

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

April 15, 2025

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

RE: 7312 Copper NE
Grading and Drainage Plan
Engineer's Stamp Date: 4/8/25
Hydrology File: K19D156
Case # HYDR-2025-00119

Dear Mr. Soule:

Based upon the information provided in your submittal received 4/8/2025, the Grading plan is **approved** for Building Permit and Grading Permit. 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.

As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Doug Hughes, PE, jhughes@cabq.gov, 505-924-3420) 14 days prior to any earth disturbance.

If you have any questions, please contact me at 505-924-3314 or amontoya@cabq.gov.

Sincerely,

Anthony Montoya, Jr., P.E., CFM
Senior Engineer, Hydrology
Planning Department, Development Review Services

Weighted E Method
COPPER

Existing Developed Basins										100-Year, 6-hr.			10-day	
Basin	Area (sf)	Area (acres)	Treatment A %	Treatment B (acres)	Treatment C (acres)	Treatment D (acres)	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs	Volume (ac-ft)				
HISTORIC	3050	0.070	0%	0	25.0%	0.018	36.0%	0.02521	39%	0.027	1.480	0.009	0.25	0.012
PROPOSED	3050	0.070	0%	0	22.0%	0.015	35.0%	0.02451	43%	0.030	1.538	0.009	0.25	0.012

Equations: 1662

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 3)

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

Qa= 1.84
Qb= 2.49
Qc= 3.17
Qd= 4.49

DISCHARGE PROPOSED 0.25 CFS 536 CF
EXISTING DISCHARGE 0.25 CFS 508 CF
DIFFERENCE 0.01 CFS -28 CF
WATER QUALITY(REDEVELOPMENT) 28
INCREASE IN FLOW RETAINED 30 CF

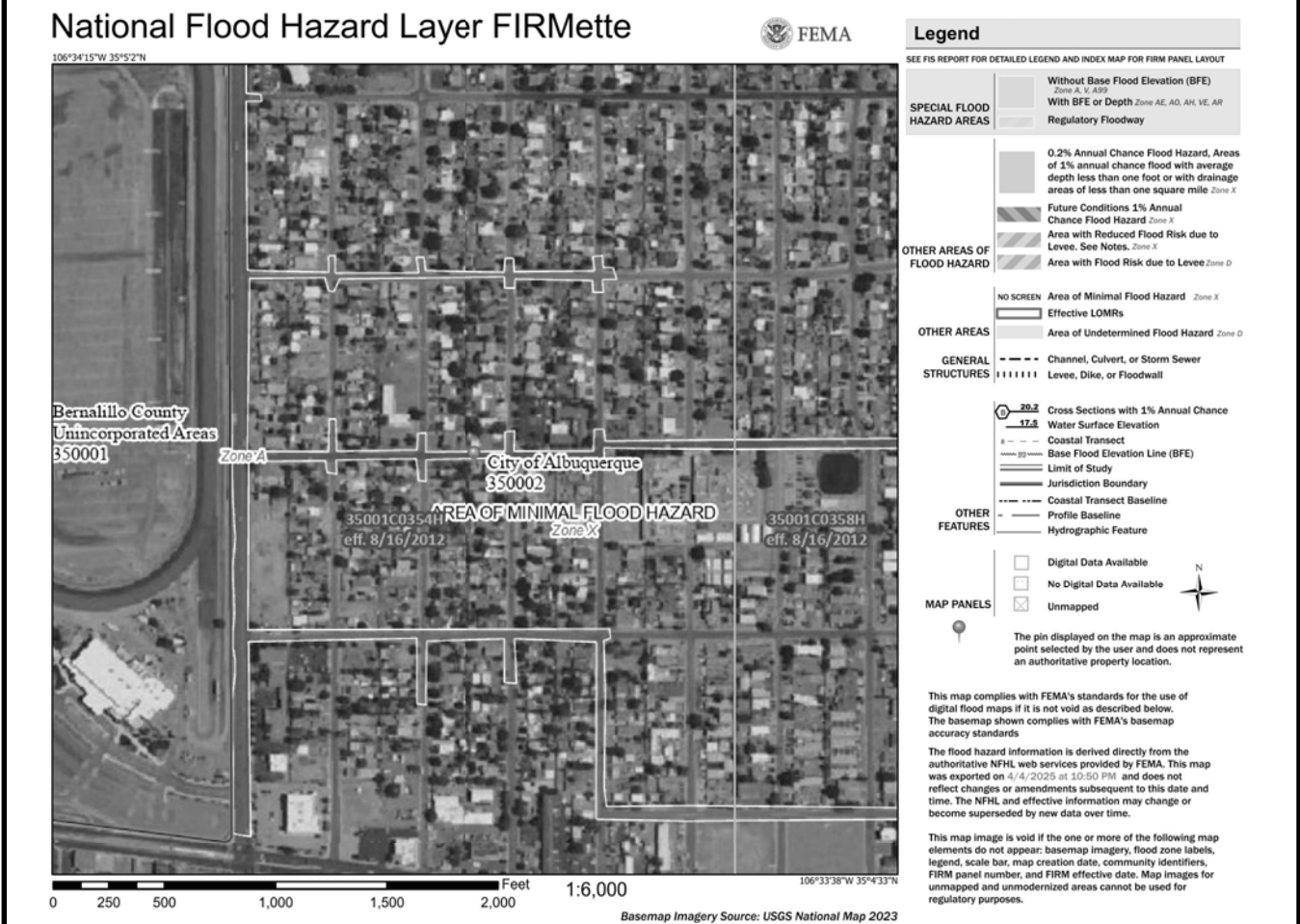
Narrative
This project is a redevelopment of an existing residential lot. The building shown on recent aerials has been recently demolished. The proposed development is a singlefamily residential lot. The existing site discharges 0.25 cfs to the existing roadway. The proposed development will continue to discharge to the adjacent roadways and will retain onsite 30 cubic feet of water. The existing neighborhood is allowed to free discharge. The site is not impacted by upland flows due to solid walls, minor cross lot flow if passing through weep holes to pass through the site to the roadway.

