# CITY OF ALBUQUERQUE

*Planning Department*
Suzanne Lubar, Director

*Mayor Richard J. Berry*

September 7, 2016

David Soule, P.E.
Rio Grande Engineering
PO Box 93924
Albuquerque, New Mexico 87199

RE: **Valero Residence**
**Lot 4 Block 5 Unit 22 SAD 228**
**6308 Papagayo NW**
**Grading and Drainage Plan**
**Engineers Stamp Date 8/9/16 (D10D003V4)**

Dear Mr. Soule,

Based upon the information provided in your submittal received 8/12/16, this plan is approved for Grading Permit and Building Permit.

Please inform the builder to attach a copy of this approved plan to the construction sets in the permitting process prior to sign-off by Hydrology. Also, notify the owner/contractor that a separate permit for the fence is required.

Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist of this plan will be required.

If you have any questions, please contact me at 924-3986 or Rudy Rael at 924-3977.

Sincerely,

Abiel Carrillo, P.E.
Principal Engineer, Hydrology
Planning Department

RR/AC
C: File

PO Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

# City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

**Project Title:** 6308 Papagayo Building Permit #: _____ City Drainage #: _____

DRB#: _____ EPC#: _____ Work Order#: _____

Legal Description: lot 4 block 5 volcano cliffs UNIT 22

City Address: 6308 PAPAGAYO NW

**Engineering Firm:** RIO GRANDE ENGINEERING Contact: DAVID SOULE

Address: PO BOX 93924, ALBUQUERQUE, NM 87199

Phone#: 505.321.9099 Fax#: 505.872.0999 E-mail: DAVID@RIOGRANDEENGINEERING.COM

**Owner:** VALERO Contact: _____

Address: 6308 PAPAGAYO NW 87120

Phone#: _____ Fax#: _____ E-mail: _____

