CITY OF ALBUQUERQUE

Planning Department



Mayor Timothy M. Keller

January 4, 2018

Jackie McDowell, PE McDowell Engineering, Inc. 7820 Beverly Hills Ave NE Albuquerque, NM 87121

RE: Lot 6 Block 4 Unit 18, S.A.D. 228

Volcano Cliffs Subdivision 6600 Papagayo Rd NW Grading and Drainage Plan

Engineers Stamp Date 1/2/18 (D10D003J6)

Dear Ms. McDowell,

Based upon the information provided in your submittal received 1/03/18, this plan is approved for Grading Permit.

PO Box 1293

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

Albuquerque

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 1/2/18.

NM 87103

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

www.cabq.gov

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

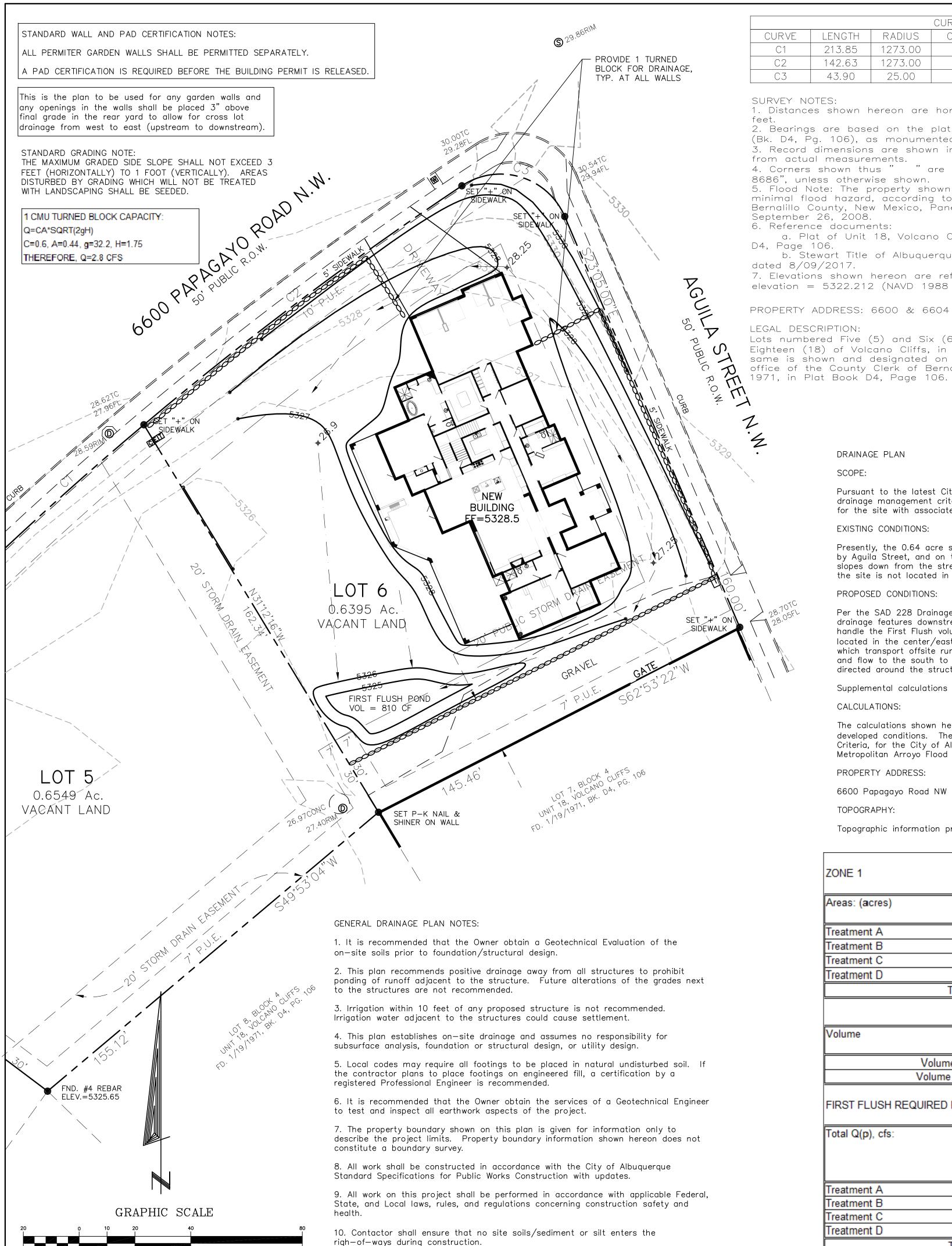
Sincerely,

James D. Hughes, P.E.

Principal Engineer, Hydrology

Planning Department

RR/JDH C: File



11. Areas disturbed due to construction shall be restored per City of Albuquerque

Spec. 1012 native seed mix.

CURVE TABLE							
CURVE	LENGTH	RADIUS	CHORD BEARING	CHORD	DELTA		
C1	213.85	1273.00	S45°03'52"W	213.60	9°37'30"		
C2	142.63	1273.00	S53°05'13"W	142.56	6°25'11"		
С3	43.90	25.00	N73°23'36"W	38.48	100°37′12"		

1. Distances shown hereon are horizontal ground distances in US Survey

2. Bearings are based on the plat of Unit 18, Volcano Cliffs Subdivision (Bk. D4, Pg. 106), as monumented by found corners.

3. Record dimensions are shown in parenthesis (), where record differs from actual measurements. 4. Corners shown thus " " are #4 rebar w/cap stamped "G. Gritsko, PS

8686", unless otherwise shown. 5. Flood Note: The property shown hereon is located in Zone X, areas of minimal flood hazard, according to the Flood Insurance Rate Map of Bernalillo County, New Mexico, Panel No. 35001C0111G, effective date

6. Reference documents: a. Plat of Unit 18, Volcano Cliffs Subdivision, filed 1/19/1971, Bk.

b. Stewart Title of Albuquerque LLC commitment No. 01147-40512, dated 8/09/2017.

7. Elevations shown hereon are referenced to "ACS BM 14-D10". Published elevation = 5322.212 (NAVD 1988 datum).

