

# CITY OF ALBUQUERQUE

*Planning Department*  
David Campbell, Director



*Mayor Timothy M. Keller*

June 7, 2019

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

**RE: 10524 Redbud St. NW**  
**Grading & Drainage Plan**  
**Engineer's Stamp Date: 05/22/19**  
**Hydrology File: Q16DA5000**

Dear Mr. Soule:

PO Box 1293

Based upon the information provided in your submittal received 05/23/2019, the Grading & Drainage Plan is approved for Building Permit and Grading Permit.

Albuquerque

Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter. Prior to approval in support of Permanent Release of Occupancy by Hydrology, Engineer Certification per the DPM checklist will be required.

NM 87103

If you have any questions, please contact me at 924-3995 or [rbrissette@cabq.gov](mailto:rbrissette@cabq.gov).

[www.cabq.gov](http://www.cabq.gov)

Sincerely,

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



Weighted E Method											
								100-Year, 6-hr.			
Basin	Area (sf)	Area (acres)	Treatment A % (acres)	Treatment B % (acres)	Treatment C % (acres)	Treatment D % (acres)	Weighted (ac-ft)	Volume (ac-ft)	Flow cfs		
EXISTING	9602.00	0.220	80%	0.176	20%	0.044	0%	0.000	0.486	0.009	0.32
PROPOSED TO STREE	5776.00	0.133	0%	0	19%	0.025	29%	0.0385	52%	0.069	1.439
PROPOSED TO REAR	3526.00	0.081	10%	0.008	49%	0.040	25%	0.0202	16%	0.013	0.935
total										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

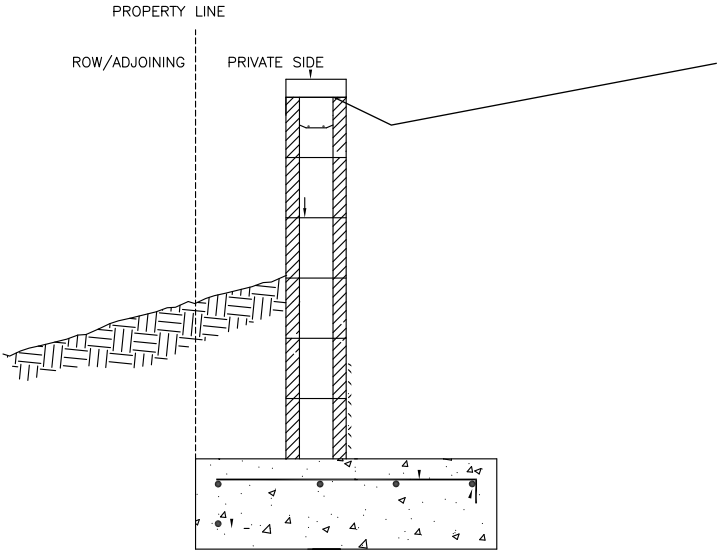
FIRST FLUSH WATER QUALITY VOLUME  
REQUIRED (CF)

PROVIDED (CF)