**Architect:** none Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

**Other Contact:** _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Check all that Apply:

**DEPARTMENT:**

X HYDROLOGY/ DRAINAGE

_____ TRAFFIC/ TRANSPORTATION

_____ MS4/ EROSION & SEDIMENT CONTROL

**TYPE OF SUBMITTAL:**

_____ ENGINEER/ ARCHITECT CERTIFICATION

_____ CONCEPTUAL G & D PLAN

X GRADING PLAN

_____ DRAINAGE MASTER PLAN

_____ DRAINAGE REPORT

_____ CLOMR/LOMR

_____ TRAFFIC CIRCULATION LAYOUT (TCL)

_____ TRAFFIC IMPACT STUDY (TIS)

_____ EROSION & SEDIMENT CONTROL PLAN (ESC)

_____ OTHER (SPECIFY) _____

**CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:**

X 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

_____ PRE-DESIGN MEETING

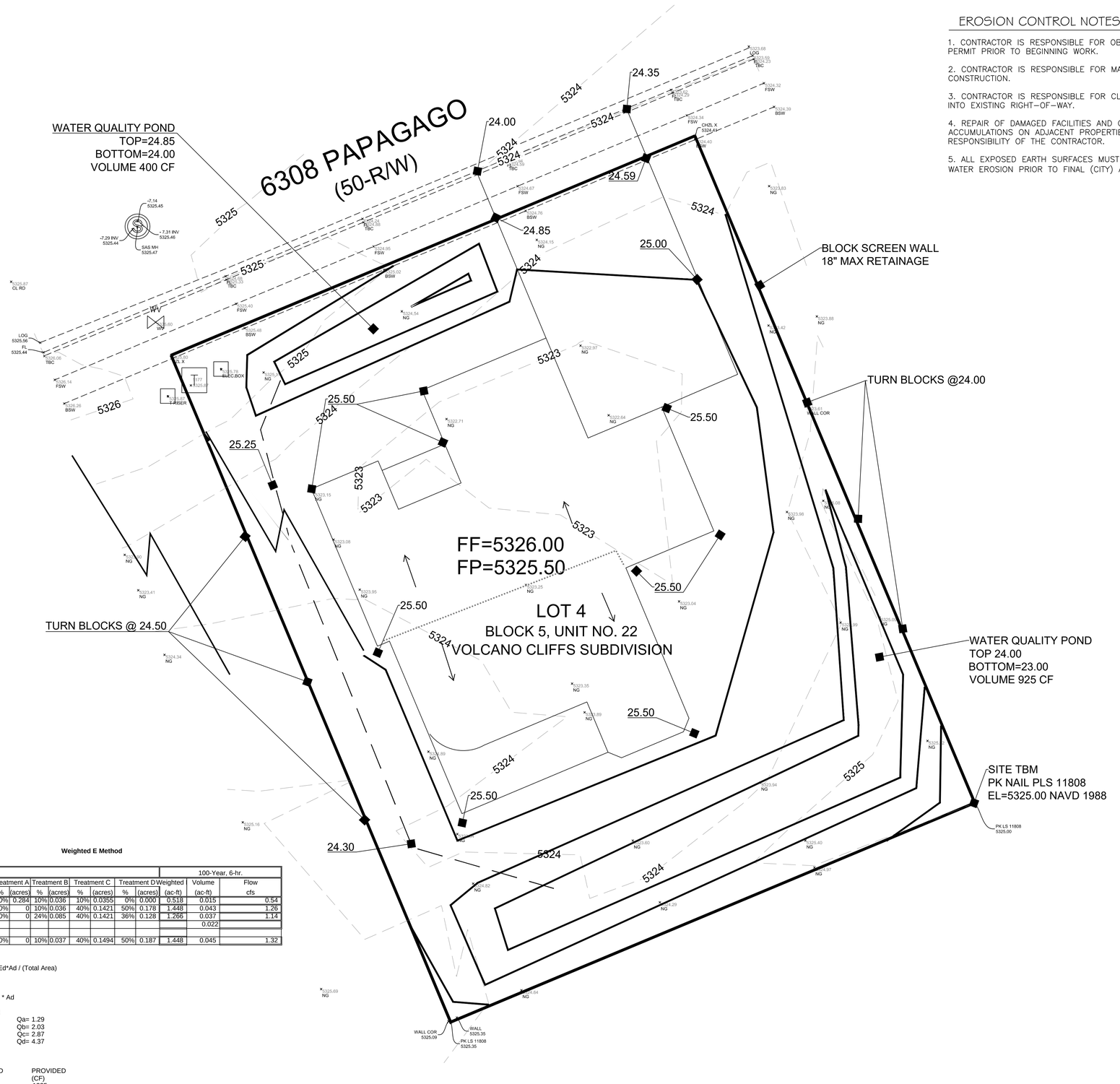
_____ OTHER (SPECIFY) _____

IS THIS A RESUBMITTAL?: _____ Yes X No

DATE SUBMITTED: 8/9/16 By: _____

---

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: ___




## EROSION CONTROL NOTES:

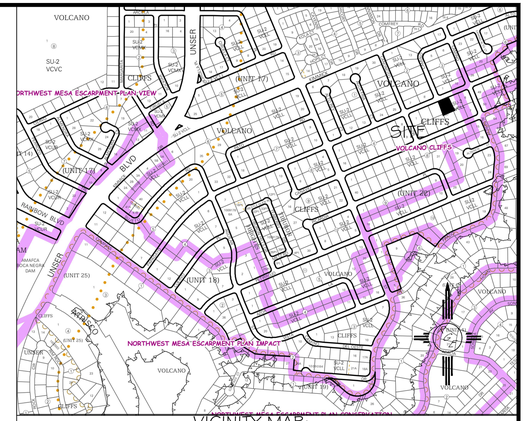
1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.

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 (CITY) ACCEPTANCE OF ANY PROJECT.




VICINITY MAP:


FIRM MAP: FM35001C0112G

## LEGAL DESCRIPTION:

LOT 4, BLOCK 5, UNIT 22, VOLCANO CLIFFS

## NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. TOPOGRAPHIC SURVEY INFORMATION SHOWN ON THIS PLAN WAS OBTAINED BY CONSTRUCTION SURVEY TECHNOLOGIES, DAVID ACOSTA PLS 21081, AUGUST 2016

## LEGEND

- EXISTING CONTOUR (5411)
- EXISTING INDEX CONTOUR (5410)
- PROPOSED CONTOUR (5411)
- PROPOSED INDEX CONTOUR (5410)
- FLOW DIRECTION-SWALE
- PROPOSED SPOT (FLOW-LINE)