PROPERTY ADDRESS: 6600 & 6604 Papagayo Road NW, Albuquerque, NM

LEGAL DESCRIPTION:

Lots numbered Five (5) and Six (6) in Block numbered Four (4), in Unit Eighteen (18) of Volcano Cliffs, in Bernalillo County, New Mexico, as the same is shown and designated on the Plat of said Addition, filed in the office of the County Clerk of Bernalillo County, New Mexico, on January 19,

PANEL #111G FEMA FLOODWAY MAP VICINITY MAP ZONE ATLAS D-10

DRAINAGE PLAN

SCOPE:

Pursuant to the latest City of Albuquerque and Bernalillo County Ordinances, the Drainage Plan shown hereon outlines the drainage management criteria for controlling developed runoff on and exiting the project site. A single family home is proposed for the site with associated parking, access, landscaping, and utility improvements.

EXISTING CONDITIONS:

Presently, the 0.64 acre site is undeveloped. The site is bounded on the northwest by Papagayo Road NW, on the northeast by Aguila Street, and on the southeast and southwest by private property. The site is relatively level in the center, after it slopes down from the streets, and has a gentle slope from the northeast to the southwest. As shown on FEMA Panel #111G, the site is not located in a 100 year flood plain.

PROPOSED CONDITIONS:

Per the SAD 228 Drainage Report by Wilson & Company, drainage from the lots has been master planned to be intercepted by drainage features downstream of the properties. Current COA Drainage Ordinance requires that ponds must be provided to handle the First Flush volume which has been calculated and is included on this plan. As shown by the plan, the building is located in the center/easterly portion of the lot. No off-site flows enter the site due to existing grades on adjacent streets which transport offsite runoff through public streets around the site. On site flows will drain around the structure via swales, and flow to the south to the first flush retention pond. All roof drainage will discharge from the roof to the lot and be directed around the structure to the drainage paths and pond.

