CITY OF ALBUQUERQUE

Planning Department
David Campbell, Director



Mayor Timothy M. Keller

June 15, 2018

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

RE: Lot 3 Block 5 Unit 18, S.A.D. 227 Unser Cliffs Subdivision

6516 Onyx Ct NW Grading and Drainage Plan Engineers Stamp Date: 4/10/18 (D10D044)

Pad Certification Date: 6/13/18

Dear Ms. McDowell,

Based upon the information provided in your submittal received 6/14/18, this plan is approved for Building Permit.

PO Box 1293

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.

Albuquerque

Reiterate to the Owner/Contractor that a separate permit for any garden/retaining wall must be obtained, with the approved G&D plan dated 4/10/18.

NM 87103

Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist of this plan will be required. A fee of \$75.00 will be charged for this certification. If an additional resubmittal is required a \$75.00 fee for each resubmittal will be charged.

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/DP

C: File D10D044

CITY OF ALBUQUERQUE

Planning Department
David Campbell, Director



Mayor Timothy M. Keller

April 16, 2018

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

RE: Lot 3 Block 5, S.A.D. 227
Unser Cliffs Subdivision
6516 Onyx Ct. NW
Grading and Drainage Plan
Engineers Stamp Date 4-10-18 (E10D044)

Dear Ms. McDowell,

Based upon the information provided in your submittal received 4/11/18, 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.

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 4/10/18.

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 924-3986 or Rudy Rael at 924-3977.

James D. Brafile

James D. Hughes, F.E.

Principal Engineer, Hydrology

Planning Department

RR/JDH C: File



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

E10D044

Project Title:	Building Permit #: City Drainage #:
DRB#: EPC#:	Work Order#:
Legal Description:	
City Address:	
Engineering Firm:	Contact:
Address:	
Phone#: Fax#:	E-mail:
Owner:	
Address:	
Phone#: Fax#:	E-mail:
Architect:	Contact:
Address:	
Phone#: Fax#:	E-mail:
Surveyor:	Contact:
Address: Phone#: Fax#:	E-mail:
Contractor:	Contact:
Address: Phone#: Fax#:	E-mail:
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:
DRAINAGE REPORT	SIA/FINANCIAL GUARANTEE RELEASE
DRAINAGE PLAN 1st SUBMITTAL DRAINAGE PLAN RESUBMITTAL	PRELIMINARY PLAT APPROVAL S. DEV. PLAN FOR SUB'D APPROVAL
CONCEPTUAL G & D PLAN	S. DEV. FLAN FOR SUB D'AFFROVAL S. DEV. FOR BLDG. PERMIT APPROVAL
GRADING PLAN	SECTOR PLAN APPROVAL
EROSION & SEDIMENT CONTROL PLAN (ESC)	FINAL PLAT APPROVAL
ENGINEER'S CERT (HYDROLOGY)	CERTIFICATE OF OCCUPANCY (PERM)
CLOMR/LOMR	CERTIFICATE OF OCCUPANCY (TCL TEMP)
TRAFFIC CIRCULATION LAYOUT (TCL)	FOUNDATION PERMIT APPROVAL
ENGINEER'S CERT (TCL)	BUILDING PERMIT APPROVAL
ENGINEER'S CERT (DRB SITE PLAN)	GRADING PERMIT APPROVAL SO-19 APPROVAL
ENGINEER'S CERT (ESC)	PAVING PERMIT APPROVAL ESC PERMIT APPROVAL
SO-19	WORK ORDER APPROVAL ESC CERT. ACCEPTANCE
OTHER (SPECIFY) PAD CERTIFCATION	
WAS A PRE-DESIGN CONFERENCE ATTENDED:	Yes No Copy Provided
DATE SUBMITTED:	By:

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 following

- 1. Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
- Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres
 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

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).

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.

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
- 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.

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 0.39 acre site is undeveloped. The site is bounded on the northwest and southeast by private property, on the southwest by Onyx Ct., and on the northeast by Unser Blvd. NW. The site is level. As shown on FEMA Panel #111G, the site is not located in a 100 year flood plain.

