIT APPROVAL

_____ SECTOR PLAN APPROVAL

X FINAL PLAT APPROVAL

_____ FOUNDATION PERMIT APPROVAL

XXX BUILDING PERMIT APPROVAL

_____ CERTIFICATE OF OCCUPANCY (PERM.)

_____ CERTIFICATE OF OCCUPANCY (TEMP.)

_____ GRADING PERMIT APPROVAL

_____ PAVING PERMIT APPROVAL

_____ WORK ORDER APPROVAL

_____ OTHER (SPECIFY)

fee paid

WAS A PRE-DESIGN CONFERENCE ATTENDED:

_____ YES

X NO

_____ COPY PROVIDED

RECEIVED
APR 20 2006
HYDROLOGY SECTION

RECEIVED
APR 19 2006
HYDROLOGY SECTION

DATE SUBMITTED: 04 / 17 / 2006 BY: Shahab Biazar, P.E.

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittals may be required based on the following:

1. **Conceptual Grading and Drainage Plan:** Required for approval of Site Development Plans greater than five (5)
2. **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5)
3. **Drainage Report:** Required for subdivisions containing more than ten (10) lots or containing five (5) acres or more

DRAINAGE REPORT
FOR

VILLAS LAS MANANITAS SUBDIVISION

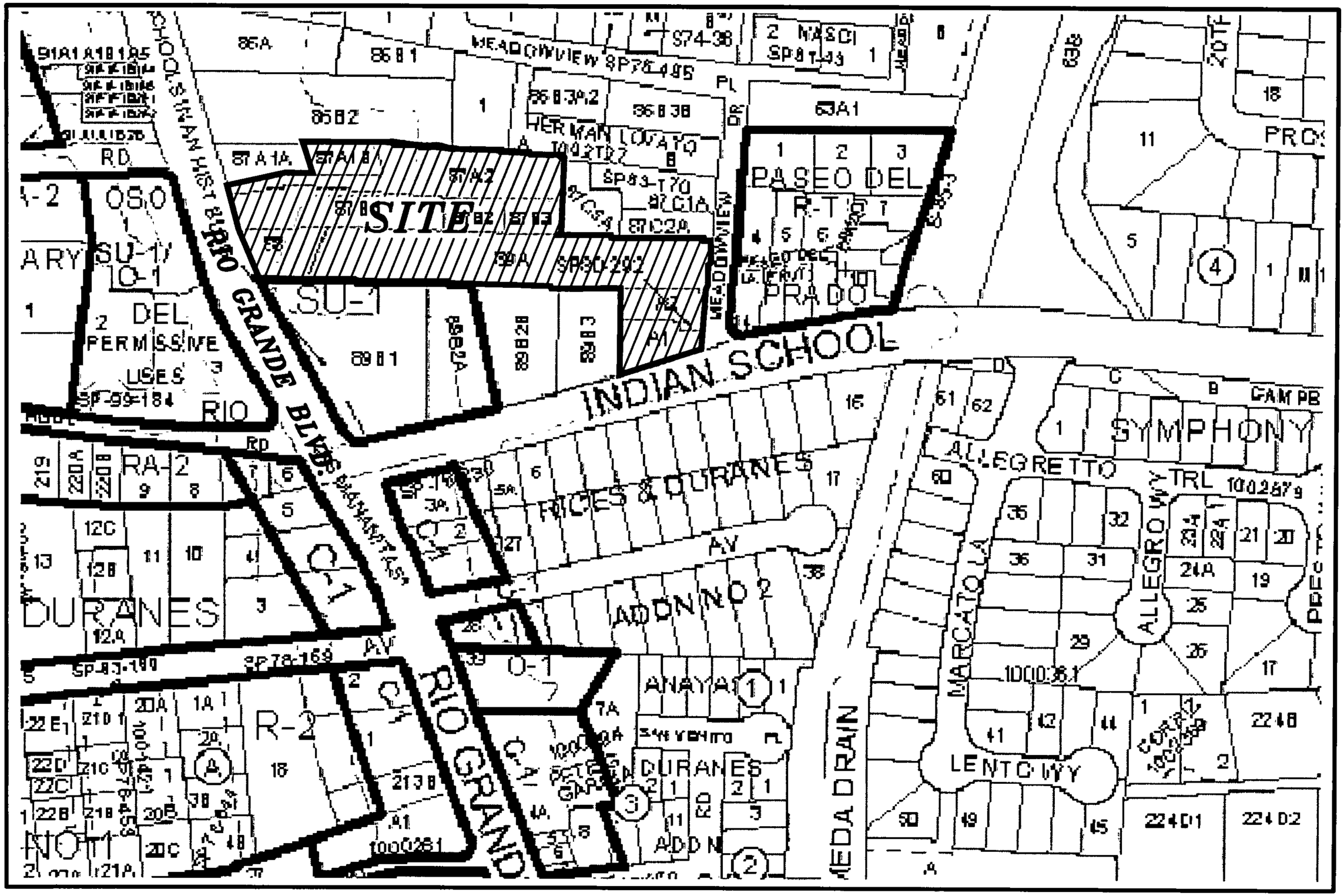
Prepared by:

ADVANCED
ENGINEERING
and CONSULTING, LLC
4416 Anaheim Ave., NE
Albuquerque, New Mexico 87113

April, 2006

SHAHAB BIAZAR
NEW MEXICO
13479
REGISTERED PROFESSIONAL ENGINEER
04/17/06

Shahab Biazar
PE NO. 13479



VICINITY MAP:

H–13–Z

Location

Villas Las Mananitas Subdivision is a 16 Lot Subdivision which is located at between Rio Grande Boulevard and Meadow View Road just north of Indian School. See attached Zone Atlas page number H-13 for exact location.

Purpose

The purpose of this drainage report is to present a grading and drainage solution for the proposed site. We are requesting rough grading approval, building permit approval, site plan for building permit approval, site plan for subdivision approval, and Preliminary and Final Plat approval.

Existing Drainage Conditions

This site is fairly flat. There are no offsite runoff. The runoff on-site partly drains to Rio Grande Boulevard and partly to Meadow View Road. From there the runoff is intercepted by storm sewer inlets within the street. The site does not fall within a 100-Year Floodplain.

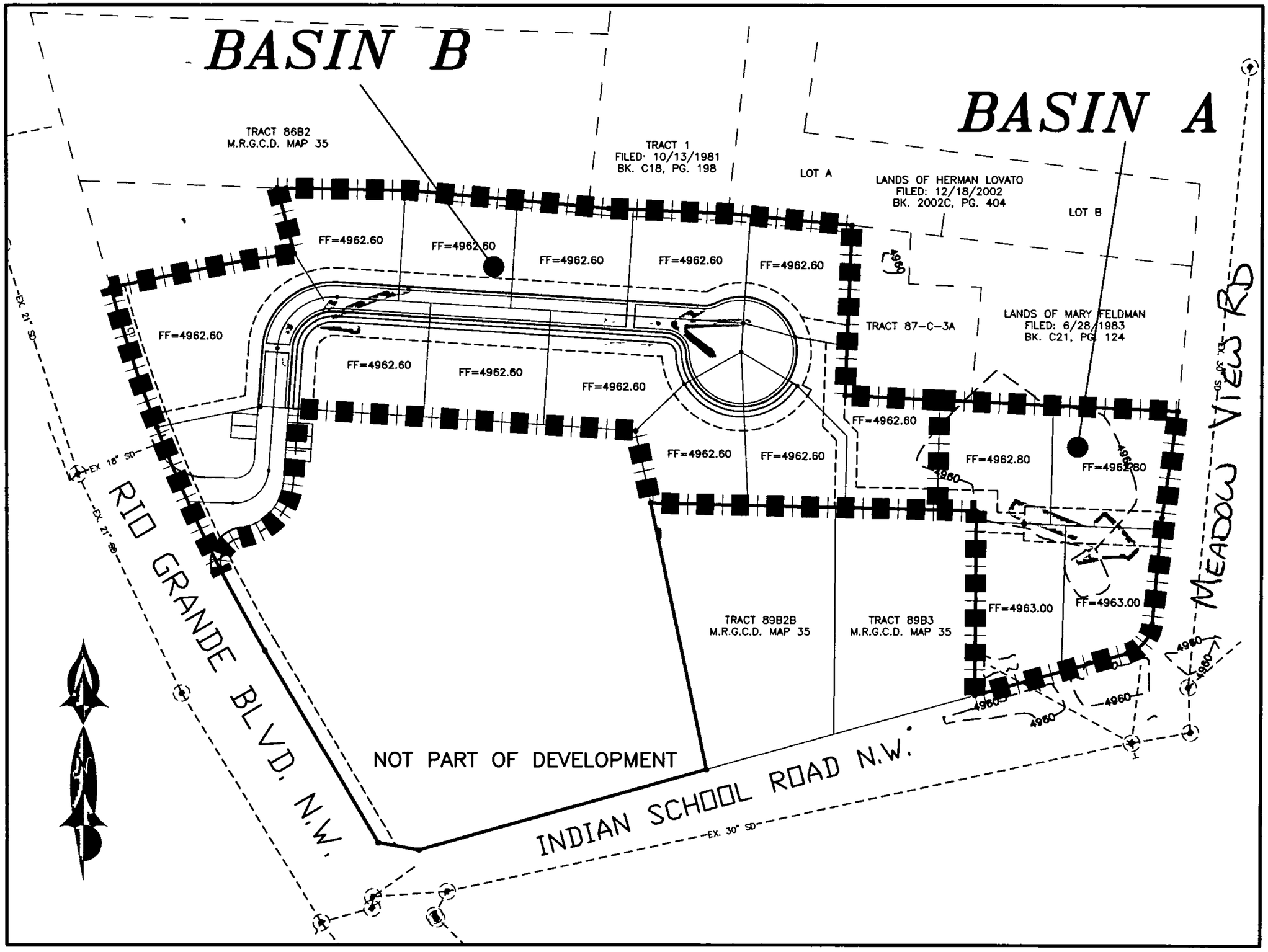
Proposed Conditions and On-Site Drainage Management Plan

