CITY OF ALBUQUERQUE

Planning Department
Suzanne Lubar, Director



September 12, 2017

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

RE: Lot 7 Block 1 Volcano Cliffs SAD 227 6623 Rim Rock NW

Grading and Drainage Plan

Engineers Stamp Date 9/8/17 (D10D010)

Dear Mr. Soule,

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

Based upon the information provided in your submittal received 9/11/17, this plan is approved for Grading Permit.

Prior to Building permit approval a Pad Certification will be required, provided by the Engineer or a registered Land Surveyor.

Please inform the builder/owner to attach a copy of this approved plan to the construction sets in the permitting process prior to sign-off by Hydrology.

Reiterate to the Owner/Contractor that a separate permit for a garden/retaining wall must be obtained, with the approved G&D plan dated 9/8/17.

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

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

Sincerely,

James D. Hughes, **P.**E. Principal Engineer, Hydrology

Planning Department

RR/JH 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#:		k Order#:					
Legal Description:								
City Address:								
Engineering Firm:		Cont	act:					
Address:								
Phone#:	Fax#:	E-ma	ail:					
Owner:		Cont	act:					
Address:								
Phone#:	Fax#:	E-ma	ail:					
Architect:		Cont	act:					
Address:								
Phone#:	Fax#:	E-ma	ail:					
Other Contact:		Cont	act:					
Address:								
Phone#:	Fax#:	E-ma	ail:					
Check all that Apply: DEPARTMENT: HYDROLOGY/ DRAINAGE			ROVAL/ACCEPTANCE SOUGHT:					
TRAFFIC/ TRANSPORTATION		BUILDING PERMI						
MS4/ EROSION & SEDIMENT CO	NTROL	CERTIFICATE OF	OCCUPANCY					
TYPE OF SUBMITTAL:		PRELIMINARY PI	AT APPROVAL					
ENGINEER/ ARCHITECT CERTIFIC	CATION		SITE PLAN FOR SUB'D APPROVAL					
		SITE PLAN FOR B	LDG. PERMIT APPROVAL					
CONCEPTUAL G & D PLAN		FINAL PLAT APP	FINAL PLAT APPROVAL					
GRADING PLAN		SIA/ RELEASE OF	SIA/ RELEASE OF FINANCIAL GUARANTEE					
DRAINAGE MASTER PLAN		FOUNDATION PE	FOUNDATION PERMIT APPROVAL					
DRAINAGE REPORT		GRADING PERMI	GRADING PERMIT APPROVAL					
CLOMR/LOMR		SO-19 APPROVAL	SO-19 APPROVAL					
		PAVING PERMIT						
TRAFFIC CIRCULATION LAYOU	Γ (TCL)		APPROVAL					
TRAFFIC CIRCULATION LAYOUT TRAFFIC IMPACT STUDY (TIS)	Γ (TCL)	PAVING PERMIT	APPROVAL ERTIFICATION					
		PAVING PERMIT GRADING/ PAD C	APPROVAL ERTIFICATION					
TRAFFIC IMPACT STUDY (TIS)	L PLAN (ESC)	PAVING PERMIT GRADING/ PAD C WORK ORDER APP	APPROVAL ERTIFICATION ROVAL					
TRAFFIC IMPACT STUDY (TIS) EROSION & SEDIMENT CONTRO	L PLAN (ESC)	PAVING PERMIT GRADING/ PAD C WORK ORDER APP CLOMR/LOMR PRE-DESIGN MEET	APPROVAL ERTIFICATION ROVAL ING					
TRAFFIC IMPACT STUDY (TIS) EROSION & SEDIMENT CONTRO	L PLAN (ESC)	PAVING PERMIT GRADING/ PAD C WORK ORDER APP CLOMR/LOMR PRE-DESIGN MEET	APPROVAL ERTIFICATION ROVAL					
TRAFFIC IMPACT STUDY (TIS) EROSION & SEDIMENT CONTRO OTHER (SPECIFY)	L PLAN (ESC)	PAVING PERMIT GRADING/ PAD C WORK ORDER APP CLOMR/LOMR PRE-DESIGN MEET OTHER (SPECIFY	APPROVAL ERTIFICATION ROVAL ING					

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: ____

Weighted E Method

									100-Year, 6-hr.				
Basin	Area	Area	Treat	ment A	Treat	ment B	Treati	ment C	Treatr	ment DV	Veighted I	Volume	Flow
	(sf)	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	(ac-ft)	(ac-ft)	cfs
ALLOWED	13799.00	0.317	0%	0	26%	0.082	40%	0.1267	34%	0.108	1.240	0.033	1.00
PROPOSED	13799.00	0.317	0%	0	37%	0.117	39%	0.1235	39%	0.124	1.402	0.037	1.13
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

