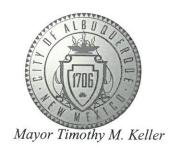
CITY OF ALBUQUERQUE

Planning Department
David Campbell, Director



March 15, 2019

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

RE: Lot 9 Block 8, Volcano Cliffs, Unit 22, SAD 228 6324 Canavio NW Grading and Drainage Plan Engineers Stamp Date 3/11/19 (D10D003E9)

Dear Mr. Soule,

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

Based upon the information provided in your submittal received 3/11/19, 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 and letter 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 and Pad Certification.

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

If you have any questions, please contact me at 924-3986 or Rudy Rael at 924-3977.

Sincerely,

lanl D

James D. Hughes, P.E.

Principal Engineer, Hydrology

Planning Department

RR/JDH

C: File D10D003E10



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: 6324 CANAVIO	Building Permit #:	Hydrology File #: Work Order#:	
DRB#:	EPC#:	Work Order#:	
Legal Description: LOT 9 , BLOCK	8 VOLCANO CLIFE	FS UNIT 22	
City Address:			
Applicant: SILVERTON HOMES		Contact:	
Address: 6324 CANAVIO			
		E-mail:	
		Contact: DAVID SOULE	
Address: PO BOX 93924 ALB NM		Contact:Contact:	
		david@riograndeengine	ering go
		E-mail: david@riograndeenginee	er ring.com
TYPE OF DEVELOPMENT:PLAT	X RESIDENCE	DRB SITE ADMIN SITE	
Check all that Apply:			
DEPARTMENT:	TVPF	E OF APPROVAL/ACCEPTANCE SOUGHT:	
X HYDROLOGY/ DRAINAGE		BUILDING PERMIT APPROVAL	
TRAFFIC/ TRANSPORTATION		CERTIFICATE OF OCCUPANCY	
TYPE OF SUBMITTAL:			
ENGINEER/ARCHITECT CERTIFICATION	N I	PRELIMINARY PLAT APPROVAL	
PAD CERTIFICATION		SITE PLAN FOR SUB'D APPROVAL	
CONCEPTUAL G & D PLAN	9	SITE PLAN FOR BLDG. PERMIT APPROVAL	
X GRADING PLAN	I	FINAL PLAT APPROVAL	
DRAINAGE REPORT			
DRAINAGE MASTER PLAN		SIA/ RELEASE OF FINANCIAL GUARANTEE	
FLOODPLAIN DEVELOPMENT PERMIT	APPLIC F	FOUNDATION PERMIT APPROVAL	
ELEVATION CERTIFICATE	(GRADING PERMIT APPROVAL	
CLOMR/LOMR		SO-19 APPROVAL	
TRAFFIC CIRCULATION LAYOUT (TCI		PAVING PERMIT APPROVAL	
TRAFFIC IMPACT STUDY (TIS)	-/ <u></u>	GRADING/PAD CERTIFICATION	
STREET LIGHT LAYOUT		WORK ORDER APPROVAL	
OTHER (SPECIFY)		CLOMR/LOMR	
PRE-DESIGN MEETING?		FLOODPLAIN DEVELOPMENT PERMIT	
IS THIS A RESUBMITTAL?: YesX1	No(OTHER (SPECIFY)	
DATE SUBMITTED:	By:	***************************************	
COA STAFF:		L RECEIVED:	

FEE PAID:_____

Weighted E Method

												100-Year	r, 6-hr.
Basin	Area	Area	Treat	ment A	Treat	ment B	Treati	ment C	Treatr	ment D	Weighted E	Volume	Flow
	(sf)	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	(ac-ft)	(ac-ft)	cfs
ALLOWED	12050.00	0.277	0%	0	20%	0.055	46%	0.1272	34%	0.094	1.259	0.029	0.89
PROPOSED	12050.00	0.277	0%	0	20%	0.055	34%	0.0941	46%	0.127	1.377	0.032	0.94
COMPARISON												0.003	

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

FLOOD CONTROL

FIRST FLUSH WATER QUALITY VOLUME PROVIDED REQUIRED (CF) 157 (CF) WATER QUALITY 157

Narrative

This site is within the SAD 226 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the the adjacent roadway to the south per the master drainage plan. We are ponding the water harvest volume generated by the site

