

CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



Mayor Timothy M. Keller

May 18, 2020

Richard Dourte, P.E.
RHD Engineering LLC
4305 Purple Sage Ave. NW
Albuquerque, New Mexico 87120

**RE: Lot 3 Block 3 Unit 22 SAD 228
6328 Camino Alto NW Volcano Cliffs Subdivision
Grading and Drainage Plan
Engineers Stamp Date; 1/9/19 (D10D003R3)
Pad Certification Date; 8/3/19
C.O. Certification Date; 5/15/2020**

Mr. Dourte,

PO Box 1293

Based upon the information provided in your submittal received 5/15 /2020, this plan is approved for Certificate of Occupancy release.

Albuquerque

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

Sincerely,

NM 87103

www.cabq.gov

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

RR/EA
C: File D10D003R3



City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: 6328 Camino Alto NW **Building Permit #:** _____ **Hydrology File #:** D10D003R3
DRB#: _____ **EPC#:** _____ **Work Order#:** _____
Legal Description: Lot 3, Block 3, Volcano Cliff unit 22
City Address: _____

Applicant: RHD Engineering, LLC **Contact:** Richard Dourte
Address: 4305 Purple Sage Ave. NW, Alb. NM, 87120
Phone#: 505.288.1621 **Fax#:** _____ **E-mail:** rhengineering@outlook.com

Other Contact: Candelaria Homes **Contact:** Diego Candelaria
Address: _____
Phone#: 505-248-5608 **Fax#:** _____ **E-mail:** _____

TYPE OF DEVELOPMENT: _____ PLAT (# of lots) ☒ RESIDENCE _____ DRB SITE _____ ADMIN SITE

IS THIS A RESUBMITTAL? ☒ Yes _____ No

DEPARTMENT _____ TRANSPORTATION ☒ HYDROLOGY/DRAINAGE

Check all that Apply:

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?

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: 5-15-20 **By:** Richard Dourte

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

GENERAL NOTES:

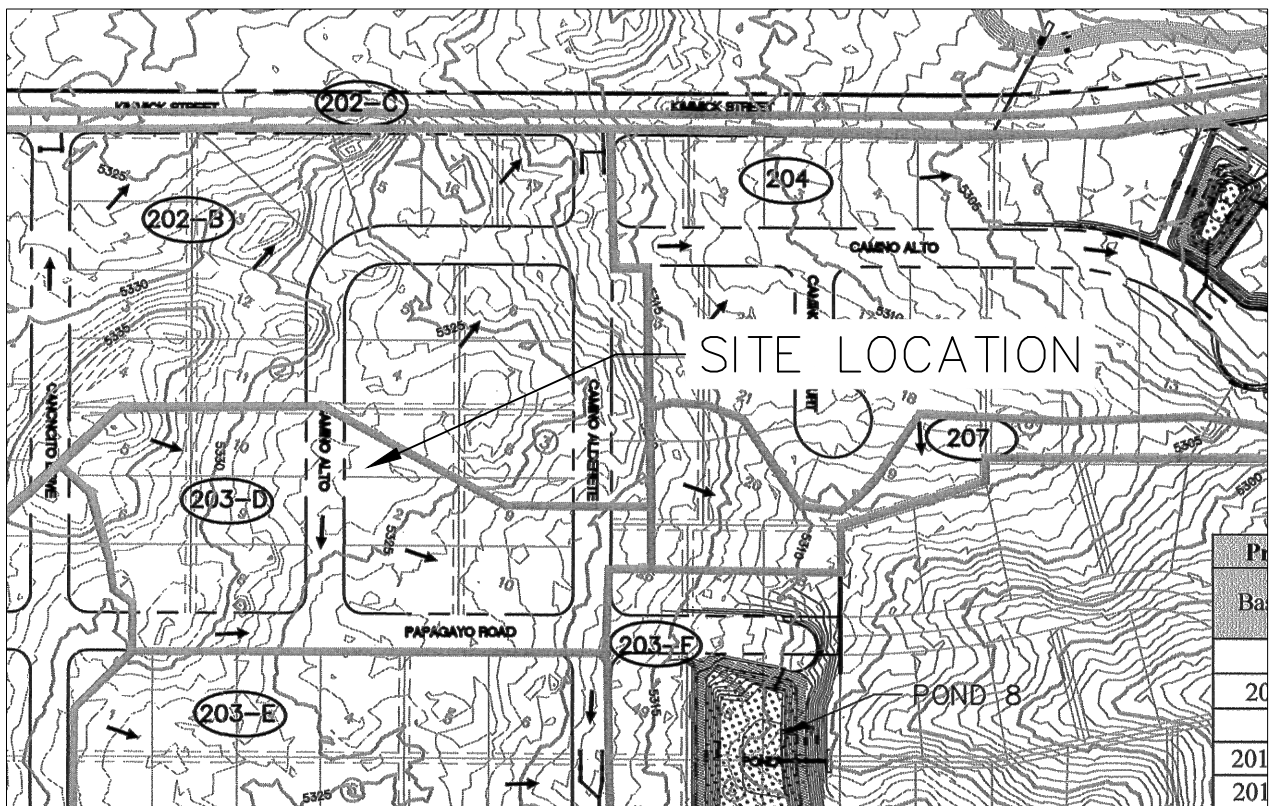
1. THIS SITE IS NOT LOCATED IN A FEMA FLOOD HAZARD ZONE (REFER TO THE FIRM MAP 35001C0012G, EXCERPT ATTACHED).
2. RHD ENGINEERING, LLC RECOMMENDS THAT THE OWNER OBTAIN A GEOTECHNICAL REPORT PRIOR TO DESIGN OF BUILDING FOOTING/FOUNDATION.
3. SLOPE STABILAZATION SHALL BE USED ON SLOPES GREATER THAN A 3:1 SLOPE, PER MANUFACTURER RECOMMENDATIONS.
4. MODIFICATIONS OR ADJUSTMENTS TO EXISTING DRAINAGE STRUCTURES/EROSION MITIGATION IMPROVEMENTS SHALL BE DONE IN THE SAME MANNER AS THE ORIGINAL IMPROVEMENT.
5. ALL SWPPP REQUIREMENTS SHALL BE ADHERED TO.
6. ALL WORK ON THIS PLAN SHALL BE DONE IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARDS. ALL APPLICABLE PERMITS SHALL BE OBTAINED PRIOR TO WORK COMMENCING.
7. ALL WORK IN THE RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARDS.
8. THIS GRADING PLAN IS TO BE UTILIZED AND A COPY PROVIDED TO THE CITY WHEN APPLYING FOR THE CONSTRUCTION OF ANY GARDEN OR RETAINING WALLS, WITH RESPECT TO THIS SITE.
9. THE SURVEY INFORMATION WAS PROVIDED BYCONSTRUCTION SURVEYS TECHNOLOGIES, INC.
10. FOR SITE DIMENSIONS, BUILDING AND INFRASTRUCTURE LOCATION REFER TO THE SITE PLAN.

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.

