

GENERAL NOTES

1. ALL DESIGN WORK SHALL CONFORM TO PNM STANDARDS & SPECIFICATIONS.

KEYNOTES

1. SEED AREA, PART OF THE BOCA NEGRA DAM, CITY PROJECT NUMBER 781181.  
2. TAP STRUCTURE LOCATION.  
3. PART OF BOCA NEGRA DAM, CITY PROJECT NUMBER 781181.  
4. INSTALLED 12" HIGH, 8" THICK CMU WALL.



ZONE ATLAS MAP NO. D-09-2



REFERENCE: FLOOD INSURANCE STUDY PANEL 111 - MAP # 35001/00110

BOCA NEGRA DAM CITY PROJECT  
NUMBER 781181 AND SAD 228 CITY  
PROJECT NUMBER 693391 IMPROVEMENTS  
SHOWN FOR CONTEXT ONLY

LEGEND

- 4" CRUSHED STONE  
6" GRAVEL BASE COURSE  
EXISTING FLOOD ZONE AE LIMITS  
LIMITS OF SCENIC SUBSTATION  
PROPOSED CONTOUR - MINOR  
PROPOSED CONTOUR - MAJOR  
EXISTING CONTOUR - MINOR  
EXISTING CONTOUR - MAJOR  
TOP OF CONCRETE  
FLOWLINE  
SOIL CEMENT MATERIAL AREA

PNM PUBLIC SERVICE COMPANY  
OF NEW MEXICO

GRADING & DRAINAGE PLAN		SCENIC	
UNIT	SUBSTATION	DATE	SCALE
APP. NO.	FILE	SCALE	1" = 50'
REV. NO.	FILE	SCALE	1" = 50'



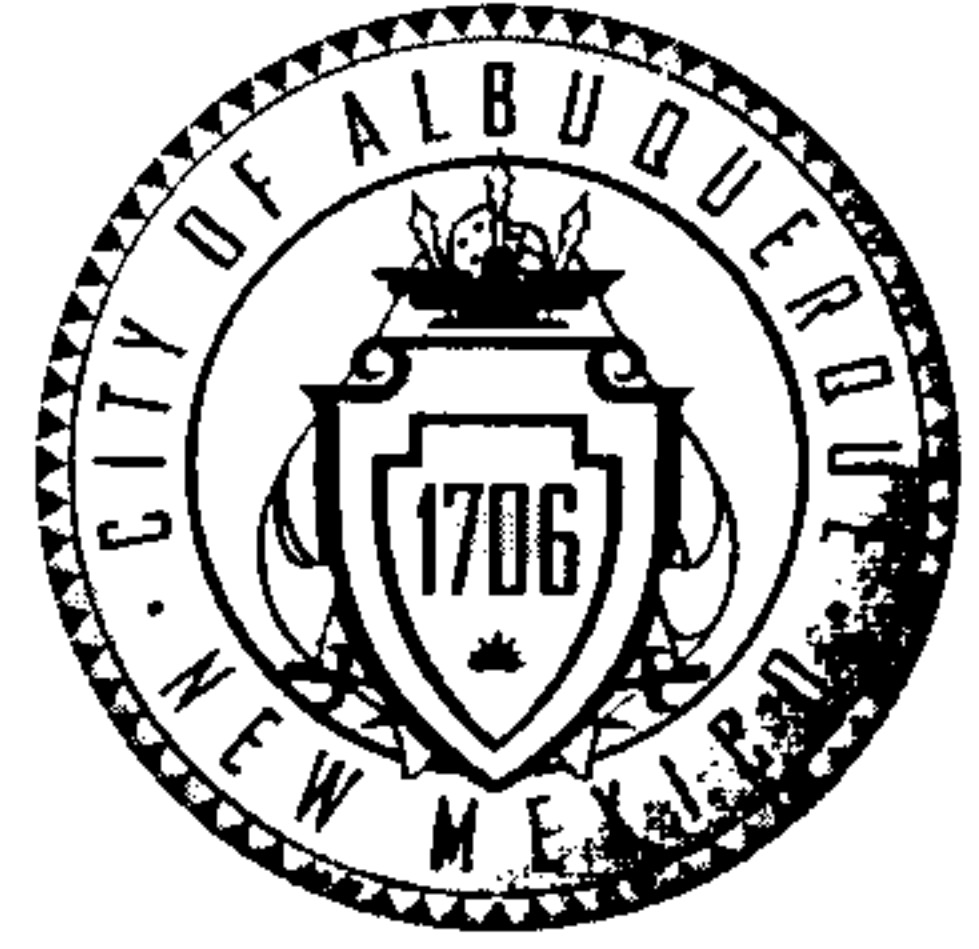
REVISION		EARTHWORK VOLUME (20% SWELL FACTOR):	
NO.	DATE	CUT	20,700 CY
		FILL	17,149 CY
		NET	121 CY (CUT)

