

# CITY OF ALBUQUERQUE



December 12, 2018

David Soule, PE  
Rio Grande Engineering  
1606 Central SE Suite 201  
Albuquerque, NM 87106

**Re: 4617 Arlington  
Request Pad Certification for Lot 15, block 48- Accepted  
Engineer's Stamp Dated 12-4-05 (B13D011B)  
Certification dated: 10-25-18**

Dear Mr. Soule,

Based on the Certification received 12/5/2018, the above reference site is acceptable for building permit by Hydrology.

If you have any questions, you can contact me at 924-3986 or Totten Elliott at 924-3982.

PO Box 1293

Albuquerque

NM 87103

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

Sincerely,

Dana Peterson, P.E.  
Senior Engineer, Planning Dept.  
Development Review Services

TE/DP  
C: file



| Weighted E Method |              |                 |             |         |             |         |             |         |             |                 |
|-------------------|--------------|-----------------|-------------|---------|-------------|---------|-------------|---------|-------------|-----------------|
| Basin             | Area<br>(sf) | Area<br>(acres) | Treatment A |         | Treatment B |         | Treatment C |         | Treatment D |                 |
|                   |              |                 | %           | (acres) | %           | (acres) | %           | (acres) | %           | (acres)         |
| ALLOWED           | 6827.00      | 0.157           | 0%          | 0       | 10%         | 0.016   | 40%         | 0.0627  | 50%         | 0.078           |
| PROPOSED          | 6827.00      | 0.157           | 0%          | 0       | 15%         | 0.024   | 32%         | 0.0502  | 53%         | 0.083           |
| COMPARISON        |              |                 |             |         |             |         |             |         |             |                 |
|                   |              |                 |             |         |             |         |             |         |             | 100-Year, 6-hr. |
|                   |              |                 |             |         |             |         |             |         |             | Weighted E      |
|                   |              |                 |             |         |             |         |             |         |             | (ac-ft)         |
|                   |              |                 |             |         |             |         |             |         |             | Volume          |
|                   |              |                 |             |         |             |         |             |         |             | (ac-ft)         |
|                   |              |                 |             |         |             |         |             |         |             | Flow            |
|                   |              |                 |             |         |             |         |             |         |             | cfs             |
|                   |              |                 |             |         |             |         |             |         |             | 0.55            |
|                   |              |                 |             |         |             |         |             |         |             | 0.55            |
|                   |              |                 |             |         |             |         |             |         |             | 0.000           |

Equations:

Weighted E = Ea\*Aa + Eb\*Ab + Ec\*Ac + Ed\*Ad / (Total Area)

Volume = Weighted D \* Total Area

Flow = Qa \* Aa + Qb \* Ab + Qc \* Ac + Qd \* Ad

Where for 100-year, 6-hour storm- zone 1  
Ea= 0.44      Qa= 1.29  
Eb= 0.67      Qb= 2.03  
Ec= 0.99      Qc= 2.87  
Ed= 1.97      Qd= 4.37

