**Location**

This site is Lot 11, Menaul Place Subdivision located at 1329 Cordova Ave NW, Albuquerque, NM 87107.

**Purpose**

The purpose of this plan is to present a grading and drainage solution for the new Garage/Shop building.

**Existing Conditions**

The site if fairly flat. and does not fall within a 100-Year flood plain. See attached portion of the floodplain maps 35001C0141G for the location of the site. The site flows to Cordova Avenue and down south to Phoenix Ave.

**Proposed Conditions and On-Site Drainage Management Plan**

The runoff under the development conditions will drain the same as existing conditions. A 100-year/10-day volume is provided for the new impervious area.

## PONDING VOLUME PROVIDED

TOTAL VOLUME PROVIDED = 2,880.00 CF

***90TH PERCENTILE RAIN EVENT - VOLUME REQUIREMENTS***

VOLUME REQUIRED = 0.615/12 x 2,880.00 = 147.60 CF

### NOTICE TO CONTRACTORS

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1985.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.
6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.
8. ALL SLOPES STEEPER THAN 3:1 WILL REQUIRE EROSION PROTECTION.

## PONDING VOLUME PROVIDED

RETENTION POND
TOP AREA=1,303.45 (@ 5,865.35
BOTTOM AREA=564.79 (@ 5,864.35)
DEPTH=1.0
VOLUME = (1,303.45+564.79)/2*2 = 934.12 CF

PONDING VOLUME REQUIRED = 878.40 CF

***VOLUME CALCULATIONS FOR 10 DAY STORM***

**ZONE 2**

$$E = \frac{EA(AA) + EB(AB) + EC(AC) + ED(AD)}{AA + AB + AC + AD}$$

V-360 = E (AA + AB + AC + AD)/12 in/ft
V-10 Day = V-360 + AD (P-10 Day - P-360) / 12 in/ft

NEW BUILDING AREA = 2,880.00 CF

| PROPOSED | ALLOWABLE |
|---|---|
| AA = 5.00% | AA = 43.00% |
| AB = 45.00% | AC = 20.00% |
| AC = 10.00% | AB = 20.00% |
| AD = 40.00% | AD = 17.00% |

