

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

August 4, 2023

Jackie McDowell
McDowell Engineering, Inc.
7820 Beverly Hills Ave. NE
Albuquerque, NM 87122

**RE: 2 Alikhani, Naser – Home
1200 Hideaway Lane SE
Permanent C.O. – Accepted
Engineer's Certification Date: 07/31/23
Engineer's Stamp Date: 09/21/21
Hydrology File: M23D017A**

Dear Ms. McDowell:

PO Box 1293

Based on the Certification received 08/03/2023 and site visit on 08/04/2023, this letter serves as a "green tag" from Hydrology Section for a Permanent Certificate of Occupancy to be issued by the Building and Safety Division.

Albuquerque

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

NM 87103

Sincerely,

www.cabq.gov

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 11/2018)

Project Title: Alikhani, Naser - Home **Building Permit #:** **Hydrology File #:** M23D017A
DRB#: **EPC#:** **Work Order#:**
Legal Description: LOT 6, PLAT OF LOTS 1-6, FOUR HILLS VILLAGE 21ST INSTALLMENT
City Address: 1200 HIDEAWAY LN. SE, ALBUQUERQUE, NM 87123

Applicant: MCDOWELL ENGINEERING, INC. **Contact:** JACKIE MCDOWELL
Address: 7820 BEVERLY HILLS AVE. NE, ALBUQUERQUE, NM 87122
Phone#: 505-828-2430 **Fax#:** 505-821-4857 **E-mail:** jackmcdowell@comcast.net
Owner: Naser Alikhani **Contact:** Naser Alikhani
Address: 13816 Winterwood Way SE, Albuquerque, NM 87123
Phone#: 505-681-9181 **Fax#:** **E-mail:** khanicompany@aol.com

TYPE OF SUBMITTAL: PLAT (# OF LOTS) X RESIDENCE DRB SITE ADMIN SITE

IS THIS A RESUBMITTAL?: Yes X No

DEPARTMENT: TRAFFIC/ TRANSPORTATION X HYDROLOGY/ DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

X 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
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
 FLOODPLAIN DEVELOPMENT PERMIT
 OTHER (SPECIFY)

DATE SUBMITTED: 7-31-23 **By:** JACKIE MCDOWELL

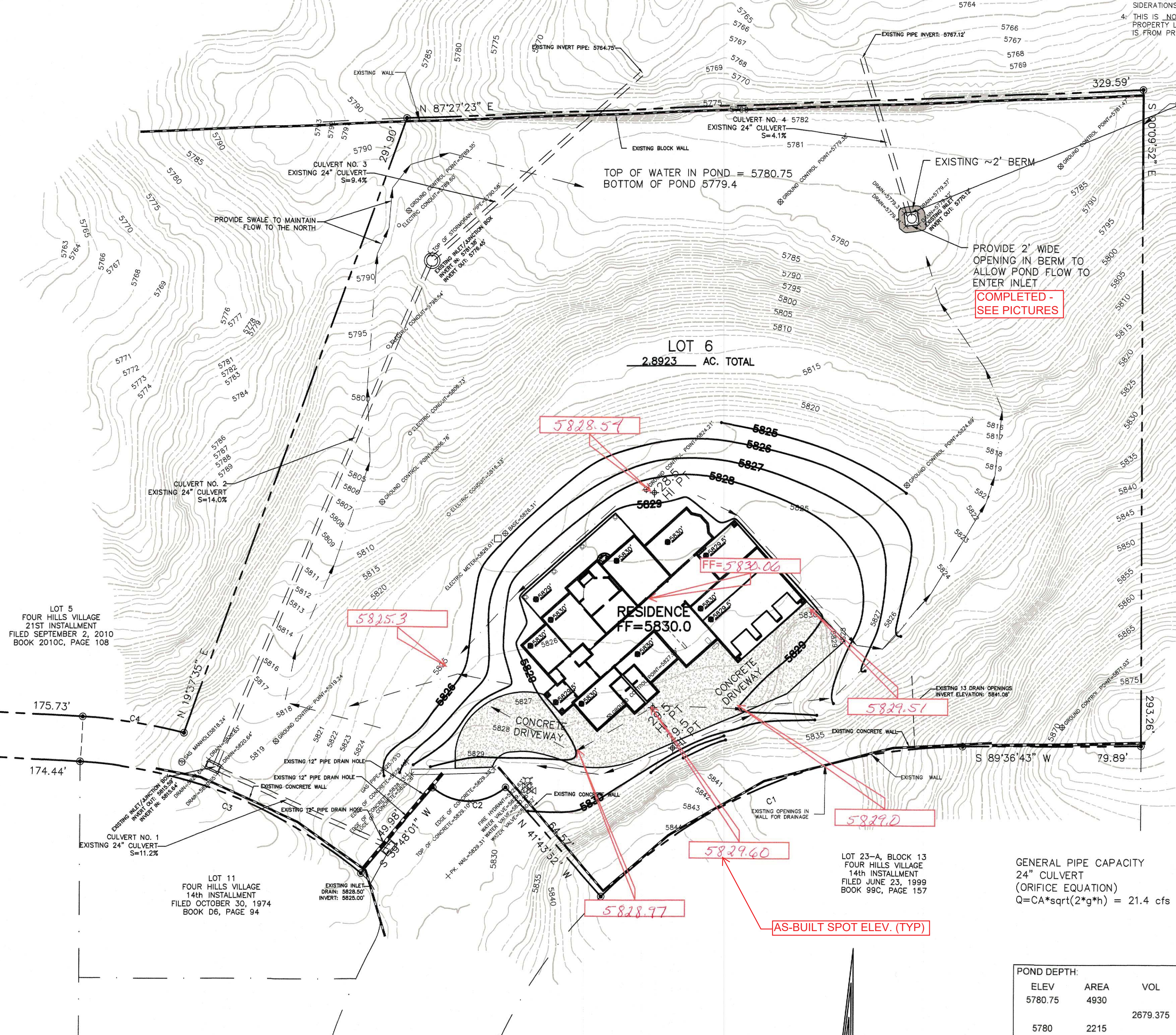
COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED:

