



# City of Albuquerque

Planning Department  
Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: 4548 arrowhead Building Permit #: \_\_\_\_\_ Hydrology File #: \_\_\_\_\_

DRB#: \_\_\_\_\_ EPC#: \_\_\_\_\_ Work Order#: \_\_\_\_\_

Legal Description: LOT 12 Block 25 Unit 2 Knolls of paradise hills

City Address: 4548 arrowhead

Applicant: \_\_\_\_\_ Contact: \_\_\_\_\_

Address: \_\_\_\_\_

Phone#: \_\_\_\_\_ Fax#: \_\_\_\_\_ E-mail: \_\_\_\_\_

Other Contact: RIO GRANDE ENGINEERING Contact: DAVID SOULE

Address: PO BOX 93924 ALB NM 87199

Phone#: 505.321.9099 Fax#: 505.872.0999 E-mail: david@riograndeengineering.com

TYPE OF DEVELOPMENT: \_\_\_\_\_ PLAT ☒ RESIDENCE \_\_\_\_\_ DRB SITE \_\_\_\_\_ ADMIN SITE

Check all that Apply:

### DEPARTMENT:

☒ HYDROLOGY/ DRAINAGE  
☐ TRAFFIC/ TRANSPORTATION

### TYPE OF SUBMITTAL:

☐ ENGINEER/ARCHITECT CERTIFICATION  
☐ PAD CERTIFICATION  
☐ CONCEPTUAL G & D PLAN  
☒ GRADING PLAN  
☐ DRAINAGE REPORT  
☐ DRAINAGE MASTER PLAN  
☐ FLOODPLAIN DEVELOPMENT PERMIT APPLIC  
☐ ELEVATION CERTIFICATE  
☐ CLOMR/LOMR  
☐ TRAFFIC CIRCULATION LAYOUT (TCL)  
☐ TRAFFIC IMPACT STUDY (TIS)  
☐ STREET LIGHT LAYOUT  
☐ OTHER (SPECIFY) \_\_\_\_\_  
☐ PRE-DESIGN MEETING?

IS THIS A RESUBMITTAL?: \_\_\_\_\_ Yes ☒ No

### 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  
☐ FLOODPLAIN DEVELOPMENT PERMIT  
☐ OTHER (SPECIFY) \_\_\_\_\_

DATE SUBMITTED: \_\_\_\_\_ By: \_\_\_\_\_

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: \_\_\_\_\_

FEE PAID: \_\_\_\_\_

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			
ALLOWED	6938.00	0.159	0%	0	10% 0.016	40% 0.0637	50% 0.080	1.448	0.019	0.56		
PROPOSED	6938.00	0.159	0%	0	10% 0.016	37% 0.0589	53% 0.084	1.477	0.020	0.57		

**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

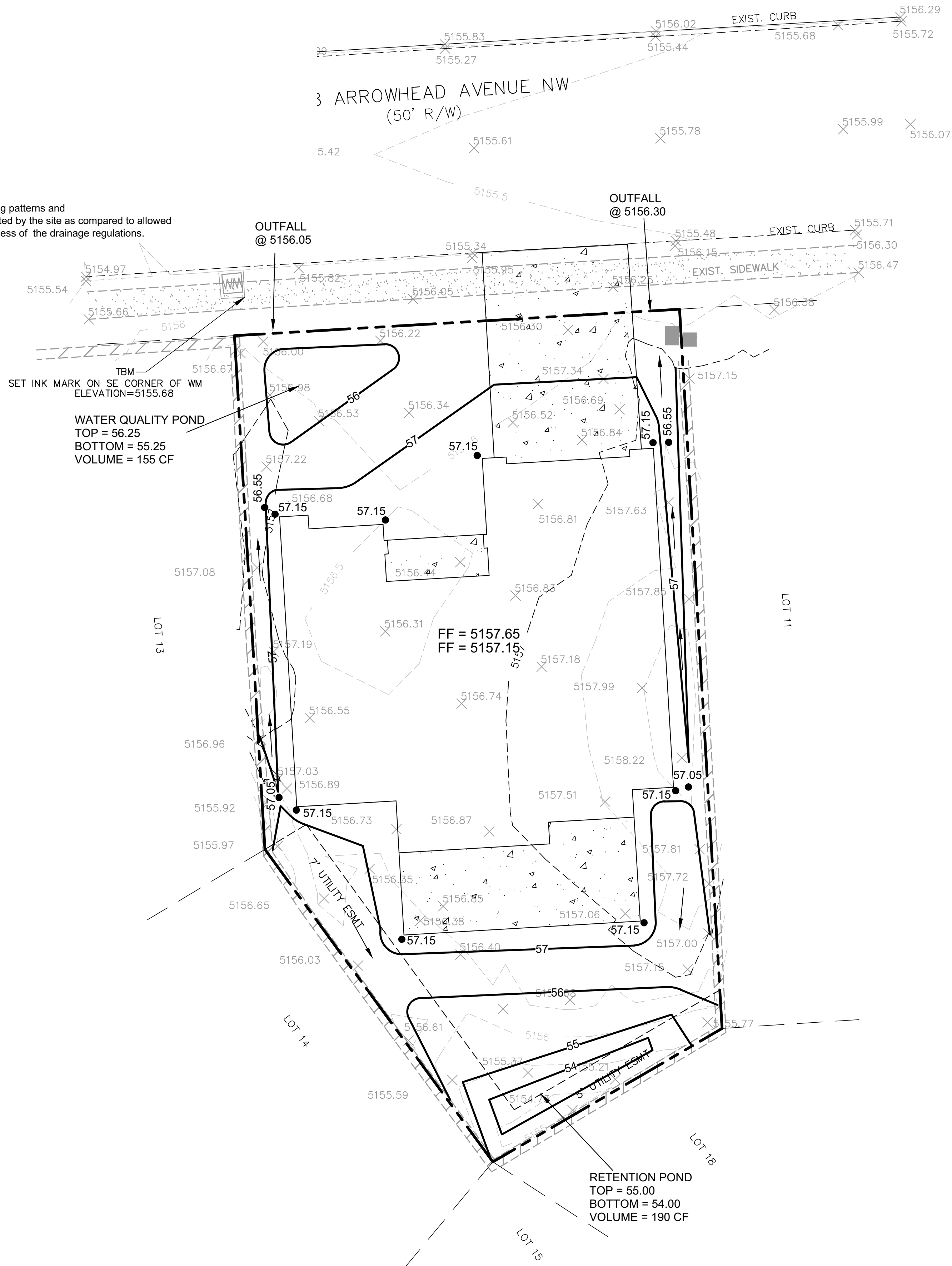
Qa= 1.29  
Qb= 2.03  
Qc= 2.87  
Qd= 4.37

