

CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



Mayor Timothy M. Keller

November 20, 2019

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

RE: 10524 Redbud St. NW
Revised Grading and Drainage Plan
Engineer's Stamp Date: 11/12/19
Engineer's Certification Date: 11/13/19
Hydrology File: A12D030

Dear Mr. Soule:

PO Box 1293

Albuquerque

Based upon the information provided in your submittal received 11/14/19, the Revised Grading and Drainage Plan are approved for Building Permit and Building Pad Certification for 10524 Redbud St. NW. Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

NM 87103

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.

www.cabq.gov

Sincerely,

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

redbud

Weighted E Method

Basin	Area (sf)	Area (acres)	Treatment A % (acres)	Treatment B % (acres)	Treatment C % (acres)	Treatment D % (acres)	Weighted (ac-ft)	100-Year, 6-hr.		
								Volume (ac-ft)	Flow cfs	
EXISTING	9602.00	0.220	80%	0.176	20%	0.044	0%	0.000	0.486	0.009
PROPOSED TO STREE	5776.00	0.133	0%	0	19%	0.025	29%	0.0385	52%	0.069
PROPOSED TO REAR	3526.00	0.081	10%	0.008	49%	0.040	25%	0.0202	16%	0.013
total								0.935	0.006	0.21

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

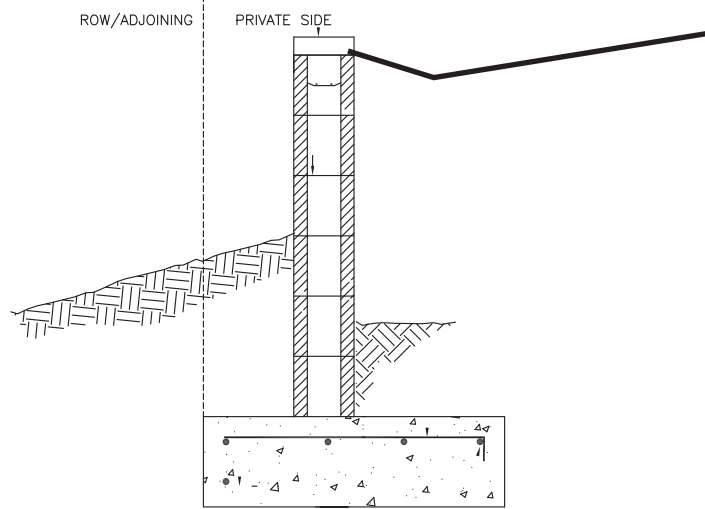
FIRST FLUSH WATER QUALITY VOLUME	REQUIRED (CF)	PROVIDED (CF)
FRONT	85	88
BACK	16	186

Narrative

This site is an infill lot within an fully developed subdivision. The existing lots all free disachrg. Due to existing graded slopes, the existing lot drc to the rear. The plan will direct the majority of the developed flow to the adjacent roadway. The developed site will pond in excess of the water quality volume generated by the site. Upland flows do not effect the site.

The site currently discharges at a peak rate of 32 cfs to the rear. The propose discharge to the rear is reduced to .21 cfs

