

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

May 11, 2022

David Soule, PE
Rio Grande Engineering
1606 Central SE Suite 201
Albuquerque, NM 87106

**Re: Lot 8 Block 8 SAD 227
Volcano Cliffs Subdivision Unit 5
6100 Casa Blanca Dr. NW
Grading and Drainage Plan
Engineers Stamp Date 8/21/2020 (E10D084)
Pad Certification Date 9/3/2021
CO Certification Dated: 5/11/2022**

PO Box 1293

Mr. Soule

Albuquerque

Based on the Certification received on 5/11/2022, the site is acceptable for release of
Certificate of Occupancy by Hydrology.

NM 87103

Sincerely,

www.cabq.gov

Ernest Armijo, P.E.
Principal Engineer, Planning Dept.
Development Review Services



City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: 6100 CASA BLANCA / **Building Permit #:** _____ **Hydrology File #:** _____

DRB#: _____ **EPC#:** _____ **Work Order#:** _____

Legal Description: LOT 8 , BLOCK 8 VOLCANO CLIFFS UNIT 5

City Address: 6100 CASA BLANCA

Applicant: NATHAN TROYER **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. | | 24 hour Volume (ac-ft) |
|-------------|--------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------------|-------------|------------------------------|
| | | | % (acres) | % (acres) | % (acres) | % (acres) | % (acres) | % (acres) | % (acres) | % (acres) | Volume (ac-ft) | Flow cfs | |
| ALLOWED | 28329.00 | 0.673 | 0% | 0 | 24% | 0.162 | 40% | 0.2693 | 36% | 0.242 | 1.266 | 0.071 | 2.16 |
| FRONT BASIN | 4584.00 | 0.105 | 0% | 0 | 20% | 0.021 | 48% | 0.0505 | 32% | 0.034 | 1.240 | 0.011 | 0.13 |
| SIDE BASIN | 5104.00 | 0.117 | 0% | 0 | 5% | 0.006 | 34% | 0.0398 | 61% | 0.071 | 1.572 | 0.015 | 0.29 |
| REAR BASIN | 19641.00 | 0.451 | 20% | 0.09 | 24% | 0.108 | 39% | 0.1758 | 17% | 0.077 | 0.970 | 0.036 | 1.18 |

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

| | | | |
|------------------|-------|------|------|
| PONDING REQUIRED | FRONT | SIDE | REAR |
| PONDING PROVIDED | 530 | 788 | 1715 |
| | 589 | 792 | 1942 |

Narrative

This site is within the SAD 227Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the adjacent roadway to the east per the master drainage plan. The site does not exceed the SAD 227 developed conditions assumptions. Due to height restrictions we are not able to raise the floor to drain to the street, therefore we must retain the flows and provide for overflow to historical location

I, DAVID SOULE HAVE PERSONALLY INPECTED THE SITE. I HEREBY CERTIFY THE PAD HAS BEEN CONSTRUCTED SUCH THAT IT IS IN SUBSTANTIAL CONFORMANCE TO THE APPROVED GRADING PLAN DATED 8/21/20

