# CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



Mayor Timothy M. Keller

December 24, 2019

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

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

> 6616 Kimmick Rd. NW Grading and Drainage Plan

**Engineers Stamp Date 12/23/19 (D10D003M4)** 

Ms. McDowell,

Based upon the information provided in your submittal received 12/24/19, 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.

NM 87103

Reiterate to the Owner/Contractor that a separate permit for a garden/retaining wall must be obtained, with the approved G&D plan dated 10/28/19.

www.cabq.gov

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 924-3999 or Rudy Rael at 924-3977.

Sincerely,

Shahab Biazar, P.E. City Engineer, Planning Division Manager

RR/SB

C: D10S003M4



# City of Albuquerque

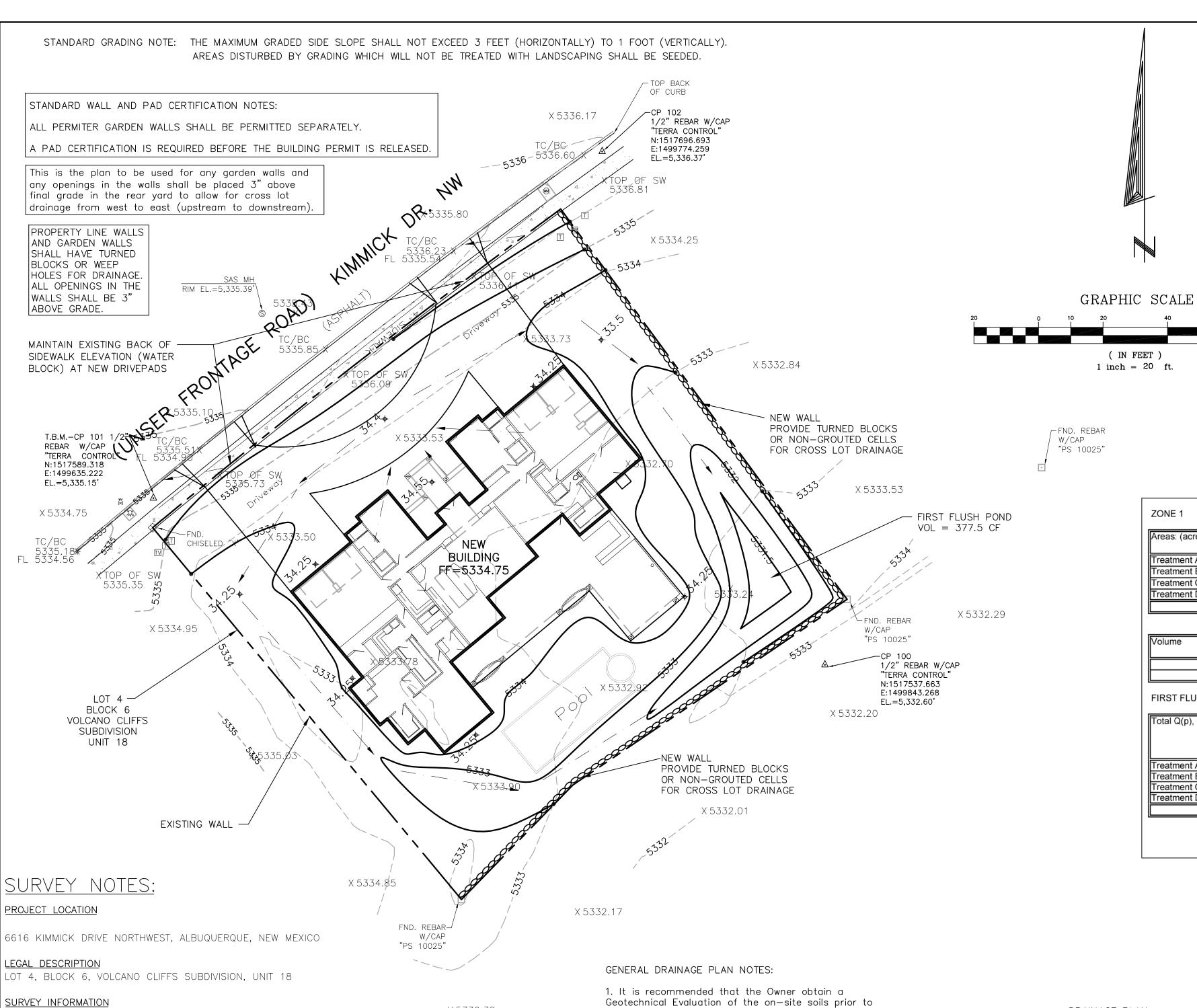
#### Planning Department

#### Development & Building Services Division

#### DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: Building P		rmit #: Hydrology File #: _	
DRB#:			
Legal Description:			
City Address:			
Applicant:			Contact:
Address:			
Phone#:	Fax#:		E-mail:
Other Contact:			Contact:
Address:			
Phone#:			
TYPE OF DEVELOPMENT:	PLAT (# of lots)	RESIDENCE	DRB SITE ADMIN SI
IS THIS A RESUBMITTAL?	Yes No		
DEPARTMENT TRANSPO	RTATIONHY	DROLOGY/DRAINAC	GE
TYPE OF SUBMITTAL:  ENGINEER/ARCHITECT CERTIFICATION  PAD CERTIFICATION  CONCEPTUAL G & D PLAN  GRADING PLAN  DRAINAGE REPORT  DRAINAGE MASTER PLAN  FLOODPLAIN DEVELOPMENT PERMIT APPLIC  ELEVATION CERTIFICATE  CLOMR/LOMR  TRAFFIC CIRCULATION LAYOUT (TCL)  TRAFFIC IMPACT STUDY (TIS)  STREET LIGHT LAYOUT  OTHER (SPECIFY)  PRE-DESIGN MEETING?		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  FLOODPLAIN DEVELOPMENT PERMIT  OTHER (SPECIFY)	

FEE PAID:\_\_\_\_\_



X 5332.38

