

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

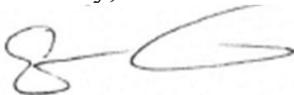
Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist is required.

Albuquerque

If you have any questions, please contact me at 924-3986 or earnijo@cabq.gov.

NM 87103

Sincerely,



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 APPROVAL/ACCEPTANCE SOUGHT:

BUILDING PERMIT APPROVAL
___ CERTIFICATE OF OCCUPANCY

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?

___ 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				100-Year, 6-Hr				100 yr 10-MPH			
			% (acres)	% (acres)	% (acres)	% (acres)	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs	Volume (ac-ft)	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	0.018	0.62	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	
REAR PROPOSED	5153.00	0.118	0%	0	30%	0.035	46%	0.054	24%	0.028	1.273	0.013	0.39	

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

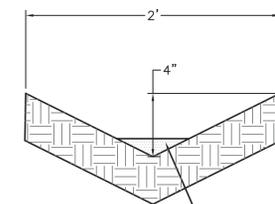
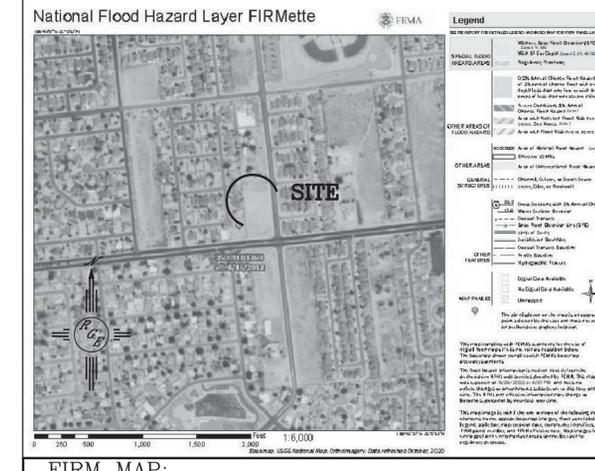
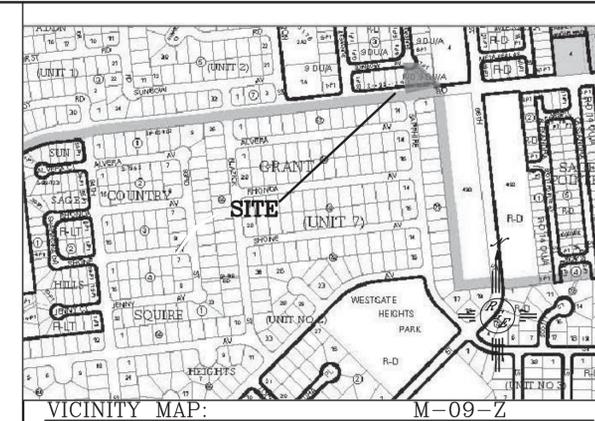
Developed Conditions

