CITY OF ALBUQUERQUE

Planning Department
Suzanne Lubar, Director

Mayor Richard J. Berry

June 20, 2017

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

RE: **Lot 4A Block 9 Unit 18, S.A.D. 228**
7409 Aguila St. NW
Grading and Drainage Plan
Engineers Stamp Date 6-19-17 (D10D003I4)

Dear Ms. McDowell,

Based upon the information provided in your submittal received 6/19/17, this plan is approved for Grading Permit. Please be advised that, before the building permit can be issued a PAD Certification must be approved

Please have the owner/builder attach a copy of this approved plan, to the construction sets in the permitting process prior to sign-off by Hydrology.

If you have any questions, please contact me at 924-3695 or Rudy Rael at 924-3977.

Sincerely,

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

RR/JDH
C: File

PO Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: BURK LOT 4-A Building Permit #: City Drainage #:

DRB#: EPC#: Work Order#:

Legal Description: LOT 4-A, BLOCK 9, UNIT 18 VOLCANO CLIFFS SUB'D

City Address: 7904 AGUILA STREET NW, ALB., NM 87120

Engineering Firm: MCDOWELL ENGINEERING, INC. Contact: JACKIE MCDOWELL

Address: 7820 BEVERLY HILLS AVE. NE

Phone#: 505-828-2430 Fax#: 505-821-4857 E-mail: jackmcdowell@comcast.net

Owner: LISA & DARREN BURK Contact: LISA & DARREN BURK

Address: 6820 METE SOL DR. NW, ALB., NM 87120

Phone#: 505-274-1027 Fax#: E-mail: MAMMABURK@GMAIL.

Architect: Contact:

Address:

Phone#: Fax#: E-mail:

Surveyor: ALPHA PRO SURVEYING, LLC Contact: GARY GRITSKO

Address: 1436 32 CIRCLE SE,RIO RANCHO, NM 87124

Phone#: 505-892-1076 Fax#: E-mail: GARY@ALPHAPROSUR

Contractor: Contact:

Address:

Phone#: Fax#: E-mail:

TYPE OF SUBMITTAL:

- ____ DRAINAGE REPORT
- X DRAINAGE PLAN 1st SUBMITTAL
- ____ DRAINAGE PLAN RESUBMITTAL
- ____ CONCEPTUAL G & D PLAN
- ____ GRADING PLAN
- ____ EROSION & SEDIMENT CONTROL PLAN (ESC)
- ____ ENGINEER'S CERT (HYDROLOGY)
- ____ CLOMR/LOMR
- ____ TRAFFIC CIRCULATION LAYOUT (TCL)
- ____ ENGINEER'S CERT (TCL)
- ____ ENGINEER'S CERT (DRB SITE PLAN)
- ____ ENGINEER'S CERT (ESC)
- ____ SO-19
- ____ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