PROPOSED CONDITIONS:

Per the SAD 227 Drainage Report by Wilson & Company, drainage from the lots have been master planned to be intercepted by drainage features downstream of the properties for developments than do not exceed 36% impervious, which this development meets, therefore, no ponding is required. As shown by the plan, the building is located in the center of the lot. Some off—site flows enter the site due to existing grades on adjacent lots. On site flows will drain around the structure to existing grades. 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:

6516 Onyx Ct.NW

TOPOGRAPHY:

Topographic information provided by Christopher Dehler dated March, 2018.

LEGAL DESCRIPTION

Lot numbered Three (3) in Block numbered Five (5) of UNSER CLIFFS SUBDIVISION, as the same is shown and Adesignated on the Plat thereof, filed in the Office of the County Clerk of Bernalillo County, New Mexico, on August 12, 2004, in Book 2004C, Page 238, as Document No. 2004114456.

SURVEY NOTES

1) Bearings and distances shown are based on the plat of record. All distances shown are ground. Property lines drawn hereon based on location of found survey monuments as indicated 2) Elevations shown hereon are NAVD 88 values GPS derived.

3) Any underground structure not shown is not a part of this survey. 4) This property is subject to pertinent easements, matters of zoning, covenants, restrictions and reservations of record. 5) This survey shows only those easements apparent on the ground and those disclosed in a

Title Binder prepared for this property by First American Title (file# 2305559—AL01). no title search was performed by the surveyor. 6) This property is not located within a Special Flood Hazard Boundary per FEMA FIRM No. 35043C1904D dated March 18, 2008. This property lies in Zone X.

PROVDE 2~TURNED

BLOCKS 3" ABOVE GRADE FOR DRAINAGE 0.386 acre

Story No. BUILDING FF=5324.5

bw 24.44 tc 24.31 fl 23.71 cl 24.06 tc 23.99 fl 23.38 cl 23.69

cl 23.39

tc 22.91 cl 22.70 cl 22.61

ZONE 1 2.20 inches 3.67 inches P(10 day) =

Areas: (acres)		
	Existing	Proposed
Treatment A	0.39	0.05
Treatment B	0.00	0.11
Treatment C	0.00	0.11
Treatment D	0.00	0.12
Total (acres) =	0.39	0.39

PERCENT IMPERVIOUS: 0.12/0.39 = 31%

-PROVDE 2~TURNED BLOCKS 3" ABOVE

GRADE FOR DRAINAGE

GRAPHIC SCALE

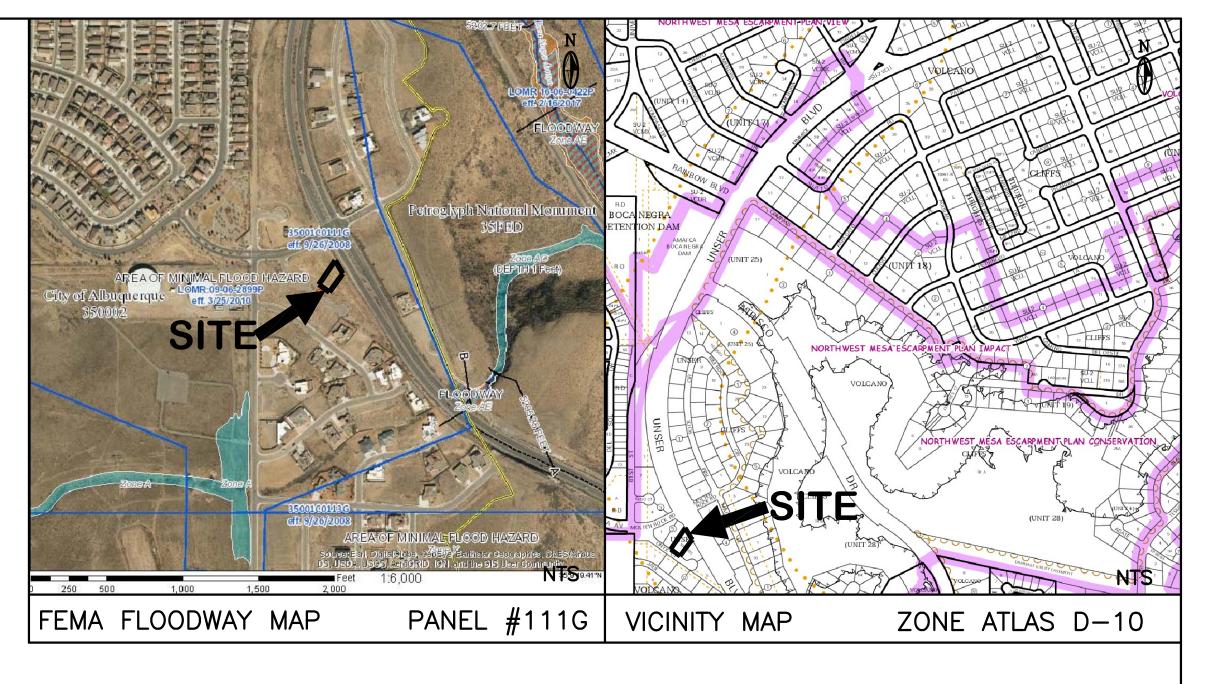
(IN FEET)

