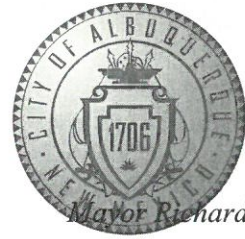


CITY OF ALBUQUERQUE

Planning Department
Suzanne Lubar, Director



Mayor Richard J. Berry

March 14, 2017

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

Re: Abrazo Homes
6539 Azor Lane NW
Request Permanent C.O. - Accepted
Engineer's Stamp dated: 9-6-16 (D10D003H5)
Certification dated: 3-10-17

Dear Mr. Soule,

Based on the Certification received 3/10/2017, the site is acceptable for release of Certificate of Occupancy by Hydrology.

If you have any questions, you can contact me at 924-3999 or Rudy Rael at 924-3977.

Sincerely,

Shahab Biazar, P.E.
City Engineer, Planning Dept.
Development Review Services

C: RR/RH
email



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title: _____ **Building Permit #:** _____ **City Drainage #:** _____

DRB#: _____ **EPC#:** _____ **Work Order#:** _____

Legal Description: _____

City Address: _____

Engineering Firm: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

Owner: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

Architect: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

Other Contact: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

Check all that Apply:

DEPARTMENT:

- ☐ HYDROLOGY/ DRAINAGE
☐ TRAFFIC/ TRANSPORTATION
☐ MS4/ EROSION & SEDIMENT CONTROL

TYPE OF SUBMITTAL:

- ☐ ENGINEER/ ARCHITECT CERTIFICATION
- ☐ CONCEPTUAL G & D PLAN
☐ GRADING PLAN
☐ DRAINAGE MASTER PLAN
☐ DRAINAGE REPORT
☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
☐ TRAFFIC IMPACT STUDY (TIS)
☐ EROSION & SEDIMENT CONTROL PLAN (ESC)
- ☐ OTHER (SPECIFY) _____

CHECK 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
- ☐ PRE-DESIGN MEETING
☐ OTHER (SPECIFY) _____

IS THIS A RESUBMITTAL?: ☐ Yes ☐ No

DATE SUBMITTED: _____ **By:** _____

COA STAFF: _____ ELECTRONIC SUBMITTAL RECEIVED: _____

Weighted E Method											
Basin	Area (sf)	Area (acres)	Treatment A % (acres)	Treatment B % (acres)	Treatment C % (acres)	Treatment D % (acres)	Weighted (ac-ft)	100-Year, 6-hr. Volume (ac-ft)	Flow cfs		
NATIVE	14000.00	0.321	80%	0.257	10%	0.032	10%	0.032	0.161	1.248	0.039
ALLOWED	14000.00	0.321	0%	0	10%	0.032	40%	0.1286	50%	0.161	1.248
PROPOSED	14000.00	0.321	0%	0	28%	0.090	40%	0.1286	32%	0.103	1.214
UPLAND	30133.00	1.151	0%	0	10%	0.115	40%	0.4604	50%	0.575	1.448
total											4.07

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

Qa= 1.29

Ea= 0.44

Eb= 0.67

Ec= 0.99

Ed= 1.97

Qb= 2.03

Qc= 2.87

Qd= 4.37

ONSITE Conditions:

FIRST FLUSH WATER QUALITY VOL

REQUIRED (CF)

127

PROVIDED (CF)

321

Narrative

This site is within the SAD 228 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the adjacent property per the master drainage plan. We are ponding the water harvest volume generated by the site we are allowing the upland flow to pass thru the site. This plan has a shallow water harvest pond in excess of the drainage regulation. The upland flow is such that the pad was raised and additional turned blocks provided to allow flow to pass thru site. This plan is in conformance to the master drainage plan