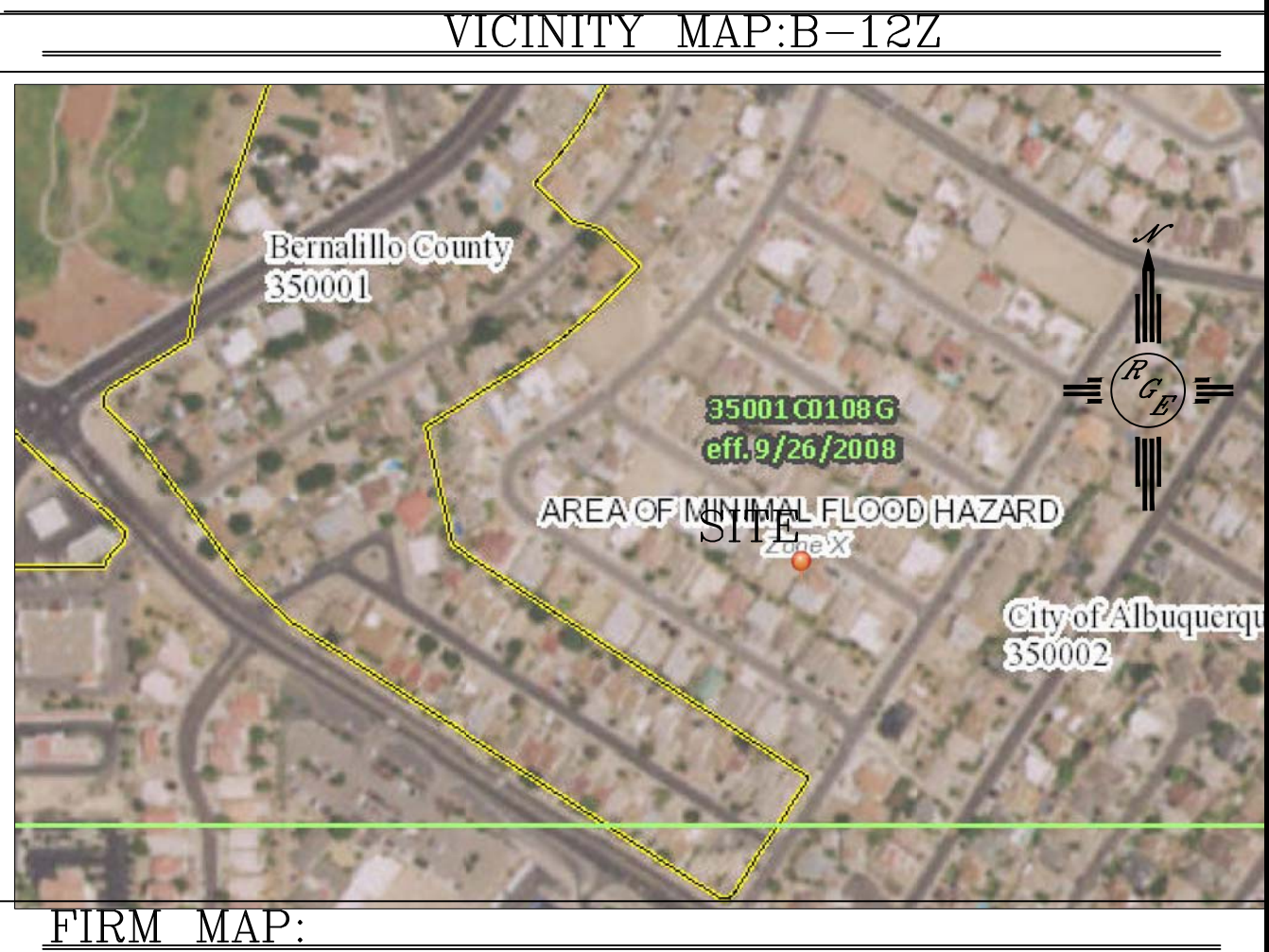
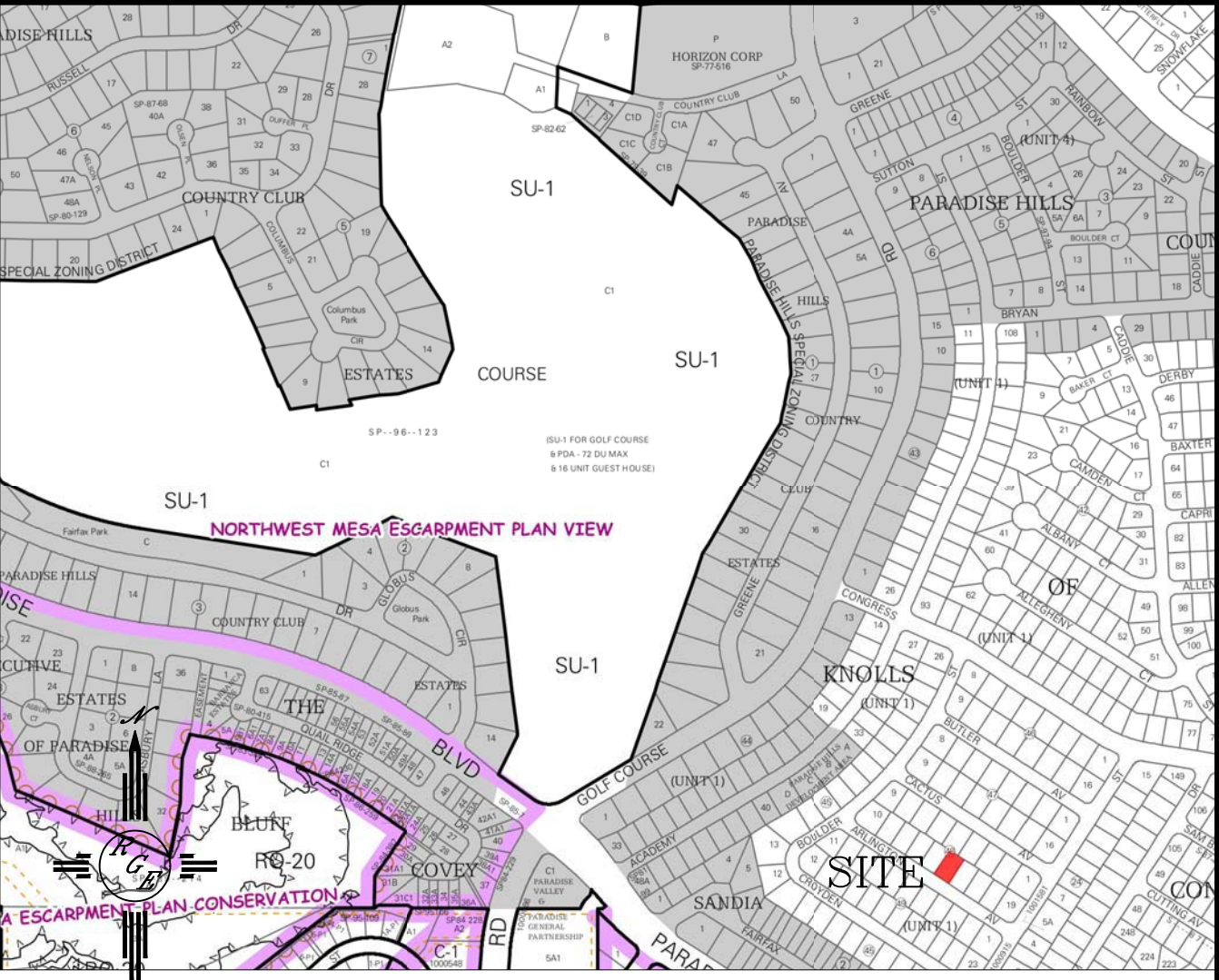
|                                  |          |          |
|----------------------------------|----------|----------|
| ONSITE Conditions                |          |          |
| FIRST FLUSH WATER QUALITY VOLUME | REQUIRED | PROVIDED |
|                                  | (CF)     | (CF)     |
| WATER QUALITY                    | NA       | 161      |
| FLOOD CONTROL                    | 0        | 0        |

