

# CITY OF ALBUQUERQUE

Planning Department  
Suzanne Lubar, Director



Mayor Richard J. Berry

January 3, 2017

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

RE: **Lot 5, Block 3 Volcano Cliffs Unit 22**  
**6320 Camino Alto Rd NW (S.A.D. 228)**  
**Grading and Drainage Plan**  
**Engineer's Stamp Date 6-10-16 (D10D003P8)**

Dear Mr. Soule,

Based upon the information provided in your submittal received 12/27/16, this plan is approved for Grading Permit.

PO Box 1293

Prior to building Permit approval a Pad certification must be received, either by a written statement from the engineer of record or an as-built plan with spot elevations and signed by an engineer.

Albuquerque

Please attach a copy of this approved plan to the construction sets in the permitting process prior to sign-off by Hydrology. A separate permit for the wall is required. Attach this approved plan to the wall permit set.

New Mexico 87103

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

www.cabq.gov

If you have any questions, please contact me at 924-3695 or Rudy Rael at 924-3977.

Sincerely,

Abiel Carrillo, P.E.  
Principal Engineer, Hydrology  
Planning Department

RR/AC  
C: 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:**

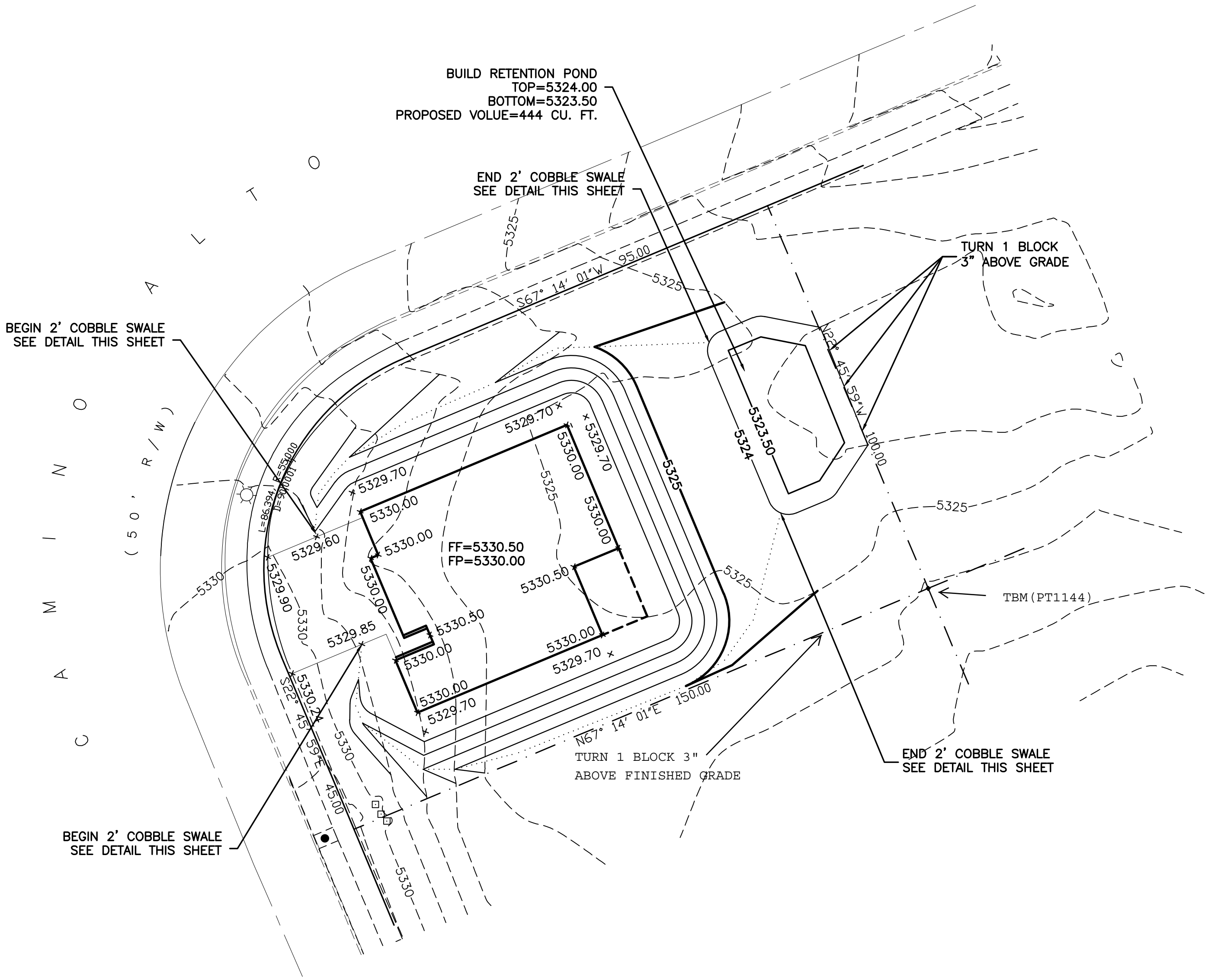
- ☐ BUILDING PERMIT APPROVAL  
☐ CERTIFICATE OF OCCUPANCY
- ☐ PRELIMINARY PLAT APPROVAL  
☐ SITE PLAN FOR SUB'D APPROVAL  
☐ SITE PLAN FOR BLDG. PERMIT APPROVAL  
☐ FINAL PLAT APPROVAL  
☐ SIA/ RELEASE OF FINANCIAL GUARANTEE  
☐ FOUNDATION PERMIT APPROVAL  
☐ GRADING PERMIT APPROVAL  
☐ SO-19 APPROVAL  
☐ 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: \_\_\_\_\_