Qa= 1.29 Qb= 2.03 Eb= 0.67 Ec= 0.99Qc= 2.87 Ed= 1.97 Qd= 4.37

ONSITE Conditions PONDING REQUIREMENTS

REQUIRED

(CF) (CF) 152 187 612 WATER QUALITY FLOOD CONTROL 612

Narrative

This site is within the SAD 227 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the the adjacent roadway 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. The site is not impacted by upland flows. This plan generate flow in excess of master drainage plan developed conditions assumption. Therefor the excess is retained

PROVIDED



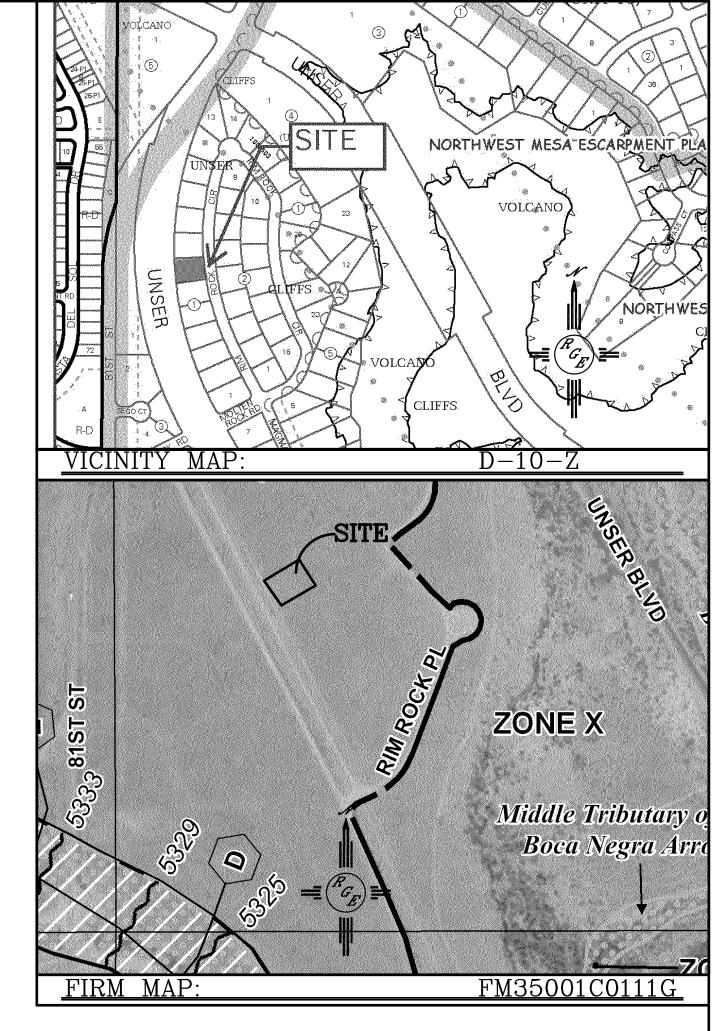
1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.

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.



