

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

November 7, 2023

Sheldon Greer, P.E.
RESPEC
5971 Jefferson St. NE Suite 101
Albuquerque, New Mexico 87109

RE: Lot 14 Block 1 Volcano Cliffs Unit 22 SAD 228
8005 Agua Fria Ct. NW
Grading and Drainage Plan
Engineers Stamp Date: 10/29/2020 (D10D003N14)
CO Certification Date: 6/26/2023

Mr. Greer,

Based on the Certification received on 11/7/2023, the site is acceptable for release of Certificate of Occupancy by Hydrology.

PO Box 1293

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

Albuquerque

Sincerely,

NM 87103

www.cabq.gov

Tiequan Chen, P.E.
Principal Engineer, Hydrology
Planning Department, Development Review Services

RR/TC
File D10D003N14



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

Project Title: _____ **Building Permit #:** _____ **Hydrology File #:** _____

DRB#: _____ **EPC#:** _____ **Work Order#:** _____

Legal Description: _____

City Address: _____

Applicant: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

Owner: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

TYPE OF SUBMITTAL: _____ PLAT (____# OF LOTS) _____ RESIDENCE _____ DRB SITE _____ ADMIN SITE

IS THIS A RESUBMITTAL?: _____ Yes _____ No

DEPARTMENT: _____ TRAFFIC/ TRANSPORTATION _____ HYDROLOGY/ DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

- _____ ENGINEER/ARCHITECT CERTIFICATION
- _____ PAD CERTIFICATION
- _____ CONCEPTUAL G & D PLAN
- _____ GRADING PLAN
- _____ DRAINAGE MASTER PLAN
- _____ DRAINAGE REPORT
- _____ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
- _____ ELEVATION CERTIFICATE
- _____ CLOMR/LOMR
- _____ TRAFFIC CIRCULATION LAYOUT (TCL)
- _____ TRAFFIC IMPACT STUDY (TIS)
- _____ 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) _____

DATE SUBMITTED: _____ **By:** _____

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

Project Name: Petroglyph Estates
Project Address: xxx 1st
Pulte Site ID: Lot 14

Site Area (sq. ft.) 14000
House Area (sq. ft.) 5170
Driveway Area (sq. ft.) 900
Other Imp Area (sq. ft.) 1900
Total Imp. Area: 7170

AREA (SF)	% AREA	Q100 (CFS/AC)	Q100 (cfs)	DMP %	DMP (cfs)	DRAIN TO FRONT LOT AREA (sq. ft.)	DRAIN TO REAR LOT AREA (sq. ft.)	Q100 TO FRONT (cfs)	Q100 TO REAR (cfs)
A	0	0.0%	1.29	0.0%	0.00	0	0	0.00	0.00
B	3415	24.4%	2.03	10.0%	0.07	300	3115	0.01	0.15
C	3415	24.4%	2.87	40.0%	0.37	300	3115	0.02	0.21
D	7170	51.2%	4.37	50.0%	0.70	600	6570	0.06	0.66
TOTAL	14000	100.00%	1.30	1.14		12880	6109	1.01	

NOTES: (1) Zone 1- Table A-9 Albuquerque DPM
(2) Per Volcano Cliffs Drainage Management Plan
(3) Total Discharge
(4) Allowable Discharge

TABLE 2. WATER QUALITY STORM EVENT RUNOFF RATE AND VOLUME AS A PERCENT OF IMPERVIOUS AREA FOR 40-ACRE AND SMALLER SITES

Percent Impervious (%)	Runoff Depth (inches)	Runoff Rate (cfs/acre)	Runoff Volume (cubic feet/acre)
0	0	0	0
20	0.09	0.5	327
40	0.18	0.8	653
60	0.27	1.2	980
80	0.36	1.85	1017
100	0.46	1.5	1670

Table Interpolation:

Site Area (sq. ft.)	Site Area (ac.)	Imp. Area % Imp
14000	0.32	7170

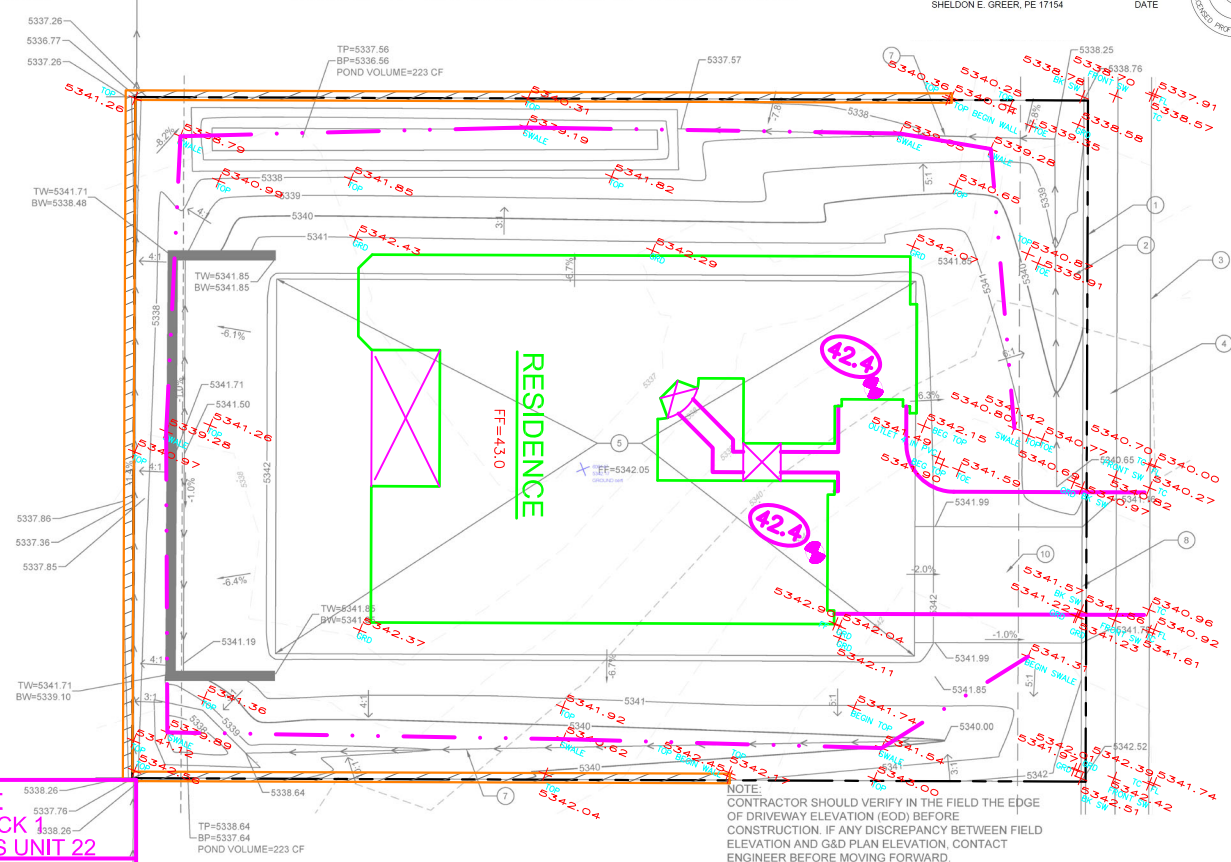
Runoff Vol. (per ac.)

0-20	20-40	40-60	60-80	80-100
51.2	0	0	836.4	0

Total Water Quality Volume Required: 268.8
Provided: 0.0

Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
LOT 14 VOLUME 1.00	1.25		14087.33 Sq. Ft.	64.25 Cu. Yd.	1465.46 Cu. Yd.	1401.21 Cu. Yd.<Fill>
Totals			14087.33 Sq. Ft.	64.25 Cu. Yd.	1465.46 Cu. Yd.	1401.21 Cu. Yd.<Fill>



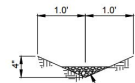
DRAINAGE CERTIFICATION

I, SHELDON GREER P.E., NMPE 17154, OF THE ENGINEERING FIRM RESPEC, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 10/29/2020. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY THOMAS W. PATRICK, NMPS 12051, OF THE FIRM COMMUNITY SCIENCE SERVICES. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 6/22/2023 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR CERTIFICATE OF OCCUPANCY. THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

SHELDON E. GREER, PE 17154
DATE: 6/26/2023



CONSTRUCT ALL SWALES AND EROSION PROTECTION BELOW ADJACENT GRADE TO ENSURE RUNOFF CAN BE CAPTURED AND CONVEYED PROPERLY.