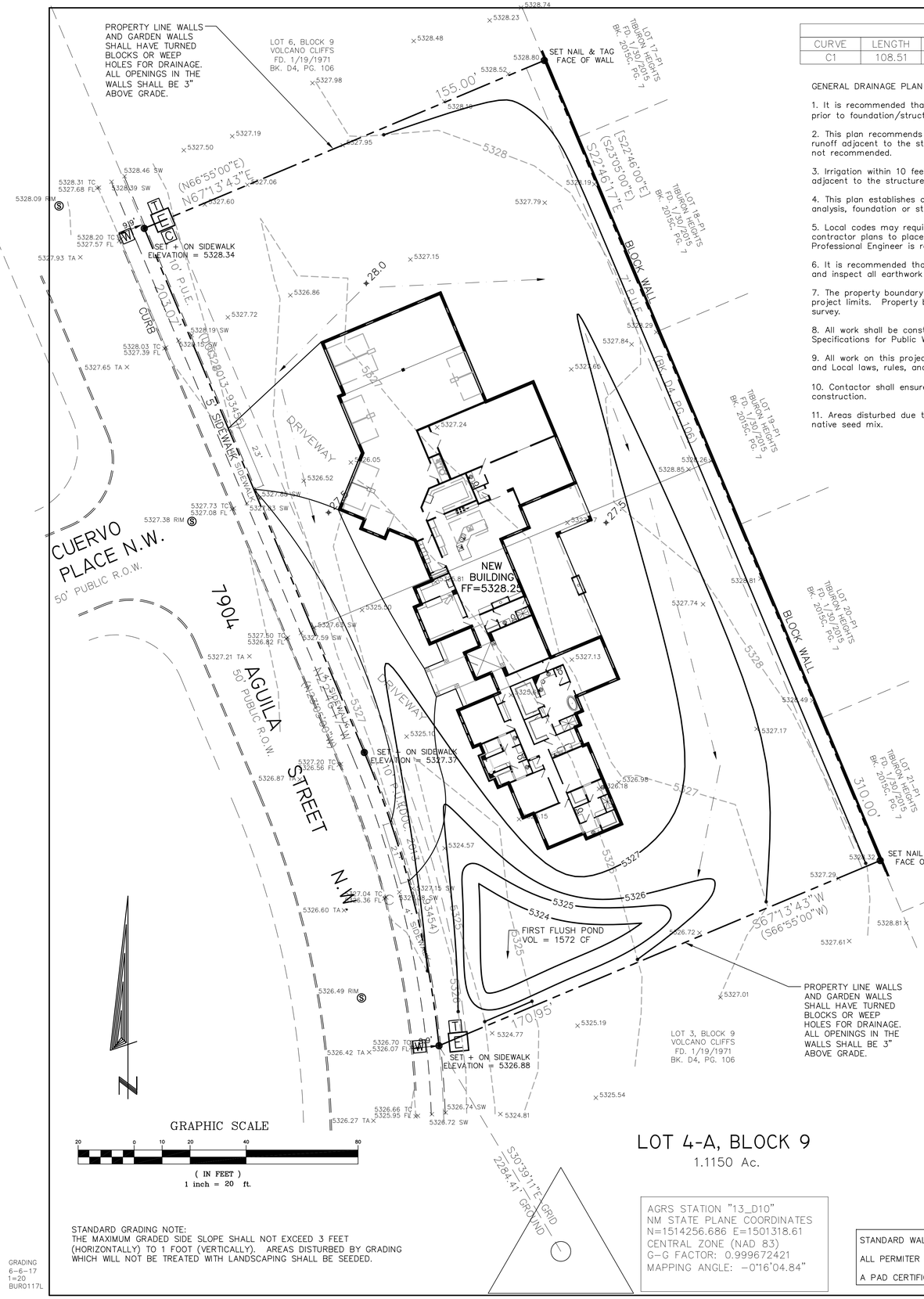
- ____ SIA/FINANCIAL GUARANTEE RELEASE
- ____ PRELIMINARY PLAT APPROVAL
- ____ S. DEV. PLAN FOR SUB'D APPROVAL
- ____ S. DEV. FOR BLDG. PERMIT APPROVAL
- ____ SECTOR PLAN APPROVAL
- ____ FINAL PLAT APPROVAL
- ____ CERTIFICATE OF OCCUPANCY (PERM)
- ____ CERTIFICATE OF OCCUPANCY (TCL TEMP)
- ____ FOUNDATION PERMIT APPROVAL
- X BUILDING PERMIT APPROVAL
- ____ GRADING PERMIT APPROVAL
- ____ PAVING PERMIT APPROVAL
- ____ WORK ORDER APPROVAL
- ____ GRADING CERTIFICATION
- ____ SO-19 APPROVAL
- ____ ESC PERMIT APPROVAL
- ____ ESC CERT. ACCEPTANCE
- ____ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED: ____ Yes X No ____ Copy Provided

DATE SUBMITTED: 6-19-17 By: JACKIE MCDOWELL

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the followin

1. **Conceptual Grading and Drainage Plan**: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
2. **Drainage Plans**: Required for building permits, grading permits, paving permits and site plans less than five (5) acres
3. **Drainage Report**: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development



CURVE TABLE					
CURVE	LENGTH	RADIUS	CHORD BEARING	CHORD	DELTA
C1	108.51	366.47	N14°17'20"W	108.11	16°57'53"

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.

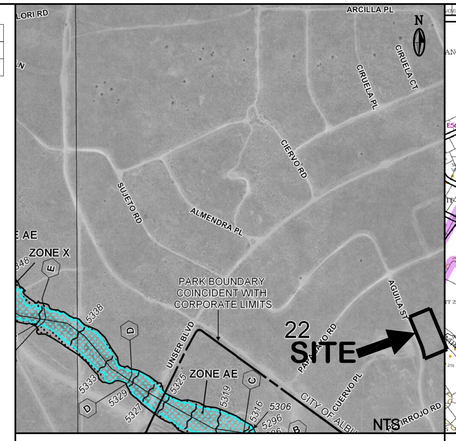
7. The property boundary shown on this plan is given for information only to describe the project limits. Property boundary information shown hereon does not constitute a boundary survey.

