CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



April 3, 2024

John Luna 601 Menaul Blvd. NE # 2403 Albuquerque, New Mexico 87107

RE: 6004 Sierra Linda Ave. NW Grading and Drainage Plan Engineers Stamp Date 3/18/2024 (E11D032)

Mr. Luna,

Based upon the information provided in your submittal received 3/19/2024, this plan is approved for Grading Permit.

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

PO Box 1293

Advise the owner contractor not to use dirt as a ramp to climb the curb, use lumber or crusher fines for this purpose.

Albuquerque

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. Also, if a swimming pool is to be placed the grading and drainage plan will need to be revised and resubmitted to our section.

NM 87103

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

www.cabq.gov

If you have any questions, please contact me at (505)924-3695 or Rudy Rael at (505)924-3977.

Sincerely,

Tiequan Chen, P.E.

Principal Engineer, Hydrology

Planning Department, Development Review Services

RR/TC

C: File E11D032



City of Albuquerque

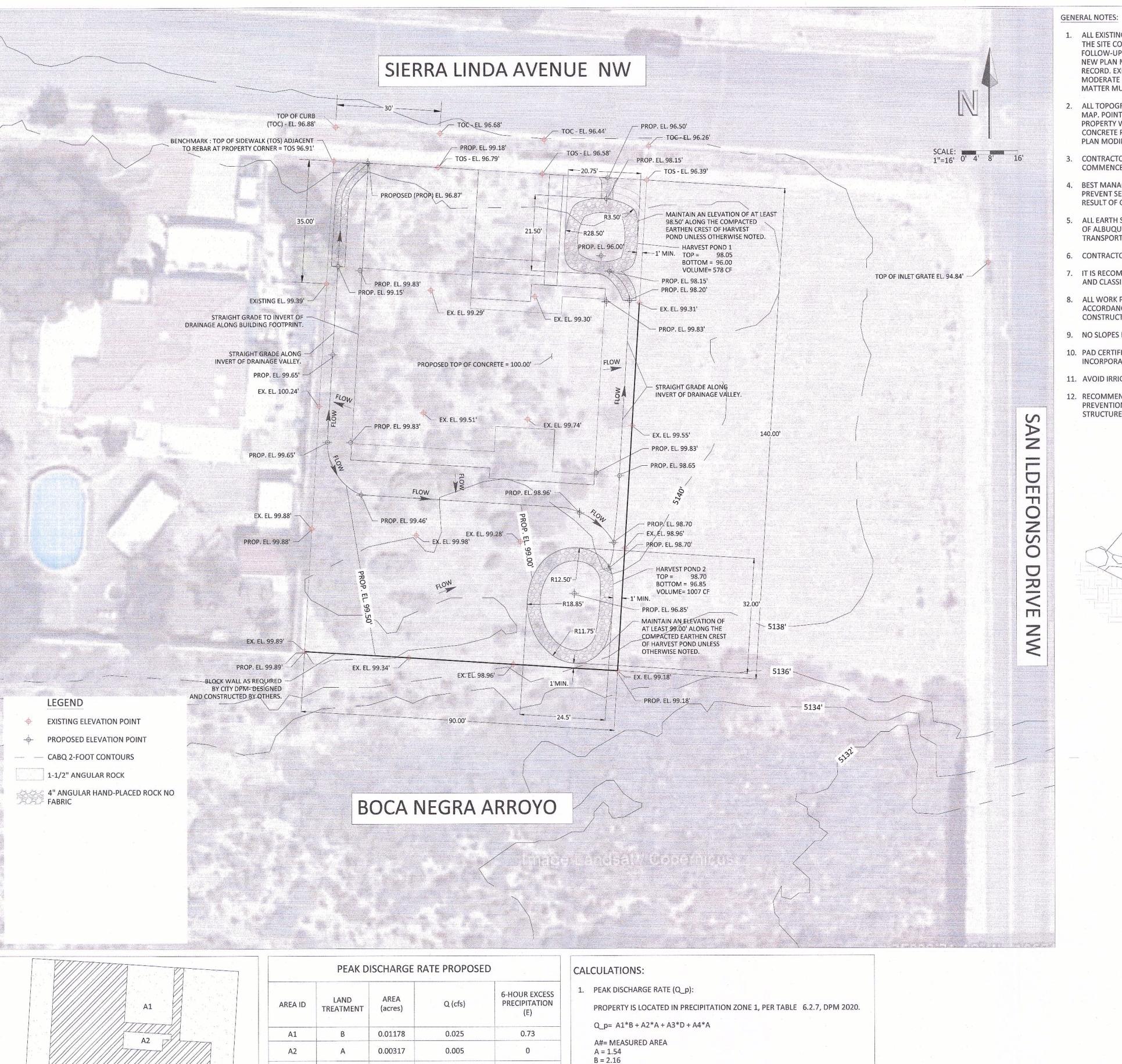
Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

