

CITY OF ALBUQUERQUE

Planning Department
Suzanne Lubar, Director



Mayor Richard J. Berry

October 20, 2015

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

**RE: Lot 18, Block 7 Volcano Cliffs
6531 Papagayo Rd NW
Grading and Drainage Plan
Engineer's Stamp Date 9-30-15 (D10D003L10)**

Dear Mr. Soule,

PO Box 1293

Based upon the information provided in your submittal received 10/2/15, this plan is approved for Grading Permit and Building Permit.

Albuquerque

Please attach a copy of this approved plan to the construction sets in the permitting process prior to sign-off by Hydrology.

New Mexico 87103

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

www.cabq.gov

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

Sincerely,

Rita Harmon, P.E.
Senior Engineer, Hydrology
Planning Department

RR/RH



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: _____

Equations:

Weighted E = $Ea^2Aa + Eb^2Ab + Ec^2Ac + Ed^2Ad / (\text{Total Area})$

Volume = Weighted D * Total Area

Flow = $Qa^2 Aa + Qb^2 Ab + Qc^2 Ac + Qd^2 Ad$

Where for 100-year, 6-hour storm - zone 1

Ea= 1.64	Qa= 1.23
Eb= 0.67	Qb= 2.03
Ec= 0.59	Qc= 2.07
Ed= 1.97	Qd= 4.37

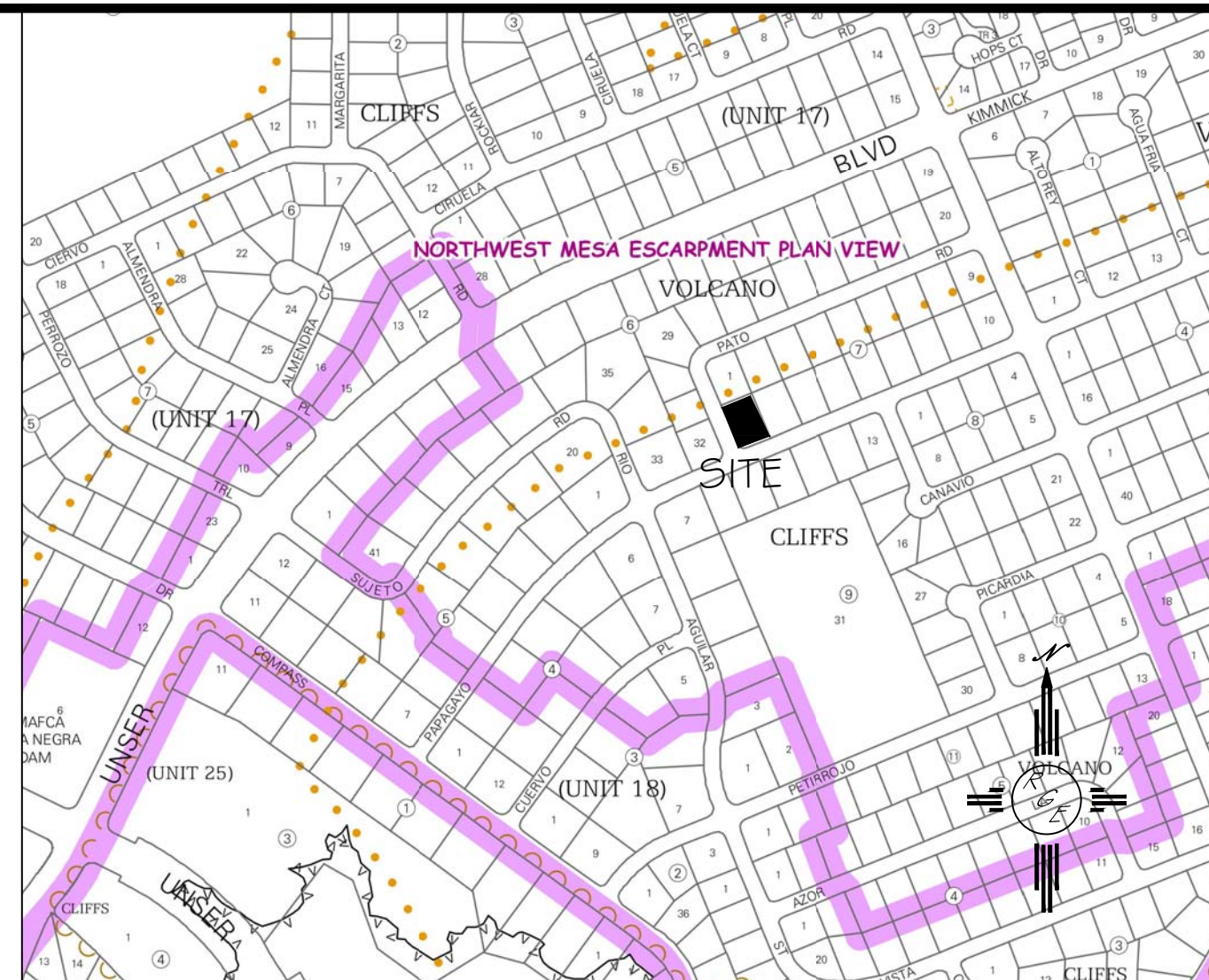
ONSITE Conditions

FIRST FLUSH WATER QUALITY VOLUME REQUIRED (QT)	PROVIDED (QT)
138	243

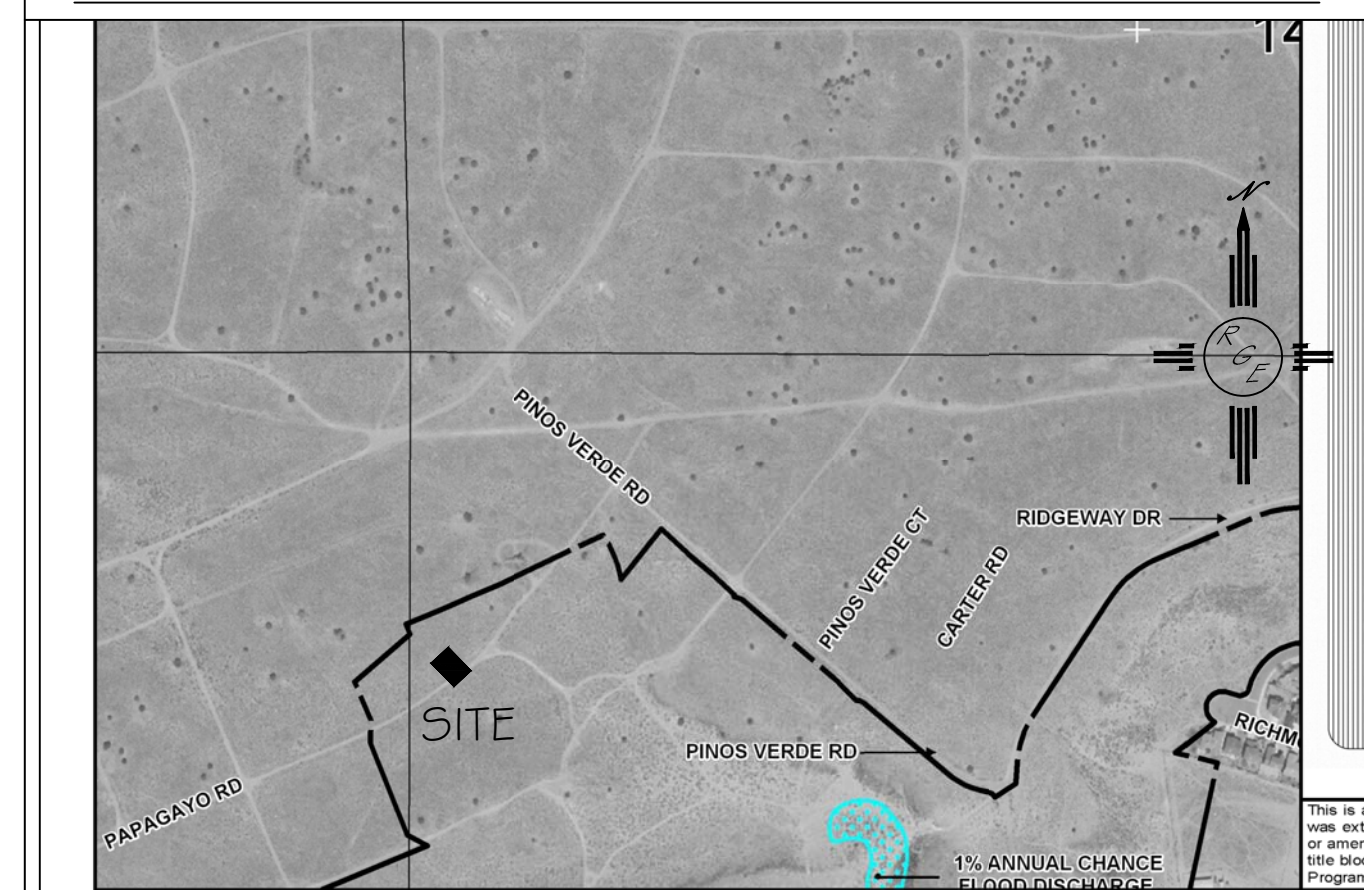
Narrative	<p>This site is within the SAD 228 Master Drainage plan boundaries. The site is to drain to the adjacent street per the master drainage plan. We are ponding the water harvest volume generated by the site we are allowing the minor upland flow to pass thru the site. This plan has a shallow water harvest pond per the drainage regular.</p> <p>This plan is in conformance to the masterplan</p>
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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 (CITY) ACCEPTANCE OF ANY PROJECT.



