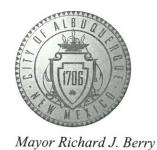
CITY OF ALBUQUERQUE

Planning Department
Suzanne Lubar, Director



September 7, 2016

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

RE: Abrazo Homes

Lot 5 Block 5 Unit 18 SAD 228

6615 Papagayo NW

Grading and Drainage Plan

Engineers Stamp Date 8/9/16 (D10D003K5)

Dear Mr. Soule,

PO Box 1293

Based upon the information provided in your submittal received 8/12/16, this plan is approved for Grading Permit and Building Permit.

Albuquerque

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 the fence is required.

New Mexico 87103

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

www.cabq.gov

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

Sincerely

Principal Engineer, Hydrology

Planning Department

Abiel Carrillo, P.E.

RR/AC C: File



City of Albuquerque

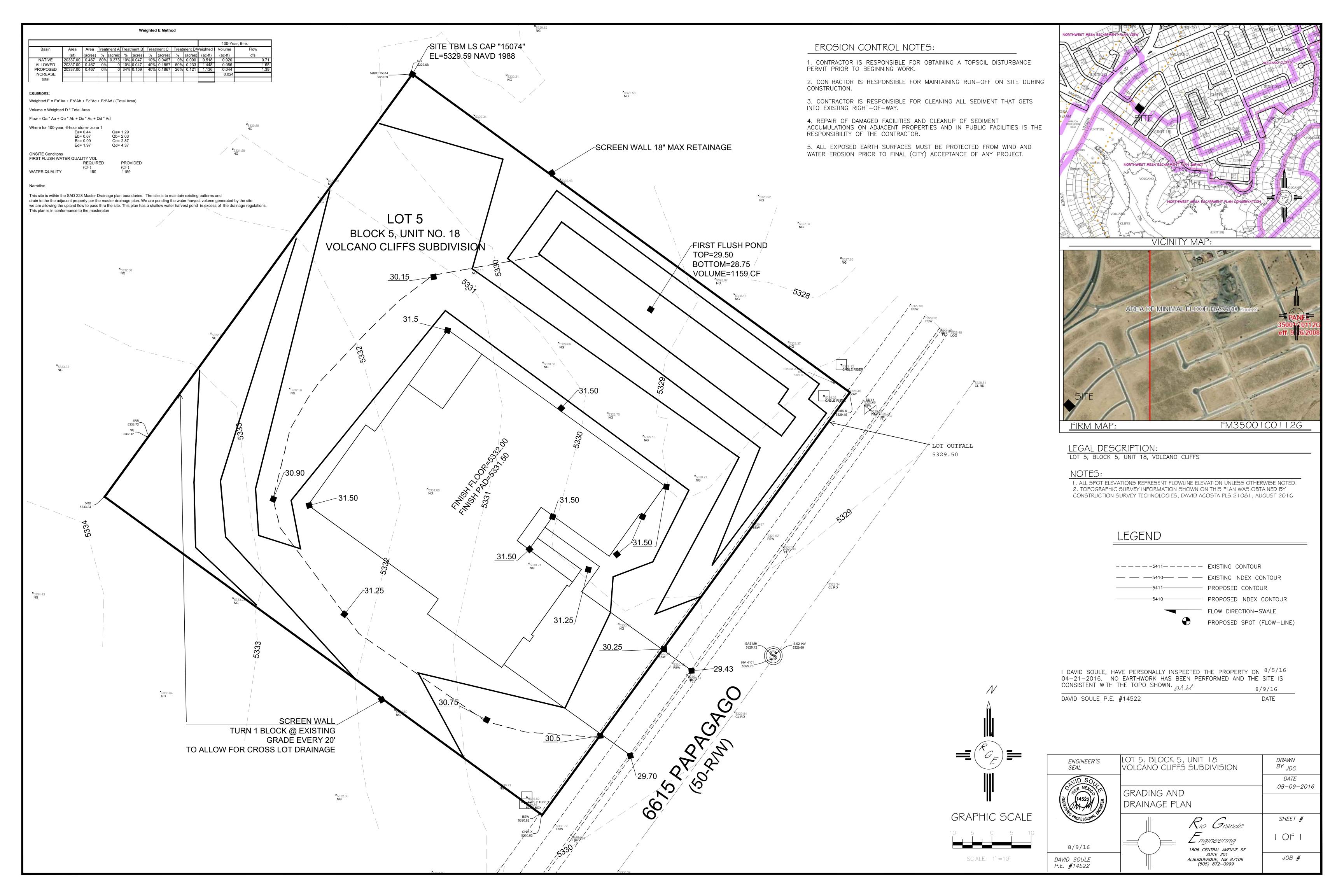
Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title:	Building Permit #: City Drainage #:						
DRB#: EPC#:							
Legal Description:							
City Address:							
Engineering Firm:	Contact:						
Address:							
Phone#: Fax#:	E-mail:						
Owner:	Contact:						
Address:							
Phone#: Fax#:	E-mail:						
Architect:							
Address:							
	E-mail:						
Other Contact:	Contact:						
Address:							
Phone#: Fax#:	E-mail:						
DEPARTMENT: HYDROLOGY/ DRAINAGE TRAFFIC/ TRANSPORTATION MS4/ EROSION & SEDIMENT CONTROL	CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT: BUILDING PERMIT APPROVAL CERTIFICATE OF OCCUPANCY						
	CERTIFICATE OF OCCUPANCE						
TYPE OF SUBMITTAL:	PRELIMINARY PLAT APPROVAL						
ENGINEER/ ARCHITECT CERTIFICATION	SITE PLAN FOR SUB'D APPROVAL						
CONCEPTUAL G & D PLAN	SITE PLAN FOR BLDG. PERMIT APPROVAL						