1 inch = 20 ft.

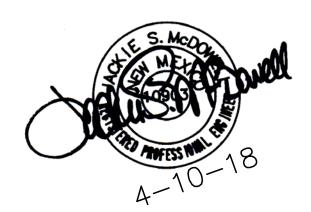
Volume	100 year	100 year	10 year	10 year	2 year	2 year
	Existing	Proposed	Existing	Proposed	Existing	Proposed
Volume (acre-feet) =	0.014	0.037	0.003	0.019	0.000	0.008
Volume (cubic feet) =	623	1,601	113	818	0	366

SAD 227 MAXIMUM IMPERVIOUS AREA WITHOUT PONDING REQUIREMENTS IS 36% WHICH THIS MEETS

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
0.50	0.06	0.09	0.01	0.00	0.00
0.00	0.22	0.00	0.08	0.00	0.00
0.00	0.32	0.00	0.16	0.00	0.05
0.00	0.52	0.00	0.35	0.00	0.20
0.50	1.13	0.09	0.61	0.00	0.26
	Existing Q(p)*A 0.50 0.00 0.00	Existing Q(p)*A Q(p)*A Q(p)*A 0.50 0.06 0.00 0.22 0.00 0.32 0.00 0.52	Existing Q(p)*A Q(p)*A Q(p)*A Q(p)*A Q(p)*A Q(p)*A Q(p)*A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Existing Q(p)*A Proposed Q(p)*A Existing Q(p)*A Proposed Q(p)*A 0.50 0.06 0.09 0.01 0.00 0.22 0.00 0.08 0.00 0.32 0.00 0.16 0.00 0.52 0.00 0.35	Existing Q(p)*A Proposed Q(p)*A Existing Q(p)*A Proposed Q(p)*A Existing Q(p)*A 0.50 0.06 0.09 0.01 0.00 0.00 0.22 0.00 0.08 0.00 0.00 0.32 0.00 0.16 0.00 0.00 0.52 0.00 0.35 0.00



LEGEND **EXISTING** PROPOSED — — — — — 6045 — _______ RETAINING WALL/WALL SPOT ELEVATION



ENGINEER'S CERTIFICATION:

I, Jackie S. McDowell, hereby certify that I personally inspected the site shown on this plan on April 10, 2018 and as of that date it appeared that minor filling, grading, or excavation had occurred thereon since completion of the topographic survey used to prepare this plan.

CITY OF ALBUQUERQUE, BERNALILLO COUNTY LOT 3, BLOCK 5

> UNSER CLIFFS SUBDIVISION LANG - GRADING & DRAINAGE PLAN

McDowell Engineering, 9nc.

