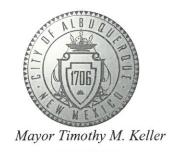
CITY OF ALBUQUERQUE

Planning Department
David Campbell, Director



January 28, 2019

David Soule, P.E. Rio Grande Engineering PO Box 93924 Albuquerque, New Mexico 87199

RE: Lot 7 Block 8 Unit 5 S.A.D. 227 6201 Kayenta Rd. NW Grading and Drainage Plan Engineers Stamp Date 1/25/19 (E10D051)

Dear Mr. Soule,

Based upon the information provided in your submittal received 1/25/19, this plan is approved for Grading Permit. Please inform the builder/owner to attach a copy of this approved plan and letter into the construction sets in the permitting process prior to sign-off by Hydrology.

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

Prior to Building Permit approval, a **Pad Certification** will be required. Inform the contractor/owner not to pile dirt in the street as a ramp to climb the curb. If dirt is found in the street the pad cert. will be denied.

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.

Sincerely,

James D. Hughes, P.E./ Principal Engineer, Hydrology

Planning Department

RR/JDH

C: Data Base E10D051

Albuquerque - Making History 1706-2006

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: MALLAK RESIDENCE			
DRB#:	EPC#:	Work	Order#:
Legal Description: LOT 16 BLOCK 1			
City Address: 6809 RIMROCK			
		Contact:	·
Address:			
Phone#:	Fax#:	E-mail:	
Other Contact: RIO GRANDE ENGINE Address: PO BOX 93924 ALB NM	ERING 87199	Contact	DAVID SOULE
Phone#: 505.321.9099	***	99 E-mail:	david@riograndeengineering.com
TYPE OF DEVELOPMENT: PLAT	X RESIDENCI	E DRB SITE	_ ADMIN SITE
Check all that Apply:			
DEPARTMENT: X HYDROLOGY/ DRAINAGE TRAFFIC/ TRANSPORTATION	_x	PE OF APPROVAL/ACCE BUILDING PERMIT APP	ROVAL
TYPE OF SUBMITTAL:		_ CERTIFICATE OF OCCU	PANCY
ENGINEER/ARCHITECT CERTIFICATION	·	_ PRELIMINARY PLAT AI	PPROVAL
X PAD CERTIFICATION		_ SITE PLAN FOR SUB'D	APPROVAL
CONCEPTUAL G & D PLAN		_ SITE PLAN FOR BLDG.	PERMIT APPROVAL
GRADING PLAN		_ FINAL PLAT APPROVA	L
DRAINAGE REPORT			
DRAINAGE MASTER PLAN		_ SIA/ RELEASE OF FINAL	NCIAL GUARANTEE
FLOODPLAIN DEVELOPMENT PERMIT A	PPLIC	_ FOUNDATION PERMIT .	APPROVAL
ELEVATION CERTIFICATE		_ GRADING PERMIT APP	ROVAL
CLOMR/LOMR	<u></u>	_ SO-19 APPROVAL	
TRAFFIC CIRCULATION LAYOUT (TCL)		_ PAVING PERMIT APPRO	OVAL
TRAFFIC IMPACT STUDY (TIS)		_ GRADING/ PAD CERTIF	TICATION
STREET LIGHT LAYOUT		_ WORK ORDER APPROVA	L
OTHER (SPECIFY)	. —	_ CLOMR/LOMR	
PRE-DESIGN MEETING?		_ FLOODPLAIN DEVELOP	
IS THIS A RESUBMITTAL?: X Yes No		_OTHER (SPECIFY)	
DATE SUBMITTED:	*		
COA STAFF:	ELECTRONIC SUBMIT	FAL RECEIVED:	_
	FEE PAID:		

Weighted E Method

												100-Ye	ar, 6-hr.
Basin	Area	Area	Treat	ment A	Treat	ment B	Treati	ment C	Treat	ment D V	Veighted I	Volume	Flow
	(sf)	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	(ac-ft)	(ac-ft)	cfs
ALLOWED	13700.00	0.315	0%	0	26%	0.082	40%	0.1258	34%	0.107	1.240	0.032	0.99
PROPOSED	13700.00	0.315	0%	0	25%	0.079	27%	0.0849	48%	0.151	1.380	0.036	1.06
total													

Equations:

Weighted $E = Ea^*Aa + Eb^*Ab + Ec^*Ac + Ed^*Ad / (Total Area)$

Volume = Weighted D * Total Area

Flow = Qa * Aa + Qb * Ab + Qc * Ac + Qd * Ad

Where for 100-year, 6-hour storm- zone 1	
Ea= 0.44	Qa= 1.29
Eb= 0.67	Qb= 2.03
Ec= 0.99	Qc= 2.87
Ed= 1.97	Qd= 4.37

ONSITE Conditions

PONDING REQUIREMENTS

REQUIRED	PROVIDE
(CF)	(CF)
186	415
160	415
	(CF) 186

Narrative

This site is within the SAD 227 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the the adjacent roadway per the master drainage plan. We are ponding the water harvest volume generated by the site we are allowing the upland flow to pass thru the site. This plan has a shallow water harvest pond in excess of the drainage regulations. The site is impacted by minor upland flows from the adjacent undeveloped lot. These flows are allowed to enter the site and when the lots develop the flows will not enter this site. This plan generate flow in excess of master drainage plan developed conditions assumption. Therefor the excess is retained

