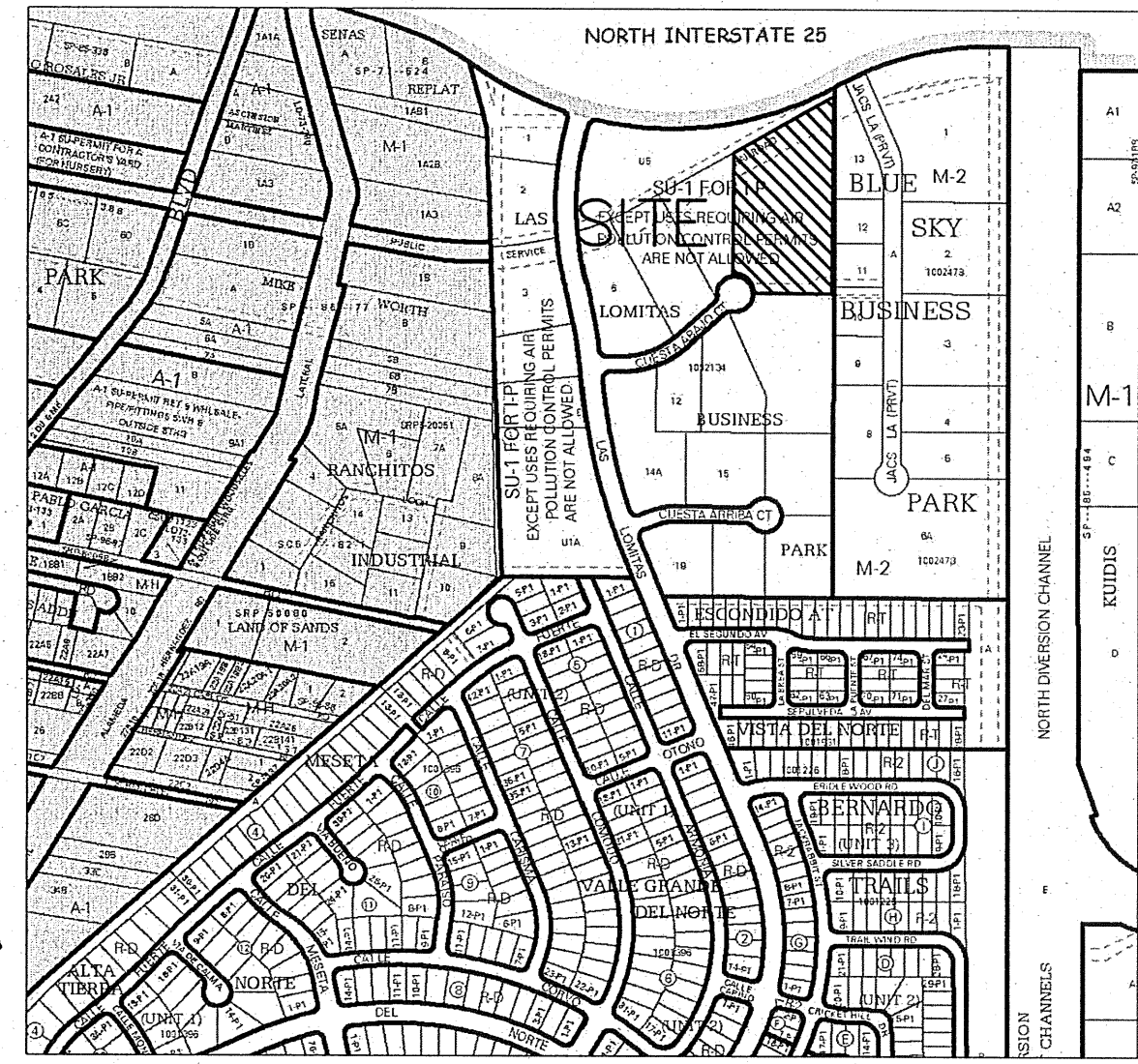


FINISHED PAD CERTIFICATION:
I, DAVID B. THOMPSON, NMPE 9677, OF THE FIRM THOMPSON ENGINEERING CONSULTANTS, INC. HEREBY CERTIFY THAT FINISHED PAD ELEVATIONS ARE IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 5/5/15. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY SANDIA LAND SURVEYING LLC. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON AUGUST 3, 2015 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE FINISHED PAD ELEVATION ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