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

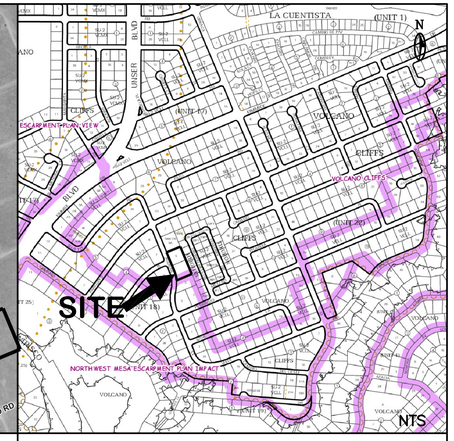
9. All work on this project shall be performed in accordance with applicable Federal, State, and Local laws, rules, and regulations concerning construction safety and health.

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.



FEMA FLOODWAY MAP PANEL #111G



VICINITY MAP ZONE ATLAS D–10

LEGEND

	EXISTING	PROPOSED
CONTOUR	6045	6045
PROPERTY LINE		
ROAD		
SETBACK		
WALL		
SPOT ELEVATION	5328.03 TC 5327.39 FL	XXXX

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 1.12 acre site is undeveloped. The site is bounded on the southwest by Aguila Stsreet NW, and on the northwest, southeast, and northeast by private property. The site is relatively level in the center and has a gentle slope from the north to the south. Site topography slopes to the south. 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. Off–site flows enter the site due to existing grades on adjacent lots which transport offsite runoff through the site and 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:

7904 Aguila Street NW

TOPOGRAPHY:

Topographic information provided by Gary Gritsko dated June, 2017.

ZONE 1

Areas: (acres)	Existing	Proposed
Treatment A	1.12	0.00
Treatment B	0.00	0.77
Treatment C	0.00	0.00
Treatment D	0.00	0.35
Total (acres) =	1.12	1.12

POND VOLUME PROVIDED:

ELEV.	AREA	VOL. (CF)
5325	2140	
		1572
5324	1004	

Volume	100 year Existing	100 year Proposed	10 year Existing	10 year Proposed	2 year Existing	2 year Proposed
Volume (acre-feet) =	0.041	0.100	0.007	0.050	0.000	0.022
Volume (cubic feet) =	1,789	4,376	325	2,190	0	943

FIRST FLUSH REQUIRED POND VOL = 0.34"/(12"/FT)*(1.12AC * 43560 SF/AC) = 1382 CF

Total Q(p), cfs:	100 year Existing Q(p)*A	100 year Proposed Q(p)*A	10 year Existing Q(p)*A	10 year Proposed Q(p)*A	2 year Existing Q(p)*A	2 year Proposed Q(p)*A
Treatment A	1.44	0.00	0.27	0.00	0.00	0.00
Treatment B	0.00	1.56	0.00	0.59	0.00	0.02
Treatment C	0.00	0.00	0.00	0.00	0.00	0.00
Treatment D	0.00	1.53	0.00	1.01	0.00	0.59
Total Q (cfs) =	1.44	3.09	0.27	1.60	0.00	0.61

ENGINEER'S CERTIFICATION:

I, Jackie S. McDowell, hereby certify that I personally inspected the site shown on this plan on June 16, 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.

LOT 4–A, BLOCK 9
1.1150 Ac.

AGRS STATION "13_D10"
NM STATE PLANE COORDINATES
N=1514256.686 E=1501318.61
CENTRAL ZONE (NAD 83)
G–G FACTOR: 0.999672421
MAPPING ANGLE: –0°16'04.84"

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.

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).

GRADING
6–6–17
1=20
BUR0117L

CITY OF ALBUQUERQUE, BERNALILLO COUNTY NEW MEXICO

LOT 4–A, BLOCK 9, UNIT 18
VOLCANO CLIFFS SUBDIVISION

BURK – GRADING & DRAINAGE PLAN

McDowell Engineering, Inc.
7820 BEVERLY HILLS AVE. NE • ALBUQUERQUE, NM 87122
TELE: 505–828–2430 • FAX: 505–821–4857

Designed	Drawn	Checked	Sheet of
JSM	STAFF	JSM	1 1
File BUR0117L	Date JUNE,2017		