

# CITY OF ALBUQUERQUE



March 9, 2017

Richard J. Berry, Mayor

David Soule, P.E.  
Rio Grande Engineering  
PO Box 93924  
Albuquerque, NM, 87199

RE: **Kiotis Residence**  
**6908 Rim Rock Cir**  
**Grading Plan**  
**Engineer's Stamp Date 1/13/17 (File: D10D006)**

Dear Mr. Soule:

Based upon the information provided in your submittal received 2/13/17, the Grading Plan is approved for Building Permit.

PO Box 1293

If you have any questions, please contact me at 924-3695 or [dpeterson@cabq.gov](mailto:dpeterson@cabq.gov).

Albuquerque

Sincerely,

New Mexico 87103

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

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

Orig: Drainage file



# 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		Treatment B		Treatment C		Treatment D		Weighted E Volume (ac-ft)
			% (acres)	% (acres)	% (acres)	% (acres)	% (acres)	% (acres)	% (acres)	% (acres)	
NATIVE	14400.00	0.331	0%	0	100%	0.331	0%	0	0%	0.000	0.670
ALLOWED	14400.00	0.331	0%	0	10%	0.033	40%	0.13223	50%	0.165	0.040
PROPOSED	14400.00	0.331	0%	0	28%	0.093	34%	0.1124	38%	0.126	1.273
INCREASE											0.035
total											0.017
											0.018
											1.17
											0.043

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 (CF)	PROVIDED (CF)
WATER QUALITY	155	1035
50% of the 100year-24-hour	944	1035

Narrative

This site is within the SAD 227 Master Drainage plan boundaries. The site is to maintain existing drainage patterns. Since the lot can drain to the adjacent street we are to retain 50% of the 100-year, 24-hour storm volume generated. We are ponding the water harvest volume generated by the site. Since the downstream improvements have been constructed the site will drain to the adjacent roadway. Due to existing block wa upland flows impact this site, in the event a block get turned this site will except and pass the flows. The flush volume is retained on site. This plan is in conformance to the masterplan

LOT 13  
BLOCK 2  
UNSER CLIFFS SUBDIVISION

LOT 4  
BLOCK 2  
UNSER CLIFFS SUBDIVISION

EXISTING BLOCK WALL

Point Table			
Point #	Elevation	Northing	Eastng
2088	5324.00	531444.52	540855.63
2089	5324.00	5314547.08	540859.57
2094	5325.00	5314748.20	540854.50
2097	5324.00	5314495.34	540849.50

Curve Table			
Curve #	Length	Radius	Delta
C1	255.00	600.00	33° 30' 47" E
C2	125.00	600.00	16° 16' 47" W