PANEL #111G FEMA FLOODWAY MAP ZONE 1 Areas: (acres) POND VOLUME PROVIDED: AREA VOL. (CF) 5332 1264 Treatment A Treatment E Treatment C 5331.5 Treatment D Total (acres) = ADDED TYPE C AMOUNT FIRST FLUSH REQUIRED POND VOL = 0.34"/(12"/FT)\*(0.25 AC \* 43560 SF/AC) = 309 CF Total Q(p), cfs: 00 year I00 year Existing Existing Existing Proposed Proposed **IProposed** A\*(a)C Treatment A Treatment E Treatment

LEGEND **EXISTING** PROPOSED -----SPOT ELEVATION X 5333.53

ZONE ATLAS D-10

Geotechnical Evaluation of the on-site soils prior to foundation/structural design.

2. This plan recommends positive drainage away from all structures to prohibit ponding of runoff adjacent to the structure. Future alterations of the grades next to the structures are not recommended.

3. Irrigation within 10 feet of any proposed structure is not recommended. Irrigation water adjacent to the structures could cause settlement.

4. This plan establishes on—site drainage and assumes no responsibility for subsurface analysis, foundation or structural design, or utility design.

5. Local codes may require all footings to be placed in natural undisturbed soil. If the contractor plans to place footings on engineered fill, a certification by a registered Professional Engineer is recommended.

6. It is recommended that the Owner obtain the services of a Geotechnical Engineer to test and inspect all earthwork aspects of the project.

7. The property boundary shown on this plan is given for information only to describe the project limits. Property boundary information shown hereon does not constitute a boundary survey.

8. All work shall be constructed in accordance with the City of Albuquerque Standard Specifications for Public Works Construction with updates.

9. All work on this project shall be performed in accordance with applicable Federal, State, and Local laws, rules, and regulations concerning construction safety and health.