FEE PAID:

LINE TABLE		
LINE	BEARING	DISTANCE
L1	S 02°17'56" E	20.09'

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	229.65'	179.49'	174.58'	S 87°13'17" W	44°46'52"
C2	25.00'	35.45'	32.55'	S 89°45'38" W	81°14'03"
C3	215.35'	137.50'	135.17'	N 68°37'28" W	36°34'55"
C4	235.35'	145.86'	45.89'	S 81°19'14" E	11°11'24"



GENERAL DRAINAGE PLAN NOTES:

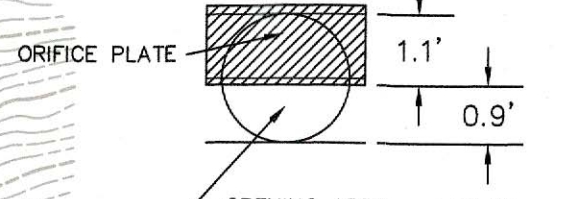
- It is recommended that the Owner obtain a Geotechnical Evaluation of the on-site soils prior to foundation/structural design.
- This plan recommends positive drainage away from all structures to prohibit ponding of runoff adjacent to the structure. Future alterations of the grades next to the structures are not recommended.
- Irrigation within 10 feet of any proposed structure is not recommended. Irrigation water adjacent to the structures could cause settlement.
- This plan establishes on-site drainage and assumes no responsibility for subsurface analysis, foundation or structural design, or utility design.
- Local codes may require all footings to be placed in natural undisturbed soil. If the contractor plans to place footings on engineered fill, a certification by a registered Professional Engineer is recommended.
- It is recommended that the Owner obtain the services of a Geotechnical Engineer to test and inspect all earthwork aspects of the project.
- The property boundary shown on this plan is given for information only to describe the project limits. Property boundary information shown hereon does not constitute a boundary survey.
- All work shall be constructed in accordance with the City of Albuquerque Standard Specifications for Public Works Construction with updates.
- All work on this project shall be performed in accordance with applicable Federal, State, and Local laws, rules, and regulations concerning construction safety and health.
- Contactors shall ensure that no site soils/sediment or silt enters the right-of-ways during construction.
- Areas disturbed due to construction shall be restored per City of Albuquerque Spec. 1012 native seed mix.

GRADING
6-11-21
1=30
AL10121L

SURVEY GENERAL NOTES:

- CONTOUR INTERVAL IS ONE (1) FOOT.
- ELEVATIONS ARE BASED ON CITY OF ALBUQUERQUE STATION No. "AGGIE", HAVING AN ELEVATION OF 5233.12', NAVD 1988
- UTILITIES SHOWN HEREON ARE IN THEIR APPROXIMATE LOCATION BASED ONLY ON ABOVE GROUND EVIDENCE FOUND IN THE FIELD AND AS-BUILT INFORMATION PROVIDED BY THE CLIENT. UTILITIES SHOWN HEREON, WHETHER INDICATED AS ABANDONED OR NOT, SHALL BE VERIFIED BY OTHERS FOR EXACT LOCATION AND/OR DEPTH PRIOR TO EXCAVATION OR DESIGN CONSIDERATIONS.
- THIS IS NOT A BOUNDARY SURVEY. APPARENT PROPERTY CORNERS AND PROPERTY LINES ARE SHOWN FOR INFORMATION ONLY. BOUNDARY DATA SHOWN IS FROM PREVIOUS SURVEY REFERENCE HEREON

PROVIDE 2.5' X 1.5' ORIFICE PLATE AT EXISTING 24" CULVERT, OAE TO ACHIEVE AN OPENING AREA OF 1.4 SF OR LESS



COMPLETED - SEE PICTURES

COMPLETED - SEE PICTURES

DRAINAGE PLAN

SCOPE:

The Drainage Plan shown hereon outlines the drainage management criteria for controlling developed runoff on and exiting the project site. One single family home is proposed on the subject property, with associated access, landscaping, and utility improvements.