The on-site drainage pattern will remain the same as existing conditions. The site is analyzed into two Basins A and B. Basin A (with a flow rate of 1.67 cfs) surface flows into Meadow View Road. Basin B will drain to two proposed inlets on-site, and then the runoff will be discharged into Rio Grande Boulevard storm sewer system via 18" storm sewer pipe.

The two proposed inlets (Type Single C) are designed for a runoff of 18.05 cfs each where the runoff generated from Basin B is only 5.84 cfs. The overall runoff from Basin A and B has increased in runoff by 3.09 cfs (from 4.42 cfs to 7.51 cfs). The increase in runoff is nominal, and it should not have an impact on the capacity of the exiting storm sewer structures. Also, the site is located near the exiting inlets within the street, and the runoff from this site enters the system and leaves the system before upper portion of the basin (contributing basin to the inlets within the street) drains to the inlets.

Calculations

City of Albuquerque, Development Process Manuel, Section 22.2, Hydrology Section, was used for runoff calculations. See this report for Summary Table for runoff results. See also this report for ponding calculations as well as the AHYMO input and output files for runoff calculations.



BASIN LAYOUT

NTS

RUNOFF CALCULATIONS

(INPUT DATA FOR AHYMO CALCULATIONS)

The site is @ Zone 2

DEPTH (INCHES) @ 100-YEAR STORM

P_{60} = 2.01 inches

P_{360} = 2.35 inches

P_{1440} = 2.75 inches

DEPTH (INCHES) @ 10-YEAR STORM

P_{60} = 2.01 x 0.667
= 1.34 inches

P_{360} = 1.57

P_{1440} = 1.83

See this report for input file and summary output from AHYMO calculations.

Also see the following table for the runoff results.

LAND TREATMENT

Based on the historical conditions:

A=100.00%

Based on the developed conditions:

$D = 7\sqrt{(N^2+5N)}$, Where N=units/acre, $N \leq 6$ (From DPM Section 22.2-Hydrology, Page A5, Table A-5)

N = 16/2.83 = 5.65

$D = 7\sqrt{(5.65^2 + 5*5.65)} = 54.30$ USE D=56.00%

Assume C=22% and B=22%

See the summary output from AHYMO calculations.

Also see the following runoff tables for a summary of the results.

