CITY OF ALBUQUERQUE

Planning Department Brennon Williams, Director



Mayor Timothy M. Keller

April 22, 2021

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

RE: 9401 Black Farms Lane Revised Grading and Drainage Plan for Swimming Pool Engineer's Stamp Date: 04/14/21 Hydrology File: C13D027C

Dear Mr. Soule:

PO Box 1293 Based upon the information provided in your submittal received 04/14/2021, the Revised Grading and Drainage Plan for Swimming Pool is approved for Grading Permit. Building Permit, and Pool Permit.

Albuquerque 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 <u>rbrissette@cabq.gov</u>.

NM 87103

Sincerely,

www.cabq.gov

enée C. Brissette

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

Weighted E Method BLACK FARMS

Existing Developed Basins														
10							100-Year, 6-hr.			10-day				
Basin	Area	Area	Treatment	А	Treatment	В	Treatm	ient C	Treatmen	t D	Weighted E	Volume	Flow	Volume
	(sf)	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	(ac-ft)	(ac-ft)	cfs	(ac-ft)
PROPOSED	33155	0.761	0%	0	36.0%	0.274	15).0%	0.36534	19 - 16%	0.122	1.032	0.065	2.14	0.082
HISTORICAL	33155	0.761	0%	0	100.0%	0.761	0.0%	0	0%	0.000	0.670	0.042	1.55	0.042

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
EXISTING 24-HOUR VOLUME PROPOSED 24-HOUR VOLUME WATER QUALITY REQUIREMEN PONDING REQUIRED PONDING PROVIDED		

SITE IS LOCATED WTIHIN A FULLY DEVELOPED SUBDIVISION. THE ADJACENT ROADWAY DOES NOT HAVE CURB AND GUTTER. THE DRAINAGE MANAGEMENT PLAN (C13D027) FOR THIS LOT CALLS FOR THE ONSITE RETENTION OF THE TOTAL FLOW GENERATED BY THIS DEVELOPMENT USING THE10-DAY EVENT DUE TO THE EXISTING GRADES THE PONDING WILL BE AT THE FRONT OF THE LOT RATHER THAN THE REAR.

CALCULATIONS HAVE BEEN UPDATED TO ACCOUNT FOR A NEW POOL, SPA AND POOL DECK

Project Benchmark Fnd Rebar w/Cap (LS 9750) Elev=4992.97

50.01 20.01

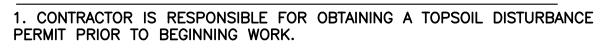
C1: R=509.00' L=18.09' C=18.09' CB=N31*58'18"E ?=2°02'11"

C2: R=209.99' L=21.65' C=21.64' CB=N29'23'40"E ?=5*54'27"

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:

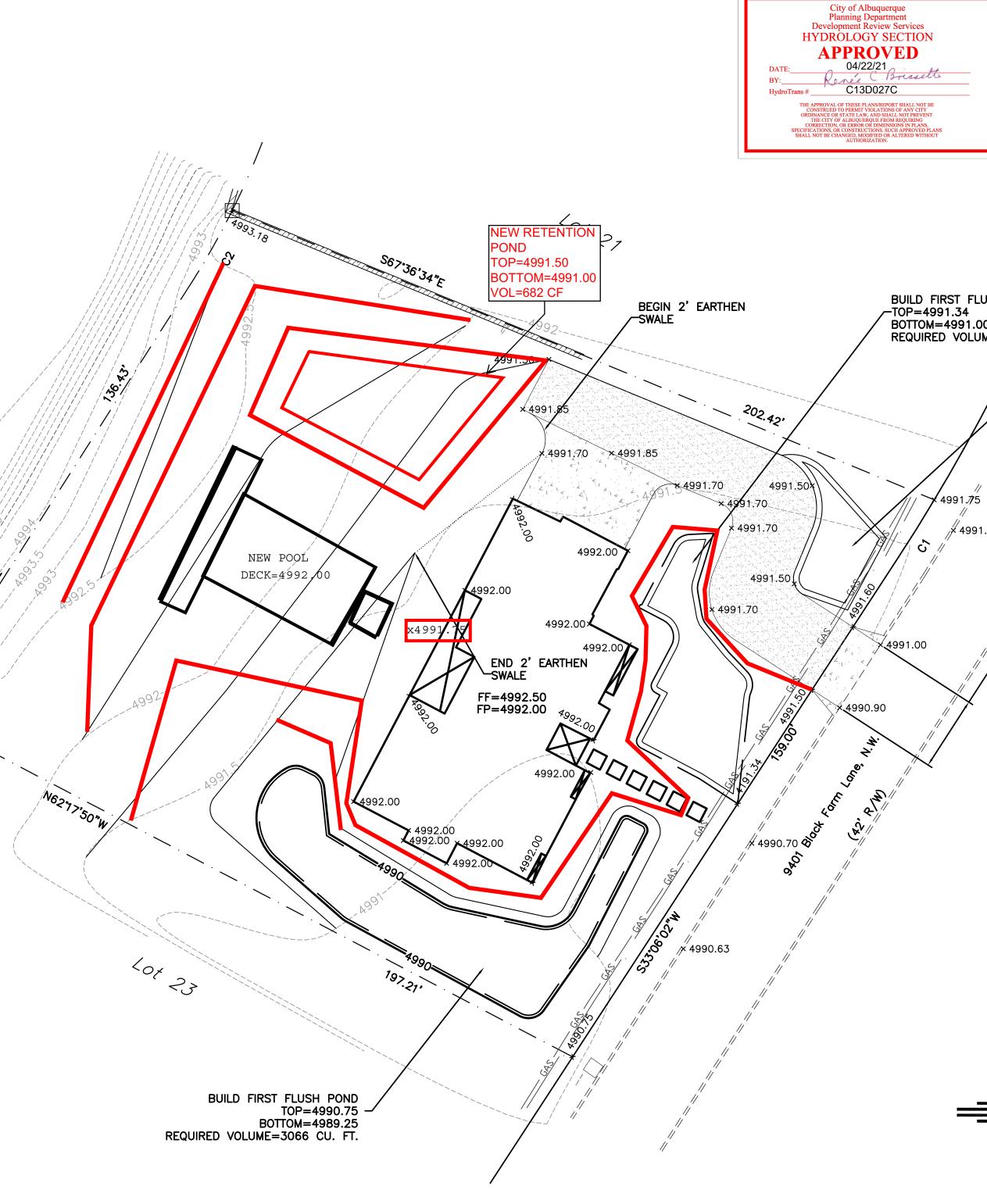


2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.

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.







BUILD FIRST FLUSH POND BOTTOM=4991.00 REQUIRED VOLUME=365 CU. FT.

> BUILD FIRST FLUSH POND -TOP=4991.50 BOTTOM=4991.00 REQUIRED VOLUME=234 CU. FT.

× 4991.25

CONSTRUCT 30' DRIVEWAY – AND SIDEWALK PER COA STD DWG #2405, 2425, 2430

NOTES:

NOTED.

FIRM MAP:

LEGAL DESCRIPTION:

LOT 22, BLACK FARM ESTATES UNIT 2

IFCEND

	LEGEND							
		- EXISTING CONTOUR						
		 EXISTING INDEX CONTOUR PROPOSED CONTOUR PROPOSED INDEX CONTOUR SLOPE TIE EXISTING SPOT ELEVATION PROPOSED SPOT ELEVATION BOUNDARY CENTERLINE RIGHT-OF-WAY 						
Z								
	~~~~							
	►							
	× XXXX							
	× XXXX							
	============	$\equiv$ EXISTING CURB AND GUTTER						
$\mathcal{N}$	PROPOSED CMU SCREEN WALL							
		COMPACTED GRAVEL DRIVE						
	ENGINEER'S SEAL	9401 BLACK FARM LN, N.W.	DRAWN BY _{WCWJ}					
	CANID SOUTH	GRADING AND	DATE 12–27–17					
1111		DRAINAGE PLAN	21811–LAYOUT–10–16–17					
<b>II</b> 20 10 0 10 20	4/14/21	Rio Grande	SHEET #					
	12/27/17	Engineering						
SCALE: 1"=20'	DAVID SOULE P.E. #14522	SUITE 201 ALBUQUERQUE, NM 87106 (505) 872–0999	JOB # 21808					

C-2 (SC)

MARKET CENTRE WE

RO-1

S

SIT

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE

2. ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.

2B/AMAFCA TRA CT

VICINITY MAP

VERFRONT

ORTE

FM35001C0116G

C - 13 - 2

C-2/SÇ

NORTE