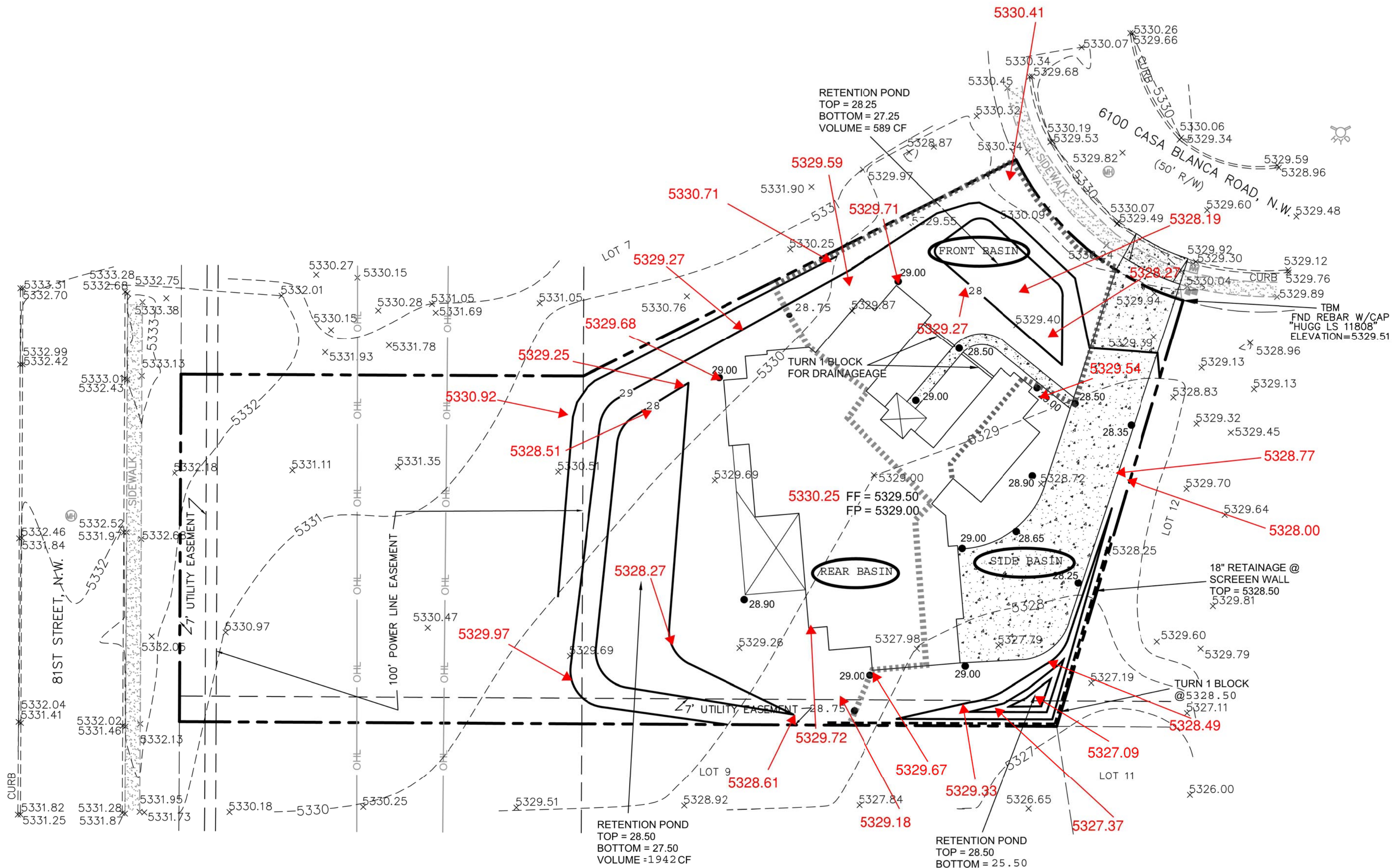


9/3/21

I David Soule, NMPE 14522 , of the firm Rio Grande Engineering, hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intend of the approved plan dated 8/21/20 . The record information edited on the original design document has performed by me or under my direct supervision and is true and correct to the best of my knowledge and belief. The as-built survey was provided by THOMAS PATRICK NMPS 12651. The certification is submitted in support of a request for **PERMANENT CERTIFICATE OF OCCUPANCY**. The record information presented heron is not necessarily complete and intended only to verify substantial compliance of the grading and drainage aspects of this project. Those relying on this record document are advised to obtain independent verification of its accuracy before using it for any other purpose



5/11/22



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.

"AS-BUILT"

