HYDROLOGY K20/D23 1 PLAN

K20/D23

1 Plan

OPSTEDAL CONSTRUCTION
& ENGINEERING CO.

Anthony J. Opstedal owner

1832 Christine Street, N.E.
Albuquerque, New Mexico 87112
(505) 299-5577 / License #17327

DRAINAGE INFORMATION SHEET

PROJECT TITLE: _____ ZONE ATLAS/DRN. FILE #: K-20 / D23

LEGAL DESCRIPTION: Track 2 (E) Waggoman - Denison

CITY ADDRESS: 9130 Central S.E

ENGINEERING FIRM: ~~N/A~~ (Same as Contractor) CONTACT: _____

ADDRESS: _____ PHONE: _____

OWNER: Kayder Joseph CONTACT: _____

ADDRESS: 1513 Bratlight Dr, NE PHONE: 294-0374

ARCHITECT: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

SURVEYOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: Anthony J. OPSTEDAL CONTACT: 299-5577

ADDRESS: 1832 Christina St., NE. PHONE: _____

PRE-DESIGN MEETING:

____ YES

____ NO

____ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO. _____

EPC NO. _____

PROJ. NO. _____

TYPE OF SUBMITTAL:

____ DRAINAGE REPORT

✓ DRAINAGE PLAN

____ CONCEPTUAL GRADING & DRAINAGE PLAN

____ GRADING PLAN

____ EROSION CONTROL PLAN

____ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

____ SKETCH PLAT APPROVAL

____ PRELIMINARY PLAT APPROVAL

____ SITE DEVELOPMENT PLAN APPROVAL

____ FINAL PLAT APPROVAL

✓ BUILDING PERMIT APPROVAL - 700 ft² Addition only

____ FOUNDATION PERMIT APPROVAL

____ CERTIFICATE OF OCCUPANCY APPROVAL

____ ROUGH GRADING PERMIT APPROVAL

____ GRADING/PAVING PERMIT APPROVAL

____ OTHER _____ (SPECIFY)

DATE SUBMITTED: 3-10-86

BY: Anthony J. Opstedal

James Innis
August F. Mosimann
Paul Sierra

engineering associates, inc.

1840
Lomas Boulevard, NE
Albuquerque, N.M.
87106
(505) 242-7522

July 17, 1984

Mr. Billy J. Goolsby
City/County Flood Plan Administration
Design Hydrology Section
123 Central N.W.
Albq., N.M. 87102

Re: Grading and Drainage Plan for
Retail Outlet (K 20-D23)

Dear Mr. Goolsby:

This letter is a reply to your comments received July 13, 1984, on the above referenced project.

1. The offsite flow tributary located to the east of the property consists of bare land. It's area is 3,250 square ft. (.07 acres).
   It's C factor is 0.36.
   The 100 year flow rate is Q=CIA=.36 x 5.38 x 0.07= .14 CFS.
   The 100 year volume is X=CPA=.36 x 2.5 x 3250/12=244 cu ft.

This flow becomes part of the flow entering Zuni Avenue to the south of the site. It is directed there within the same swale which conveys the on-site flows to Zuni Avenue.

2. The flow which had been shown discharging onto the land to the west will be intercepted by a 6 in wide curb with a minimum height of 6 in.

3. The downstream flooding condition at Zuni and Wyoming and at Central and Wyoming are not going to be alleviated by the addition of new storm facilities in the near future. Therefore, since the Zuni Avenue runoff from our site is greater than it was before development, we will provide a retention basin to intercept the flow before it enters Zuni. It will be sited to contain the difference in runoff between the developed and undeveloped sites.

   The developed runoff is 1972 cu ft, which includes the offsite flows.

   The undeveloped runoff is 1732 cu ft which also includes the offsite flows.

   The pond site therefore will be 240 cu ft.

RECEIVED
JUL 18 1984
HYDROLOGY SECTION

Architectural Structural
Civil Structural
Site Analysis
Drainage Studies
Computer Applications
Inspection Services

James Innis
August F. Mosimann
Paul Sierra

engineering associates, inc.

1840
Lomas Boulevard, NE
Albuquerque, N.M.
87106
(505) 242-7522

3. (Con't)
The Central Avenue runoff was not increased by the development, so no retention will be provided here.

If I can be of further assistance, please call.

Sincerely,

August F. Mosimann

August F. Mosimann
for
Engineering Associates, Inc.

AFM/ds

Architectural Structural
Civil Structural
Site Analysis
Drainage Studies
Computer Applications
Inspection Services