

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

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.

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

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.

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

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)

Project Title: _____ Building Permit #: 2024 02687 Hydrology File #: _____

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

Legal Description: LOT 11 Block 6 OF VOLCANO CLIFFS UNIT 7 BEAUMONT

City Address: 6004 SIERRA LINDA AVE NW ALBUQUERQUE NM 87120

Applicant: LUNA HOME BUILDERS, LLC Contact: JUAN OR EVA LUNA

Address: 2740 S. SADDLER ST DEMING NM 88030

Phone#: (575) 494-0969 Fax#: _____ E-mail: LUNA88030@

Owner: John LUNA Contact: 575 494-2461 MSN.COM

Address: 601 MENAUL BLVD NE #2403 ALBUQUERQUE NM 87107

Phone#: 575 494-2461 Fax#: _____ E-mail: TLUNA575@Gmail.com

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:

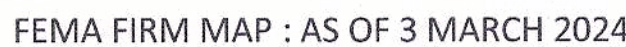
- ☐ BUILDING PERMIT APPROVAL
- ☐ CERTIFICATE OF OCCUPANCY
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ SITE PLAN FOR SUB'D APPROVAL
- ☐ SITE PLAN FOR BLDG. PERMIT APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ SIA/ RELEASE OF FINANCIAL GUARANTEE
- ☐ FOUNDATION PERMIT APPROVAL
- ☒ GRADING PERMIT APPROVAL
- ☐ SO-19 APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ GRADING/PAD CERTIFICATION
- ☐ WORK ORDER APPROVAL
- ☐ CLOMR/LOMR
- ☐ FLOODPLAIN DEVELOPMENT PERMIT
- ☒ OTHER (SPECIFY) Grading + Drainage Plan Approval

DATE SUBMITTED: 3-19-24 By: EVA LUNA

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____



DISCHARGE AREAS

PEAK DISCHARGE RATE PROPOSED

PEAK DISCHARGE RATE HISTORIC

HISTORIC:

CALCULATIONS:

PROPERTY IS LOCATED IN PRECIPITATION ZONE 1, PER TABLE 6.2.7, DPM 2020.

$$Q_p = A_1 \cdot B + A_2 \cdot A + A_3 \cdot D + A_4 \cdot A$$

A# = MEASURED AREA

A = 1.54
B = 2.16

D = 4.12
A B ANI

TREATM

$$\Rightarrow Q_{A1} = A1 * B = 0.01178 \text{ acres} \times 2.16 \text{ cfs/acre} = 0.025 \text{ cfs}$$

$$f(x) = \begin{cases} 0 & \text{if } x \in \mathbb{Q} \\ 1 & \text{if } x \notin \mathbb{Q} \end{cases}$$

$$\text{WEIGHTED} = (-0.5) \cdot (-0.5) + (-0.5) \cdot (-0.5) + (-0.5) \cdot (-0.5) + (-0.5) \cdot (-0.5) = 2.0$$

= 1.217 INCHES

$$V360 = \text{WEIGHTED E* (A(A) + A(B) + A(C)+A(D)) / 12} = 0.02934 \text{ ACRE-FEET}$$

BOND VOLUME REQUIRED:

DEPTH AT 100-YEAR, 6-HOUR STORM: P(360)= 2.15 INCHES
10 DAY STORM: P(10DAY)= 3.00 INCHES

PROPOSED

$$V(10\text{DAT}) = V(300) + A(D) \cdot (F(10\text{DAT}) - F(300)) / (12\text{mm}/t)$$

$$= 0.02934 + 0.11297 \cdot (3.88 - 2.15) / 12$$

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

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

CITY OF ALBUQUERQUE HYDROLOGY SECTION REVIEW



City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (DTIS)

Project Title: _____ Hydrology File # _____

Legal Description: _____

City Address, UPC, OR Parcel: _____

Applicant/Agent: _____ Contact: _____

Address: _____ Phone: _____

Email: _____

Applicant/Owner: _____ Contact: _____

Address: _____ Phone: _____

Email: _____

(Please note that a DFT SITE is one that needs Site Plan Approval & ADMIN SITE is one that does not need it.)