	Building Permit #: 2024 026 87 Hydrology File #:
DRB#:	_ EPC#: Work Order#:
Legal Description: Lot 11 Block	6 OF VOICAND CLIFFE UNIT 7 BERNALLIO
City Address: 4004 Si	ERRA LINDA AUE NW Albanner
	8/120
Applicant: LONA HOME	BUILDERS, LLC Contact: JUAN OR EVA LUNA
Address: 2740 S_ S	ADDIER ST DEMING NM 8803
Phone#: (575) 494-0969	Fax#: E-mail: LUNA 88030 10
Owner: Tohu LUNA	Contact: 494-2461 NE #2403 Albuqueque Nm 87107
Address: LOI MENAUL BIN	NE # 2403 Albugicage NM 87107
Phone#: 575 494-2461	Fax#: E-mail: TLUNA 575 @
Thomas.	GMil. Com
TYPE OF SUBMITTAL: PLAT (# OF	LOTS) RESIDENCE DRB SITE ADMIN SITE
IS THIS A RESUBMITTAL?:Y	
DEPARTMENT: TRAFFIC/ TRANSPOR	TATION HYDROLOGY/ DRAINAGE
Check all that Apply:	
TYPE OF SUBMITTAL: ENGINEER/ARCHITECT CERTIFICATION CONCEPTUAL G & D PLAN GRADING PLAN DRAINAGE MASTER PLAN DRAINAGE REPORT FLOODPLAIN DEVELOPMENT PERMIT A ELEVATION CERTIFICATE CLOMR/LOMR TRAFFIC CIRCULATION LAYOUT (TCL) TRAFFIC IMPACT STUDY (TIS) OTHER (SPECIFY) PRE-DESIGN MEETING?	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
DATE SUBMITTED: 3-19-24	By: EUA LUNA
COA STAFF:	ELECTRONIC SUBMITTAL RECEIVED:

FEE PAID:____



A, B, AND D ARE 100-YEAR PEAK DISCHARGE RATES (CFS/ACRE) FOR LAND

 $==> Q_p = 0.025 + 0.005 + 0.465 + 0.248 = 0.74 cfs$

WEIGHTED E = (E(A)*A(A) + E(B)A(B) + E(C)A(C) + E(D)A(D)) / (A(A)+A(B)+A(C)+A(D))

= 1.217 INCHES

V360= WEIGHTED E* (A(A) + A(B) + A(C)+A(D)) / 12 = 0.02934 ACRE-FEET

POND VOLUME REQUIRED:

DEPTH AT 100-YEAR, 6-HOUR STORM: P(360)= 2.15 INCHES 10-DAY STORM: P(10DAY)= 3.88 INCHES

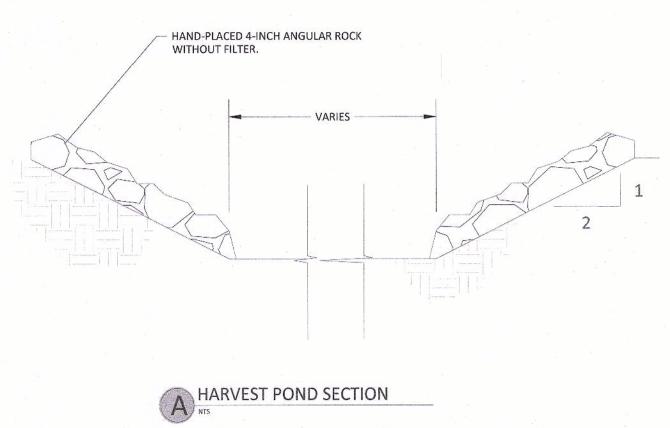
V(10DAY) = V(360) + A(D) * (P(10DAY) - P(360)) / (12in/ft)

= 0.02934 + 0.11297 * (3.88 - 2.15) /12

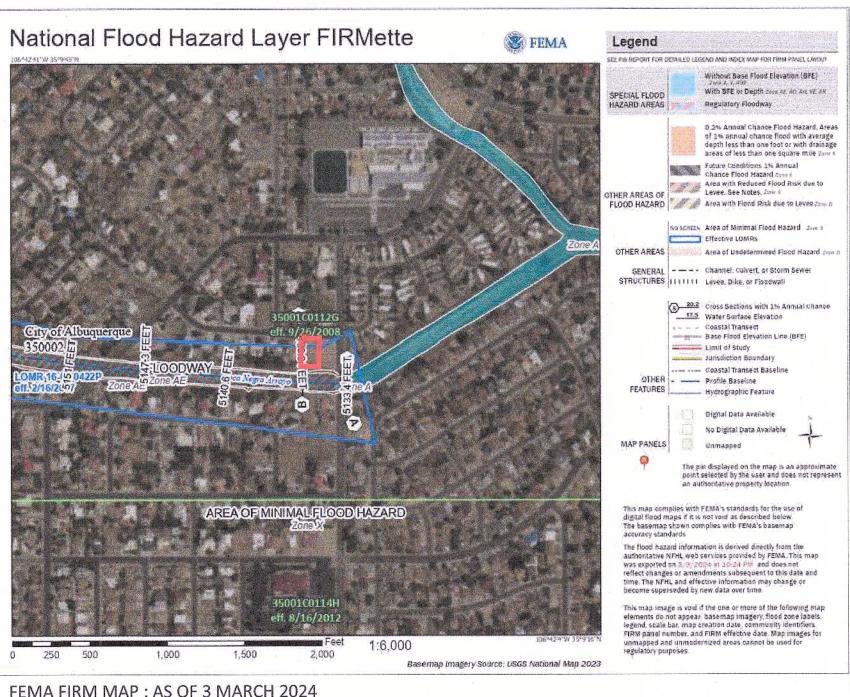
= 1988 -----> HARVEST VOLUME= [1988 - 467] CU.FT.= 1,521 CU.FT.