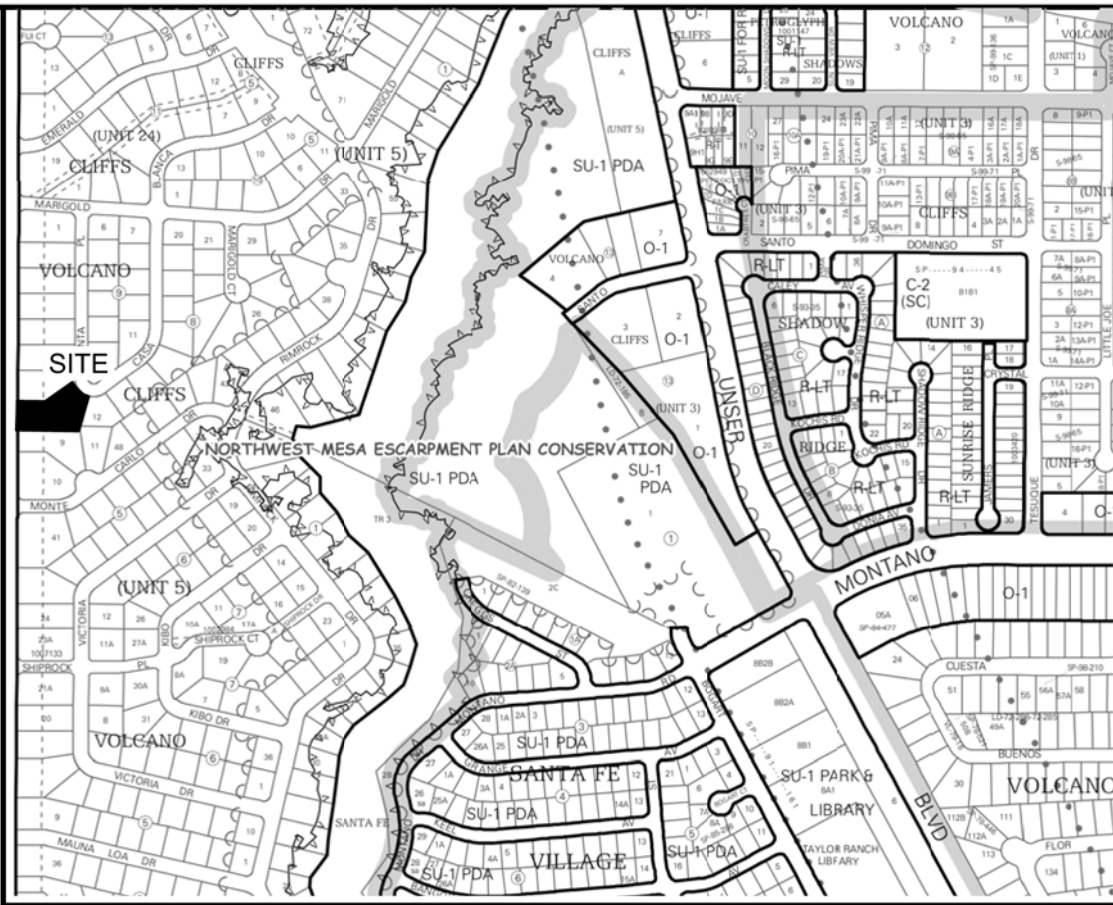


05/06/2022

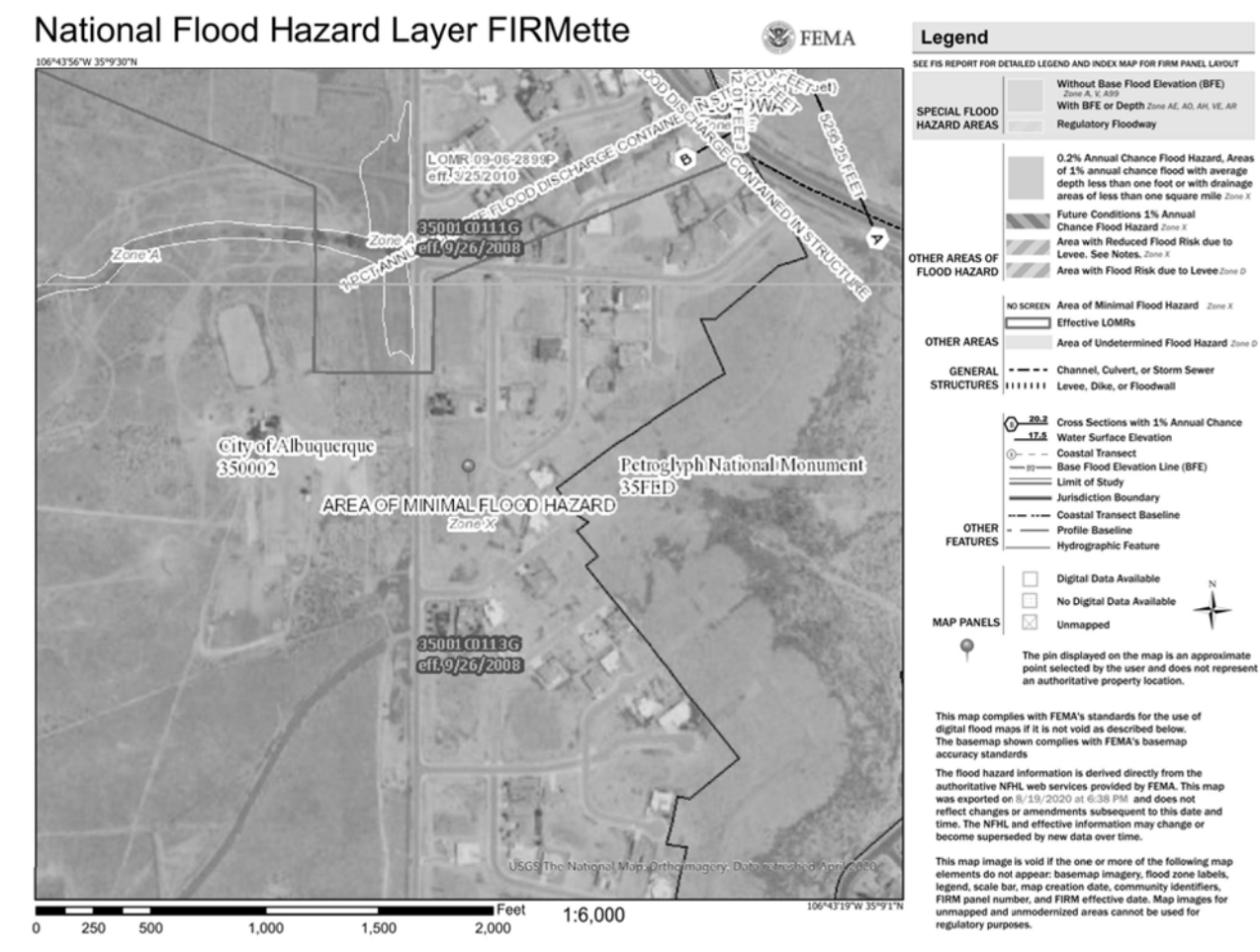
DATE

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: E-10-Z



FIRM MAP:

LEGAL DESCRIPTION:

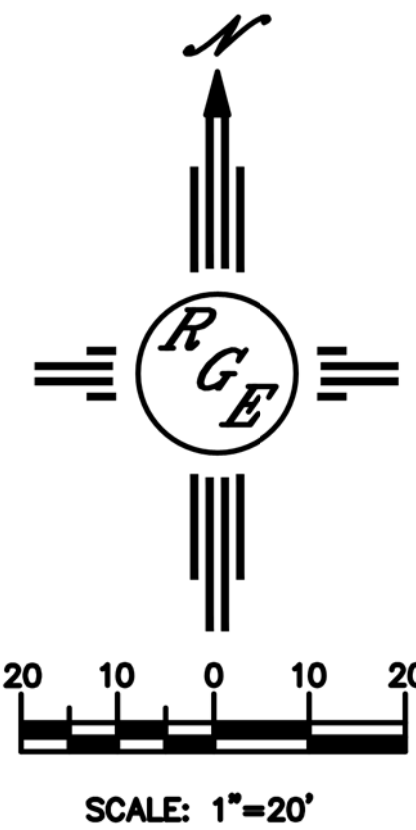
LOT 8 BLOCK 8 UNIT 5 VOLCANO CLIFFS CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

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

| | |
|---------|----------------------------|
| --- | EXISTING CONTOUR |
| - - - - | EXISTING INDEX CONTOUR |
| --- | PROPOSED CONTOUR |
| - - - - | PROPOSED INDEX CONTOUR |
| • | EXISTING SPOT ELEVATION |
| • | PROPOSED SPOT ELEVATION |
| --- | BOUNDARY |
| --- | PROPOSED EARTHEN SWALE |
| --- | ADJACENT BOUNDARY |
| ===== | EXISTING CURB AND GUTTER |
| ===== | PROPOSED CONCRETE DRIVEWAY |



| | | |
|---|--|-------------------------|
| ENGINEER'S SEAL DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER | LOT 8 BLK 8 UN 5 VC 6100 CASA BLANCA RD | DRAWN BY DEM |
| | GRADING AND DRAINAGE PLAN | DATE 8-20-20 |
| DAVID SOULE P.E. #14522 | 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 972-0999 | LOT 8 BLK 8 UN 5 VC.DWG |
| | | SHEET # C1 |
| | | JOB # |