CITY OF ALBUQUERQUE

Planning Department
Suzanne Lubar, Director

Mayor Richard J. Berry

March 15, 2016

David Soule, PE
Rio Grande Engineering
1606 Central SE Suite 201
Albuquerque, NM 87106

Re: Mellor Residence
6309 Canavio NW
Request Permanent C.O. - Accepted
Engineer's Stamp dated: 9-10-15 (D10D003V9)
Certification dated: 3-11-16

PO Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

Dear Mr. Soule,

Based on the Certification received 3/11/2016, the site is acceptable for release of Certificate of Occupancy by Hydrology.

If you have any questions, you can contact me at 924-3986 or Totten Elliott at 924-3982.

Sincerely,

Rita Harmon, P.E.
Senior Engineer, Planning Dept.
Development Review Services

TE/RH
C: email Cordova, Camille C.; Miranda, Rachel; Sandoval, Darlene M.; Blocker, Lois

Weighted E Method

Basin	Area (sf)	Area (acres)	Treatment A %	Treatment A (acres)	Treatment B %	Treatment B (acres)	Treatment C %	Treatment C (acres)	Treatment D %	Treatment D (acres)	100-Year, 6-hr. Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs
UPLAND	54266.00	1.246	0%	0	10%	0.125	40%	0.49831	50%	0.623	1.448	0.150	4.41
NATIVE	15400.00	0.354	80%	0.2828	10%	0.035	10%	0.03535	0%	0.000	0.518	0.015	0.54
ALLOWED	15400.00	0.354	0%	0	10%	0.035	40%	0.14141	50%	0.177	1.448	0.043	1.25
PROPOSED	15400.00	0.354	0%	0	23%	0.081	38%	0.13434	39%	0.138	1.299	0.038	1.15
INCREASE												0.023	
total													

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

OVERFLOW CALCULATION
Q=CLi(H^1.5)
EACH TURNED BLOCK HAS 2-6X6 OPENINGS
Q=2X 2.95X.5X(.5^1.5)=1.04 CFS
SINCE 5.56 CFS USE 6 TURNED BLOCKS

ONSITE Conditons
FIRST FLUSH WATER QUALITY VOLUME

	REQUIRED (CF)	PROVIDED (CF)
WATER QUALITY	170	1246
POND INCREASED	1002	1246

Narrative

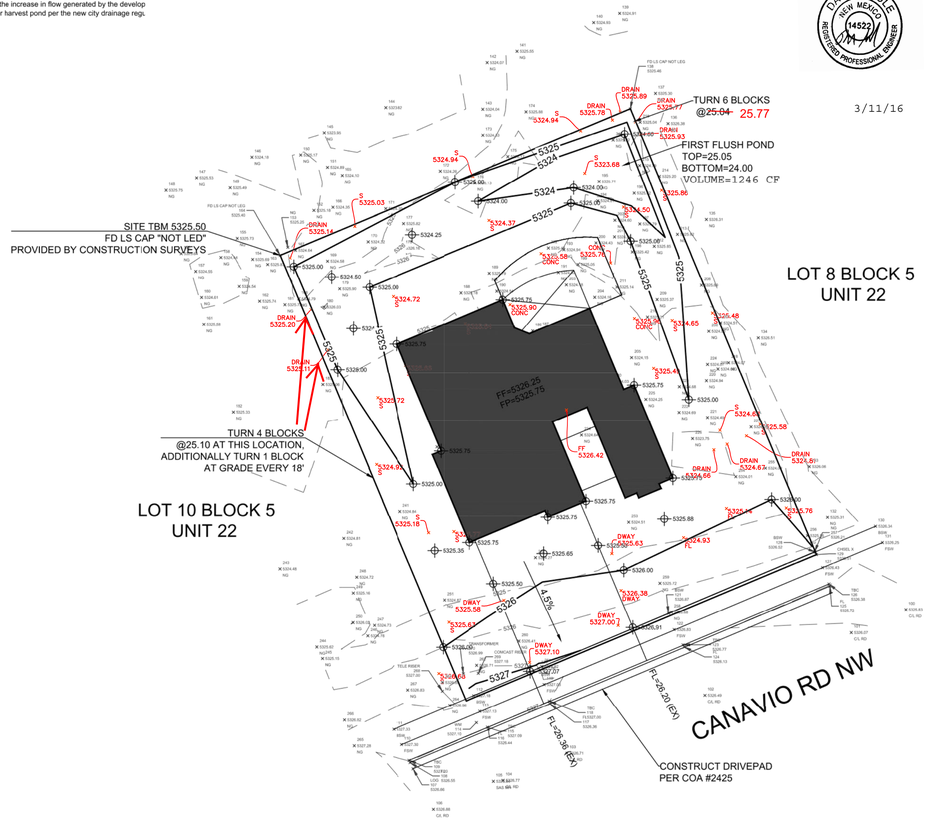
This site is within the SAD 228 Master Drainage plan boundaries. The site is to drain to the the adjacent lot per the master drainage plan. We are ponding the increase in flow generated by the develop of this site, allowing upland flow to pass thru. This plan has a shallow water harvest pond per the new city drainage regs. This plan is in conformance to the masterplan

