

Mayor Timothy M. Keller

December 3, 2021

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

RE: Lot 16 Block 4 Unit 22, S.A.D. 228

**Volcano Cliffs Subdivision** 6427 Canavio Rd. NW **Grading and Drainage Plan Engineers Stamp Date 12/2/2021 (D10D003D16)** 

Ms. McDowell,

Based upon the information provided in your submittal received 12/2/2021, this plan is approved PO Box 1293

for Grading Permit.

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 and if a pool is added later on a new grading permit will

be required. www.cabq.gov

NM 87103

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 924-3986 or Rudy Rael at 924-3977.

Sincerely,

Ernest Armijo, P.E.

Principal Engineer, Planning Dept.

**Development Review Services** 



# City of Albuquerque

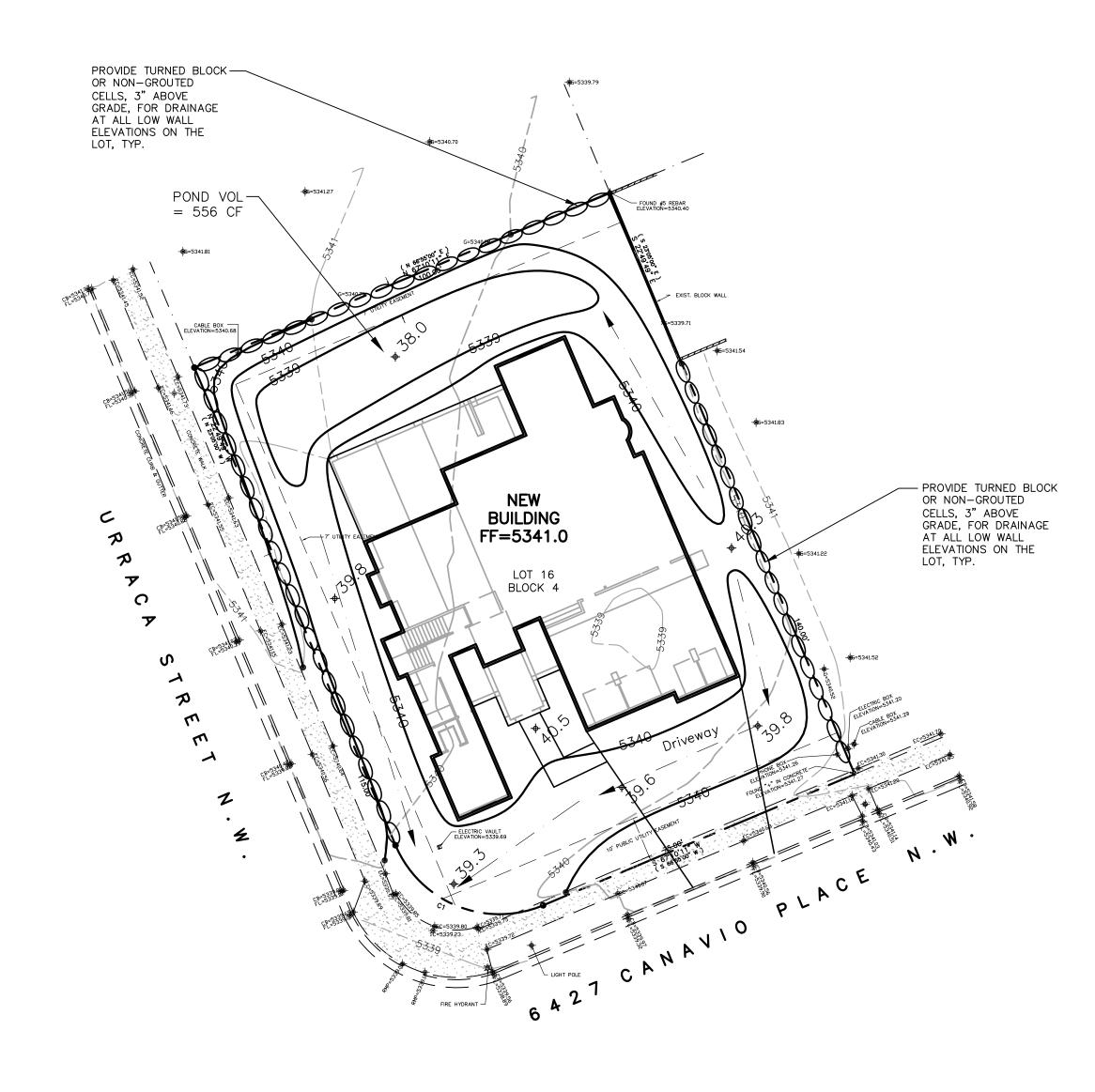
### Planning Department

### Development & Building Services Division

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

Project Title: CANDELARIA - HASLAM LOT 16		
DRB#:		
Legal Description: 00160004VOLCANO CLIFF		
City Address: 6427 CANAVIO RD NW ALBUQUE	RQUE NM 87120	
Applicant: MCDOWELL ENGINEERING, INC.		Contact: JACKIE MCDOWELL
Address: 7820 BEVERLY HILLS AVE. NE, ALBUQU	ERQUE, NM 87122	
Phone#: 505-828-2430	Fax#: 505-821-4857	E-mail: jackmcdowell@comcast.net
Other Contact: DIEGO CANDELARIA		Contact: DIEGO CANDELARIA
Address: 1330 Crestview Dr. Los Lunas, NM 8703		