GRADING PLAN	FINAL PLAT APPROVAL SIA/ RELEASE OF FINANCIAL GUARANTEE						
DRAINAGE MASTER PLAN	FOUNDATION PERMIT APPROVAL						
DRAINAGE REPORT	GRADING PERMIT APPROVAL						
CLOMR/LOMR	SO-19 APPROVAL						
	PAVING PERMIT APPROVAL						
TRAFFIC CIRCULATION LAYOUT (TCL)	GRADING/ PAD CERTIFICATION						
TRAFFIC IMPACT STUDY (TIS)	WORK ORDER APPROVAL						
EROSION & SEDIMENT CONTROL PLAN (ESC)	CLOMR/LOMR						
OTHER (SPECIFY)	PRE-DESIGN MEETING						
	OTHER (SPECIFY)						
IS THIS A RESUBMITTAL?: Yes No							
DATE SUBMITTED:By:							

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: ____



Weighted E Method

								100-Year, 6-hr.						
Basin	Area	Area	Treatment A		Treatment B		Treatment C		Treatment DW		Veighted I	Volume	Flow	
	(sf)	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	(ac-ft)	(ac-ft)	cfs	
NATIVE	20337.00	0.467	80%	0.373	10%	0.047	10%	0.0467	0%	0.000	0.518	0.020	(0.71
ALLOWED	20337.00	0.467	0%	0	10%	0.047	40%	0.1867	50%	0.233	1.448	0.056	,	1.65
PROPOSED	20337.00	0.467	0%	0	34%	0.159	40%	0.1867	26%	0.121	1.136	0.044	,	1.39
INCREASE												0.024		
total														
UPLAND	12167.00	0.279	0%	0	10%	0.028	40%	0.1117	50%	0.140	1.448	0.034	(0.99

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 VOL

REQUIRED PROVIDED (CF)

WATER QUALITY 150 1159

Narrative

This site is within the SAD 228 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the the adjacent property per the master drainage plan. We are ponding the water harvest volume generated by the site we are allowing the upland flow to pass thru the site. This plan has a shallow water harvest pond in excess of the drainage regulations. This plan is in conformance to the masterplan

