

# CITY OF ALBUQUERQUE

Planning Department  
Brennon Williams, Director



Mayor Timothy M. Keller

November 3, 2020

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

RE: **Lot 13 Block 1 Volcano Cliffs Unit 22 SAD 228  
8001 Agua Fria NW  
Grading and Drainage Plan  
Engineers Stamp Date 10/29/2020 (D10D003N13)**

Mr. Greer,

Based upon the information provided in your submittal received 11/2/2020, this plan is approved for Grading 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](http://www.cabq.gov)



# 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: \_\_\_\_\_



Site Area	(sq. ft.)	14000
House Area	(sq. ft.)	5170
Driveway Area	(sq. ft.)	500
Other Imp Area	(sq. ft.)	1500
<b>Total Imp. Area:</b>		<b>7170</b>

						DRAIN TO FRONT	DRAIN TO REAR	Q100 TO FRONT	Q100 TO REAR
	AREA	% AREA	Q100 /ACRE (cfs/ac.)	Q100 (cfs)	DMP %	DMP Q100 (cfs)	LOT AREA (sq. ft.)	LOT FRONT LOT (cfs)	LOT REAR LOT (cfs)
	(SF)		(1)	(3)	(2)	(4)	(sq. ft.)	(cfs)	(cfs)
A	0	0.0%	1.29	0.00	0.0%	0.00	0	0	0.00
B	3415	24.4%	2.03	0.16	10.0%	0.07	300	3115	0.01
C	3415	24.4%	2.87	0.23	40.0%	0.37	300	3115	0.02
D	7170	51.2%	4.37	0.72	50.0%	0.70	600	6570	0.06
TOTAL	14000	100.00%		1.10		1.14	12800	0.09	1.60

Existing Conditions:

Proposed Conditions:

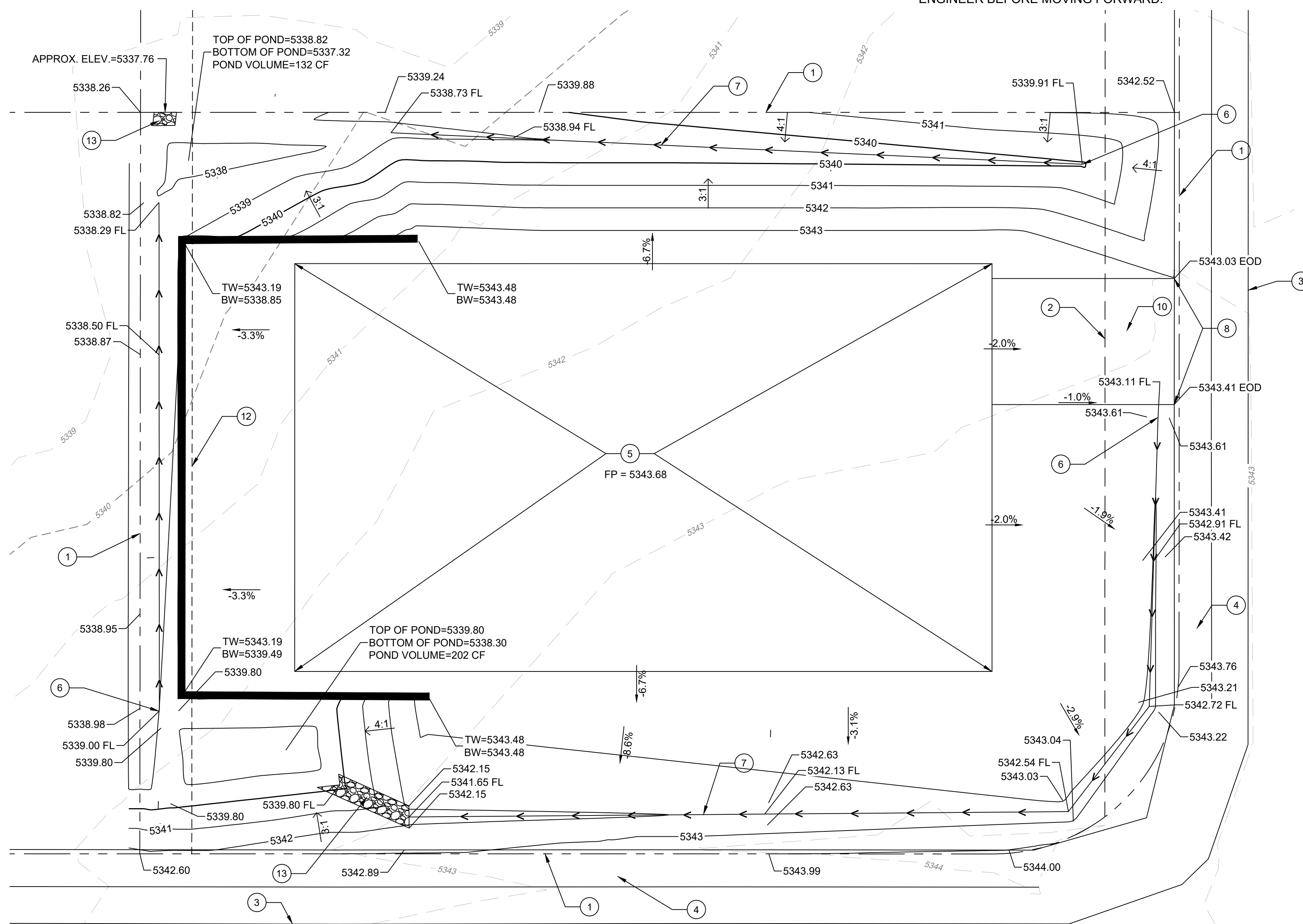
<b>Percent Impervious (%D)</b>	<b>Runoff Depth (inches)</b>	<b>Runoff Rate (cfs/ac)</b>	<b>Runoff Volume (cubic feet/ac)</b>
0	0	0	0
20	0.09	0.5	327
40	0.18	0.8	653
60	0.27	1.2	980
80	0.36	1.35	1037
100	0.46	1.5	1670

Table Interpolation:	Site Area (sq. ft.)	Site Area (ac.)	Imp. Area (sq. ft.)	% Imp	KUMON Vol. (per ac.)					
					0-20	20-40	40-60	60-80	80-100	
					0	0	836.4	0	0	
	14000	0.32	7170	51.2%	51.2					
Total Water Quality Volume Required:								268.8		
Provided:								334.0		

0.45 Inches of runoff from Imp. Area

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
VOLUME	1.00	1.25	13983.26 Sq. Ft.	213.93 Cu. Yd.	479.92 Cu. Yd.	266.00 Cu. Yd.<Fill>
Totals			13983.26 Sq. Ft.	213.93 Cu. Yd.	479.92 Cu. Yd.	266.00 Cu. Yd.<Fill>

**NOTE:**  
CONTRACTOR SHOULD VERIFY IN THE FIELD THE EDGE OF DRIVEWAY ELEVATION (EOD) BEFORE CONSTRUCTION. IF ANY DISCREPANCY BETWEEN FIELD ELEVATION AND G&D PLAN ELEVATION, CONTACT ENGINEER BEFORE MOVING FORWARD.



FIRM MAP:

35001C012G

D-10-Z

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 RESEEDING 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 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.

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 ALL 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.**

TW = TOP OF WALL  
FG = FINISHED GROUND  
EG = EXISTING GROUND  
FL = FLOW LINE  
EOD = EDGE OF DRIVEWAY  
FP = FINISHED PAD  
TOB = TOP OF BERM

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 WALLS ARE ENCOUNTERED.)
12. EXISTING 7" PUE
13. 6" RIPRAP RUNDOWN

SHEET NUMBER:	SUBMITTED FOR:	SHEET TITLE:	PROJECT NAME:	<p><b>GRADING AND DRAINAGE PLAN</b></p> <p><b>GRADING PERMIT</b></p>	<p>DESIGNED BY</p> <p>DRAWN BY</p> <p>CHECKED BY</p> <p>DATE</p>	<p>DESIGNED BY</p> <p>DRAWN BY</p> <p>CHECKED BY</p> <p>DATE</p>	<p>REVISION</p>
					<p>10/28/2020</p>	<p>10/28/2020</p>	



**RESPEC**


COMMUNITY DESIGN SOLUTIONS

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ALBUQUERQUE, NEW MEXICO 87118

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STAMP



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



Know what's below.  
Call before you dig.

**GRADING AND DRAINAGE PLAN**

**GRADING PERMIT**

**PROJECT NAME:**

**PETROGLYPH ESTATES**

**8001 AGUA FRIA CT**

**PULTE ID 13**

**SHEET TITLE:**

**GRADING AND DRAINAGE PLAN**

**SHEET NUMBER:**

1 OF 1