

# CITY OF ALBUQUERQUE

Planning Department  
David Campbell, Director



Mayor Timothy M. Keller

June 26, 2018

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

**RE: 9825 Benton NW  
Grading and Drainage Plan  
Engineer's Stamp Date: 06/21/18  
Hydrology File: B13D029**

Dear Mr. Soule:

PO Box 1293

Based upon the information provided in your submittal received 06/21/2018, the Grading and Drainage Plan is approved for Building Permit and Grading Permit.

Albuquerque

Once the grading is complete, a pad certification will be required prior to release of Building Permit. Please attach a copy of this approved plan in the construction sets for Building Permit processing.

NM 87103

Prior to approval in support of Permanent Release of Occupancy by Hydrology, Engineer Certification per the DPM checklist will be required and a formal Elevation Certificate needs to be submitted to Hydrology.

www.cabq.gov

Please provide a Private Facility Drainage Covenant per Chapter 17 of the DPM for first flush pond prior to Permanent Release of Occupancy. Please submit this on the 4th floor of Plaza de Sol. A \$25 fee will be required.

If you have any questions, please contact me at 924-3995 or [rbrissette@cabq.gov](mailto: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 09/2015)

**Project Title:** \_\_\_\_\_ **Building Permit #:** \_\_\_\_\_ **City Drainage #:** \_\_\_\_\_

**DRB#:** \_\_\_\_\_ **EPC#:** \_\_\_\_\_ **Work Order#:** \_\_\_\_\_

**Legal Description:** \_\_\_\_\_

**City Address:** \_\_\_\_\_

**Engineering Firm:** \_\_\_\_\_ **Contact:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

**Owner:** \_\_\_\_\_ **Contact:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

**Architect:** \_\_\_\_\_ **Contact:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

**Other Contact:** \_\_\_\_\_ **Contact:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

Check all that Apply:

**DEPARTMENT:**

- ☐ HYDROLOGY/ DRAINAGE  
☐ TRAFFIC/ TRANSPORTATION  
☐ MS4/ EROSION & SEDIMENT CONTROL

**TYPE OF SUBMITTAL:**

- ☐ ENGINEER/ ARCHITECT CERTIFICATION
- ☐ CONCEPTUAL G & D PLAN  
☐ GRADING PLAN  
☐ DRAINAGE MASTER PLAN  
☐ DRAINAGE REPORT  
☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)  
☐ TRAFFIC IMPACT STUDY (TIS)  
☐ EROSION & SEDIMENT CONTROL PLAN (ESC)
- ☐ OTHER (SPECIFY) \_\_\_\_\_

**CHECK 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
- ☐ PRE-DESIGN MEETING  
☐ OTHER (SPECIFY) \_\_\_\_\_

IS THIS A RESUBMITTAL?: ☐ Yes ☐ No

**DATE SUBMITTED:** \_\_\_\_\_ **By:** \_\_\_\_\_

COA STAFF: \_\_\_\_\_ ELECTRONIC SUBMITTAL RECEIVED: \_\_\_\_\_



Weighted E Method

| Basin    | Area<br>(sf) | Area<br>(acres) | Treatment A |         |      |         | Treatment B |         |     |         | Treatment C |         |      |         | Treatment D |         |          |                   | 100-Year, 6-hr. |  |
|----------|--------------|-----------------|-------------|---------|------|---------|-------------|---------|-----|---------|-------------|---------|------|---------|-------------|---------|----------|-------------------|-----------------|--|
|          |              |                 | %           | (acres) | %    | (acres) | %           | (acres) | %   | (acres) | %           | (acres) | %    | (acres) | %           | (acres) | Weighted | Volume<br>(ac-ft) | Flow<br>cfs     |  |
| NATIVE   | 6745.00      | 0.155           | 0%          | 0       | 100% | 0.155   | 0%          | 0       | 0%  | 0.000   | 0%          | 0.000   | 0%   | 0.000   | 0%          | 0.000   | 1.448    | 0.009             | 0.31            |  |
| ALLOWED  | 6745.00      | 0.155           | 0%          | 0       | 10%  | 0.015   | 40%         | 0.0619  | 50% | 0.077   | 1.448       | 0.019   | 0.55 |         |             |         |          |                   |                 |  |
| PROPOSED | 6745.00      | 0.155           | 0%          | 0       | 12%  | 0.019   | 29%         | 0.0449  | 59% | 0.091   | 1.530       | 0.020   | 0.57 |         |             |         |          |                   |                 |  |

