

# CITY OF ALBUQUERQUE

*Planning Department*  
Brennon Williams, Director



*Mayor Timothy M. Keller*

July 22, 2021

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

RE: **8700 Sunbow Ave. SW**  
**Grading and Drainage Plan**  
**Engineers Stamp Date 7/7/2021**  
**(L09D012A)**

Mr. Soule,

Based upon the information provided in your submittal received 7/7/2021, this plan is approved for Building Permit by hydrology.

PO Box 1293

**Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist is required.**

Albuquerque

If you have any questions, please contact me at 924-3986 or [earmijo@cabq.gov](mailto:earmijo@cabq.gov).

NM 87103

Sincerely,

[www.cabq.gov](http://www.cabq.gov)

Ernest Armijo, P.E.  
Principal Engineer, Planning Dept.  
Development Review Services



# City of Albuquerque

Planning Department  
Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

**Project Title:** 6700 SUNBOW **Building Permit #:** \_\_\_\_\_ **Hydrology File #:** \_\_\_\_\_  
**DRB#:** \_\_\_\_\_ **EPC#:** \_\_\_\_\_ **Work Order#:** \_\_\_\_\_  
**Legal Description:** LOT 18P1, BLOCK 2 SUNSET WEST UNIT 3  
**City Address:** 6700 SUNBOW

**Applicant:** \_\_\_\_\_ **Contact:** \_\_\_\_\_  
**Address:** \_\_\_\_\_  
**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

**Other Contact:** RIO GRANDE ENGINEERING **Contact:** DAVID SOULE  
**Address:** PO BOX 93924 ALB NM 87199  
**Phone#:** 505.321.9099 **Fax#:** 505.872.0999 **E-mail:** david@riograndeengineering.com

**TYPE OF DEVELOPMENT:** \_\_\_\_\_ PLAT ☒ RESIDENCE \_\_\_\_\_ DRB SITE \_\_\_\_\_ ADMIN SITE

Check all that Apply:

**DEPARTMENT:**  
☒ HYDROLOGY/ DRAINAGE  
\_\_\_\_\_ TRAFFIC/ TRANSPORTATION

**TYPE OF SUBMITTAL:**  
\_\_\_\_\_ ENGINEER/ARCHITECT CERTIFICATION  
\*\* ☒ PAD CERTIFICATION  
\_\_\_\_\_ CONCEPTUAL G & D PLAN  
☒ GRADING PLAN  
\_\_\_\_\_ DRAINAGE REPORT  
\_\_\_\_\_ DRAINAGE MASTER PLAN  
\_\_\_\_\_ FLOODPLAIN DEVELOPMENT PERMIT APPLIC  
\_\_\_\_\_ ELEVATION CERTIFICATE  
\_\_\_\_\_ CLOMR/LOMR  
\_\_\_\_\_ TRAFFIC CIRCULATION LAYOUT (TCL)  
\_\_\_\_\_ TRAFFIC IMPACT STUDY (TIS)  
\_\_\_\_\_ STREET LIGHT LAYOUT  
\_\_\_\_\_ 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) \_\_\_\_\_

IS THIS A RESUBMITTAL?: \_\_\_\_\_ Yes ☒ No

\*\* SITE WAS PREVIOUSLY GRADED AND FORM WERE PRESENT, EXISTING PAD GRADE USED

**DATE SUBMITTED:** \_\_\_\_\_ **By:** \_\_\_\_\_

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: \_\_\_\_\_

FEE PAID: \_\_\_\_\_



Weighted E Method

Basin	Area (sf)	Area (acres)	Treatment A				Treatment B				Treatment C				Treatment D				100-Year, 6-Hr			100 yr 10-DAV		
			%	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs	Volume (ac-ft)		
Historical	10015.00	0.230		0	50%	0.115	50%	0.115	0%	0.000		0.915	0.013	0.62		0.018		0.62	0.915	0.009	0.31	0.018		
FRONT PROPOSED	4862.00	0.112	0%	0	13%	0.015	18%	0.020	69%	0.077		0.935	0.009	0.31		0.016		0.31	0.935	0.009	0.31	0.016		
REAR PROPOSED	5153.00	0.118	0%	0	30%	0.035	46%	0.054	24%	0.028		1.273	0.013	0.39		0.015		0.39	1.273	0.013	0.39	0.015		

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(zone2)