Supplemental calculations are shown as part of this Grading and Drainage plan.

CALCULATIONS:

The calculations shown hereon define the 100 year—6 hour design storm falling within the project area under existing and developed conditions. The Hydrology is per "Section 22.2, Hydrology of the Development Process Manual, Volume 2, Design Criteria, for the City of Albuquerque, New Mexico in cooperation with Bernalillo County, New Mexico and the Albuquerque Metropolitan Arroyo Flood Control Authority.

PROPERTY ADDRESS:

6600 Papagayo Road NW

TOPOGRAPHY:

Topographic information provided by Gary Gritsko dated August, 2017.

ZONE 1

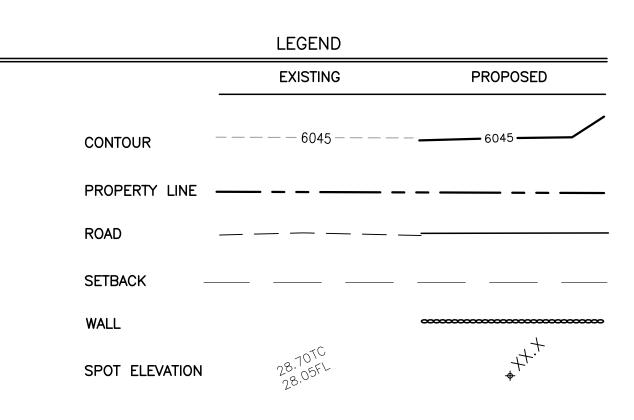
Areas: (acres)		
	Existing	Proposed
Treatment A	0.64	0.00
Treatment B	0.00	0.45
Treatment C	0.00	0.00
Treatment D	0.00	0.19
Total (acres) =	0.64	0.64

POND VOLUME PROVIDED:						
ELEV.	AREA	VOL. (CF)				
5326	1106					
		810				
5325	514					

Volume	100 year	100 year	10 year	10 year	2 year	2 year
	Existing	Proposed	Existing	Proposed	Existing	Proposed
Volume (acre-feet) =	0.023	0.056	0.004	0.028	0.000	0.012
Volume (cubic feet) =	1,022	2,453	186	1,215	0	513

FIRST FLUSH REQUIRED POND VOL = 0.34"/(12"/FT)*(0.64 AC * 43560 SF/AC) = 790 CF

Total Q(p), cfs:						
	100 year	100 year	10 year	10 year	2 year	2 year
	Existing	Proposed	Existing	Proposed	Existing	Proposed
	Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A
Treatment A	0.83	0.00	0.15	0.00	0.00	0.00
Treatment B	0.00	0.91	0.00	0.34	0.00	0.01
Treatment C	0.00	0.00	0.00	0.00	0.00	0.00
Treatment D	0.00	0.83	0.00	0.55	0.00	0.32
Total Q (cfs) =	0.83	1.74	0.15	0.89	0.00	0.33





ENGINEER'S CERTIFICATION:

I, Jackie S. McDowell, hereby certify that I personally inspected the site shown on this plan on December 5, 2017 and as of that date it appeared that no filling, grading, or excavation had occurred thereon since completion of the topographic survey used to prepare this plan.

CITY OF ALBUQUERQUE, BERNALILLO COUNTY

LOT 6, BLOCK 4, UNIT 18 VOLCANO CLIFFS SUBDIVISION

NEW MEXICO

PECK (BUILDER: MICHAEL SANCHEZ) - GRADING & DRAINAGE PLAN

McDowell Engineering, 9nc.

TELE: 505-828-2430 • FAX: 505-821-4857 Drawn STAFF DECEMBER,2017 PEC0117L

(IN FEET)

1 inch = 20 ft.