DRAINAGE INFORMATION SHEET

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| ENGINEERING FIRM: BUKTON ENGINEERING | CONTACT: DICK RADICTIONS |
| ADDRESS: P.O. BOX 7530 STATION IS | PHONE: 686666 |
| OWNER: <u>252/264 Provocati</u> 57/4 | CONTACT: |
| ADDRESS: DAYOTA SE | PHONE: |
| ARCHITECT: MANIMAN & MILES | CONTACT: TORY (TO MARKET AND |
| ADDRESS: 414/2 CENTRALSE HO | |
| SURVEYOR: | CONTACT: |
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| ADDRESS: | PHONE: |
| CONTRACTOR: | CONTACT: |
| PRE-DESIGN MEETING: YES NO COPY OF CONFERENCE RECAP SHEET PROVIDED | DRB NO EPC NO PROJ. NO |
| TYPE OF SUBMITTAL: CH | HECK TYPE OF APPROVAL SOUGHT: |
| DRAINAGE REPORT | SKETCH PLAT APPROVAL |
| | PRELIMINARY PLAT APPROVAL |
| | SITE DEVELOPMENT PLAN APPROVAL |
| GRADING PLAN EROSION CONTROL PLAN | FINAL PLAT APPROVAL BUILDING PERMIT APPROVAL |
| | FOUNDATION PERMIT APPROVAL |
| | CERTIFICATE OF OCCUPANCY APPROVAL |
| | ROUGH GRADING PERMIT APPROVAL |
| · | GRADING/PAVING PERMIT APPROVAL |
| | OTHER (SPECIFY) |
| DATE SUBMITTED: DURA MARCHINE | |



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

Ken Schultz Mayor

UTILITY DEVELOPMENT DIVISION HYDROLOGY SECTION (505) 768-2650

February 3, 1987

Dick Burton Burton Engineering, Inc. Post Office Box 75310 Albuquerque, New Mexico 87194

> RE: REVISED DRAINAGE PLAN FOR TRI-PLEX APARTMENTS (K-16/D27) ENGINEER'S STAMP DATE JANUARY 27, 1987

Dear Mr. Burton:

Based on the information provided on your submittal of January 29, 1987, the above referenced drainage plan is approved for Building Permit. Please be advised that on future submittals you will need to include:

- 1. Finish floor elevation to full mean sea level designation (for example, 5182.29).
- 2. Both top of curb and flow line elevations on the
- 3. Volume computations using the SCS curve number.
- 4. Complete calculations for the undeveloped, developed and volume rates.

Also, prior to Certificate of Occupancy release, we will need concurrence of all work gone within the public right-of-way.

Please attach a copy of this approved plan to the construction sets prior to Hydrology sign-off.

If I can be of further assistance, please feel free to call me at 769-2650.

Cordially,

arnei J. Montago

Engineering Assistan

PUBLIC WORKS DEPARTMENT BUM/asi

Walter Nickerson, P.E., City Engineer

ENGINEERING GROUP

- Telephone (505) 768-2500

MAHLMAN & MILES ARCHITECTS

29 January 1987

Mr. Bernie Montoya, Engineering Assistant Hydrology Section of Public Works Department City of Albuquerque P.O. Box 1293 Albuquerque, New Mexico 87103

RE: Tri-Plex Apartments - 401 Vassar SE

Dear Mr. Montoya,

As you requested this letter is being sent to document our conversation of today regarding the above referenced project. As you know the Owner of the above reference property and project, Mr. George Provoost, intends to utilize the City alley which is to the west of his property to access five (5) parking spaces for the new tri-plex apartment development. Mr. Provoost is aware that the portion of the alley which he will utilize, as well as a new concrete drivepad at Coal, are required to be paved at his expense per City approved alley grades.

Mr. Provoost, a licensed general contractor, desires to construct the alley paving and drivepad per City Standards. He has decided to meet City Standards for this construction to assure a quality installation and so that the City can assume maintenance responsibilities once the construction has been completed.

To this end, Mr. Provoost has requested that City Engineering prepare alley grades for this construction; he has also arranged with City Engineering to prepare construction documents for these alley and drivepad improvements to assure compliance with City Standards and to expedite the process (attached is a copy of the design fee deposit which represents approximately 25% of the total estimated design fee).

City Engineering has indicated to me that the alley paving and drive pad construction documents will be ready in approximately two months for Mr. Provoost to begin the construction of these alley improvements. If Mr. Provoost

begins construction on the new apartment building in early February, he anticipates that he would not be ready to begin work on the alley improvements until some time in April. This schedule will coincide well with the preparation of the alley design by City Engineering. (Please note that the site drainage report, prepared by Mr. Dick Burton of Burton Engineering, Inc. included a conceptual study of the interface of this site withthe alley. Since the site is the end lot on the north and low end of the alley at Coal, this interface is to a great degree dictated by the existing elevations of Coal).

Mr. Provoost understands that the alley paving and drivepad improvements must be constructed in accordance with the approved alley grades and the paving design which is being prepared by City Engineering prior to his project receiving a certificate of occupancy from the City.

I have reviewed this letter with both Mr. Provoost and with Mr. Greg Olsen of City Engineering, who have affixed their signatures below.

Should you have any additional questions please call me.

Sincerely,

Christina M. Miles

David S. Mahlman

Date: 2-2-87

George Provoost

______Date: 2-2-87

WIN Malel

Mr. Greg Olsen

Plaza Escalante
414-1/2 Central SE - Number 4
Albuquerque, New Mexico
87102

BURTON ENGINEERS, INC.

P. O. BOX 75310 STATION 14 ALBUQUERQUE, NM 87194 (505) 836-6540

January 26, 1987

Mahlman and Miles Architects
414 1/2 Central SE
Albuquerque, NM 87102 HYDROLOGY SECTION

Re: Triplex Apartments at Vassar and Coal SE., 1/13/87 K-16/D27 Letters from Bernie Montayo

Dear David;

Attached is the revised Drainage Plan for the referenced project. We have answered the comments in the letter as follows:

We revised our calculations to use the SCS curve number method with the following results:

Hydrologic Soil Group B - Wink-Embudo Complex Percent Impervisions - 66% Composite $C_n = 94$ Existing Runoff - 1.7" Final Runoff - 2.1" Volume -

Existing = 0.42 cfs Final = 0.53 cfs

- 2) We discussed the alley grades and understand the City is to do this work.
- 3) The condition to allowing free discharge was that we perform the calculations for inlet capacity. These calculations are as follows:

We used the Albuquerque Master Drainage Plan by Bohanan and Houston Sheet K-16, Volume 1 for the contours in areas that we have not surveyed and the Albuquerque storm sewer plans for catch basin locations. The catch basins that will service the proposed project are located at the NE and SE corners of Coal and Princeton. The contour map shows that no flows west of Princeton will be tributary to these inlets.

The area that is served by these catch basins is shown on the attached map. The total is 5.55 acres with the south basin having a tributary area of 4.25 acres.

The C_n for this area is 75 based on a survey of the area. These are 2 apartment buildings and the remainder are single family residents of approximately 900 ft² on 50'x 40'+ lots.

$$Qp = (1.7)(4.25) = 7.2 cfs$$

The street slope on Coal Avenue is 1% to the west. Depth of flow above the gutter grade will be approximately 0.6%. The capacity of the double C inlet would be 9 cfs +. The increased flow from the project is about 0.1 cfs and is not a significant change in the inlet capacity.

We have corrected all the elevations to City of 4) Albuquerque bench marks and set a TBM at the curb return on the SW corner of Coal.

Plan Drawings

- Elevations corrected to MSL.
- V2) We have added elevations 25' from the property on all
 - T/C and the elevations are shown to MSL. Flouring in future Single 3)
 - 4) Elevations not to complete
- √5) Elevations
 - %) Elevations
 - 7.) We have added a legend.
 - We have added flow arrows.