RUNOFF CALCULATION RESULTS

BASIN	AREA (SF)	AREA (AC)	AREA (MI^2)
ON-SITE A	27170.85	0.6238	0.000975
ON-SITE B	95947.82	2.2027	0.003442

EXISTING

BASIN	Q-100 CFS	Q-10 CFS
ON-SITE A	0.98	0.23
ON-SITE B	3.44	0.82

PROPOSED

BASIN	Q-100 CFS	Q-10 CFS
ON-SITE A	1.67	0.81
ON-SITE B	5.84	2.84

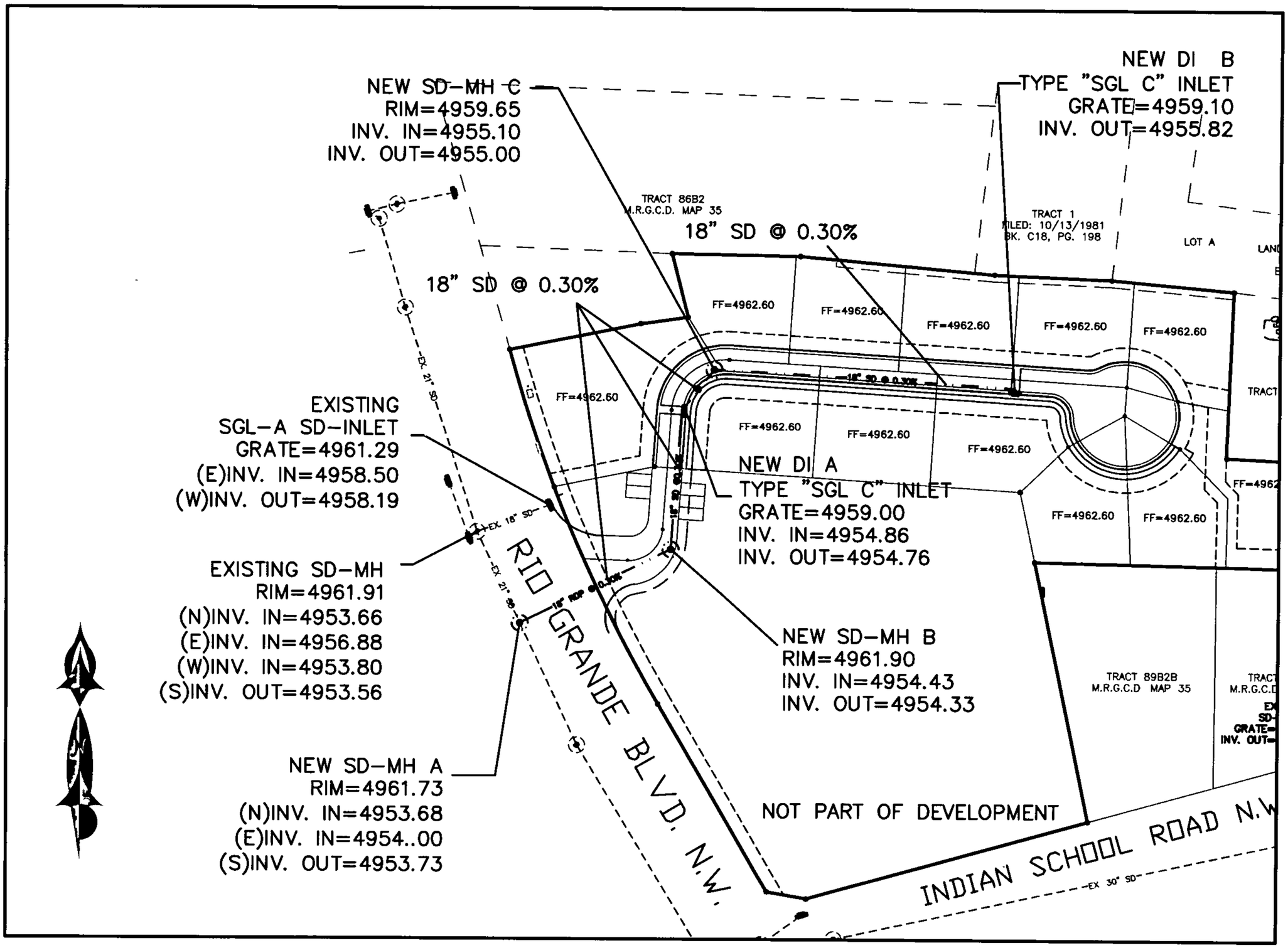
AHYMO INPUT FILE

```
* ZONE 2
**************************************************************
*         100-YEAR,  6-HR STORM (UNDER EXISITNG CONDITIONS)      *
**************************************************************
START                  TIME=0.0
RAINFALL               TYPE=1 RAIN QUARTER=0.0 IN
                       RAIN ONE=2.01 IN RAIN SIX=2.35 IN
                       RAIN DAY=2.75 IN DT=0.03333 HR
* ON-SITE BAISN A
COMPUTE NM HYD         ID=1 HYD NO=101.0 AREA=0.000975 SQ MI
                       PER A=100.00 PER B=0.00 PER C=0.00 PER D=0.00
                       TP=0.1333 HR MASS RAINFALL=-1
* ON-SITE BAISN B
COMPUTE NM HYD         ID=1 HYD NO=102.0 AREA=0.003442 SQ MI
                       PER A=100.00 PER B=0.00 PER C=0.00 PER D=0.00
                       TP=0.1333 HR MASS RAINFALL=-1
**************************************************************
*          10-YEAR,  6-HR STORM (UNDER EXISTING CONDITIONS)      *
**************************************************************
START                  TIME=0.0
RAINFALL               TYPE=1 RAIN QUARTER=0.0 IN
                       RAIN ONE=1.34 IN RAIN SIX=1.57 IN
                       RAIN DAY=1.83 IN DT=0.03333 HR
* ON-SITE BAISN A
COMPUTE NM HYD         ID=1 HYD NO=111.0 AREA=0.000975 SQ MI
                       PER A=100.00 PER B=0.00 PER C=0.00 PER D=0.00
                       TP=0.1333 HR MASS RAINFALL=-1
* ON-SITE BAISN B
COMPUTE NM HYD         ID=1 HYD NO=112.0 AREA=0.003442 SQ MI
                       PER A=100.00 PER B=0.00 PER C=0.00 PER D=0.00
                       TP=0.1333 HR MASS RAINFALL=-1
**************************************************************
*         100-YEAR,  6-HR STORM (UNDER PROPOSED CONDITIONS)      *
**************************************************************
START                  TIME=0.0
RAINFALL               TYPE=1 RAIN QUARTER=0.0 IN
                       RAIN ONE=2.01 IN RAIN SIX=2.35 IN
                       RAIN DAY=2.75 IN DT=0.03333 HR
* ON-SITE BAISN A
COMPUTE NM HYD         ID=1 HYD NO=103.0 AREA=0.000975 SQ MI
                       PER A=100.00 PER B=22.00 PER C=22.00 PER D=56.00
                       TP=0.1333 HR MASS RAINFALL=-1
* ON-SITE BAISN B
COMPUTE NM HYD         ID=1 HYD NO=104.0 AREA=0.003442 SQ MI
                       PER A=100.00 PER B=22.00 PER C=22.00 PER D=56.00
                       TP=0.1333 HR MASS RAINFALL=-1
**************************************************************
*          10-YEAR,  6-HR STORM (UNDER PROPOSED CONDITIONS)      *
**************************************************************
START                  TIME=0.0
RAINFALL               TYPE=1 RAIN QUARTER=0.0 IN
                       RAIN ONE=1.34 IN RAIN SIX=1.57 IN
                       RAIN DAY=1.83 IN DT=0.03333 HR
* ON-SITE BAISN A
COMPUTE NM HYD         ID=1 HYD NO=113.0 AREA=0.000975 SQ MI
                       PER A=100.00 PER B=22.00 PER C=22.00 PER D=56.00
                       TP=0.1333 HR MASS RAINFALL=-1
* ON-SITE BAISN B
COMPUTE NM HYD         ID=1 HYD NO=114.0 AREA=0.003442 SQ MI
                       PER A=100.00 PER B=22.00 PER C=22.00 PER D=56.00
                       TP=0.1333 HR MASS RAINFALL=-1
**************************************************************
*
FINISH
```