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

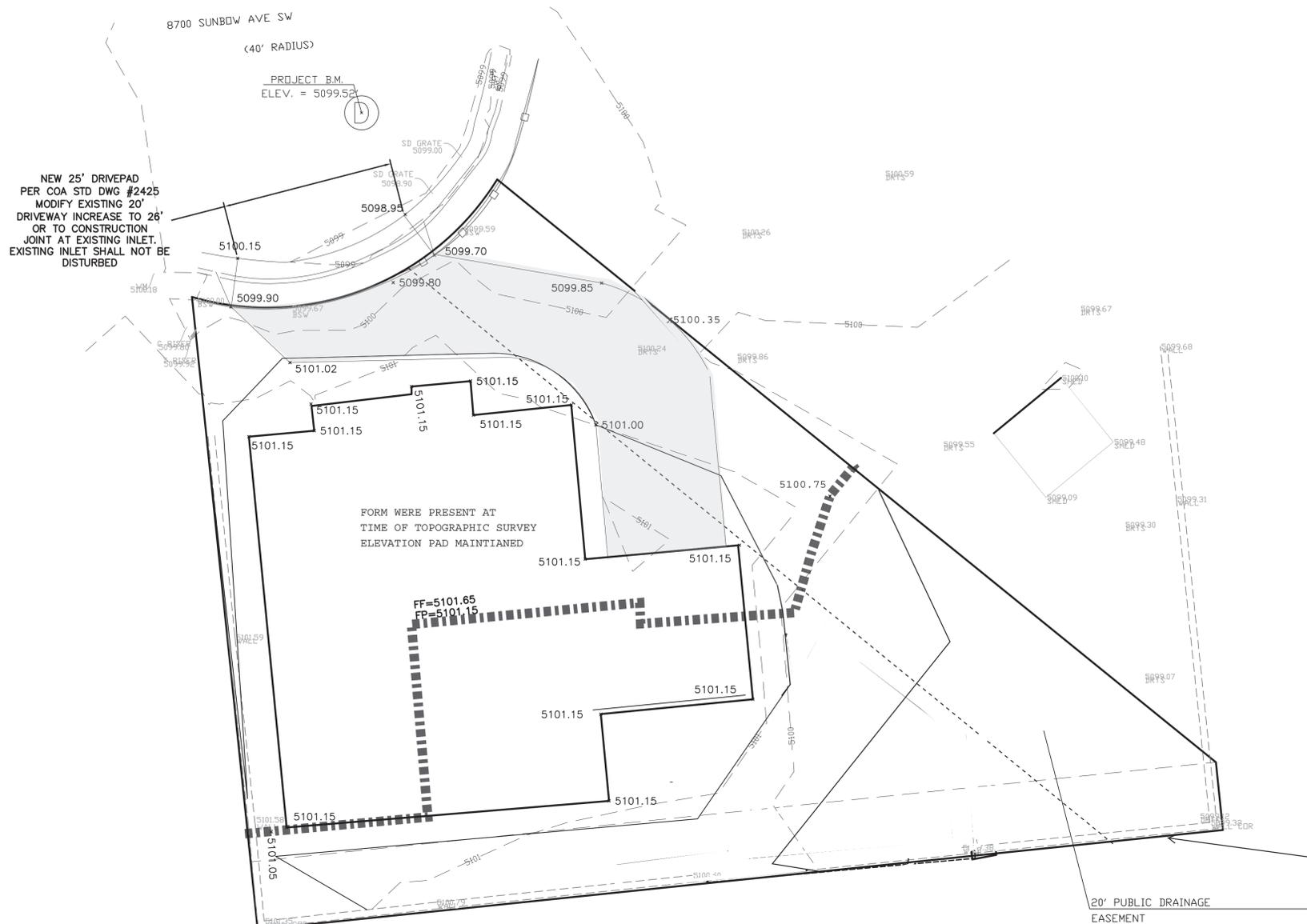


EARTHEN SWALE DETAIL

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 DOES NOT CONSTITUTE AN ENDORSEMENT OR GUARANTEE OF THE ACCURACY OF THE INFORMATION PROVIDED HEREON. THE CITY OF ALBUQUERQUE SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE, LOSS, OR INJURY RESULTING FROM THE USE OF THESE PLANS. THE USER OF THESE PLANS SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND AUTHORIZATIONS FROM THE APPROPRIATE AGENCIES.



EXISTING OVERFLOW OPENING MUST REMAIN AS EMERGENCY OVERFLOW FOR EXISTING STORM DRAIN

20' PUBLIC DRAINAGE EASEMENT

(CITY OF ABO DEDICATED R-W)

LEGEND

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

ENGINEER'S SEAL DAVID SOULE P.E. #14522	8700 SUNBOW	DRAWN BY WCVJ
	GRADING AND DRAINAGE PLAN	DATE 6-25-21
		21021063-LAYOUT-6-25-21
		SHEET #
		JOB # 21021063

7/7/21

Rio Grande Engineering
 1606 CENTRAL AVENUE SE
 SUITE 201
 ALBUQUERQUE, NM 87106
 (505) 972-0998

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.