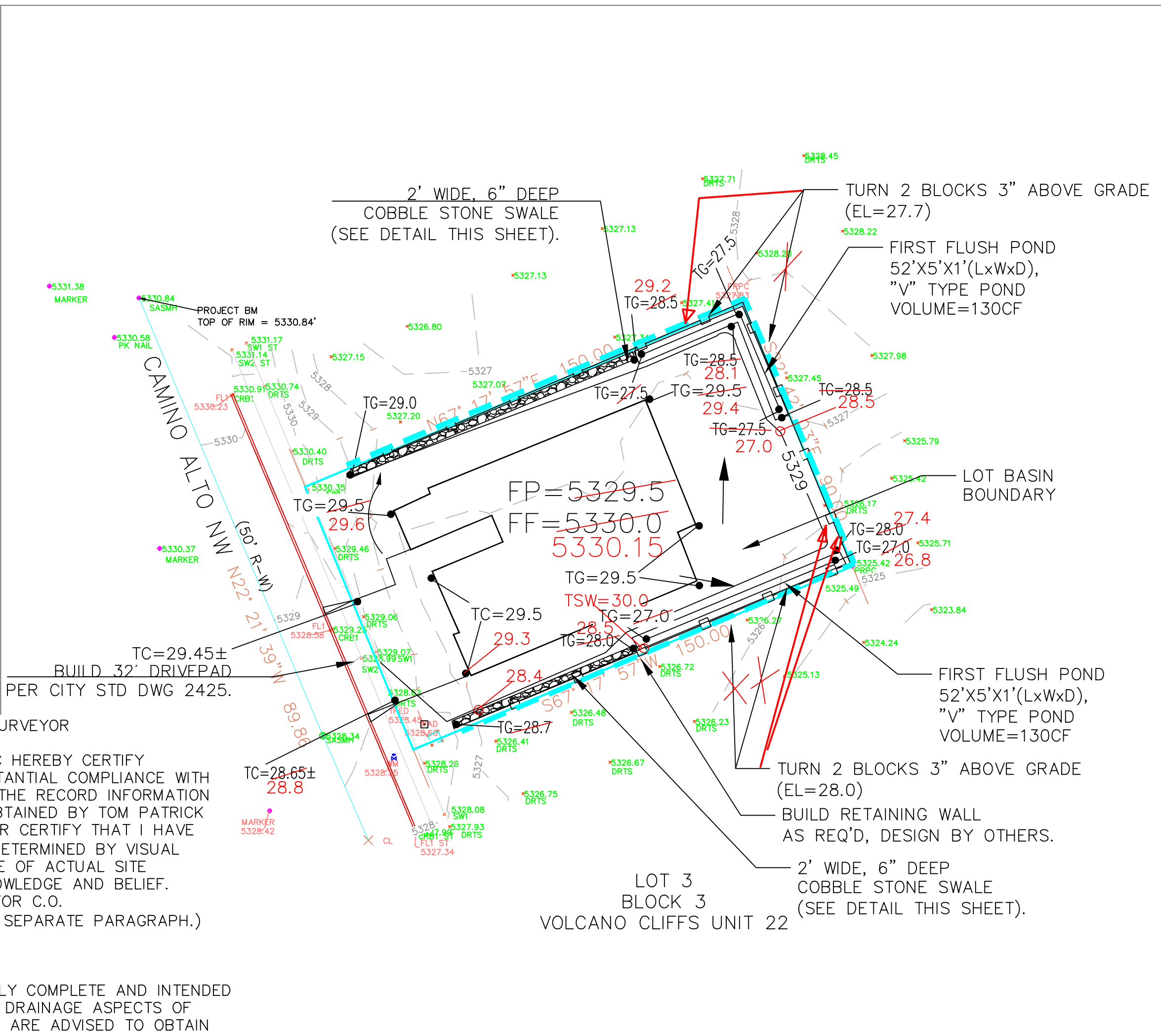
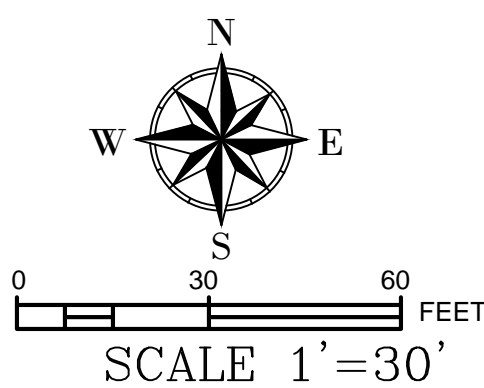
CAUTION:

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.



