

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

June 28, 2023

David Soule, P.E.
Rio Grande Engineering
P.O. Box 93924
Albuquerque, NM 87199

**RE: 709 Towner Ave NW
Grading and Drainage Plan
Engineer's Stamp Date: 06/20/23
Hydrology File: H14D006**

Dear Mr. Soule:

Based upon the information provided in your submittal received 06/20/2023, the Grading and Drainage Plan is approved for Building Permit and Grading Permit. **Since this site is relatively flat and grades to the road, a pad certification is not needed for this project.** Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

PRIOR TO CERTIFICATE OF OCCUPANCY:

1. Engineer's Certification, per the DPM Part 6-14 (F): Engineer's Certification Checklist For Non-Subdivision is required.

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

Sincerely,

Renée C. Brissette, P.E. CFM
Senior Engineer, Hydrology
Planning Department



City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: 709 TOWNER NE **Building Permit #:** _____ **Hydrology File #:** _____
DRB#: _____ **EPC#:** _____ **Work Order#:** _____
Legal Description: LOTS 49 AND 50, BLOCK 2 TOWNER ADDITION
City Address: 709 TOWNER NE

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?

IS THIS A RESUBMITTAL?: _____ Yes ☒ No

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: _____

Weighted E Method												
Basin	Area (sf)	Area (acres)	Treatment A		Treatment B		Treatment C		Treatment D		100-Year, 6-hr	
			%	(acres)	%	(acres)	%	(acres)	%	(acres)	Weighted E (ac-ft)	Volume (ac-ft)
HISTORICAL	7230.00	0.166	0%	0	50%	0.083	30%	0.050	20%	0.033	1.098	0.015
REAR	4380.00	0.114	0%	0	32%	0.037	50%	0.057	18%	0.021	1.112	0.011
FRONT	2250.00	0.052	0%	0	20%	0.010	30%	0.015	50%	0.026	1.551	0.007
												0.17
												0.008

Equations:

Weighted E = Ea**A*a + Eb**A*b + Ec**A*c + Ed**A*d / (Total Area)

Volume = Weighted D * Total Area

Flow = Qa * *A*a + Qb * *A*b + Qc * *A*c + Qd * *A*d

Where for 100-year, 6-hour storm(zone1)

Ea= 0.55
Eb= 0.73
Ec= 0.95
Ed= 2.24

Qa= 1.54
Qb= 2.16
Qc= 2.87
Qd= 4.12

Developed Conditions	TOTAL VOLUME GENERATED	RETAINED
DISCHARGE PROPOSED	0.50 CFS	887 CF
EXISTING DISCHARGE	0.46 CFS	758 CF
DIFFERENCE	0.04 CFS	129.02 CF
FLOW TO STREET	0.17	365.81 CF
FLOW TO REAR	0.33	521.157 CF

This site is a redevelopment of a previously developed lot. The existing house was demolished at some point in the past (1959 areal on GIS shows).There is no master drainage plan for this area, all lots currently free discharge. The drainage solution is to retain the increase in flow generated by the redevelopment based upon the 24 hour volumes. The front ponds will overflow to the street and the rear pond retains well in excess the generated flow and will overflow historical in emergency.

City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED
DATE: 06/28/23
BY: *Randy C. Bruneau*
HydroTeam # H14D006