4. VOLUME PROVIDED = 578 + 1007 = **1585 CF** > 1,521 CU. FT. (OKAY)

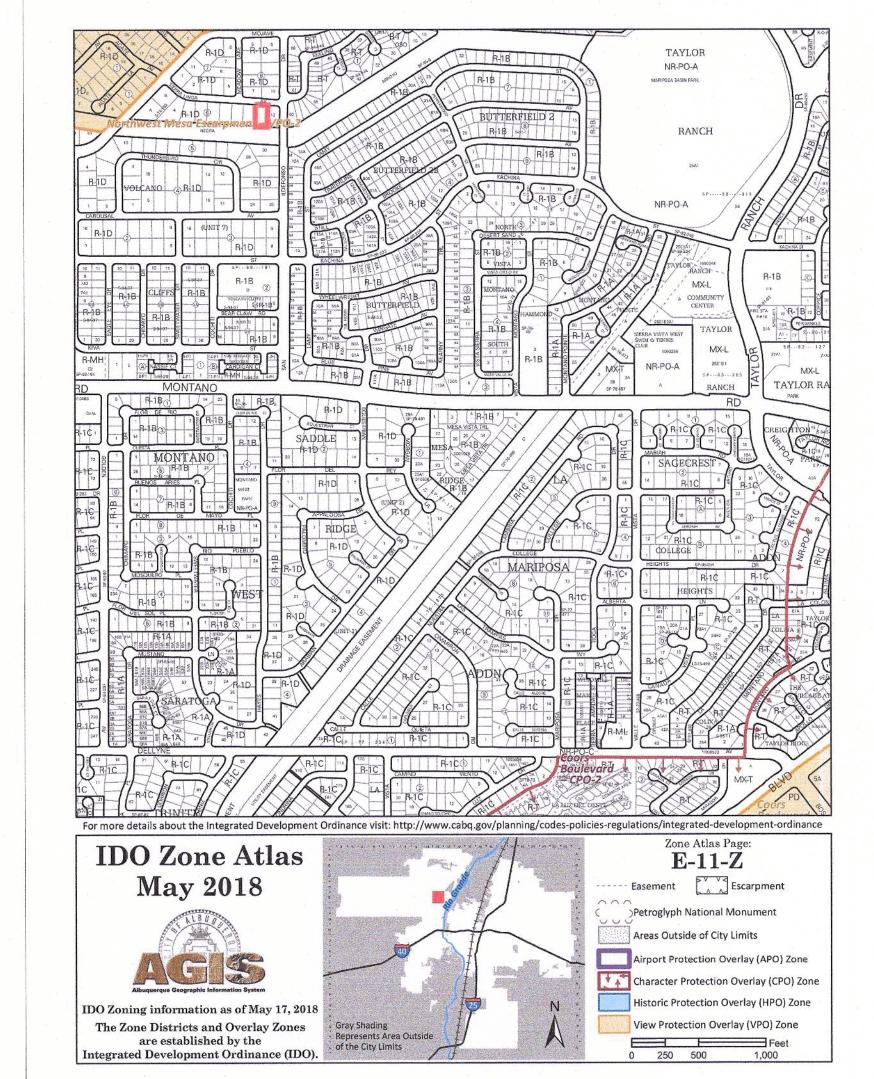
- ALL EXISTING CONDITIONS WERE DOCUMENTED DURING A SITE VISIT ON 19 FEBRUARY 2024, ANY CHANGES TO THE SITE CONDITIONS DOCUMENTED HEREIN, PRIOR TO IMPLEMENTATION OF THIS DRAINAGE PLAN, REQUIRES FOLLOW-UP ASSESSMENT BY ENGINEER OF RECORD OR OTHER PROFESSIONAL ENGINEER TO DETERMINE IF A NEW PLAN MUST BE DEVELOPED. LAND OWNER SHALL COMMUNICATE ANY SUCH CHANGE TO THE ENGINEER OF RECORD. EXISTING CONDITIONS CONSIST OF UNDEVELOPED LAND WITH MINOR GRASSY VEGETATION AND MODERATE PRESENCE OF SHRUBS. CLEAR AND GRUB ALONG ALL SURFACES THAT WILL BE GRADED. ORGANIC MATTER MUST BE REMOVED PRIOR TO GRADING AND NOT BE MIXED INTO NATIVE SOILS.
- ALL TOPOGRAPHIC ELEVATIONS SHOWN ARE FROM CITY OF ALBUQUERQUE 2 FT. CONTOUR SURFACE ELEVATION MAP. POINT ELEVATIONS SHOWN ARE ASSOCIATED WITH TOP OF SIDEWALK ON NORTHWEST CORNER OF PROPERTY WHICH IS COINCIDENTAL WITH PROPERTY CORNER MARKED WITH REBAR. ANY CHANGES TO CONCRETE PAD ELEVATION MUST BE COMMUNICATED TO ENGINEER OF RECORD TO DETERMINE IF DRAINAGE PLAN MODIFICATION IS REQUIRED.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING A PERMIT FOR TOPSOIL DISTURBANCE BEFORE WORK
- BEST MANAGEMENT PRACTICES MUST BE USED TO MAINTAIN SITE RUNOFF DURING CONSTRUCTION AND PREVENT SEDIMENT TRANSPORT INTO DRAINAGE INFRASTRUCTURE. ANY SEDIMENT TRANSPORTED OFFSITE AS A RESULT OF GRADING WORK MUST BE REMOVED FROM ADJACENT PROPERTIES OR THE PUBLIC RIGHT OF WAY.
- ALL EARTH SURFACES NOT DESIGNATED TO RECEIVE GRAVEL OR HAND-PLACED ROCK MUST BE SEEDED PER CITY OF ALBUQUERQUE SPECIFICATION 1012 NATIVE SEED MIX, OR HAVE GRAVEL PLACED TO MITIGATE SEDIMENT TRANSPORT THAT MAY REDUCE HARVEST POND CAPACITIES.
