

# CITY OF ALBUQUERQUE

Planning Department  
Alan Varela, Director



Mayor Timothy M. Keller

June 17, 2024

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

RE: **Lot 17 Block 8 Unit 18 SAD 228**  
**6628 Sujeto Rd. NW**  
**Grading and Drainage Plan**  
**Engineers Stamp Date 6/13/2024 (D10D003K17)**

Mr. Soule,

Based upon the information provided in your submittal received 6/14/2024, this plan is approved for Grading Permit.

PO Box 1293

**Prior to Building permit approval a Pad Certification will be required, provided by the Engineer or a registered Land Surveyor.**

Albuquerque

**Advise the owner contractor not to use dirt as a ramp to climb the curb, use lumber or crusher fines for this purpose.**

NM 87103

Reiterate to the Owner/Contractor that a separate permit for a garden/retaining wall must be obtained with the approved G&D plan and Pad Certification. Also, if a swimming pool is to be placed the grading and drainage plan will change and will need to be resubmitted.

www.cabq.gov

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

If you have any questions, please contact me at (505)924-3695 or Rudy Rael at (505)924-3977.

Sincerely,

Tiequan Chen, P.E.  
Principal Engineer, Hydrology  
Planning Department, Development Review Services

RR/TC  
C: File D10D003K17

Weighted E Method

|            |              |                 |             |         |             |         |             |         |             | 100-Year, 6-hr. |                       |                   | 24 hour     |                   |
|------------|--------------|-----------------|-------------|---------|-------------|---------|-------------|---------|-------------|-----------------|-----------------------|-------------------|-------------|-------------------|
| Basin      | Area<br>(sf) | Area<br>(acres) | Treatment A |         | Treatment B |         | Treatment C |         | Treatment D |                 | Weighted E<br>(ac-ft) | Volume<br>(ac-ft) | Flow<br>cfs | Volume<br>(ac-ft) |
|            |              |                 | %           | (acres) | %           | (acres) | %           | (acres) | %           | (acres)         |                       |                   |             |                   |
| ALLOWED    | 23217.00     | 0.533           | 0%          | 0       | 24%         | 0.128   | 40%         | 0.2132  | 36%         | 0.192           | 1.362                 | 0.060             | 1.68        | 0.073             |
| PROPOSED   | 23217.00     | 0.533           | 0%          | 0       | 24%         | 0.128   | 44%         | 0.2345  | 32%         | 0.171           | 1.310                 | 0.058             | 1.65        | 0.070             |
| COMPARISON |              |                 |             |         |             |         |             |         |             |                 |                       | -0.002            |             | -0.004            |

Equations:

Weighted E = Ea\*Aa + Eb\*Ab + Ec\*Ac + Ed\*Ad / (Total Area)