GRADING & DRAINAGE PLAN

NOTE: CONTRACTOR SHALL EXCAVATE IN OTHER AREAS WITHIN BOCA NEGRA DAM BOUNDARY TO BALANCE EARTHWORK IF ROCK IS ENCOUNTERED. COORDINATE ADDITIONAL EXCAVATION AREAS WITH AMAFCA.



# CITY OF ALBUQUERQUE



July 18, ~~2011~~ <sup>2012</sup>

Donald Duneman, P.E.  
Wilson & Company  
2600 The American Road SE  
Rio Rancho, NM 87124

**Re: PNM Scenic Substation, Boca Negra Dam, Grading and Drainage Plan  
Engineer's Stamp Dated 7-3-2012, (D-10/D000A)**

Dear Mr. Duneman,

Based upon the information provided in your submittal received 7-3-2012, the above referenced grading plan is not approved for Building Permit until the following comments are addressed:

- AMAFCA approval is required for the work being accomplished inside the Boca Negra Dam Project.
- Please include the limits of the existing floodplain on the plan.
- A floodplain permit will be required for the grading taking place onsite.
- Show the 100-year and 500-year water surface elevation on the grading plan.
- Add the proposed and the existing contours in the legend.

If you have any questions, you can contact me at 924-3695.

Sincerely,

Shahab Biazar, P.E.  
Senior Engineer, Planning Dept.  
Development and Building Services

C: email

# DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003)

PROJECT TITLE: PNM SCENIC SUBSTATION ZONE MAP/DRG. FILE#: ~~D-9/40~~ D-10/D000A

DRB#: \_\_\_\_\_ EPC#: 1009244 WORK ORDER #: \_\_\_\_\_

LEGAL DESCRIPTION: TRACT 1 OF BOCA NEGRA DETENTION DAM WITHIN SECTIONS 21 AND 22, T11N, R2E

CITY ADDRESS: RAINBOW BLVD. NW ALBUQUERQUE, NM 87120

ENGINEERING FIRM: WILSON & COMPANY CONTACT: DONNIE DUNEMAN

ADDRESS: 2600 THE AMERICAN RD, SE PHONE: (505) 948-5125

CITY, STATE: RIO RANCHO, NM ZIP CODE: 87124

OWNER: PNM CONTACT: CAMILLE LOVATO

ADDRESS: ALVARADO SQUARE MS 0600 PHONE: (505) 241-4545

CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87158

ARCHITECT: \_\_\_\_\_ CONTACT: \_\_\_\_\_

ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

CITY, STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

SURVEYOR: WILSON & COMPANY CONTACT: SCOTT CROSHAW

ADDRESS: 4900 LANG AVE, NE PHONE: (505) 348-4000

CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87109

CONTRACTOR: \_\_\_\_\_ CONTACT: \_\_\_\_\_

ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

CITY, STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

## CHECK TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
- ☒ DRAINAGE PLAN 1<sup>st</sup> SUBMITTAL, REQUIRES TCL OR EQUAL
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☒ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☐ ENGINEERS CERTIFICATION (HYDROLOGY)
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ ENGINEERS CERTIFICATION (TCL)
- ☐ ENGINEERS CERTIFICATION (DRB, APPR. SITE PLAN)
- ☐ OTHER: \_\_\_\_\_

## CHECK TYPE OF APPROVAL SOUGHT:

- ☐ 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
- ☐ CERTIFICATION OF OCCUPANCY (PERM.)
- ☐ CERTIFICATION OF OCCUPANCY (TEMP.)
- ☐ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ WORK ORDER APPROVAL
- ☐ OTHER (SPECIFY) \_\_\_\_\_

## WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☐ YES
- ☒ NO
- ☐ COPY PROVIDED

Date Submitted: July 3rd, 2012

By: Donnie Duneman, PE

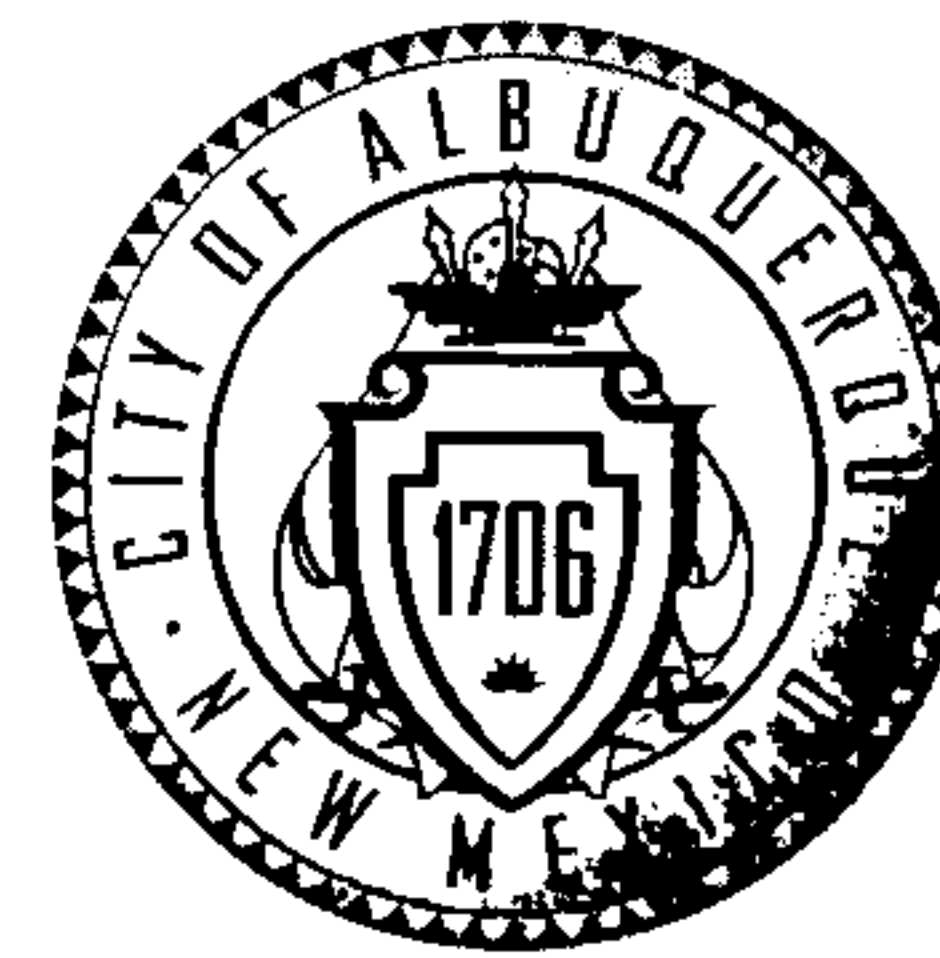
Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on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

1. **Conceptual Grading and Drainage Plan:** Required for approval of Site Development Plans greater than five
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 constituting five (5) acres or more.

OWES  
50.00

RECEIVED  
JUL - 3 2012

# CITY OF ALBUQUERQUE



July 26, 2012

Donald Duneman, P.E.  
Wilson & Company  
2600 The American Road SE  
Rio Rancho, NM 87124

**Re: PNM Scenic Substation, Boca Negra Dam, Grading and Drainage Plan  
Engineer's Stamp Dated 7-23-2012, (D-10/D000A)**

Dear Mr. Duneman,

PO Box 1293

Albuquerque

NM 87103

[www.cabq.gov](http://www.cabq.gov)

Based upon the information provided in your submittal received 7-24-2012, the above referenced grading plan is approved for Site Development Plan for Building Permit. Building Permit approval will be contingent upon AMAFCA approval of the proposed work within the Boca Negra Dam Project. Prior to Certificate of Occupancy release an engineer's certification per the DPM as well as an Elevation Certificate for work in a flood zone will be required.

If you have any questions, you can contact me at 924-3695.