EA = 0.62 P-60 = 1.78
EB = 0.80 P-360 = 2.29
EC = 1.03 P-1440 = 2.59
ED = 233 P-10 Day = 3.62

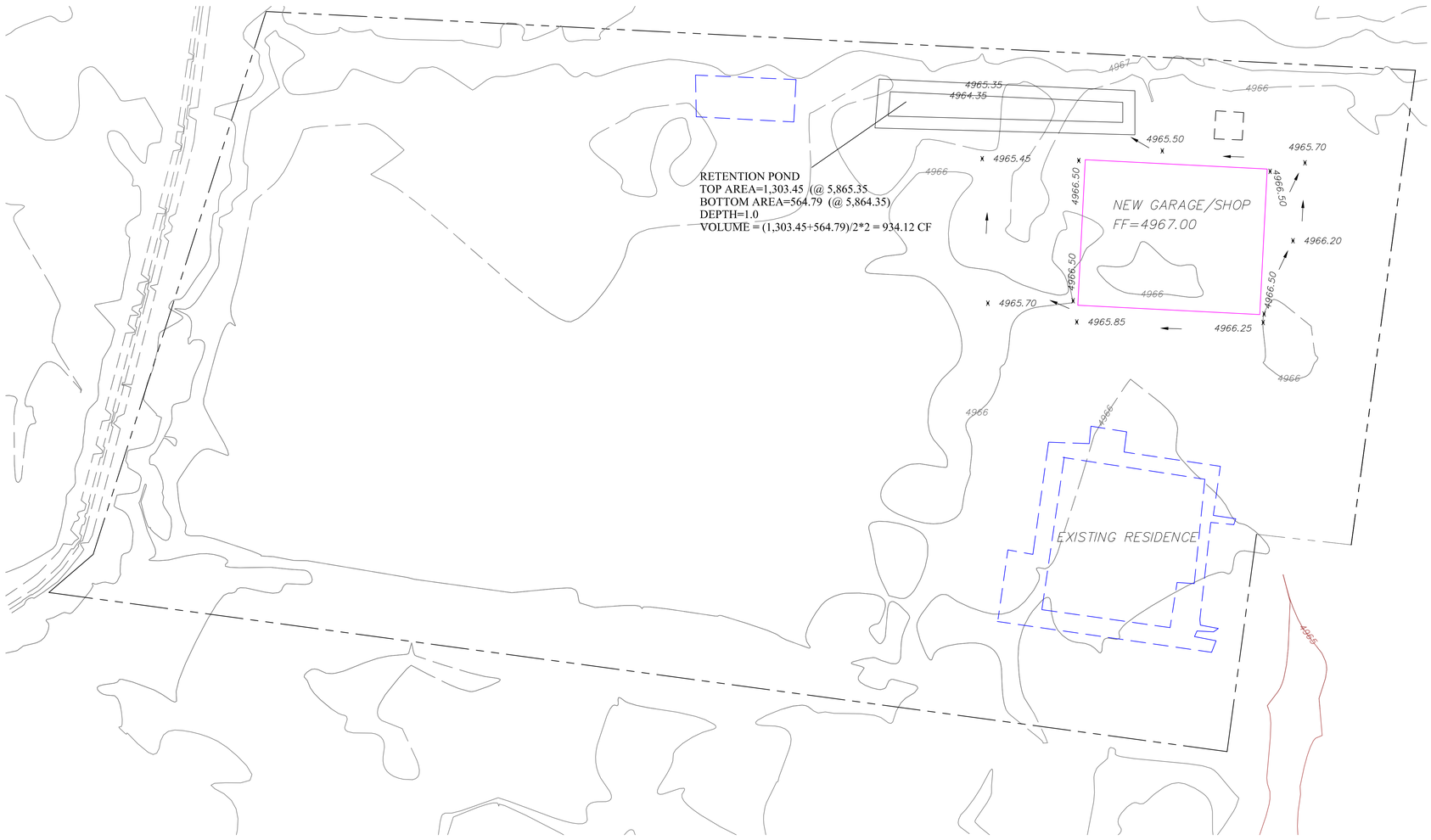
**V-360 = 559.20 CF (PROPOSED)**
**V-10 DAY = 878.40 CF (PROPOSED)**

**PONDING VOL REQUIRED:**
**V = 878.40 CF**


35001C0331H VICINITY MAP: G-13-Z

**LEGAL DESCRIPTION:**

LOT 11, MENAUL PLACE SUBDIVISION




### EROSION CONTROL PLAN AND POLLUTION PREVENTION NOTES

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT OUT OF EXISTING RIGHT-OF-WAY.
3. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL STORM RUNOFF ON SITE.
4. REPAIR OF DAMAGED FACILITIES AND CLEAN-UP OF SEDIMENT ACCUMULATION ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.
6. ALL THE DISTURBED AREAS MUST BE REVEGETATED.

### LEGEND

| | |
|---|---|
| | BOUNDARY LINE |
| • 4900.00 | PROPOSED SPOT ELEVATION |
| X5265.16 | EXISTING GRADE |
| | EXISTING MAJOR CONTOUR |
| | EXISTING MINOR CONTOUR |
| TRW=38.00 TF=32.00 | TOP OF RETAINING WALL TOP OF FOOTING |
| • 4900.00 5765.17 | AS-BUILT GRADE |

GRAPHIC SCALE

20 10 0 20

SCALE: 1"=20'

REZA AFAGHPOUR NEW MEXICO 11814 LICENSED PROFESSIONAL ENGINEER

04-13-2025

REZA AFAGHPOUR
P.E. #11814


SBS CONSTRUCTION AND ENGINEERING, LLC
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LAST REVISION: 4/13/2025

| 1329 CORDOVA AVE. NW GRADING AND DRAINAGE PLAN | | | |
|---|---|---|---|
| DRAWING: | DRAWN BY: | DATE: | SHEET # |
| 1329 CORDOVA AVE_GD.DWG | SBB | 4/13/2025 | 1 OF 1 |