Volume = Weighted D \* Total Area

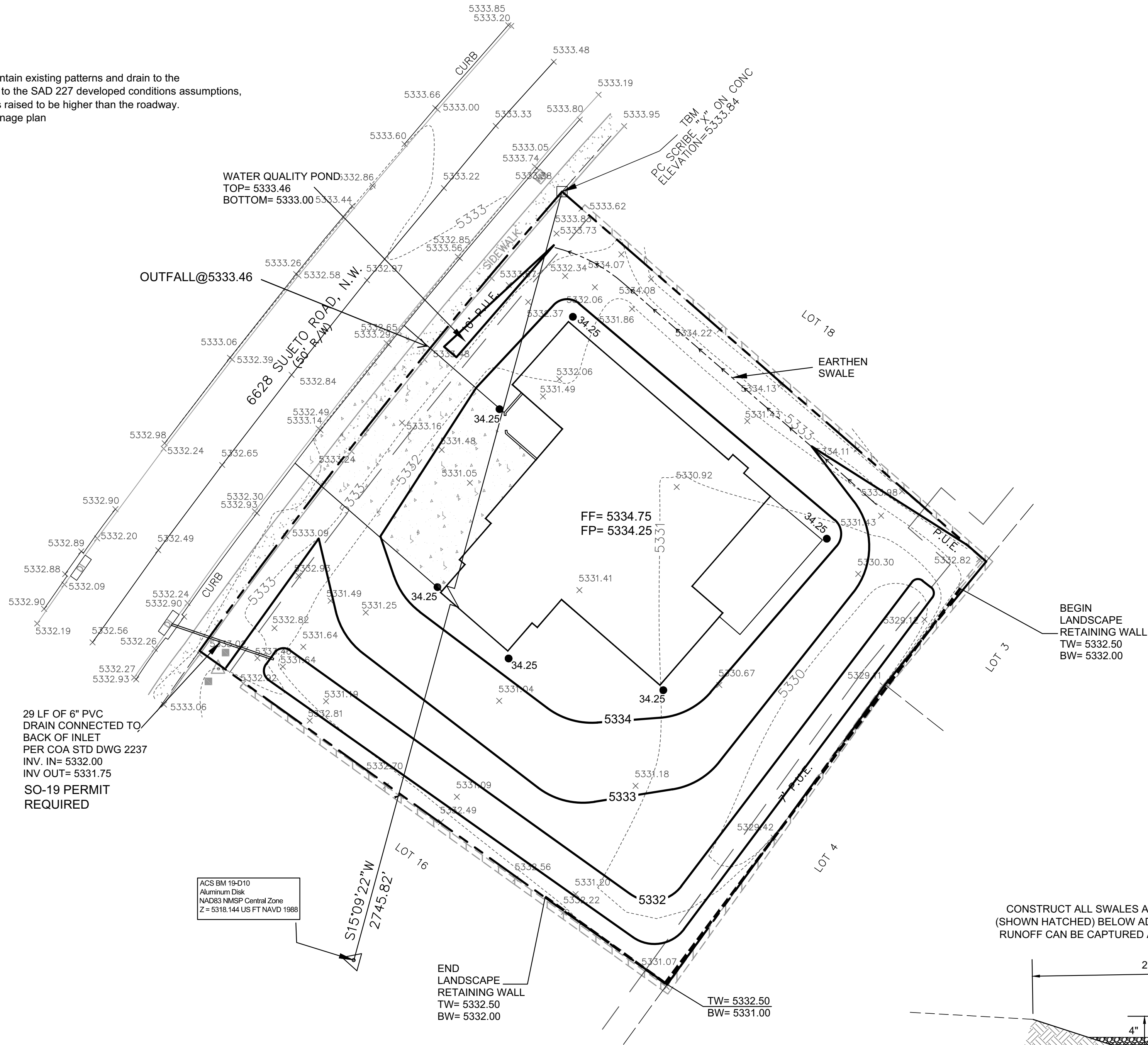
Flow = Qa \* Aa + Qb \* Ab + Qc \* Ac + Qd \* Ad

Where for 100-year, 6-hour storm- zone 1  
Ea= 0.55      Qa= 1.54  
Eb= 0.73      Qb= 2.16  
Ec= 0.95      Qc= 2.87  
Ed= 2.24      Qd= 4.12

| ONSITE Conditions                |          |  |
|----------------------------------|----------|--|
| FIRST FLUSH WATER QUALITY VOLUME |          |  |
| REQUIRED                         | PROVIDED |  |
| (CF)                             | (CF)     |  |
| 0                                | 0        |  |
| 0                                | 0        |  |