10. Contactor shall ensure that no site soils/sediment or silt enters the righ-of-ways during construction.

11. Areas disturbed due to construction shall be restored per City of Albuquerque Spec. 1012 native

## DRAINAGE PLAN

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 0.53 acre site is undeveloped. The site is bounded on the northwest by Unser Frontage Rd/Kimmick Dr. NW and on the northeast, southeast, and southwest by private property. The site is relatively level in the center and has a gentle slope from the northwest to the southeast. Site topography slopes to the southeast. 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 have 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 of the lot. No off—site flows enter the site due to existing grades on adjacent lots which transport offsite runoff to public streets around the site. On site flows will drain around the structure via swales, and flow to the southeast 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:

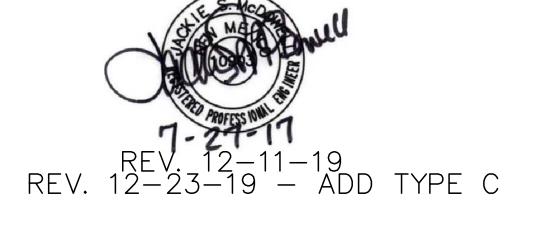
The calculations shown hereon define the 100 year—6 hour design storm falling within the project area under existing and developed conditions. The Hydrology is per "Section 22.2, Hydrology of the Development Process Manual, Volume 2, Design Criteria, for the City of Albuquerque, New Mexico in cooperation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

PROPERTY ADDRESS:

6616 Kimmick Drive NW

## TOPOGRAPHY:

Topographic information provided by Christopher Medina dated July, 2017.



## ENGINEER'S CERTIFICATION:

I, Jackie S. McDowell, hereby certify that I personally inspected the site shown on this plan on July 11, 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.

6616 KIMMICK DR. NW, ALBUQUERQUE, NM 87120 CITY OF ALBUQUERQUE, BERNALILLO COUNTY

NEW MEXICO LOT 4, BLOCK 6, UNIT 18 VOLCANO CLIFFS SUBDIVISION

CANDELARIA - GONZALES - GRADING & DRAINAGE PLAN

TELE: 505-828-2430 • FAX: 505-821-4857 Drawn STAFF Checked JSM JULY,2017

5. THIS IS NOT A BOUNDARY SURVEY, APPARENT PROPERTY CORNER AND PROPERTY LINES ARE SHOWN FOR INFORMATION ONLY. BOUNDARY DATA SHOWN IS FROM A ECORD DOCUMENT.

TOPOGRAPHIC SURVEY PERFORMED AND COMPILED BY TERRA LAND SURVEYS, LLC

CONCRETE POST POURED AROUND THE ORIGINAL IRON PIPE 1 FOOT ABOVE GROUND

BENCHMARK FROM THE INTERSECTION OF MONTANO ROAD AND UNSER BOULEVARD

ROAD NORTHWEST, TURN LEFT AND TRAVEL 320 FEET TO 81ST STREET NORTHWEST

TEMPORARY BENCHMARK IS CP 101 A SET 1/2 INCH REBAR WITH CAP STAMPED

"TERRA CONTROL." ELEVATION=5,335.15 FEET (NAVD 1988 VERTICAL DATUM).

AND THE STATION IS LOCATED ON THE SOUTHEAST QUADRANT OF THE INTERSECTION.

NORTHWEST, TRAVEL NORTHWEST ON UNSER BOULEVARD 0.78 MILES TO MOLTEN ROCK

PROJECT BENCHMARK IS A USGLO SECTION CORNER DISC SET IN A 12 INCH

STAMPED, "S21, S22, S28, S27. T11, R2E, 1911." TO REACH THE STATION

CORRALES, NEW MEXICO JULY 2017.

PROJECT BENCHMARK

ELEVATION = 5,330.151 FEET.

TEMPORARY BENCHMARK

2. TOPOGRAPHIC SURVEY WAS COMPILED UTILIZING GROUND COORDINATES REFERENCED TO THE NAD 83 NEW MEXICO CENTRAL ZONE COORDINATE SYSTEM. PRIMARY

. FIELD SURVEY PERFORMED IN JULY 2017.

<u>NOTES</u>

HORIZONTAL AND VERTICAL CONTROL WAS ESTABLISHED UTILIZING GPS RTK METHODS (COMBINED GROUND TO GRID FACTOR = 0.999671106 SCALED AROUND 0,0).

3. ELEVATIONS SHOWN FOR PIPES ARE INVERT ELEVATIONS UNLESS OTHERWISE SPECIFIED. 4. CONTOURS SHOWN HEREON ARE AT A ONE FOOT INTERVAL REFERENCED TO THE

NAVD 88 VERTICAL DATUM.