

# CITY OF ALBUQUERQUE

Planning Department  
Alan Varela, Director



Mayor Timothy M. Keller

February 16, 2023

Atef A. Hanna, P.E.  
Beacon Civil Engineering  
8345 Gunn Highway  
Tampa, FL 33626

**RE: Take 5 Car Wash  
9601 Sage Rd. SW  
Grading and Drainage Plans  
Engineer's Stamp Date: 02/09/23  
Hydrology File: M09D035**

Dear Mr. Hanna:

PO Box 1293

Based upon the information provided in your submittal received 02/10/2023, the Grading & Drainage Plan is approved for Building Permit, Grading Permit and SO-19 Permit. Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

Albuquerque

**PRIOR TO CERTIFICATE OF OCCUPANCY:**

NM 87103

1. Engineer's Certification, per the DPM Part 6-14 (F): *Engineer's Certification Checklist For Non-Subdivision* is required.
2. Please provide the executed paper Drainage Covenant (latest revision) printed on one-side only with Exhibit A and a check for **\$25.00** made out to "**Bernalillo County**" for the retention pond per Article 6-15(C) of the DPM to Hydrology for review at Plaza de Sol.

[www.cabq.gov](http://www.cabq.gov)

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 (Doug Hughes, PE, [jhughes@cabq.gov](mailto:jhughes@cabq.gov), 924-3420) 14 days prior to any earth disturbance.

# CITY OF ALBUQUERQUE

*Planning Department*  
Alan Varela, Director



*Mayor Timothy M. Keller*

If you have any questions, please contact me at 924-3995 or [rbrissette@cabq.gov](mailto:rbrissette@cabq.gov) .

Sincerely,

*Renée C. Brissette*

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

PO Box 1293

Albuquerque

NM 87103

[www.cabq.gov](http://www.cabq.gov)



# City of Albuquerque

Planning Department

Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 10/2018)

**Project Title:** TAKE 5 CAR WASH **Building Permit #:** \_\_\_\_\_ **Hydrology File #:** M09D035  
**DRB#:** NA **EPC#:** NA **Work Order#:** \_\_\_\_\_  
**Legal Description:** \_\_\_\_\_  
**City Address:** 9601 Sage Road SW

**Applicant:** M3 Design/Beacon Civil **Contact:** Jesse Macias/Atef Hanna  
**Address:** 2645 N 7th Avenue, Phoenix AZ 85007  
**Phone#:** 480-528-3136 **Fax#:** \_\_\_\_\_ **E-mail:** jmacias@m3designllc.com

**Other Contact:** Beacon Civil **Contact:** Atef Hanna  
**Address:** 8345 Gunn Hwy Tampa FL 33626  
**Phone#:** 813-699-3277 ext 113 **Fax#:** \_\_\_\_\_ **E-mail:** ahanna@beaconcivil.com

**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:** 2/9/2023 **By:** Atef Hanna, P.E.

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: \_\_\_\_\_

FEE PAID: \_\_\_\_\_



8345 Gunn Highway  
Tampa, Florida 33626

February 9, 2023

Renee C. Brissette, P.E., CFM  
City of Albuquerque Planning Department  
PO Box 87103  
Albuquerque, NM 87103

RE: Take 5 Car Wash  
9601 Sage Rd. SW  
Grading Plan  
Engineer's Stamp Date: 2/9/2023  
Hydrology File: M09D035

Dear Mr. Brissette:

Based upon the review letter issued on 02/01/2023, the following comments have been addressed for the above referenced project:

1. This private project is not a City of Albuquerque Department of Municipal Development project. Therefore, their Title Block is not needed and you can use your companies instead. The City does not care which one you use but private development typically uses their own.  
**Response: Title block has been replaced with Beacon Civil title block.**
2. Per the DPM, the following must be on the Grading Plan. Please note the Grading Plan must be a stand-alone construction document.
  - a. Please provide an engineer's stamp **with a signature and date. (Provided)**
  - b. Please provide a Vicinity Map. Typically, this is the Zone Atlas. This can be downloaded in pdf format from the City of Albuquerque's website. **(Provided)**
  - c. Please provide the Benchmark information (location, description and elevation) for the survey contour information provided. This is a City Benchmark that the surveyor should have pulled from. **(Provided)**
  - d. Please provide a legal Description of the property. **(Provided)**
3. This site is within the Amole-Hubbell Drainage Master Plan. Specifically, it is in Drainage Area TS206. This site was to go into the existing detention pond TS2. However, after reviewing the design of this pond, there is no capacity for this development and connecting to the existing storm drain along 98<sup>th</sup> Street is not allowed. No increased runoff to overcapacity systems can be authorized per § 14-5-2-12 (G) of the Albuquerque Code of Ordinances. Therefore, this development will have to provide a retention pond (100 year -

We'll guide you through your development



10 day volume) as outlined in Section 6-11(A)(2) Retention Ponds in the DPM. Please note that the required SWQ requirement is within this retention pond volume.