NEW MEXICO

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

MARCH,2018 LAN0118L

 Areas disturbed due to construction shall be restored per City of Albuquerque Special active seed mix. 10. Contactor shall ensure that no site salls/sediment or sit enters the righ-of-ways during construction. 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. 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. It is recommended that the Owner obtain the services of a Geotechnical Engineer to test and inspect all earthwork aspects of the project. E. Lead codes may require all feathings to be placed in natural undisturbed soil. If the confusion plans to place feathings on engineered fit, a certification by a registered professional Engineer is recommended. 2. This plan recommends positive drainings away from all structures to prohibit porting of runoff adjacent to the structure. Future alterations of the godes next to the structures are not recommended. STANDARD GRADING NOTE: THE MAXMUM 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. All work shall be constructed in accordance with the City of Albuquerque Standard pecifications for Public Works Construction with updates.). Irrigation within 10 feet of any proposed structure is not recommended. Irrigation water adjacent to the structures could couse settlement. . This plan establishes on-site drainage and assumes no responsibility for subsurface nalysis, foundation or structural design, or utility design. ALL PERMITER GARDEN WALLS SHALL BE PERMITTED SEPARATELY. OPERTY LINE WALLS AND GARDEN WALLS SHALL HAVE RNED BLOCKS OR WEEP HOLES FOR DRANAGE. L OPENINGS IN THE WALLS SHALL BE 3" ABOVE GRADE. INDARD WALL AND PAD CERTIFICATION NOTES: The adductions shown hereon define the 100 year—5 hour design storm felling within the project one under existing and developed conditions. The Hydology is per "Section 222, Hydology of the Development Process Burgust, Vojama 2, Design Carletta, for the City of Albespretter, New Marcio on cooperation with Bernatillo County, New Marcio on the Albespretter, New Marcio and Process Section 2018. her this SAD 277 Contenting Recent by Wilson & Company sciences from the best have been master primate to be intercepted by stortings the section of the the properties for developments the one of next secend SAS imperious, which this development metals, therefore, no perioding it required. As a former by the plan, the building is located in the centre of the list. Some elf-site from soft the talls due to existing grotter, and optional lost. One follows will write consort the secreture to existing grotter, and prior of the centre to be developed from the roof to the list and secretary country that the description country the structure to the developed positive. 5516 Onyx CENW sently, the 0.39 acre site is undeveloped. The site is bounded on the northwest is southeast by private property, on the southwest by Dhyx Ct., and on the theast by United Blot, NW, That site is level. As shown on FEMA Panel #115G, site is not located in a 100 year flood pioln. balculations are shown as part of this Grading and Orainage plan 2018 USAL DESCRIPTION

Let numbered Thee (1) in Block numbered Fine (5) of UNISTE CLETS, SUBDIVISION, on the source is shown bodylesignated on the size Interest, field in the Office of the Country Lettle of Bernestina Country, New Merico, on August 12, 2004, in Book 2004C, Page 228, on Decument No. 200411445C. N If the including a them hereon are NAID 68 violate of 32 defined;

3. Any infestignout structure not mean is not of 32 defined;

3. Any infestignout structure not mean is not of 4. This properly is subject to perfectly a subject to the good of those depleted in 5. This survey above to these depleted in 5. This survey to the survey of 1. This survey of 1. Thi A PROVDE 2~TURNED C BLOCKS 3" ABOVE GRADE FOR DRAINAGE 24 10 BUILDING FF=5324.5 5323 CAS MENTING 16 22.91 1 12.30 PERCENT IMPERVIOUS 0 12/0 39 = 31% 2.20 inches 3.67 inches MEER 2 year Proposed Q(p)*A 104 10 Mary 381 £6.901 24 3 ·W.14 CONTUSION WITH SO SURVEYOR WITH SO 5 BLOCKS 3" ABOVE GRADE FOR DRAINAGE OND HICERT FEMA FLOODWAY MAP GRAPHIC SCALE (IN FEET) PANEL #111G ROAD SPOT ELEVATION RETAINING WALL/WALL PROPERTY LINE ELADRICER'S CERTIFICATION.

1. Juncius S. McChawell, hereby certify that I personally inspected the site share non-tilling and expert 50, 2018 and accorded that is opposed sharen on tilling and expert 50, 2018 and accorded that is opposed to make completion of the lopographic survey used to propore this plan. VICINITY MAP McDowell Engineering, Inc. 7820 BENEFIT AND STATES FAX: SOS-481-485 STATES UNSER CLIFFS SUBDIVISION 6045 ZONE ATLAS D-10

N