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

RE-SUBMITTAL: YES NO

DEPARTMENT: TRANSPORTATION HYDROLOGY/DRAINAGE

Check all that apply under Both the Type of Submittal and the Type of Approval Sought:

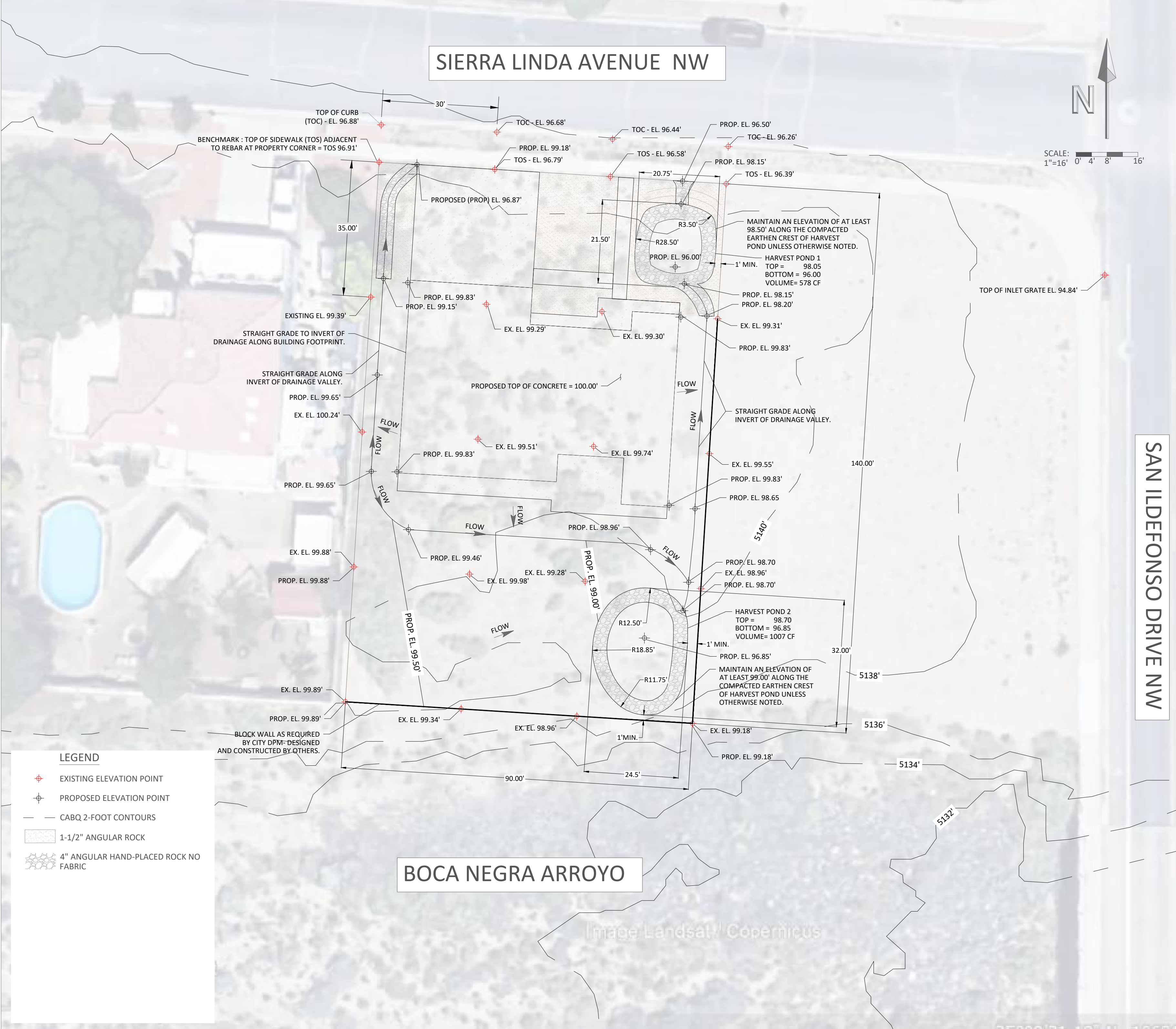
TYPE OF SUBMITTAL:

ENGINEER/ARCHITECT CERTIFICATION
PAD CERTIFICATION
CONCEPTUAL G&D PLAN
GRADING & DRAINAGE PLAN
DRAINAGE REPORT
DRAINAGE MASTER PLAN
CLOMR/LOMR
TRAFFIC CIRCULATION LAYOUT (TCL)
ADMINISTRATIVE
TRAFFIC CIRCULATION LAYOUT FOR DFT
APPROVAL
TRAFFIC IMPACT STUDY (TIS)
STREET LIGHT LAYOUT
OTHER (SPECIFY) _____

TYPE OF APPROVAL SOUGHT:

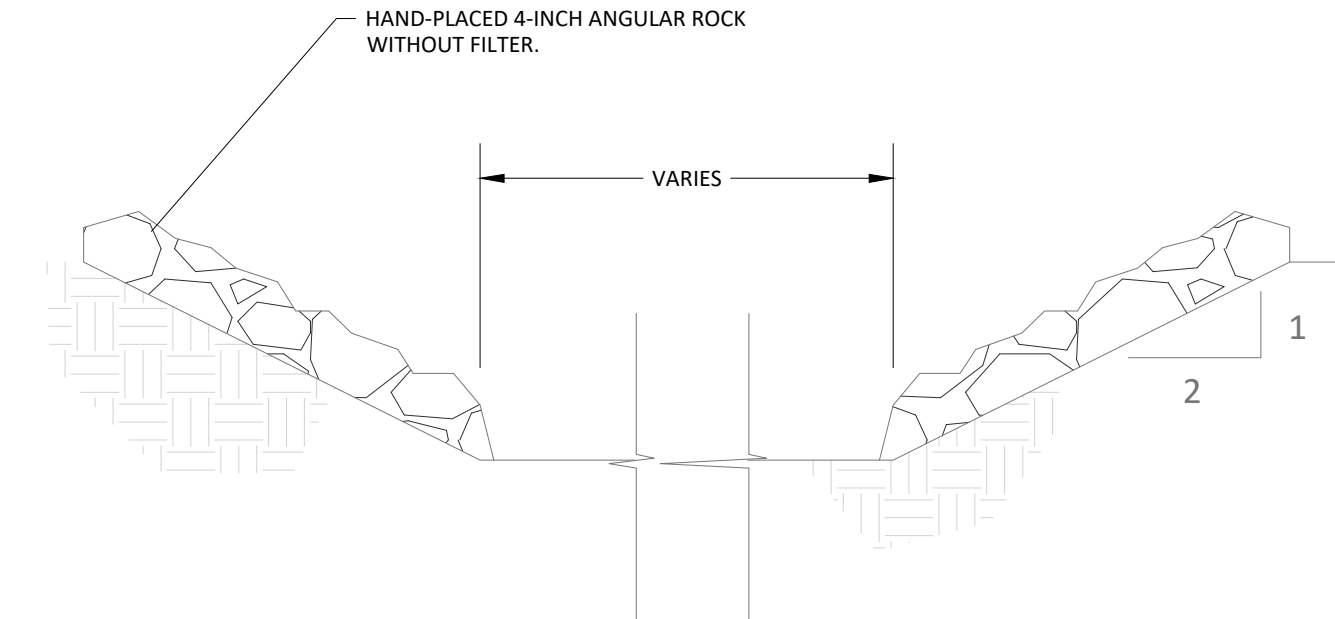
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CERTIFICATE OF OCCUPANCY
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SIA/RELEASE OF FINANCIAL GUARANTEE
FOUNDATION PERMIT APPROVAL
GRADING PERMIT APPROVAL
SO-19 APPROVAL
PAVING PERMIT APPROVAL
GRADING PAD CERTIFICATION
WORK ORDER APPROVAL
CLOMR/LOMR
OTHER (SPECIFY) _____

DATE SUBMITTED: _____



GENERAL NOTES:

- 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 IF DRAINAGE PLAN MODIFICATION IS REQUIRED.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING A PERMIT FOR TOPSOIL DISTURBANCE BEFORE WORK COMMENCES.
- 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.
- IT IS RECOMMENDED THAT OWNER UTILIZE GEOTECHNICAL SERVICES TO DETERMINE SOIL BEARING CAPACITY AND CLASSIFICATION FOR FOUNDATION EVALUATION.
- 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.
- NO SLOPES INCLUDED IN THIS WORK MAY BE STEEPER THAN 3-FOOT-HORIZONTAL TO 1-FOOT-VERTICAL.
- PAD CERTIFICATION MUST BE COMPLETE ONCE ALL GRADING HAS BEEN PERFORMED AND WILL BE INCORPORATED INTO THIS PLAN AND SUBMITTED SEPARATELY.
- AVOID IRRIGATION WITHIN 10 FEET OF STRUCTURE.
- 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.