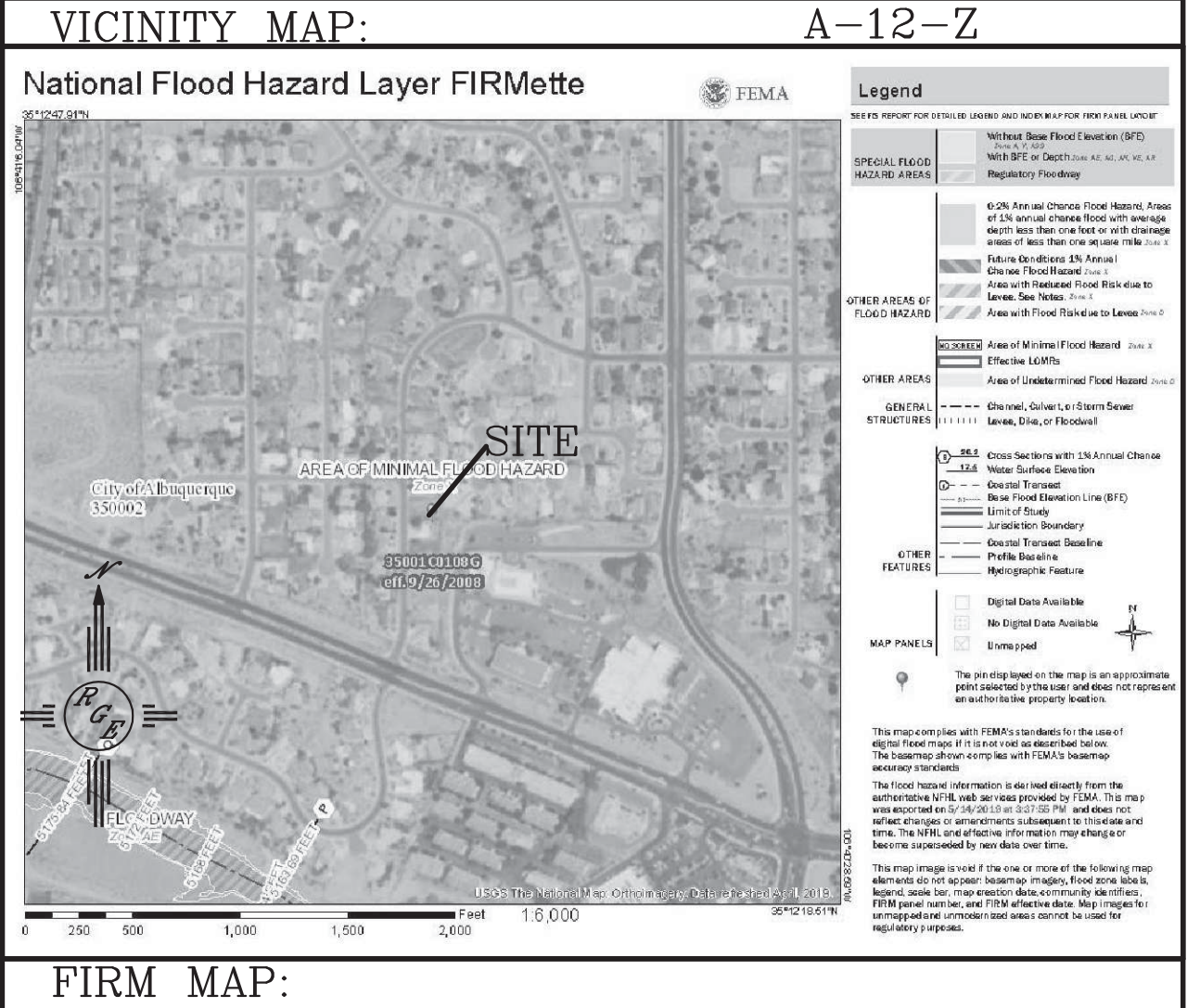
I, DAVID SOULE HAVE PERSONALLY INPECTED THE SITE. I HEREBY CERTIFY THE PAD HAS BEEN CONSTRUCTED SUCH THAT IT IS IN SUBSTANTIAL CONFORMANCE TO THE APPROVED GRADING PLAN DATED 11/12/19



WALL DETAILS AT ALL PROPERTY BOUNDARIES

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.



LEGAL DESCRIPTION:

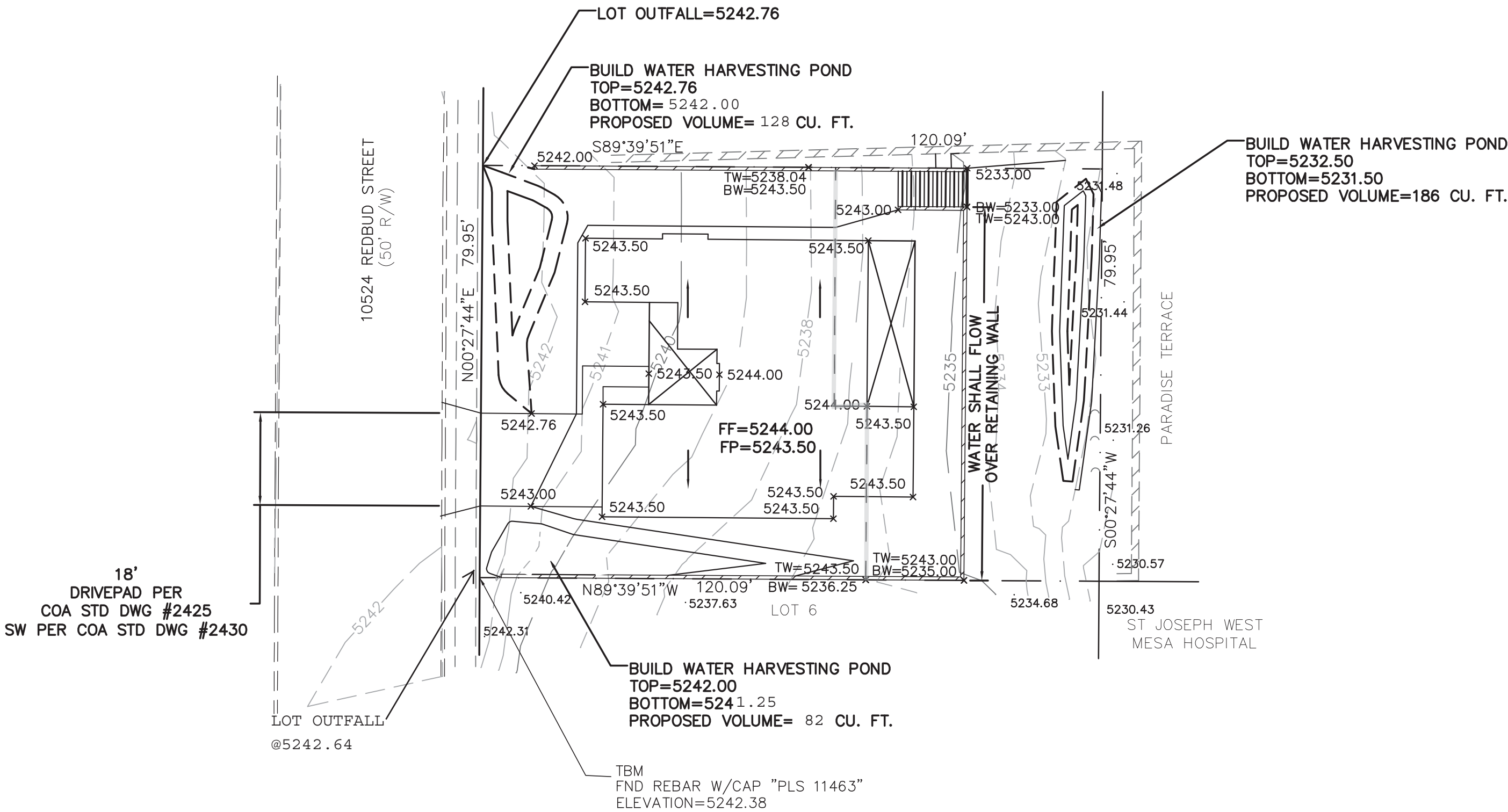
LOT 7, BLOCK 13, PARADISE HEIGHTS UNIT 1

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. ALL CURB AND GUTTER TO 6" HEADER UNLESS OTHERWISE NOTED.
3. ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.
4. ANY CURBS OR PAVEMENT NEGATIVELY IMPACTED BY CONSTRUCTION ACTIVITY SHALL BE REPLACED TO MATCH EXISTING CONDITIONS.
5. ALL SITE WORK SHALL CONFORM TO BERNAILLO COUNTY STANDARDS FOR PUBLIC WORKS CONSTRUCTION EDITION 9

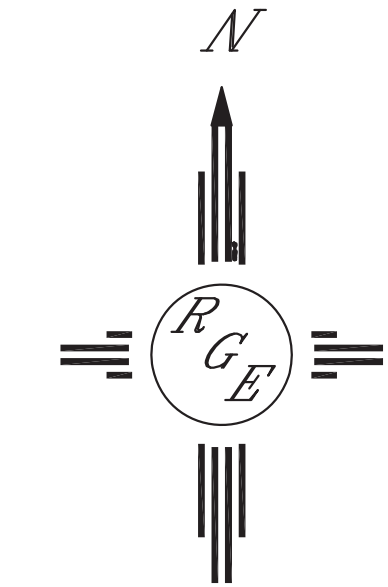
LEGEND

---	5414	---	EXISTING CONTOUR
---	5415	---	EXISTING INDEX CONTOUR
---	5414	---	PROPOSED CONTOUR
---	5415	---	PROPOSED INDEX CONTOUR
---	5415	---	SLOPE TIE
---	5415	---	EXISTING SPOT ELEVATION
---	5415	---	PROPOSED SPOT ELEVATION
---	5415	---	BOUNDARY
---	5415	---	CENTERLINE
---	5415	---	RIGHT-OF-WAY
---	5415	---	PROPOSED CURB
---	5415	---	EXISTING CURB AND GUTTER
---	5415	---	EXISTING SIDEWALK
---	5415	---	PROPOSED RETAINING WALL DESIGN BY OTHERS
---	5415	---	DRAINAGE BASIN LINE

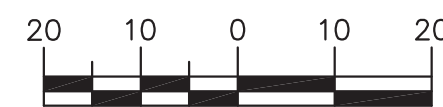


CAUTION:

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.



GRAPHIC SCALE



SCALE: 1"=60'

<div>ENGINEER'S SEAL</div> <div>DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER</div> <div>11/12/19</div> <div>DAVID SOULE P.E. #14522</div>	10524 REDBUD	DRAWN BY WCWJ
	GRADING AND DRAINAGE PLAN	DATE 5-20-19
	<div></div> <div>Rio Grande Engineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999</div>	2108042-LAYOUT-5-20-19 SHEET # JOB # 2109042