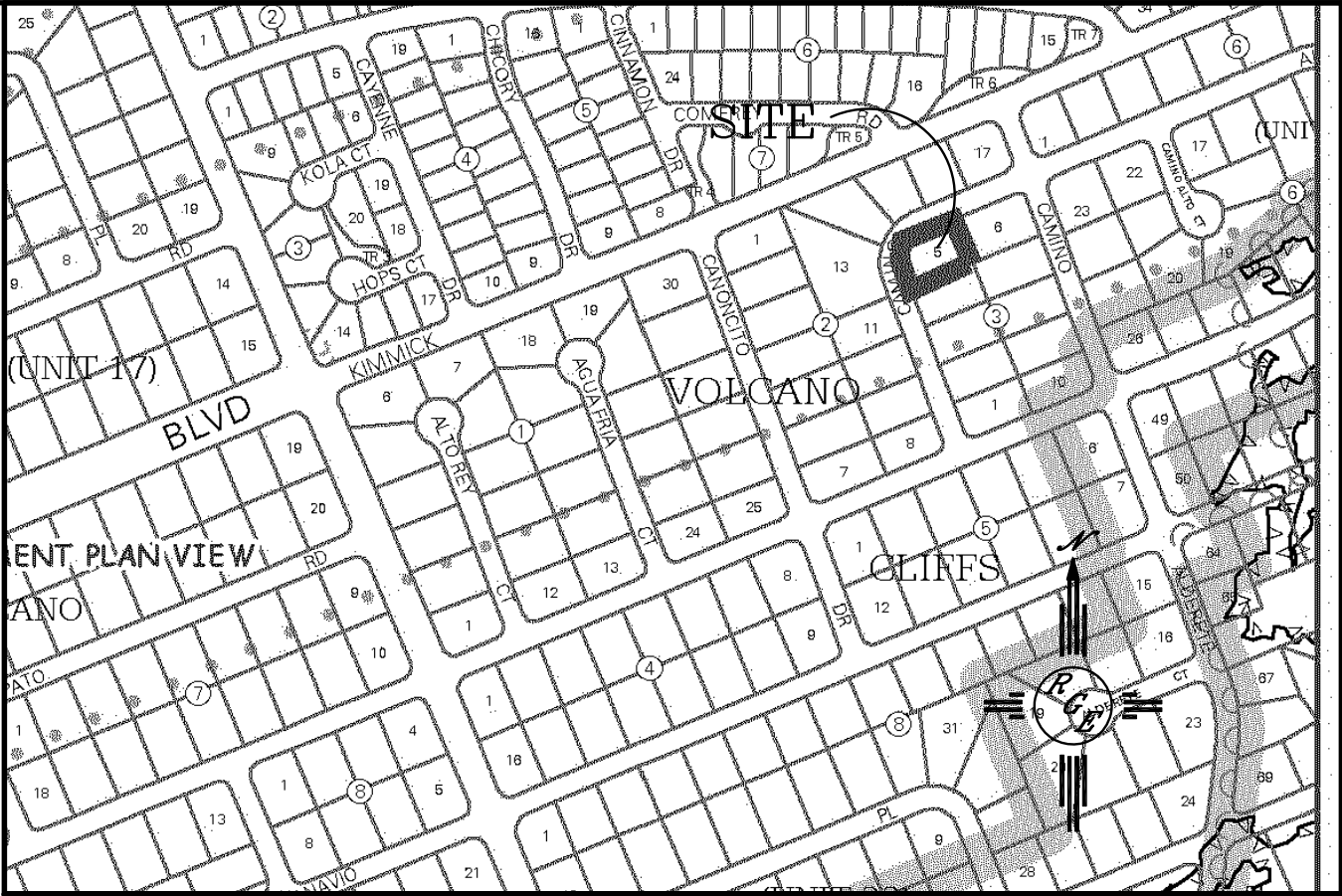
CAUTION:  
EXISTING UTILITIES ARE NOT SHOWN.  
IT SHALL BE THE SOLE RESPONSIBILITY  
OF THE CONTRACTOR TO CONDUCT ALL  
NECESSARY FIELD INVESTIGATIONS PRIOR  
TO ANY EXCAVATION TO DETERMINE THE  
ACTUAL LOCATION OF UTILITIES & OTHER  
IMPROVEMENTS.