MATCH EX

FL=29.85+/-

FF=5332.50

FP=5332.00

+ 31.29

SITE TBM

33FU=30.45+/-

MH RIM=5331.58

CMU SCREEN WALL WITH 2' MAX RETAINAGE

FIRST FLUSH POND

TOP=30.85 BOTTOM=29.35 VOLUME=85 CF LOT OUTFALLS 3828.76

FIRST FLUSH POND

CMU SCREEN WALL

WITH 2' MAX RETAINAGE

/31.00

TOP=29.65

BOTTOM=28.65

VQLUME≠72 CF

EL=29.65

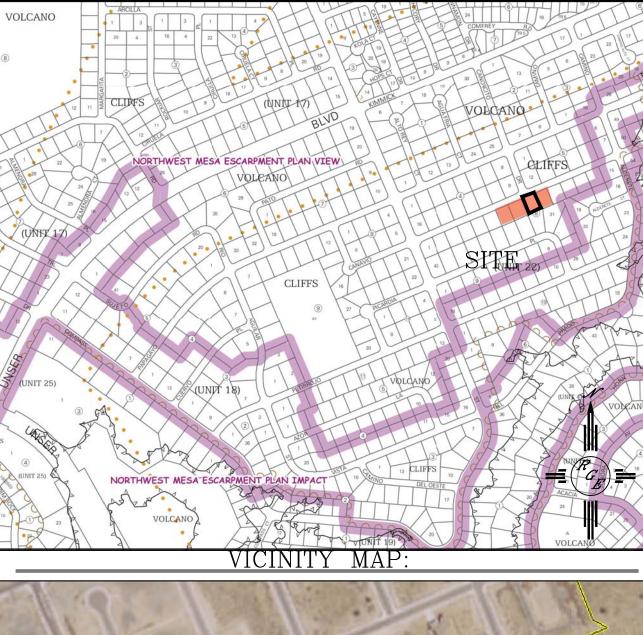
there is not measurable upland flow. This plan does not exceed the allowed impervious area therefore we are notrrequired to retain. This plan is in conformance to the master drainage plan

157

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 9, BLOCK 8, UNIT 22, VOLCANO CLIFFS SUBDIVISION

NOTES:

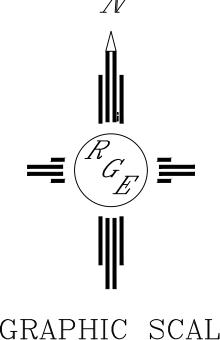
- 1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE
- 2. TOPOGRAPHIC SURVEY INFORMATION SHOWN ON THIS PLAN WAS OBTAINED BY CSTI DATED MARCH 2019
- 3.. ALL DISTURBED AREAS MUST BE RESEED OR LANDSCAPED PRIOR TO FINAL C.O.. ALL AREAS OUTSIDE THE BUILDING ENVELOPE MUST BE RESEED WITH NATIVE MIX 4. DUE TO EXISTING TOPOGRAPHY AND UNDEVELOPED NATURE OF THE DOWN STEAM AREA, PERIODIC MAINTENANCE OF PONDS AND SWALES ARE REQUIRED.
- 5. ALL WALLS SHALL BE PERMITTED SEPARATELY AND MUST CONFORM TO THIS PLAN
- 6. PAD ELEVATION CERTIFICATION REQUIRED PRIOR TO PERMIT

LEGEND

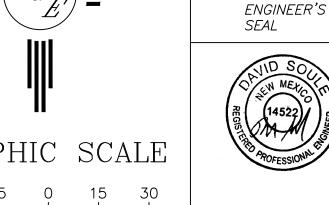
---- EXISTING CONTOUR — — 5410— — EXISTING INDEX CONTOUR —5411———— PROPOSED CONTOUR ----- PROPOSED INDEX CONTOUR PROPOSED FLOWLINE ELEVATIONS PROPERTY LINE

DRAINAGE FLOW LINE

JOB #



SCALE: 1"=30'



LOT 9, BLOCK 8, UNIT 11 **VOLCANO CLIFFS** 03-09-2019 GRADING AND DRAINAGE PLAN SHEET # Rio Grande 1 OF 1 Lingineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999

GRAPHIC SCALE

3/11/19 DAVID SOULE P.E. #14522