

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

June 14, 2023

Mark H. Burak, P.E.
1512 Sagebrush Trail SE
Albuquerque, NM 87123

RE: Buner Metal Bldg – 2nd St. NW
Grading and Drainage Plans
Engineer's Stamp Date: 05/05/23
Hydrology File: G14D101

Dear Mr. Burak:

Based upon the information provided in your submittal received 06/08/2023, the Grading & Drainage Plan is approved for Building Permit and Grading 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.

NM 87103

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.

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, 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 (REV 6/2018)

Project Title: Bruner Metal Building **Building Permit#:** _____ **Hydrology File#:** G14101
DRB#: _____ **EPC#:** _____ **Work Order#:** _____
Legal Description: Lots 4 & 5, Monkbridge Addition
City Address: 4012, 4016 Second St NW, Albuquerque, NM

Applicant: Burak Consulting **Contact:** Mark Burak, PE
Address: 1512 Sagebrush Tr SE, 87123
Phone#: (505) 235-2256 **Fax#:** _____ **E-mail:** mburak@comcast.net

Other Contact: R² Architectural Design, LLC **Contact:** Rob Rayner, AIA
Address: 12024 Paisano Ct NE, ABQ 87112
Phone#: (505) 321-3932 **Fax#:** _____ **E-mail:** _____

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

IS THIS A RESUBMITTAL? _____ 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
- ☐ FLOODPLAIN DEVELOPMENT PERMIT APPLICATION
- ☐ ELEVATION CERTIFICATE
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ TRAFFIC IMPACT STUDY (TIS)
- ☐ STREET LIGHT LAYOUT
- ☐ 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: May 25, 2023 **By:** Mark Burak

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

2ND STREET NW
80' R.O.W.



UPC: 101406049624342216
Owner: HENRY J BRUNER PROPERTIES LLC
Owner Address: 1606 SAN SAULO RD SW ALBUQUERQUE NM 87105-2730
Situs Address: 4016 2ND ST NW ALBUQUERQUE NM 87107
Legal Description: * 004 A MONKBRIDGE REPL
Acres: 0.1377

City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED
DATE: 06/14/23
BY: *Mark H. Burak*
HydroTrans #: G14D101
THE APPROVAL OF THESE PLANS/REPORT SHALL NOT BE
CONSTRUED TO PREVENT YOU FROM IN ANY CITY
ORDINANCE OR STATE LAW, AND SHALL NOT PREVENT
THE CITY OF ALBUQUERQUE FROM ENFORCING
CORRECTION, OR ORDER OF DISCONTINUANCE IN PLANS,
SPECIFIC NOTICES, OR CONSTRUCTION, IN ALL APPLICABLE PLANS
WHICH MAY BE CHARGED, WITHOUT A FURTHER WRITTEN
AUTHORIZATION.

VICINITY MAP G-14



NOTES

Site Location - As shown by the Vicinity Map (Zone Atlas Map G-14), the 0.28-acre commercial two lot project site is located on the east side of Second Street NW between Mescalero Road and Heading Avenue. At present, the site is mostly developed with metal buildings and sheds with a paved parking area adjacent to Second Street. This project consists of the construction of an additional 2,100 sf metal building near the southeast corner of the property. The site drains roughly from east to west across the paved driveway and discharges into Second Street. No offsite runoff impacts this site due to the proximity of the fully developed surrounding properties.

Project Scope - The purpose of this project is to estimate the impact of the proposed building on the overall site grading and drainage. The development of the site with the new building will provide an opportunity to improve the surrounding drainage around the existing buildings and also incorporate integrated water quality ponding areas to help reduce the impact to the current flood conditions within Second Street.

To control rainfall runoff throughout the project, the volumetric capacity of the site including the existing driveways and parking, along with the proposed building pad will need to be assessed. It is the intent of this analysis to illustrate that the entire 100-year runoff peak volume will be entirely controlled within the property limits of the subdivision. Calculations show that the two easterly water quality retention ponds within the site will hold the entire ten-day runoff volume at a depth of one to two feet within the rear area of the existing building and within the landscape area in front of the proposed building. To reduce the impact of the driveway runoff to Second Street, two small landscaped areas are proposed for the sides of the driveway. These landscaped areas are to be depressed about one foot to collect the runoff from the existing paved parking area. A new handicap parking space and an additional parking space are proposed on the existing pavement located in front of the proposed building.

Legal Description - Lots 4&5, Block A Monkbridge Addition, Albuquerque, New Mexico containing 0.28 acres. Address is 4012 and 4016 Second Street, NW.