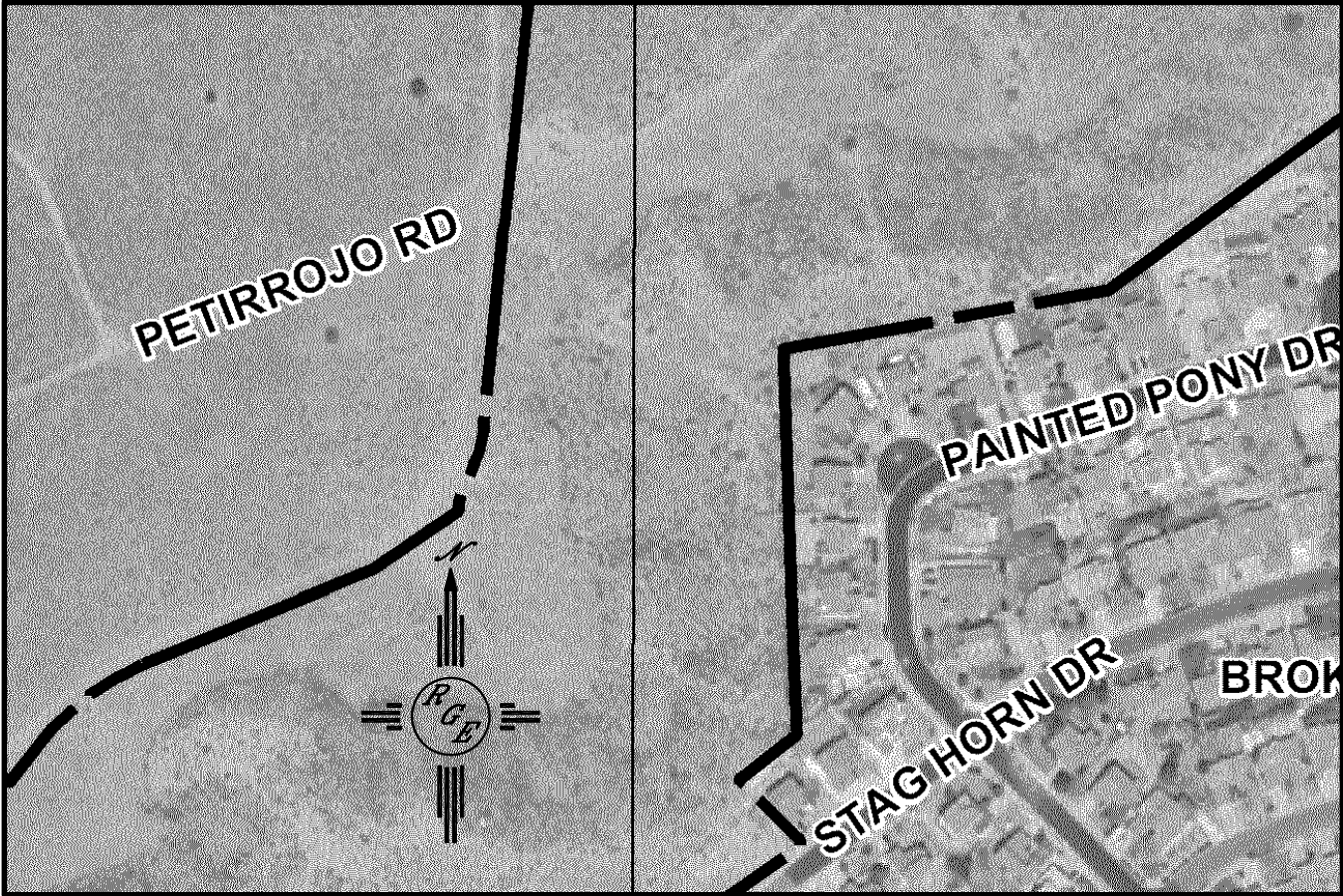
Point Table				
Point #	Elevation	Northing	Easting	Description
1144	5326.10	1518201.43	1502211.28	SRBC 2435
1145	5325.28	1518035.49	1502280.92	SRBC ILLEG
1148	5329.65	1518196.58	1502026.24	CL SAS MH
1151	5327.27	1518271.74	1502054.48	CL SAS MH