EXISTING CONDITIONS:

Presently, the 2.89 acre site is undeveloped. The site is bounded on the west and south by private residential property, on the north and east by city property and on south by Hideaway Ln. SE. The site is vegetated with native grasses and shrubs and rock. Site topography slopes from the center of the lot to the north to an existing depression/pond. As shown on FEMA Panel #386G, the site is not located in a flood plain.

PROPOSED CONDITIONS:

As shown by the plan, the proposed structure is located within the center portion of the lot. Flows from the south, and east will continue to cross the site as currently flowing as shown on the plan. On site flows will drain around the structures via swales and flow to the north to the existing pond along the northerly of the lot. All roof drainage will discharge from the roof to the lot and be directed around the structures to existing drainage paths and new ponding area. The amount of runoff due to development will be retained on site in the existing pond as shown.

CALCULATIONS:

The calculations shown hereon define the 100 year-6 hour design storm falling within the project area under existing and developed conditions

PROPERTY ADDRESS:

1200 Hideaway Ln SE, Albuquerque, NM 87123

TOPOGRAPHY:

Topographic information provided by Anthon Harris, dated October 2020.

Precipitation Zone = 4

Depth at 100-year, 6-hour storm:

Land Treatments:

Areas: (acres)	Existing	Proposed
Treatment A	2.89	1.90
Treatment B	0.00	0.44
Treatment C	0.00	0.25
Treatment D	0.00	0.30
Total (acres) =	2.89	2.89

POND (EXISTING) VOLUME PROVIDED

ELEV	AREA	VOL
5782	12570	10108
5781	7646	
5780	2215	4930.5
SUB-TOTAL		15038.5 CF

Volume	100 year Existing	100 year Proposed	10 year Existing	10 year Proposed	2 year Existing	2 year Proposed
Volume (acre-feet) =	0.19	0.26	0.07	0.12	0.00	0.04
Volume (cubic feet) =	8,393	11,442	2,937	5,169	210	1,659

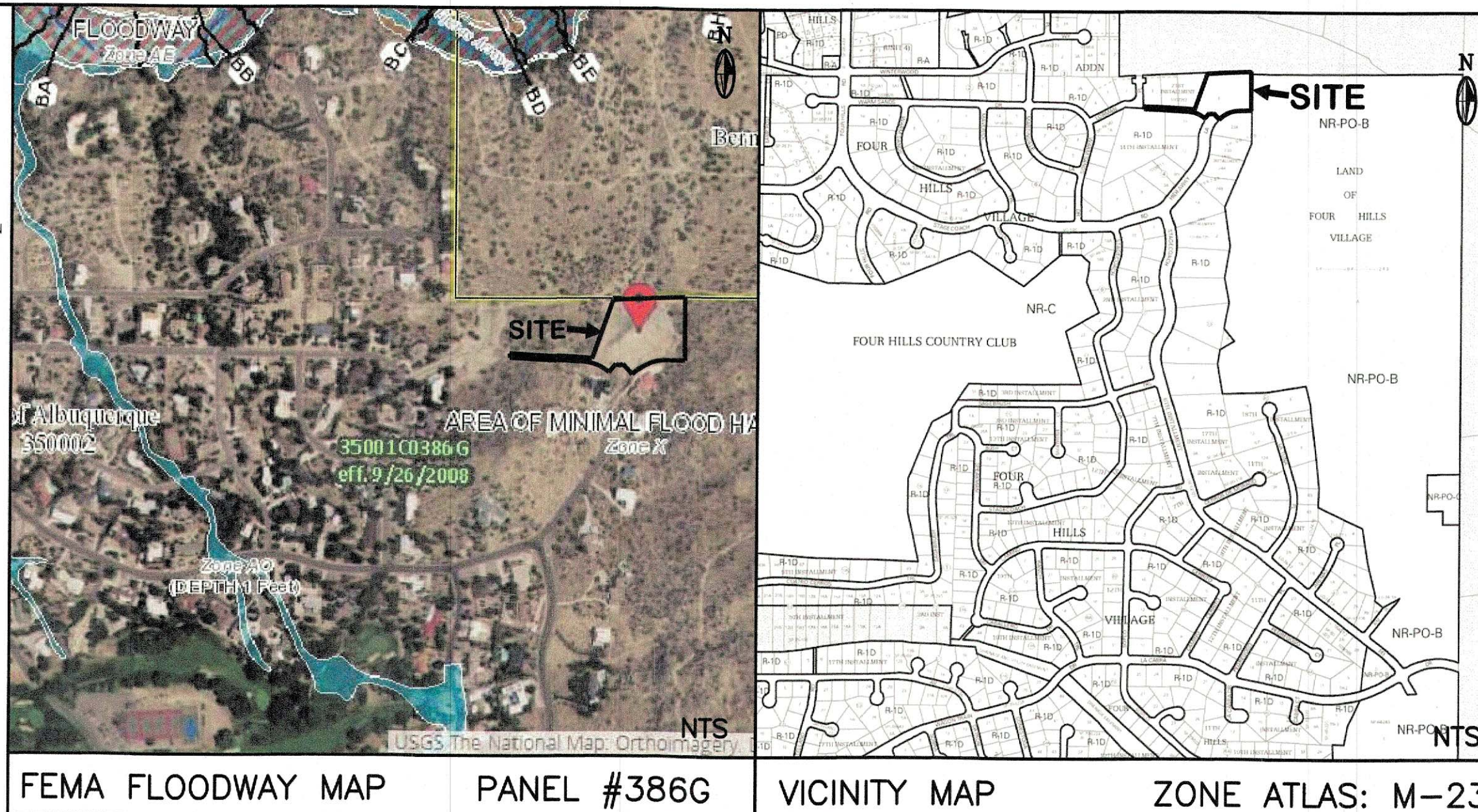
POND VOLUME REQUIRED = (11442-8393) = 3049 CF