A HARVEST POND SECTION

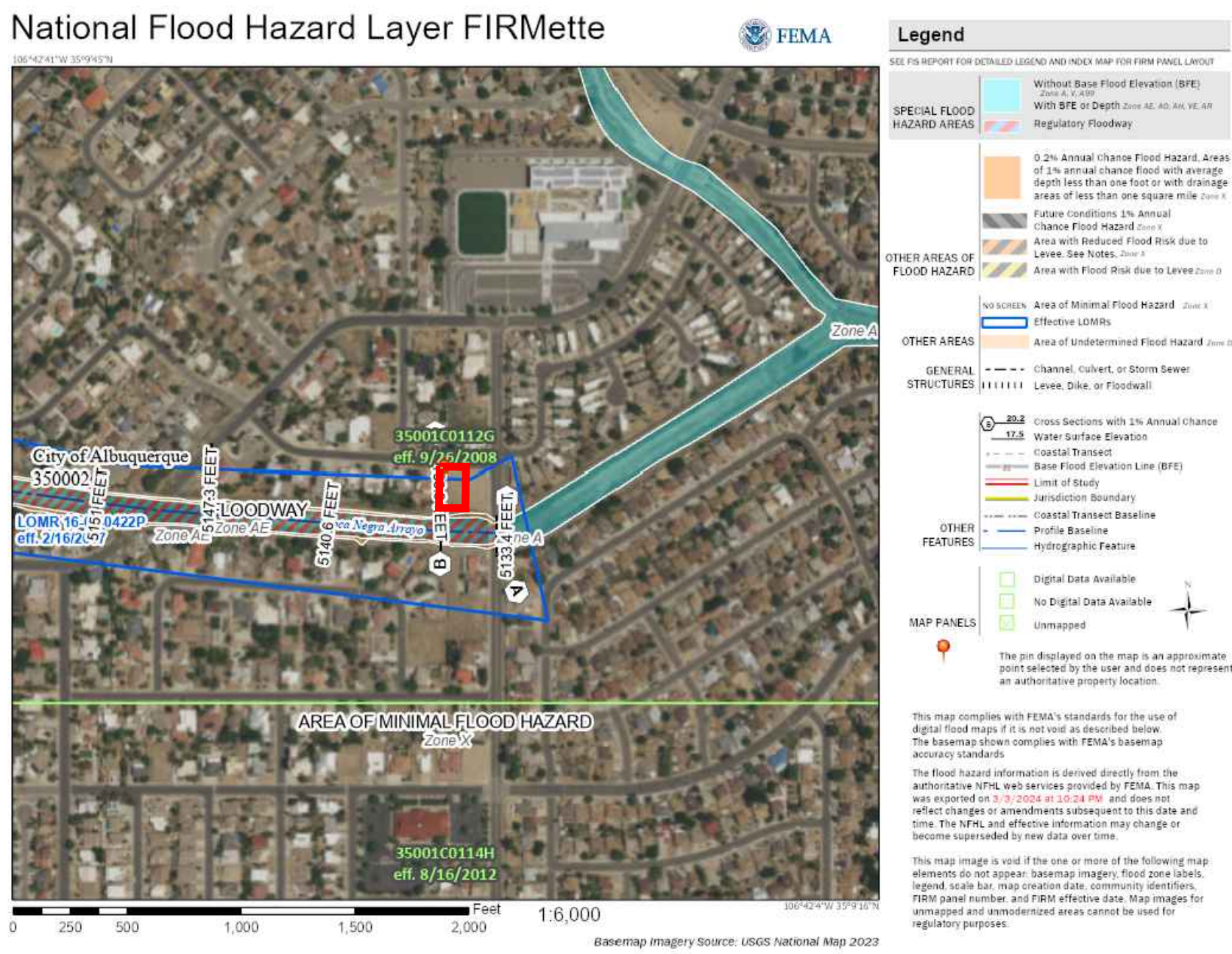
DRAINAGE CERTIFICATION:

I JOSHUA ELLISON, NMPE 25772, OF ARTEX LLC, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED GRADING AND DRAINAGE PLAN DATED 3 APRIL 2024. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR PAD CERTIFICATION.



9 April 24

CITY OF ALBUQUERQUE HYDROLOGY SECTION REVIEW



FEMA FIRM MAP : AS OF 3 MARCH 2024



For more details about the Integrated Development Ordinance visit: <http://www.cabq.gov/planning/codes-policies-regulations/integrated-development-ordinance>

VICINITY MAP : ZONE ATLAS SHEET E-11-Z



ARTEX LLC
artistic engineering solutions

14008 Arcadia Rd NE
Albuquerque, NM 87123

GRADING AND DRAINAGE PLAN
FOR
6004 SIERRA LINDA AVENUE NORTHWEST
ALBUQUERQUE, NM 87120

LOT 11, BLOCK 6
VOLCANO CLIFFS
RESIDENTIAL
SHEET 1 OF 1

DRAWING BY: J. ELLISON
DATE: MARCH 2024
REVISED: