CITY OF ALBUQUERQUE

Planning Department
David Campbell, Director



February 25, 2019

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

RE: 211 Maple St. NE

Permanent C.O. - Accepted

Engineer's Certification Dated 02/11/19

Engineer's Stamp Date: 02/28/18

Hydrology File: K15D090

Dear Mr. Burak:

Based on the Certification received 02/25/19 and site visit on 02/25/19, this certification is

approved in support of Permanent Release of Occupancy by Hydrology.

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

Albuquerque

Sincerely,

NM 87103

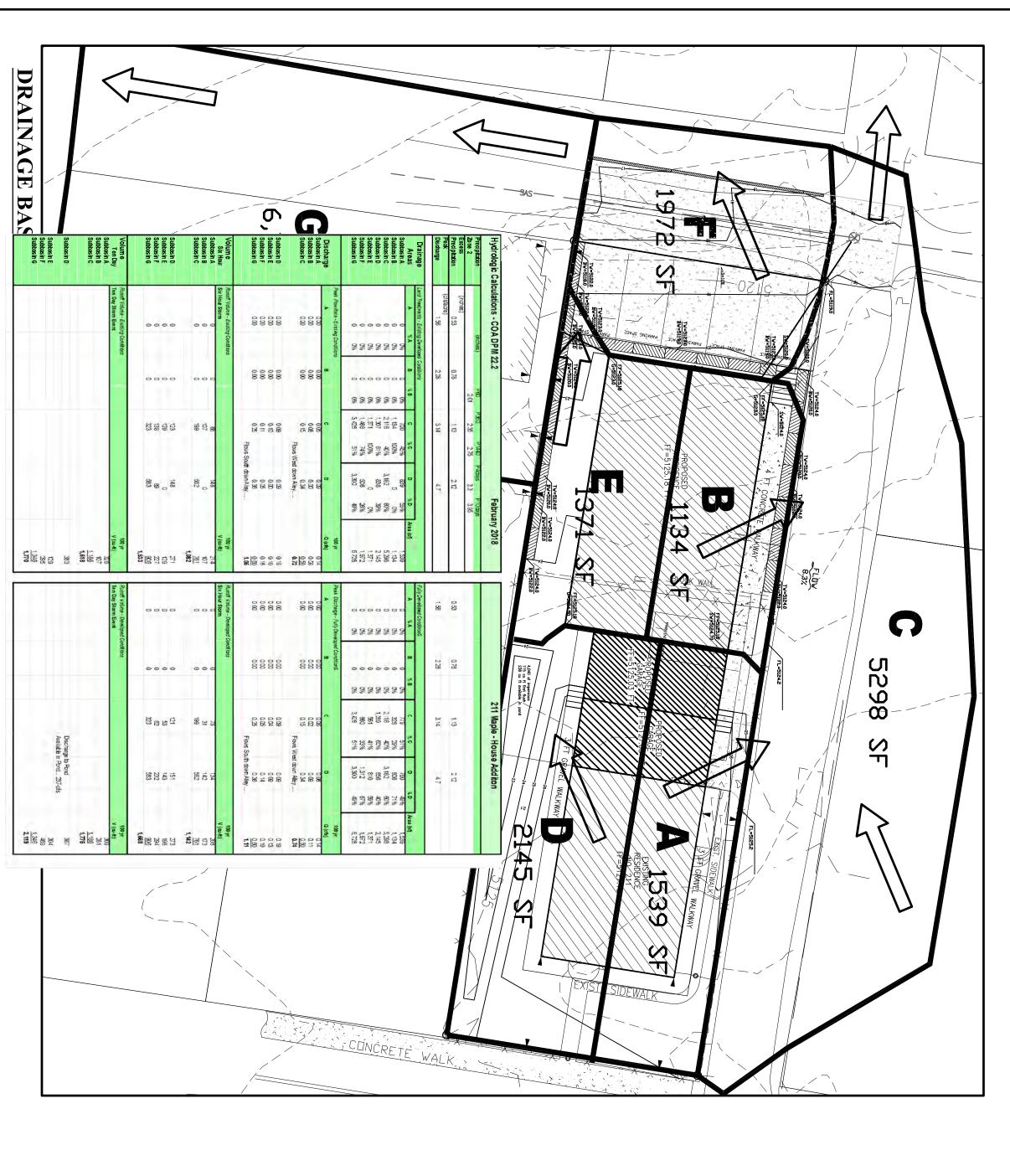
www.cabq.gov

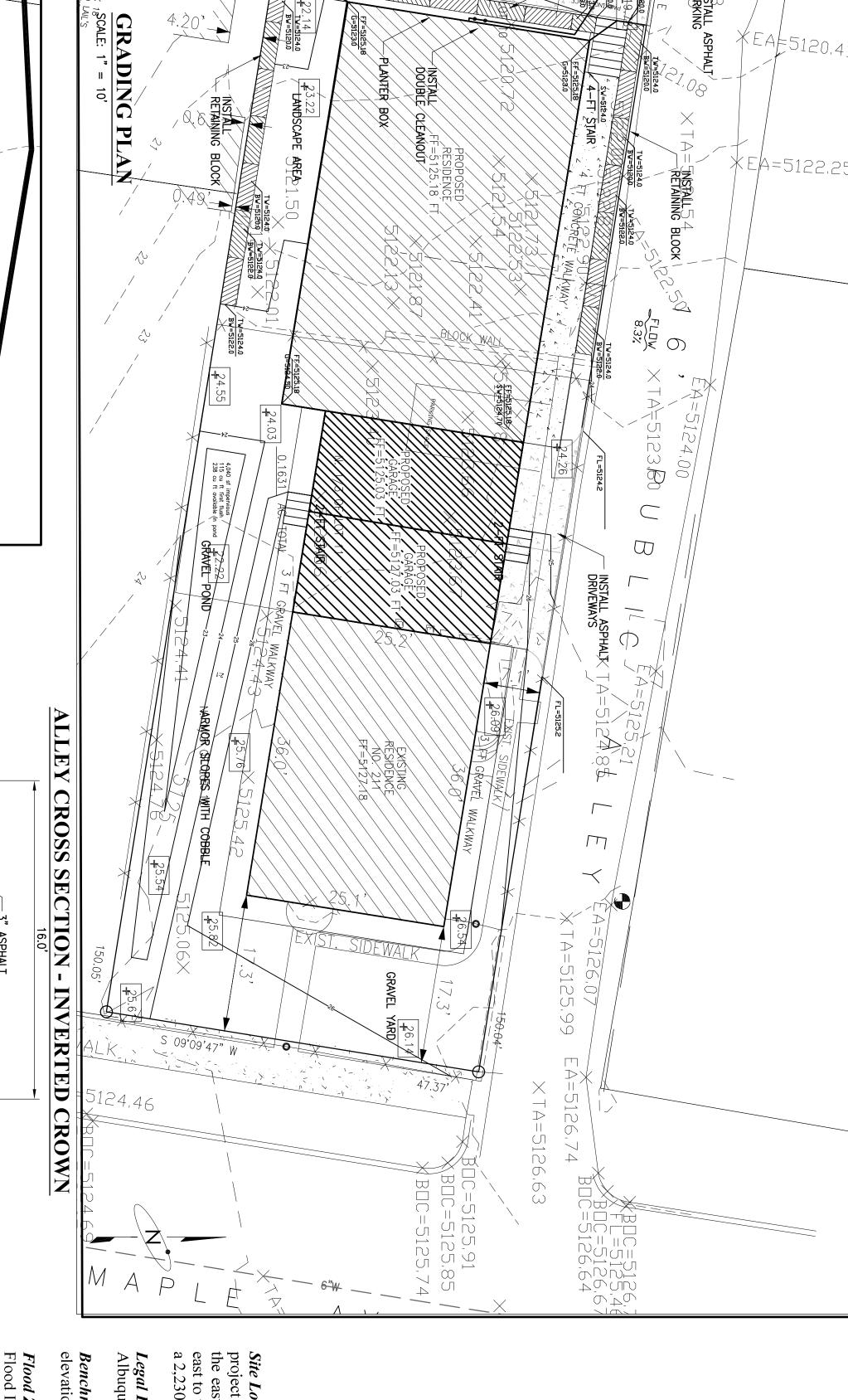
Renée C. Brissette, P.E. CFM

Renée C. Brissette

Senior Engineer, Hydrology

Planning Department





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MAPK-15

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- SAWCUT EXIST

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PARKING PARKING

I, Mark Burak, NMPE 10987, OF THE FIRM Burak Consulting, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED February 28, 2018. THE

Field inspection in October 2018 instigated an update to the design by City Engineer. Driveway slope was assessed as too steep. To mitigate that, retaining blocks were installed and an updated drawing was submitted to

City Engineer.

The stacked retaining block is one block higher than design showed which brought the top of wall to the same elevation as the finish floor. Concrete was then added in the one to two foot wide area between the wall and the building where a planter was anticipated.

Hya

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THE RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

10987

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DRAINAGE CERTIFICATION WITH SURVEY WORK BY PROFESSIONAL SURVEYOR

Boulevard.

RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY Tony Harris, NMPS 11463 OF THE FIRM The Survey Office, Inc. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON February 11th, 2019 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR Certificate of Occupancy. indicated by spot elevations and contours; 2) the limit of existing and proposed grades indicated by spot elevations and contours; 2) the limit of existing and proposed improvements. A 3.5-foot stem wall is proposed along the sides of the proposed building to minimize on-site grading. Two feet of the stem wall is to remain exposed next to a planter box. A four foot retainer block will then be placed near the footing to reduce the slope on the parking area. Additional retaining blocks will be placed along the southern and northern property lines to provide walkway and landscape areas within the property. These walls will also contain the proposed structure. A retention pond is shown on the south side of the existing structure to control the first flush requirements. A swale along the southern edge of the structure will ensure positive drainage to the west from the southern portion of the property and will eliminate crosspos lot

A four inch schedule 40 PVC sewer service is to be installed and connected to the existing line in

alley as shown on the Plan.

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First Flush Management – The first flush has been mitigated based on 4,040 square feet of the project site to be impervious. This equates to an area of 4,440*0.34/12 or 115 cubic feet. This storage has been provided on the plan by depressing the south side yard area one foot. The maximum volume of the proposed pond is 238 cubic feet.

peak flow rates at various points around the project site culminating at either the existing alleyway intersection or Copper Ave. The calculations which appear hereon analyze both the existing and developed conditions for the 100-year, 6-hour rainfall event. The process outlined in the DPM, Section 22.2 was used to quantify the peak flow rates and volumes. As shown by these calculations, the fully developed improvements will result in a negligible increase in runoff generated by the site. Downstream capacity is sufficient to carry the entire peak runoff of 1.11trologic Methods proposed improvements will slightly increase the existing peak runoff by less than one cubic per second as shown on the calculations. A spreadsheet for Precipitation Zone 2 is included his plan. This spreadsheet outlines the peak runoff and volume generated for each subbasin existing and proposed fully developed and paved conditions. Percentage of each land the design storm. The drainage basin map shows seven separate subbasins A-G to assess

Location - As shown by the Vicinity Map (Zone Atlas Map K-15), the proposed residential lect site is located on a single lot parcel at 211 Maple Street north of Copper Ave. At present, eastern portion of the site is developed with an existing residence and drains roughly from to west into the existing inverted crown alleyway. The purpose of this project is to construct 230 square foot addition with garages, pavement, and parking facilities.

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al Description - Lots uquerque, New Mexico. 10-A and 10-B Brownewell Lails Highland Addition, City

Benchmark - Basis of elevation elevation stamped 5,047.763 feet. is from City of Albuquerque bench mark "4-K15" with

od Zone - As shown by Panel 334G of 825 of the National Flood Insurance Program od Insurance Rate Maps (FIRM) for the City of Albuquerque, New Mexico, dated September 2008, this site does not lie within a designated flood hazard zone.

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Existing Conditions - Currently, the project site drains from east to west across the partially undeveloped 7,105 square foot lot to the existing 16 foot alleyway adjacent to the westerly property boundary. The western half of the lot is unimproved and used for parking. The only offsite runoff impacting the site is generated on or near the existing alleyway that runs along the northern property boundary. All other offsite runoff is contained within the extents of Maple Street and is diverted south to Copper Avenue. The runoff generated on site is carried west in the inverted crown paved alleyway to Sycamore Street where it then turns south to Copper

12" OF SUBGRADE

Mark H. Burak, P.E. 1512 Sagebrush Trail SE Albuquerque, New Mexico, 87123 (505) 296-0461

of PROFESSIONAL 02/28/2018 11/17/2018

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

LOCATION

211 MAPLE AVE.

GRADING, DRAINAGE, UTILITY

PROPOSED RESIDENTIAL ADDITION