CITY OF ALBUQUERQUE

Planning Department Suzanne Lubar, Director



May 10, 2017

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

RE: Lot 15 Block 4 Unit 22 Volcano Cliffs SAD 228 6423 Canavio St NW Grading and Drainage Plan Engineers Stamp Date 4/27/17 (D10D003D15)

Dear Mr. Soule,

Based upon the information provided in your submittal received 5/9/17, this plan is approved for Grading Permit. <u>Prior to building permit approval the following</u> comments must be addressed.

PO Box 1293

- Provide a pad certification.
- Provide an opening at the NW corner of the property, 3" above grade.

sets in the permitting process prior to sign-off by Hydrology. Reiterate to the

Albuquerque

New Mexico 87103

www.cabq.gov

Owner/Contractor that a separate permit for a garden/retaining wall must be obtained, with the approved G&D plan dated 4/27/17. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist of

Please inform the builder/owner to attach a copy of this approved plan to the construction

this plan will be required.

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

Sincerely,

Hufler

James D. Hughes, P.B. Principal Engineer, Hydrology Planning Department

RR/JH C: File

Albuquerque - Making History 1706-2006



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:			
TRAFFIC/ TRANSPORTATION MS4/ EROSION & SEDIMENT CONTROL		BUILDING PERMIT APPROVAL CERTIFICATE OF OCCUPANCY			
TYPE OF SUBMITTAL:					
ENGINEER/ ARCHITECT CERTIFICATION		RY PLAT APPROVAL FOR SUB'D APPROVAL			
		FOR BLDG. PERMIT APPROVAL			
CONCEPTUAL G & D PLAN	FINAL PLAT				
GRADING PLAN		SE OF FINANCIAL GUARANTEE			
DRAINAGE MASTER PLAN	FOUNDATIO	ON PERMIT APPROVAL			
DRAINAGE REPORT	GRADING P	GRADING PERMIT APPROVAL			
CLOMR/LOMR	SO-19 APPR	OVAL			
TRAFFIC CIRCUITATION LAVOUT (TOL)		RMIT APPROVAL			
TRAFFIC CIRCULATION LAYOUT (TCL) TRAFFIC IMPACT STUDY (TIS)		PAD CERTIFICATION			
EROSION & SEDIMENT CONTROL PLAN (ESC)	WORK ORDE				
	CLOMR/LON	/IK			
OTHER (SPECIFY)	PRE-DESIGN	MEETING			
	OTHER (SPE	ECIFY)			
IS THIS A RESUBMITTAL?: Yes No					
DATE SUBMITTED:By: _					

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: ____

						Weigh	ted E I	Method					
												100-Yea	ar, 6-hr.
Basin	Area	Area	Treat	ment A	Treat	ment B	Treat	ment C	Treat	ment DV	Veighted I	Volume	Flow
	(sf)	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	(ac-ft)	(ac-ft)	cfs
UPLAND	19183.00	0.440	0%	0	10%	0.044	40%	0.1762	50%	0.220	1.448	0.053	1.56
ALLOWED	13730.00	0.315	0%	0	10%	0.032	40%	0.1261	50%	0.158	1.448	0.038	1.11
PROPOSED	13730.00	0.315	0%	0	30%	0.095	33%	0.104	37%	0.117	1.257	0.033	1.00
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

- zone 1	
a= 0.44	Qa= 1.29
b= 0.67	Qb= 2.03
c= 0.99	Qc= 2.87
d= 1.97	Qd= 4.37
VOLUME	
	PROVIDED
	(CF)
144	621
	- zone 1 a= 0.44 b= 0.67 c= 0.99 d= 1.97 VOLUME REQUIRED (CF)

Narrative

This site is within the SAD 228 Master Drainage plan boundaries. The site is designed to drain the house and side yard to the street. The rear yard is too low to drain to the street and but ponding and swales will provide positive drainage from house and allow patterns per the master drainage plan. We are ponding the water harvest volume generated by the site. We are allowing the upland flow to enter the site. This plan has shallow water harvest ponds in excess of the drainage regulations. This plan is in conformance to the master drainage plan