Sincerely,

Shahab Biazar, P.E.  
Senior Engineer, Planning Dept.  
Development and Building Services

C: email



**DRAINAGE AND TRANSPORTATION INFORMATION SHEET**  
(REV 02/2012)

PROJECT TITLE: PNM Scenic Substation ZONE MAP: D10/D00A  
DRB#: \_\_\_\_\_ EPC#: 1009244 WORK ORDER#: \_\_\_\_\_  
LEGAL DESCRIPTION: Tract 1 of Boca Negra Dam within Sections 21 & 22 T11N R2E  
CITY ADDRESS: Rainbow Blvd NW Alb, NM 87120

ENGINEERING FIRM: Wilson & Company CONTACT: Donnie Dureman  
ADDRESS: 2600 The American Rd SE PHONE: 898-8021  
CITY, STATE: Alb, NM ZIP CODE: 87124  
EMAIL: \_\_\_\_\_

OWNER: PNM CONTACT: Camille Lovato  
ADDRESS: Alvarado Square MS 0600 PHONE: 241-4545  
CITY, STATE: Alb, NM ZIP CODE: 87158

ARCHITECT: \_\_\_\_\_ CONTACT: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_  
CITY, STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_  
EMAIL: \_\_\_\_\_

SURVEYOR: Wilson & Company CONTACT: Scott Crashaw  
ADDRESS: 4900 Long Ave PHONE: 548-4000  
CITY, STATE: Alb, NM ZIP CODE: 87109

CONTRACTOR: \_\_\_\_\_ CONTACT: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_  
CITY, STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

TYPE OF SUBMITTAL:  
☐ DRAINAGE REPORT  
☐ DRAINAGE PLAN 1<sup>st</sup> SUBMITTAL  
☐ DRAINAGE PLAN RESUBMITTAL  
☐ CONCEPTUAL G & D PLAN  
☒ GRADING PLAN  
☐ EROSION CONTROL PLAN  
☐ ENGINEER'S CERT (HYDROLOGY)  
☐ CLOMR/LOMR  
☐ TRAFFIC CIRCULATION LAYOUT  
☐ ENGINEER'S CERT (TCL)  
☐ ENGINEER'S CERT (DRB SITE PLAN)  
☒ OTHER (SPECIFY)

Floodplain  
Development Permit  
Form

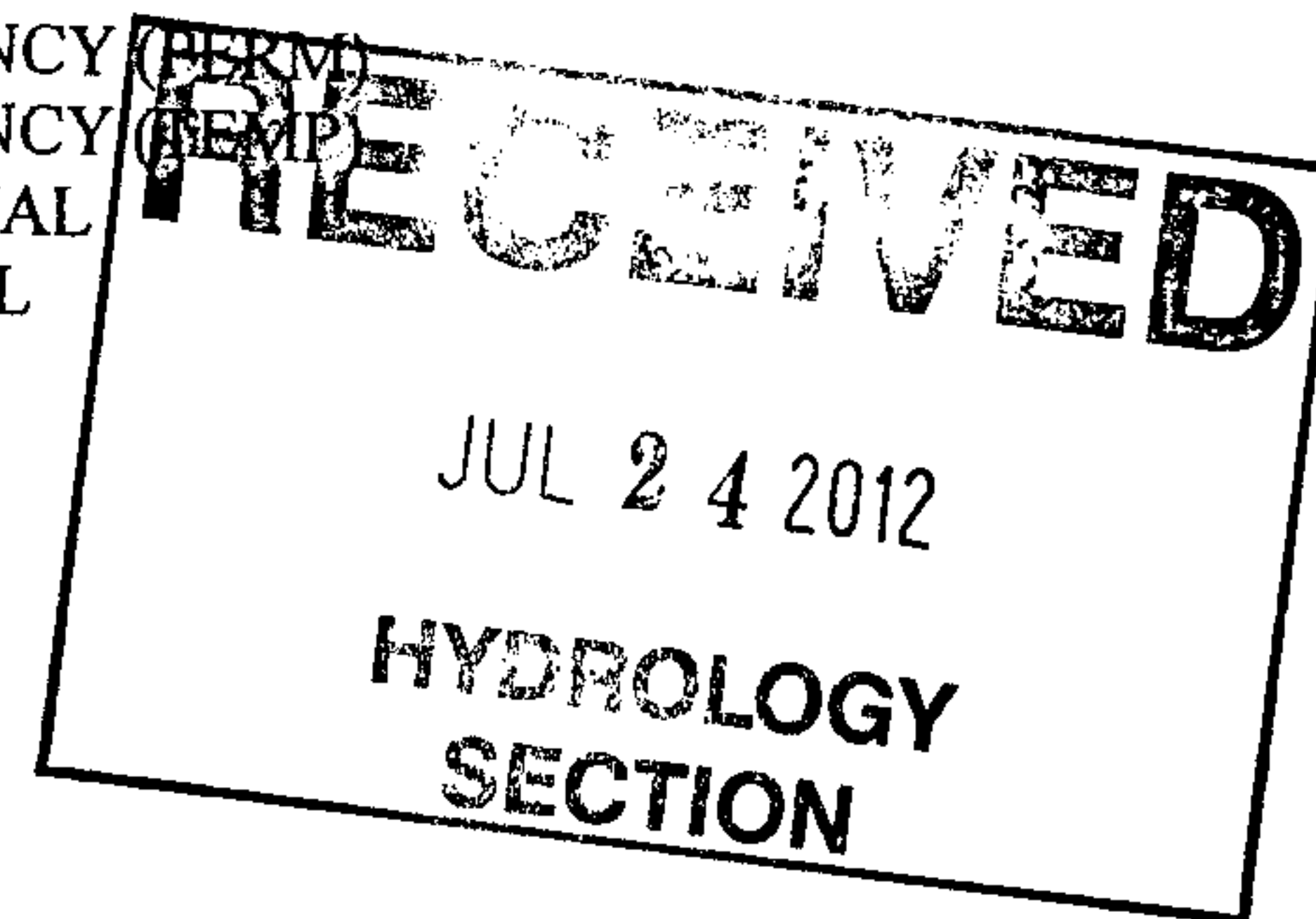
CHECK TYPE OF APPROVAL SOUGHT:  
☐ SIA/FINANCIAL GUARANTEE RELEASE  
☐ PRELIMINARY PLAT APPROVAL  
☐ S. DEV. PLAN FOR SUB'D APPROVAL  
☒ S. DEV. FOR BLDG. PERMIT APPROVAL  
☐ SECTOR PLAN APPROVAL  
☐ FINAL PLAT APPROVAL  
☐ FOUNDATION PERMIT APPROVAL  
☒ BUILDING PERMIT APPROVAL  
☐ CERTIFICATE OF OCCUPANCY (PERM)  
☐ CERTIFICATE OF OCCUPANCY (TEMP)  
☒ GRADING PERMIT APPROVAL  
☐ PAVING PERMIT APPROVAL  
☐ WORK ORDER APPROVAL  
☐ GRADING CERTIFICATION  
☐ OTHER (SPECIFY) SO-19

WAS A PRE-DESIGN CONFERENCE ATTENDED:  
☐ YES  
☒ NO  
COPY PROVIDED

DATE SUBMITTED: 7/24/12 BY: Donnie Dureman

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

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



# Floodplain Development Permit Form

Planning Dept., City of Albuquerque

## Section 1: General Provisions (Applicant to read and sign)

1. No work of any kind may start until a permit is issued.
2. Applicant is hereby informed that other permits may be required to fulfill local, state, and federal regulatory requirements.
3. Applicant hereby gives consent to the Floodplain Administrator and his/her representative to make reasonable inspections required to verify compliance.
4. The applicant certifies that all statements herein and in attachments to this application are, to the best of my knowledge, true and accurate.

Applicant Signature Donnie Duneman Date 7/23/12

Applicant Printed Name Donnie Duneman Phone #: 505-898-8021

## Section 2: Proposed Development in Special Flood Hazard Area (to be completed by Applicant)

Brief Project Description An Electric Substation surrounded by a 12' high wall which will be approximately 140' x 140' in size.