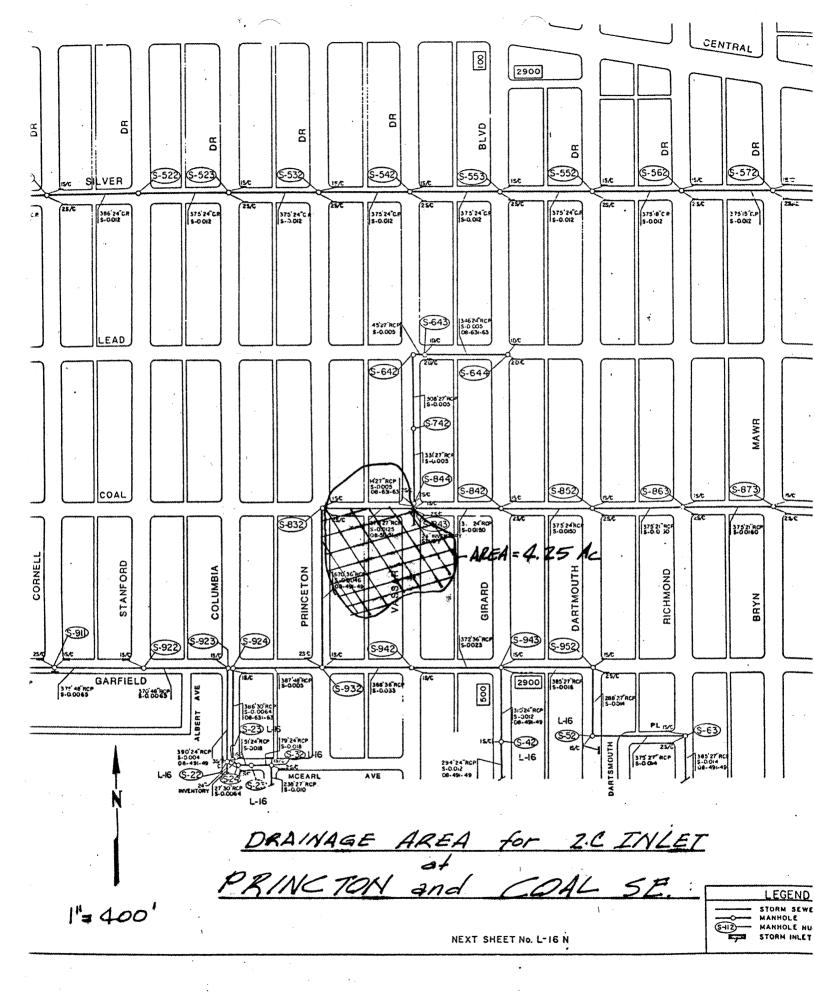
If you have any questions, please call.

Sincerely

Richard L. Burton, P.E.

/jb

enclosures







City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

January 13, 1987

Dick Burton Burton Engineering, Inc. Post Office Box 75310 Station 14 Albuquerque, New Mexico 87194

RE: DRAINAGE PLAN FOR TRI-PLEX APARTMENTS (K-16/D27) RECEIVED JANUARY 9, 1987

Dear Mr. Burton:

A preliminary review of your submittal for building permit approval has shown that the following information is lacking for this section to begin the review process:

INFORMATION NEEDED:

- 1. Use the S.C.S. curve number method for volume calculations per D.P.M.
- Building Permit will not be issued until approved City alley grades along with a copy of the application for license agreement is submitted to our office for our records.
- Downstream facility capacity must be analyzed before free discharge may be granted.
- Benchmark location, description, and elevation of the:
 - a. Albuquerque Control Survey Vertical Datum
 - b. Temporary benchmark on-site.

Dick Burton January 13, 1987 Page 2

PLAN DRAWINGS:

- 1. Spot elevations adequately showing conditions on-site (to mean sea level).
- 2. Contours and spot elevation extending a minimum of 25' beyond property line.
- 3. Existing City top of curb and <u>flow line</u> elevations with mean-sea-level designation.
- 4. Finish building floor elevation with complete mean-sea-level designation.
- 5. Location and direction of roof drains.
- Required spot elevations for the standard City drivepad.
- 7. Legend See D.P.M. Manual Vol. 2 tables 27.3a 27.3d for recommended standard symbols.
- 8. Flow pattern defined by arrows and spot elevations with mean-sea-level designation.

Please provide this information so that we may process your request as expediently as possible.

Cordially,

Served. Matoga
Bernie J. Montoya, C.E.
Engineering Assistant

