CITY OF ALBUQUERQUE

Planning Department
Suzanne Lubar, Director

Mayor Richard J. Berry

June 28, 2017

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

RE: **Lot 15 Block 4 Unit 22 Volcano Cliffs SAD 228**
6423 Canavio St.NW
Grading and Drainage Plan
Engineers Stamp Date 4/27/17 (D10D003D15)
Pad Certification Dated 6/26/17

Dear Mr. Soule,

Based upon the information provided in your submittal received 6/27/17, this plan is approved for Building Permit.

Please inform the builder to attach a copy of this approved plan to the construction sets in the permitting process prior to sign-off by Hydrology. Also, notify the owner/contractor that a separate permit for any fence is required, and this is the plan to be used for the placement of the fence.

Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist of this plan will be required.

If you have any questions, please contact me at 924-3986 or Rudy Rael at 924-3977.

Sincerely,

James D. Hughes, P.E.
Principal Engineer, Hydrology
Planning Department

RR/JH
C: File

PO Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title: 6423 Canavio ST NW Building Permit #: _____ City Drainage #: D10D003D15

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

Legal Description: lot 15 block 4 volcano cliffs UNIT 22

City Address: 6423 Canavio ST NW

Engineering Firm: RIO GRANDE ENGINEERING Contact: DAVID SOULE

Address: PO BOX 93924, ALBUQUERQUE, NM 87199

Phone#: 505.321.9099 Fax#: 505.872.0999 E-mail: DAVID@RIOGRANDEENGINEERING.COM

Owner: Felicial Jackson Contact: _____

Address: 3901 Tundra Swan CT, NW

Phone#: _____ Fax#: _____ E-mail: _____

Architect: none Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Other Contact: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Check all that Apply:

DEPARTMENT:

x HYDROLOGY/ DRAINAGE

_____ TRAFFIC/ TRANSPORTATION

_____ MS4/ EROSION & SEDIMENT CONTROL

TYPE OF SUBMITTAL:

X 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) _____

IS THIS A RESUBMITTAL?: _____ Yes X No

CHECK 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

X GRADING/ PAD CERTIFICATION

_____ WORK ORDER APPROVAL

_____ CLOMR/LOMR

_____ PRE-DESIGN MEETING

_____ OTHER (SPECIFY) _____

DATE SUBMITTED: 6/26/17 By: _____

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: ___

Weighted E Method

Basin	Area	Area	Treatment A		Treatment B		Treatment C		Treatment D		Weighted E	100-Year, 6-hr. Volume	Flow
	(sf)	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	(ac-ft)	(ac-ft)	cfs
UPLAND	19183.00	0.440	0%	0	10%	0.044	40%	0.1762	50%	0.220	1.448	0.053	1.56
ALLOWED	13730.00	0.315	0%	0	10%	0.032	40%	0.1261	50%	0.158	1.448	0.038	1.11
PROPOSED	13730.00	0.315	0%	0	30%	0.095	33%	0.104	37%	0.117	1.257	0.033	1.00
total													

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 Conditons
FIRST FLUSH WATER QUALITY VOLUME

	REQUIRED (CF)	PROVIDED (CF)
WATER QUALITY	144	621

Narrative

This site is within the SAD 228 Master Drainage plan boundaries. The site is designed to drain the house and side yard to the street. The rear yard is too low to drain to the street and but ponding and swales will provide positive drainage from house and allow patterns per the master drainage plan. We are ponding the water harvest volume generated by the site. We are allowing the upland flow to enter the site. This plan has shallow water harvest ponds in excess of the drainage regulations. This plan is in conformance to the master drainage plan

TURNED BLOCKS

Weir Equation:

$$Q = CLH^{3/2}$$

wale thru walls

Q= 2.92 cfs
C = 2.95
H = 0.5 ft
L = Length of weir

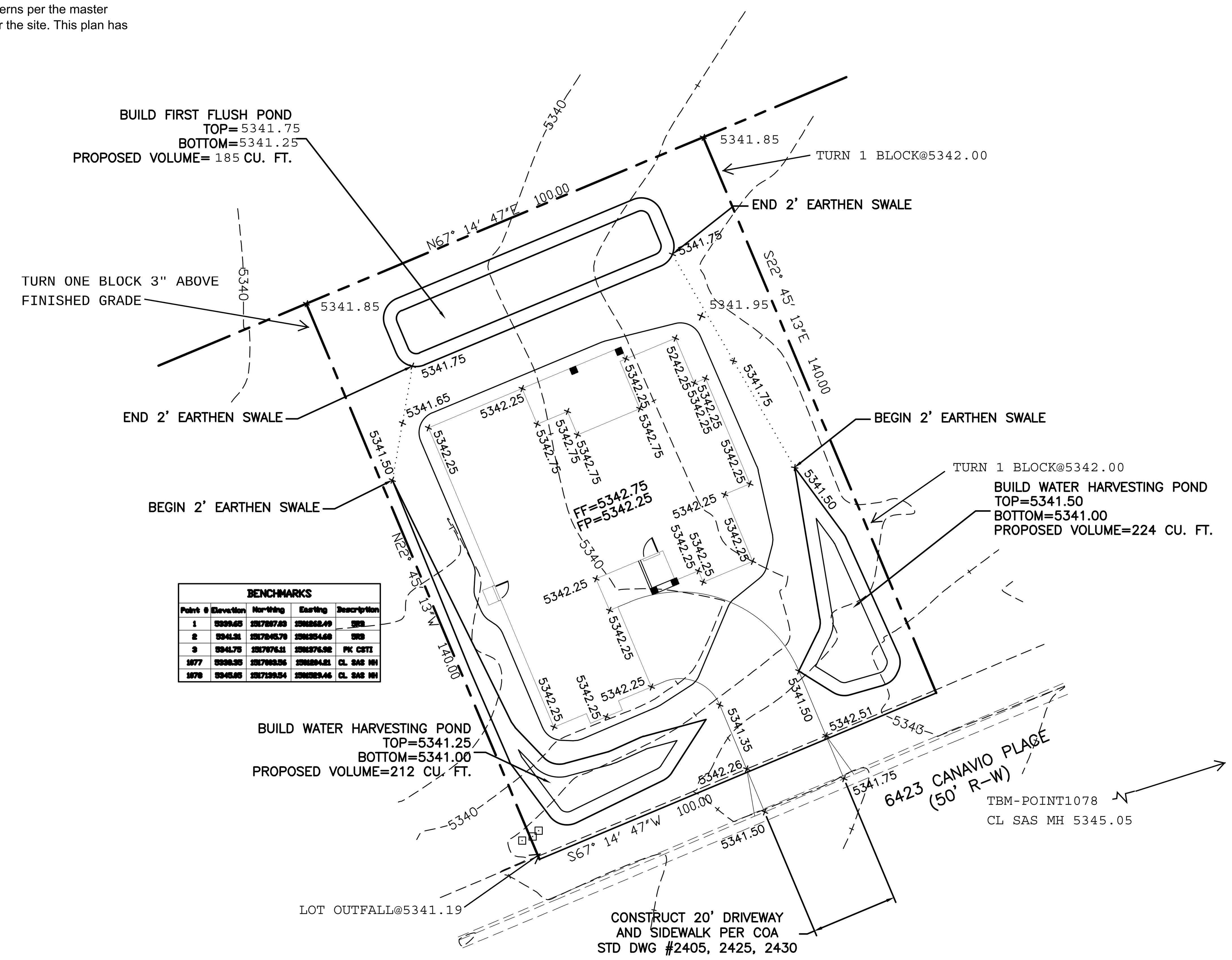
$$Q = 2.95 * .5 * ((0.5)^{(3/2)})$$

Each opening is 6"x6"
Each block has two openings
Each opening has .52 cfs capacity,
Therefore each turned block has 1.04 cfs capacity

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 4/27/17

DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER

6/26/17



EROSION CONTROL NOTES:

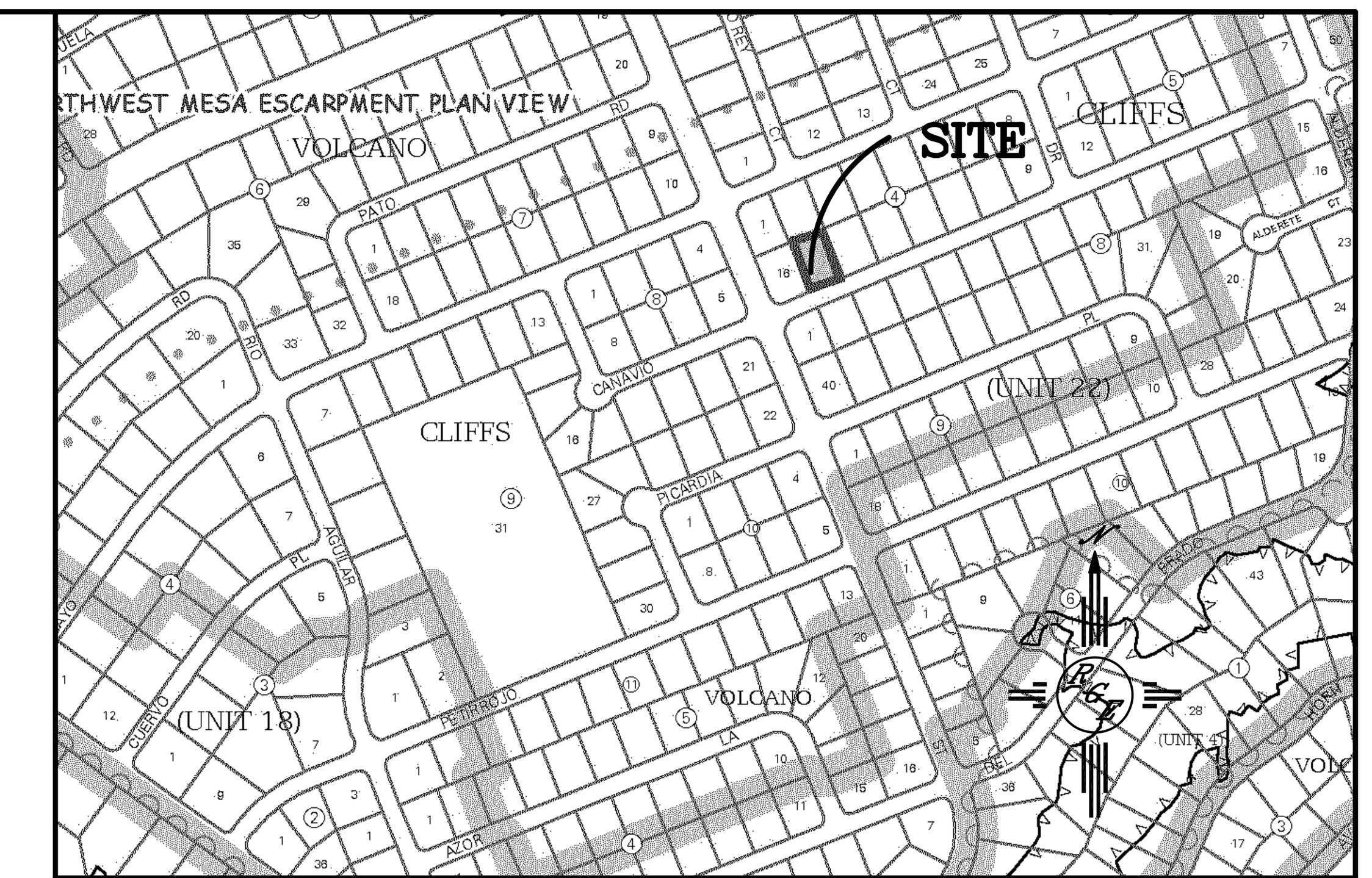
1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.

2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.

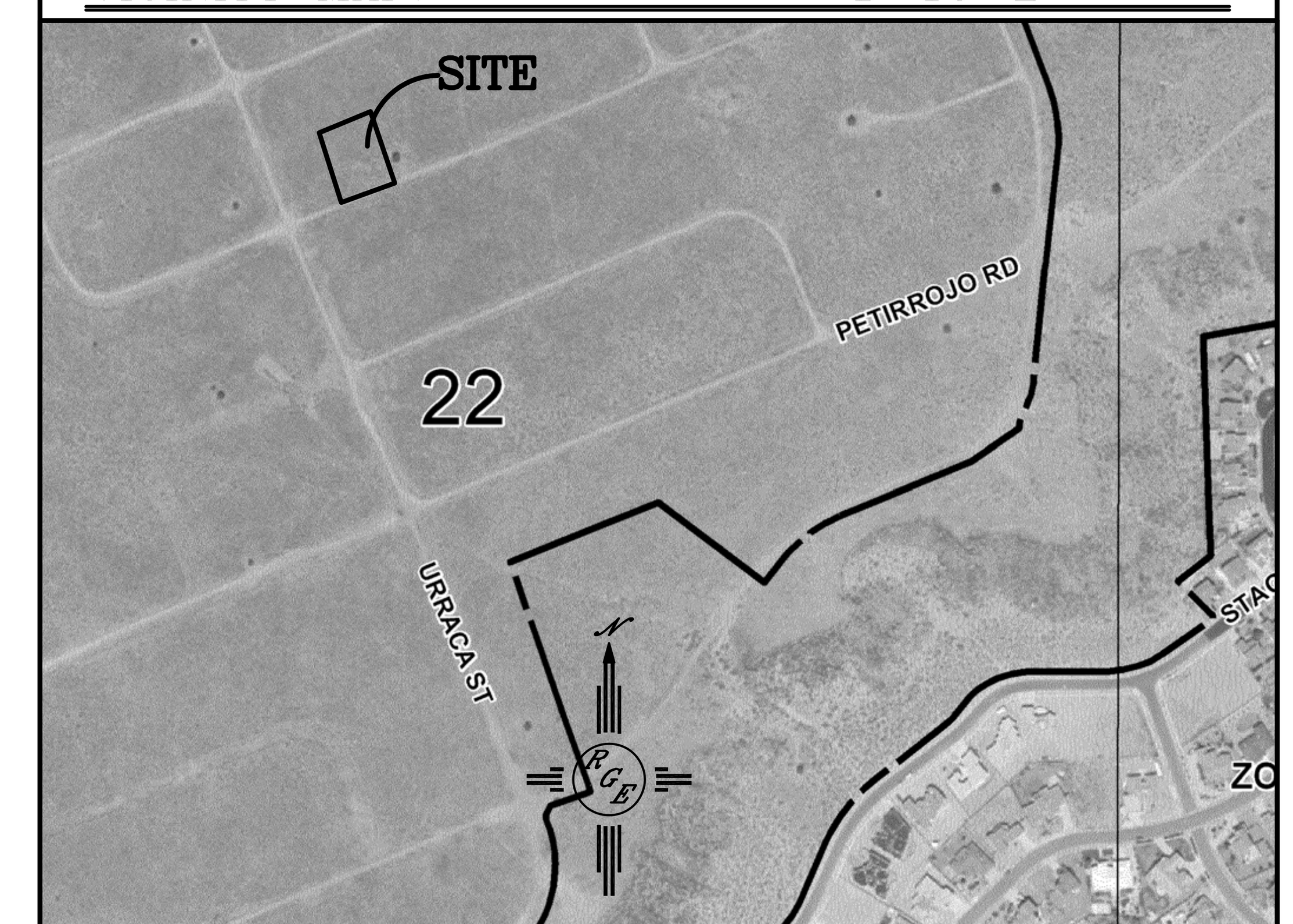
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.

