CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director

Mayor Timothy M. Keller

July 6, 2020

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

RE: **Cliffs Unit 18 SAD 228**
6516 Pato Rd. NW
Grading and Drainage Plan
Engineers Stamp Date 5/12/2020 (D10D003E1)
Pad Certification Date: 6/30/2020

Mr. Greer,

Based upon the information provided in your submittal received 7/6/2020, this plan is approved for Building Permit.

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

Prior to Building permit approval a Pad Certification will be required, provided by the Engineer or a registered Land Surveyor.

Reiterate to the Owner/Contractor that a separate permit for a garden/retaining wall must be obtained with the approved G&D plan and Pad Certification. **Also, if a swimming pool is to be placed the grading and drainage plan will change and will need to be resubmitted.**

Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist 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

PO Box 1293
Albuquerque
NM 87103
www.cabq.gov

													DRAIN TO FRONT LOT AREA (sq. ft.)	DRAIN TO REAR LOT AREA (sq. ft.)	Q100 TO FRONT LOT (cfs)	Q100 TO REAR LOT (cfs)
Project Name:	Pulte Lot ID 11						Q100 /ACRE (CFS/Ac.) (1)	Q100 (cfs) (3)		DMP % (2)	DMP Q100 (cfs) (4)					
Project Address:	6428 Canavio Rd				AREA (SF)	% AREA										
Pulte Site ID:	Lot 11			A	0	0.0%	1.29	0.00		0.0%	0.00		0	0	0.00	0.00
Site Area	(sq. ft.)	11867		B	3233.5	27.2%	2.03	0.15		10.0%	0.06		800	2433.5	0.04	0.11
				C	3233.5	27.2%	2.87	0.21		40.0%	0.31		800	2433.5	0.05	0.16
House Area	(sq. ft.)	3500		D	5400	45.5%	4.37	0.54		50.0%	0.60		600	4800	0.06	0.48
Driveway Area	(sq. ft.)	400		**TOTAL**	**11867**	**100.00%**		**0.91**			**0.96**			**9667**	**0.15**	**0.76**
Other Imp Area	(sq. ft.)	1500														
Total Imp. Area:		**5400**		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 (%D)	*Runoff Depth (inches)*	*Runoff Rate (cfs/ac)*	*Runoff Volume (cubic*
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	1.35	1037
100	0.46	1.5	1670

Existing Conditions: The existing site is not within a designated flood zone. The site surface drains to Urraca St NW.

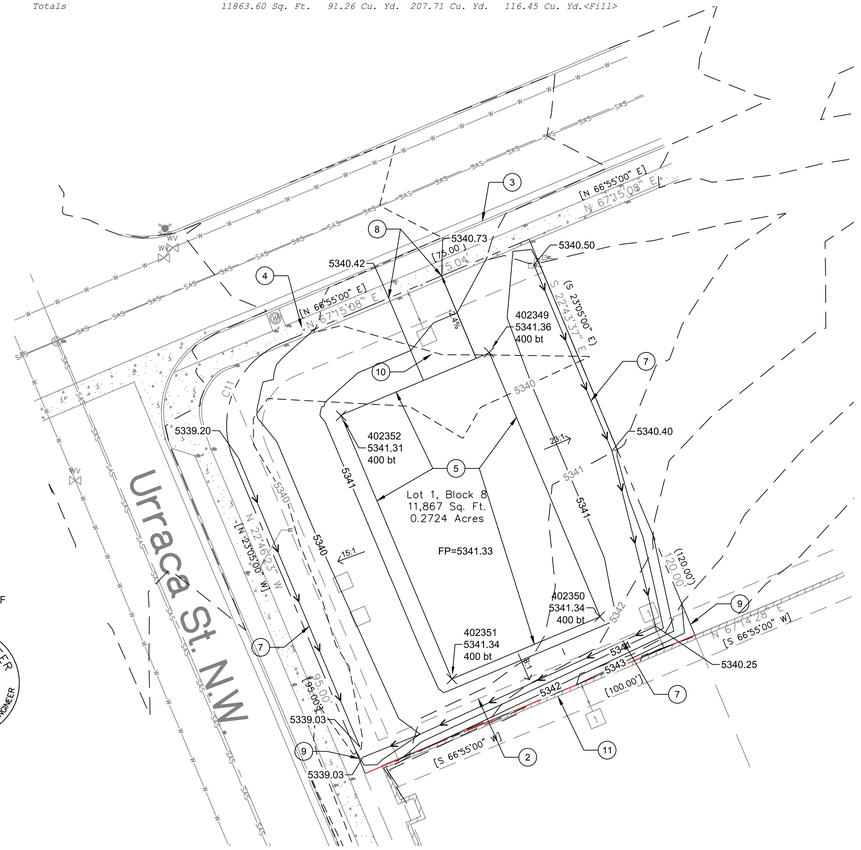
Proposed Conditions: The proposed site improvements will include the construction of a single family residence with landscaping and onsite improvements. In accordance with the SAD 228 drainage management plan for unit 19, the runoff will free discharge allowable discharge.
The allowable discharge was determined by analysis of the basin including the lot. The land use percentages of the basin were apportioned between roadways and lots based on area. The roof, driveway, and an additional 1500 SQ. FT. for structure improvements are included in the impervious area percentage for the lot.