TURNED BLOCKS

Weir Equation:

 $Q=CLH^{3/2}$

wale thru walls

Q= 2.92 cfs C = 2.95 H = 0.5 ft

L = Length of weir $Q = 2.95 * .5 * ((0.5)^{(3/2)})$

Each opening is 6"x6" Each block has two openings

Each opening has .52 cfs capacity, Therefore each turned block has 1.04 cfs capacity

BUILD FIRST FLUSH POND **TOP=**5341.75 BOTTOM=5341.25 **PROPOSED VOLUME=** 185 CU. FT. END 2' EARTHEN SWALE -

		BENCHMA	RKS	
Point #	Elevation	Northing	Easting	Des
1	5339.65	1517207.83	1501262.49	
2	5341.31	1517245.70	1501354.68	
3	5341.75	1517076.11	1501376.92	P
1877	5338.35	1517003.56	1501204.21	CL.
1078	5345.65	1517139.54	1501529.46	CL.

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.

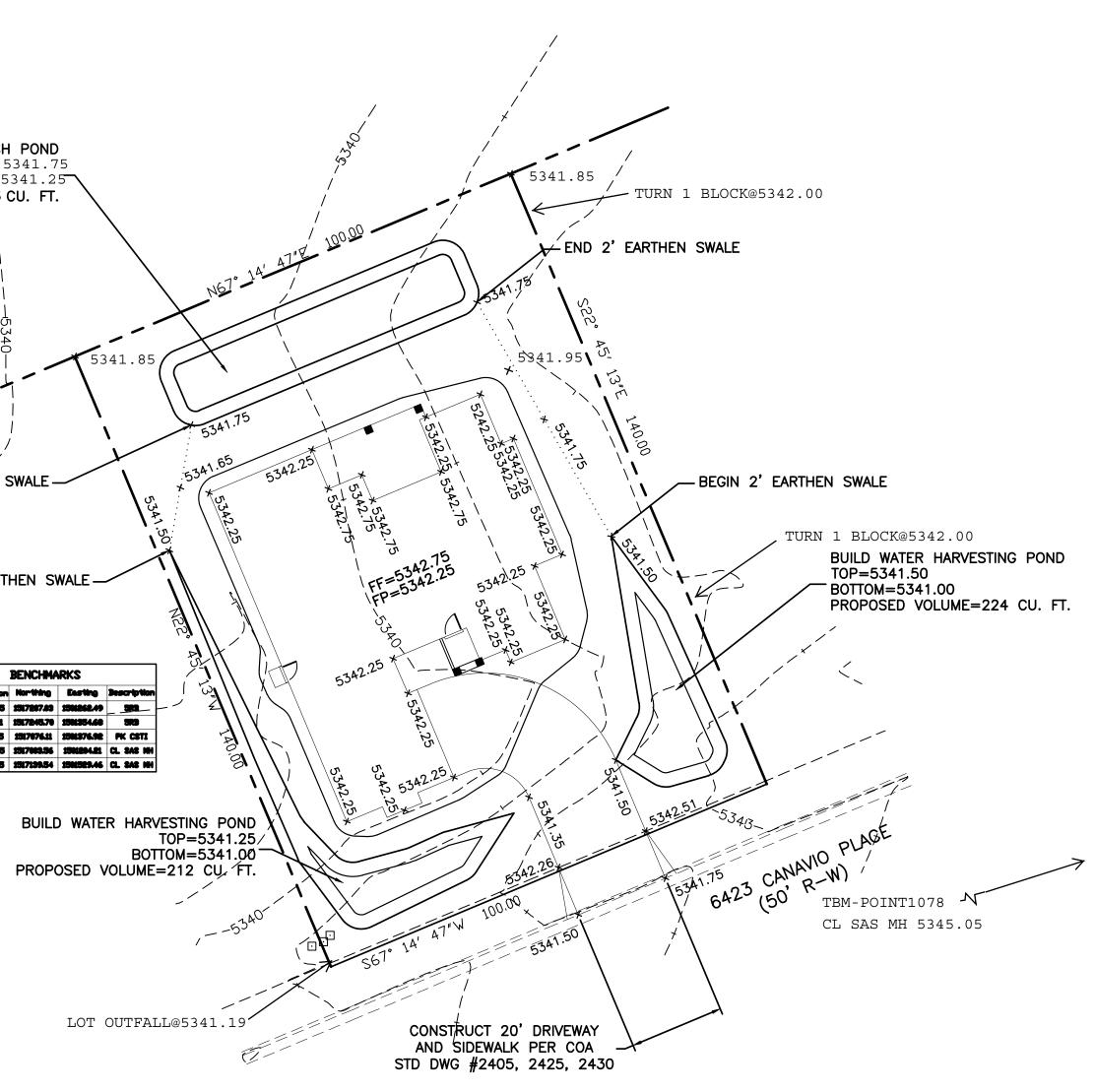
EROSION CONTROL NOTES: 1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.

