

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

January 17, 2024

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

RE: 12800 Mountain Rd. NE
Grading and Drainage Plan
Engineer's Stamp Date: 01/08/24
Hydrology File: J22D073

Dear Mr. Soule:

Based upon the information provided in your submittal received 01/08/2024, the Grading and Drainage Plan is approved for Building Permit and Grading Permit. **Since this site appears to need little grading, 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 (DTIS)

Project Title: _____ Hydrology File # _____

Legal Description: _____

City Address, UPC, OR Parcel: _____

Applicant/Agent: _____ Contact: _____

Address: _____ Phone: _____

Email: _____

Applicant/Owner: _____ Contact: _____

Address: _____ Phone: _____

Email: _____

(Please note that a DFT SITE is one that needs Site Plan Approval & ADMIN SITE is one that does not need it.)

TYPE OF DEVELOPMENT: PLAT (#of lots) _____ RESIDENCE
DFT SITE ADMIN SITE

RE-SUBMITTAL: YES NO

DEPARTMENT: TRANSPORTATION HYDROLOGY/DRAINAGE

Check all that apply under Both the Type of Submittal and the Type of Approval Sought:

TYPE OF SUBMITTAL:

ENGINEER/ARCHITECT CERTIFICATION
PAD CERTIFICATION
CONCEPTUAL G&D PLAN
GRADING & DRAINAGE PLAN
DRAINAGE REPORT
DRAINAGE MASTER PLAN
CLOMR/LOMR
TRAFFIC CIRCULATION LAYOUT (TCL)
ADMINISTRATIVE
TRAFFIC CIRCULATION LAYOUT FOR DFT
APPROVAL
TRAFFIC IMPACT STUDY (TIS)
STREET LIGHT LAYOUT
OTHER (SPECIFY) _____

TYPE OF APPROVAL SOUGHT:

BUILDING PERMIT APPROVAL
CERTIFICATE OF OCCUPANCY
CONCEPTUAL TCL DFT APPROVAL
PRELIMINARY PLAT APPROVAL
FINAL PLAT APPROVAL
SITE PLAN FOR BLDG PERMIT DFT
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
OTHER (SPECIFY) _____

DATE SUBMITTED: _____

Weighted E Method

per city of Albuquerque Development Process Manual- chapter 22

Existing Developed Basins										100-Year, 6-hr.		10-day		
Basin	Area (a)	Area (a)	Treatment A	Treatment B	Treatment C	Treatment D	Weighted E (a-c)	Volume (ac-ft)	Flow cfs	Volume (ac-ft)				
EXISTING	(acres)	(acres)	% (acres)	% (acres)	% (acres)	% (acres)	(ac-ft)	(ac-ft)	(cfs)	(ac-ft)				
BRAIN	7227.00	0.166	50%	0.0830	50%	0.083	0%	0.0000	0.855	0.012	0.40	0.012		
DRAIN TO STREET	5226.00	0.120	0%	0.0000	18.0%	0.022	23.0%	0.02759	59%	0.071	2.418	0.024	0.49	0.934
RETAIN IN BACK YARD	2001.00	0.046	0%	0.0000	55.0%	0.025	44.0%	0.02067	0%	0.000	1.063	0.004	0.14	0.004