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: K-19-Z



FIRM MAP:

LEGAL DESCRIPTION:

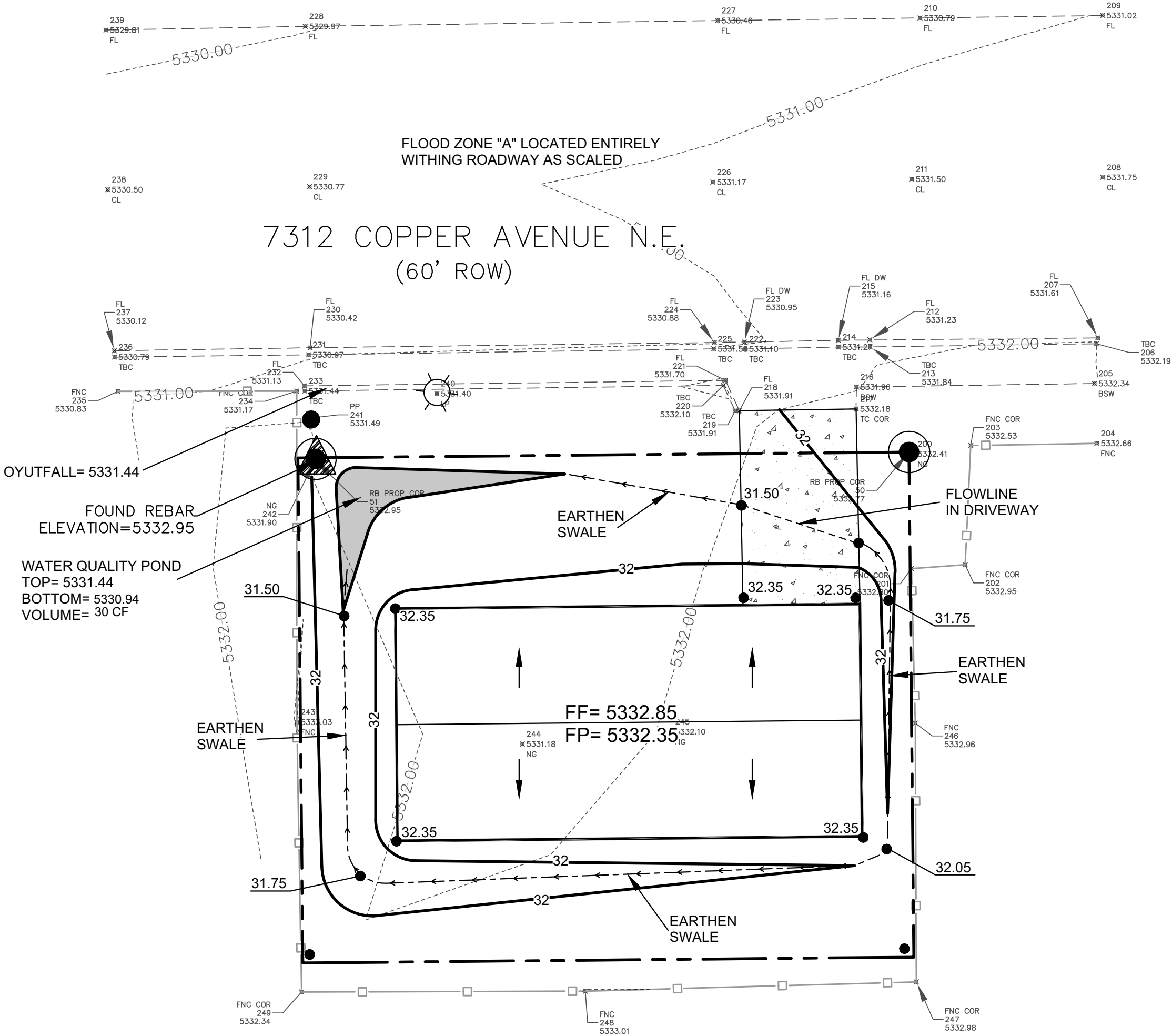
