HYDROLOGY H13/D15 1 PLAN

H13/D15

1 PLAN

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

DESIGN HYDROLOGY SECTION
123 Central NW, Albuquerque, NM 87102
(505) 766-7644

November 29, 1984

Mr. John Bettis
Enchantment Engineering
P.O. Box 11571
Albuquerque, NM 87192

REF: McHENRY OFFICE BUILDING LOT 56 FLORAL GARDENS SUBDIVISION (H13-D15)

Dear Mr. Bettis:

Based on the information provided on your November 20, 1984 resubmittal, the above referenced drainage plan is approved.

Please attach a copy of this approved plan with the appropriately approved "Drainage Facilities Within City Right-of-Way" document to the construction set prior to release by the Hydrology Department.

If you have any questions or comments, please feel free to contact me at 766-7644.

Sincerely yours,

Carlos A. Montoya

Carlos A. Montoya, PE
City/County Flood Plain Admin.

CAM:BJM:mrk

INFORMATION SHEET

PROJECT TITLE McHENRY OFFICE

TYPE OF SUBMITTAL RESUBMITTAL

ZONE ATLAS PAGE NO. H-13

CITY ADDRESS 1225 RIO GRANDE BLVD. NE

LEGAL DESCRIPTION L-56 FLORAL GARDENS

ENGINEERING FIRM ENCHANTMENT (TECH)

CONTACT ED KIESS

ADDRESS 5000 MARBLE AVE., NE #305

PHONE 255-1774

OWNER

CONTACT

ADDRESS

PHONE

ARCHITECT P.G McHENRY

CONTACT

ADDRESS 324 GRIEGOS RD. NW

PHONE 345-3274

SURVEYOR

CONTACT

ADDRESS

PHONE

CONTRACTOR

CONTACT

ADDRESS

PHONE

DATE SUBMITTED 11-19-84

BY

RECEIVED
NOV 20 1984
HYDROLOGY SECTION

November 20, 1984

TECH, Inc.
5000 Marble N.E.
Suite 305
Albuquerque
New Mexico
87110

505/255-1774

Mr. Carlos Montoya, C.E.
Engineering Department- Hydrology
City of Albuquerque, New Mexico

RE: McHENRY OFFICE BUILDING, LOT 56 - FLORAL GARDENS (H13-D15)

Dear Carlos:

In response to your letter dated November 14, the following notes addressed to the contractor have been added to the above referenced drainage plan:
1) Retaining wall requires a separate permit; 2) Contractor is responsible for erosion control and abatement of sediment to abutting street right-of-way and private parcels.

As noted already on the plan, runoff released from the developed site is to be directed onto Rio Grande Boulevard and will run northward along the west curbline of that street to a Double-A type catch basin 60 feet north of Lilac Avenue. Pursuing neighborhood runoff conditions furthur, on Plate 22 of the Flood Boundary Map, City of Albuquerque, New Mexico, note the crests in gradient on Rio Grande Boulevard as indicated by the 4960-foot contour lines crossing both north and south of the development. Our field elevations pretty well replicate the spot elevations and contour lines appearing on the map and indicate that runoff from the site cannot contribute to any 100-year flood hazard zones which appear on the map. Note also that the location of the catch basins are in the sag of Rio Grande Boulevard (about half way between the 4960 contours). From information given on the map, it is apparent that the catches are intended primarily for interception of flows generated within the street and facing properties. The slope of the street in this area is .008 ft/ft towards the catch basins. The depth of flow in the street may be established by using the graph appearing on page 73 of the D.P.M. (Plate 22.3 D-4) which approximates the cross-section of Rio Grande Boulevard. Area of contribution is about 2 acres, the coefficient of runoff (developed) .90, and the Time of concentration considering the short length of run is 16 minutes. Inlet intensity is 4.2 in/hr. Peak flow rate at the catch basins is then about 7.5 c.f.s. for the entire street width. (3.75 c.f.s. for half-width) Flow depth will then be .35 foot. From Plate 22.3 D-5, each type-A catch is shown to be capable of handling about 3 c.f.s., given the .35 foot depth of flow at curbline. Double catch basins therefore should be capable of accommodating 6 c.f.s. for each half-width of street compared with the 3.75 c.f.s. peak expected flow. This assumes clean gratings, of course.

Sincerely,

Ed [illegible]
(designer, Enchantment Engineering)