BLOCK 11 UNIT 18 VOLCANO CLIFFS SUBDIVISION

SITE TBM
PROVIDED BY CSTI
#5 REBAR
EL=5325.03
NAVD 1988

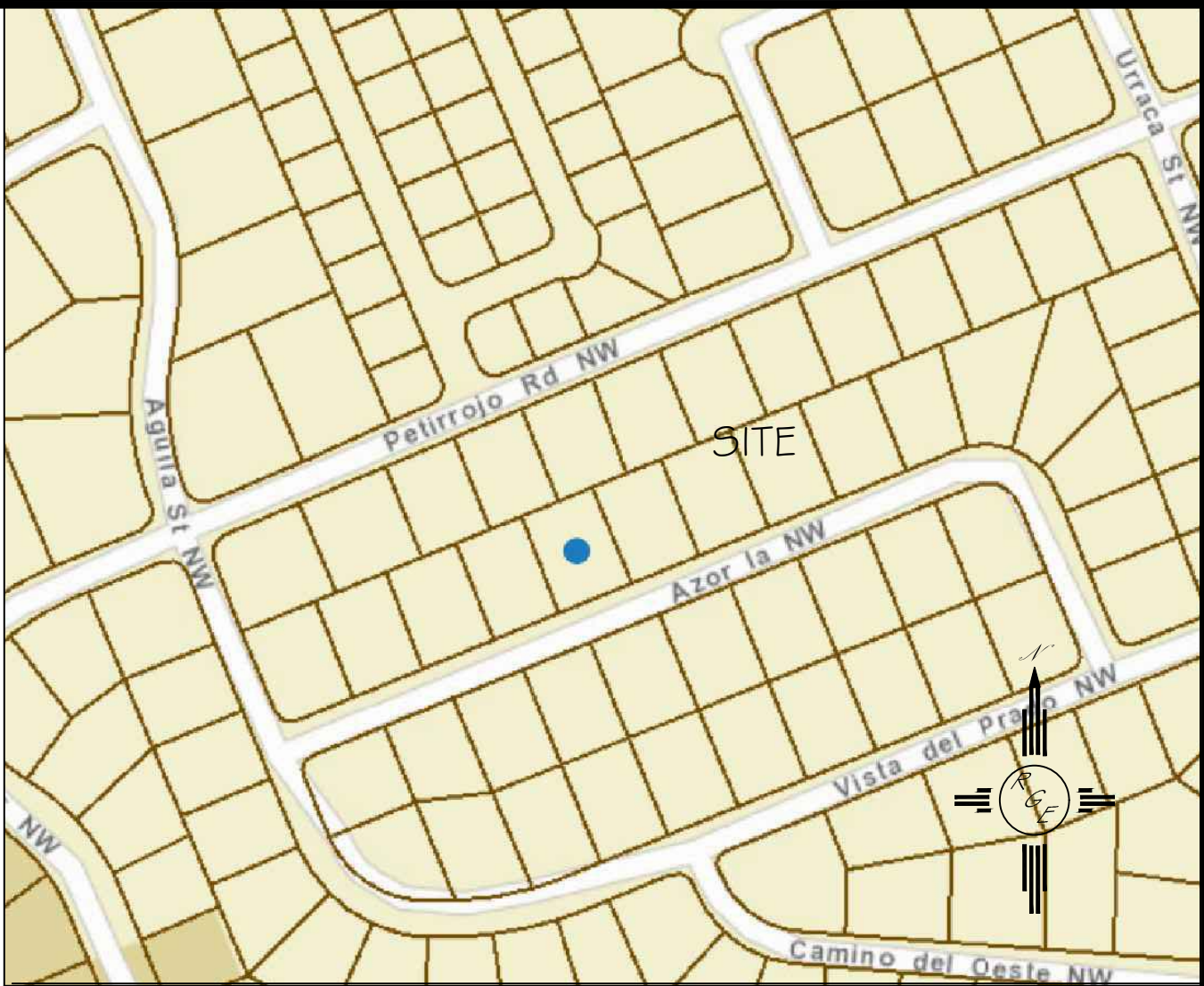
EROSION CONTROL NOTES:

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.

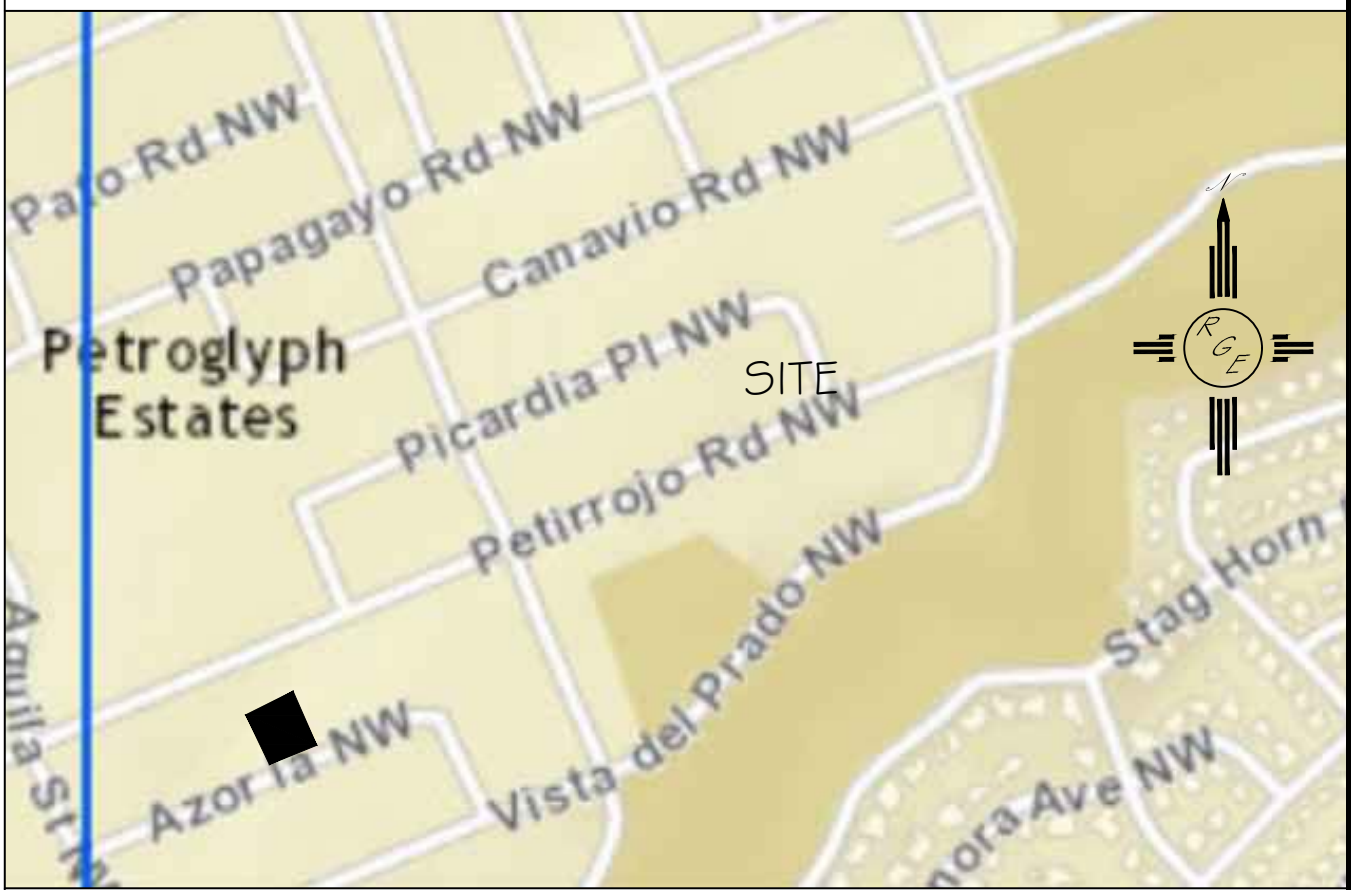
I David Soule, NMPE 14522, of the firm Rio Grande Engineering, hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intend of the approved plan dated 9/6/16. The record information edited on the original design document has performed by me or under my direct supervision and is true and correct to the best of my knowledge and belief. The as-built survey was provided DAVID ACOSTA NMPS 21082. The certification is submitted in support of a request for PERMANENT CERTIFICATE OF OCCUPANCY. The record information presented heron is not necessarily complete and intended only to verify substantial compliance of the grading and drainage 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.