I, DAVID SOULE HAVE PERSONALLY INPECTED THE SITE. I HEREBY CERTIFY THE PAD HAS BEEN CONSTRUCTED SUCH THAT IT IS IN SUBSTANTIAL CONFORMANCE TO THE APPROVED GRADING PLAN DATED12/16/18



1/24/19

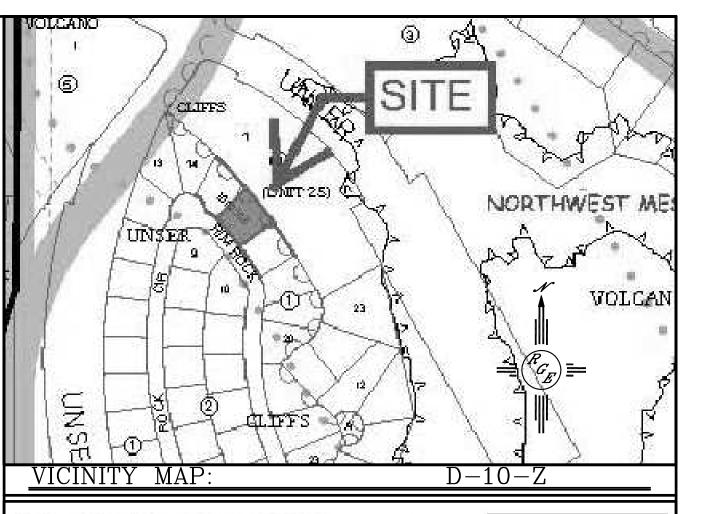
90.14' | 1550.34' N37'54'46"W | 90.13' | 15.78' 100.00' N44*10'11"W 15.76'

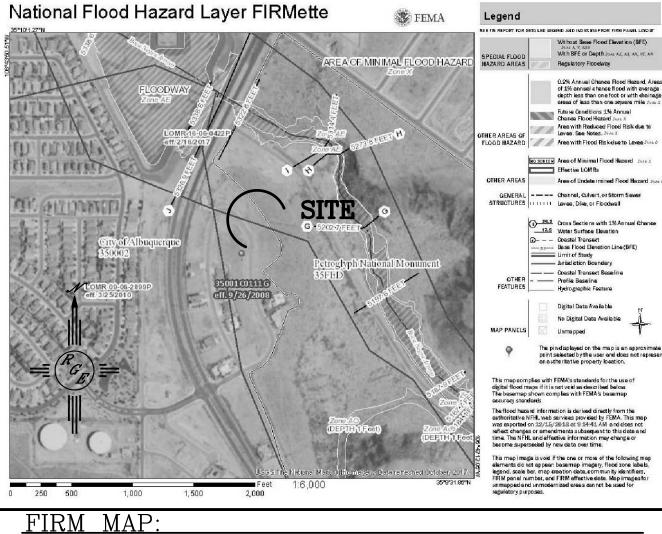
123.20' 1670.34' N38*20'30"W 123.17'

C3 413'33"

EROSION CONTROL NOTES:

- 1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING 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 RESPONSIBILITY OF THE CONTRACTOR.
- 5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.





LEGAL DESCRIPTION: LOT 16, BLOCK 1, UNSER CLIFFS UNIT 18

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE

2. ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.

LEGEND

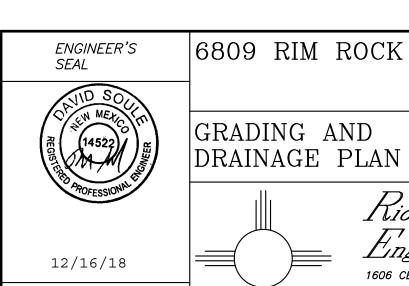
SCALE: 1"=20'

---- EXISTING CONTOUR ---- EXISTING INDEX CONTOUR — PROPOSED CONTOUR PROPOSED INDEX CONTOUR SLOPE TIE EXISTING SPOT ELEVATION × XXXX × XXXX PROPOSED SPOT ELEVATION BOUNDARY CENTERLINE RIGHT-OF-WAY

PROPOSED CMU SCREEN WALL(W/18" MAXIMUM RETAINAGE)

DRAWN

218157



P.E. #14522

BY WCWJ 12-16-18 DRAINAGE PLAN 218157-LAYOUT-12-16-SHEET # Rio Grande ___ Lingineering 1606 CENTRAL AVENUE SE JOB # ALBUQUERQUE, NM 87106 (505) 872-0999 DAVID SOULE

TURN BLOCK@5326.50 ×5326.12 *5326.49 5326.45* BUILD FIRST FLUSH POND TOP=5325.80-BOTTOM=5325.00 REQUIRED VOLUME= 194 CU. FT. 5327.00 5326.63 5327.00 \$ 5326.50 OPENFENCING OR ROVIDE TURNED BLOCKS AT PROPERTY LINE @5324.50 IF Project Benchmark Fnd "X" Scribe CMU WALL LOT OVERFLOW_ 5326.50 @5326.35 2-4 PVC PIPE INVERT \$325.00 CONSTRUCT 31' DRIVEWAY AND SIDEWALK PER COA STD DWG #2405, 2425, 2430 LOT OVERFLOW **9** 5325.70 BUILD FIRST FLUSH POND TOP=5325.80 BOTTOM=5325.00 REQUIRED VOLUME=221 CU. FT.

CAUTION: EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.