SUMMARY OUTPUT FILE

AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) - - VERSION: 1997.02d RUN DATE (MON/DAY/YR) =04/11/2006
INPUT FILE = 606 USER NO.= AHYMO-I-9702c01000R31-AH

COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	NOTATION	
START										TIME=	.00
RAINFALL TYPE= 1										RAIN6=	2.350
COMPUTE NM HYD	101.00	-	1	.00098	.98	.028	.53121	1.533	1.567	PER IMP=	.00
COMPUTE NM HYD	102.00	-	1	.00344	3.44	.098	.53121	1.533	1.559	PER IMP=	.00
START										TIME=	.00
RAINFALL TYPE= 1										RAIN6=	1.570
COMPUTE NM HYD	111.00	-	1	.00098	.23	.007	.12517	1.533	.375	PER IMP=	.00
COMPUTE NM HYD	112.00	-	1	.00344	.82	.023	.12517	1.533	.373	PER IMP=	.00
START										TIME=	.00
RAINFALL TYPE= 1										RAIN6=	2.350
COMPUTE NM HYD	103.00	-	1	.00098	1.67	.055	1.04905	1.500	2.669	PER IMP=	28.00
COMPUTE NM HYD	104.00	-	1	.00344	5.84	.193	1.04905	1.500	2.649	PER IMP=	28.00
START										TIME=	.00
RAINFALL TYPE= 1										RAIN6=	1.570
COMPUTE NM HYD	113.00	-	1	.00098	.81	.027	.51056	1.500	1.299	PER IMP=	28.00
COMPUTE NM HYD	114.00	-	1	.00344	2.84	.094	.51056	1.500	1.289	PER IMP=	28.00
FINISH											