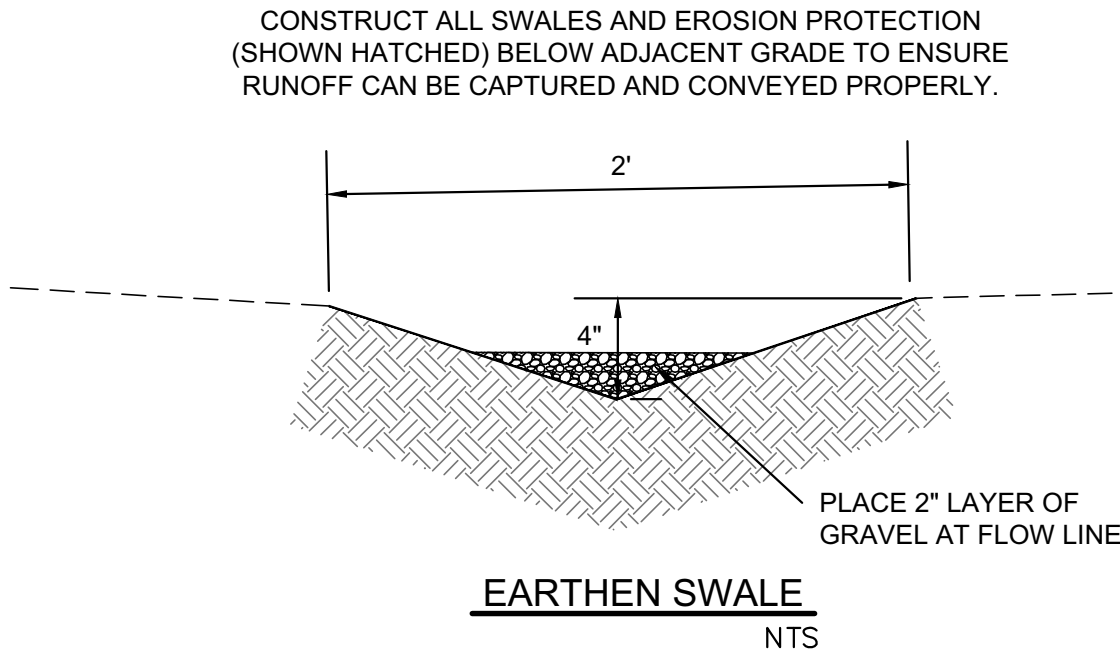
LOT 12-A LA MESA SUBDIVISION
CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

