# CITY OF ALBUQUERQUE

Planning Department Alan Varela, Interim Director



Mayor Timothy M. Keller

August 8, 2022

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

### RE: Quality Builders – Lujan – 512 Tres Lagunas 512 Tres Lagunas Ln NE Grading and Drainage Plan Engineer's Stamp Date: 06/16/2022 Hydrology File: E16D016

Dear Ms. McDowell:

Based upon the information provided in your submittal received 07/06/2022, the Grading &<br/>Drainage Plan is approved for Grading Permit (earthwork can get started for the earth pad on the<br/>house).PO Box 1293Once the grading is complete, a pad certification (meaning that the earthwork is complete) will<br/>be required prior to release from Hydrology during the Building Permit process. Also, at the<br/>time of pad certification approval, Hydrology will concurrently approve the Grading & Drainage

NM 87103 As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Dough Hughes, PE, jhughes@cabq.gov, 924-3420) 14 days prior

www.cabq.gov

If you have any questions, please contact me at 924-3695 or <u>dggutierrez@cabq.gov</u> Sincerely,

DieGut

Plan for Building Permit.

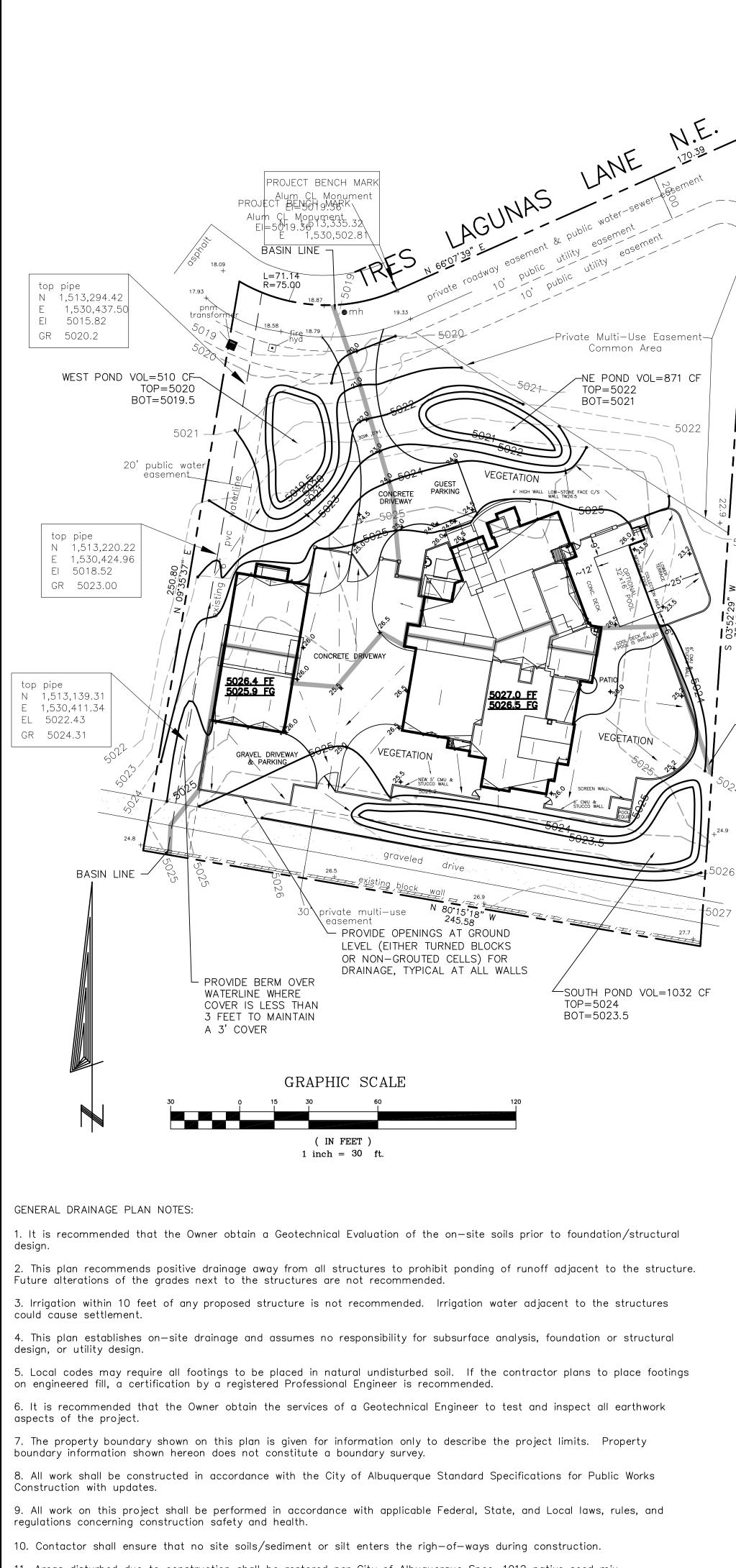
David G. Gutierrez, P.E. Senior Engineer, Hydrology Planning Department