PROPOSED SD LAYOUT

NTS

STORM DROP INLET DRAINAGE CAPACITY

Single 'C' (in ponding conditions)

Area at the grate:

L = 44 3/8" - 2(6"$_{ends}$) - 7(½ $_{middle\ bars}$)
= 28 7/8"
= 2.41'

W = 25 ½" - 13(½"$_{middle\ bars}$)
= 19"
= 1.58'

Area = 2.41' x 1.58'
= 3.81 ft^2

Effective Area = 3.81- 3.81 (0.5 $_{clogging\ factor}$)
= 1.91 ft^2 at the grate

Also see attached exhibit for grate effective area.

Are @ the Throat:

Orifice Equation $\Rightarrow Q = CA\sqrt{2gH}$ $C = 0.6$

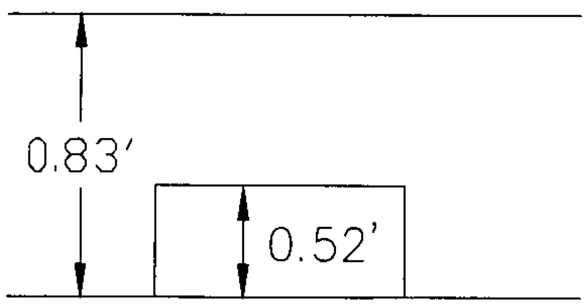
Weir Equation $\Rightarrow Q = CLH^{3/2}$ $C = 2.7$

L = 47 ⅜" = 3.9479'

H = 10 ¾" - 4 ½"
= 6 ¼" = 0.5208'

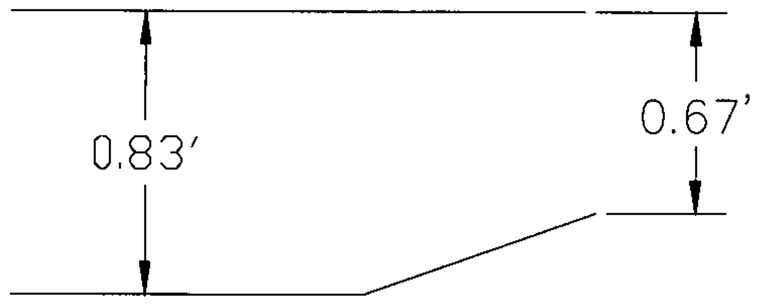
Area = 3.9479' x 0.5208
= 2.06 SF @ the Throat

