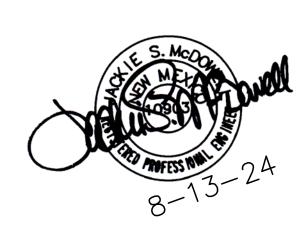


VICINITY MAP ZONE ATLAS B-13

FEMA FLOODWAY MAP

PANEL #108G

LEGEND **EXISTING** PROPOSED SETBACK \_\_\_\_\_\_ RETAINING WALL/WALL  $\infty$ SPOT ELEVATION



#### 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 exists and tiered retaining walls are proposed in the back yard for slope control and landscaping aesthetics.

#### **EXISTING CONDITIONS:**

Presently, the 0.34 acre site is developed. The site is bounded on the east and west by private property, on the north by Ridgerunner Rd., and on the south by Seven Bar Loop NW. The site is level in the north portion where the existing home is located and slopes drastically (2:1) in the south portion. As shown on FEMA Panel #108G, the site is not located in a 100 year flood plain.

#### PROPOSED CONDITIONS:

Per the current city requirements, the improvements will take into consideration the first flush ponding requirements for the site. The master drainage plan for the site and subdivision shows that drainage from the lots have been master planned to be intercepted by drainage features downstream of the properties for typical developments of the property. As shown by the plan, the proposed retaining walls are strategically located in the southern portion of the lot. On site flows will continue to drain to the south with shallow planting/ponding areas located as part of the level areas between the retaining walls

### 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 the City of Albuquerque, New Mexico in cooperation with Bernalillo County, New Mexico and the Albuquerque Metropolitan Arroyo Flood Control Authority.

#### PROPERTY ADDRESS:

4200 Ridgerunner Rd NW, Albuquerque, NM 87114

Topographic information provided by Lorenzo Dominquez dated March 1, 2024.

ZONE	1
Δ	/

Top Down View

Existing Wall to

existing wall and

6" gap between

existing wall and

			1			
Areas: (acres)				SE POND V	OLUME PRO	VIDED:
	Existing	Proposed		ELEV.	AREA (SF)	VOL. (CF)
Treatment A	0.00	0.00		5121.67	563	
Treatment B	0.10	0.10				230.815
Treatment C	0.15	0.15		5121	126	
Treatment D	0.09	0.09	l '			
Total (acres) =	0.34	0.34	1			
			•			
Volume	100 year	100 year	10 year	10 year	2 year	2 year
	Existing	Proposed	Existing	Proposed	Existing	Proposed
Volume (acre-feet) =	0.033	0.033	0.017	0.017	0.007	0.007
Volume (cubic feet) =	1,426	1,426	725	725	304	304

#### FIRST FLUSH REQUIRED POND VOL = 0.34"/(12"/FT)\*(0.09 AC \* 43560 SF/AC) = 111 CF

Total Q(p), cfs:						2 year Proposed Q(p)*A
Treatment A	0.00	0.00	0.00	0.00	0.00	0.00
Treatment B	0.20	0.20	0.08	0.08	0.00	0.00
Treatment C	0.43	0.43	0.22	0.22	0.07	0.07
Treatment D	0.39	0.39	0.26	0.26	0.15	0.15
Total Q (cfs) =	1.03	1.03	0.56	0.56	0.23	0.23

## ENGINEER'S CERTIFICATION:

I, Jackie S. McDowell, have reviewed the topographic survey provided by the owner for the site shown on this plan and it appears that no filling, grading, or excavation has occurred thereon since completion of the topographic survey used to prepare this plan.

4200 Ridgerunner Rd NW, Albuguergue, NM 87114 CITY OF ALBUQUERQUE, BERNALILLO COUNTY

> LOT 163A P-1 MIRADOR SANDIAS SUBDIVISION

FROST, DENNY - RETAINING WALL PROJECT - G & D PLAN

NEW MEXICO

# McDowell Engineering, 9nc.

TELE: 505-828-2430 • FAX: 505-821-4857

esigned JSM Drawn STAFF Date AUGUST,2024 FR00124T

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.

the grades next to the structures are not recommended. 3. Irrigation within 10 feet of any proposed structure is not recommended.

2. This plan recommends positive drainage away from all structures to prohibit ponding of runoff adjacent to the structure. Future alterations of

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.