## City of Albuquerque

Planning Department Development & Building Services Division DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: Quality Builders - Lujan - 512 Tres Lagunas	Building Permit #:	Hydrology File #:E16D016
DRB#:	EPC#:	Work Order#:
Legal Description: LOT 3, TRES LAGUNAS SUE	BDIVISION	
City Address: 512 TRES LAGUNAS LN NE ALBUG	UERQUE NM 87113	
Applicant: MCDOWELL ENGINEERING, INC.		Contact: JACKIE MCDOWELL
Address: 7820 BEVERLY HILLS AVE. NE		
Phone#: 505-828-2430	Fax#: 505-821-4857	E-mail: jackmcdowell@comcast.net
Other Contact: Mike Martinez, Quality Builders		Contact: Mike Martinez
Address: PO Box 951, Peralta, NM 87042		
Phone#: 505-869-9075	Fax#: 505-869-9085	E-mail: _qualitybldg@comcast.net
TYPE OF DEVELOPMENT: PLAT (		
IS THIS A RESUBMITTAL? X Yes	No	
DEPARTMENT TRANSPORTATION	X HYDROLOGY/DRAINAGE	
Check all that Apply: <b>TYPE OF SUBMITTAL:</b> PAD CERTIFICATION CONCEPTUAL G & D PLAN X GRADING PLAN DRAINAGE REPORT DRAINAGE MASTER PLAN FLOODPLAIN DEVELOPMENT PERMIT A ELEVATION CERTIFICATE CLOMR/LOMR TRAFFIC CIRCULATION LAYOUT (TCL) TRAFFIC IMPACT STUDY (TIS) STREET LIGHT LAYOUT OTHER (SPECIFY) PRE-DESIGN MEETING?	X BUILDING PER CERTIFICATE O PRELIMINARY SITE PLAN FO SITE PLAN FO FINAL PLAT A PPLIC SIA/ RELEASE FOUNDATION X GRADING PER SO-19 APPROV PAVING PERM GRADING/ PAI WORK ORDER A CLOMR/LOMR FLOODPLAIN I OTHER (SPECI	OF OCCUPANCY PLAT APPROVAL R SUB'D APPROVAL R BLDG. PERMIT APPROVAL APPROVAL OF FINANCIAL GUARANTEE PERMIT APPROVAL MIT APPROVAL /AL IIT APPROVAL D CERTIFICATION APPROVAL DEVELOPMENT PERMIT IFY)
DATE SUBMITTED: 6-17-22	•	
COA STAFF:	ELECTRONIC SUBMITTAL RECEIVED:	



11. Areas disturbed due to construction shall be restored per City of Albuquerque Spec. 1012 native seed mix.

### STANDARD GRADING NOTE: THE MAXIMUM GRADED SIDE SLOPE SHALL NOT EXCEED 3 FEET (HORIZONTALLY) TO 1 FOOT (VERTICALLY). AREAS DISTURBED BY GRADING WHICH WILL NOT BE TREATED WITH LANDSCAPING SHALL BE SEEDED.

PROPERTY LINE WALLS AND GARDEN WALLS SHALL HAVE TURNED BLOCKS FOR DRAINAGE. ALL OPENINGS IN THE WALLS SHALL BE 3" ABOVE GRADE, TYP.

STANDARD WALL AND PAD CERTIFICATION NOTES:

ALL PERMITER GARDEN WALLS SHALL BE PERMITTED SEPARATELY.

A PAD CERTIFICATION IS REQUIRED BEFORE THE BUILDING PERMIT IS RELEASED.

This is the plan to be used for any garden walls and any openings in the walls shall be placed 3" above final grade in the rear yard to allow for cross lot drainage from west to east (upstream to downstream).

### SURVEY NOTES

1) Elevations shown hereon are NAVD 88 values, GPS derived using OPUS Solution. All distances shown are ground. 2) Any underground structure is not a part of this survey.