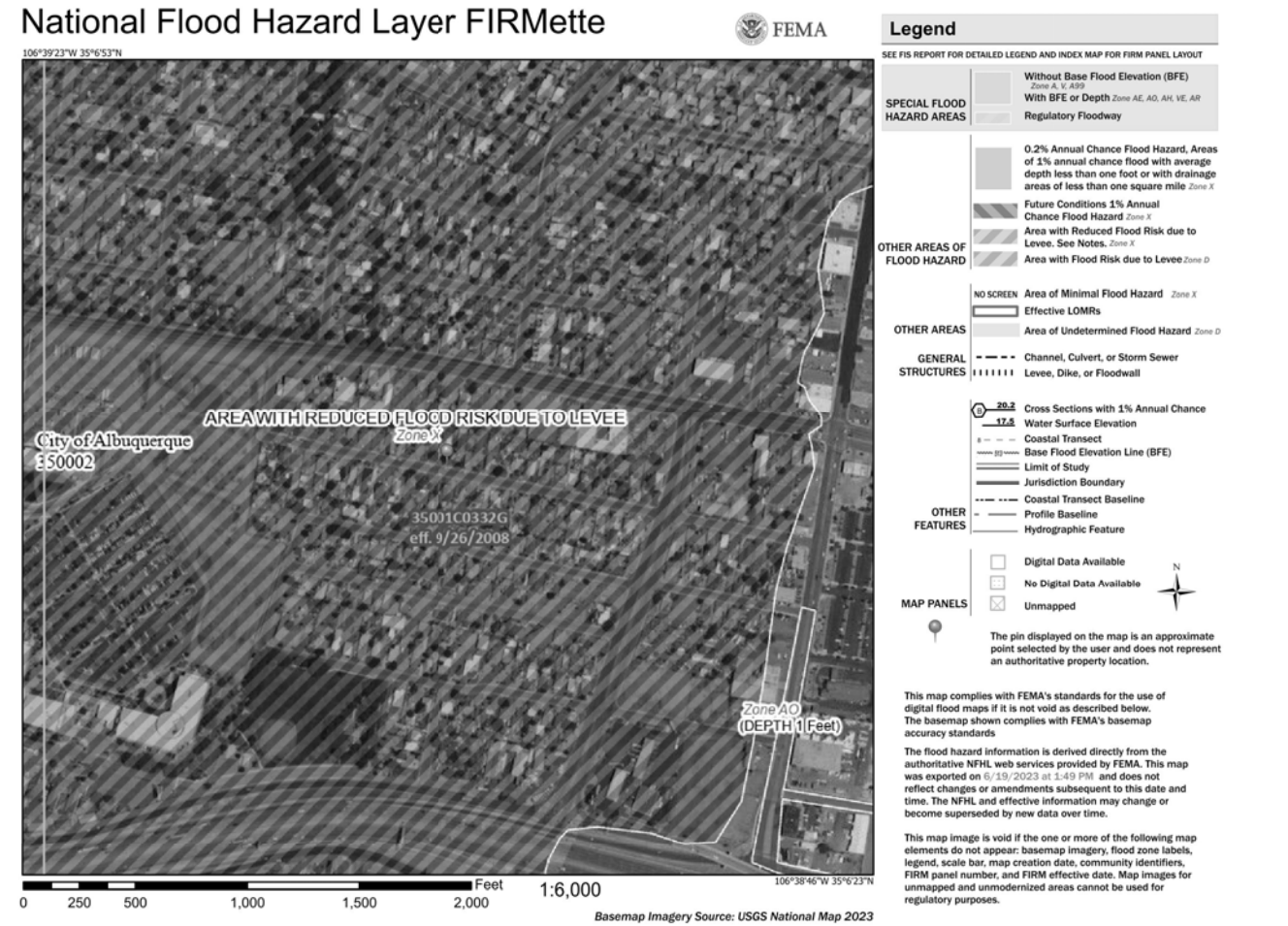
THE APPROVAL OF THESE PLANS SHALL NOT BE
CONSIDERED TO PRESENT VIOLATIONS OF ANY CITY
ORDINANCES OR STATE LAWS AND SHALL NOT PREVENT
THE USER FROM OBTAINING NECESSARY PERMITS,
CONNECTION, OR DESIGN OR DIMENSIONS IN PLANS,
SPECIFICATIONS, OR CONSTRUCTION. SUCH APPROVED PLANS
SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT
AUTHORIZATION.

EROSION CONTROL NOTES:

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



VICINITY MAP: H-14-Z



FIRM MAP:

LEGAL DESCRIPTION:

LOTS 49 AND 50, BLOCK 2 TOWNER ADDITION
CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

