

# CITY OF ALBUQUERQUE

Planning Department  
Brennon Williams, Director



Mayor Timothy M. Keller

July 7, 2021

Don Briggs, P.E.  
Don Briggs Engineering LLC  
5324 Oakledge Ct. NW  
Albuquerque, New Mexico 87120

RE: **Lot 11 Block 9, Volcano Cliffs Unit 22, SAD 228**  
**6405 Petirrojo Rd. NW**  
**2<sup>nd</sup> Revised Grading and Drainage Plan**  
**Engineers Stamp Date 6/30/2021 (D10D003Q11)**

Mr. Briggs,

Based upon the information provided in your submittal received 6/30/2021, this plan is approved for Grading Permit.

PO Box 1293

**Prior to Building permit approval a Pad Certification will be required, provided by the Engineer or a registered Land Surveyor.**

Albuquerque

Please inform the builder/owner to attach a copy of this approved plan and letter to the construction sets in the permitting process prior to sign-off by Hydrology.

NM 87103

Reiterate to the Owner/Contractor that a separate permit for a garden/retaining wall must be obtained with the approved G&D plan and Pad Certification.

www.cabq.gov

**Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist is required.**

If you have any questions, please contact me at 924-3999 or Rudy Rael at 924-3977.

Sincerely,

Ernest Armijo, P.E.  
Principal Engineer, Planning Dept.  
Development Review Services



# City of Albuquerque

Planning Department

Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

**Project Title:** \_\_\_\_\_ **Building Permit #:** \_\_\_\_\_ **Hydrology File #:** \_\_\_\_\_

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

**Legal Description:** \_\_\_\_\_

**City Address:** \_\_\_\_\_

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

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

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

**Owner:** \_\_\_\_\_ **Contact:** \_\_\_\_\_

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

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

**TYPE OF SUBMITTAL:** \_\_\_\_\_ PLAT (\_\_\_\_# OF LOTS) \_\_\_\_\_ RESIDENCE \_\_\_\_\_ DRB SITE \_\_\_\_\_ ADMIN SITE

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

**DEPARTMENT:** \_\_\_\_\_ TRAFFIC/ TRANSPORTATION \_\_\_\_\_ HYDROLOGY/ DRAINAGE

Check all that Apply:

### TYPE OF SUBMITTAL:

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

### 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: \_\_\_\_\_



This grading & drainage plan was prepared to support a building permit application for a new residence located at 6405 Petirrojo Rd. NW. A review of the City Hydrology records indicate development of this property is governed by the Drainage Report for SAD 228. This report indicates allowable land treatment values of 0% A, 10% B, 40% C, and 50% D. If developed discharge rates exceed what is allowable using these land treatment values, mitigation measures will be required. This plan was prepared using the hydrology methodology presented in Chapter 22.2 of the City of Albuquerque's Development Process Manual (abbreviated method).

The site is a 0.34 acre parcel located in Precipitation Zone 1 and Floodzone X (Unshaded). It slopes from the north west to the south east at about 4.6%. The site is impacted by cross lot runoff from adjacent properties and ponds that water onsite. This plan is designed to meet the drainage requirements indicated in the SAD 228 report.

The hydrology analysis indicates the developed conditions will not increase discharge rates over what is allowed so mitigation measures are not required. However, a water quality pond is provided to meet EPA requirements. All onsite flows are directed to the front yard landscaping then to the street.

1. Pad Certification was provided for previous design on 7/27/20
2. A final inspection by Hydrology is required before a Certificate of Occupancy is released.
3. Provide openings in CMU wall 3" above ground to allow cross lot drainage.

Contractor is responsible for utility spots and controlling sediment deposition and erosion during construction.

A concrete washout bin must be provided as per City of Albuquerque MS4 Permit requirements.

All disturbed area due to construction must be reseeded or landscaped following construction.

6405 Petirrojo Rd. NW

100 yr 6 hr Storm

Allowable - S

| Treatment | Percent | Area (ac.) | Preci |
|-----------|---------|------------|-------|
|-----------|---------|------------|-------|

| Proposed       |                | 0.34 ac.    |                            | 14810.4 sq ft                 |                         | Determined by DB     |                       |
|----------------|----------------|-------------|----------------------------|-------------------------------|-------------------------|----------------------|-----------------------|
| Land Treatment | Percent        | Area (ac.)  | Excess Precipitation (in.) | Unit Peak Discharge (cfs/ac.) | Runoff Volume (ac. Ft.) | Peak Discharge (cfs) | Comments              |
| A              | 0.00%          | 0.00        | 0.44                       | 1.29                          | 0.00                    | 0.00                 | Natural Grounded/Pond |
| B              | 8.10%          | 0.03        | 0.67                       | 2.03                          | 0.00                    | 0.00                 | Landscaped Areas      |
| C              | <b>50.80%</b>  | 0.17        | 0.99                       | 2.87                          | 0.01                    | 0.50                 | Compacted earth       |
| D              | <b>41.10%</b>  | 0.14        | 1.97                       | 4.37                          | 0.02                    | 0.61                 | Impervious Areas      |
| <b>TOTAL</b>   | <b>100.00%</b> | <b>0.34</b> | <b>1.37</b>                |                               | <b>0.04</b>             | <b>1.16</b>          |                       |
|                |                |             |                            |                               | <b>1656.91</b>          | <b>cu ft</b>         |                       |