- 3) Bearings and distances shown are based on the Plat of Record (2005C-Page 187). 4) This property is subject to pertinent easements, matters of zoning, covenants,
- restrictions and reservations of record. 5) This survey shows only those easements apparent on the ground and those disclosed by the Plat of Record. No title search was performed by the Surveyor.

### LEGAL DESCRIPTION

Lot numbered Three (3) of TRES LAGUNAS SUBDIVISION, 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 June 6, 2005 in Book 2005C, Page 187.

Note: Elevations in NAVD 88. Northings & Eastings are New Mexico State Plane (3002 NM C).

5023

### Pursuant to the latest City of Albuquerque and Bernalillo County Ordinances, the Drainage Plan shown hereon outlines the drainage management criteria for controlling developed runoff on and exiting the project site. This project includes a home with associated driveway, landscaping, and utilities. There is a master drainage plan for the site identified as "E16-D16\_TRES LAGUNAS SUBD\_PLANS\_No\_" in the City files which shows the required ponding locations and as-built conditions for the entire site. This plan includes water harvesting/first flush ponding for the site for best practices.

### EXISTING CONDITIONS:

DRAINAGE PLAN

SCOPE:

Presently, the 1.53 acre site is undeveloped but has been graded according to the master grading plan. The site is bounded on the east, south, and west by private property, and on the north by Tres Lagunas Lane NE. The site slopes from south to north. As shown on FEMA Panel #136G, dated September 26, 2008, the site is not located in a 100 year flood plain.

PROPOSED CONDITIONS:

As shown by the plan, the site will drain around the home to ponding areas and will mostly follow the existing grades. No off-site flows enter the site due to existing grades and walls on adjacent lots. Per the Master Grading & Drainage plan for Tres Lagunas Subdivision, the site is not required to have additional ponding, but First Flush ponding is provided for best practices.

Supplemental calculations are shown as part of this Grading and Drainage plan.

### 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:

512 TRES LAGUNAS LN NE ALBUQUERQUE NM 87113

TOPOGRAPHY:

Topographic information provided by Christopher Dehler, dated May 9, 2022.

							_											
Precipitation Zone = 2								Precipitation Zone	e = 2							٦	Precipitation Zon	ne = 2
WEST BASIN								NE BASIN				-					SOUTH BASIN	
Areas: (acres) POND VOLUME PROVIDED:				Areas: (acres)				]	POND VOLU		ED:		Areas: (acres)					
	Existing	Proposed		ELEV.	AREA	VOL. (CF)				Existing	Proposed		ELEV.	AREA	VOL. (CF)			
Treatment A	0.31	0.00		5020	1211			Treatment A		0.66	0.28		5022	1075			Treatment A	
Treatment B	0.00	0.15				510.75		Treatment B		0.00	0.15				871		Treatment B	
Treatment C	0.00	0.07		5019.5	832			Treatment C		0.00	0.07		5021	667			Treatment C	
Treatment D	0.00	0.09						Treatment D		0.00	0.16						Treatment D	
Total (acres) =	0.31	0.31			TOTAL	510.75			Total (acres) =	0.66	0.66			TOTAL	871			То
h ta huma		400	40	40		0	ח	balan		1400	100		40	16	0	1	b (a base	
Volume	100 year Existing	· ·			2 year Existing	2 year Proposed		Volume		100 year Existing	100 year Proposed	10 year Existing		2 year Existing	2 year Proposed		Volume	
		<u> </u>								<u> </u>		i <u> </u>					L	Valuma
Volume (acre-feet) =	0.014								Volume (acre-feet) =									Volume (
Volume (cubic feet) =	596	1,404	146	122		307	ונ		Volume (cubic feet) =	1,270	2,482	311	1,195		508			Volume (
FIRST FLUSH POND VOL = 0.34"/(12"/F	T)*(0.31 AC	* 43560 SF/A	C) = 383 CF					FIRST FLUSH POND VOL = 0.34"/(12"/FT)*(0.66 AC * 43560 SF/AC) = 815 CF						FIRST FLUSH P	POND VOL =			
Total Q(p), cfs:								Total Q(p), cfs:									Total Q(p), cfs:	
	100 year	100 year	10 year	10 year	2 year	2 year				100 year	100 year	10 year	10 year	2 year	2 year			
	Existing	Proposed	Existing	Proposed	Existing	Proposed				Existing	Proposed	Existing	Proposed	Existing	Proposed			
	Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A				Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A			
Treatment A	0.48	0.00	0.12	0.00	0.00	0.00		Treatment A		1.03	0.44	0.25	0.11	0.00	0.00		Treatment A	
Treatment B	0.00	0.34	0.00	0.14	0.00	0.01		Treatment B		0.00	0.34	0.00	0.14	0.00	0.01		Treatment B	
Treatment C	0.00	0.22	0.00	0.12	0.00	0.04		Treatment C		0.00	0.22	0.00	0.12	2 0.00	0.04		Treatment C	
Treatment D	0.00	0.42	0.00	0.28	0.00	0.17		Treatment D		0.00	0.75	0.00	0.50	0.00	0.30		Treatment D	
Total Q (cfs) =	0.48	0.98	0.12	0.54	0.00	0.22			Total Q (cfs) =	1.03	1.75	0.25	0.87	/ 0.00	0.35			To
							_									- 1		