David B. Thompson
DAVID B. THOMPSON, NMPE 9677
8-6-15
DATE

DAVID B. THOMPSON
NEW MEXICO
9677
LICENSED PROFESSIONAL ENGINEER

100-YEAR HYDROLOGIC CALCULATIONS											
BASIN #	AREA (acre)	LAND TREATMENT				WEIGHTED E (in)	100-YEAR PRECIPITATION				
		A (%)	B (%)	C (%)	D (%)		V (6-hr) (acre-ft)	V (6-hr) (cu-ft)	V(24-hr) (acre-ft)	V(24-hr) (cu-ft)	Q (cfs)
EXISTING CONDITIONS											
SITE	4.0425	100.00	0.00	0.00	0.00	0.53	0.18	7,777	0.18	7,777	6.31
TOTAL RUNOFF	4.04						0.18	7,777	0.18	7,777	6.31
PROPOSED CONDITIONS											
SITE	4.0425	76.20	2.60	2.60	18.60	0.85	0.29	12,441	0.31	13,533	8.91
TOTAL RUNOFF	4.04						0.29	12,441	0.31	13,533	8.91
EXCESS PRECIP		0.53	0.78	1.13	2.12	E _r (in)					
PEAK DISCHARGE		1.56	2.28	3.14	4.7	Q _{pk} (cfs)					
WEIGHTED E (in) = (E _A)(%A) + (E _B)(%B) + (E _C)(%C) + (E _D)(%D)							ZONE = 2				
V _{6-hr} (acre-ft) = (WEIGHTED E)(AREA)/12							P _{6-hr} (in.) = 2.35				
V _{24-hr} (acre-ft) = V _{6-hr} + (A ₂)(P _{24-hr} - P _{6-hr})/12							P _{24-hr} (in.) = 2.75				
Q (cfs) = (Q _{pk})(A ₄) + (Q _{pk})(A ₃) + (Q _{pk})(A ₂) + (Q _{pk})(A ₁)							P _{24-hr} (in.) = 3.95				



VICINITY MAP ZONE ATLAS: D-16-Z

DRAINAGE PLAN:

LEGAL DESCRIPTION: TRACT 9, LAS LOMITAS

SITE AREA: 4.04 ACRES

FLOOD HAZARD STATEMENT: F.E.M.A. FLOODWAY BOUNDARY AND FLOODWAY MAP DATED SEPTEMBER 26, 2008 (PANEL NO. 35043C0136 G) INDICATES A FLOOD HAZARD ZONE X WHICH IS AN AREA PROTECTED BY LEVEES FROM THE 1% ANNUAL CHANCE FLOOD.

EXISTING DRAINAGE CONDITIONS:

CURRENTLY THE TRACT IS VACANT WITH AN EARTH BERM LOCATED ALONG THE WEST PROPERTY LINE. THE TRACT CURRENTLY DRAINS TO THE CUL-DE-SAC BULB CUESTA ABAJO COURT. THIS TRACT IS LOCATED WITHIN THE LAS LOMITAS INDUSTRIAL PARK DRAINAGE MANAGEMENT PLAN (DMP), ACCORDING TO THE DMP A TOTAL OF 12.43 CFS IS ALLOWED TO DRAIN TO CUESTA ABAJO COURT FROM THE TRACT.

THE DRAINAGE ANALYSIS FOR THIS SITE IS IN ACCORDANCE WITH SECTION 22 OF THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL (DPM), ENTITLED "DRAINAGE, FLOOD CONTROL, AND EROSION CONTROL." THE DESIGN STORM USED FOR BOTH UNDEVELOPED AND DEVELOPED CONDITIONS IS THE 100-YEAR, 6-HOUR STORM EVENT FOR RUNOFF. THE SITE IS LOCATED IN ZONE 2 SO THE 100-YEAR, 6-HOUR STORM EVENT IS 2.35 INCHES. UNDER EXISTING CONDITIONS THE LOTS INCLUDE LAND TREATMENTS A.

