# CITY OF ALBUQUERQUE

*Planning Department*
Brennon Williams, Director

*Mayor Timothy M. Keller*

April 20, 2021

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

**RE: 4913 Regina Circle NW**
**Revised Grading and Drainage Plan**
**Engineer's Stamp Date: 11/30/20**
**Engineer's Certification Date: 04/16/21**
**Hydrology File: J11D041**

Dear Mr. Soule:

Based upon the information provided in your submittal received 04/16/2021 and site photos sent on 04/16/21, the Grading and Drainage Plan is approved for Building Permit and Building Pad Certification for 4913 Regina Circle NW. 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 approval in support of Permanent Release of Occupancy by Hydrology, Engineer Certification per the DPM checklist will be required.

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov .

Sincerely,

Renée C. Brissette

Renée C. Brissette, P.E. CFM
Senior Engineer, Hydrology
Planning Department

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

# City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

**Project Title:** 4913 REGINA Building Permit #:_____ Hydrology File #: _____

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

Legal Description: LOT 65 REGINA ADDITION

City Address: 4913 REGINA

**Applicant:** _____ 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 __X__ RESIDENCE ___ DRB SITE ___ ADMIN SITE

Check all that Apply:

**DEPARTMENT:**

__X__ HYDROLOGY/ DRAINAGE

____ TRAFFIC/ TRANSPORTATION

**TYPE OF SUBMITTAL:**

____ ENGINEER/ARCHITECT CERTIFICATION

__X__ 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?: __X__ Yes ___ No

**TYPE OF APPROVAL/ACCEPTANCE SOUGHT:**

__X__ 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 A (acres) | Treatment B % | Treatment B (acres) | Treatment C % | Treatment C (acres) | Treatment D % | Treatment D (acres) | 100-Year, 6-hr Weighted E (ac-ft) | 100-Year, 6-hr Volume (ac-ft) | 24-Hour Flow cfs | 24-Hour Volume (ac-ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Existing | 17596.00 | 0.404 | 65% | 0.2629 | 15% | 0.061 | 20% | 0.081 | 0% | 0.000 | 0.688 | 0.023 | 0.80 | 0.023 |
| proposed | 17596.00 | 0.404 | 0% | 0 | 17% | 0.069 | 30% | 0.121 | 53% | 0.214 | 1.595 | 0.054 | 1.54 | 0.067 |
| increase | | | | -0.263 | | 0.008079 | | 0.040 | | 0.214 | | 0.031 | 0.74 | 0.044 |

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(zone2)

Ea= 0.53 Qa= 1.56
Eb= 0.78 Qb= 2.28
Ec= 1.13 Qc= 3.14
Ed= 2.12 Qd= 4.7

Developed Conditons

| | PEAK FLOW | TOTAL FLOW | VOLUME PROVIDED |
|---|---|---|---|
| EXISITING | 0.80 CFS | 1008 CF | 0 CF |
| PROPOSED | 1.54 CFS | 2914 CF | 646 CF |
| INCREASE FROM EX | 0.74 | 1906 | 646 CF |