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: FM35001C0112G

LEGAL DESCRIPTION:

LOT 15 BLOCK 4 UNIT NO. 22 VOLCANO CLIFFS SUBDIVISION

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 PERMITED SEPARATELY. ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.

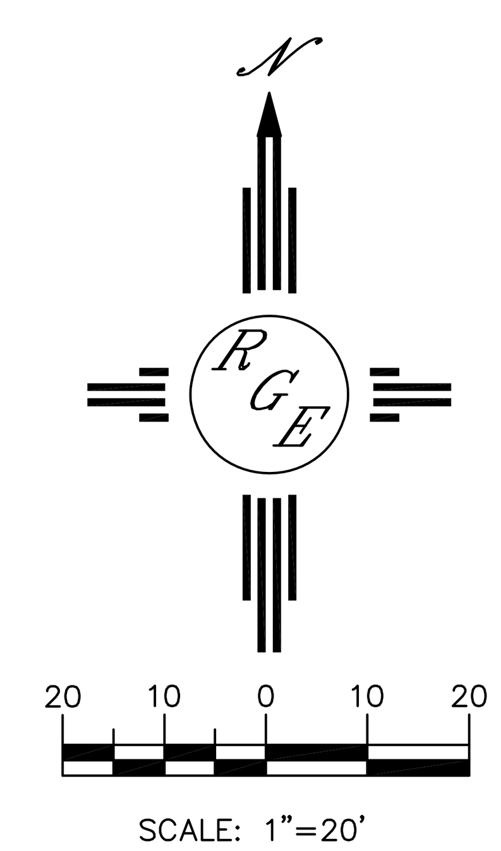
4. A PAD CERTIFICATION IS REQUIRED PRIOR TO ISSUANCE OF BUILDING PERMIT

LEGEND

------xxxx------	EXISTING CONTOUR
------xxxx------	EXISTING INDEX CONTOUR
xxxx	PROPOSED CONTOUR
xxxx	PROPOSED INDEX CONTOUR
	SLOPE TIE
· xxxx	EXISTING SPOT ELEVATION
• xxxx	PROPOSED SPOT ELEVATION
	BOUNDARY
	CENTERLINE
	RIGHT-OF-WAY
	EXISTING CURB AND GUTTER
	PROPOSED CMU SCREEN WALL 0'-3' MAX RETAINAGE (DESIGN BY OTHERS)

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	6423 CANAVIO PLACE	DRAWN BY WCWJ
DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER	GRADING AND DRAINAGE PLAN	DATE 4-26-17
4/27/17		21731-LAYOUT-4-26-17
DAVID SOULE P.E. #14522	Rio Grande Engineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	SHEET # —
		JOB # 21731