

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

April 11, 2023

James P. Lopez, P.E.
JPL Engineering Inc.
6725 S. Eastern Avenue, Ste. 5
Las Vegas, NV 89119

RE: 3401 Calle Vigo NW
Grading and Drainage Plan
Engineer's Stamp Date: 03/27/23
Hydrology File: H12D003A1

Dear Mr. Lopez:

Based upon the information provided in your submittal received 04/03/2023, the Grading and Drainage Plan is approved for Building Permit and Grading Permit. **Since this project site is relatively flat, a pad certification is not needed for this project.** Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

PRIOR TO CERTIFICATE OF OCCUPANCY:

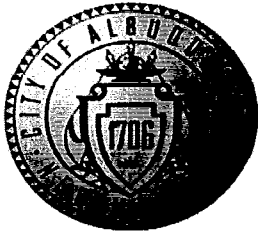
1. Engineer's Certification, per the DPM Part 6-14 (F): Engineer's Certification Checklist For Non-Subdivision is required.

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

Sincerely,

Renée C. Brissette

Renée C. Brissette, P.E. CFM
Senior Engineer, Hydrology
Planning Department



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 10/2018)

Project Title: 3401 CALLE VIGO NW LIMA RESIDENCE **Building Permit #:** _____ **Hydrology File #:** H12D003A1
DRB#: _____ **EPC#:** _____ **Work Order#:** _____
Legal Description: LOT NUMBERED ELEVEN (11) OF THE PLAT OF RIVERVIEW ACRES UNIT 2 ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO
City Address: 3401 CALLE VIGO NW

Applicant: EDIDSON LIMA **Contact:** (505) 238-2853
Address: 2514 PALOMAS DR NE, ALBUQUERQUE NM, 87110-4038
Phone#: (505) 238-2853 **Fax#:** _____ **E-mail:** ERLIMA@SANDIA.GOV

Other Contact: _____ **Contact:** _____
Address: _____
Phone#: _____ **Fax#:** _____ **E-mail:** _____

TYPE OF DEVELOPMENT: _____ 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) _____

DATE SUBMITTED: 3/27/23

By: _____

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

**ADDENDUM 1
TECHNICAL DRAINAGE STUDY**

FOR

**3401 CALLE VIGO
LIMA RESIDENCE
H12D003A1**

@

**LOCATED NW CORNER OF
CALLE ASTINO AND CALLE VIGO**

JPL Job No. 21-002

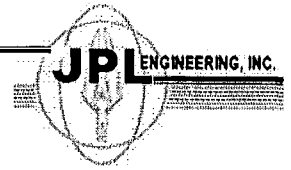
Prepared for:

**LIMA EDIDSON R & PADILLA-LIMA VICTORIA M
2514 PALOMAS DR NE
ALBUQUERQUE, NM 87110-4038**

Prepared by:

**JPL Engineering, Inc.
6725 South Eastern Ave., Ste. 5
Las Vegas, Nevada 89119
Phone: 702-898-6269
Fax: 877-557-8292**

March, 2023



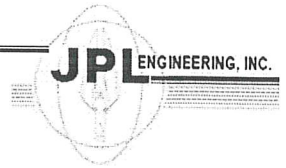
March 13, 2023

Renee C Brissette, P.E. CFM
Senior Engineer, Hydrology
Planning Department
PO Box 1293
Albuquerque, NM 87103

**RE: ADDENDUM 1- TO THE TECHNICAL DRAINAGE STUDY FOR 11674 STARDUST DRIVE
LOT 51 (PW23-11151)**

The response to comments in a letter dated February 28, 2023 CCPW Development Division Flood Control is included below. Please refer to a copy of the comment letter that is included at the back of the text.

- | | |
|-----------------|--|
| Comment | <p>1.- Since this site is in the Valley region, please follow Article 6-5 Valley Drainage Criteria of the DPM. The following conditions must be applied to the site:</p> <ul style="list-style-type: none">a. The maximum percent impervious of the lot and the contributing area may not be greater than 45%b. Pad elevation shall be a minimum of one (1) foot above the 100 year 10-day stormwater surface elevation.c. The flow between the front yard and back yard cannot be obstructed. The stormwater must be allowed to equalize to the same level between the front yard and back yard.d. A permanent perimeter wall or barrier around the development is require to contain the 100-year 24-hour storm developed runoff |
| Response | <ul style="list-style-type: none">a. The proposed house pad will be 6634 SF which is approximately 1,000 SF larger than the pad of the previously approved Master Plan for the lot. The roadway area has been revised from the original to match the current day survey. The total impervious area is calculated using the house pad size (6663 SF) and the roadway area (5595 SF) which results in a total impervious area of 11998 SF. This area is less than the 45% max. The total impervious area for the lot would be less than 45%.b. The house FF elevation was determined using the water surface elevation from the previously approved Master Plan for Lot 15. The water surface elevation for Lot 15 is 4953.50'. This was used to determine the relative height difference between the WSL and the bottom of the pond. The difference is 1.7'. The minimum FF for the building is 4960.29' which is lower than the proposed FF.c. Two additional retention ponds have been added to the front of the building. The ponds are now connected with pipes that allow the stormwater to equalize.d. A wall is proposed around the site in order to protect the adjacent area from the storm developed runoff. |



Comment 2.- According to the approved Master Grading Plan, this site has a maximum pad size of 5,596 SF and required retention pond volume of 0.279 AC-FT or 12,153.22 CF. This design will have to be revised to accommodate this requirement. The site flows outside the Building Lines drains to the street(s) and the flows inside the Building Lines drains to the rear retention pond.

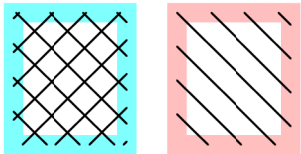
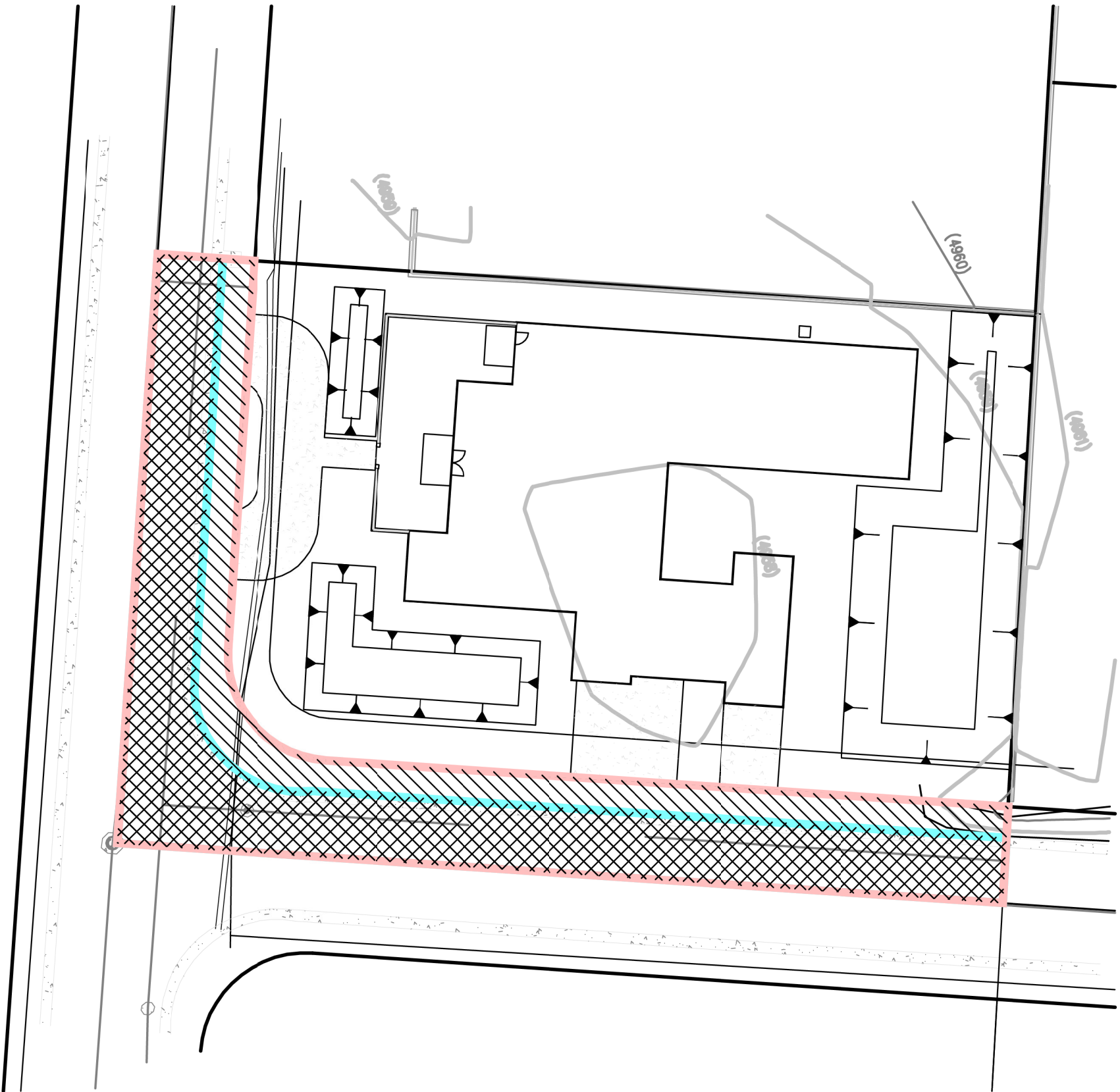
Response The house pad for this project is ± 6663 SF. The increase in house pad impervious area has been updated to determine the required retention pond volume. The new volume using the current DPM is 4648 CF required.

Please Contact JPL Engineering Inc. if you should have any further questions.

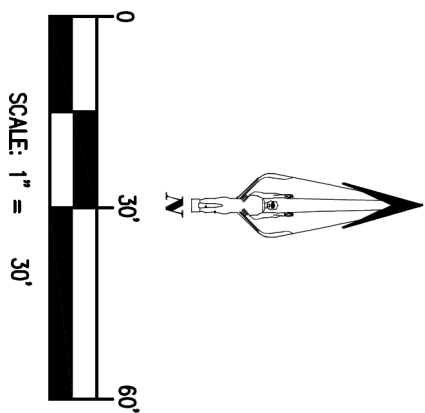
Sincerely,

A handwritten signature in blue ink, appearing to read "JPL Engineering Inc.", is written over the word "Sincerely,".

JPL Engineering Inc.



OLD NON-IMPERVIOUS AREA
ROADWAY AREA ± 7675
NEW NON-IMPERVIOUS AREA
ROADWAY AREA ± 5596



3401 CALLE VIGO NW LIMA RESIDENCE
ROADWAY AREA EXHIBIT

MARCH, 2023

JPL ENGINEERING INC.

6725 S. EASTERN AVE., STE. 5, LAS VEGAS, NV, 89119
PHONE (702) 898-6269 * FAX (877) 557-8292

National Flood Hazard Layer FIRMette



Legend

- SEE FIRM REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT
- SPECIAL FLOOD HAZARD AREAS**
- Without Base Flood Elevation (BFE)
 - With BFE or Depth Zone AE, AO, AH, VE, VE1, VE2
 - Regulatory Floodway
- OTHER AREAS OF FLOOD HAZARD**
- 0.2% Annual Chance Flood Hazard, Areas of 1% Annual Chance Flood with average depth less than one foot or with drainage areas of less than one square mile (Zone 1)
 - Future Conditions 1% Annual Chance Flood Hazard (Zone 2)
 - Area with Reduced Flood Risk due to Levee, See Notes, Zone X
 - Area with Flood Risk due to Levee (Zone D)
- OTHER AREAS**
- NO SCREEN: Area of Minimal Flood Hazard (Zone X)
 - Effective Limits
 - Area of Undetermined Flood Hazard (Zone D)
- GENERAL STRUCTURES**
- Channel, Culvert, or Storm Sewer
 - Levee, Dike, or Floodwall
- OTHER FEATURES**
- Cross Sections with 1% Annual Chance
 - Water Surface Elevation
 - Coastal Transient
 - Base Flood Elevation Line (BFE)
 - Limit of Study
 - Jurisdiction Boundary
 - Profile Baseline
 - Hydrographic Feature
- MAP PANELS**
- Digital Data Available
 - No Digital Data Available
 - Unmapped

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The base map shown complies with FEMA's base map accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 12/1/2024 at 8:47 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: base map imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unimproved areas cannot be used for regulatory purposes.

						100-YEAR, 6-HR	100-YR,10DAY					
BASIN NAME/ CONCENTRATION POINT	AREA (ACRES)	TREATMENT A (%) (ACRES)	TREATMENT B (%) (ACRES)	TREATMENT C (%) (ACRES)	TREATMENT D (%) (ACRES)	WEIGHTED E (IN)	VOLUME (AC-FT)	VOLUME (AC-FT)				
PROP SITE+ROAD	0.622	0	0	56	0.3483	0	0	44	0.2737	1.4732	0.0764	0.1064

EQUATIONS:
WEIGHTED E = $E_a \cdot A_a + E_b \cdot A_b + E_c \cdot A_c + E_d \cdot A_d$ / (TOTAL AREA)
VOLUME = WEIGHTED E * TOTAL AREA
FLOW = $Q_a \cdot A_a + Q_b \cdot A_b + Q_c \cdot A_c + Q_d \cdot A_d$

WHERE FOR 100-YEAR, 6-HOUR STORM (ZONE2)

$E_a = 0.62$ $Q_a = 1.56$
 $E_b = 0.80$ $Q_b = 2.28$
 $E_c = 1.03$ $Q_c = 3.14$
 $E_d = 2.33$ $Q_d = 4.70$

WHERE PRECIPITATION FOR 100-YEAR STORM 10 DAY (ZONE2)

$P_{100} = 2.290$
 $P_{100F} = 3.620$

WHERE PRECIPITATION FOR 100-YEAR STORM 10 DAY (ZONE2)