Ea= 0.62  
Eb= 0.8  
Ec= 1.03  
Ed= 2.33

Qa= 1.56  
Qb= 2.28  
Qc= 3.14  
Qd= 4.7

Developed Conditions

PROPOSED TO STREET	TOTAL VOLUME GENERATED	PROVIDED	PEAK FLOW OFFSITE
PROPOSED REAR	681 CF	0	0.016 CFS
	658 CF	0	0.015 CFS

This site is an development of a lot in a fully developed area. The site used to be a public drainage pond. The pond was reclaimed as governed by (L-09-D012A).The existing lots all free discharge. Based upon the approved grading plan a portion of the lot is to drain to the street and the rear shall drain to an existing opening in the southern wall that was utilized as a emergency overflow for the previously maintained pond. The public drainage easement will not be impeded as the storm drain inlet is in sump condition and this easement serves emergency overflow.

EROSION CONTROL NOTES:

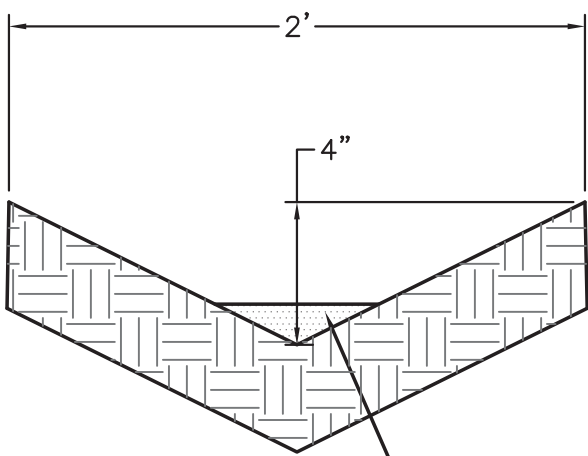
1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.

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.



PLACE 3/4" GRAVEL AT FLOWLINE FOR EROSION PROTECTION

EARTHEN SWALE DETAIL

NTS

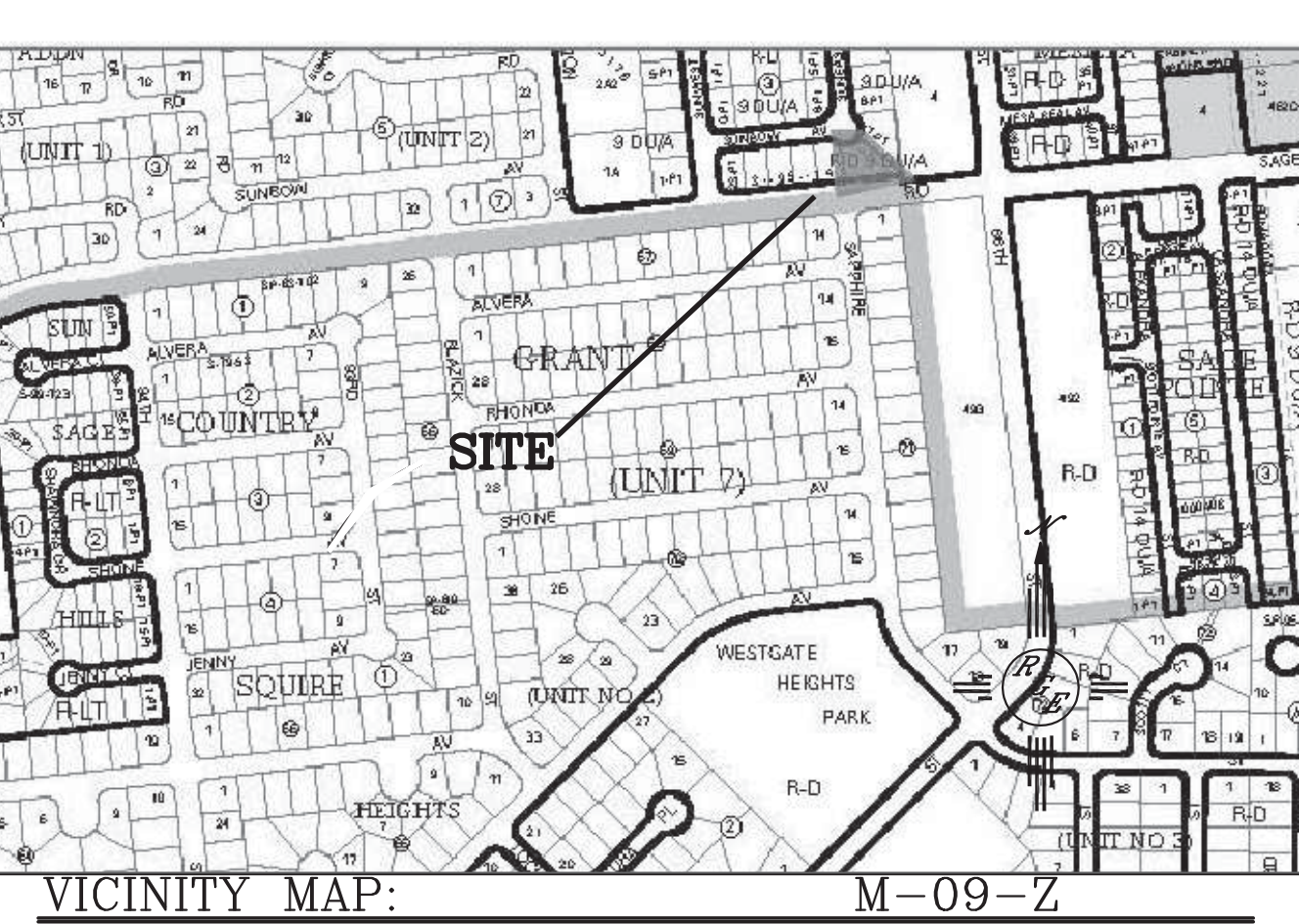
City of Albuquerque  
Planning Department  
Development Review Services  
HYDROLOGY SECTION  
**APPROVED**