Narrative

This site is within the SAD 222 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the the adjacent roadway lot to north per the master drainage plan. We are proposing water harvesting for first flush flows generated by the site This plan is in conformance to the master drainage plan

EROSION CONTROL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT.



LEGAL DESCRIPTION:  
LOT 15, BLOCK 48, THE KNOLLS AT PARADISE HILLS

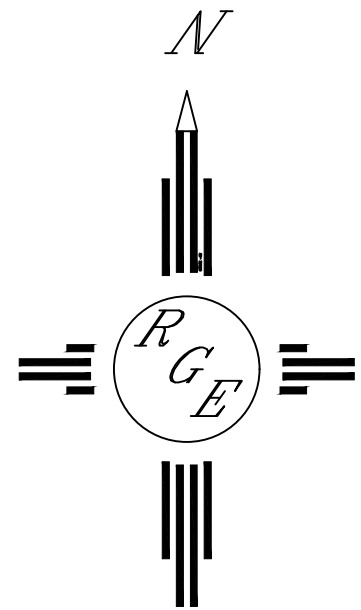
- NOTES:
1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
  2. TOPOGRAPHIC SURVEY INFORMATION SHOWN ON THIS PLAN WAS OBTAINED BY COMMUNITY SCIENCES, DATED DECEMBER 2018
  3. ALL DISTURBED AREAS MUST BE RESEED OR LANDSCAPED PRIOR TO FINAL C.O.. ALL AREAS OUTSIDE THE BUILDING ENVELOPE MUST BE RESEED WITH NATIVE MIX
  4. DUE TO EXISTING TOPOGRAPHY AND UNDEVELOPED NATURE OF THE DOWN STEAM AREA, PERIODIC MAINTENANCE OF PONDS AND SWALES ARE REQUIRED.

LEGEND

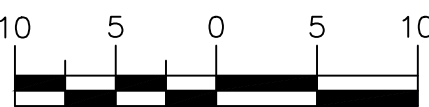
- 5411--- EXISTING CONTOUR
- 5410--- EXISTING INDEX CONTOUR
- 5411--- PROPOSED CONTOUR
- 5410--- PROPOSED INDEX CONTOUR
- 100.00 PROPOSED FLOWLINE ELEVATIONS
- PROPERTY LINE



12/4/18



GRAPHIC SCALE



SCALE: 1"=10'

|  |  |                    |
|--|--|--------------------|
| ENGINEER'S SEAL  | Lot 15, Block 48<br>The Knolls at Paradise Hills   | DRAWN BY JDG       |
| DAVID SOULE<br>NEW MEXICO<br>REGISTERED PROFESSIONAL ENGINEER<br>12/4/18 |  | DATE<br>12-04-2018 |
| DAVID SOULE<br>P.E. #14522   | GRADING AND DRAINAGE PLAN  | SHEET #<br>1 OF 1  |
|  | Rio Grande Engineering<br>1606 CENTRAL AVENUE SE<br>SUITE 201<br>ALBUQUERQUE, NM 87106<br>(505) 872-0999 | JOB #              |





# City of Albuquerque

Planning Department  
Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

**Project Title:** 4617 Arlington **Building Permit #:** \_\_\_\_\_ **Hydrology File #:** \_\_\_\_\_

**DRB#:** \_\_\_\_\_ **EPC#:** \_\_\_\_\_ **Work Order#:** \_\_\_\_\_

**Legal Description:** lot 15 block 48 Knolls of Paradise Hills

**City Address:** 4617 Arlington

**Applicant:** Steve chavez **Contact:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

**Other Contact:** RIO GRANDE ENGINEERING **Contact:** DAVID SOULE

**Address:** PO BOX 93924 ALB NM 87199

**Phone#:** 505.321.9099 **Fax#:** 505.872.0999 **E-mail:** david@riograndeengineering.com

**TYPE OF DEVELOPMENT:** ☐ PLAT ☐ RESIDENCE ☐ DRB SITE ☐ ADMIN SITE

Check all that Apply:

### DEPARTMENT:

☒ HYDROLOGY/ DRAINAGE  
☐ TRAFFIC/ TRANSPORTATION

### TYPE OF SUBMITTAL:

☐ ENGINEER/ARCHITECT CERTIFICATION  
☐ PAD CERTIFICATION  
☐ CONCEPTUAL G & D PLAN  
☒ GRADING PLAN  
☐ DRAINAGE REPORT  
☐ DRAINAGE MASTER PLAN  
☐ FLOODPLAIN DEVELOPMENT PERMIT APPLIC  
☐ ELEVATION CERTIFICATE  
☐ CLOMR/LOMR  
☐ TRAFFIC CIRCULATION LAYOUT (TCL)  
☐ TRAFFIC IMPACT STUDY (TIS)  
☐ STREET LIGHT LAYOUT  
☐ OTHER (SPECIFY) \_\_\_\_\_  
☐ PRE-DESIGN MEETING?

IS THIS A RESUBMITTAL?: ☐ Yes ☒ No

### TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

☒ BUILDING PERMIT APPROVAL  
☐ CERTIFICATE OF OCCUPANCY  
  
☐ PRELIMINARY PLAT APPROVAL  
☐ SITE PLAN FOR SUB'D APPROVAL  
☐ SITE PLAN FOR BLDG. PERMIT APPROVAL  
☐ FINAL PLAT APPROVAL  
  
☐ SIA/ RELEASE OF FINANCIAL GUARANTEE  
☐ FOUNDATION PERMIT APPROVAL  
☐ GRADING PERMIT APPROVAL  
☐ SO-19 APPROVAL  
☐ PAVING PERMIT APPROVAL  
☒ GRADING/ PAD CERTIFICATION \*\*\*  
☐ WORK ORDER APPROVAL  
☐ CLOMR/LOMR  
☐ FLOODPLAIN DEVELOPMENT PERMIT  
☐ OTHER (SPECIFY) \_\_\_\_\_

**DATE SUBMITTED:** \_\_\_\_\_ **By:** \_\_\_\_\_

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: \_\_\_\_\_

FEE PAID: \_\_\_\_\_

\*\*\* Site was graded prior to grading plan. Therefore we are submitting pad certification in addition to grading plan approval