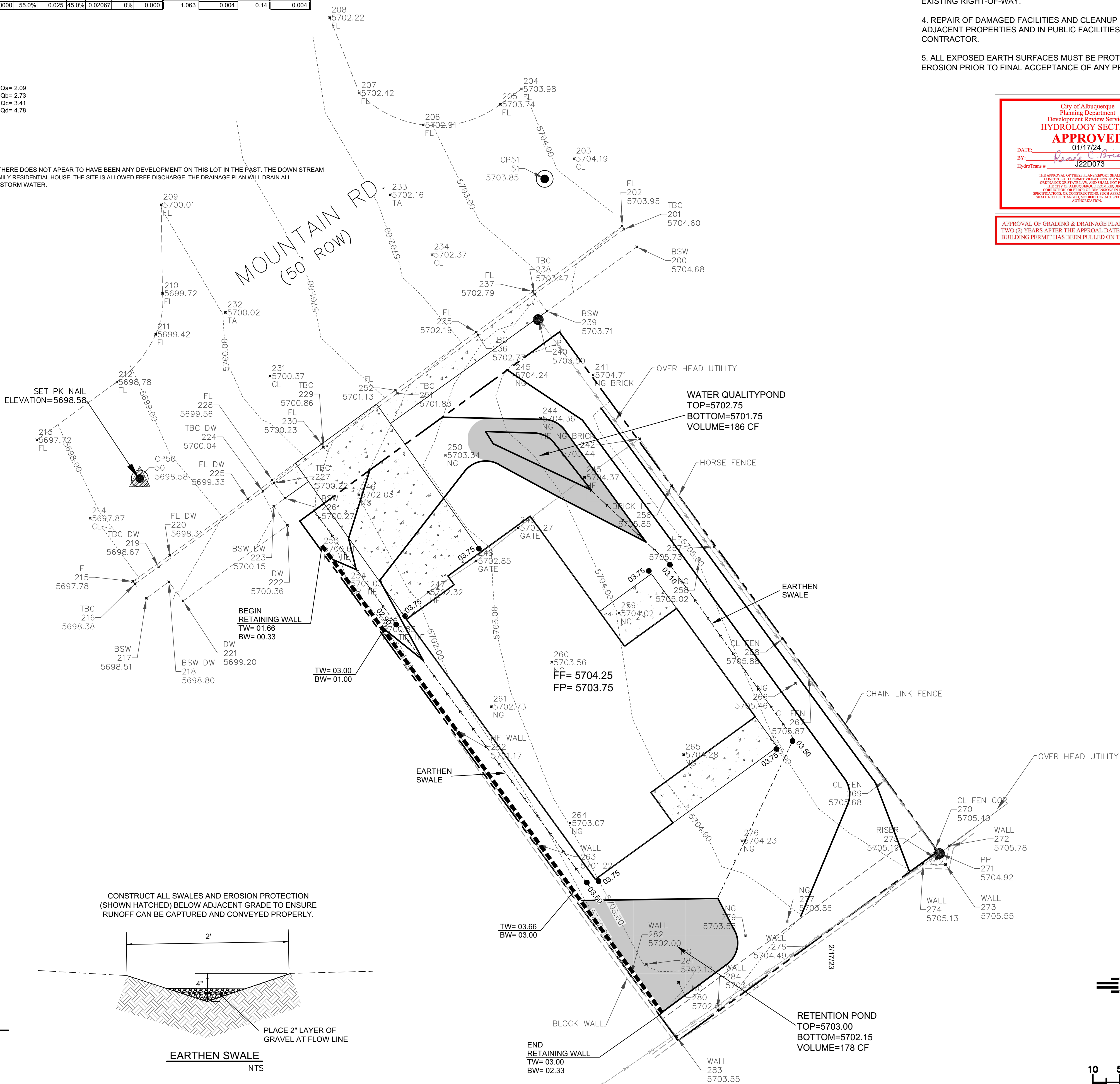
$$\text{Weighted E} = \frac{E_a \cdot A_a + E_b \cdot A_b + E_c \cdot A_c + E_d \cdot A_d}{(\text{Total Area})}$$
$$\text{Volume} = \text{Weighted D} * \text{Total Area}$$
$$\text{Flow} = Q_a \cdot A_a + Q_b \cdot A_b + Q_c \cdot A_c + Q_d \cdot A_d$$

Where for 100-year, 6-hour storm(ZONE 4)