$V_{100F} = V_{360} + Ad \cdot (P_{100F} - P_{360}) / 12 \text{ (in/ft)}$

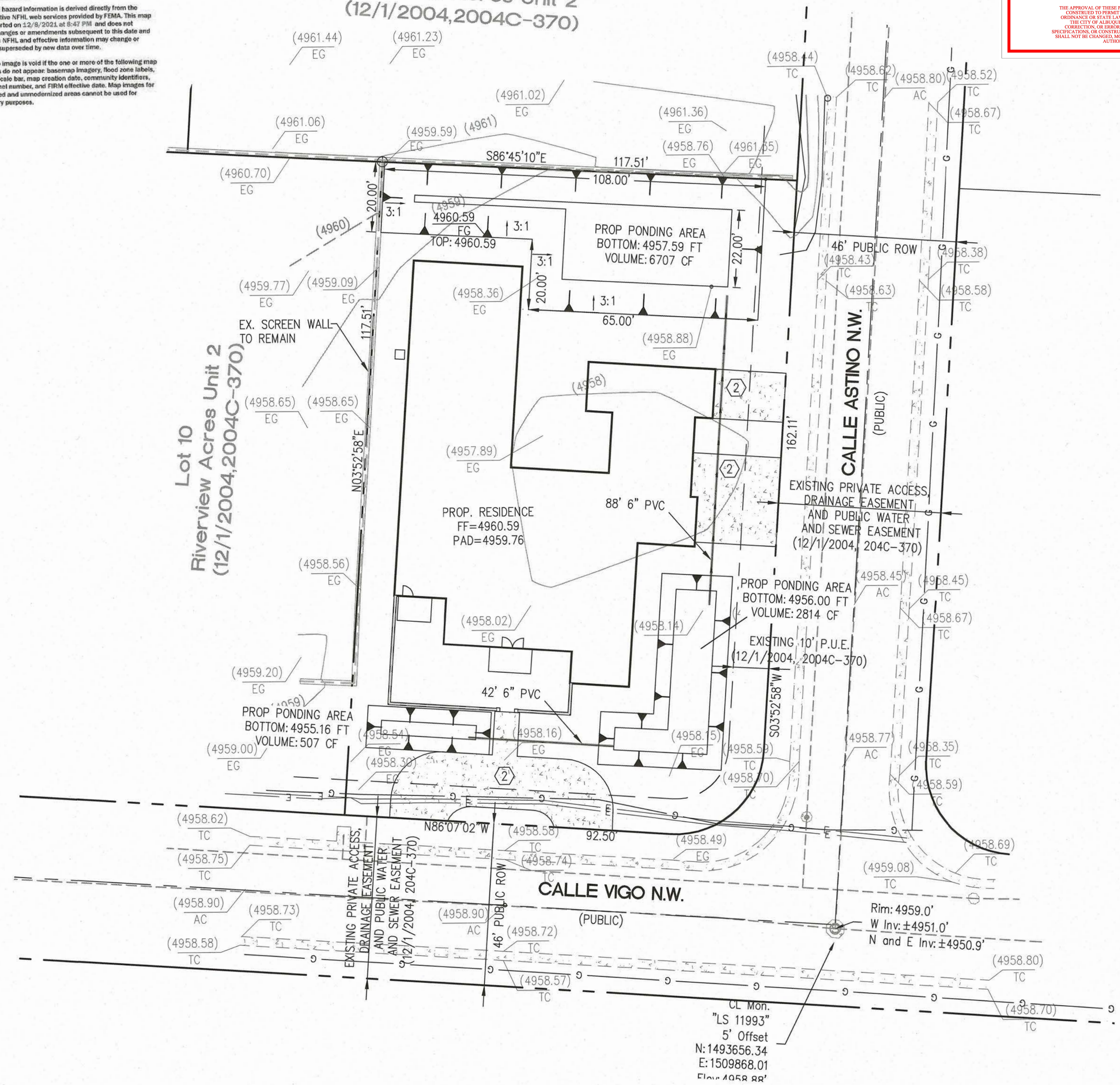
DEVELOPED CONDITIONS

TOTAL VOLUME

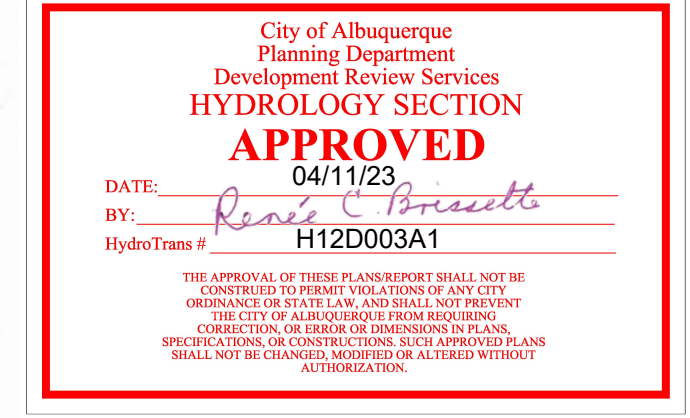
PROPOSED DISCHARGE 4647.58
REQUIRED SW STORAGE 4648.00
PROVIDED SW STORAGE 10028.00

THIS SITE IS IN AN EXISTING SUBDIVISION WITH A PREVIOUSLY COMPLETED DRAINAGE REPORT H120003. THE FF IS MORE THAN 1' HIGHER THAN THE CENTERLINE AND THE ON-SITE GENERATED RUNOFF AND 1/2 ROADWAY 100-YEAR 24-HOUR VOLUME WILL BE RETAINED ON SITE IN THE PROPOSED PONDING AREA.