Phone#: 505-480-5608		
TYPE OF DEVELOPMENT:PLAT		
IS THIS A RESUBMITTAL? Yes	XNo	
DEPARTMENT TRANSPORTATION	X HYDROLOGY/DRAINA	AGE
Check all that Apply:  TYPE OF SUBMITTAL:  ENGINEER/ARCHITECT CERTIFICATIO  PAD CERTIFICATION  CONCEPTUAL G & D PLAN  GRADING PLAN  DRAINAGE REPORT  DRAINAGE MASTER PLAN  FLOODPLAIN DEVELOPMENT PERMIT  ELEVATION CERTIFICATE  CLOMR/LOMR  TRAFFIC CIRCULATION LAYOUT (TCL  TRAFFIC IMPACT STUDY (TIS)  STREET LIGHT LAYOUT  OTHER (SPECIFY)  PRE-DESIGN MEETING?	X BUILDING CERTIFIC  PRELIMIN SITE PLA SITE PLA FINAL PL  APPLIC  SIA/ RELI FOUNDA' X GRADING SO-19 AP PAVING I GRADING WORK OR CLOMR/L FLOODPI	PERMIT APPROVAL G/PAD CERTIFICATION RDER APPROVAL
DATE SUBMITTED: 12-2-21	By: JACKIE MCDOWELL	
COA STAFF:	ELECTRONIC SUBMITTAL RECEIVEL	D:

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



# GENERAL DRAINAGE PLAN NOTES:

1. It is recommended that the Owner obtain a 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 seed mix.

This is the plan to be used for any garden walls and any openings in the walls shall be placed 3" above final grade in the rear yard to allow for cross lot drainage from west to east (upstream to downstream).

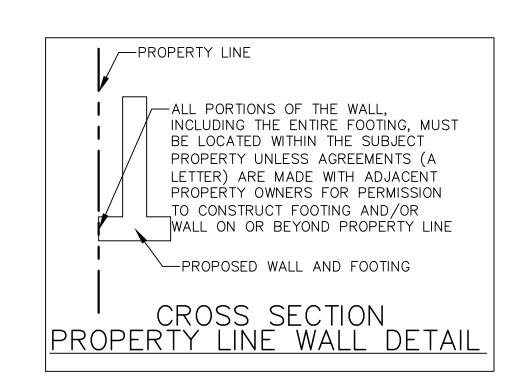
PROPERTY LINE WALLS AND GARDEN WALLS SHALL HAVE TURNED BLOCKS OR WEEP HOLES FOR DRAINAGE. ALL OPENINGS IN THE WALLS SHALL BE 3" ABOVE GRADE.