Applicant is (check one): Owner ☐ Builder ☐ Engineer/Architect ☒

Project address/Legal Desc/location: Tract 1 of Boca Negra Detention Dam within Sections 21 and 22, T11N, R2E

### Description of Work (in Special Flood Hazard Area):

#### A. Building Development

#### Building Type

- ☒ New Building  
☐ Addition  
☐ Alteration  
☐ Demolition

- ☐ Residential (1-4 Family)  
☐ Residential (More than 4 Family)  
☒ Commercial  
☐ Manufactured Home

Estimated Cost of Project \$ 5,000,000

Existing Structure Value \$ 0

%(new/existing): N/A

B. Other Development Activities

☐ Clearing ☐ Fill ☐ Drilling ☒ Grading  
☐ Excavation, except for Structural Development (checked above)  
☐ Watercourse Alteration (Including Dredging and Channel Modifications)  
☐ Drainage Improvements  
☐ Road, Street or Bridge Construction  
☐ Water or Sewer Line Installation  
☐ Paving  
☒ Walls  
☐ Storage of Materials/Equipment for more than 1 Year: Volume (cu. ft.): \_\_\_\_\_  
☒ Other (Please Specify) Electrical Substation

Is there a Grading Plan associated with this work? ☒ Yes ☐ No

Drainage file number: D-10/D000A

**Section 3: Floodplain Determination** (Completed by the Floodplain Administrator)

The proposed development is located in a SFHA Zone (circle one): A (AE) AH AO

And is located on FIRM Panel: 111

And is located in a Floodway: ☒ Yes ☐ No

BFE if Applicable: 5319 approximate

Drainage File Number: D-10/D000A

Floodplain Permit Number: D-10/F000A

Building Permit / Work Order #: \_\_\_\_\_

Site specific Instructions: proposed substation is in the future location  
of the Boca Negra Dam. Proposed 500 yr BFE is 5339.85, structure  
is at 5443/5444. Build per approved grading plan.  
Elevation cert req'd for CO.

Signed: Curtis A. Cherne

Date 7-31-12

Printed Name: Curtis Cherne



**If proposed development is a building, proceed to Section 4.**

**Section 4: Requirements for building in a SFHA:**

(To be completed by the Floodplain Administrator or Representative)

BFE (unless not available): \_\_\_\_\_

Minimum Finished Floor Elevation: \_\_\_\_\_

Minimum Lowest Adjacent Grade: \_\_\_\_\_

Change in water elevation (if in a Floodway): \_\_\_\_\_

Is flood-proofing required: \_\_\_ Yes \_\_\_ No

If yes, method of flood-proofing: \_\_\_\_\_

An Elevation Certificate is required for structural development in a SFHA. A Certificate of Occupancy will not be granted until the Planning Dept receives the Elevation Certificate.

**Section 5: Post Development Certification:**

A. For Structural Development:

Elevation Certificate received on Date: \_\_\_\_\_

Finished Floor Elevation: \_\_\_\_\_

Lowest Adjacent Grade: \_\_\_\_\_

The Floodplain Administrator or Representative verifies the above information is  
\_\_\_ acceptable or \_\_\_ not acceptable per the City of Albuquerque's Floodplain Ordinance.

The site was visually inspected on Date: \_\_\_\_\_

Certificate of Occupancy approved on Date: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_

B: For Other Development Activities:

The site was visually inspected on Date: \_\_\_\_\_ and found to be \_\_\_ in \_\_\_ not in  
compliance with the approved Floodplain Permit.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_



# **WILSON & COMPANY**

4900 Lang Ave NE

Albuquerque, NM 87109

505-348-4000 phone

Arizona  
California  
Colorado  
Florida  
Kansas  
Missouri  
Nebraska  
New Mexico  
Oklahoma  
Texas  
Utah

To: Shahab Biazar, P.E.  
Development and Building Services  
City of Albuquerque

Date: July 23, 2012

File Number: 11-600-106-00

Re: **PNM Scenic Substation, Boca Negra Dam  
Grading & Drainage Plan Submittal (D-10/D000A)**

Dear Mr. Biazar,

Please see below responses to your review dated July 18, 2012:

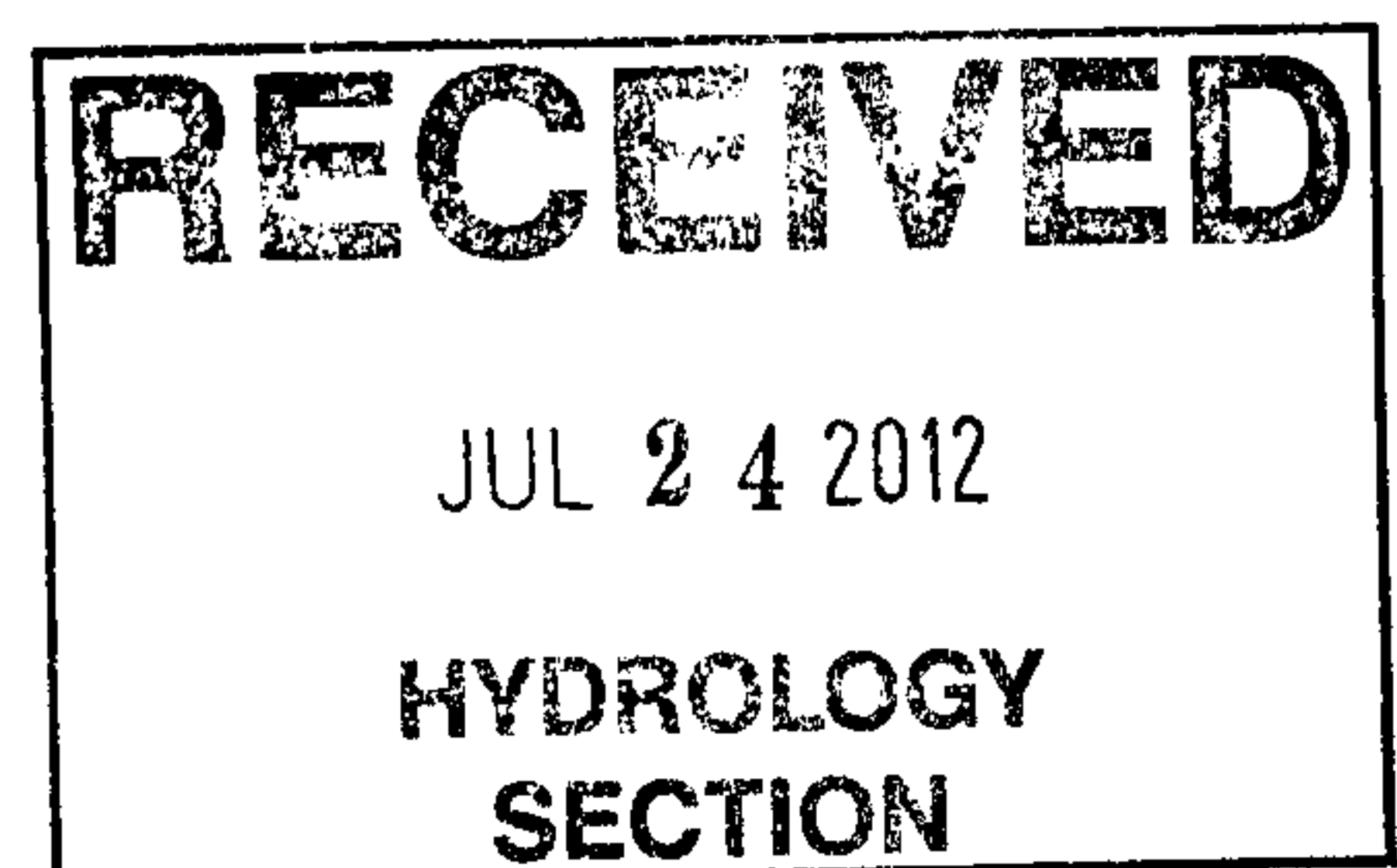
1. **AMAFCA approval is required for the work being accomplished inside the Boca Negra Dam Project.** The Grading and Drainage Plan has been submitted to AMAFCA for approval.
2. **Please include the limits of the existing floodplain on the plan.** The existing floodplain limits have been added to the plan and included on the legend.
3. **A floodplain permit will be required for the grading taking place onsite.** A Floodplain Permit Form is included with this submittal.
4. **Show the 100-year and 500-year water surface elevation on the grading plan.** Water Surface elevations for the Dam have been added to the end of the Drainage write-up.
5. **Add the proposed and the existing contours in the legend.** Done.

Please let me know if you have any questions.

Sincerely,



**Donnie Duneman, PE**



## **Hydrology Comments for EPC Hearing 6/14/12**

**1009244**

**Site Plan for Building Permit**

AMAFCA approval is required for DRB Site Plan approval.