

September 23, 1987

BOHANNAN-HUSTON INC.



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Mr. Jim Fink  
 Planning & Programming Hydrologist  
 City of Albuquerque  
 P.O. Box 1293  
 Albuquerque, NM 87103

Re: Phase III--Final Developed Conditions Report of the Restudy of AMDS  
 Volume II.

Dear Jim:

Enclosed you will find the following:

1. Ten copies of the Phase III-Final Developed Conditions Report, AMDS Volume II.
2. One copy of the Cost Estimates for Proposed Projects.

The previous copy of the Existing Conditions HYMO Computer Model submitted to the City is current and valid, as is the previously submitted Technical Manual. This manual contains the HYMO Systems Model for the 100-year storm for developed conditions with improvements installed along with instructions for use of the new HYMO summary table options.

This letter addresses City of Albuquerque comments on the previous Phase II Developed Conditions Report, AMDS Volume II delivered to Bohannon-Huston, Inc. in a July 16, 1987 meeting. Since most of these comments were presented to Bohannon-Huston, Inc. orally, the oral comments will be repeated below with the Bohannon-Huston, Inc. response following the comment.

Dan Sabo's (AMAFCA) Comments:

**Comment:** Geneva's Arroyo has been misspelled several places.

**Response:** Complied.

**Comment:** Page 38 Zone Atlas (ZA) reference L22 should be L21.

**Response:** Complied.

**Comment:** Pages 39 & 40. Street names for Geneva's Arroyo projects are incorrect.

**Response:** Complied.

PRINCIPALS

LARRY W. HUSTON

MICHAEL M. EMERY, P.E.

DANA C. WOOD, P.E.

ANDRES ARAGON-VIAMONTE

DARRELL L. WADE, P.E.

JAMES V. DOMENICK, P.E.

BRIAN G. BURNETT, P.E.

Dan Hogan and Jim Fink's Comments:

Comment: Sheet N-15. Modify flooding to reflect new 60" pipe extension.

Response: Completed.

Comment: On sheets 9 & 10, place bar graphs of rain increments.

Response: Cumulative increments are available in the computer model. We feel that adding a bar graph would create confusion with what we are trying to depict and feel it is better left off.

Comment: Clarify jurisdiction of City and AMAFCA.

Response: Completed.

Comment: A storm sewer is needed just east of San Pedro on San Juan to collect flow exiting the Fairgrounds and crossing San Pedro.

Response: Completed. See Project 2-16-1D.

Comment: Page 13. Remove "Under City of Albuquerque direction" from second sentence, second paragraph.

Response: Modified sentence.

Dwayne Sheppard's Comments:

Comment: Show improvements on general mapping.

Response: Completed.

Comment: Need statement at front of report saying the analysis and proposed improvements in this report supersede the previous Volume II AMDS.

Response: Completed.

Comment: Identify system improvements by numbers.

Response: Completed.

Comment: Show flow arrows on improvements.

Response: Completed.

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**Comment:** List plates in Table of Contents.

**Response:** Complied.

**Comment:** Page 17. Justify use of pressure flow analysis in isolated reaches.

**Response:** Complied.

**Comment:** Page 17. Statement about Subbasin W1 catch basins is confusing.

**Response:** Statement was deleted.

**Comment:** Add ZA index to Plate 1.

**Response:** Complied.

**Comment:** Page 31, paragraph 4. State that Hydraulic Grade Line was below the gutter level.

**Response:** Complied.

**Comment:** Page 32. Change Lovelace Medical Center to VA Hospital.

**Response:** Complied.

**Comment:** Page 35. Explain why 10-year intersectional flooding is not shown on mapping.

**Response:** Complied.

**Comment:** Add a priority letter in the project number.

**Response:** Complied.

**Comment:** K-21. Delete proposed improvement in bar ditch.

**Response:** Complied.

**Comment:** L-21. Change "Singing Arroyo" to "Singing Arrow".

**Response:** Complied, though less poetic.

**Comment:** H-18. Include 36" pipe at San Mateo/I-40 interchange project in improvement description.

**Response:** Complied.

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Comment: J-16. Label the two separate projects on this sheet.

Response: Completed.

Comment: L-15 Garfield Street is not shown on L-15. Need to reference additional ZA sheet.

Response: Completed.

Comment: L-21. Check lengths of 120" and 42" pipes.

Response: Completed. Adjustment made.

Comment: Tab IV. Put project numbers on improved performance.

Response: Completed.

Comment: Don't refer to job phases in final report.

Response: Completed.

Comment: Contents of Tabs do not match table of contents.

Response: Dwayne's copy had wrong tab numbers. All other copies were OK.

Comment: Change all "1:500 mapping" to "1"=500'.

Response: Completed.

Comment: Page 49. Check wording of recurrence interval statements.

Response: Completed.

Comment: L-15. Label Geneva's Arroyo.

Response: Completed.

Comment: Tab 4. Needs explanation of material presented.

Response: Completed.

The following comments were received in written form, so only responses will be presented here:

#### Carlos Montoya's Comments:

Comment 1: The formula is correct. Clarification was added.



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- Comment 2:** It was decided to leave the study in its current form and re-analyze the areas in question for the FIA submittal.
- Comment 3:** The word "Composite" was added to the Curve No. column and a footnote added stating that the Impervious Curve Number=95.
- Comment 4:** The soils report used was the SCS Bernalillo County Survey as stated in the report.
- Comment 5:** It is the judgment of the engineer that the soil survey groups are representative of the existing infiltration after urbanization.

**Comments of Steve Bockemeier:**

- Map J-17:** Complied.
- Map J-20:** The interceptor on Moon is outside the study area.
- Map K-22:** The referenced lines are outside the study area.

**Comments of Cynthia Bruce:**

- Comment 1:** Land use for the study was determined from aerial photographs and field reconnaissance, and is acceptable to City personnel.
- Comment 2:** The Facility Plan for Arroyos shows no future planning for the arroyos in the study area.

Copies of the written comments by Carlos Montoya, Steve Bockemeier and Cynthia Bruce are attached. If you have any questions or comments, please call our office.

Sincerely,



Butch Gerbrandt, P.E.  
Project Manager

/dam

Enclosures

Job No. 86274.08

# CITY OF ALBUQUERQUE

ALBUQUERQUE, NEW MEXICO

INTER-OFFICE CORRESPONDENCE

REF. NO. \_\_\_\_\_

July 13, 1987

TO: Jim Fink, Principal Engineer, Hydrology Special Projects, Planning  
Group, Public Works Department  
FROM: Cynthia Bruce, Chief of Advance Planning, Planning Department *C.B.*  
SUBJECT: COMMENTS ON DRAFT DEVELOPED CONDITIONS REPORT - RESTUDY OF  
ALBUQUERQUE MASTER DRAINAGE STUDY VOLUME II

Thank you for the opportunity to review the draft AMDS Volume II restudy. The source of the data used for assumptions regarding pervious and impervious surfaces and associated land-uses is not stated in the report. The Planning Department has a computerized parcel-based land-use file available that can give extremely accurate data concerning land-use and acreages. Without knowing the source of the data in the report, I can not comment on its appropriateness to the study. If the purpose of the restudy is to obtain the most accurate figures possible, you may wish to investigate the capabilities of the parcel-based data file.

Any improvements to the arroyos discussed in the adopted Facility Plan for Arroyos should consider the policies of the plan. A footnote to that effect or a footnote referencing the Facility Plan for Arroyos would be appropriate in the document. A small discussion in the text itself would also be useful where appropriate.

CB/3700