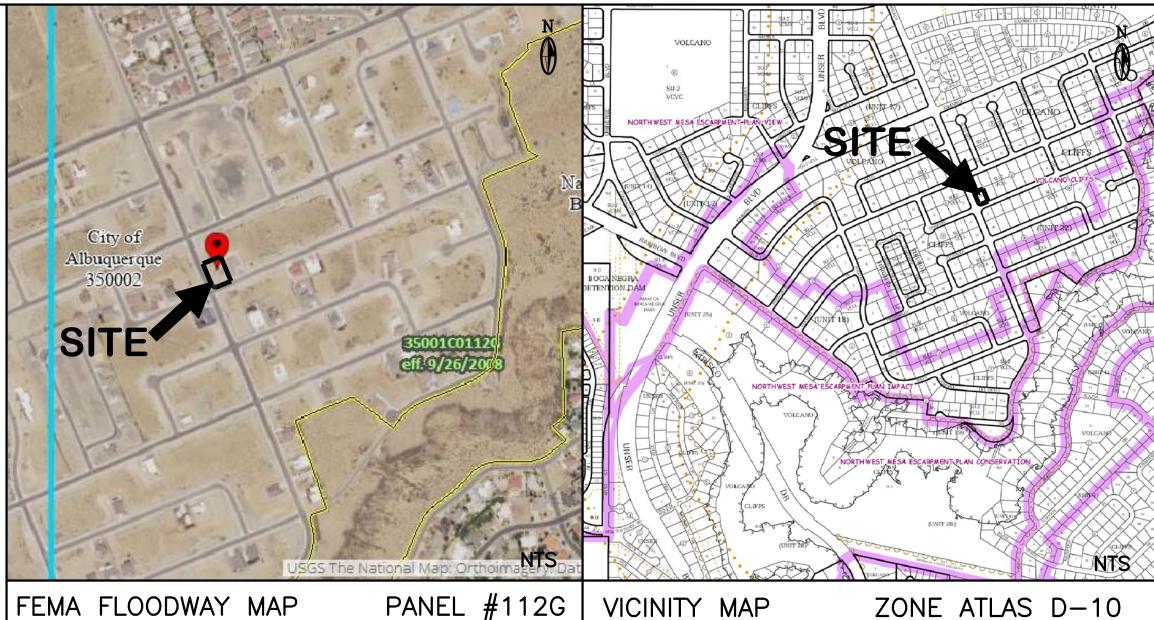
STANDARD GRADING NOTE: THE MAXIMUM GRADED SIDE SLOPE SHALL NOT EXCEED 3 FEET (HORIZONTALLY) TO 1 FOOT (VERTICALLY). AREAS DISTURBED BY GRADING WHICH WILL NOT BE TREATED WITH LANDSCAPING SHALL BE SEEDED.

STANDARD WALL AND PAD CERTIFICATION NOTES:

ALL PERMITER GARDEN WALLS SHALL BE PERMITTED SEPARATELY.

A PAD CERTIFICATION IS REQUIRED BEFORE THE BUILDING PERMIT IS RELEASED.





SURVEY LEGEND = CURB = EDGE OF CONCRETE = FLOWLINE = GROUND = TOP OF CONCRETE

### SURVEY GENERAL NOTES:

POND VOLUME PROVIDED:

5339

AREA

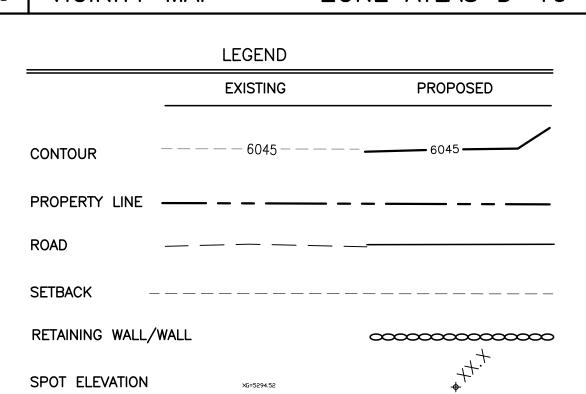
SUB-TOTAL

1112

VOL. (CF)

1: CONTOUR INTERVAL IS ONE (1) FOOT.