I David Soule, NMPE 14522 , of the firm Rio Grande Engineering, hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intend of the approved plan dated 9/10/15 The record information edited on the original design document has performed by me or under my direct supervision and is true and correct to the best of my knowledge and belief. The as-built survey was provided DAVID ACOSTA NMPS 21082. The certification is submitted in support of a request for PERMANENT CERTIFICATE OF OCCUPANCY. The record information presented heron 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 document are advised to obtain independent verification of its accuracy before using it for any other purpose.

TURNED BLOCKS WERE MODIFIED BASED UPON AS BUILT CONDITIONS OF ADJACENT PROPERTIES
SITE ACCEPTS FLOW AND PASSES FLOW IN CONFORMANCE TO THE MASTER DRAINAGE PLAN.

DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER

3/11/16



COORDINATES SYSTEM IS NEW MEXICO
STATE PLANE CENTRAL ZONE NAD1983/NAVD 1988
AND ARE REFERENCED TO THE ALBUQUERQUE
GEODETIC REFERENCE SYSTEM AS DETERMINED BY
GPS OBSERVATIONS OBTAINED USING THE
TRIMBLE NOW VRS NETWORK.
DISTANCES ARE GROUND. THESE VALUES WERE
PROVIDED BY CONSTRUCTION SURVEY TECHNOLOGIES
NMPLS 21082

EROSION CONTROL NOTES:

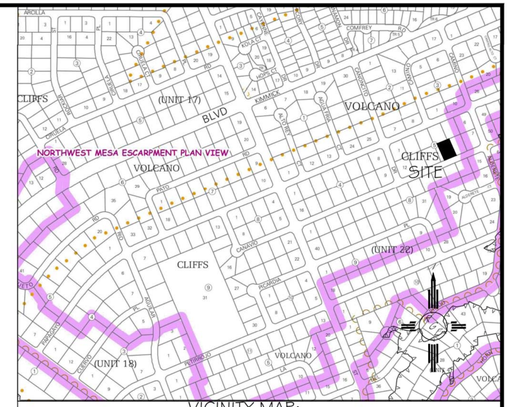
1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.

2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.

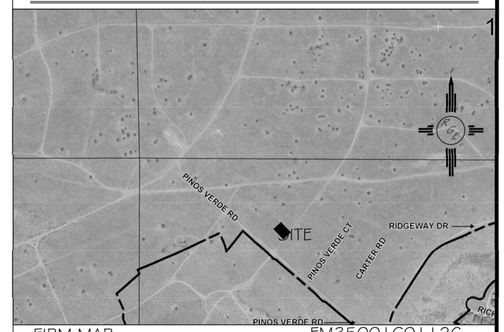
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.

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 9, 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 2081, SEPT 2015

LEGEND

- 5411 EXISTING CONTOUR
- 5410 EXISTING INDEX CONTOUR
- 5411 PROPOSED CONTOUR
- 5410 PROPOSED INDEX CONTOUR

N

GRAPHIC SCALE
20 10 0 10 20
SCALE: 1"=20'

ENGINEER'S SEAL	LOT 9, BLOCK 5, UNIT 22 VOLCANO CLIFFS SUBDIVISION PADILLA RESIDENCE	DRAWN BY JDG
DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER 9/10/15 DAVID SOULE P.E. #14522	GRADING AND DRAINAGE PLAN	DATE 09-09-2015
	Rio Grande Engineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	SHEET # 1 OF 1 JOB #

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title: Mellor Residence---6309 Canavio Building Permit #: _____ City Drainage #: _____

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

Legal Description: Lot 9, Block 5, Unit 22

City Address: 6309 Canavio

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: MELLOR Contact: _____

Address: 6309 CANAVIO

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

Architect: SANDRA GARCIA 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:

X ENGINEER/ ARCHITECT CERTIFICATION

_____ CONCEPTUAL G & D PLAN

_____ GRADING PLAN

_____ DRAINAGE MASTER PLAN

_____ DRAINAGE REPORT

_____ CLOMR/LOMR

_____ TRAFFIC CIRCULATION LAYOUT (TCL)

_____ TRAFFIC IMPACT STUDY (TIS)

_____ EROSION & SEDIMENT CONTROL PLAN (ESC)

_____ OTHER (SPECIFY) _____

IS THIS A RESUBMITTAL?: _____ Yes X No

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

_____ BUILDING PERMIT APPROVAL

X 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) _____

DATE SUBMITTED: 3/11/16 By: _____

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: ___