LOT 3  
BLOCK 2  
UNSER CLIFFS SUBDIVISION

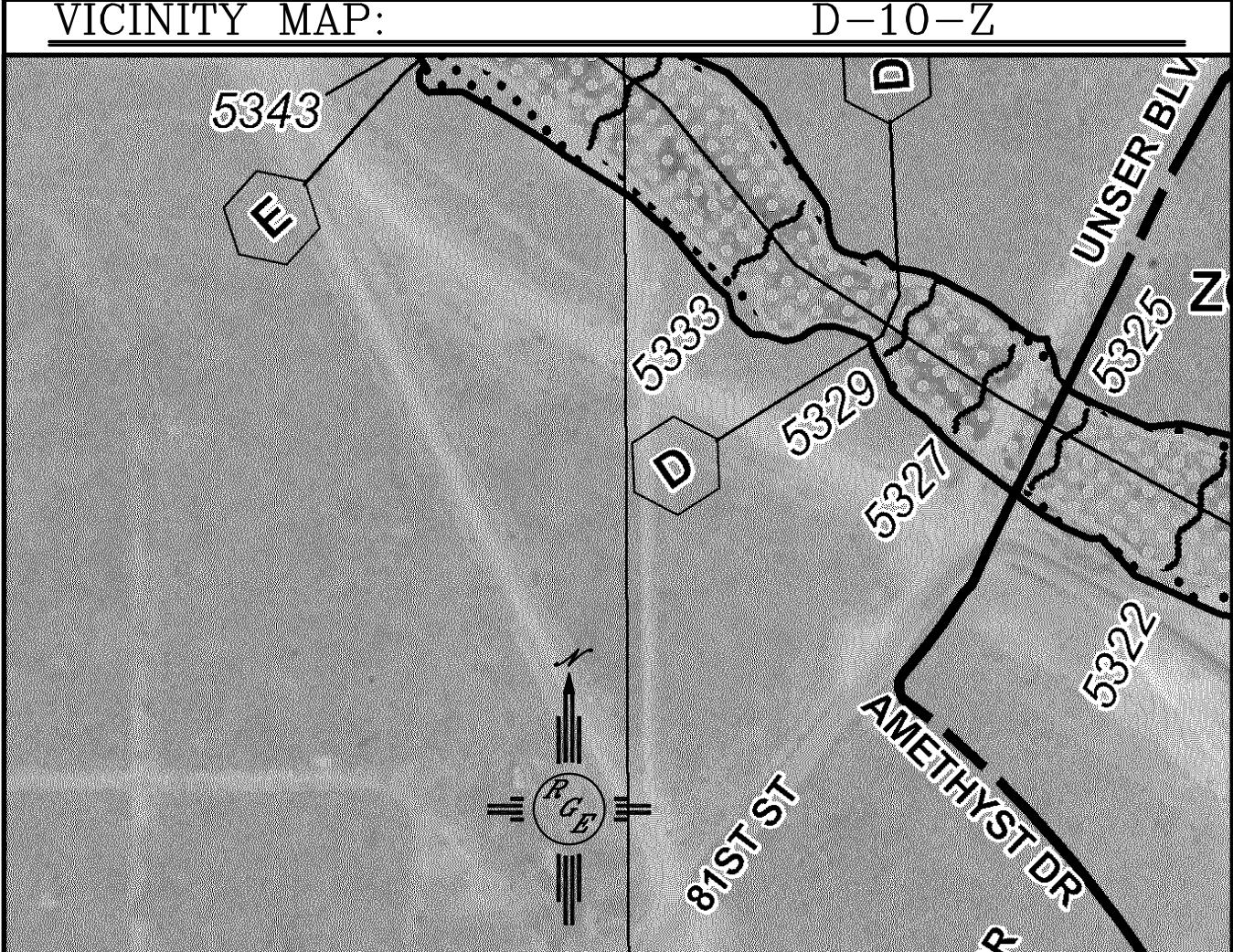
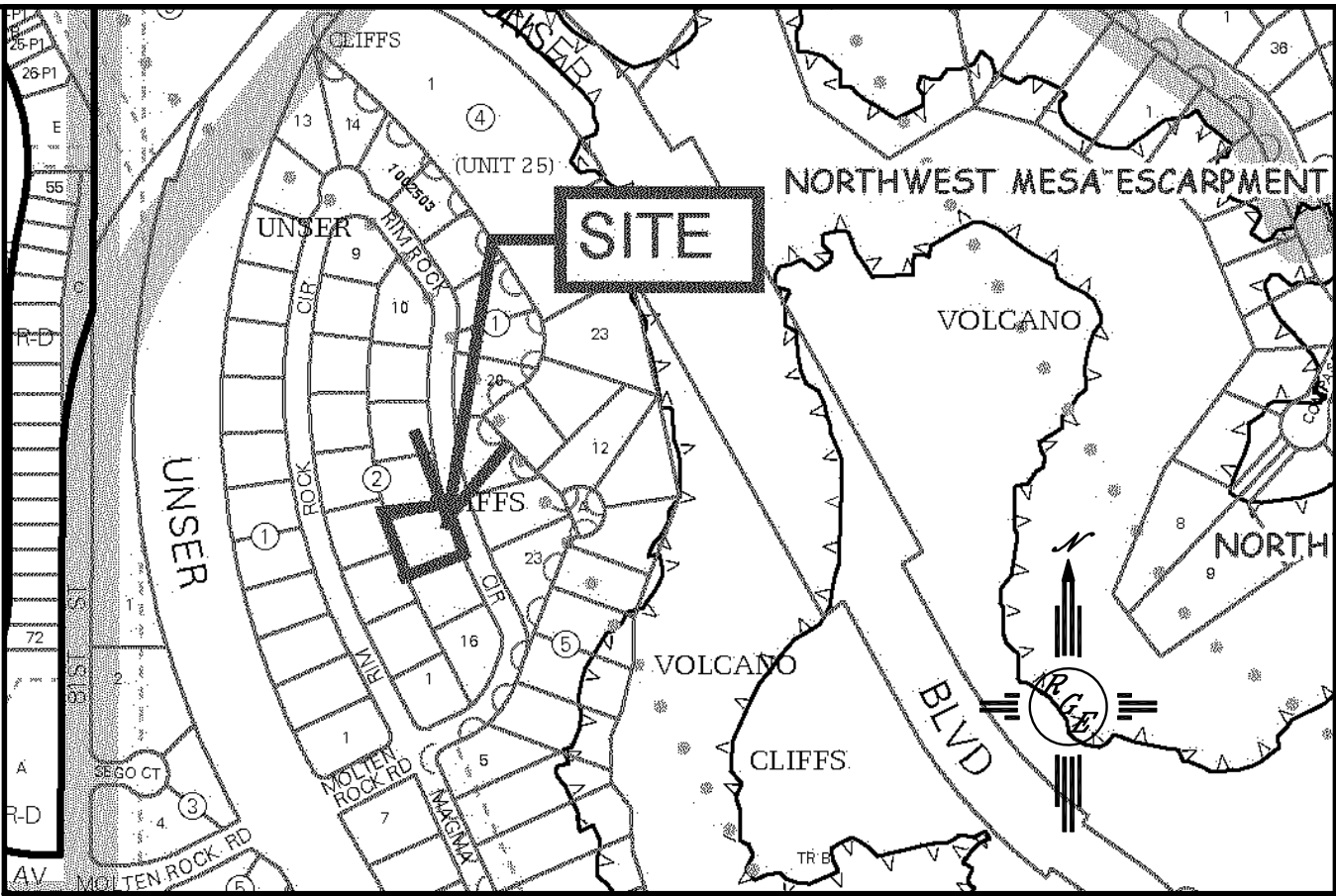
LOT 15  
BLOCK 2  
UNSER CLIFFS SUBDIVISION