- 2: ELEVATIONS ARE BASED ON READINGS TAKEN WITH A GPS UNIT STONEX S10A
- 3: UTILITIES SHOWN HEREON ARE IN THEIR APPROXIMATE LOCATION BASED ONLY ON ABOVE GROUND EVIDENCE FOUND IN THE FIELD AND AS-BUILT INFORMATION PROVIDED BY THE CLIENT, UTILITIES SHOWN HEREON, WHETHER INDICATED AS ABANDONED OR NOT, SHALL BE VERIFIED BY OTHERS FOR EXACT LOCATION AND/ OR DEPTH PRIOR TO EXCAVATION OR DESIGN CON-SIDERATIONS.
- 4: THIS IS <u>NOT</u> A BOUNDARY SURVEY APPARENT PROPERTY CORNERS AND PROPERTY LINES ARE SHOWN FOR INFORMATION ONLY, BOUNDARY DATA SHOWN IS FROM PREVIOUS SURVEY REFERENCE HEREON





# 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 0.32 acre site is undeveloped. The site is bounded on the north, and east by private property, on the west by Urraca Street, and on the south by Canavio Pl. NW. The site is level. As shown on FEMA Panel #112G, the site is not located in a 100 year flood plain.

# PROPOSED CONDITIONS:

Per the SAD 227 and 228 Drainage Reports by Wilson & Company, drainage from the lots have been master planned to be intercepted by drainage features downstream of the properties. First flush ponding is required on all developments. As shown by the plan, the building is located in the center of the lot. Negligible off—site flows enter the site due to existing grades from the north and east and will continue to be allowed to historically flow through the site. On site flows will drain around the structure to new grades and flow to the ponding area and street. All roof drainage will discharge from the roof to the lot and be directed around the structure to the drainage paths.

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:

6427 CANAVIO RD NW ALBUQUERQUE NM 87120

Areas: (acres)		Existing	Proposed
Treatment A		0.32	0.00
Treatment B		0.00	0.12
Treatment C		0.00	0.06
Treatment D		0.00	0.14
	(acres) =	0.32	0.32

П	Volume	100 year	100 year	10 year	10 year	2 year	2 year
П		Existing	Proposed	Existing	Proposed	Existing	Proposed
П	Volume (acre-feet) =	0.012	0.035	0.002	0.019	0.000	0.009
	Volume (cubic feet) =	511	1,509	93	822	0	396

FIRST FLUSH REQUIRED POND VOL = 0.34"/(12"/FT)\*(0.32 AC \* 43560 SF/AC) = 395 CF

II I	100 year Existing Q(p)*A	Proposed		Proposed	_	2 year Proposed Q(p)*A
Treatment A	0.41	0.00	0.08	0.00	0.00	0.00
Treatment B	0.00	0.24	0.00	0.09	0.00	0.00
Treatment C	0.00	0.17	0.00	0.09	0.00	0.03
Treatment D	0.00	0.61	0.00	0.40	0.00	0.24
Total Q (cfs) =	0.41	1.03	0.08	0.59	0.00	0.27



I, Jackie S. McDowell, hereby certify that I personally inspected the site shown on this plan on November 22, 2021 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.

6427 CANAVIO RD NW ALBUQUERQUE NM 87120 CITY OF ALBUQUERQUE, BERNALILLO COUNTY

NEW MEXICO LOT 16, BLOCK 4, UNIT 22 VOLCANO CLIFFS SUBDIVISION

HASLAM, VINCENT (CANDELARIA HOMES) - G & D PLAN



esigned JSM Drawn STAFF NOVEMBER,2021