- CONTRACTOR MUST ENSURE POSITIVE DRAINAGE FROM STRUCTURE AS SHOWN.
- 7. IT IS RECOMMENDED THAT OWNER UTILIZE GEOTECHNICAL SERVICES TO DETERMINE SOIL BEARING CAPACITY AND CLASSIFICATION FOR FOUNDATION EVALUATION.
- 8. ALL WORK PERFORMED TO MEET THE REQUIREMENTS DESCRIBED HEREIN MUST BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS PERTAINING TO CONSTRUCTION SAFETY AND HEALTH.
- 9. NO SLOPES INCLUDED IN THIS WORK MAY BE STEEPER THAN 3-FOOT-HORIZONTAL TO 1-FOOT-VERTICAL.
- 10. PAD CERTIFICATION MUST BE COMPLETE ONCE ALL GRADING HAS BEEN PERFORMED AND WILL BE INCORPORATED INTO THIS PLAN AND SUBMITTED SEPARATELY.
- 11. AVOID IRRIGATION WITHIN 10 FEET OF STRUCTURE.
- 12. RECOMMEND THAT ALL DOWNSPOUTS OR GUTTERS BE ROUTED TO HARVEST SYSTEM OR INCLUDE EROSION PREVENTION AT SPLASH AREA WHICH MAY CAUSE SCOUR AND EVENTUAL PONDING. PONDING ADJACENT TO STRUCTURES FOUNDATION AND COULD REDUCE BEARING CAPACITY AND CAUSE CONCENTRATED SETTLEMENT



CITY OF ALBUQUERQUE HYDROLOGY SECTION REVIEW



FEMA FIRM MAP: AS OF 3 MARCH 2024



VICINITY MAP: ZONE ATLAS SHEET E-11-Z

6004 Sierra Linda Ave NW Albuquerque NM 87120



14008 Arcadia Rd NE

Albuquerque, NM 87123 GRADING AND DRAINAGE PLAN

LOT 11, BLOCK 6 **VOLCANO CLIFFS** RESIDENTIAL 6004 SIERRA LINDA AVENUE NORTHWEST ALBUQUERQUE, NM 87120 SHEET 1 OF 1

B = 2.16D = 4.120.11297 0.465 2.24 TREATMENTS AS DEFINED IN TABLE 6.2.14, DPM 2020. 0.55 0.16134 0.248 $==> Q_A1 = A1 * B = 0.01178 acres x 2.16 cfs/acre = 0.025 cfs$ TOTAL Q_p

PEAK DISCHARGE RATE HISTORIC HARVEST REQUIREMENT TREATMENT (CU. FT.) 0.28926 0.445 TOTAL AREA

HISTORIC:

DISCHARGE AREAS

WEIGHTED E= 0.445

V360=0.010727 ACRE-FEET OR (467 CU. FT.)