**Response:** Retention pond calculation is now provided on sheet C-4.0

4. Please provide an emergency spillway for the retention pond. This spillway can be a sidewalk culvert at the retention pond water surface elevation at the pond and the existing gutter elevation on Sage Road.

**Response:** Spillway has been added to sheet C-4.0

5. Please provide a cross section for the retention pond showing the top of pond, bottom of pond, and the required retention water surface elevation. Please make sure that there is a one-foot freeboard. Add a note, "Side slopes need to be stabilized with Native Grass Seed (per City Spec 1012) with Aggregate Mulch or equal (Must satisfy the "Final Stabilization criteria" CGP 2.2.14.b.)".

**Response:** A side slopes note and Cross section A-A have been added to sheet C-4.0.

6. Please add the volume provided under the Stormwater Quality Calculations.

**Response:** Stormwater Quality Calculations include volume provided of 1,202 CF.

7. Please reference City of Albuquerque standard detail No. 2236 – Sidewalk Culvert with Steel Plate Top at the sidewalk culvert. Also, please provide the weir calculations, per DPM Article 6-16(A), for the curb cuts and sidewalk culverts. A coefficient of 2.7 is typically used for the weir equation  $Q = CLH^{2/3}$ .

**Response:** A standard detail 2236 reference has been added to sheet C-4.0, calculations are also included on the sheet.



8. A SO-19 Permit will be required for the sidewalk culvert. Please include the standard SO-19 notes on the grading plan.

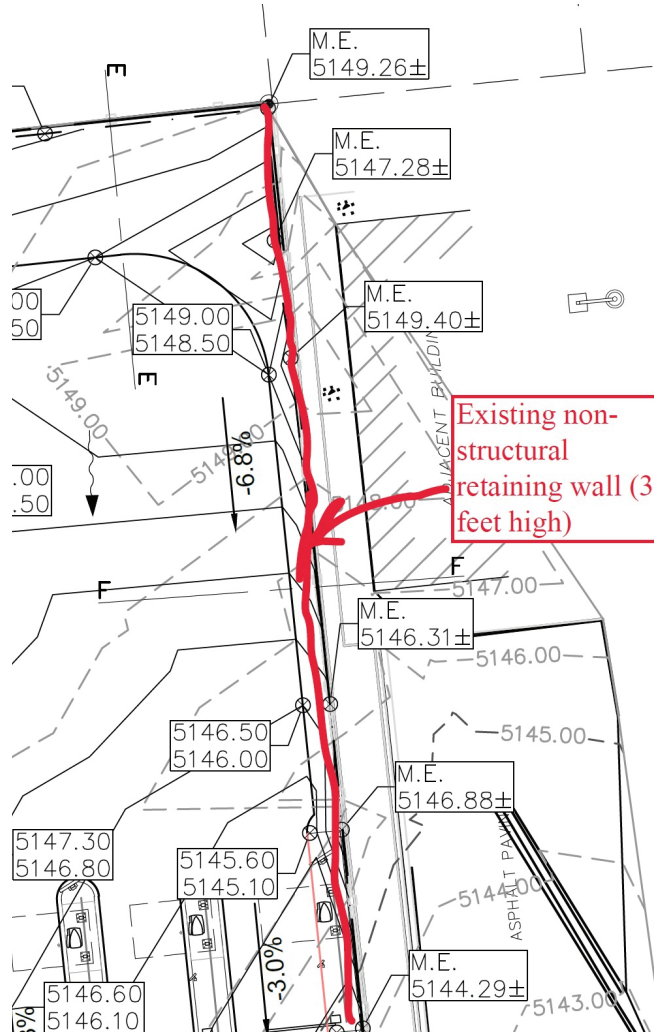
**Response: Notes are included on Sheet C-4.0**

9. Please use the procedure for 40 acre and smaller basins as outlined in Development Process Manual (DPM) Article 6-2(a). Please provide both the existing conditions and proposed conditions for the 100 year-6 hour storm event. These calculations should be on the Drainage Plan.

