CITY OF ALBUQUERQUE

July 14, 2010

Patrick J. Conley, P.E.
Smith Engineering Company
2201 San Pedro NE, Bldg 4 Ste 200
Albuquerque, NM 87110

Re: Albuquerque Biopark Australian Exhibit Phase II Grading and Drainage Plan

Engineer's Stamp dated 7-11-10 (K13/D044)
JSB

Dear Mr. Conley,

Based upon the information provided in your submittal received 7-14-10, the above referenced plan is approved for Building Permit and Work Order. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

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

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

Sincerely,.

Curtis A. Cherne

Curtis A. Cherne, P.E.
Senior Engineer, Planning Dept.
Development and Building Services

C: file

PO Box 1293
Albuquerque
NM 87103
www.cabq.gov

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(Rev. 12/2005)

PROJECT TITLE: AUSTRALIAN EXHIBIT PHASE II ZONE MAP/DRG. FILE #: K-13-Z025A

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

LEGAL DESCRIPTION: COA BIO-PARK (ZOO)

CITY ADDRESS:

ENGINEERING FIRM: SMITH ENG. CO. CONTACT: PAT CONLEY

ADDRESS: 2201 SAN PEDRO, BLDG 4, SUITE 200 PHONE: 884-0700

CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87110

OWNER: COA BIO-PARK CONTACT: GEORGE GEE

ADDRESS: PHONE:

CITY, STATE: ZIP CODE:

ARCHITECT: GEORGE GEE AIA (COA) CONTACT: GEORGE GEE

ADDRESS: PHONE:

CITY, STATE: ZIP CODE:

SURVEYOR: SURVEYING CONTROL, INC. CONTACT: STEVE TOLLE

ADDRESS: 131 MADISON ST. NE PHONE: 266-0935

CITY, STATE: ALB, NM 87108 ZIP CODE:

CONTRACTOR: N/A CONTACT:

ADDRESS: PHONE:

CITY; STATE: ZIP CODE:

TYPE OF SUBMITTAL:

- ____ DRAINAGE REPORT
- ____ DRAINAGE PLAN 1st SUBMITTAL
- ____ DRAINAGE PLAN RESUBMITTAL
- ____ CONCEPTUAL G & D PLAN
- X GRADING PLAN
- ____ EROSION CONTROL PLAN
- ____ ENGINEER'S CERT (HYDROLOGY)
- ____ CLOMR/LOMR
- ____ TRAFFIC CIRCULATION LAYOUT
- ____ ENGINEER'S/ARCHITECT'S CERT (TCL)
- ____ ENGINEER'S CERT (DRB SITE PLAN)
- ____ OTHER

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
- X BUILDING PERMIT APPROVAL
- ____ CERTIFICATE OF OCCUPANCY (PERM)
- ____ CERTIFICATE OF OCCUPANCY (TEMP)
- ____ GRADING PERMIT APPROVAL
- ____ PAVING PERMIT APPROVAL
- X WORK ORDER APPROVAL
- ____ OTHER (SPECIFY)

RECEIVED
JUL 14 2010
HYDROLOGY SECTION

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ____ YES
- X NO
- ____ COPY PROVIDED

SUBMITTED BY: PATRICK J. CONLEY DATE: 7/13/10

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.

Smith Engineering Company

Solutions for today... Vision for tomorrow

July 13, 2010

Mr. Curtis Cherne, PE
COA Development
Plaza Del Sol
600 2nd Street NW
Albuquerque, NM 87102

Re: Australian Exhibit Phase II
SEC# 109104O

Dear Curtis:

Smith Engineering Company (SEC) is re-submitting this grading and drainage submittal for your review and approval. This re-submittal addresses the comments from your July 6, 2010 letter (attached). The City of Albuquerque Bio-Park is planning to construct Phase II of the Australian Exhibit at the zoo. The proposed construction includes a new building with a 6,400 SF foot-print that is located adjacent to the existing Australian Exhibit building. The current drainage for the zoo area uses available open areas for ponding and percolation because there are no storm drains in this area of the facility. This grading plan follows this approach using retention ponds with 100-Year, 10-Day storm event water surface elevations in the ponds that are below the proposed finish floor elevations.

Specific items addressed in this re-submittal include:

- Finish floor elevations are shown. The building is a multi-level building for public viewing of the crocodiles. The various finish floor elevations are shown on the proposed grading plan.
- Required pond volumes and water surface elevations are shown for the 100-Year, 10-Day storm event.

I appreciate our review of this submittal and if you have any questions regarding this project, or would like to meet to discuss this further, please call me at 884-0700.

Sincerely,

Smith Engineering Company

Patrick J. Conley, PE
Project Manager

Enclosures: Plans, Drainage information sheet

cc: George Gee, AIA (COA)
File

RECEIVED
JUL 14 2010
HYDROLOGY SECTION

2201 San Pedro Drive, NE Albuquerque, NM 87110 Telephone 505/884-0700 Fax 505/884-2376
Building 4, Suite 200 PatC@smithengineering.pro

CITY OF ALBUQUERQUE

RECEIVED

July 6, 2010 JUL 8 2010

Patrick J. Conley, P.E.
Smith Engineering Company By: Smith Engineering Co.
2201 San Pedro NE, Bldg 4 Ste 200
Albuquerque, NM 87110

Re: Albuquerque Biopark Australian Exhibit Phase II Grading and Drainage Plan
Engineer's Stamp dated 7-1-10 (K13/D044)

Dear Mr. Conley,

Based upon the information provided in your submittal received 7-1-10, the above referenced plan cannot be approved for Building Permit until the following comments are addressed:

- Provide the Finished Floor elevation(s) for the proposed building.
- Provide the Required Volume and the Provided Volume for the retention ponds.
- It appears the volume calculations are for the 6-hour storm. Retention ponds are required to contain the 10-day volume.

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

Sincerely,

Curtis A. Cherne, P.E.
Senior Engineer, Planning Dept.
Development and Building Services

C: file

RECEIVED
JUL 14 2010
HYDROLOGY SECTION

PO Box 1293
Albuquerque
NM 87103
www.cabq.gov