DEVELOPED DRAINAGE CONDITIONS:

THIS PROJECT INVOLVES THE FIRST PHASE OF DEVELOPMENT OF TRACT 9 WITHIN THE LAS LOMITAS SUBDIVISION. THE TRACT WILL BE DEVELOPED INTO AN ASSISTED LIVING CENTER WITH SEVERAL BUILDINGS. THIS PHASE INCLUDES THE CONSTRUCTION OF THE FIRST BUILDING AND ASSOCIATED ACCESS AND PARKING.

THE ACCESS AND PARKING AREA IS GRADED TO DRAIN THROUGH THE ACCESS ROAD TO CUESTA ABAJO COURT. RUNOFF FROM THE BUILDING WILL BE DIRECTED TO A SWALE AT THE BASE OF THE BUILDING THAT DRAINS TO THE ACCESS DRIVE THROUGH A SIDEWALK CULVERT. RUNOFF FROM THE PARKING AREA AND ACCESS ROAD WILL DRAIN TO THE STREET VIA THE ACCESS DRIVEWAY. THE 100-YEAR, 6-HOUR RUNOFF FROM THE FIRST PHASE IS 8.91 CFS, WHICH IS LESS THAN THE ALLOWABLE RUNOFF OF 12.43 CFS.

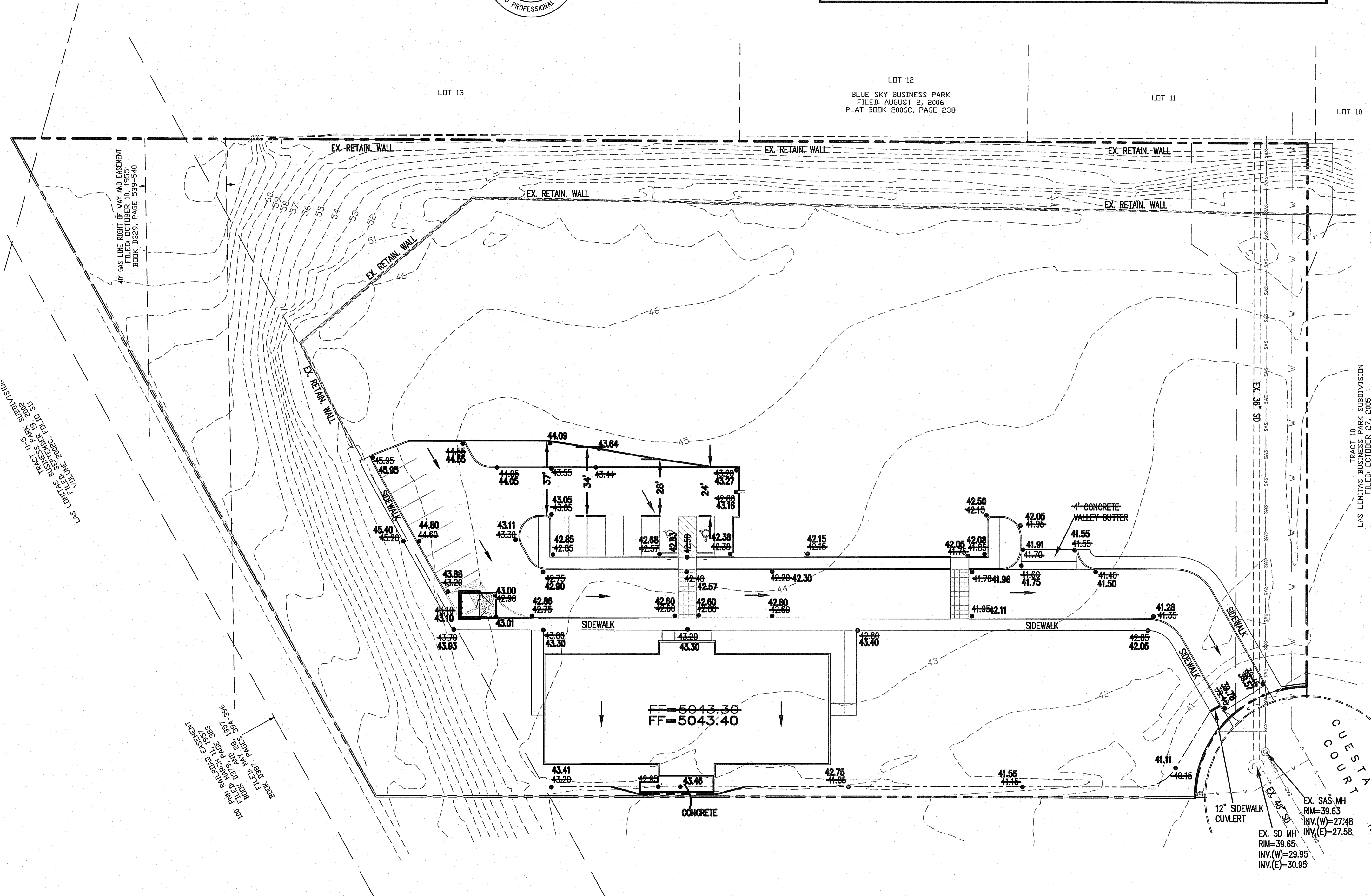
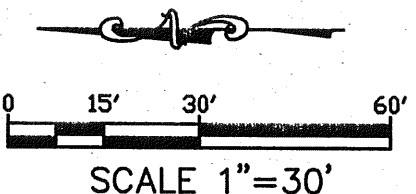
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73.00