Ea= 0.76	Qa= 2.09
Eb= 0.95	Qb= 2.73
Ec= 1.2	Qc= 3.41
Ed= 3.34	Qd= 4.78

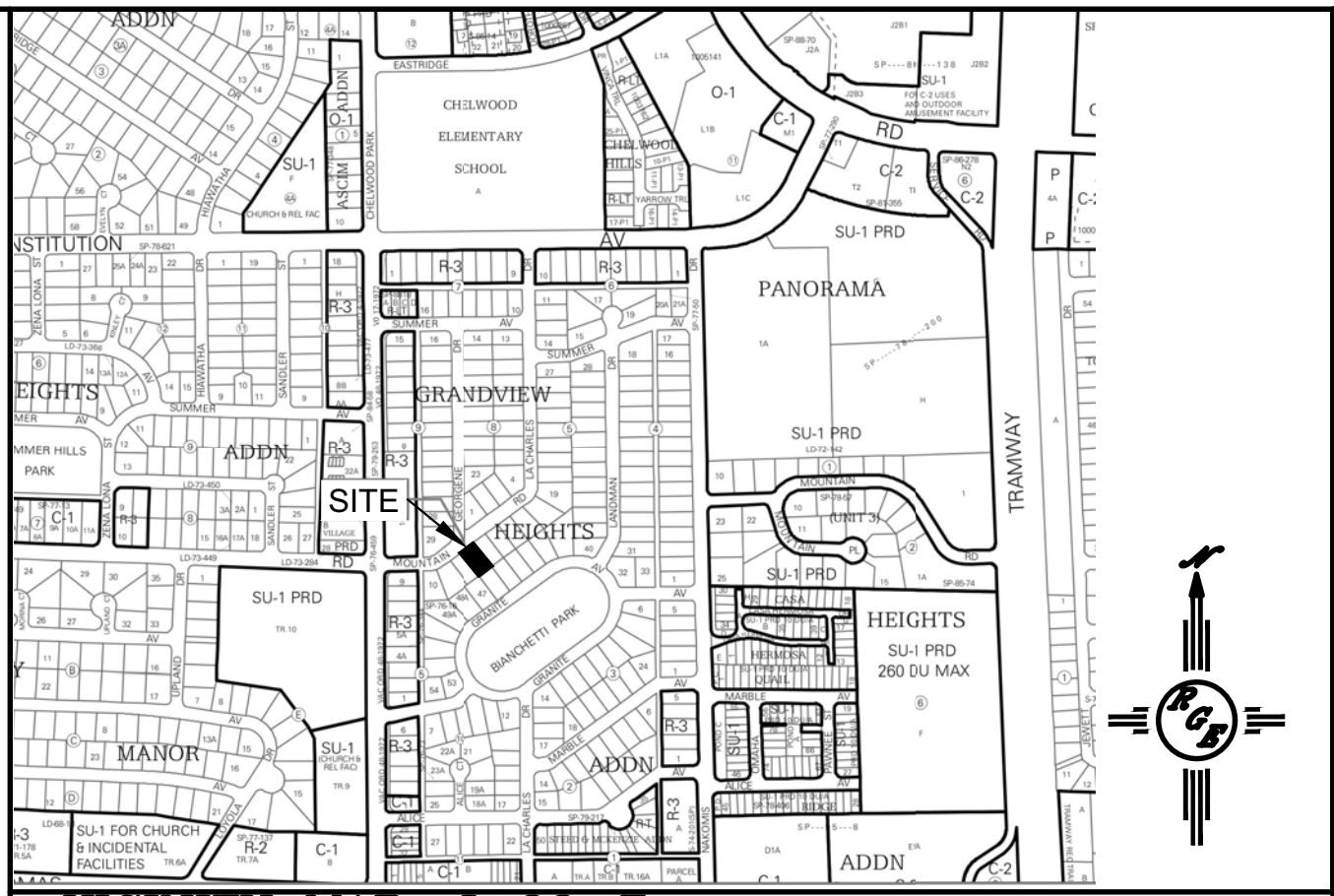
EXISTING DISCHARGE TO STREET	0.400 CFS
PROPOSED DISCHARGE TO STREET	0.491 CFS
REAR YARD GENERATION	177.171875

DRAINAGE NARRATIVE
THIS SITE IS LOCATED WITHIN A FULLY DEVELOPMENT NEIGHBORHOOD. THERE DOES NOT APPEAR TO HAVE BEEN ANY DEVELOPMENT ON THIS LOT IN THE PAST. THE DOWN STREAM IMPROVEMENTS ARE IN PLACE. THE PROPOSED PROJECT WILL BE A SINGLE FAMILY RESIDENTIAL HOUSE. THE SITE IS ALLOWED FREE DISCHARGE. THE DRAINAGE PLAN WILL DRAIN ALL THE HOUSE ROOF TO THE STREET AND THE BACK YARD WILL RETAIN ITS STORM WATER.



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.

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.