3/10/17



VICINITY MAP:



FIRM MAP:

FM35001C0112G

LEGAL DESCRIPTION:

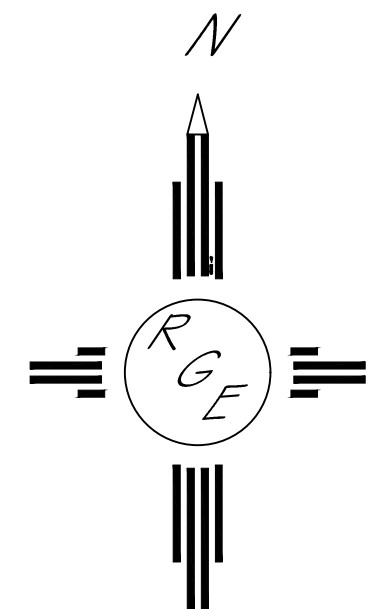
LOT 5, BLOCK 5, UNIT 19, VOLCANO CLIFFS SUBDIVISION

NOTES:

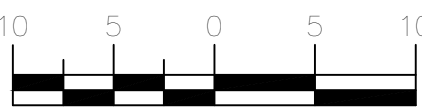
1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. TOPOGRAPHIC SURVEY INFORMATION SHOWN ON THIS PLAN WAS OBTAINED BY CONSTRUCTION SURVEY TECHNOLOGIES, DAVID ACOSTA PLS 21081, APRIL 2016

LEGEND

- 5411--- EXISTING CONTOUR
- 5410--- EXISTING INDEX CONTOUR
- 5411--- PROPOSED CONTOUR
- 5410--- PROPOSED INDEX CONTOUR
- >--- FLOW DIRECTION-SWALE
- PROPOSED SPOT (FLOW-LINE)



GRAPHIC SCALE



SCALE: 1"=10'

SCREEN WALL WITH 18"
MAX RETAINAGE
TURN BLOCK EVERY 24'
FOR LOT CROSS DRIANAGE

LOT 4
BLOCK 5 UNIT 19
VOLCANO CLIFFS SUBDIVISION

Point Table				
Point #	Elevation	Northing	Easting	Description
1163	5325.03	1515903.82	1500704.49	4RB
1214	5322.79	1515866.36	1500611.77	4RB
1232	5321.56	1515723.06	1500697.61	SA MH
1235	5328.30	1515835.72	1500976.75	SAS MH

AZOR LANE
(50' R/W)

SITE TBM
RIM=5321.56
NAVD 1988

SITE DISCHARGE POINT
OVER SIDEWALK
EL=5322.36

FL=21.66
MATCH

FL=21.33
MATCH

SAS MH
INV SW = 5316.51
INV NE = 5316.64

SA MH
INV SW = 5321.56
INV NE = 5321.56

WATER QUALITY POND
TOP=22.36
BOTTOM=21.50
VOLUME=321 CF

187 CF TOTAL ONSITE

SIDEWALK

CURB AND GUTTER

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