EXCERPT FROM SAD 228 DRAINAGE REPORT

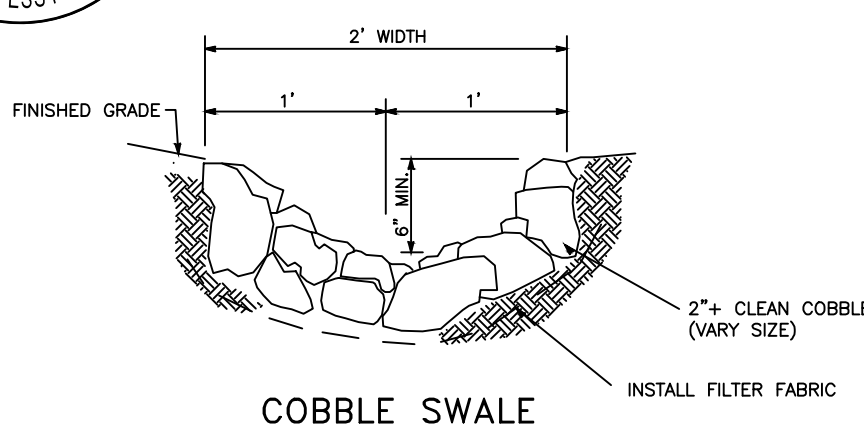
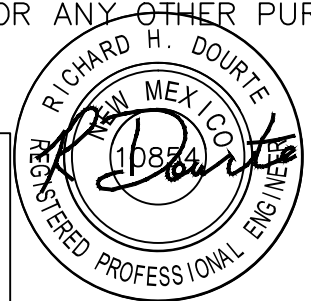
| | | | | |
|--|--------|-------|--------------------|-------------------------|
| Project: 6328 CAMINO ALTO NW Drainage Calculations - Zone 1 | | | | |
| Total Lot Area (ac) = 0.3099 | | | | |
| Depth (inches) at 100yr Storm | | | | |
| Zone | P60 | P360 | P1440 | P4days |
| 1 | 1.87 | 2.20 | 2.66 | 3.12 |
| Weighted E= ((Ea*Aa)+(Eb*Ab)+(Ec*Ac)+(Ed*Ad))/(Aa+Ab+Ac+Ad) | | | | |
| V360=(Weighted E *P360)/12 in/ft | | | | |
| V1440= V360+Ad*(P1440-P360)/12in/ft | | | | |
| V4days=V360+Ad*(P4day-P360)/12in/ft | | | | |
| V10days=V360+Ad*(P10days-P360)/12in/ft | | | | |
| Excess Precipitation, E(inches) - 6 HR | | | | |
| Zone | A | B | C | D |
| 1 | 0.44 | 0.67 | 0.99 | 1.97 |
| Peak Discharge (CFS/ACRE) 100 YR | | | | |
| Zone | A | B | C | D |
| 1 | 1.29 | 2.03 | 2.87 | 4.37 |
| *****SAD 228 Permittable Design Conditions***** | | | | |
| Area | SQ. FT | Acres | Design Flows (CFS) | |
| (0%)A= | 0 | 0.000 | Area | SQ. FT |
| (10%)B= | 1350 | 0.031 | Acres | Peak Discharge (100 YR) |
| (40%)C= | 5400 | 0.124 | A= | 0 0.000 0.00 |
| (50%)D= | 6750 | 0.155 | B= | 1349.9 0.031 0.06 |
| Total | 13500 | 0.310 | C= | 5399.7 0.124 0.36 |
| Weighted E= | 1.448 | | D= | 6749.6 0.155 0.68 |
| Total (CFS) | | | | |
| 1.10 | | | | |
| *****PROPOSED CONDITIONS***** | | | | |
| Area | SQ. FT | Acres | Design Flows (CFS) | |
| A= | 0 | 0.000 | Area | SQ. FT |
| B= | 900 | 0.021 | Acres | Peak Discharge (100 YR) |
| C= | 6765 | 0.155 | A= | 0 0.000 0.00 |
| D= | 5835 | 0.134 | B= | 900 0.021 0.04 |
| Total | 13500 | 0.310 | C= | 6765 0.155 0.45 |
| Weighted E= | 1.392 | | D= | 6580 0.151 0.66 |
| Total (CFS) | | | | |
| 1.15 | | | | |
| The 100 year peak flows for this developed site is 1.15 CFS and the SAD 228 permissible design flows are 1.1 CFS for an increase of 0.05CFS. | | | | |
| First Flush Ponding Requirement = Ao *0.34 in/12in/ft = 165 CF | | | | |



