HYDROLOGY

F21/D31

F21/D31

OSO GRANDE

UNIT D

4 PLANS

ENGINEERS & PHOTOGRAMMETRISTS

BOHANNAN-HUSTON INC.

4125 CARLISLE BLVD., N.E. ALBUQUERQUE, NEW MEXICO 87107 505 881-2000

September 24, 1981

RECEIVED
OCT 1 1981
CITY ENGINEER

F21-D31

Mr. Charles M. Easterling
Principal Assistant City Engineer
Hydrology
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

Re: Conceptual Drainage Report for Oso Grande – Unit D

Dear Chuck:

Enclosed, for your review, is a Conceptual Drainage Report for Oso Grande – Unit D. As shown on the plates, the project is broken into two phases, the northerly phase which we would like to start construction on in approximately March of 1982, and the southerly phase which will be built sometime in the future.

If you should have any questions concerning the Conceptual Drainage Report, please feel free to contact this office.

Sincerely yours,

Michial M. Emery

Michial M. Emery, P.E.
Vice President

cc: Mr. David Kochert
Mr. Chuck Walek

Enclosure

MME/js
Job No. 1 142 1

City of Albuquerque
P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

F21 - D31

November 10, 1981

Mike Emery
Bohannan-Huston, Inc.
4125 Carlisle Blvd. N.E.
Albuquerque, N.M. 87107

RE: OSO GRANDE UNIT D CONCEPTUAL DRAINAGE REPORT

Dear Mike:

The above referenced conceptual report is acceptable. I see no problem with discharging a small amount of runoff to the west as long as a written approval is obtained from the owner. Plans are currently in our office for the storm sewer in Morris from Spain to the Bear Arroyo, I will forward any pertinent information.

If I can be of any further help, please call.

Sincerely,

Jim Fink
Civil Engineer/Hydrology

JF/tsl

CONCEPTUAL DRAINAGE REPORT
FOR
OSO GRANDE – UNIT D

PREPARED FOR

THE GRUPE COMPANY
2291 West March Lane
P.O. Box 7576
Stockton, California 95207

PREPARED BY

Bohannan–Huston, Inc.
4125 Carlisle Blvd., NE
Albuquerque, NM 87107

STATE OF NEW MEXICO
MICHIAL M. EMERY
No. 5194
9-25-84
REGISTERED PROFESSIONAL ENGINEER

Michial M. Emery, P.E.
N.M.P.E. No. 5194

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Preliminary Grading Plan

CONCEPTUAL DRAINAGE REPORT
FOR
OSO GRANDE – UNIT D

UPLAND DRAINAGE CONDITIONS

Oso Grande – Unit D is bordered on the north by Spain Road, on the east by Morris Street, on the south by the Bear Canyon Arroyo and on the west by unplatted land and the church site. Under existing conditions, flow from the east crosses the property and excessive flows in Spain Road, have a potential to overtop the curb and flow across the northerly portion of Unit D. The AMWOOD Joint Venture is presently having Morris Street designed, and the storm sewer in Morris Street designed to relieve the problems on Spain Road. The upland flows from Spain Road and from the property to the east will be intercepted by these facilities and conveyed to the Bear Canyon Arroyo.

An easement is being granted across the southerly phase of Oso Grande – Unit D as a route for the storm sewer to convey flows to the arroyo. We have coordinated our plans with AMWOOD to insure that proper inlet structures are designed on the channel for the large storm sewer and for the storm sewer that will service our project.

We propose that our earthwork begin after Work Orders and Contracts have been issued for the construction of Morris Street and the Spain Road storm sewer to insure the city that these facilities will be in place, prior to our construction being completed.

INTERNAL DRAINAGE

Phase I of Oso Grande – Unit D is shown on Plate 1 of this report. It is proposed that drainage from our site flow in the streets to the southwest corner of the project. At this location, the flow will be picked up in a storm sewer and conveyed to the second phase of our project, as shown on Plate 2. With Phase I construction, the storm sewer will be extended an adequate distance into Phase II of the project to insure that no damage will occur to Phase I from this discharge. Until Phase II is constructed, this discharge will be carried in a temporary earthlined channel to the Bear Canyon Arroyo inlet. The inlet will be designed to initially accept the flows from this temporary channel and ultimately accept the construction of the storm sewer to be installed through Phase II. A desilting basin will be provided at the end of the temporary earthlined channel to insure that excessive amounts of silt are not introduced into the Bear Canyon Arroyo when it is improved.

Phase II internal drainage will flow down the two major streets that connect Morris to the westerly portion of the project. The flows from these two streets will enter the storm sewer extension which will be constructed during Phase II of Oso Grande – Unit D. The temporary earthlined channel will be abandoned in favor of the storm sewer at this point in time. The storm sewer will outfall to the Bear Canyon Arroyo. No internal retention or detention is proposed for either Phase I or Phase II of Oso Grande – Unit D.

We propose that free discharge from the project will be conducted to the Bear Canyon Arroyo and that the construction of the improvements to the Arroyo del Oso Dam, downstream, will have capacity to handle these increased developed flow rates

It is desirable that a small amount of runoff be allowed from our development to the properties to the west. This runoff will be generated only from landscaped areas that will exist in the rear of the units. These landscaped areas will be appropriately stabilized so that no sediments will be conducted to the property located to the west. If this type of drainage solution is in fact desired, it will be our responsibility to acquire permission from the Owners to the west that will allow us to do this.