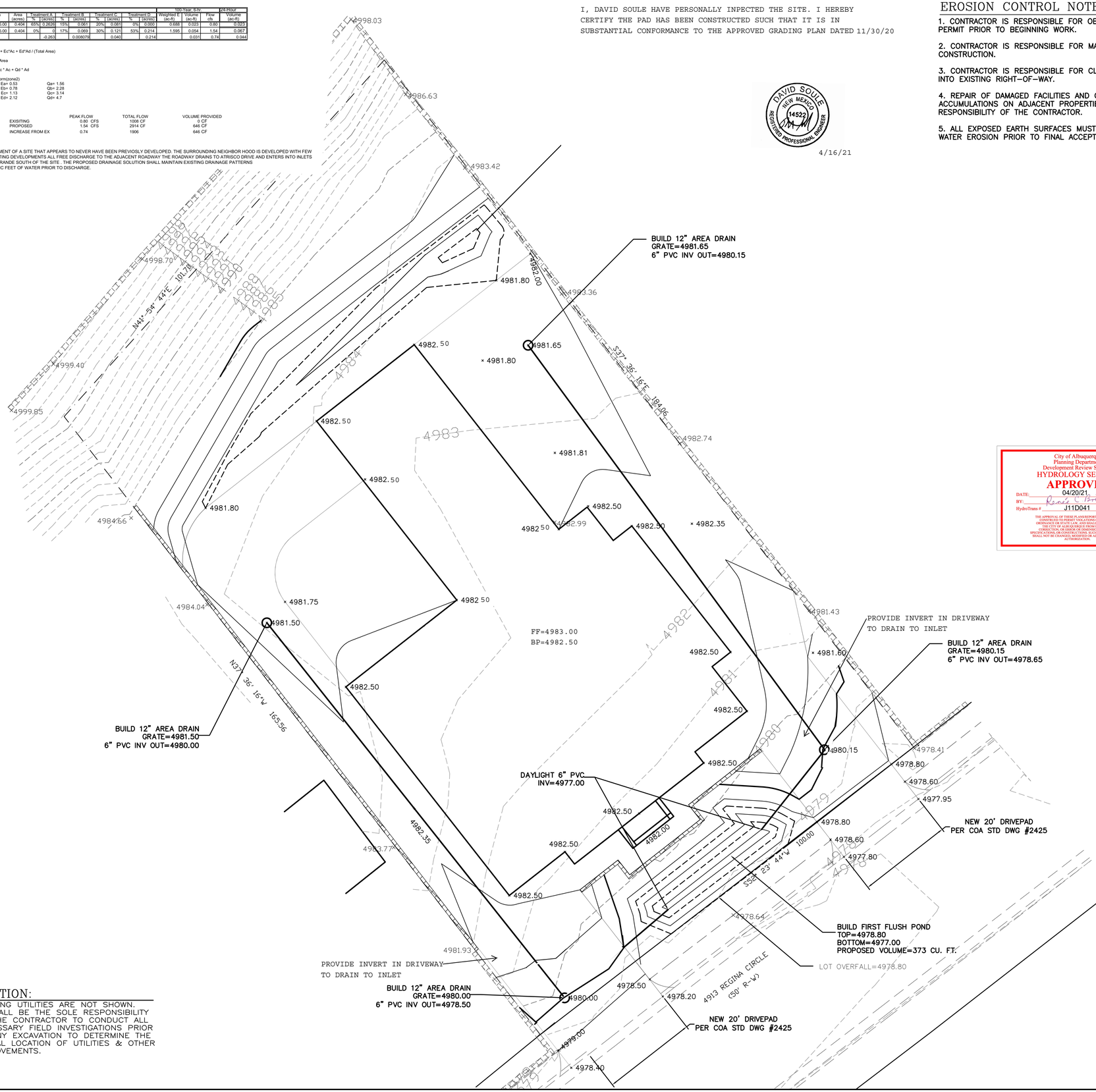
DRAINAGE NARRATIVE

THIS SITE IS A DEVELOPMENT OF A SITE THAT APPEARS TO NEVER HAVE BEEN PREVIOSLY DEVELOPED. THE SURROUNDING NEIGHBOR HOOD IS DEVELOPED WITH FEW VACANT LOTS. THE EXISTING DEVELOPMENTS ALL FREE DISCHARGE TO THE ADJACENT ROADWAY THE ROADWAY DRAINS TO ATRISCO DRIVE AND ENTERS INTO INLETS DRAINING TO THE RIO GRANDE SOUTH OF THE SITE . THE PROPOSED DRAINAGE SOLUTION SHALL MAINTAIN EXISTING DRAINAGE PATTERNS AND RETAINING 646 CUBIC FEET OF WATER PRIOR TO DISCHARGE.

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 11/30/20

DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER

4/16/21




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.

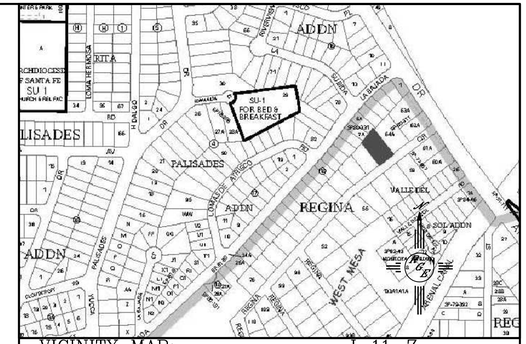
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.

4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.

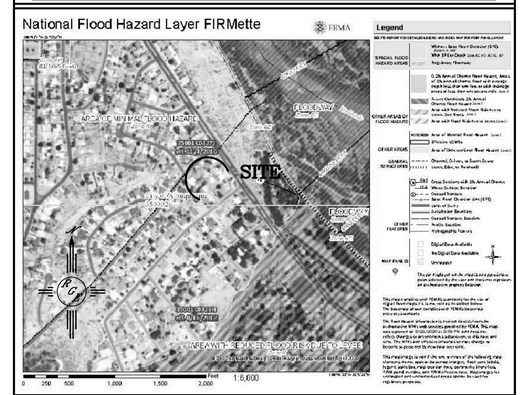
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.

City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
**APPROVED**
DATE: 04/20/21
BY: Renee Brissette
HydroTrans # J11D041

THE APPROVAL OF THESE PLANS/REPORT SHALL NOT BE CONSTRUED TO PERMIT VIOLATIONS OF ANY CITY ORDINANCE OR STATE LAW. THE APPROVAL SHALL NOT PREVENT THE CITY OF ALBUQUERQUE FROM REQUIRING CORRECTION, OR ERROR OR DISSENSIONS IN PLANS, SPECIFICATIONS, OR CONSTRUCTIONS. SUCH APPROVED PLANS SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT AUTHORIZATION.




VICINITY MAP: J-11-Z




FIRM MAP:

## LEGAL DESCRIPTION:

LOT 1, BLOCK 4, VOLCANO CLIFFS UNIT 18

## 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.

## LEGEND

- EXISTING CONTOUR
- EXISTING INDEX CONTOUR
- PROPOSED CONTOUR
- PROPOSED INDEX CONTOUR
- SLOPE TIE
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- BOUNDARY
- CENTERLINE
- RIGHT-OF-WAY
- PROPOSED 4" PVC SD
- POOL DECK TRENCH DRAIN
- EXISTING CURB AND GUTTER
- PROPOSED CMU SCREEN WALL-2" MAX. RETAINAGE

N

RGE

10 5 0 5 10

SCALE: 1"=10'

ENGINEER'S SEAL

DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER

11/30/20

DAVID SOULE
P.E. #14522

4913 REGINA

GRADING AND DRAINAGE PLAN

Rio Grande Engineering
1606 CENTRAL AVENUE SE
SUITE 201
ALBUQUERQUE, NM 87106
(505) 872-0999

DRAWN BY WCWJ

DATE 10-1-20

2102077-LAYOUT-10-01-20

SHEET # —

JOB # 2102077