Water Quality Retention Volume = 0.34" x 6086.38 sq ft = 172.45 cu ft

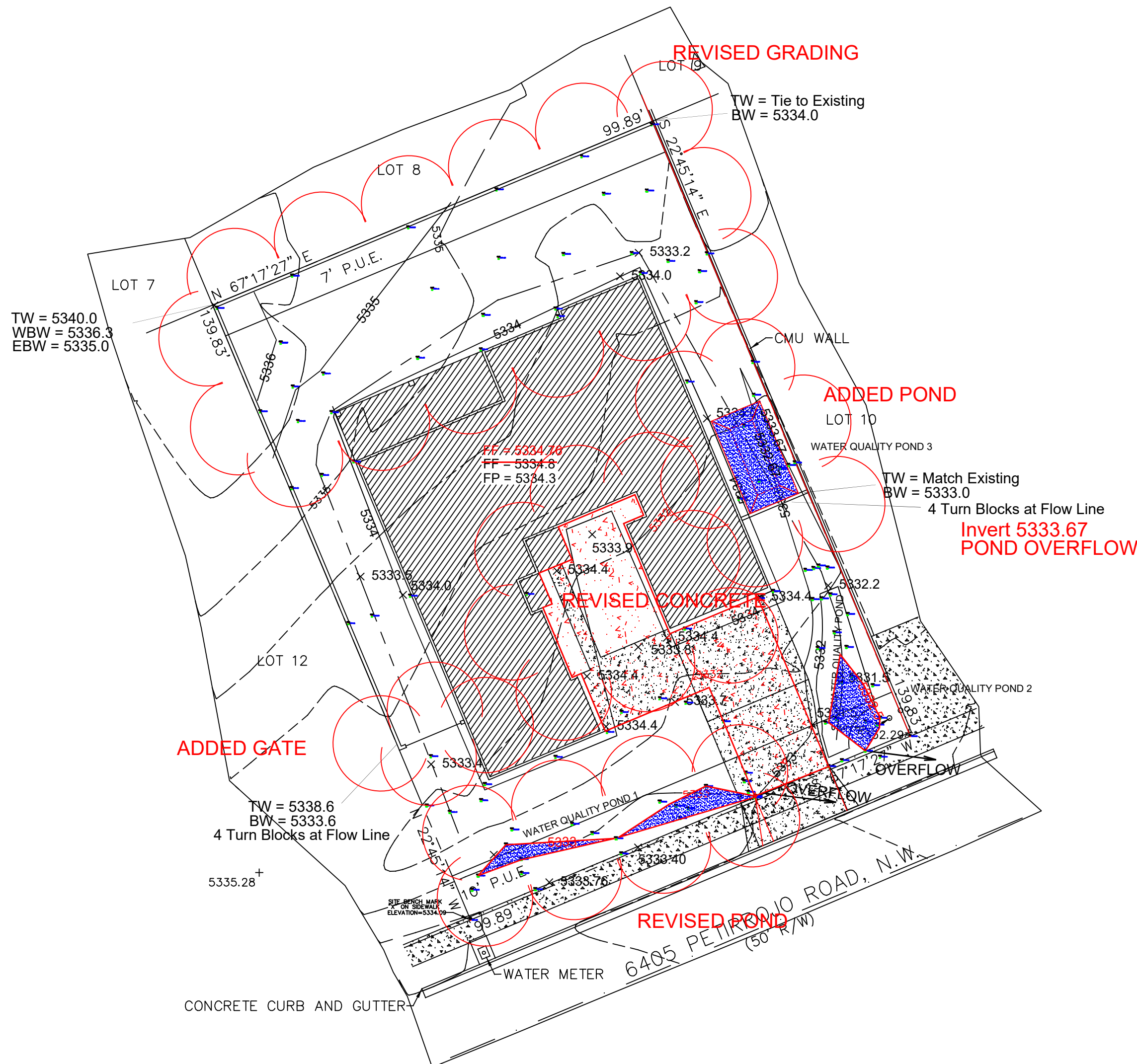
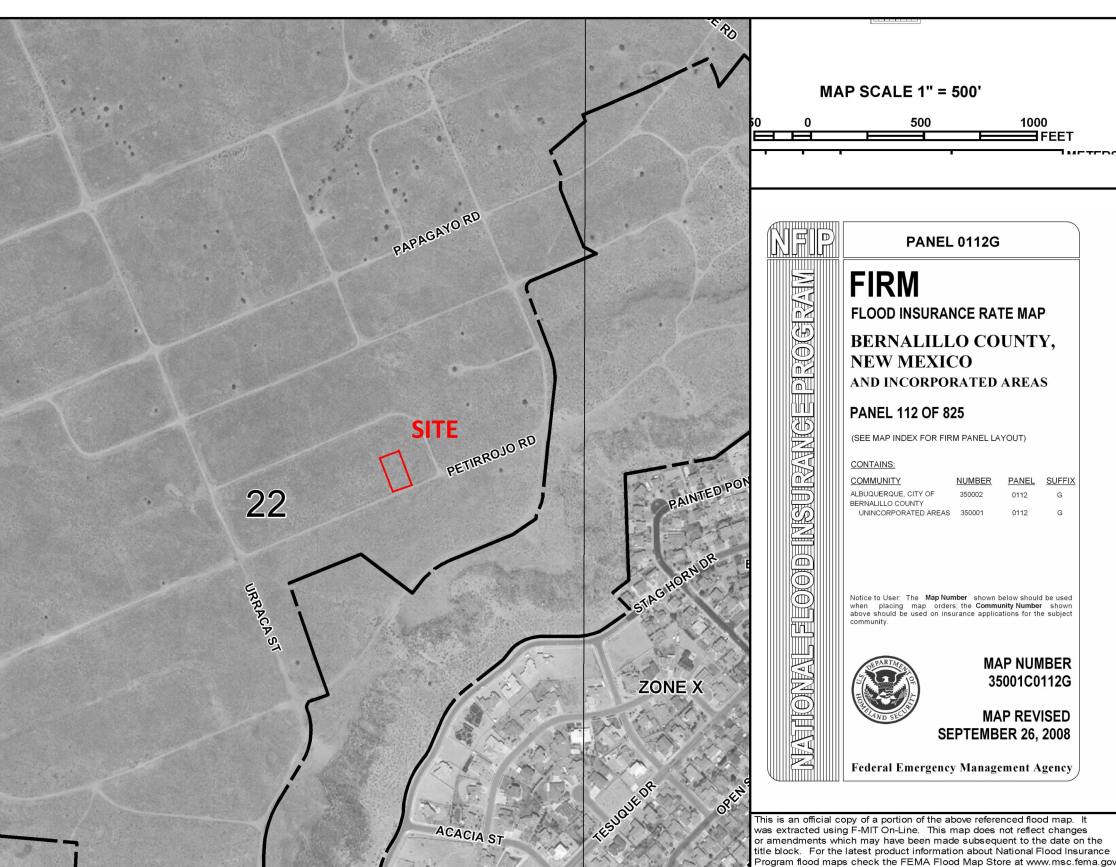
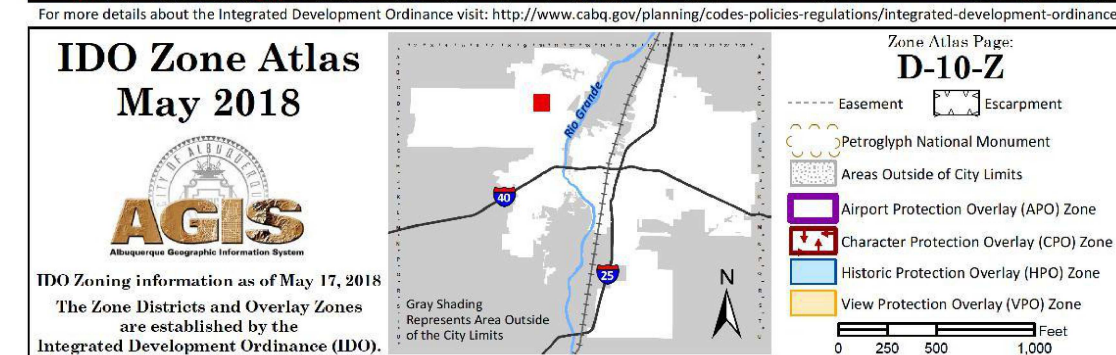
Water Quality Retention Volume = 0.34" x 6086.38 sq ft = 172.45 cu ft

Water Quality Retention Volume Provided = 198.11 cu ft

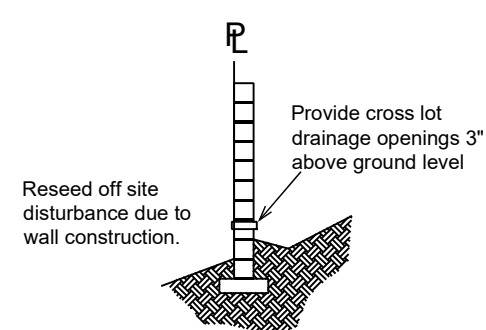
### POND 1

| POND 2           |         |          |       |         |                   |          |
|------------------|---------|----------|-------|---------|-------------------|----------|
| ELEVATION        | AREA    | AVE AREA | DEPTH | VOLUME  | CUMULATIVE VOLUME | COMMENTS |
| (ft)             | (sq ft) | (sq ft)  | (ft)  | (cu ft) | (cu ft)           |          |
| 5331.50          | 0.00    |          |       |         |                   |          |
|                  |         | 0.00     | 0.51  | 0.00    | 0.00              |          |
| 5332.01          | 0.00    |          |       |         |                   |          |
|                  |         | 60.28    | 0.49  | 29.54   | 29.54             |          |
| 5332.50          | 120.57  |          |       |         |                   |          |
|                  |         |          |       |         |                   |          |
| PONDING PROVIDED |         |          |       |         | 29.54             |          |

| POND 3           |         |          |       |         |                   |          |
|------------------|---------|----------|-------|---------|-------------------|----------|
| ELEVATION        | AREA    | AVE AREA | DEPTH | VOLUME  | CUMULATIVE VOLUME | COMMENTS |
| (ft)             | (sq ft) | (sq ft)  | (ft)  | (cu ft) | (cu ft)           |          |
| 5332.67          | 75.00   |          |       |         |                   |          |
|                  |         | 153.00   | 1.00  | 153.00  | 153.00            |          |
| 5333.67          | 231.00  |          |       |         |                   |          |
|                  |         | 115.50   | 0.00  | 0.00    | 153.00            |          |
| 5333.67          | 0.00    |          |       |         |                   |          |
|                  |         |          |       |         |                   |          |
| PONDING PROVIDED |         |          |       |         | 153.00            |          |



NATURAL GROUND CONTOUR  
INTERVAL = 1.0'



SCALE 1" = 20'

| NO.              |  | DATE    | REMARKS                          | BY       | ENGINEER'S SEAL | SURVEY INFORMATION |         | BENCHMARKS | AS BUILT INFORMATION |  |
|------------------|--|---------|----------------------------------|----------|-----------------|--------------------|---------|------------|----------------------|--|
| 1.               |  | 9/11/20 | REVISED FLOORPLAN                | DB       |                 | NO.                | BY DATE |            |                      |  |
| 2.               |  | 6/30/21 | REVISED GRADING/CONCRETE/PONDING | DB       |                 |                    |         |            |                      |  |
|                  |  |         |                                  |          |                 |                    |         |            |                      |  |
|                  |  |         |                                  |          |                 |                    |         |            |                      |  |
|                  |  |         |                                  |          |                 |                    |         |            |                      |  |
|                  |  |         |                                  |          |                 |                    |         |            |                      |  |
|                  |  |         |                                  |          |                 |                    |         |            |                      |  |
| <i>REVISIONS</i> |  |         |                                  |          |                 |                    |         |            |                      |  |
| <i>DESIGN</i>    |  |         |                                  |          |                 |                    |         |            |                      |  |
| DESIGNED BY      |  | DB      | DATE                             | 9/5/2019 |                 |                    |         |            |                      |  |
| DRAWN BY         |  | DB      | DATE                             | 9/5/2019 |                 |                    |         |            |                      |  |
| CHECKED BY       |  |         | DATE                             |          |                 |                    |         |            |                      |  |

|   |  |  |
|---|--|--|
|  | <h1 style="margin: 0;">DON BRIGGS</h1> <h2 style="margin: 0;">Engineering LLC</h2> | <p>505-249-4843<br/> donbriggsengineering@gmail.com<br/> 5324 Oakledge Ct. NW, Albuquerque, NM 87120</p> |
|---|--|--|

|        |  |
|--------|--|
| TITLE: | <h1 style="margin: 0;">6405 Pettirrojo Rd. NW</h1> <h2 style="margin: 0;">Grading &amp; Drainage Plan</h2> |
|--------|--|

| Design Review Committee | City Engineer Approval | Last | Design Update | Mo. / Day / Yr. | Mo. / Day / Yr. |
|-------------------------|------------------------|------|---------------|-----------------|-----------------|
|                         |                        |      |               |                 |                 |
|                         |                        |      |               |                 |                 |
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|                         |                        |      |               |                 |                 |

|                                |              |       |    |
|--------------------------------|--------------|-------|----|
| City Project No.<br>D10D003Q11 | Zone Map No. | Sheet | Of |
|--------------------------------|--------------|-------|----|