DATE: 7/22/2021

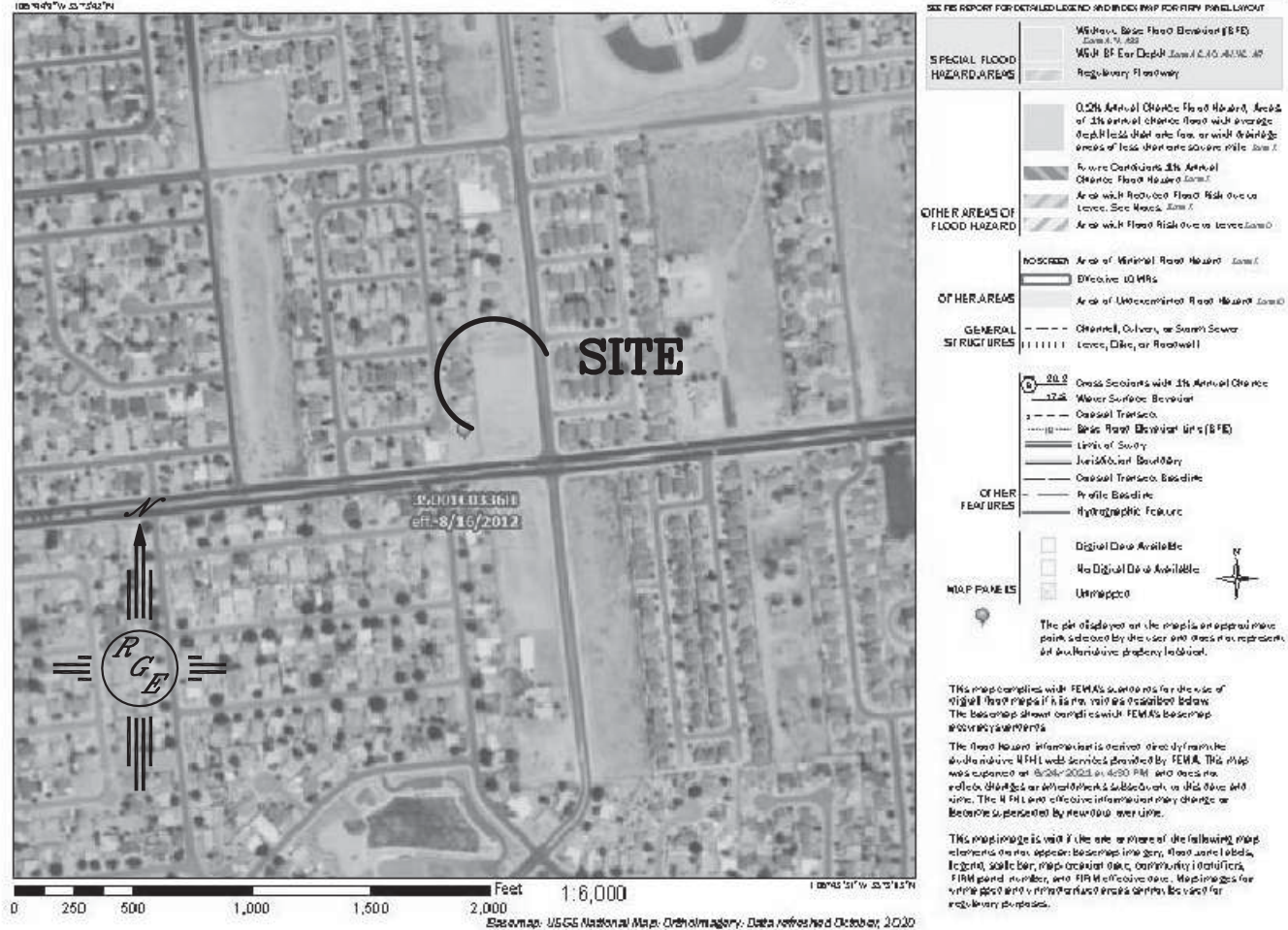
BY: Ernest Armijo

HydroTrans # L09D012A

THE APPROVAL OF THESE PLANS/REPORT SHALL NOT BE  
CONSIDERED TO BE A GUARANTEE OF THE ACCURACY OF ANY CITY  
ORDINANCE OR STATE LAW, AND SHALL NOT PREVENT  
THE CITY OF ALBUQUERQUE FROM EXERCISING  
ITS POLICE OR OTHER LEGAL POWERS TO ENFORCE  
SPECIFICATIONS, OR CONSTRUCTIONS, SUCH APPROVED PLANS  
SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT  
AUTHORIZATION.



National Flood Hazard Layer FIRMette



FIRM MAP:

LEGAL DESCRIPTION:

LOT 18-P1 BLOCK 2 SUNSET WEST UNIT 3

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.

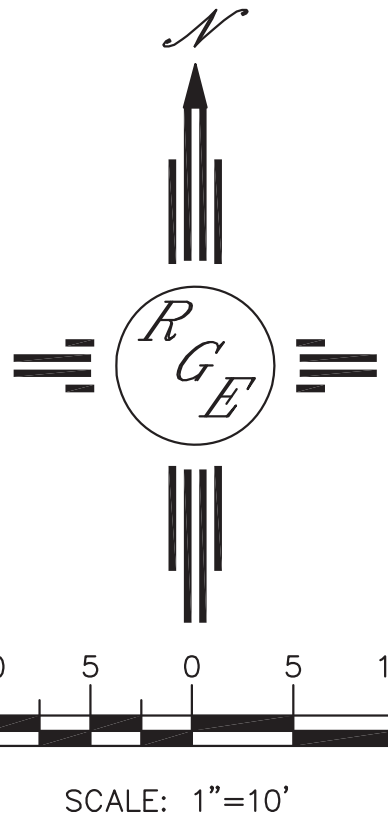
2. ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.

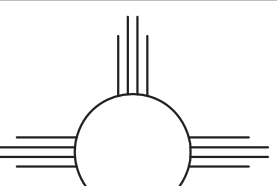
LEGEND

-----XXXX-----	EXISTING CONTOUR
-----XXXX-----	EXISTING INDEX CONTOUR
-----XXXX-----	PROPOSED CONTOUR
-----XXXX-----	PROPOSED INDEX CONTOUR
-----XXXX-----	SLOPE TIE
+ XXXX	EXISTING SPOT ELEVATION
+ XXXX	PROPOSED SPOT ELEVATION
-----	LOT LINE
-----	CENTERLINE
-----	RIGHT-OF-WAY
-----	PROPOSED 4" PVC SD
=====	GRAVEL LINED SWALE
=====	EXISTING CURB AND GUTTER
=====	EXISTING WALL

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.



ENGINEER'S SEAL  DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER  7/7/21  DAVID SOULE P.E. #14522	8700 SUNBOW	DRAWN BY: WCVJ
	GRADING AND DRAINAGE PLAN	DATE 6-25-21 210210063-LAYOUT-6-25-21
 Rio Grande Engineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	SHEET # —	JOB # 21021063