Benchmark - Elevation is from 2010 Bernalillo County aerial topography and mapping. Basis of Bearing is NM State Plane Coordinates, Central Zone 1927 and runs along the back of curb on Second Street.

Hydrologic Methods - The process outlined in the City of Albuquerque Development Process Manual (DPM), Chapter 6, was used to quantify the peak flow rates and volumes throughout the project site. Due to the upstream surrounding developments, no offsite runoff will impact the project site. The calculation spreadsheet analyzes the fully developed conditions for the 100-year, 6-hour rainfall event, Precipitation Zone 2. This spreadsheet outlines the peak runoff and volume for each sub-basin for existing and fully developed conditions. For existing conditions, the property was assumed to consist of only Treatment C in the undeveloped areas and Treatment D for all other areas. Fully developed conditions assumed typically treatment C for the retention ponding areas and unpaved areas and treatment D for the impervious paved areas. The percentages are illustrated on the spreadsheet calculations.

The drainage basin map shows ten separate sub-basins A through K to assess peak flow rates at various points impacting the project site. The peak rate of runoff for the project under existing conditions was calculated as 1.0-cfs. Fully developed, the total runoff was estimated at 1.1-cfs. The runoff volume generated on the entire site east of the paved parking area is to be retained on the site. The impact to Second Street would be decreased to only the area within the existing paved parking area adjacent to the street due to the on-site retention ponds.

Flood Zone - As shown by the FIRM, Panel 332G of 825 of the National Flood Insurance Program Flood Insurance Rate Maps (FIRM) for the City of Albuquerque, New Mexico, dated September 26, 2008, this site does not lie within a designated Flood Hazard Zone.

Existing Conditions - The project site consists of one 2,000 square foot metal building, a small shed and a storage container. One driveway/curb cut per parcel allows access onto the paved parking area from Second Street NW. Approximately one-third of the project is currently paved. The parking area slopes about 2.5 percent towards Second Street.

Proposed Grading & Storm Drainage- The existing pavement will remain in current conditions. The new building will be located as shown with a significant area between the building and pavement to be utilized for landscaping and water quality retention. The southern half of the proposed building will direct the gutters to drain to the west to discharge into the proposed ponding area. The area behind the existing metal building will be excavated approximately two feet to provide adequate retention volume to hold all of the existing building runoff along with the northern half of the proposed building. Additional grading along the north side of the existing building will help improve the on-site drainage of the site. A small channelized area on the north side of the building sloped at one percent will be able to carry the runoff impacting that location to the northern retention pond.

Any runoff overtopping the retention basins will overflow over the existing pavement area into Second Street right-of-way. The south retention pond is to be at least one foot deep with 5:1 side slopes and the northern retention pond will be two feet deep with 3:1 maximum side slopes and will have adequate capacity to retain the entire volume generated east of the paved parking within the site.

To reduce the current impact to Second Street from the existing paved parking area, two additional water quality ponding areas are to be installed on each side of the driveway entrance. These ponding areas are also to be landscaped. To salvage the existing pavement and also direct the runoff into the two ponds, an asphalt diversion hump is to be installed that will intercept the sheet flow from the paved area and divert it into the two ponds. The asphalt hump is to extend across the entire driveway as shown and is to be at least two inches high. The angle shown on the plan illustrates a one-half percent slope towards the ponds. The current slope is about 2.5 percent. The northern pond has the capacity of 70 cubic feet where subbasin "A" will generate 85 cubic feet. The southern side will only hold about 16 cubic feet while subbasin "B" generated 71 cubic feet. The excess will overtop back into Second Street.

90th Percentile Compensatory Volume - The first flush has been mitigated based on the area of the project site that is proposed to be impervious. This equates to a volume of 470 cubic feet. This storage has been provided on the plan within the retention areas. The maximum cumulative volume of the proposed south pond is over 240 cubic feet and the north pond is 950 cubic feet before overtopping onto Second Street NW.

Summary - The entire 0.28-acre site may be developed according to the proposed development plan without adversely impacting downstream structures. The proposed retention basins will limit the outfall to Second Street NW. Downstream impact will be reduced when compared to existing conditions.

DESIGNED BY: M.H.B.	DRAWN BY: T.D.S.	CHECKED BY:	REVISION	BY	DATE	MARK



Mark H. Burak, P.E.
1512 Sagebrush Trail SE
Albuquerque, New Mexico, 87123
(505) 235-2256
mburak@comcast.net



BRUNER METAL BUILDING	GRADING & DRAINAGE PLAN
4012 Second Street NW	

DRAWING NUMBER
C1
1 OF 2