**Weighted E Method**

| Basin | Area | Area | Treatment A | | Treatment B | | Treatment C | | Treatment D | | 100-Year, 6-hr. Weighted | Volume | Flow |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (sf) | (acres) | % | (acres) | % | (acres) | % | (acres) | % | (acres) | (ac-ft) | (ac-ft) | cfs |
| NATIVE | 15477.00 | 0.355 | 80% | 0.284 | 10% | 0.036 | 10% | 0.0355 | 0% | 0.000 | 0.518 | 0.015 | 0.54 |
| ALLOWED | 15477.00 | 0.355 | 0% | 0 | 10% | 0.036 | 40% | 0.1421 | 50% | 0.178 | 1.448 | 0.043 | 1.26 |
| PROPOSED | 15477.00 | 0.355 | 0% | 0 | 24% | 0.085 | 40% | 0.1421 | 36% | 0.128 | 1.266 | 0.037 | 1.14 |
| INCREASE | | | | | | | | | | | | 0.022 | |
| total | | | | | | | | | | | | | |
| UPLAND | 16270.00 | 0.374 | 0% | 0 | 10% | 0.037 | 40% | 0.1494 | 50% | 0.187 | 1.448 | 0.045 | 1.32 |

**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 Conditons
FIRST FLUSH WATER QUALITY VOL

| | REQUIRED (CF) | PROVIDED (CF) |
|---|---|---|
| WATER QUALITY | 158 | 1325 |

Narrative

This site is within the SAD 228 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the the adjacent property per the master drainage plan. We are ponding the water harvest volume generated by the site we are allowing the upland flow to pass thru the site. This plan has a shallow water harvest pond in excess of the drainage regulations. This plan is in conformance to the masterplan

N

GRAPHIC SCALE

10 5 0 5 10

SCALE: 1"=10'

ENGINEER'S SEAL

DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER

8/9/16

DAVID SOULE
P.E. #14522

LOT 4, BLOCK 5, UNIT 22
VOLCANO CLIFFS SUBDIVISION

GRADING AND
DRAINAGE PLAN

Rio Grande Engineering
1606 CENTRAL AVENUE SE
SUITE 201
ALBUQUERQUE, NM 87106
(505) 872-0999

DRAWN BY JDG

DATE 09-09-2016

SHEET # 1 OF 1

JOB #

## Weighted E Method

| | | | | | | | | | | | 100-Year, 6-hr. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Basin | Area | Area | Treatment A | | Treatment B | | Treatment C | | Treatment D | | Weighted E | Volume | Flow |
| | (sf) | (acres) | % | (acres) | % | (acres) | % | (acres) | % | (acres) | (ac-ft) | (ac-ft) | cfs |
| NATIVE | 15477.00 | 0.355 | 80% | 0.284 | 10% | 0.036 | 10% | 0.0355 | 0% | 0.000 | 0.518 | 0.015 | 0.54 |
| ALLOWED | 15477.00 | 0.355 | 0% | 0 | 10% | 0.036 | 40% | 0.1421 | 50% | 0.178 | 1.448 | 0.043 | 1.26 |
| PROPOSED | 15477.00 | 0.355 | 0% | 0 | 24% | 0.085 | 40% | 0.1421 | 36% | 0.128 | 1.266 | 0.037 | 1.14 |
| INCREASE | | | | | | | | | | | | 0.022 | |
| total | | | | | | | | | | | | | |
| UPLAND | 16270.00 | 0.374 | 0% | 0 | 10% | 0.037 | 40% | 0.1494 | 50% | 0.187 | 1.448 | 0.045 | 1.32 |

**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

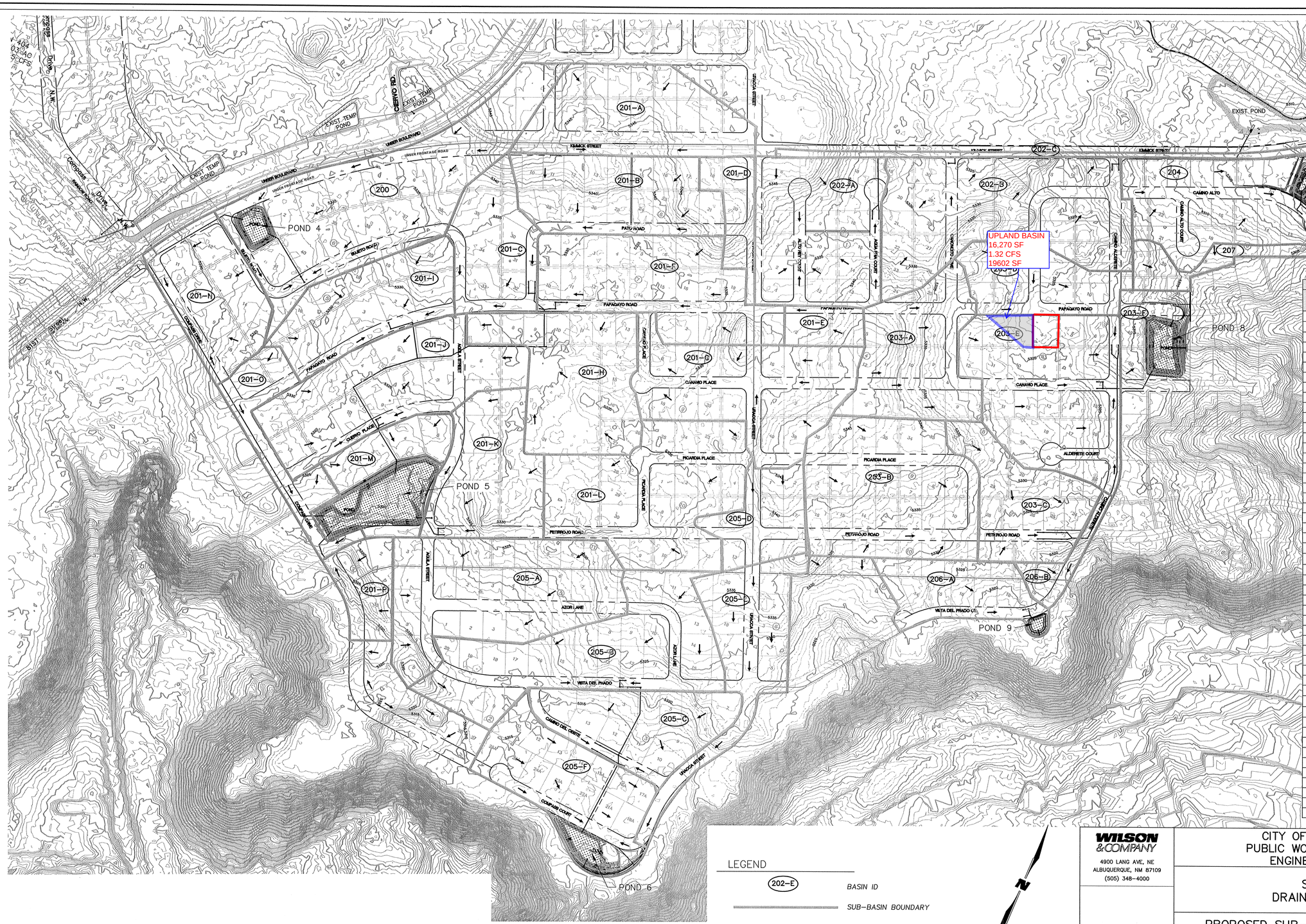
| | |
|---|---|
| Ea= 0.44 | Qa= 1.29 |
| Eb= 0.67 | Qb= 2.03 |
| Ec= 0.99 | Qc= 2.87 |
| Ed= 1.97 | Qd= 4.37 |

ONSITE Conditons
FIRST FLUSH WATER QUALITY VOL

| | REQUIRED (CF) | PROVIDED (CF) |
|---|---|---|
| WATER QUALITY | 158 | 1325 |

Narrative

This site is within the SAD 228 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the the adjacent property per the master drainage plan. We are ponding the water harvest volume generated by the site we are allowing the upland flow to pass thru the site. This plan has a shallow water harvest pond in excess of the drainage regulations. This plan is in conformance to the masterplan


POND 4
POND 5
POND 6
POND 7
POND 8
POND 9
EXIST. POND
EXIST. TEMP. POND
UNSER BOULEVARD
UNSER FRONTAGE ROAD
KIMMICK STREET
PATU ROAD
PAPAGAYO ROAD
CANAMO PLACE
PICACHO PLACE
PETIROJO ROAD
AZOR LANE
VISTA DEL PRADO
CAMINO DEL OESTE
CAMINO ALTO
CAMINO ALTO COURT
ALDERETE COURT
CAMINO ALDERETE
CAMINO CIMA
CAMINO CUMBRE
CAMINO DE LA CUMBRE
CAMINO DEL VALLE
CAMINO DEL VALLE COURT
CAMINO ALEGRE
CAMINO ALEGRE COURT
CAMINO ALEGRE CIRCLE
CAMINO ALEGRE PLACE
CAMINO ALEGRE WAY
CAMINO ALEGRE LOOP
CAMINO ALEGRE TRAIL
CAMINO ALEGRE PATH
CAMINO ALEGRE ROAD
CAMINO ALEGRE DRIVE
CAMINO ALEGRE STREET
CAMINO ALEGRE AVENUE
CAMINO ALEGRE BOULEVARD
CAMINO ALEGRE COURT