Lot 12
Riverview Acres Unit 2
(12/1/2004, 2004C-370)



- CONTRACTOR SHALL VERIFY EXISTING ELEVATION AND MATCH EXISTING GRADE. IF ANY DISCREPANCIES NOTIFY ENGINEER.
- PROPOSED CONCRETE DRIVEWAY PER ARCHITECTURAL PLANS



EXISTING	PROPOSED
CENTERLINE	CENTERLINE
PROPERTY LINE	PROPERTY LINE
SECTION LINE	SECTION LINE
CURB & GUTTER	CURB & GUTTER
GRADE BREAK LINE	GRADE BREAK LINE
EDGE OF PAVEMENT	EDGE OF PAVEMENT
SETBACK LINE	SETBACK LINE
CONCRETE	CONCRETE
SCREEN WALL	SCREEN WALL
FIRE HYDRANT	FIRE HYDRANT
WATER VALVE	WATER VALVE
CONTOUR W/ ELEVATION	CONTOUR W/ ELEVATION
GRADES	GRADES
ASPHALT	ASPHALT
SAWCUT	SAWCUT
SEWER MANHOLE	SEWER MANHOLE
P.A.E. GRANTED PER MSW	P.A.E. GRANTED PER MSW
5' UTILITY AND DRAINAGE EASEMENT LINE GRANTED PER MSW	5' UTILITY AND DRAINAGE EASEMENT LINE GRANTED PER MSW
SIGHT VISIBILITY ZONE (SVZ)	SIGHT VISIBILITY ZONE (SVZ)
SAWCUT REMOVE, REPLACE ASPHALT	SAWCUT REMOVE, REPLACE ASPHALT
SLOPE TIE	SLOPE TIE

ABBREVIATION		
C/L CENTER LINE	GB GRADE BREAK	PP POWER POLE
CONC. CONCRETE	LF LINEAR FEET	ROW RIGHT-OF-WAY
DW DRIVEWAY	L/S LANDSCAPE	S SOUTH
E EAST	MAX. MAXIMUM	TC TOP OF CURB
ELEC. ELECTRIC	NAP NOT A PART	TEL TELEPHONE
ESMT EASEMENT	MIN. MINIMUM	TW TOP OF WALL
ETC END TOP OF CURB	N NORTH	W WEST
EX. EXISTING	NTS NOT TO SCALE	WL WALL
FF FINISH FLOOR	PL PROPERTY LINE	O.R. OFFICIAL RECORD
FG FINISH GRADE		

ENGINEER	OWNERS/DEVELOPER
JPL ENGINEERING, INC. 6725 S. EASTERN AVENUE, STE. 5 LAS VEGAS, NEVADA 89119 CONTACT: JAMES P. LOPEZ, P.E. PHONE: 702-898-6269 EMAIL: JAMES@JPLENGINEERINGINC.COM	LIMA EDISON R. & PADILLA-LIMA VICTORIA M 2514 PALOMAS DR NE ALBUQUERQUE, NM, 87110-4038 CONTACT: EDISON RODOLFO PHONE: (505) 238-2853 EMAIL: ERLIMA@AOL.COM

LEGAL DESCRIPTION
LOT NUMBERED ELEVEN (11) OF THE PLAT OF RIVERVIEW ACRES UNIT 2, ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT THEREOF, FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON DECEMBER 1, 2004.

BENCHMARK-NAVD 88:
ACS MONUMENT 7-1113 HAVING AN ELEVATION OF 4954.354. FIELD SURVEY PERFORMED IN JULY 2021

- GENERAL NOTES**
- CONTRACTOR SHALL NOTIFY ENGINEER IF THERE ARE ANY GRADING DISCREPANCIES PRIOR TO BEGINNING WORK.
 - JPL ENGINEERING, INC. ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITIES SHOWN OR NOT SHOWN. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM RECORD INFORMATION AND ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY BOTH THE HORIZONTAL AND VERTICAL LOCATION OF ALL RELEVANT UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF A CONFLICT OR DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IMMEDIATELY.
- EROSION CONTROL NOTES**
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
 - CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
 - CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY
 - REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
 - ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT

JPL ENGINEERING INC.

3401 CALLE VIGO NW
LIMA RESIDENCE

DRAINAGE + GRADING PLAN



JOB# 21-032
SHEET

GP

1 OF 1

6725 S. EASTERN AVENUE STE. 5 LAS VEGAS, NV 89119
PHONE (702) 898-6269 FAX (702) 650-6260

MARCH, 2023

3/27/23