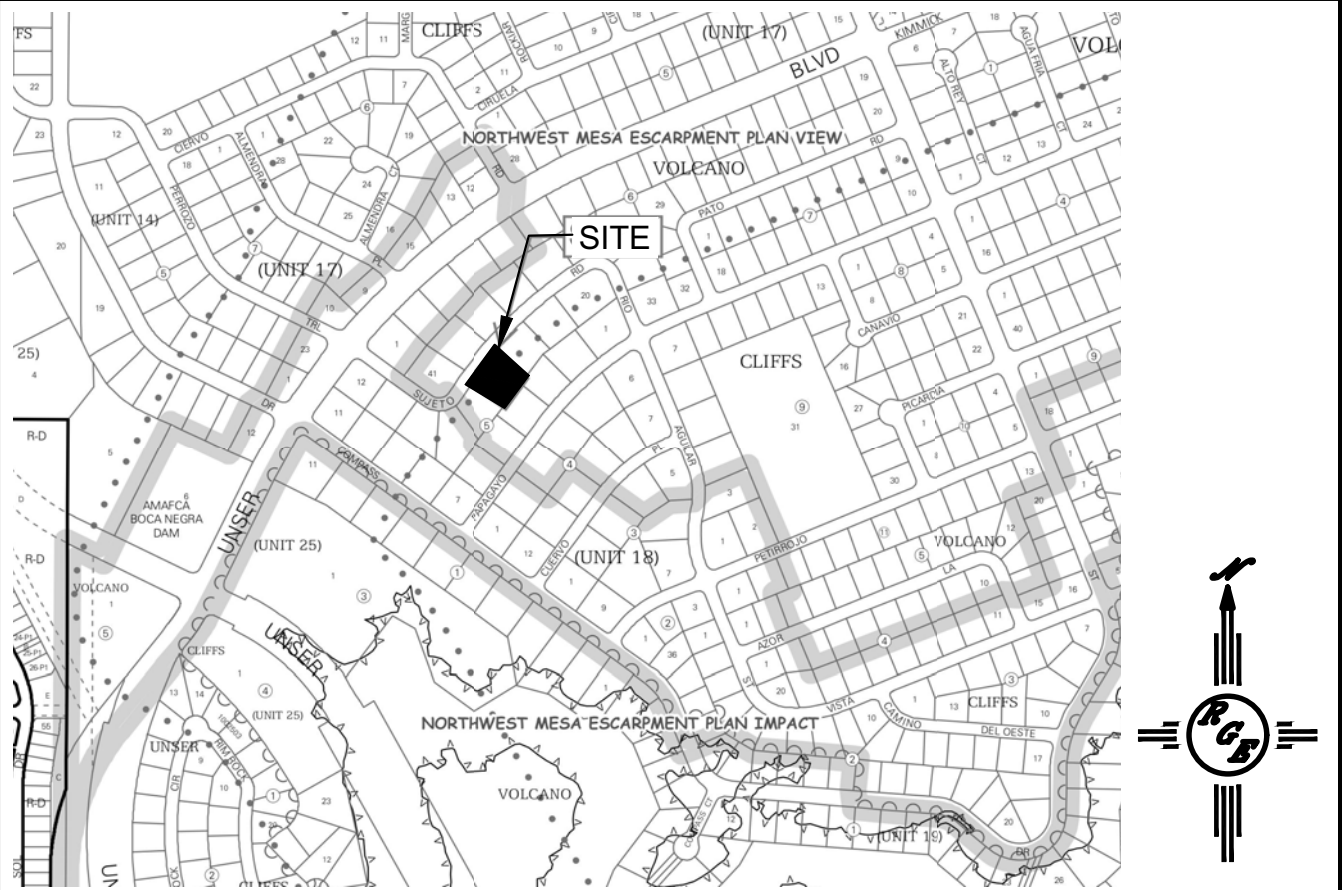
Narrative

This site is within the SAD 228 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the adjacent roadway to the south per the master drainage plan. The site does conform to the SAD 227 developed conditions assumptions, therefore ponding is not required. Due to inlets a the frontage, the pad the pad was raised to be higher than the roadway. All flows generated drains to street. This plan is in conformance to the master drainage plan