WATER QUALITY	85	88
FRONT	16	186
BACK		
Narrative		

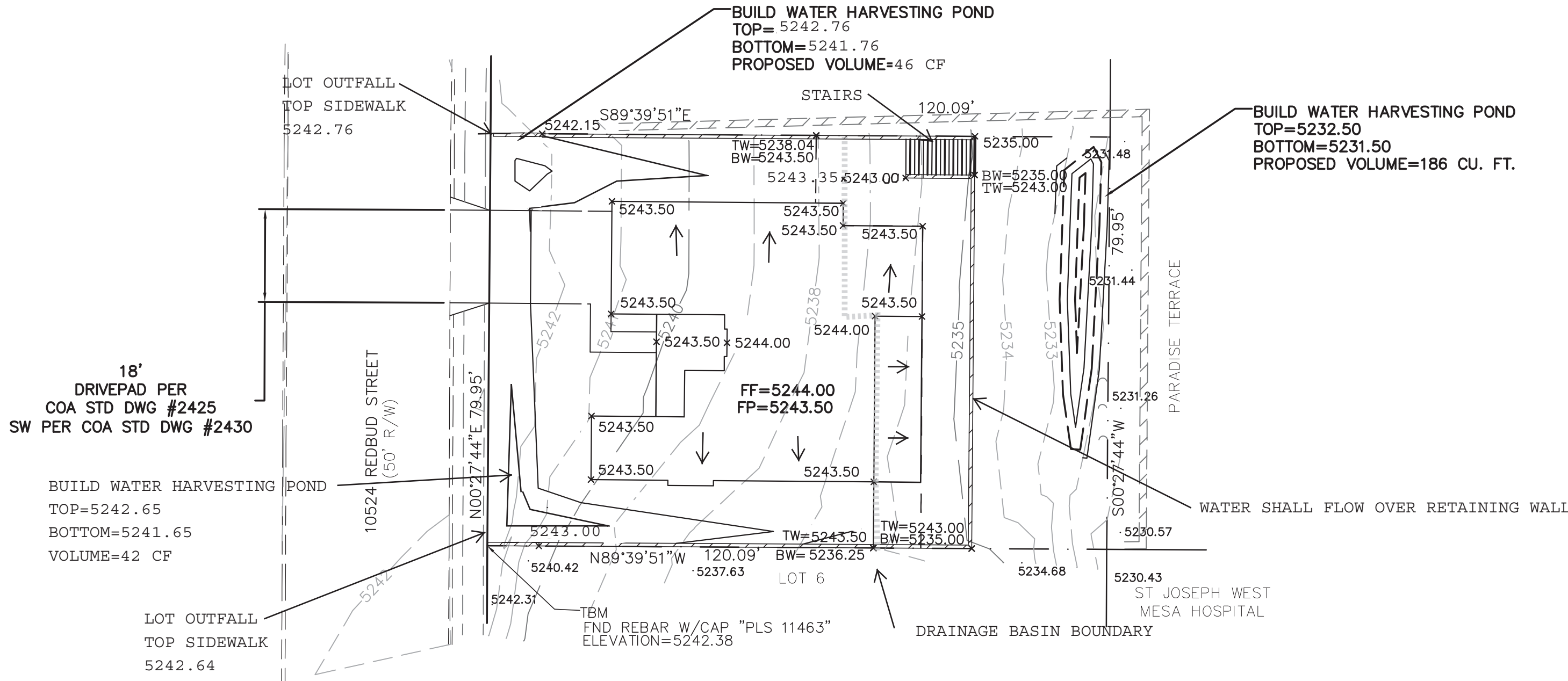
This site is an infill lot within an fully developed subdivision. The existing lots all free discahrge. Due to existing graded slopes, the existing lot dr to the rear. The plan will direct the majority of the developed flow to the adjacent roadway. The developed site will pond in excess of the water 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