## FEMA FLO

COA EROSION CONTROL NO 1. CONTRACTOR IS RESPO PERMIT PRIOR TO BEGINNI

2. CONTRACTOR IS RESPO CONSTRUCTION.

3. CONTRACTOR IS RESPO EXISTING RIGHT-OF-WAY.

4. REPAIR OF DAMAGED F ON ADJACENT PROPERTIES THE CONTRACTOR.

5. ALL EXPOSED EARTH S WATER EROSION PRIOR TO

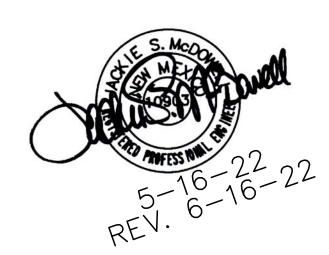
> EROSION AN PROVIDE SIL DOWNSTREA CONSTRUCTION TO PREVENT DEBRIS FROM ENTERING THE CITY STREET RIGHT-OF-WAY DURING CONSTRUCTION.

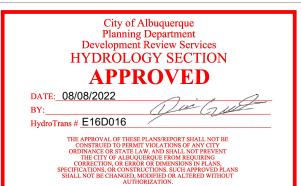
This plan shall Sediment Contr certified Notice required to be | owner/contract Engineer (Doug 505-924-3420 disturbance.

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		LEGEND	
		EXISTING	PROPOSED
OTES:	—		
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INSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO	property line —		·
ACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS S AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF	ROAD —		
SURFACES MUST BE PROTECTED FROM WIND AND FINAL (CITY) ACCEPTANCE OF ANY PROJECT.	SETBACK — —		
	WALL		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
ID SEDIMENT CONTROL: T FENCING OR BERM AT M SIDE OF SITE DURING	SPOT ELEVATION	18.09 +	++++

be used for the Erosion and
rol (ESC) Plan and Owner's
e of Intent (NOI) which is
submitted by the
tor to the Stormwater Quality
ı Hughes, PE, <u>jhughes@cabq.gov</u> ,
D) 14 days prior to any earth





### POND VOLUME PROVIDED: ELEV. AREA VOL. (CF) 5024 2581 1032.25 5023.5 1548 TOTAL 1032.25 100 year 10 year 10 year 0.064 0.006 (cubic feet) L = 0.34"/(12"/FT)\*(0.56 AC \* 43560 SF/AC) = 691 CF Proposed Existing disting Total Q (cfs) = 0.87 1.91 0.21 1.11 0.00

### ENGINEER'S CERTIFICATION:

I, Jackie S. McDowell, hereby certify that I personally inspected the site shown on this plan on May 10, 2022 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. A few debris piles exist which will be removed with this project effort.

512 TRES LAG	GUNAS LN NE AL	BUQUERQU	E NM 87	113		
CITY OF ALBU	QUERQUE, BERNA	ALILLO COU	NTY		NEW	MEXICO
Т	RES LAG	LOT ( UNAS	-	IVISIO	٧	
LUJ	AN — QUALITY E	BUILDERS -	- GRADIN	G & DRAIN	AGE PL	_AN
7820	<b>DOLUCIÓ</b> BEVERLY HILLS 7 505-828-2430	AVE. NE, A	LBUQUER		87122	
Designed JSM	Drawn STAFF	Checked	JSM	Sheet	of	
File QUA0122L	Date	MAY,2022		1		1