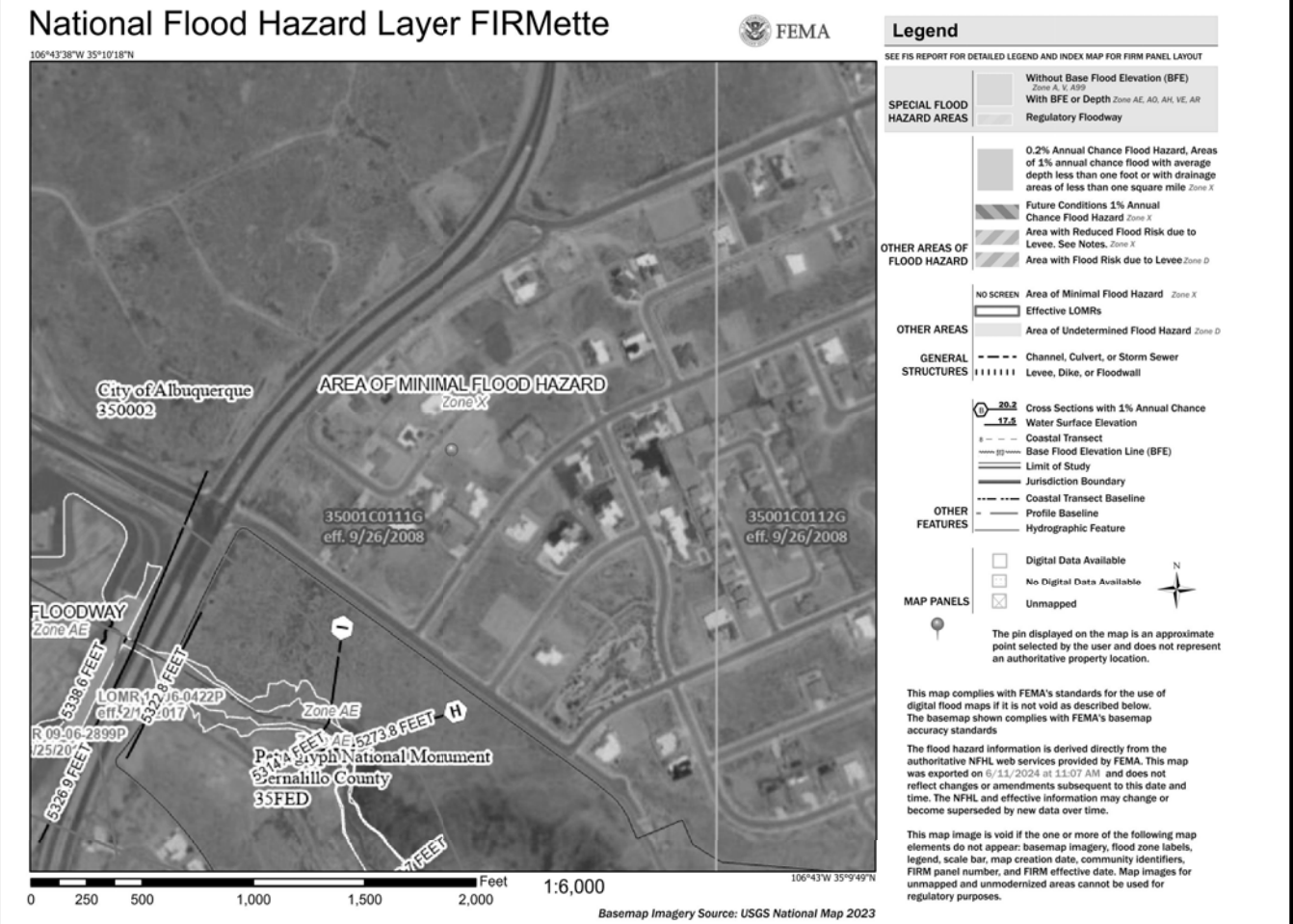


EROSION CONTROL NOTES:

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.



VICINITY MAP: D-10-Z



FIRM MAP:

LEGAL DESCRIPTION:

LOT 17, BLOCK 5 VOLCANO CLIFFS UNIT 18  
CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

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.
3. ANY PERIMETER WALLS MUST BE PERMITTED SEPARATELY ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.
4. SURVEY INFORMATION PROVIDED BY COMMUNITY SCIENCES CORPORATION USING NAVD DATUM 1988.
5. LONG TERM MAINTAINANCE OF ALL PONDS, SWALES AND OVERFLOWS IS REQUIRED
6. 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 RETAINING WALL  |
| -----          | 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.

|  |  |   |
|--|--|---|
| ENGINEER'S SEAL<br><br>DAVID SOULE<br>NEW MEXICO<br>REGISTERED PROFESSIONAL ENGINEER<br>14522<br><br>6/13/24<br><br>DAVID SOULE<br>P.E. #14522 | Lot 17 Blk 8 U 18 VC<br>6628 SUETO RD NW<br><br>GRADING AND DRAINAGE PLAN<br><br><br>P.O. BOX 53924<br>ALBUQUERQUE, NM 87199<br>(505) 321-9099 | DRAWN BY DEM<br>DATE 6-14-24<br>Lot 17 Blk 8 U 18 VC.dwg<br>SHEET # C1<br>JOB # |
|  |  |   |