VICINITY MAP:



FIRM MAP:

FM3500 | C0 | 12G



LEGAL DESCRIPTION:


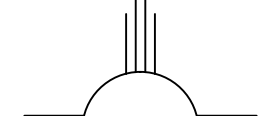
LOT 18, BLOCK 7, VOLCANO CLIFFS UNIT 18

NOTES:

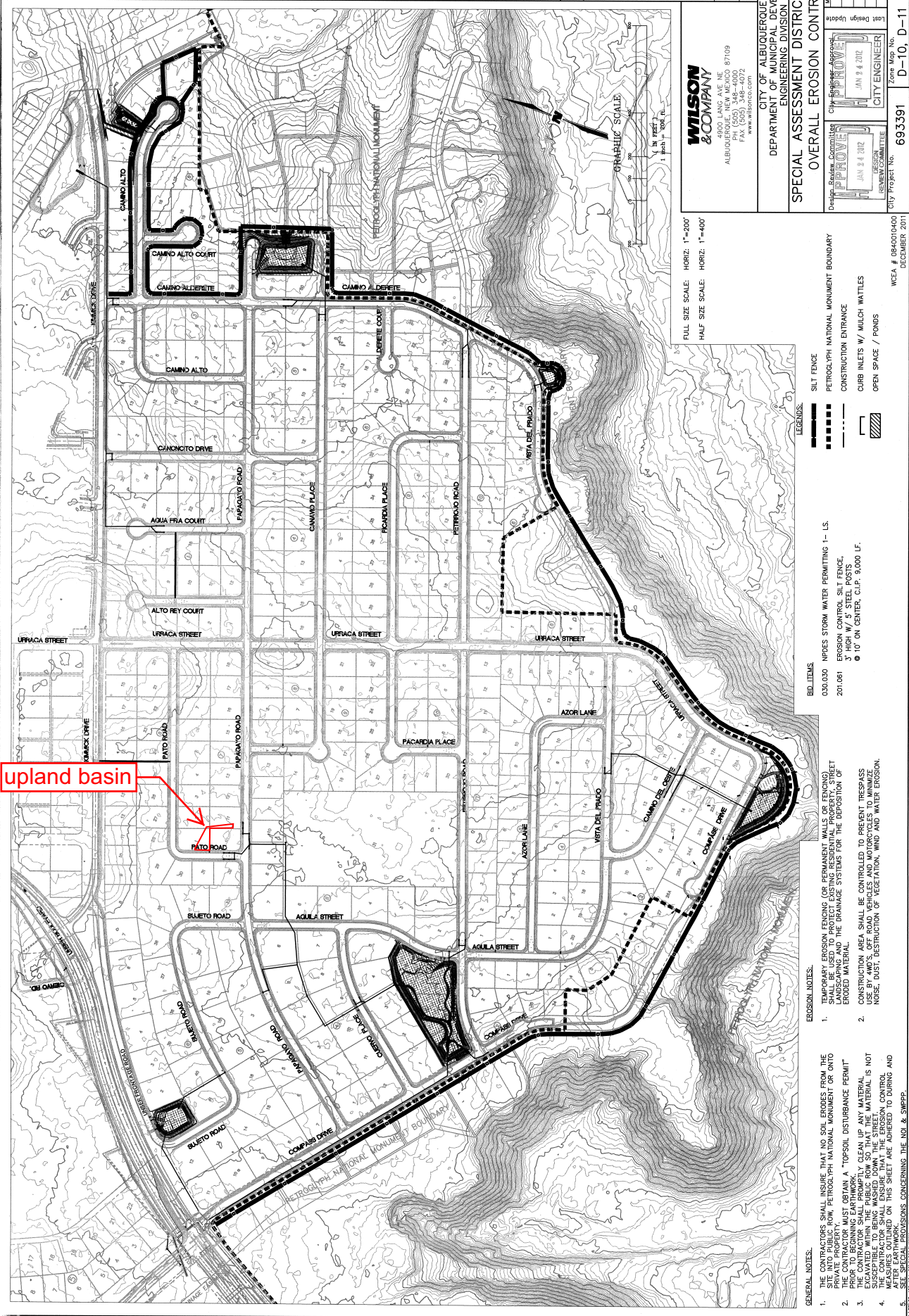
1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. TOPOGRAPHIC SURVEY INFORMATION SHOWN ON THIS PLAN WAS OBTAINED BY
CONSTRUCTION SURVEY TECHNOLOGIES, DAVID ACOSTA PLS 2081, DATED MAY 2015