**Response: Calculations are now provided on sheet C-4.0**

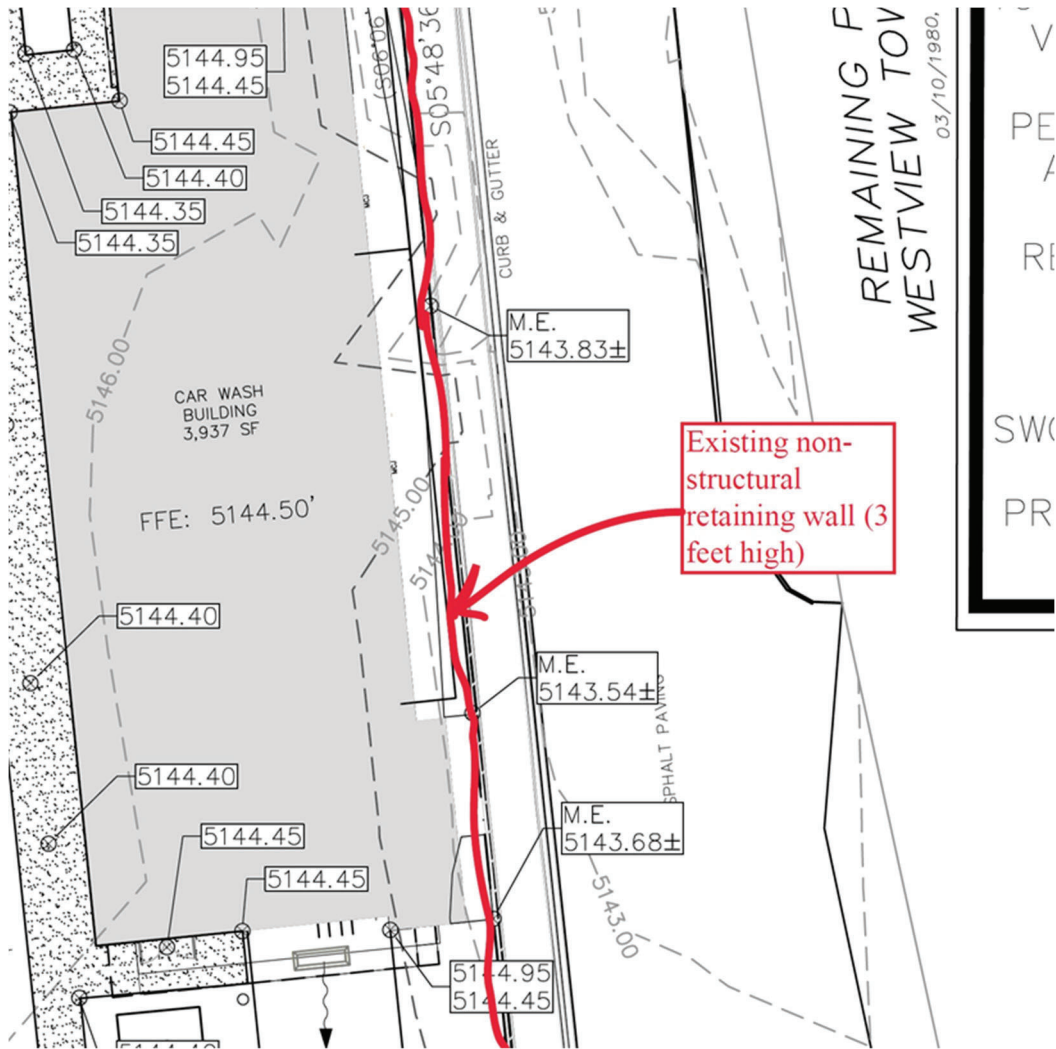
10. It appears that the proposed asphalt for the car wash and the proposed building is only about three feet from the existing three feet retaining wall (not structurally designed). Is there any proposed safety here such as adding a garden block wall so that vehicles do not drive over this onto the adjacent property which is below?

**Response: Additional grades have been added along the east property line and a guard rail has been added.**





**Beacon**  
CIVIL ENGINEERING



We'll guide you through your development



11. 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 (Doug Hughes, PE, [jhughes@cabq.gov](mailto:jhughes@cabq.gov), 924-3420) 14 days prior to any earth disturbance.