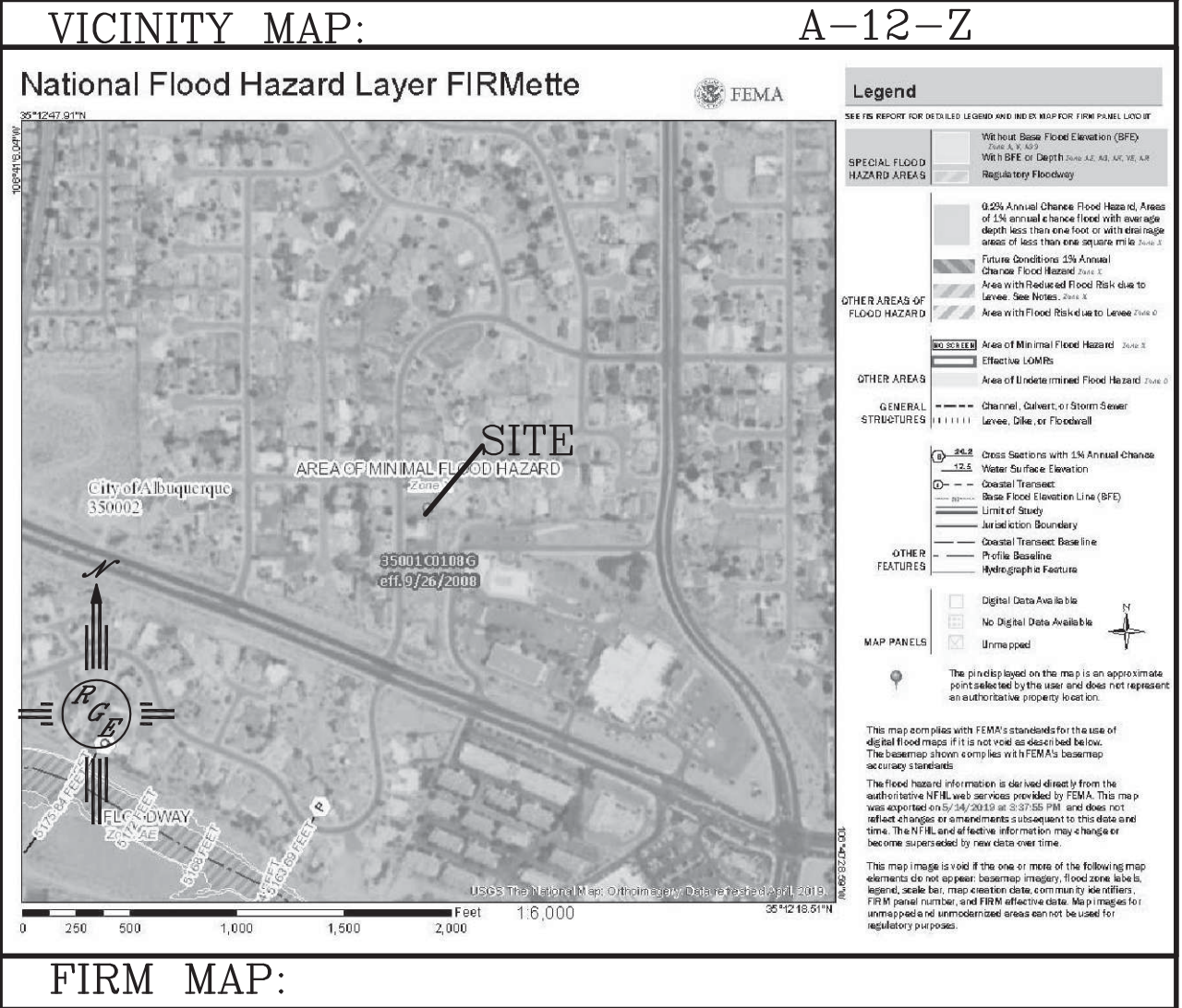
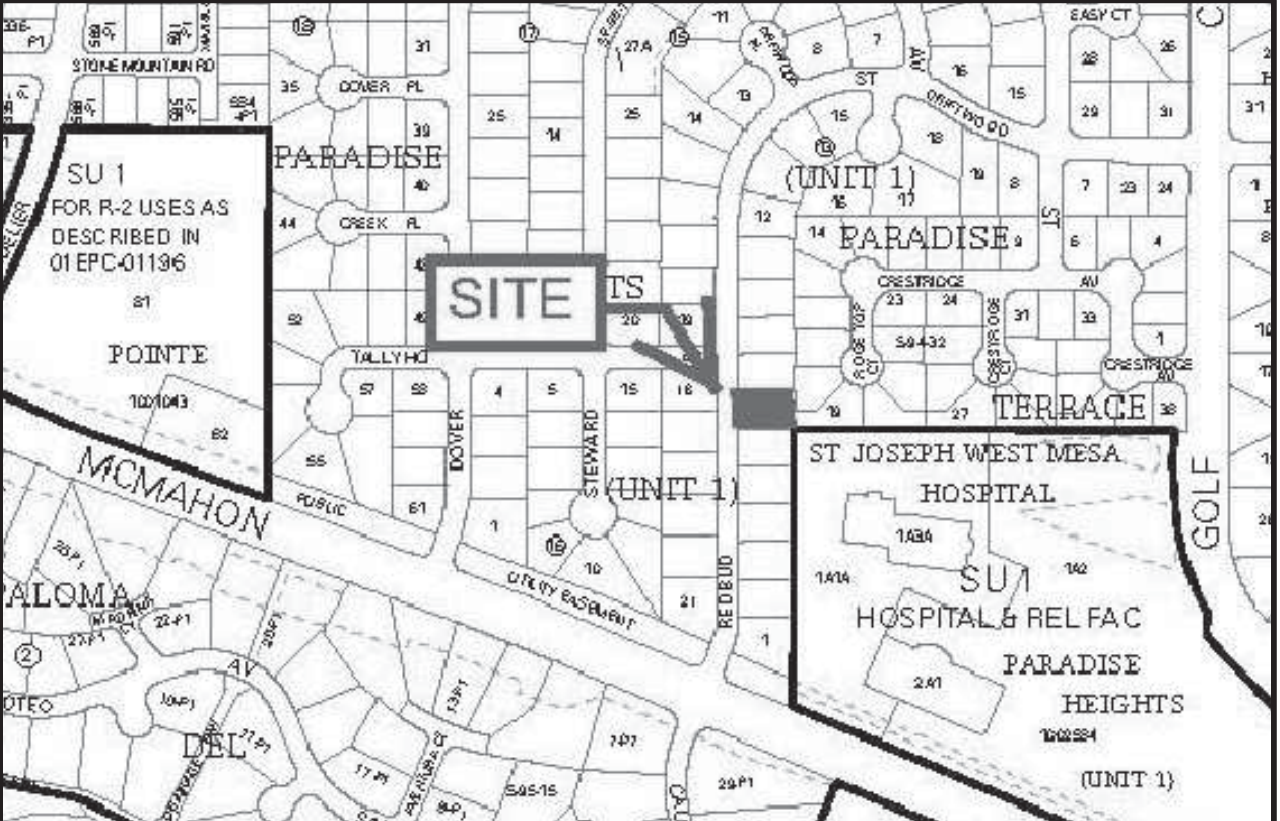
WALL SHALL BE CONSTRUCTED SUCH THAT NO PORTION OF WALL OR FOOTING SHALL ENCRACH EXISTING GRADES SHALL BE MAINTAINED WITHIN RIGHT OF WAYS and adjacent properties