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= 0.44 | Qa= 1.29 |
| Eb= 0.67 | Qb= 2.03 |
| Ec= 0.99 | Qc= 2.87 |
| Ed= 1.97 | Qd= 4.37 |

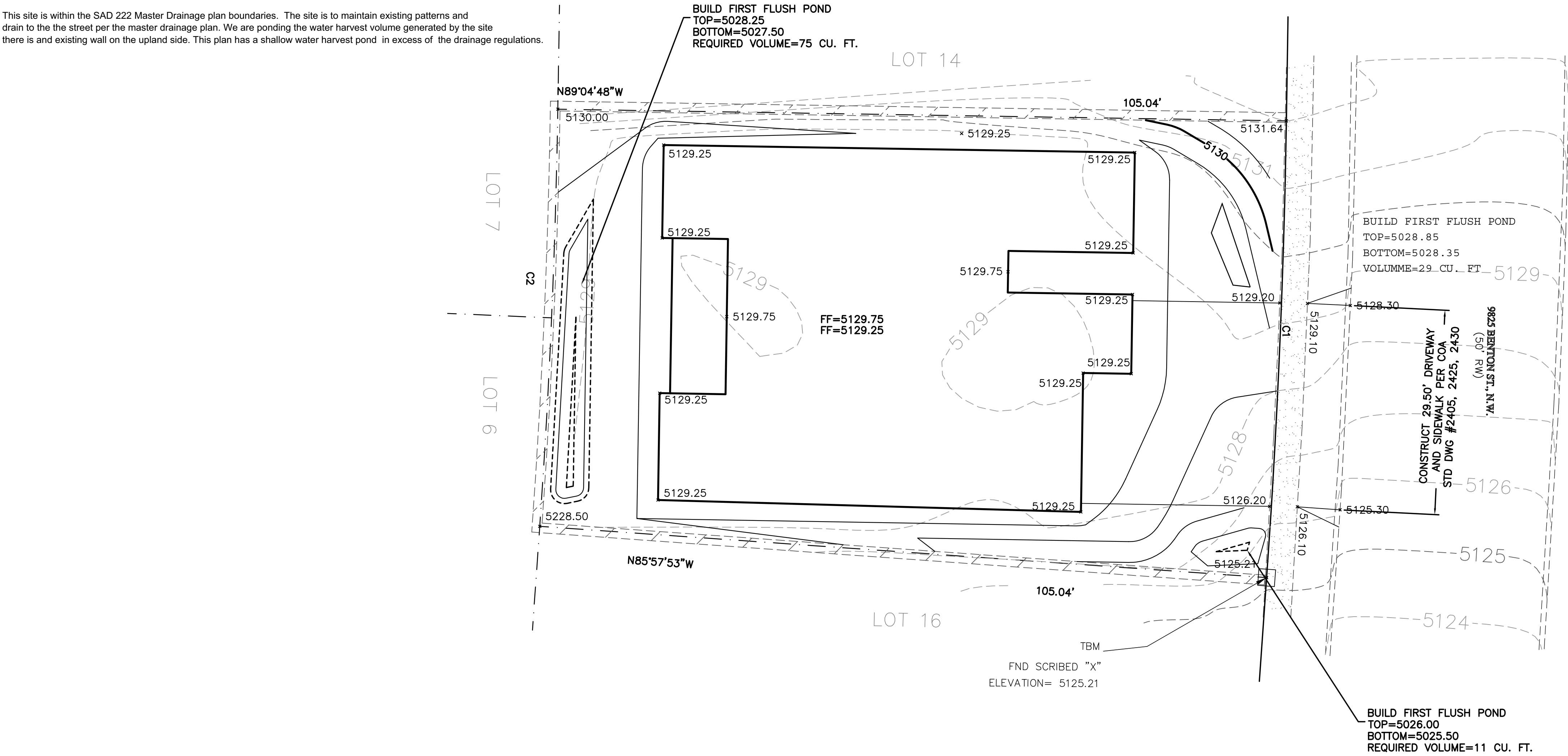
ONSITE Conditions

FIRST FLUSH WATER QUALITY VOLUME REQUIRED PROVIDED

|               |     |     |
|---------------|-----|-----|
| WATER QUALITY | 113 | 115 |
| Flood control | 46  | 115 |

Narrative

This site is within the SAD 222 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the the street per the master drainage plan. We are ponding the water harvest volume generated by the site there is and existing wall on the upland side. This plan has a shallow water harvest pond in excess of the drainage regulations.



C2:  
R=1107.42'  
L=60.21'  
C=60.20'  
CB=N2°28'40"E  
?=3°06'54"

C1:  
R=1212.42'  
L=65.92'  
C=65.91'  
CB=N2°28'39"E  
?=3°06'55"

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.

EROSION CONTROL NOTES:

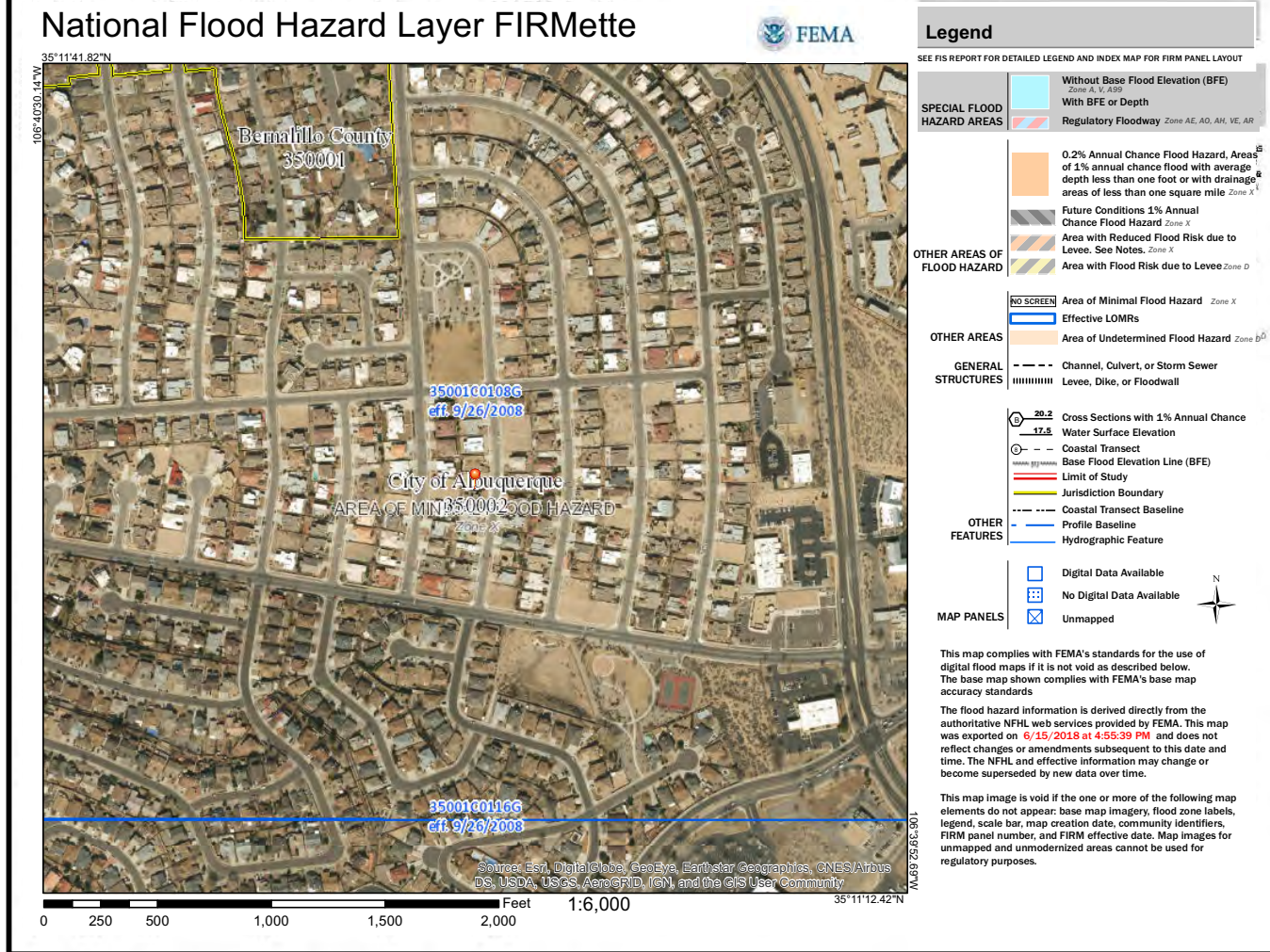
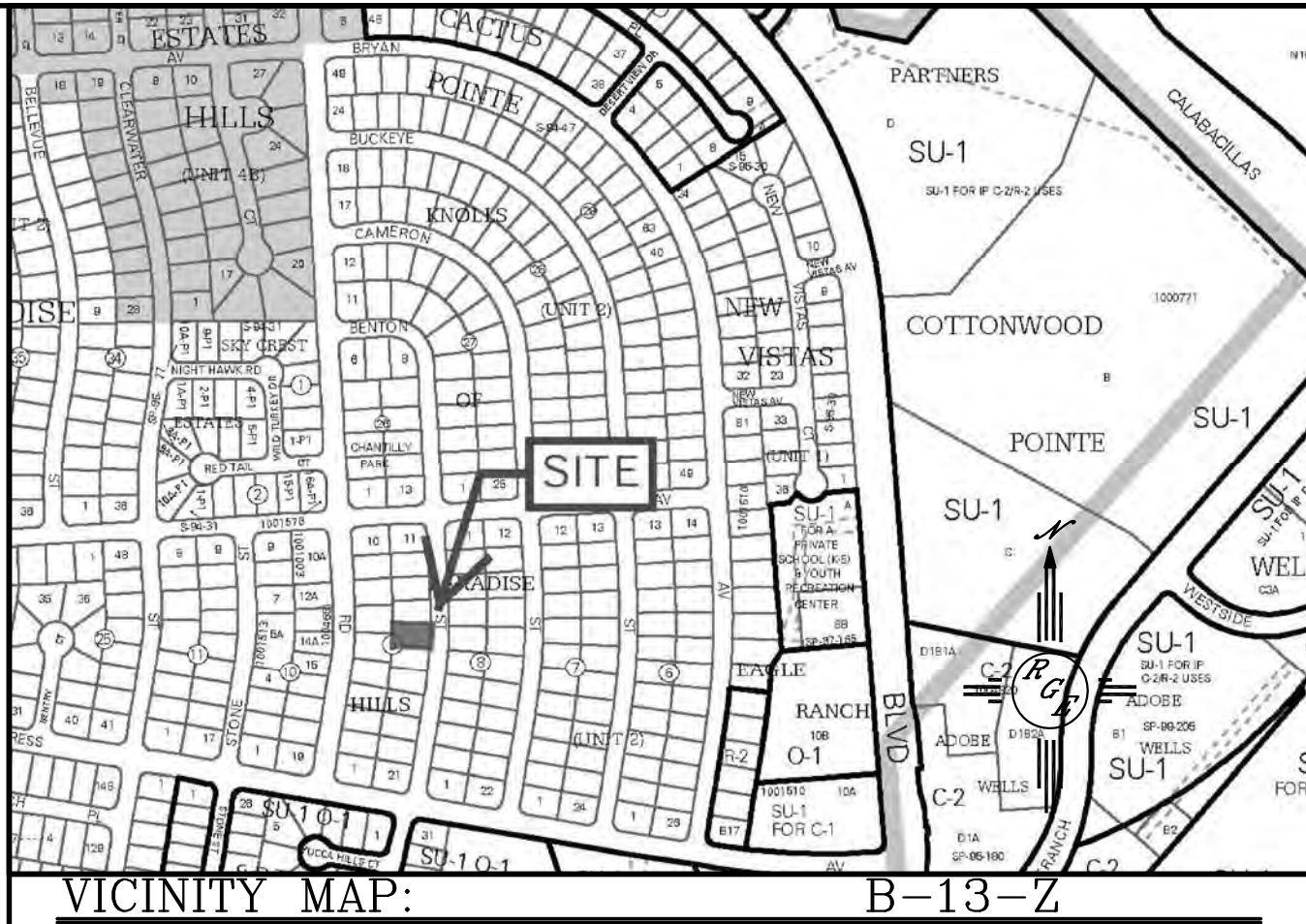
1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.