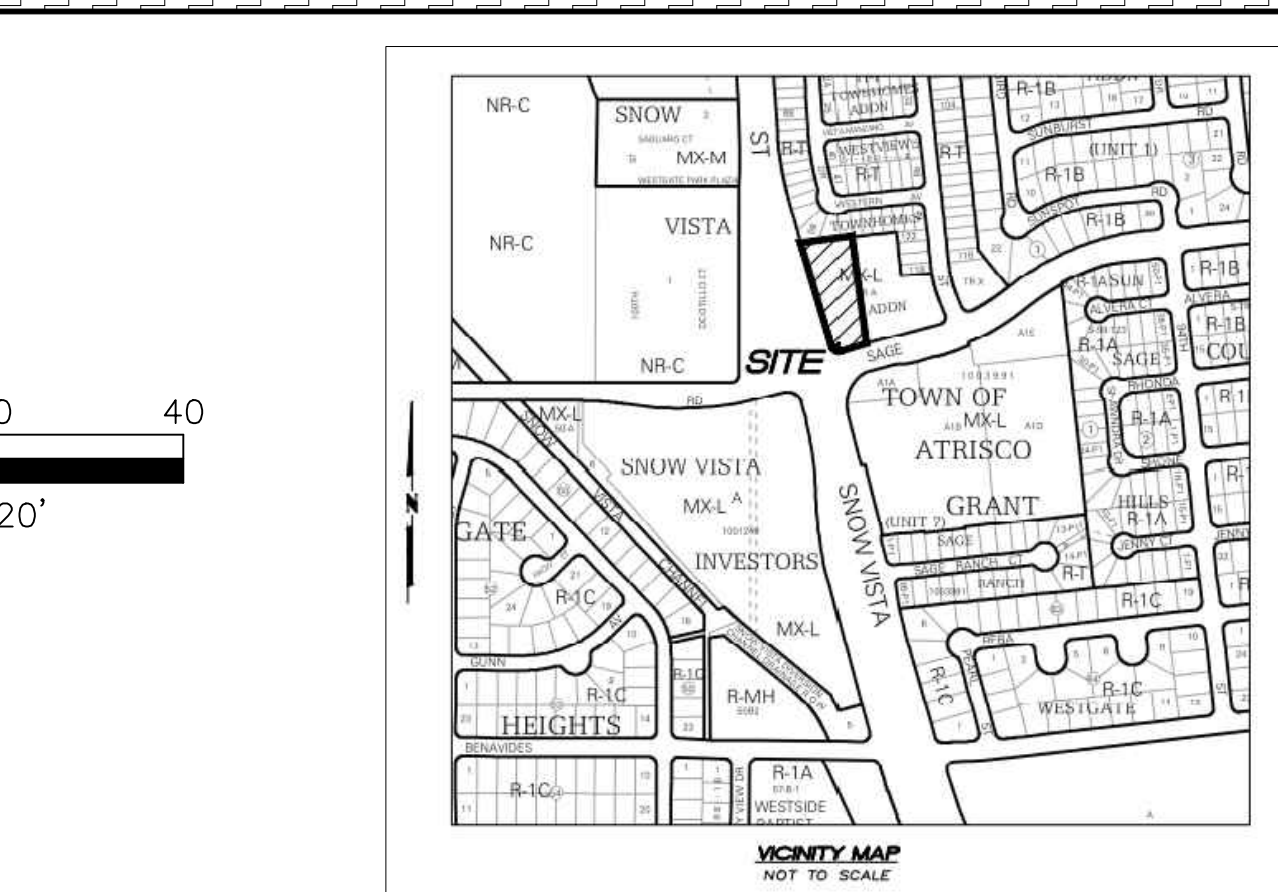
**Response: Acknowledged.**

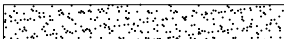


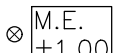






Sincerely,  
Beacon Civil Engineering, LLC.

A handwritten signature in black ink, appearing to read "Atef Hanna", with a long horizontal stroke extending to the right.

Atef Hanna, P.E.





- | <u>LEGEND</u>   |   |
|---|---|
|   | ADA PARKING STALLS. 2% MAX SLOPES IN ALL DIRECTIONS |
|  | PROPOSED SPOT ELEVATION                             |
|  | PROPOSED TOP OF CURB/BOTTOM OF CURB SPOT ELEVATION  |
|  | MATCH EXISTING ELEVATION                            |
|  | PROPOSED SLOPE INDICATOR                            |
|  | DIRECTIONAL DRAINAGE FLOW ARROW                     |
|  | EXISTING DIRECTIONAL DRAINAGE FLOW ARROW            |
|  | PROPOSED RIDGE LINE                                 |
|  | PROPOSED MAJOR CONTOUR                              |
|  | PROPOSED MINOR CONTOUR                              |

GRADING & DRAINAGE NOTES

1. JURISDICTIONAL LAND DISTURBANCE PERMIT SHALL BE DISPLAYED ON SITE AT ALL TIMES DURING CONSTRUCTION AND BE VISIBLE TO THE PUBLIC.
2. TWO PERMANENT BENCHMARKS ON-SITE SHALL BE ESTABLISHED BY CONTRACTOR PRIOR TO STARTING CONSTRUCTION.
3. PROPOSED SPOT ELEVATIONS ARE TO THE TOP OF PAVEMENT UNLESS OTHERWISE NOTED.
4. ALL REQUIRED FILL SHALL BE CLEAN, SUITABLE MATERIAL.
5. ALL AREAS DISTURBED OUTSIDE LIMITS OF GRADING SHOWN ON THE PLANS SHALL BE RESTORED TO EXISTING CONDITIONS OR BETTER BY THE CONTRACTOR.
6. CONTRACTOR SHALL MEET AND MATCH EXISTING (M.E.) PAVEMENT ALONG SAW-CUT LIMITS.
7. LENGTH OF PROPOSED RIP-RAP PADS AT PIPE OUTLET STRUCTURES SHALL BE A MINIMUM LENGTH OF SIX TIMES THE DIAMETER OF THE PIPE, IF APPLICABLE.
8. ALL FILL SHOULD BE PLACED IN THIN, HORIZONTAL LOOSE LIFTS, MAXIMUM 6 INCHES, AND COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698). A FLORIDA REGISTERED PROFESSIONAL SOILS ENGINEER SHALL CERTIFY THE SOIL COMPACTION PRIOR TO THE INSTALLATION OF PAVEMENTS, CURBS, SIDEWALKS OR FOOTINGS OF ANY TYPE. COMPACTION OF THE UPPER 8 INCHES OF SOIL BENEATH PAVEMENTS AND SLAB-ON-GRADE SHOULD BE COMPACTED TO AT LEAST 98%.
9. STORMWATER PONDS AND OUTLET STRUCTURES SHALL BE FULLY CONSTRUCTED AND OPERATIONAL PRIOR TO ANY OTHER CONSTRUCTION OR GRADING ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
10. REFER TO LANDSCAPE PLAN FOR REQUIRED TREE AND GROUND COVER PLANTINGS.
11. SURFACE GRADE SLOPES SHALL BE A MINIMUM OF 1.00%
12. 4:1 MAXIMUM CUT AND FILL SLOPES
13. ADA ACCESSIBLE AREAS SHALL NOT HAVE A MAXIMUM CROSS-SLOPE THAT EXCEEDS 2.00% AND MAX LONGITUDINAL SLOPE OF 5.00% UNLESS A RAMP IS SPECIFIED. IF DISCREPANCIES OCCUR CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD IMMEDIATELY TO CONFIRM DESIGN TO ENSURE ADA ACCESSIBLE STANDARDS ARE MET.
14. ALL TRENCHING AND BACKFILL OPERATIONS SHALL COMPLY WITH GOVERNING JURISDICTIONAL STANDARDS. **SEE SHEET C4-2 FOR PIPE TRENCHING DETAILS.**
15. SEE SHEET C4.1-C4.3 FOR DETAILS.
16. ALL INLET GRATES SUBJECTED TO VEHICLE LOADING SHALL MEET H-20 TRAFFIC LOADING STANDARDS.

EXISTING PERVIOUS/IMPERVIOUS

PERVIOUS	
OPEN SPACE:	47,916 SF / 1.10 AC / 100%
TOTAL PERVIOUS AREA:	47,916 SF / 1.10 AC / 100%

<u>IMPERVIOUS</u>			
BUILDING AREA:	0 SF/	0 AC/	0%
ASPHALT PAVEMENT AREA:	0 SF/	0 AC/	0%
CONCRETE PAVEMENT AREA:	0 SF/	0 AC/	0%
<u>SIDEWALK AREA:</u>	<u>0 SF/</u>	<u>0 AC/</u>	<u>0%</u>
TOTAL IMPERVIOUS AREA:	0 SF/	0 AC/	0%

## PROPOSED PERVIOUS/IMPERVIOUS

PERVIOUS	
OPEN SPACE AREA:	13,800 SF/ 0.32 AC/ 29%
TOTAL PERVIOUS AREA:	13,800 SF/ 0.32 AC/ 29%

<u>IMPERVIOUS</u>	
BUILDING AREA:	5,358 SF/ 0.12 AC/ 11%
ASPHALT PAVEMENT AREA:	26,516 SF/ 0.61 AC/ 55%
CONCRETE/SIDEWALK AREA:	2,242 SF/ 0.05 AC/ 5%
TOTAL IMPERVIOUS AREA:	34,116 SF/ 0.78 AC/ 71%

### LEGAL DESCRIPTION

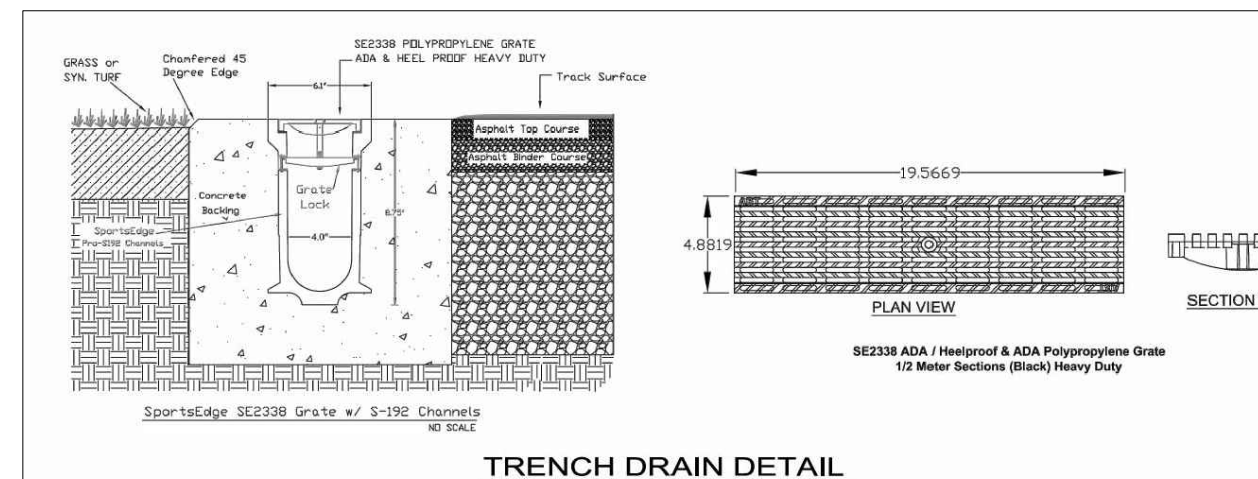
As listed in the Title Commitment prepared for this property by Fidelity National Title Insurance Company, Commitment No. SP000111723, commitment date June 17, 2021.

A certain Tract of Land lying within the Northwest One-Quarter (N1/4) of Section 33, T.10., R.2E., N.M.P.M., Bernalillo County, New Mexico, and being a portion of Tract "B" of Westview Townhome Addition, filed in the office of the County Clerk of Bernalillo County, New Mexico, on March 10, 1980, and being more particularly described as follows:

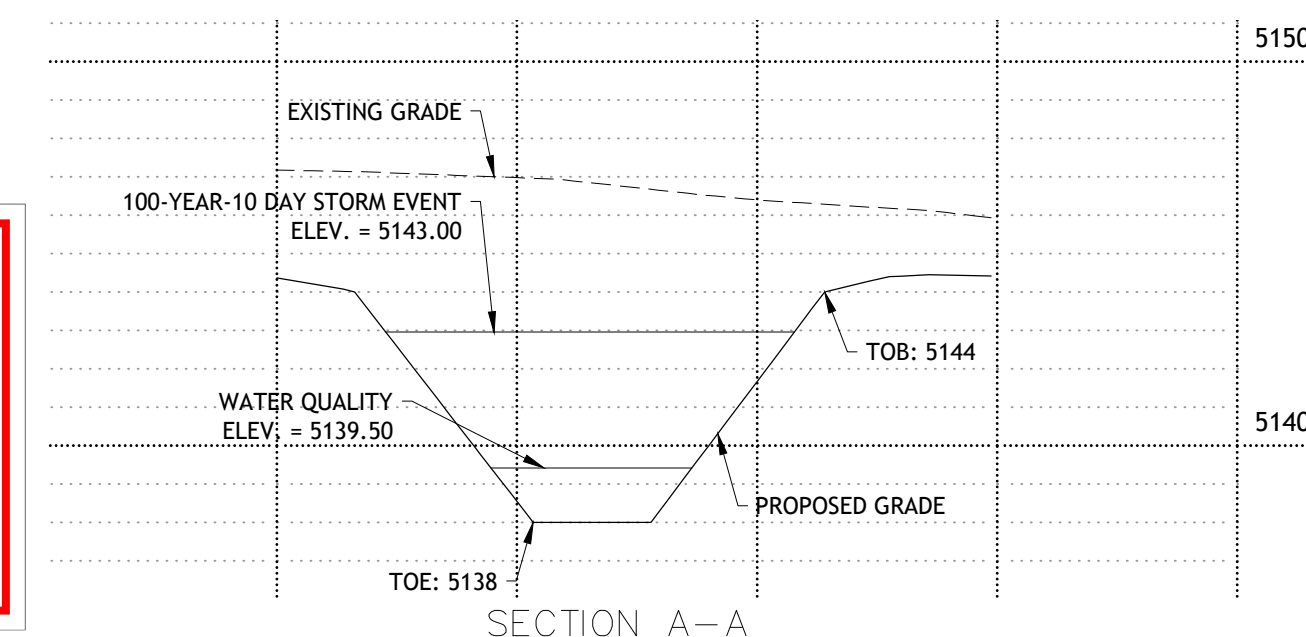
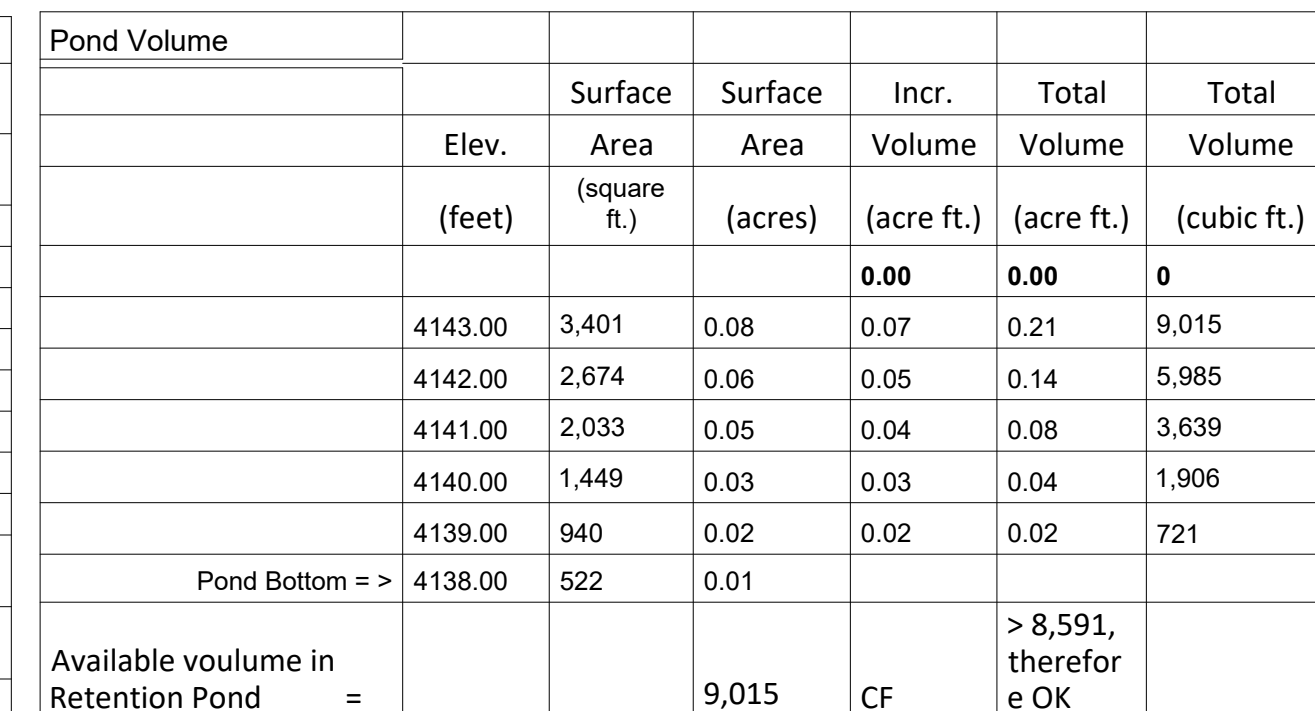
FOR A TRAIL COMMENCING at the Northwest Corner of said Section 33, T.10N., R.2E.,  
THENCE, N. 89 deg. 27' 22" E., 1392.96 feet along the North line of said Section 33,  
to the N. 82 E., 100.00 feet line of said Section 33, then East 100.00 feet to the  
beginning of the Northeast Corner of the tract herein described. THENCE, S. 06 deg.  
06' 37" E., 358.11feet to the Southeast Corner of the Tract herein described, being a  
point 25.00 feet from the Northeast Corner of said Section 33, then East 25.00 feet  
W. 84.63 feet to the point of a curve to the right, having a radius of 25.00 feet;  
THENCE, 39.27 feet along the arc of said curve to the right to a point of tangent on  
the Northeast Corner of the Tract herein described; then East 158.87 feet to the  
Northeast Corner of the new Easterly right-of-way line of Snow Vista Blvd. SW to the  
Northeast Corner of the Tract herein described; THENCE, N. 83 deg. 46' 07" E., 168.37

LESS & EXCEPTING that certain portion conveyed to the City of Albuquerque, a New Mexico municipal corporation by Warranty Deed filed September 4, 1996, in Book 96-24, page 2699, as Document No. 1996098275, records of Bernalillo County, New Mexico.

100-YEAR HYDROLOGIC CALCULATIONS											
BASIN	AREA (acre)	LAND TREATMENT				WEIGHTED E (IN)	100-YEAR PRECIPITATION				Q** (CFS)
		A (%)	B(CN=79) (%)	C (%)	D(CN=98) (%)		V(6-hr)* (acre-ft)	V(6-hr) (cu-ft)	V(24-hr)* (acre-ft)	V(24-hr) (cu-ft)	
EXISTING CONDITIONS											
SITE	1.1	0	1.1	0	0	0.79	0.07	3,154	0.07	3,154	2.38
TOTAL RUNOFF	1.1						0.07	3,154	0.07	3,154	2.38
DEVELOPED CONDITIONS											
SITE	1.1	0	0.32	0	0.78	0.92	0.08	3,692	0.08	3,692	3.90
TOTAL RUNOFF	1.1						0.08	3,692	0.08	3,692	3.90
EXCESS PRECIP. (Ei, in)											
		0.55	0.73	0.95	2.24			ZONE 1			
PEAK DISCHARGE (Qpi, cfs)		1.54	2.16	2.87	4.12						
* V6-hr (acre-ft) = (Weighted E)/Area/12								P6-hr (in)			
								P24-hr (in)	2.49		
** Q = (Qpb)*Ab + (Qpd)*Ad								P10day (in)	3.90		
Water Quality Volume					=	1,202					
Sidewalk Culvert Capacity, Weir Equation = (2.7)x(2ft)x(7in/12in/ft)*1.5					=	2.41	CF				
V10DAY (acre-ft) = V6-hr + (Adj)((P10DAY)-(P6-hr))/12					=	0.197	ac-ft				
					=	8,591	CF				



City of Albuquerque  
Planning Department  
Development Review Services  
HYDROLOGY SECTION  
**APPROVED**  
02/16/23  
DATE: \_\_\_\_\_  
BY: *Renee C. Brissett*  
HydroTrans # M09D035



# BUILDING ACCESS / AND PROTECTION NOTES

1. THE CONTRACTOR SHALL MAINTAIN ACCESS FOR EMERGENCY VEHICLES AROUND AND TO ALL BUILDINGS UNDER CONSTRUCTION WITH A MINIMUM WIDTH OF 20 FT. THE ACCESS TO BUILDINGS WITH SPRINKLER OR STANDPIPE SYSTEMS SHALL BE WITHIN 40 FT. OF THE FIRE DEPARTMENT CONNECTION ACCORDING TO NFPA 1141 3-1.
2. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING IN ALL AREAS AROUND BUILDING.

SITE BENCHMARK  
ALBUQUERQUE CONTROL SURVEY MONUMENT  
"22-L9 2002"  
NEW MEXICO STATE PLANE COORDINATES  
(CENTRAL ZONE - NAD 1983)  
NORTH = 1,477,194.085 FEET  
EAST = 1,493,349.447 FEET  
ELEV. = 5165.791 (NAVD 88)  
GROUND TO GRID FACTOR = 0.999681620

FLOOD PLAIN

THE SITE IS LOCATED IN FLOOD ZONE "X" PER  
FEMA FLOOD MAP NO.35001C0336H, DATED 8/16/2012

## WEIR CAPACITY

$$\text{Sidewalk Culvert Capacity, Weir Equation} = (1.1) \times (2\text{ft}) \times (7\text{in}/12\text{in}/\text{ft})^3 = 0.98 \text{ CFS}$$

2' CONCRETE SWALE

**ISSUED FOR PERMITTING**

DESIGNED BY:	CB	DRAWN BY:	CB	ISSUE DATE:	04/2022
CHECKED BY:	AH	APPROVED BY:	AH	JOB NO.:	21507



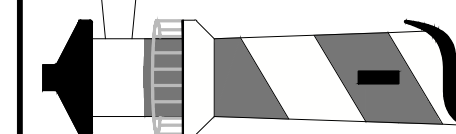
**Know what's below.**  
**Call before you dig**



ATEF A. HANNA, PE #27436

**BLA CON**  
CIVIL ENGINEERING

LAND DEVELOPMENT ENGINEERS  
8345 GUNN HIGHWAY  
TAMPA, FL 33626



# TAKE 5 CAR WASH

OF  
NEW MEXICO  
SNOW VISTA

98TH STREET  
ALBUQUERQUE,  
NM

SHEET NAME

## GRADING PLAN

SHEET NUMBER:

C-4.0