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:

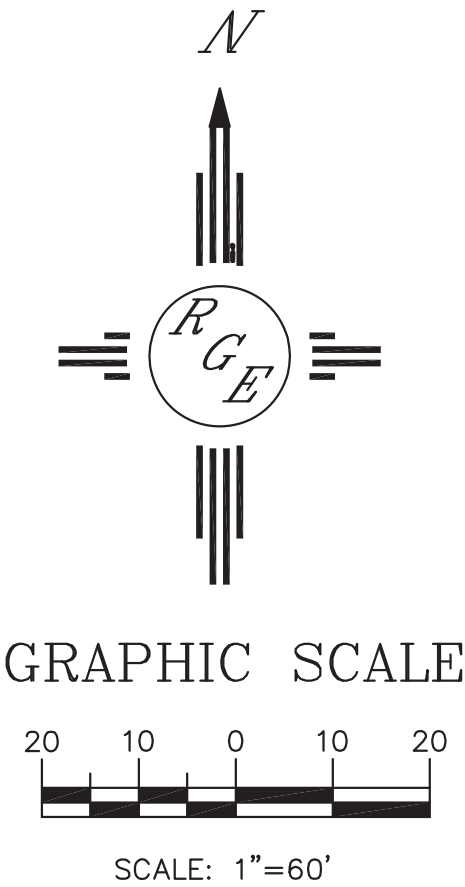
LOT 7, BLOCK 13, PARADISE HEIGHTS UNIT 1

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 BERNALILLO COUNTY STANDARDS FOR PUBLIC WORKS CONSTRUCTION EDITION 9


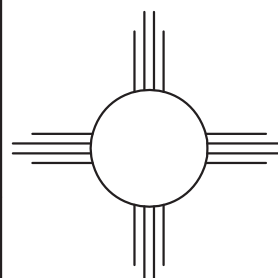
LEGEND

---	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.

ENGINEER'S SEAL  5/22/19	10524 REDBUD	DRAWN BY WCWJ
	GRADING AND DRAINAGE PLAN	DATE 5-20-19
 Rio Grande Engineering 1806 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999		2109042-LAYOUT-5-20-19
		SHEET #
DAVID SOULE P.E. #14522		JOB # 2109042