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 DYNAMIC CONSTRUCTION AND TECHNOLOGY LLC USING NAVD DATUM 1988.
- LONG TERM MAINTENANCE OF ALL PONDS, SWALES AND OVERFLOWS IS REQUIRED
- A PAD ELEVATION CERTIFICATION SHALL BE REQUIRED PRIOR TO RELEASE OF BUILDING PERMIT.

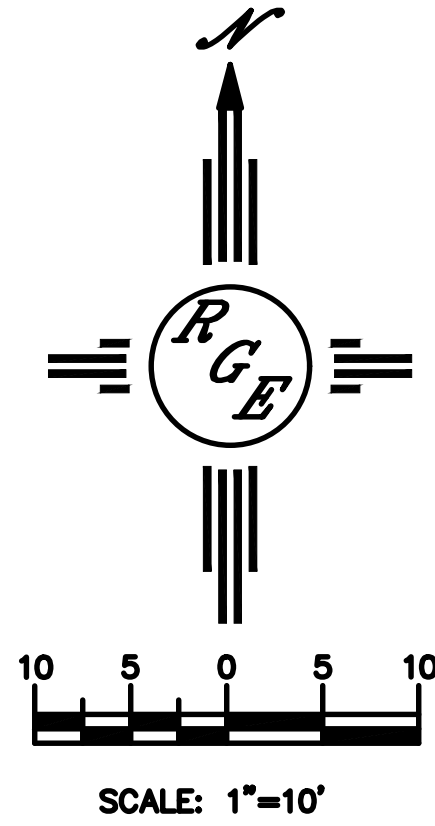
LEGEND


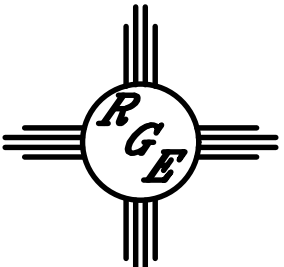
- XXXX----- EXISTING CONTOUR
- XXXX----- EXISTING INDEX CONTOUR
- XXXX----- PROPOSED CONTOUR
- XXXX----- PROPOSED INDEX CONTOUR
- XXXX EXISTING SPOT ELEVATION
- XXXX PROPOSED SPOT ELEVATION
- BOUNDARY
- ADJACENT BOUNDARY
- ===== EXISTING CURB AND GUTTER
- PROPOSED EARTHEN SWALE
- PROPOSED CONCRETE
- PROPOSED PONDING



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.



<div>ENGINEER'S SEAL</div>	<div>LOT 12-A LA MESA SUB. 7312 COPPER AVE.</div>	<div>DRAWN BY DEM</div>
<div><div>4/8/25</div><div>DAVID SOULE P.E. #14522</div></div>	<div>GRADING AND DRAINAGE PLAN</div>	<div>DATE 4-5-25</div>
	<div><div><i>Rio Grande Engineering</i></div><div>PO BOX 93624 ALBUQUERQUE, NM 87199 (505) 321-8099</div></div>	<div>7312 Copper Ave.dwg</div>
		<div>SHEET # C1</div>
		<div>JOB # <div></div></div>