**ONSITE Conditions**

FIRST FLUSH WATER QUALITY VOLUME	REQUIRED (CF)	PROVIDED
WATER QUALITY	0	345
Flood control	17	345

**Narrative**

This site is within the SAD 222 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the the street per the master drainage plan. We are ponding the excess volume generated by the site as compared to allowed there is and existing wall on the upland side. This plan has a shallow water harvest pond in excess of the drainage regulations.



**CAUTION:**

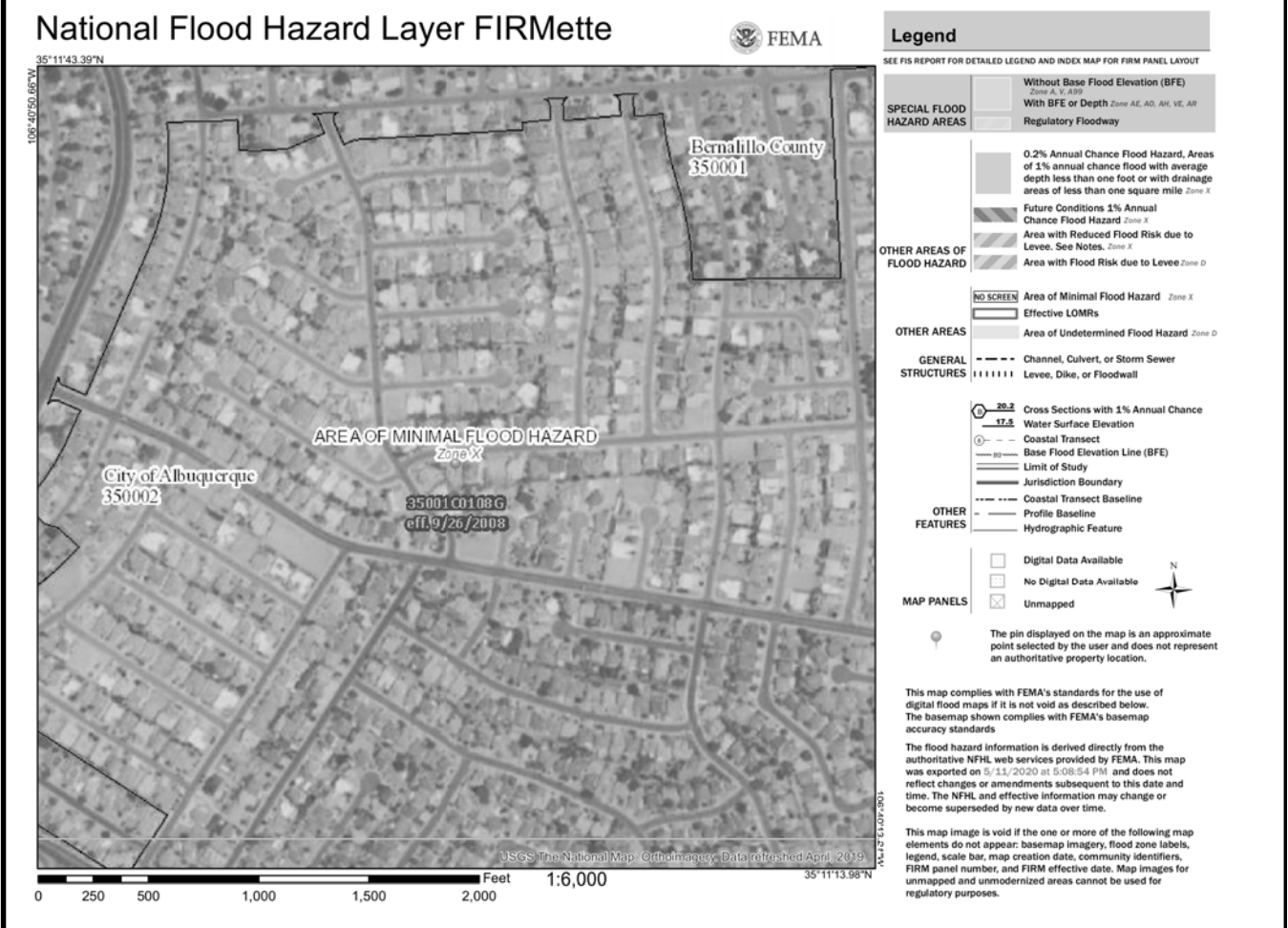
EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.

**EROSION CONTROL NOTES:**

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.



**VICINITY MAP: B-12-Z**



**FIRM MAP:**

**LEGAL DESCRIPTION:**

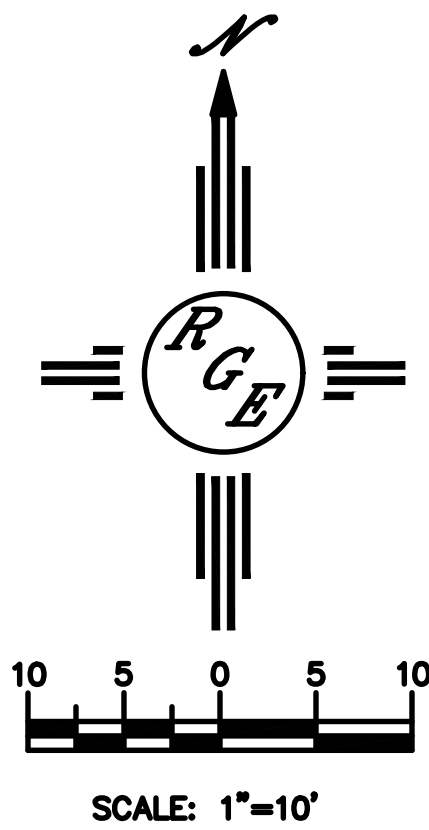
LOT 12 BLOCK 25 UNIT 2 THE KNOLLS OF PARADISE HILLS  
CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO


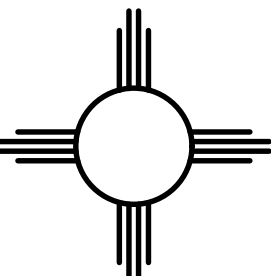
**NOTES:**

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.
3. ANY PERIMETER WALLS MUST BE PERMITTED SEPARATELY. ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.
4. SURVEY INFORMATION PROVIDED BY COMMUNITY SCIENCES CORPORATION USING NAVD DATUM 1988.
5. A PAD ELEVATION CERTIFICATION SHALL BE REQUIRED PRIOR TO RELEASE OF BUILDING PERMIT.

**LEGEND**

- XXXX--- EXISTING CONTOUR
- - - - - EXISTING INDEX CONTOUR
- XXXX--- PROPOSED CONTOUR
- XXXX--- PROPOSED INDEX CONTOUR
- + XXXXX EXISTING SPOT ELEVATION
- XXXX PROPOSED SPOT ELEVATION
- BOUNDARY
- PROPOSED FLOW
- ADJACENT BOUNDARY
- ===== EXISTING CURB AND GUTTER
- ===== PROPOSED CONCRETE DRIVEWAY



<div>ENGINEER'S SEAL</div> <div></div> <div>5/13/20</div> <div>DAVID SOULE P.E. #14522</div>	<div>LOT12 BLE25 UN2 THE KNOLLS OF PARADISE HILLS 4548 ARROWHEAD AVE.</div> <div>GRADING AND DRAINAGE PLAN</div> <div><div><i>Rio Grande Engineering</i> 1608 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0899</div></div>	<div>DRAWN BY</div> <div>DEM</div>
		<div>DATE</div> <div>5-13-20</div>
		<div>LOT 12 BLK 25 UN 2 THE KNOLLS OF PARADISE HILLS</div>
		<div>SHEET #</div> <div>C1</div>
		<div>JOB #</div> <div></div>