— FINISHED FLOOR SITE ELEVATION
— SPOT ELEVATIONS
— EXIST. MAJOR CONTOURS
— EXIST. MINOR CONTOURS
— FLOW DIRECTION
— PROPOSED EASEMENT
— BOUNDARY
— PROPOSED SWALE

LEGEND

FF=70.20
73.00

— FINISHED FLOOR SITE ELEVATION
— SPOT ELEVATIONS
— EXIST. MAJOR CONTOURS
— EXIST. MINOR CONTOURS
— FLOW DIRECTION
— PROPOSED EASEMENT
— BOUNDARY
— PROPOSED SWALE



TRACT 8
LAS LOMITAS BUSINESS PARK SUBDIVISION
FILED OCTOBER 27, 2005
BOOK 2005C, PAGE 357

Thompson Engineering Consultants, Inc.
tccm@yahoo.com
PHONE: (505) 271-2199
FAX: (505) 850-9246
P.O. BOX 55760
ALBUQUERQUE, NM 87193

NO.	REVISION	BY	DATE

PROJECT: *Assisted Living Center*

DRAWN BY: BLN

CHECKED BY:

APPROVED BY:

HORIZ. SCALE:

VERT. SCALE:

ASSISTED LIVING CENTER
TRACT 9 LAS LOMITAS

PHASE I
GRADING & DRAINAGE PLAN

CITY/COUNTY REVIEW	DATE
DEPARTMENT	
WASTEWATER MGMT. DIV.	
WATER SERVICES	
SUBDIVISION ENG.	
STREETS	
TRAFFIC	

SHEET No.

1 of 1

FOR CITY/COUNTY USE ONLY

CITY OF ALBUQUERQUE



August 17, 2015

David Thompson, P.E.
Thompson Engineering Consultants, Inc.
PO Box 65760
Albuquerque, New Mexico 87193

**Re: Assisted Living Center Phase I
1331 Cuesta Abajo NE
Request for Permanent C.O. - Accepted
Engineer's Stamp dated: 5-5-15 (D16D101)
Certification dated: 8-16-15**

Dear Mr. Thompson,

Based on the Certification received 8/17/2015 and photos received, Phase I is acceptable for permanent Certificate of Occupancy by Hydrology.

If you have any questions, you can contact me at 924-3695 or Rudy Rael at 924-3977.

PO Box 1293

Albuquerque

New Mexico 87103

Sincerely,

Rita Harmon, P.E.
Senior Engineer, Hydrology
Planning Department.

www.cabq.gov

C: RR/RH
email