SWALE SECTION

GENERAL NOTES:

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THE CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREIN, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS, 1986 EDITION, UPDATE NO. 8 VOL. 1 AND 2 JANUARY 2011.
- THE EROSION PROTECTION SPECIFIED THIS PLAN IS THE MINIMUM RECOMMENDED. THE OWNER IS ENCOURAGED TO INCORPORATE EROSION RESISTANT LANDSCAPING ON AREAS WHERE EROSION MAY OCCUR SUCH AS SLOPES AND SWALES. THE OWNER IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL FEATURES NECESSARY TO PRESERVE THE DESIGN INTENT OF THE GRADING PLAN.
- THE DRAINAGE INFRASTRUCTURE SHOWN ON THIS PLAN IS THE RESPONSIBILITY OF THE PROPERTY OWNER.
- ALL DISTURBED AREAS OUTSIDE THE BUILDING PAD MUST BE RESEED OR LANDSCAPED.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, (260-1990) FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS AND EXISTING PAVEMENT. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.
- GRADING SHOWN HEREIN ASSUMES THE CONCURRENT GRADING OF THE ADJACENT LOTS BELONGING TO THE SAME PROPERTY OWNER.

NOTE:

THE ENGINEER HAS UNDERTAKEN LIMITED FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINES IN OR NEAR THE ARE OF WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OR OTHERWISE.

NOTE:

THESE DRAWINGS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.

NOTE:

THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, ARE INTENDED FOR USE ON THIS PROJECT AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF RESPEC INC. IN THE EVENT OF UNAUTHORIZED USE, THE USER ASSUMES ALL RESPONSIBILITY AND LIABILITY WHICH RESULTS.

EROSION CONTROL NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING OF WORK.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
- REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITIES OF THE CONTRACTOR.
- ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT.

LEGEND

- TW = TOP OF WALL
- BW = BOTTOM OF WALL
- FG = FINISHED GROUND
- EG = EXISTING GROUND
- FL = FLOW LINE
- ED = EDGE OF DRIVEWAY
- FP = FINISHED PAD
- B = TOP OF BERM
- RETAINING WALL
- TOP OF BERM

KEYED NOTES

- EXISTING PROPERTY LINE
- EXISTING 10' P.U.E.
- EXISTING STANDARD CURB AND GUTTER
- EXISTING SIDEWALK
- PAD EXTENTS
- HIGH POINT OF SWALE
- SWALE
- MATCH DRIVEWAY TO BACK OF EXISTING SIDEWALK
- IF PERIMETER WALL IS INSTALLED THEN PROVIDE TURNED BLOCK TO ALLOW FOR CROSS LOT DRAINAGE.
- PROPOSED DRIVEWAY LOCATION. DRIVEWAY PERMIT BY OTHERS
- EXISTING WALL ADJACENT TO PROPERTY (RETAINING WALL MAY HAVE TO BE ADJUSTED WHEN EXISTING WALL ARE ENCOUNTERED.)
- EXISTING 7' P.U.E.
- 6" RIPRAP RUNDOWN



DESIGNED BY: RESPEC
DRAWN BY: RESPEC
CHECKED BY: RESPEC
DATE: 5/24/2021

STAMP: SHELDON E. GREER, PE 17154

PROJECT NAME: PETROGLYPH ESTATES
8005 AGUA FRIA CT
PULTE ID 14

SHEET TITLE: GRADING AND DRAINAGE PLAN

SHEET NUMBER: C-101

Asbuilt
LOT 14, BLOCK 1
VOLCANO CLIFFS UNIT 22

DATE: 6/29/23
CREW: RES
DRAWING: 4/24
SPE: VESAD
IN: N143-08

Community Sciences Corporation
Land Surveying
(505) 897.0000