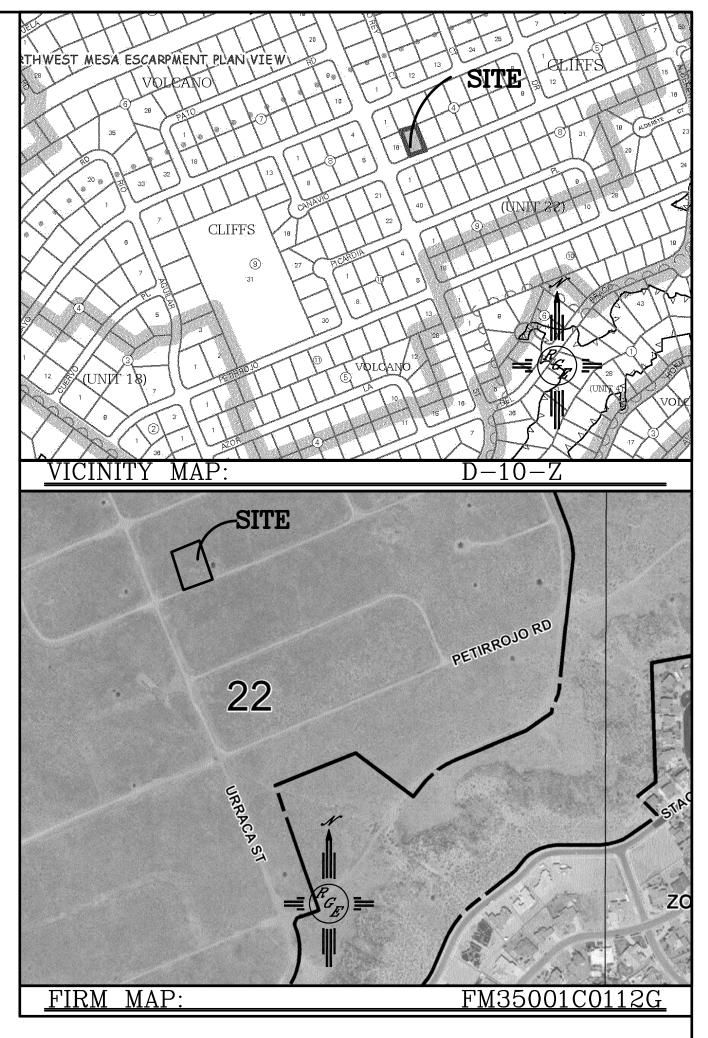
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.

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.





LEGAL DESCRIPTION: LOT 15 BLOCK 4 UNIT NO. 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. ANY PERIMETER WALLS MUST BE PERMITED SEPARATELY. ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.

4. A PAD CERTIFICATION IS REQUIRED PRIOR TO ISSUANCE OF BUILDING PERMIT

LEGEND

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