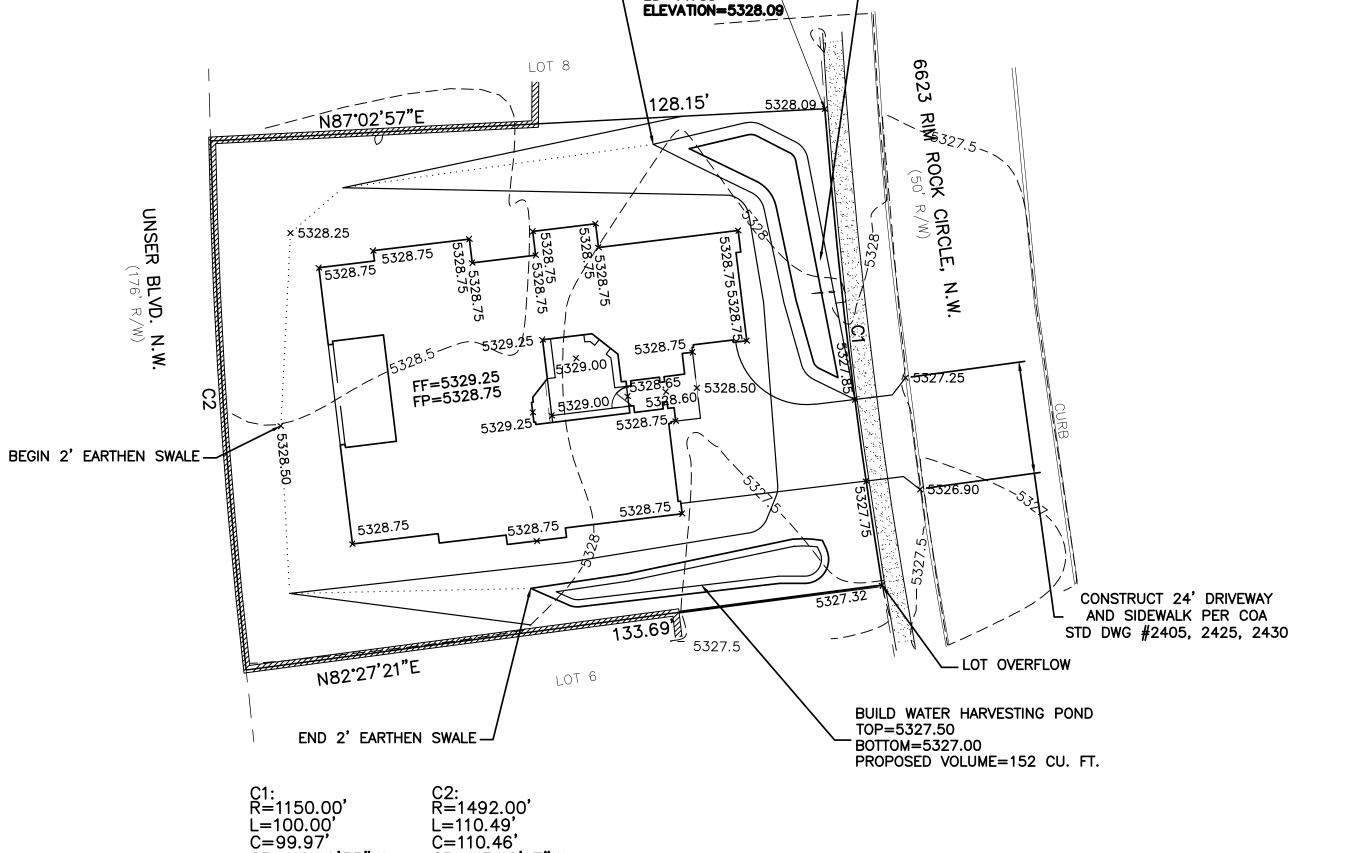
LEGAL DESCRIPTION: LOT 7, BLOCK 1 UNSER CLIFFS SUBDIVISION

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE

2. ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.

3. ANY PERIMETER WALLS MUST BE PERMITED SEPARATELY. ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.



FND REBAR/CAP

LS "14733"

END 2' EARTHEN SWALE -

USER BLVD. N.

CB=N6°49'35"W ?=4°58'56"

CB=N3°48'17"W ?=4°14'34"

BUILD FIRST FLUSH POND

PROPOSED VOLUME=460 CU. FT.

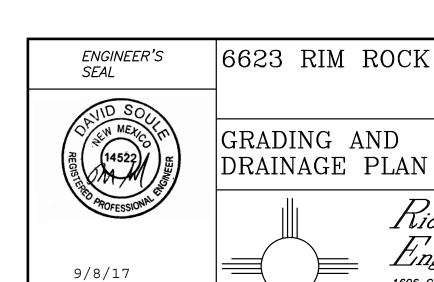
TOP=5327.85 BOTTOM=5327.00

LEGEND

---- EXISTING CONTOUR ---- EXISTING INDEX CONTOUR — PROPOSED INDEX CONTOUR SLOPE TIE EXISTING SPOT ELEVATION * XXXX × XXXX PROPOSED SPOT ELEVATION BOUNDARY CENTERLINE — RIGHT—OF—WAY

 $\equiv \equiv \text{EXISTING CURB AND GUTTER}$ PROPOSED CMU SCREEN WALL 0'-3' MAX RETAINAGE (DESIGN BY OTHERS)

SCALE: 1"=20'



DAVID SOULE P.E. #14522

GRADING AND DRAINAGE PLAN

Rio Grande Lingineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999

DRAWN

BY WCWJ

DATE 9-07-17

21795-LAYOUT-9-07-1

SHEET #

JOB #

21795

IMPROVEMENTS.

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