BUILD RETENTION POND  
TOP=5324.25  
BOTTOM=5323.75  
PROPOSED VOLUME=284 CU. FT.

BUILD RETENTION POND  
TOP=5324.00  
BOTTOM=5323.50  
PROPOSED VOLUME=751 CU. FT.

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 ACCEPTANCE OF ANY PROJECT.



FIRM MAP: FM35001C0111G

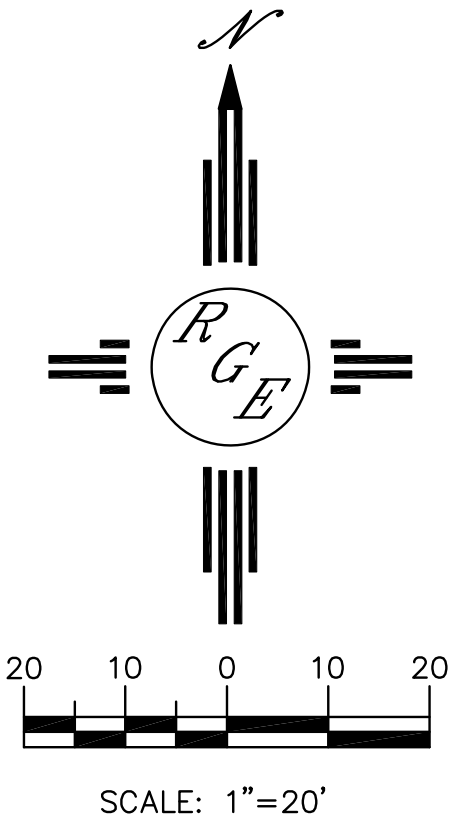
LEGAL DESCRIPTION:  
LOT 11, BLOCK 13, VOLCANO CLIFFS, UNIT - 5

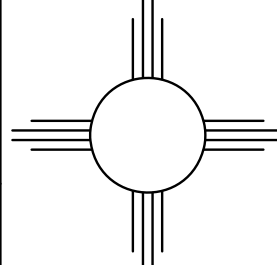
NOTES:  
1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.

LEGEND

- - - - -XXXX- - - - - EXISTING CONTOUR
- - - - -XXXX- - - - - EXISTING INDEX CONTOUR
- - - - -XXXX- - - - - PROPOSED CONTOUR
- - - - -XXXX- - - - - PROPOSED INDEX CONTOUR
- - - - -XXXX- - - - - SLOPE TIE
- + XXXX EXISTING SPOT ELEVATION
- + XXXX PROPOSED SPOT ELEVATION
- - - - - BOUNDARY
- - - - - CENTERLINE
- - - - - RIGHT-OF-WAY
- = = = = = EXISTING CURB AND GUTTER
- - - - - PROPOSED CMU SCREEN WALL

CAUTION:  
EXISTING UTILITIES ARE NOT SHOWN.  
IT SHALL BE THE SOLE RESPONSIBILITY  
OF THE CONTRACTOR TO CONDUCT ALL  
NECESSARY FIELD INVESTIGATIONS PRIOR  
TO ANY EXCAVATION TO DETERMINE THE  
ACTUAL LOCATION OF UTILITIES & OTHER  
IMPROVEMENTS.



ENGINEER'S SEAL  DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER	KIOTIS RESIDENCE 6908 RIM ROCK NW	DRAWN BY WCMJ
		DATE 2-13-17
1/13/17	GRADING AND DRAINAGE PLAN	21712-LAYOUT-2-11-17
		SHEET # —
DAVID SOULE P.E. #14522	 Rio Grande Engineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	JOB # 21712