DRAINAGE CERTIFICATION WITH SURVEY WORK BY PROFESSIONAL SURVEYOR
DRAINAGE CERTIFICATION
I, Richard Dourte, NMPE 10854 OF THE FIRM RHD Engineering, LLC HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 1-09-19. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENTATION HAS BEEN OBTAINED BY TOM PATRICK NMPS 12651 OF THE FIRM COMMUNITY SCIENCES CORP. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 5/14/19 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF THE REQUEST FOR C.O.
(DESCRIBE ANY EXCEPTIONS AND /OR QUALIFICATIONS HERE IN A SEPARATE PARAGRAPH.)
1. CHANGES SHOWN IN RED.
2. FIRST FLUSH POND ADJACENT TO REAR WALL.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENTATION ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

Richard Dourte
Richard Dourte, NMPE 10854



GARDEN WALL/RETAINING WALL DETAIL

1. ANY GARDEN WALL/RETAINING WALL IS TO BE BUILT ON-SITE (DESIGN OF THE GARDEN WALL/RETAINING WALL IS BY OTHERS).
2. A PERMIT IS REQUIRED FOR THE CONSTRUCTION OF THE RETAINING WALL AND ANY FUTURE GARDEN WALL. THIS IS THE PLAN TO FOLLOW (4-30-18) WHEN APPLYING FOR A PERIMETER BLOCK WALL.

DRAINAGE NARRATIVE:

1. THIS SITE IS LOCATED WITHIN THE SAD 228 DRAINAGE MASTER PLAN AREA.
2. A DRAINAGE BASIN BOUNDARY IS LOCATED ON THIS SITE. APPROXIMATELY 1/2 OF THIS SITE IS TO DRAIN TO THE NORTHWEST AND THE OTHER PORTION IS TO DRAIN TO THE SOUTHEAST.
3. THE VOLUMES OF THE FIRST FLUSH PONDS ARE 130CF +130CF=260CF, THIS IS GREATER THAN THE REQUIRED PONDING OF 165CF.

LEGAL DESCRIPTION:

LOT 3, BLOCK 3, VOLCANO CLIFFS UNIT 22
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. RETAIN THE FIRST .46" OF STORM RUNOFF FROM ENTIRE DEVELOPMENT TO CONFORM TO THE WATER QUALITY REQUIREMENTS

LEGEND

| | |
|----------------------------------|--|
| TC=46.00 FL=46.00 TW=44.00 | PROPOSED SPOT ELEVATION TOP OF WALL ELEVATION |
| --- | EXISTING CONTOUR |
| --- | EXISTING INDEX CONTOUR |
| --- | PROPOSED CONTOUR |
| --- | PROPOSED INDEX CONTOUR |
| --- | LOT LINE |
| --- | RIGHT-OF-WAY |
| --- | PROPOSED RETAINING WALL (DESIGN BY OTHERS) |
| --- | PROPOSED WALL |
| --- | EXISTING CURB AND GUTTER |
| --- | PROPOSED EDGE OF CONCRETE |
| --- | PROPOSED FLOWLINE |
| --- | EXISTING WALL |
| --- | PROPOSED BASIN BOUNDARY |

I HAVE PERSONALLY INSPECTED THE PROPERTY ON 4-12-18. NO EARTHWORK HAS BEEN PERFORMED AND THE SITE IS CONSISTENT WITH THE TOPO SHOWN.
Richard Dourte
Richard Dourte P.E. #10854

| | | |
|-------------------------------|---|-------------------|
| ENGINEER'S SEAL | Title 6328 CAMINO ALTO NW | DRAWN BY |
| | GRADING AND DRAINAGE PLAN | DATE |
| | RHD Engineering, LLC 4305 Purple Sage Ave. NW ALBUQUERQUE, NM 87120 (505) 288-1621 | SHEET # 1 of 1 |
| | 1/09/19 | JOB # |
| Richard Dourte P.E. #10854 | | |