National Flood Hazard Layer FIRMette

Legend

NO DATA FOR DETAILS LOCUS AND HERE MAP FOR FIRM, LOCUS

SPECIAL FLOOD HAZARD AREAS

Without Base Flood Elevation (SFE)
 100 Year SFE
 500 Year SFE
 Regulatory Floodway

0.5% Annual Chance Flood Hazard, Areas of 0.5% Annual Chance Flood Hazard with average depth of 1 to 3 feet
 1% Annual Chance Flood Hazard, Areas of 1% Annual Chance Flood Hazard with average depth of 1 to 3 feet
 100 Year SFE
 500 Year SFE
 Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

Areas with Flood Hazard Risk Due to Levees
 Areas with Flood Hazard Risk Due to Levees
 Areas with Flood Hazard Risk Due to Levees

OTHER AREAS

Areas of Minimal Flood Hazard
 Areas of Minimal Flood Hazard
 Areas of Minimal Flood Hazard

GENERAL FLOOD HAZARD AREAS

Areas of Undetermined Flood Hazard
 Areas of Undetermined Flood Hazard
 Areas of Undetermined Flood Hazard

OTHER FEATURES

City Limits
 County Limits
 County Limits
 County Limits

MAP SYMBOLS

City Limits
 County Limits
 County Limits
 County Limits

Map Scale: 1 inch = 1 mile
 Map Scale: 1 inch = 1 mile
 Map Scale: 1 inch = 1 mile

Map Date: 10/07/2018
 Map Date: 10/07/2018
 Map Date: 10/07/2018

Map Version: 1.0.0.0
 Map Version: 1.0.0.0
 Map Version: 1.0.0.0

Map Title: National Flood Hazard Layer FIRMette
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Map Author: City of Albuquerque, NM
 Map Author: City of Albuquerque, NM
 Map Author: City of Albuquerque, NM

Map Contact: City of Albuquerque, NM
 Map Contact: City of Albuquerque, NM
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Map Disclaimer: This map is not a warranty, nor a representation of the accuracy of the information. The user of this map is responsible for the accuracy of the information. The user of this map is responsible for the accuracy of the information.

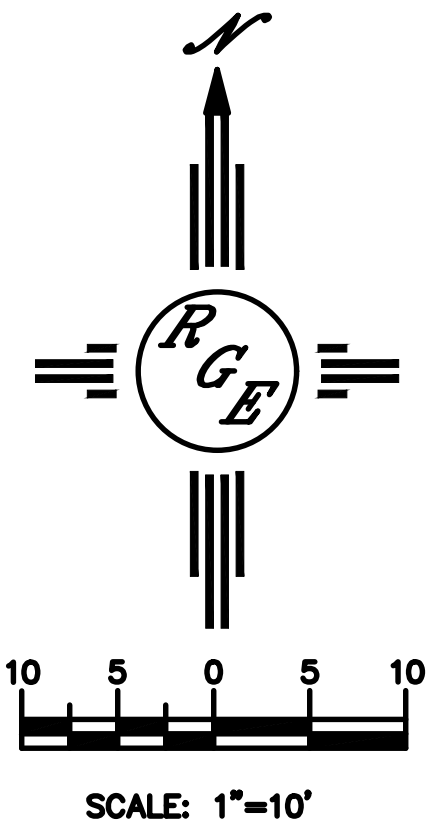
Map Notes: This map is not a warranty, nor a representation of the accuracy of the information. The user of this map is responsible for the accuracy of the information. The user of this map is responsible for the accuracy of the information.

Map Footer: City of Albuquerque, NM
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LOT 13, BLOCK 5 GRANDVIEW HEIGHTS
CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

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.
3. ANY PERIMETER WALLS MUST BE PERMITTED SEPARATELY ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.
4. SURVEY INFORMATION PROVIDED BY DYNAMIC CONSTRUCTION AND TECHNOLOGY LLC USING NAD83 DATUM.
5. A PAD ELEVATION CERTIFICATION SHALL BE REQUIRED PRIOR TO RELEASE OF BUILDING PERMIT.

	EXISTING CONTOUR
	EXISTING INDEX CONTOUR
	PROPOSED CONTOUR
	PROPOSED INDEX CONTOUR
	EXISTING SPOT ELEVATION
	PROPOSED SPOT ELEVATION
	BOUNDARY
	ADJACENT BOUNDARY
	EXISTING CURB AND GUTTER
	PROPOSED EARTHEN SWALE
	PROPOSED RETAINING WALL
	PROPOSED CONCRETE
	PROPOSED PONDING



ENGINEER'S SEAL	LOT 13, BLK 5 GRANDVIEW HEIGHTS 12800 MOUNTAIN RD	DRAWN BY DEM
	GRADING AND DRAINAGE PLAN	DATE 1-7-24
1/8/23	 <i>Rio Grande Engineering</i> PO BOX 83924 ALBUQUERQUE, NM 87189 (505) 321-9089	SHEET # C1
DAVID SOULE P.E. #14522		JOB #