

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

February 3, 2023

Benny E Martinez, PE
Canova Engineering, LLC
P.O. Box 344
Velarde, NM 87582

RE: Carillo Shop
1001 Old Coors Rd. SW
Grading & Drainage Plan
Engineer's Stamp Date: 01/09/23
Hydrology File: L11D010

Dear Mr. Martinez:

Based upon the information provided in your submittal received 01/25/2023, the Grading & Drainage Plan is approved for Building Permit. Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

PO Box 1293

PRIOR TO CERTIFICATE OF OCCUPANCY:

Albuquerque

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 stormwater quality ponds per Article 6-15(C) of the DPM to Hydrology for review at Plaza de Sol.

NM 87103

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 (Dough Hughes, PE, jhughes@cabq.gov, 924-3420) 14 days prior to any earth disturbance.

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

Sincerely,

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

BP-2021-19993

Project Title: Carrillo Shop Building Permit # _____ Hydrology File # _____

DRB# _____ EPC# _____

Legal Description: Tract A of the Land Division City Address OR Parcel _____

Plat of Lot 14 and A Portion of Lot 13 and a Portion of Commercial

Tract Block 5 Los Altos Subdivision Gabino Carrillo Applicant/Agent: Gabino Carrillo Contact: Arnold Carrillo

Address: 1001 Coors SW Abq NM Phone: 505-216-4930

Email: Arnold.Carrillo1969@gmail.com

Applicant/Owner: Gabino Carrillo Contact: Arnold Carrillo

Address: 1001 Coors SW Abq. NM Phone: 505-690-4374

Email: Arnold.Carrillo1969@gmail.com

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

RE-SUBMITTAL: YES NO

DEPARTMENT: TRANSPORTATION HYDROLOGY/DRAINAGE

Check all that apply:

- TYPE OF SUBMITTAL:
- ENGINEER/ARCHITECT CERTIFICATION
 - PAD CERTIFICATION
 - CONCEPTUAL G&D PLAN
 - GRADING PLAN
 - DRAINAGE REPORT
 - DRAINAGE MASTER PLAN
 - FLOOD PLAIN DEVELOPMENT PERMIT APP.
 - ELEVATION CERTIFICATE
 - CLOMR/LOMR
 - TRAFFIC CIRCULATION LAYOUT (TCL)
 - ADMINISTRATIVE
 - TRAFFIC CIRCULATION LAYOUT FOR DRB APPROVAL
 - TRAFFIC IMPACT STUDY (TIS)
 - STREET LIGHT LAYOUT
 - OTHER (SPECIFY)
 - PRE-DESIGN MEETING?

- TYPE OF APPROVAL/ACCEPTANCE SOUGHT:
- BUILDING PERMIT APPROVAL
 - CERTIFICATE OF OCCUPANCY
 - CONCEPTUAL TCL DRB APPROVAL
 - 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
 - FLOOD PLAN DEVELOPMENT PERMIT
 - OTHER (SPECIFY) _____

DATE SUBMITTED: 1/11/23

Gabino Carrillo

BP-2021-19993

FEMA Flood Map Service Center: Search By Address

Hydrology file L11D010



Navigation

Search

Languages

Users may experience slow performance when viewing GIS data. FEMA is working to resolve the issue.

Enter an address, place, or coordinates: 

1001 Old Coors Dr SW, albuquerque nm

Whether you are in a high risk zone or not, you may need [flood insurance](https://www.fema.gov/national-flood-insurance-program) because most homeowners insurance doesn't cover flood damage. If you live in an area with low or moderate flood risk, you are 5 times more likely to experience flood than a fire in your home over the next 30 years. For many, a National Flood Insurance Program's flood insurance policy could cost less than \$400 per year. Call your insurance agent today and protect what you've built.

Learn more about [steps you can take](https://www.fema.gov/what-mitigation) to reduce flood risk damage.

- MSC Home (/portal/)
- MSC Search by Address (/portal/search)
- MSC Search All Products (/portal/advanceSearch)
- MSC Products and Tools (/portal/resources/productsandtools)
 - Hazus (/portal/resources/hazus)
 - LOMC Batch Files (/portal/resources/lomc)
 - Product Availability (/portal/productAvailability)
- MSC Frequently Asked Questions (FAQs) (/portal/resources/faq)
- MSC Email Subscriptions (/portal/subscriptionHome)
- Contact MSC Help (/portal/resources/contact)

Search Results—Products for ALBUQUERQUE, CITY OF

Show ALL Products » (<https://>)

The flood map for the selected area is number **35001C0329H**, effective on **08/16/2012**

DYNAMIC MAP



MAP IMAGE



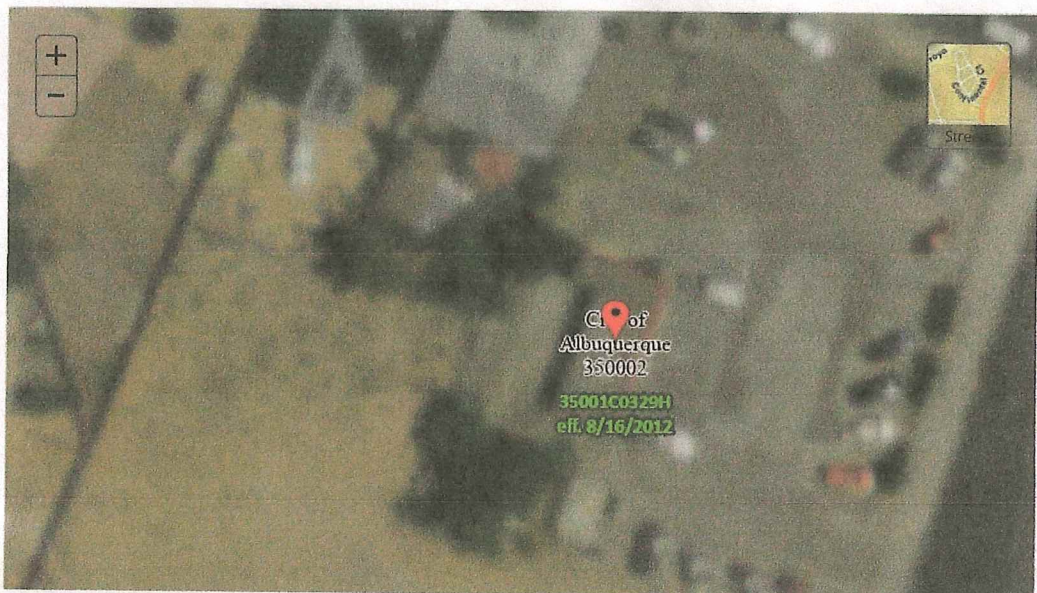
Changes to this FIRM

- Revisions (6)
- Amendments (6)
- Revalidations (3)

https://msc.fema.gov/portal/downloadProduct?productTypeID=FINAL_PRODUCT&productSubTypeID=FIRM_PANEL&productID=35001

Go To NFHL Viewer » (<https://>)

You can choose a new flood map or move the location pin by selecting a different location on the locator map below or by entering a new location in the search field above. It may take a minute or more during peak hours to generate a dynamic FIRMette. If you are a person with a disability, are blind, or have low vision, and need assistance, please contact a map specialist (<https://msc.fema.gov/portal/resources/contact>).



Gabino Carrillo
 1001 OLD COORS DR SW, ABQ, NM
 Hydrology file L11D010

National Flood Hazard Layer FIRMette



Legend

SEE THIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE) Zone A, V, AB9
- With BFE or Depth Zone AE, AO, AH, VE, AR
- 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 X
- Future Conditions 1% Annual Chance Flood Hazard Zone X
- Area with Reduced Flood Risk due to Levees, See Notes, Zone X
- Area with Flood Risk due to Levees Zone D

OTHER AREAS

- NO SCREEN
- Area of Minimal Flood Hazard Zone X
- Effective LOMRs
- 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 Transsect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transsect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS

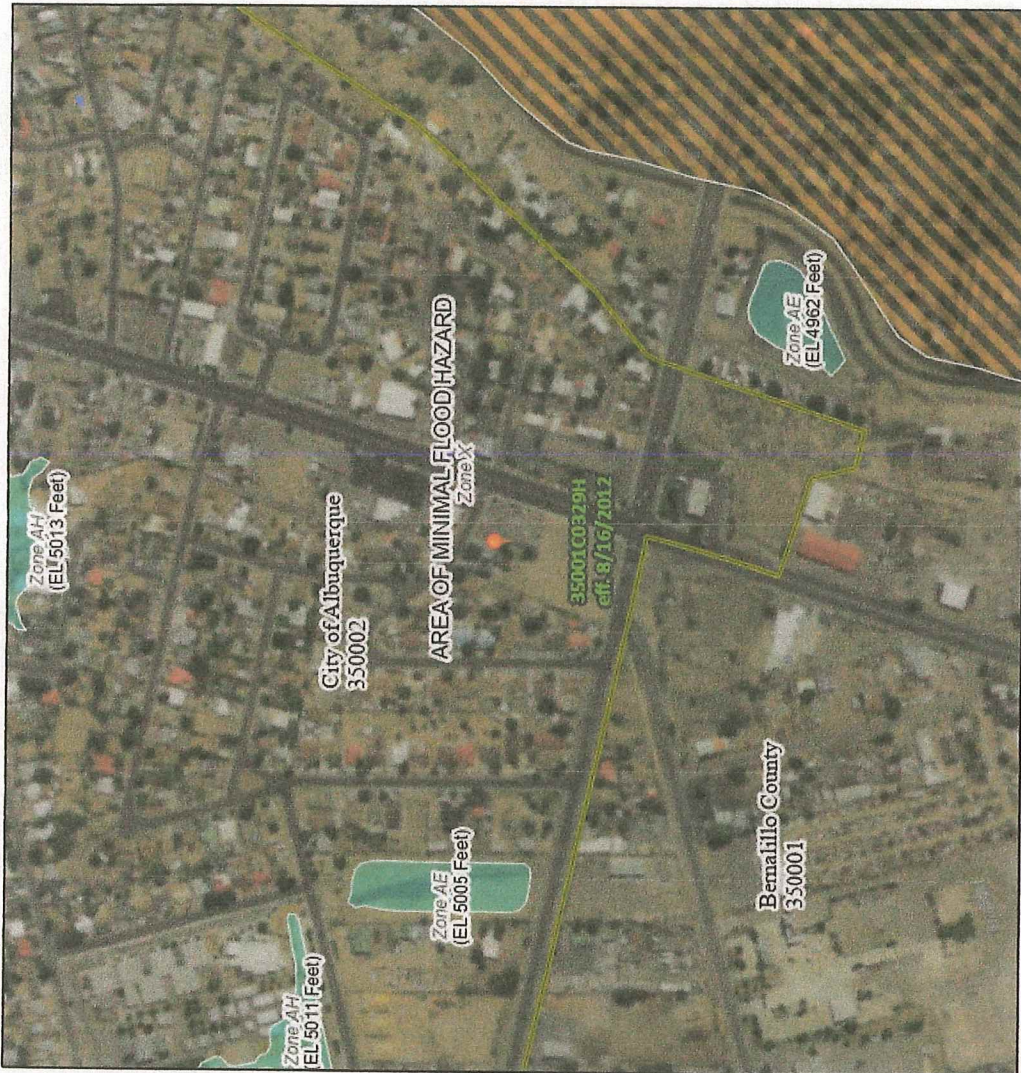
- Digital Data Available
- No Digital Data Available
- Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/28/2022 at 6:35 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 elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifier, FIRM panel number, and FIRM effective date. Map images for unmapped and undetermined areas cannot be used for regulatory purposes.



106°42'23"W 35°42'2"N
 106°41'45"W 35°42'53"N
 Feet
 0 250 500 1,000 1,500 2,000
 Basemap: USGS National Map. Orthoimagery: Data refreshed October, 2020



GABINO AND MAGALY CARRILLO SHOP

HYDROLOGY PLAN

JANUARY 2023

DRAINAGE CALCULATIONS

NOTE:

- THE AVERAGE SLOPE OF THE BUILDABLE AREA IS LESS THAN 20%. A PAD WILL BE CONSTRUCTED TO ACCOMMODATE THE RESIDENCE PAD AND EARTHWORK SHALL BE KEPT TO A MINIMUM TO AVOID DISTURBANCE OF THE NATURAL ENVIRONMENT.
- CONTRACTOR TO FOLLOW THE SANTA FE COUNTY GUIDELINES FOR RESIDENTIAL STRUCTURES ABOVE ELEVATION OF 7400 FEET. SOILS ARE ACCEPTABLE FOR CONSTRUCTION OF MONOLYTHIC CONCRETE SLAB/FOUNDATION AS PER PLANS.
- THE FINISHED FLOOR ELEVATION OF THE STRUCTURE IS WITHIN THE 15% AND 30 % AND DOES NOT EXCEED 5 FEET ABOVE THE NATURAL ABOVE THE NATURAL GRADE..
- THE RETENTION POND SHALL BE SHEATHED WITH SMALL 3"-5" NATURAL ROCK WITH 2:1 SLOPE.
- THE DRAINAGE SHALL BE DIRECTED AWAY FROM RESIDENCE AND SLOPED TOWARDS RETENTION POND.

1001 COORS SW Albuquerque NM

The purpose of this drainage report is to present a grading and drainage solution for new development.

Existing Drainage Conditions

The lot is in Zone 1. The lot has an existing pond, and all of the lot is type D land Treatment, so no proposed flows will surpass the existing flows. The existing slope is 1.8% from east to west, where the existing pond collects the flow.

Proposed Conditions and On-Site Drainage Management plan

The proposed condition is the addition of the proposed office, which is built on top of the existing asphalt. The proposed condition is the same as the existing condition, hydrologically. The flow direction will be maintained to drain all flow to the existing pond. The pond volume calculations below will address the first flush requirement only since there will be no additional flow because of the proposed conditions.

Ponding Volume Requirements (90th Percentile/First Flush)

Site area in existing and proposed conditions is Type "D" Land Treatment

$$\text{Site area} = (100.48 + 140.22) / 2 * (229.12 + 178.58) / 2 = 25,533 \text{ SQ.FT.}$$

$$\text{First Flush Volume Required} = (0.44 / 12) (25,533) = 936 \text{ CF}$$

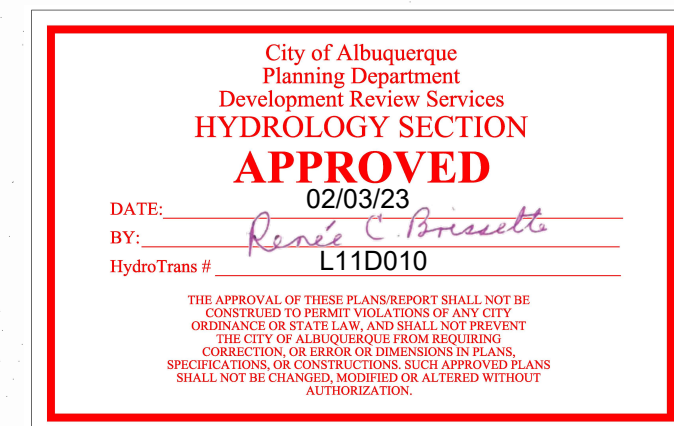
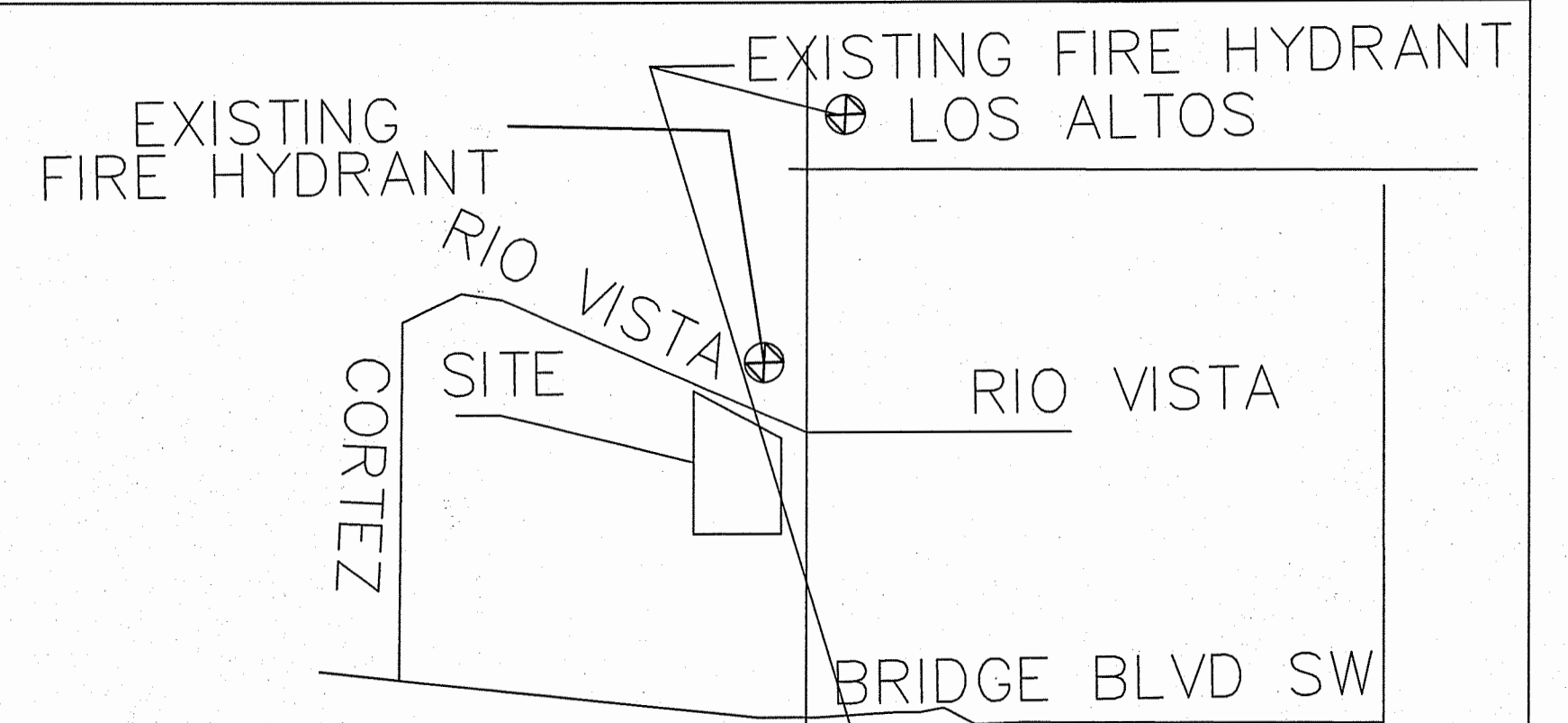
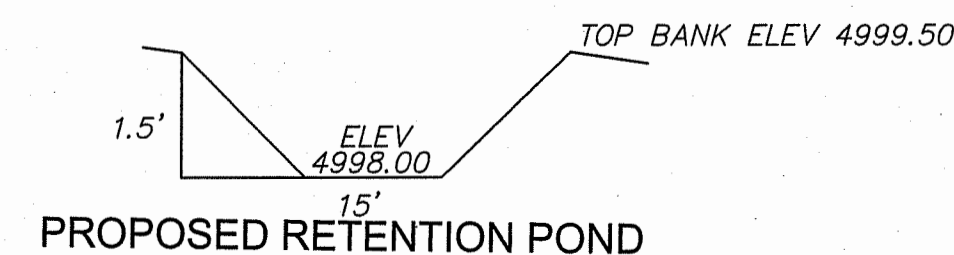
$$\text{Existing Pond volume} = ((10+12)/2) * ((1+1.5)/2) * 90 = 1237.5$$

Existing pond volume > First Flush Volume Required, therefore the existing pond is sufficient.

SURVEY INFO

DATUM-BENCHMARK INFO

NAVD ELEVATION 5005.696'
 NM-45-4A
 THIS PROJECT IS WITHIN THE
 FEMA FLOOD ZONE "X" AS
 IDENTIFIED ON THE FEMA.GOV PORTAL



CANOVA ENGINEERING LLC
 BENNY E. MARTINEZ
 P.O. BOX 344, VELARDE, NM 87582
 505-927-7401 canova.engr@gmail.com

GABINO & MAGALY CARRILLO
 1001 COORS SW
 ALBUQUERQUE, NM

DATE:
 01-06-23

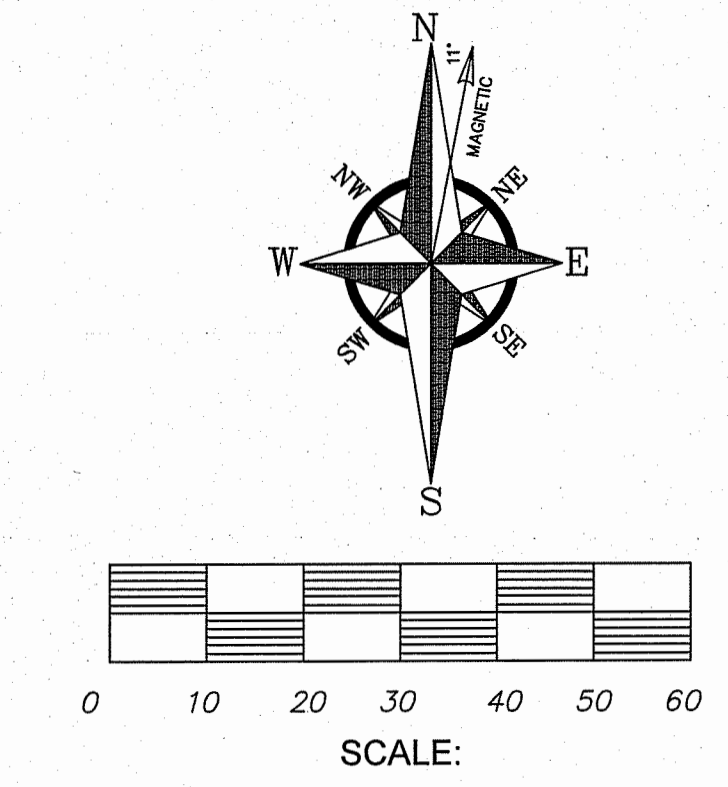
HYDROLOGY
 PLAN

SHEET NO:
 9-14

CANOVA
 ENGINEERING LLC

11/9/23

 BENNY E. MARTINEZ NMPE#12543
 (505) 927-7401



- MONITORING WELL
- WATER METER
- GAS METER
- POWER POLE
- GAS VALVE

PROPOSED RETENTION POND
 40' X 15' X 1.5'
 NEW ELEVATION 4998.00

70"-3" SEWER DRAIN PIPE
 3" TWO WAY SEWER CLEANOUT
 TIE IN TO EXISTING DRAIN PIPE
 RUN 70"-1" WATER LINE
 3' DEEP TO EXISTING WATER LINE