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.



FIRM MAP:

LEGAL DESCRIPTION:


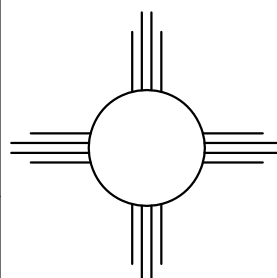
LOT 5A, BLOCK 2, NORTH FOUR HILLS  
LOT 15, BLOCK 9 THE KNOLES OF PARADISE HILLS UNIT 2

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. A PAD CERTIFICATION IS REQUIRED PRIOR TO RELEASE OF BUILDING PERMIT
4. ANY PERIMETER WALLS SHALL BE CONSTRUCTED UNDER A SEPARATE BUILDING PERMIT AND MUST CONFORM TO THE APPROVED GRADING PLAN ALLOWING CROSS LOT DRAINAGE

LEGEND

|                |                                     |
|----------------|-------------------------------------|
| -----XXXX----- | EXISTING CONTOUR                    |
| -----XXXX----- | EXISTING INDEX CONTOUR              |
| -----XXXX----- | PROPOSED CONTOUR                    |
| -----XXXX----- | PROPOSED INDEX CONTOUR              |
| -----XXXX----- | SLOPE TIE                           |
| -----XXXX----- | EXISTING SPOT ELEVATION             |
| -----XXXX----- | PROPOSED SPOT ELEVATION             |
| -----XXXX----- | BOUNDARY                            |
| -----XXXX----- | CENTERLINE                          |
| -----XXXX----- | RIGHT-OF-WAY                        |
| =====          | EXISTING CURB AND GUTTER            |
| =====          | PROPOSED CMU SCREEN WALL            |
| =====          | ROCK PLATTING-SEE DETAIL THIS SHEET |

|   |  |  |
|---|--|--|
| ENGINEER'S SEAL<br><br>6/21/18<br>DAVID SOULE<br>P.E. #14522 | 9825 BENTON  | DRAWN BY: WCVJ<br>DATE: 6-19-18<br>218118-LAYOUT-6-19-18 |
|   | GRADING AND DRAINAGE PLAN<br><br>1606 CENTRAL AVENUE SE<br>SUITE 201<br>ALBUQUERQUE, NM 87106<br>(505) 872-0992 | SHEET #<br>—<br>JOB #<br>218118                          |