THROAT



H=0.83
$Q=CA\sqrt{2gH}$
$Q=0.60(2.30)\sqrt{2(32.2)(0.83)}$
Q=10.09 CFS

GRATE

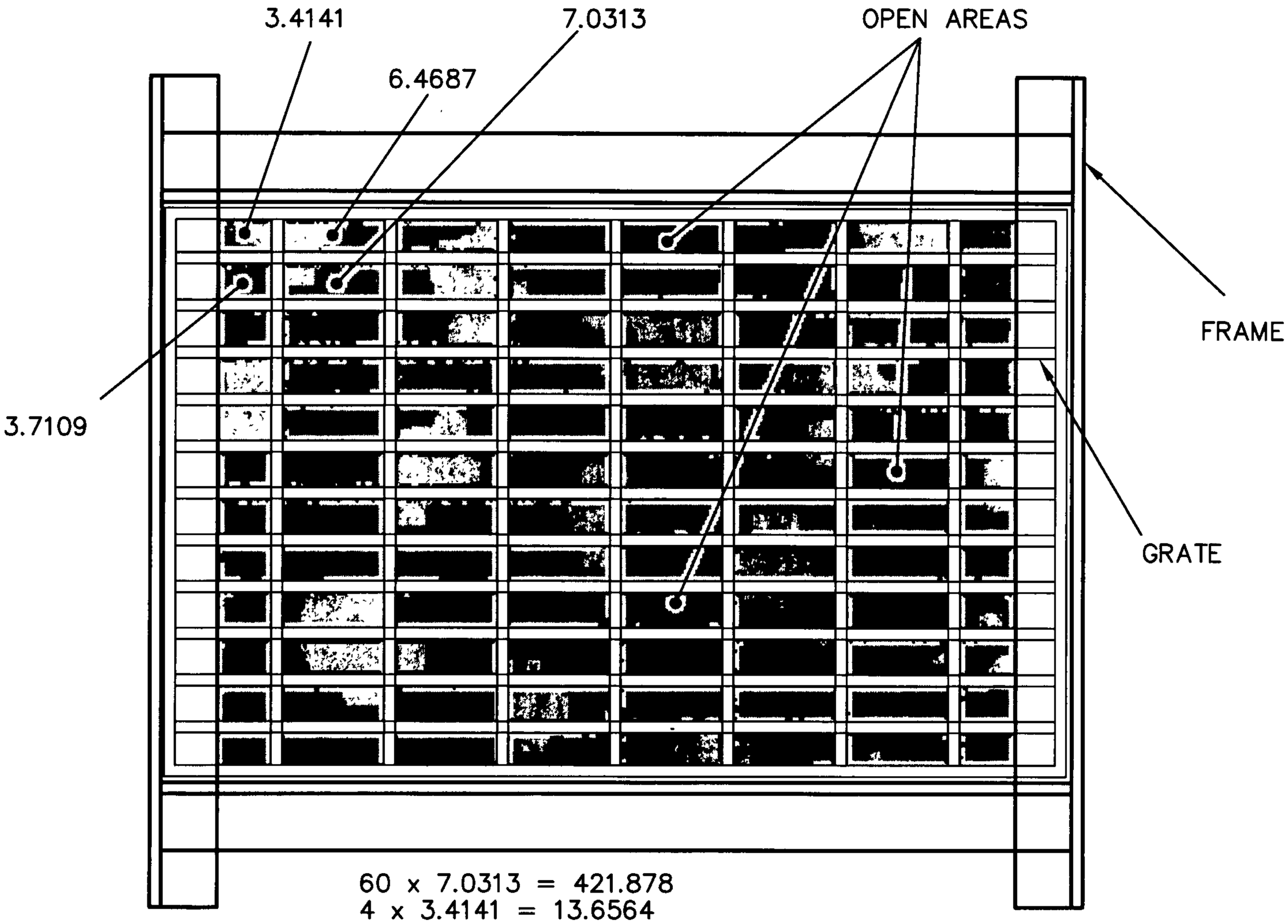


H=(0.83+0.67)/2
$Q=CA\sqrt{2gH}$
$Q=0.60(1.91)\sqrt{2(32.2)(0.75)}$
Q=7.96 CFS

TOTAL

Q=10.09+7.96=18.05 CFS

Total Runoff for Basin B = 5.84 cfs << Inlet Capacity = 36.10 cfs (18.05 x 2)



60 x 7.0313 = 421.878
4 x 3.4141 = 13.6564
12 x 6.4687 = 77.6244
10 x 3.7109 = 37.109
Total = 550.2678 sq-in (3.82 sf)

GRATE EFFECTIVE AREA

NTS

Circular Channel Analysis & Design
Solved with Manning's Equation

Open Channel - Uniform flow

Worksheet Name: 606

Comment: INLET-B TO MH-C TO INLET-A TO MH-B TO MH-A

Solve For Actual Depth

Given Input Data:

Diameter.....	1.50 ft
Slope.....	0.0030 ft/ft
Manning's n.....	0.012
Discharge.....	6.00 cfs

Computed Results:

Depth.....	1.18 ft
Velocity.....	4.02 fps
Flow Area.....	1.49 sf
Critical Depth....	0.95 ft
Critical Slope....	0.0053 ft/ft
Percent Full.....	78.79 %
Full Capacity.....	6.23 cfs
QMAX @.94D.....	6.70 cfs
Froude Number.....	0.64 (flow is Subcritical)

$Q = \frac{1.486}{n} A R^{2/3} S^{1/2}$

$= \frac{1.486}{.013}(3.14)(.5)^{.667}(.002)^{.5}$

$= 10$ cfs

$A = \pi r^2 = \pi(1) = 3.14$ ft²

$R = A/P = \frac{\pi r^2}{2\pi r} = r/2 = \frac{1}{2} = .5$ ft

$\frac{3.14}{2 \cdot \pi \cdot 1} =$

Villas Las Mananitas Subdivision- Indian School and Rio Grande
Site Visit 12-8-06

The grade of the subdivision is about 2' above the grade of the property to the west. In one small area about 50-60' north of Indian school on the west property line the dirt is loosely piled a little higher.

Photos above taken from Indian School looking north near property line.