OR = 14764-11442 = 3322 CF

FIRST FLUSH POND VOL = 0.34/12*0.3*43560 = 370 CF

Total Q(p), cfs:	100 year Existing Q(p)*A	100 year Proposed Q(p)*A	10 year Existing Q(p)*A	10 year Proposed Q(p)*A	2 year Existing Q(p)*A	2 year Proposed Q(p)*A
Treatment A	6.36	4.18	2.51	1.65	0.14	0.10
Treatment B	0.00	1.28	0.00	0.64	0.00	0.17
Treatment C	0.00	0.93	0.00	0.57	0.00	0.25
Treatment D	0.00	1.58	0.00	1.07	0.00	0.65
Total Q (cfs) =	6.36	7.97	2.51	3.93	0.14	1.16

$$\sqrt{(10 \text{ day}) = V (360) + A (D) * (P10\text{day}-P360)/12 \text{ in/ft} = 0.3389 \text{ ac-ft} = 14764 \text{ cu-ft}}$$

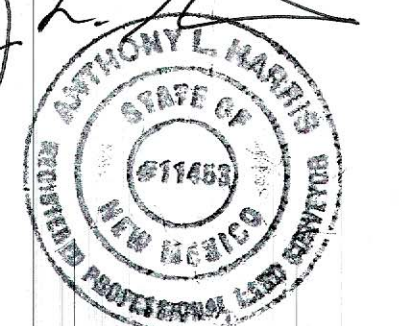


CERTIFICATE OF OCCUPANCY
DRAINAGE CERTIFICATION WITH SURVEY WORK BY PROFESSIONAL SURVEYOR

I, Jackie McDowell, NMPE #10903, of the firm McDowell Engineering, Inc., 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 plan dated 9-21-21. The record information edited onto the original design document has been obtained by the surveyor. I further certify that I have personally visited the project site on July 31, 2023 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 a request for Certificate of Occupancy. 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 the record document are advised to obtain independent verification of its accuracy before using it for any other purpose.

Elevations shown are based on field elevations taken on July 30, 2023

Anthony L. Harris
7-31-23



Jackie S. McDowell
Professional Engineer
6-21-21
REV. 8-17-21
REV. 9-21-21

7-31-23 ENGR CERT FOR CO

ENGINEER'S CERTIFICATION:
I, Jackie S. McDowell, hereby certify that I personally inspected the site shown on this plan on June 9, 2021, and as of that date it appeared that no filling, grading, or excavation had occurred thereon since completion of the topographic survey used to prepare this plan.

1200 Hideaway Ln SE, Albuquerque, NM 87123
CITY OF ALBUQUERQUE, BERNALILLO COUNTY NEW MEXICO

LOT 6
FOUR HILLS VILLAGE 21st INSTALLMENT

ALIKHANI, NASER - GRADING & DRAINAGE PLAN

McDowell Engineering, Inc.

Designed JSM Drawn STAFF Checked JSM Sheet 1 of 1
File AL10121L Date JUNE,2021