LEGEND

-
- - - - -5411- - - - - EXISTING CONTOUR
 — — — —5410— — — — EXISTING INDEX CONTOUR
 — — — —5411— — — — PROPOSED CONTOUR
 — — — —5410— — — — PROPOSED INDEX CONTOUR
 FLOW DIRECTION—SWALE
 PROPOSED SPOT (FLOW—LINE)

ENGINEER'S SEAL	LOT 18, BLOCK 7, UNIT 18 VOLCANO CLIFFS SUBDIVISION	DRAWN BY: J.D.G.
	GRADING AND DRAINAGE PLAN	DATE 10-01-2015
9/30/15	 <i>Rio Grande</i> <i>Engineering</i> 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0909	SHEET # I OF I
DAVID SOULE P.E. #14522		JOB #

CHECKED BY: S.M. DATE: JAN. 2012 DESIGNED BY: S.M. DATE: JAN. 2012 WILSON & COMPANY, ENGINEERS & ARCHITECTS 4800 LANG AVE. NE ALBUQUERQUE, NM 87109 TEL: (505) 348-1000 FAX: (505) 348-4072 www.wilsonco.com		NO. DATE REMARKS BY	
SURVEY INFORMATION FIELD NOTES NO. BY DATE		ENGINEER'S SEAL 	
BENCH MARKS ACS BRASS CAP, STAMPED "3-E10" SET IN TOP OF CONCRETE POST PROJECTING 0.30 FT. ABOVE GROUND, LOCATED APPROX. 225' E. OF THE INTERSECTION OF RIM ROCK DR. NW AND MARICOPA DR. NW (NAD 1983), X 1499509.808, Y 1512627.946 ELEVATION = 5318.89 FT. (NAD 1988)		AS-BUILT INFORMATION MICRO-FILM INFORMATION NO. DATE MICROFILMED BY: S.M. DATE: JAN. 2012 MICROFILM NO.: 1512627.946	



upland basin

- LEGEND:**
- SILT FENCE
 - PETROGLYPH NATIONAL MONUMENT BOUNDARY
 - CONSTRUCTION ENTRANCE
 - CURB INLETS W/ MULCH WATTLES
 - OPEN SPACE / PONDS

- NOTES:**
- TEMPORARY EROSION FENCING (OR PERMANENT WALLS OR FENCING) SHALL BE USED TO PROTECT EXISTING RESIDENTIAL PROPERTY, STREET OR OTHER ADJACENT PROPERTY FROM THE DEPOSITION OF ERODED MATERIAL.
 - CONSTRUCTION AREA SHALL BE CONTROLLED TO PREVENT TRAFFIC USE BY VEHICLES, OFF ROAD VEHICLES AND MOTORCYCLES TO MINIMIZE NOISE, DUST, DESTRUCTION OF VEGETATION, WIND AND WATER EROSION.

- GENERAL NOTES:**
- THE CONTRACTORS SHALL INSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC ROW, PETROGLYPH NATIONAL MONUMENT OR ONTO ADJACENT PROPERTY.
 - THE CONTRACTOR MUST OBTAIN A "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING EARTHWORK.
 - EXCAVATED MATERIAL SHALL BE PROPERLY CLEANED UP AND NOT EXPOSED TO THE PUBLIC ROW SO THAT THE MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.
 - CONSTRUCTION SHALL BE CONTROLLED TO PREVENT TRAFFIC USE BY VEHICLES, OFF ROAD VEHICLES AND MOTORCYCLES TO MINIMIZE NOISE, DUST, DESTRUCTION OF VEGETATION, WIND AND WATER EROSION.
 - SEE SPECIAL PROVISIONS CONCERNING THE NOI & SWPPP.

- EROSION NOTES:**
- 0.00 DRAINAGE PERMITTING 1-LS.
 - 201.061 EROSION CONTROL SILT FENCE, 5' HIGH, 6" STEEL PIPE, 10' ON CENTER, C.I.P. 9,000 U.F.

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 ALBUQUERQUE, NM 87109
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CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

SPECIAL ASSESSMENT DISTRICT 228-VOL. 1
OVERALL EROSION CONTROL PLAN

Design Review Committee
 APPROVE
 JAN 9 4 2012
 City Engineer
 APPROVE
 JAN 9 4 2012
 City Engineer

City Project No. 693391
 Zone Map No. D-10, D-11
 Sheet 9 of 156
 NCEA & ORA001A00
 DECEMBER 2011

Weighted E Method													
Basin	Area (sf)	Area (acres)	Treatment A		Treatment B		Treatment C		Treatment D		100-Year 6-hr.		
			%	(acres)	%	(acres)	%	(acres)	%	(acres)	Volume (ac-ft)	Flow cfs	
UPLAND	4305.00	0.099	0%	0	10%	0.010	40%	0.03953	50%	0.049	1.448	0.012	0.35
NATIVE	14335.00	0.329	80%	0.2633	10%	0.033	10%	0.03291	0%	0.000	0.518	0.014	0.50
ALLOWED	14335.00	0.329	0%	0	10%	0.033	40%	0.13163	50%	0.165	1.448	0.040	1.16
PROPOSED	14335.00	0.329	0%	0	24%	0.079	42%	0.13822	34%	0.112	1.246	0.034	1.05
INCREASE													
total												0.020	

Equations:

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

Volume = Weighted D * Total Area

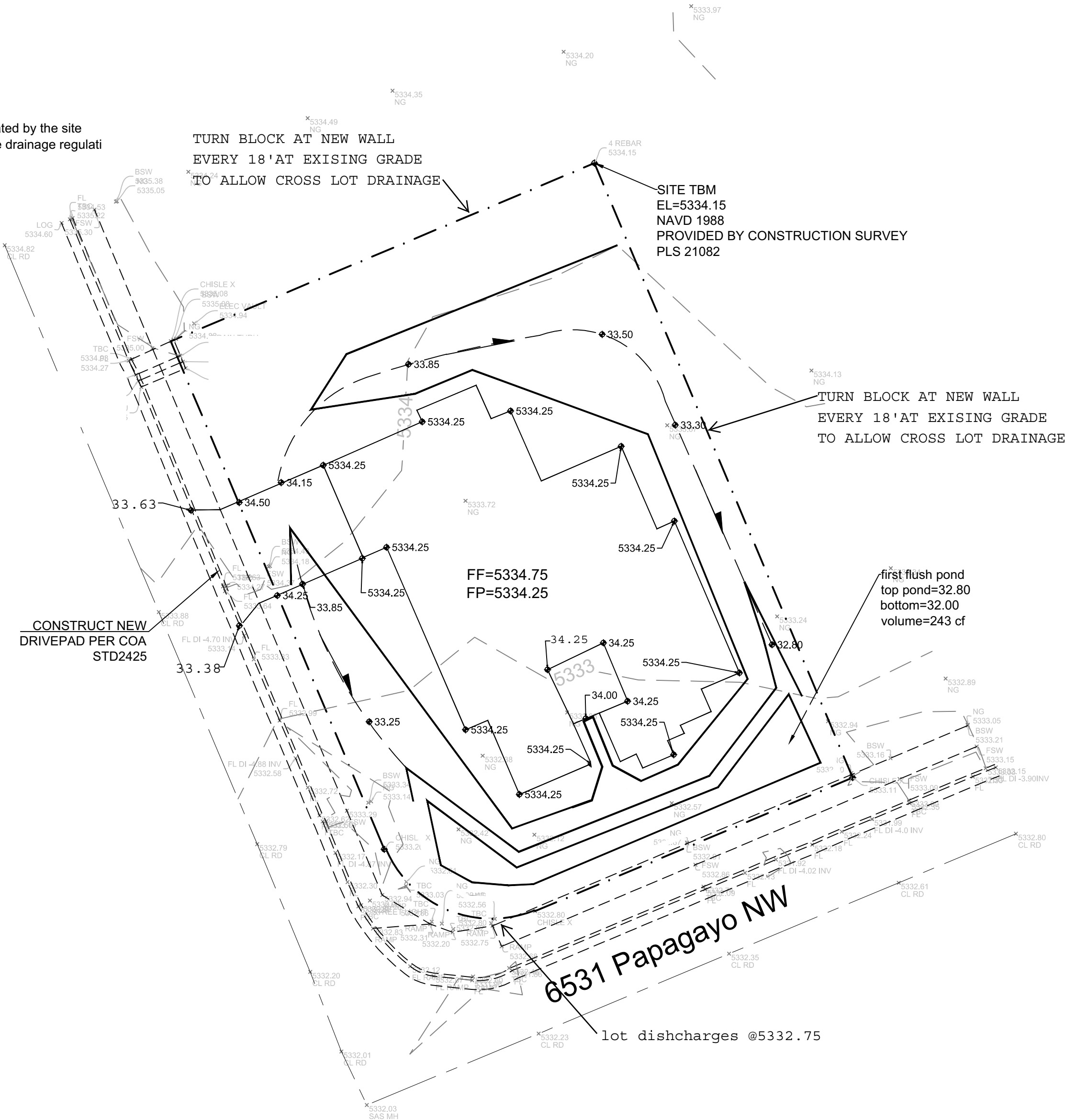
Flow = Qa * Aa + Qb * Ab + Qc * Ac + Qd * Ad

Where for 100-year, 6-hour storm- zone 1
Ea= 0.44
Eb= 0.67
Ec= 0.99
Ed= 1.97
Qa= 1.29
Qb= 2.03
Qc= 2.87
Qd= 4.37

ONSITE Conditions		
FIRST FLUSH WATER QUALITY VOLUME	REQUIRED	PROVIDED
	(CF)	(CF)
WATER QUALITY	138	243

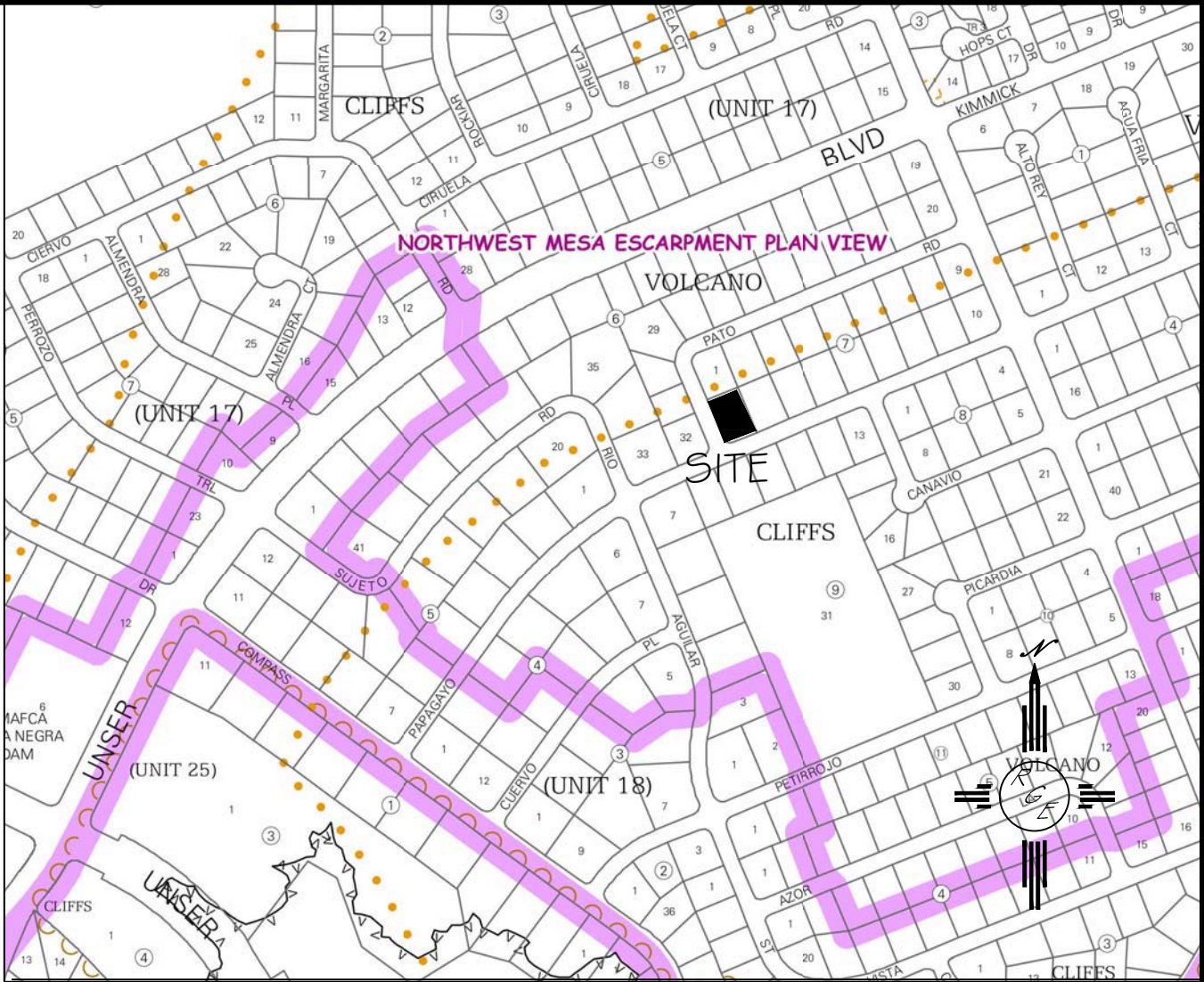
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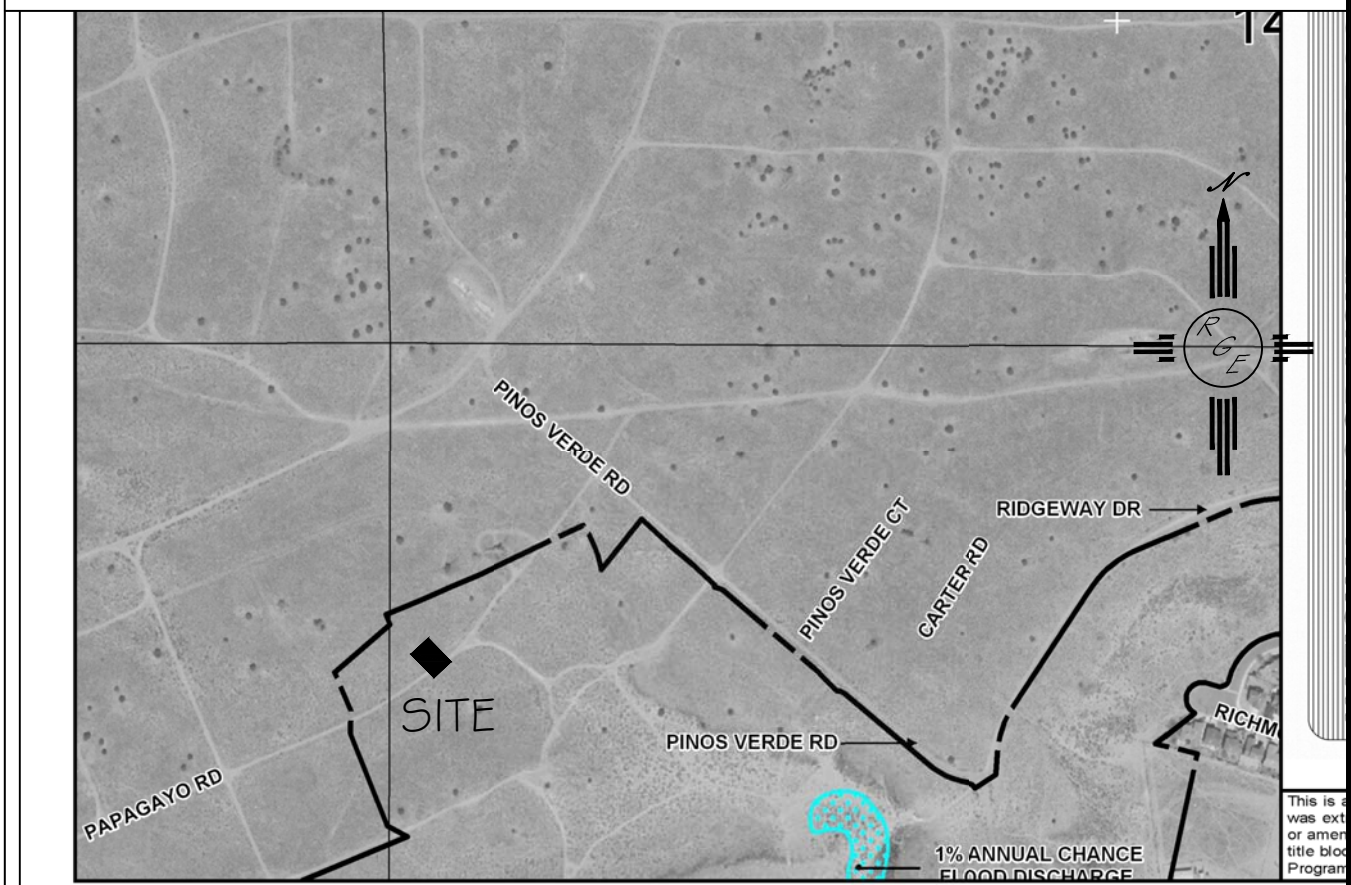


EROSION CONTROL NOTES:

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FIRM MAP:

FM35001C0112G

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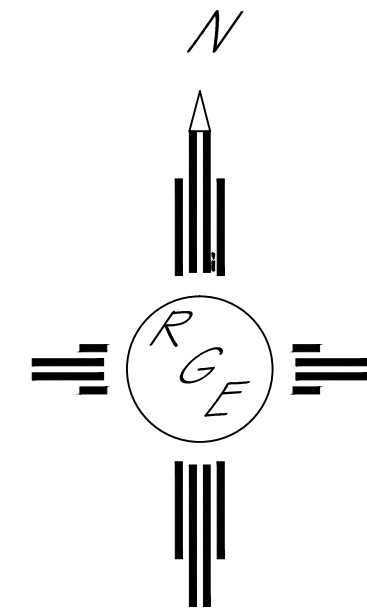
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LEGEND


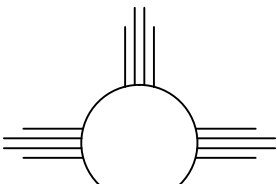
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- 5410--- PROPOSED INDEX CONTOUR
- FLOW DIRECTION-SWALE
- PROPOSED SPOT (FLOW-LINE)



GRAPHIC SCALE

20 10 0 10 20

SCALE: 1"=20'

ENGINEER'S SEAL  9/30/15	LOT 18, BLOCK 7, UNIT 18 VOLCANO CLIFFS SUBDIVISION	DRAWN BY JDG
	GRADING AND DRAINAGE PLAN	DATE 10-01-2015
DAVID SOULE P.E. #14522	 Rio Grande Engineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	SHEET # 1 OF 1
		JOB #