Table Interpolation:	Site Area (sq. ft.)	Site Area (ac.)	Imp. Area (Sq. Ft.)	% Imp		Runoff Vol. (per ac.) 0-20	20-40	40-60	60-80	80-100	
	11867	0.27	5400	45.5%	45.5	0	0	743.0	0	0	-
					Total Water Quality Volume Required:			**743.0**			
					Provided:			**0.0**			

1.65 Inches of runoff from Imp. Area

Cut/Fill Summary

Name	*Cut Factor*	*Fill Factor*	*2d Area*	*Cut*	*Fill*	*Net*
VOL FG	***1.00***	***1.00***	*11863.60 Sq. Ft.*	*91.26 Cu. Yd.*	*207.71 Cu. Yd.*	*116.45 Cu. Yd.<Fill>*
Totals			*11863.60 Sq. Ft.*	*91.26 Cu. Yd.*	*207.71 Cu. Yd.*	*116.45 Cu. Yd.<Fill>*



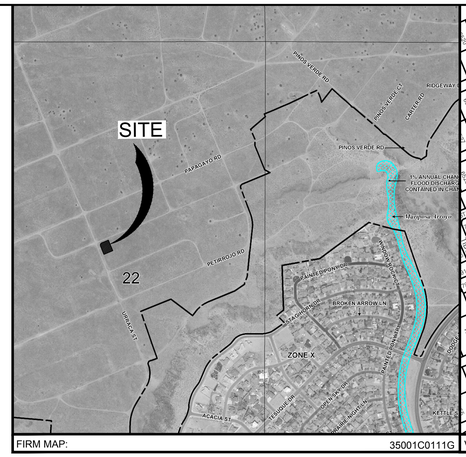
PAD CERTIFICATION

I SHELDON GREER P.E., NMPE 17154, OF THE ENGINEERING FIRM RESPEC, HEREBY CERTIFY, BASED ON SURVEY DATA PROVIDED BY BRIAN MARTINEZ, NMRPS 18374, THAT THE AS CONSTRUCTED PAD ELEVATION IS WITHIN 0.2' OF THE DESIGN ELEVATION AND THAT THE HORIZONTAL LIMITS OF THE AS CONSTRUCTED PAD ARE AS SHOWN.

SHELDON E. GREER, PE 17154

6/30/2020
DATE

SHELDON E. GREER NEW MEXICO 17154 LICENSED PROFESSIONAL ENGINEER



FIRM MAP: 35001C0111G

VICINITY MAP: D-10-Z

GENERAL NOTES:

1. 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.
2. 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.
3. THE DRAINAGE INFRASTRUCTURE SHOWN ON THIS PLAN IS THE RESPONSIBILITY OF THE PROPERTY OWNER.
4. ALL DISTURBED AREAS OUTSIDE THE BUILDING PAD MUST BE RESEEDED OR LANDSCAPED.
5. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, (260-1990) FOR LOCATION OF EXISTING UTILITIES.
6. 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.

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 LINE 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:

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

0 20 40
SCALE: 1" = 20'

(-) KEYED NOTES

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

DESIGNED SEG
DRAWN JT
CHECKED SEG
DATE 6.30.2020

REVISION

RESPEC
5971 Jefferson Street Suite 101
Albuquerque, New Mexico 87109
Water and Natural Resources
respec.com 505.253.9718

STAMP

SHELDON E. GREER NEW MEXICO 17154 LICENSED PROFESSIONAL ENGINEER 6/12/2020

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

nm811 Know what's below. Call before you dig.

PROJECT NAME: VOLCANO CLIFFS 6428 CANAVIO RD NW PULTE ID 11

SHEET TITLE: GRADING AND DRAINAGE PLAN

SUBMITTED FOR: GRADING PERMIT

SHEET NUMBER: 1 OF 1

NAME: L:\Active Projects\04016 Pulte Volcano Cliffs\3. DWG\Sheets\11_6428 Canavio Rd.dwg PLOT DATE: Jun 30, 2020 1:00pm