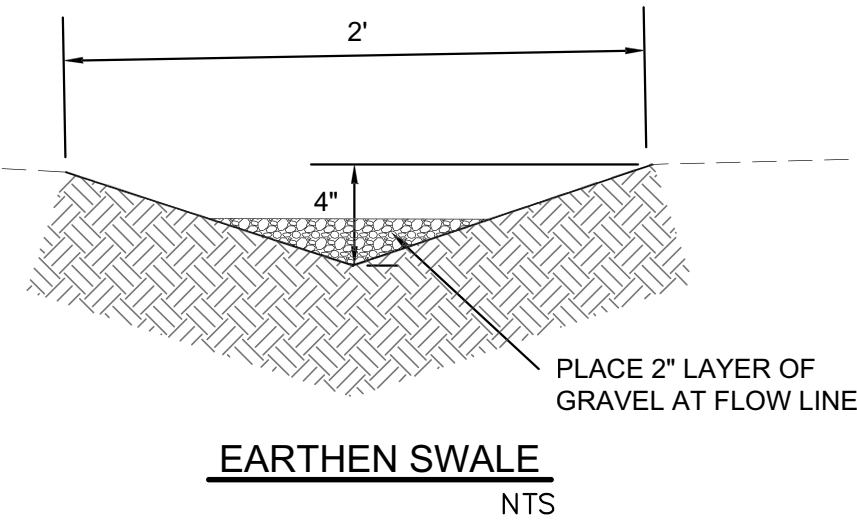
NOTES:

- ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
- ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.
- ANY PERIMETER WALLS MUST BE PERMITTED SEPARATELY ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.
- SURVEY INFORMATION PROVIDED BY COMMUNITY SCIENCES CORPORATION USING NAVD DATUM 1988.
- A PAD ELEVATION CERTIFICATION SHALL BE REQUIRED PRIOR TO RELEASE OF BUILDING PERMIT.

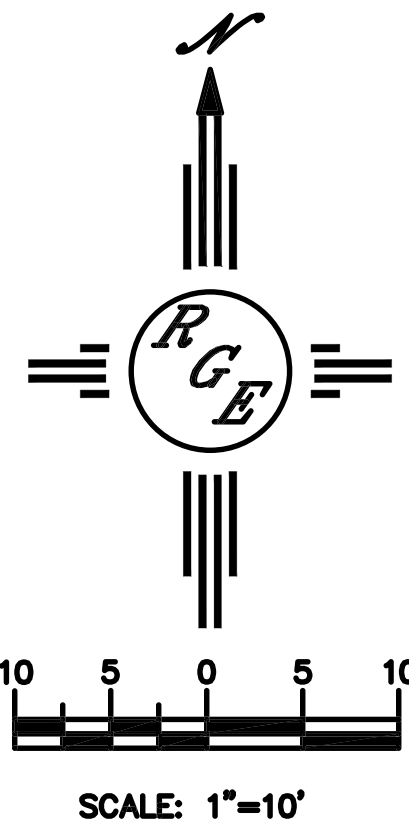
LEGEND

-----XXXX-----	EXISTING CONTOUR
-----XXXX-----	EXISTING INDEX CONTOUR
-----XXXX-----	PROPOSED CONTOUR
-----XXXX-----	PROPOSED INDEX CONTOUR
• XXXX	EXISTING SPOT ELEVATION
• XXXX	PROPOSED SPOT ELEVATION
-----	BOUNDARY
-----	ADJACENT BOUNDARY
=====	EXISTING CURB AND GUTTER
=====	PROPOSED EARTHEN SWALE
=====	PROPOSED CONCRETE
→	FLOW DIRECTION

CONSTRUCT ALL SWALES AND EROSION PROTECTION
(SHOWN HATCHED) BELOW ADJACENT GRADE TO ENSURE
RUNOFF CAN BE CAPTURED AND CONVEYED PROPERLY.


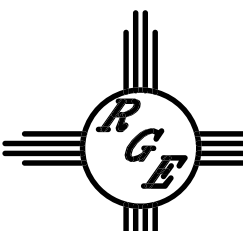


EARTHEN SWALE
NTS



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	LOTS 49 & 50, BLK 2 TOWNER ADDITION 709 TOWNER AVENUE NW GRADING AND DRAINAGE PLAN	DRAWN BY DEM
		DATE 6-19-23
		709 TOWNER AVE. DWG
		SHEET # C1
		JOB # _____
6/20/23	 <i>Rio Grande Engineering</i> PO BOX 83924 ALBUQUERQUE, NM 87199 (505) 321-9099	
DAVID SOULE P.E. #14522		