#### 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.



VICINITY MAP: D-10-Z



FIRM MAP: FM35001C0112G

#### LEGAL DESCRIPTION:

LOT 5 BLOCK 3, UNIT 22 VOLCANO CLIFFS SUBDIVISION

#### NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.
3. SURVEY PROVIDED BY ALDRICH LAND SURVEYING, BASED UPON NAVD 1988 DATUM.

#### Weighted E Method

											100-Year, 6-hr.		
Basin	Area (sf)	Area (acres)	Treatment A %	Treatment B (acres)	Treatment C %	Treatment D (acres)	Treatment E (acres)	Treatment F (acres)	Treatment G (acres)	Treatment H (acres)	Weighted (ac-ft)	Volume (ac-ft)	Flow cfs
NATIVE	14237.00	0.327	80%	0.261	10%	0.033	10%	0.0327	0%	0.000	0.518	0.014	0.50
ALLOWED	14237.00	0.327	0%	0	10%	0.033	40%	0.1307	50%	0.163	1.448	0.039	1.16
PROPOSED	14237.00	0.327	0%	0	32%	0.105	42%	0.1373	26%	0.085	1.142	0.031	0.98
total													

#### 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

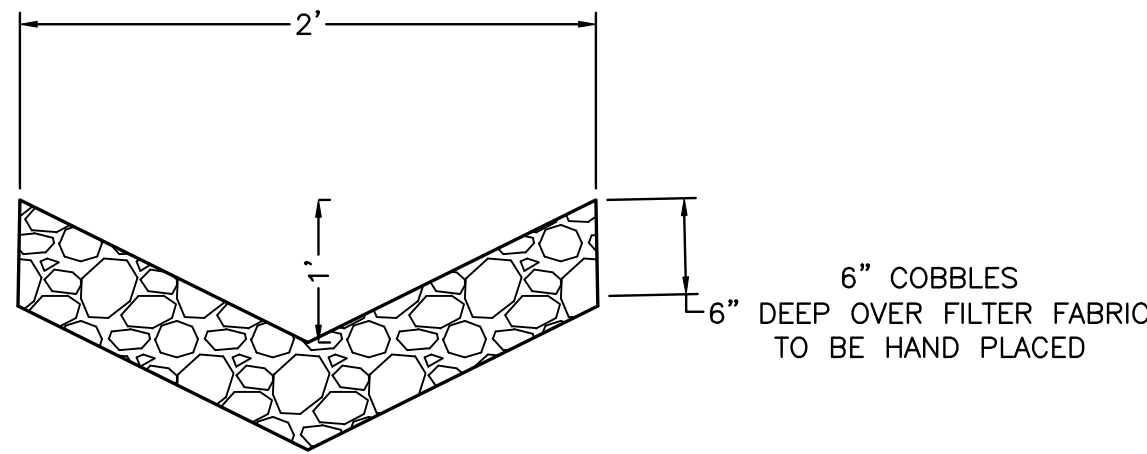
Where for 100-year, 6-hour storm- zone 1

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 VOL	
REQUIRED	PROVIDED
(CF)	(CF)
105	444
WATER QUALITY	

#### Narrative

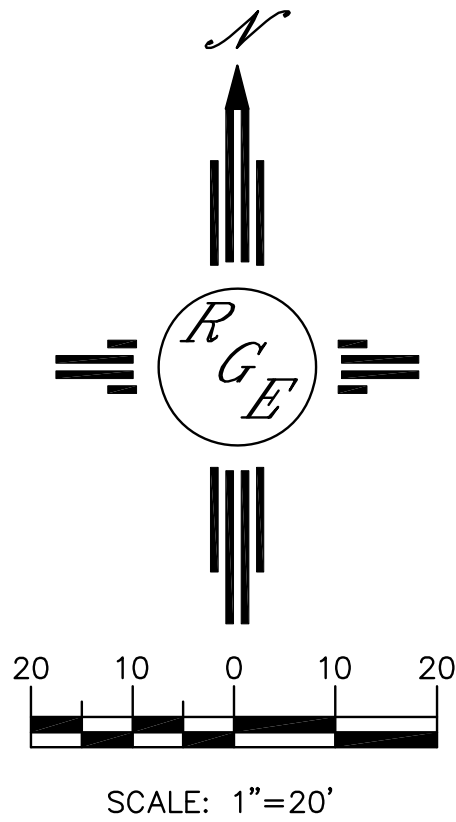
This site is within the SAD 228 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the the adjacent property per the master drainage plan. We are ponding the water harvest volume generated by the site we are allowing the upland flow to pass thru the site. This plan has a shallow water harvest pond in excess of the drainage regulations. This plan is in conformance to the masterplan



COBBLE SWALE DETAIL  
NTS

#### 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



<div>ENGINEER'S SEAL</div> <div>DAVID SOULE NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 14522</div> <div>12/27/16</div> <div>DAVID SOULE P.E. #14522</div>	6320 CAMINO ALTO	DRAWN BY WCVJ
	GRADING AND DRAINAGE PLAN	DATE 12-27-16
	<div>Rio Grande Engineering</div> <div>1806 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0888</div>	21647-LAYOUT-12-27-16
		SHEET # —
		JOB # 21647