Indian School looking west at southwest corner

Indian School looking north- about 2’ of fill

CITY OF ALBUQUERQUE

July 7, 2006

Shahab Biazar, P.E.
Advanced Engineering and Consulting, LLC
4416 Anaheim Ave. NE
Albuquerque, NM 87113

Re: Villas las Mananitas Subdivision, Preliminary Plat
Engineer's Stamp dated 6-06-06 (H13-D50)

Dear Mr. Biazar,

Based upon the information provided in your submittal received 6-09-06, the above referenced plan is approved for Preliminary Plat action by the DRB. Once the DRB has approved the plan, please submit a mylar copy to me in order to obtain rough grading approval.

This project requires a National Pollutant Discharge Elimination System (NPDES) permit. If you have any questions regarding this permit please feel free to call the DMD Storm Drainage Design section at 768-3654 (Charles Caruso).

If you have any questions, you can contact me at 924-3981.

Sincerely,

Kristal D. Metro, P.E.
Senior Engineer, Planning Dept.
Development and Building Services

C: Charles Caruso, DMD Storm Drainage Design
Bradley Bingham, DRB
file

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

DRAINAGE INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: VILLAS LAS MANANITAS SUBDIVISION ZONE ATLAS/DRG. FILE #: H13 / D50

DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: TRACTS 87A1B, 87A2, 87B1, 87B2, 87B3, 88, 89A, 89B1, 89B2A, & THE LANDS E. MAES TRACTS A1 & A2

CITY ADDRESS: _____

ENGINEERING FIRM: *Advanced Engineering and Consulting, LLC* CONTACT: Shahab Biazar
ADDRESS: 4416 Anaheim Ave., NE PHONE: (505) 899-5570
CITY, STATE: Albuquerque, New Mexico ZIP CODE: 87113

OWNER: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

ARCHITECT: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

SURVEYOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

CONTRACTOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

CHECK TYPE OF SUBMITTAL:

	DRAINAGE REPORT
	DRAINAGE PLAN 1ST SUBMITTAL, REQUIRES TCL OR EQUAL
	CONCEPTUAL GRADING & DRAINAGE PLAN
X	GRADING PLAN
	EROSION CONTROL PLAN
	ENGINEER'S CERTIFICATION (HYDROLOGY)
	CLOMR / LOMR
	TRAFFIC CIRCULATION LAYOUT (TCL)
	ENGINEER'S CERTIFICATION (TCL)
	ENGINEER'S CERTIFICATION (DRB APPR. SITE PLAN)
	OTHER

RESUB

CHECK TYPE OF APPROVAL SOUGHT:

	SIA / FINANCIAL GUARANTEE RELEASE
X	PRELIMINARY PLAT APPROVAL
X	S. DEV. PLAN FOR SUB'D. APPROVAL
X	S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
	SECTOR PLAN APPROVAL
X	FINAL PLAT APPROVAL
	FOUNDATION PERMIT APPROVAL
X	BUILDING PERMIT APPROVAL
	CERTIFICATE OF OCCUPANCY (PERM.)
	CERTIFICATE OF OCCUPANCY (TEMP.)
	GRADING PERMIT APPROVAL
	PAVING PERMIT APPROVAL
	WORK ORDER APPROVAL
	OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED:

	YES
X	NO
	COPY PROVIDED

RECEIVED
JUN 09 2006
HYDROLOGY SECTION

DATE SUBMITTED: 06 / 06 / 2006 BY: Shahab Biazar, P.E.

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittals may be required based on the following:

1. **Conceptual Grading and Drainage Plan:** Required for approval of Site Development Plans greater than five (5)
2. **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5)
3. **Drainage Report:** Required for subdivisions containing more than ten (10) lots or containing five (5) acres or more

ADVANCED ENGINEERING and CONSULTING, LLC

Consulting
Design
Development
Management
Inspection
Surveying

June 6, 2006

Mr. Phillip J. Lovato, E.I.
Engineering Associate, Planing Dept.
Development and Building Services
600 Second Street NW
Albuquerque, New Mexico 87102

RE: VILLAS LAS MANANITAS SUBDIVISION (H13 / D50)

Dear Mr. Lovato:

This submittal is due some changes on the grading plan. The site has been lowered. The drainage pattern has remained the same as the originally approved grading plan with engineering stamp date of 4-17-06.

Please contact me if there are any questions or concerns regarding this submittal.

Sincerely yours,

Shahab Biazar, P.E.

RECEIVED
JUN 09 2006
HYDROLOGY SECTION

4416 Anaheim Ave., N.E., Albuquerque, NM 87113 PH (505) 899-5570 FAX (505) 897-4996 EMAIL AECLLC@aol.com