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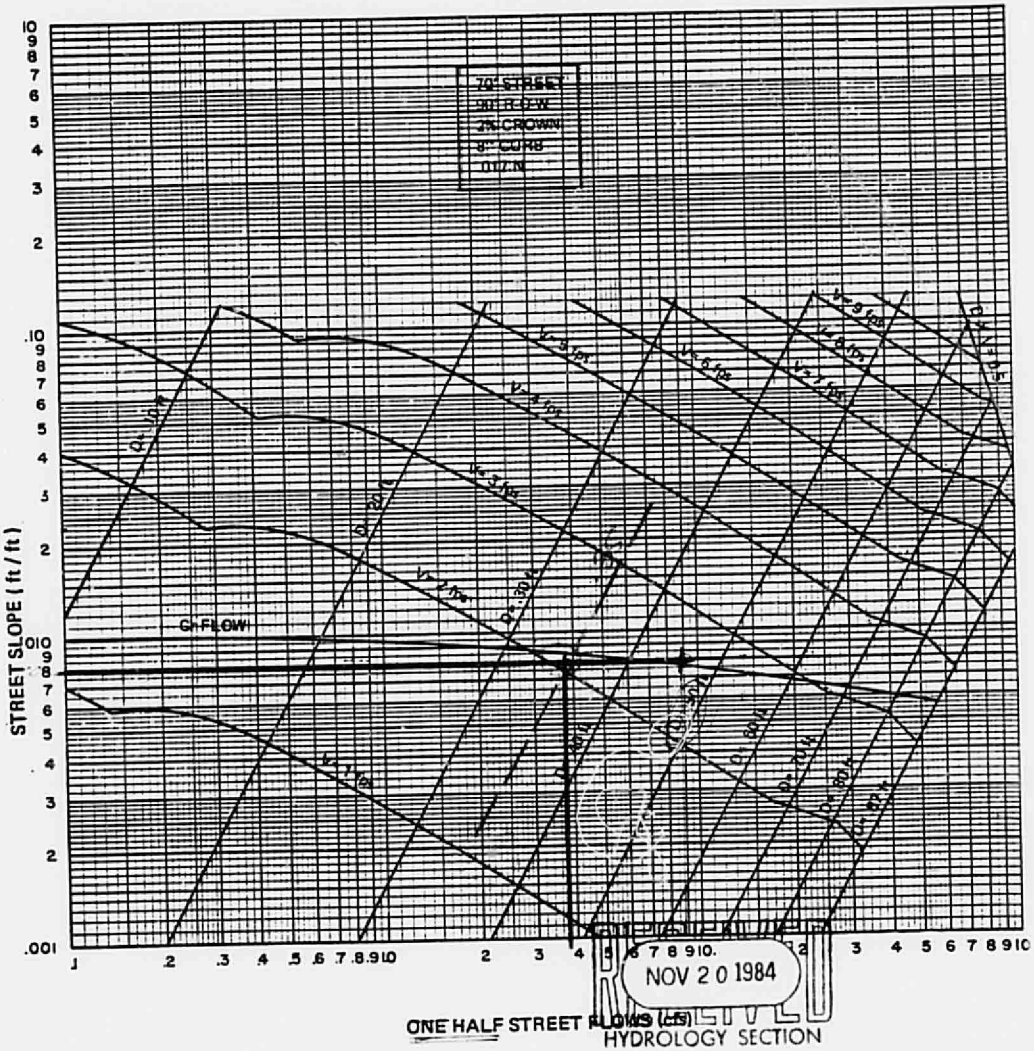
NOV 20 1984
HYDROLOGY SECTION

SEE ATTACHMENTS

STREET CAPACITY



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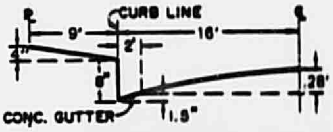
HYDROLOGY SECTION

REV. 3-83

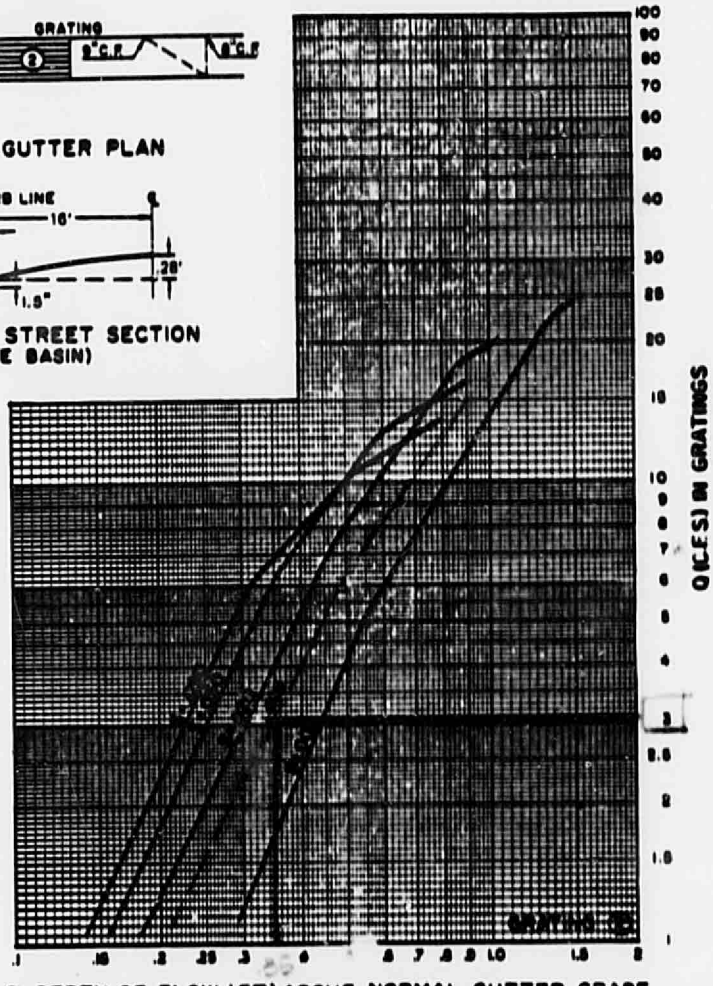
PLATE 22.3 D-4

GRATING CAPACITIES FOR TYPE "A", "C" and "D"

GRATING & GUTTER PLAN



TYPICAL HALF STREET SECTION
(ABOVE BASIN)



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HYDROLOGY SECTION

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

DESIGN HYDROLOGY SECTION
123 Central NW, Albuquerque, NM 87102
(505) 766-7644

November 14, 1984

Mr. John Bettis
Enchantment Engineering
7800 Marble Avenue NE, Suite 10
Albuquerque, NM 87110

REF: McHENRY OFFICE BUILDING LOT 56 FLORAL GARDENS SUBDIVISION (H13-D15)

Dear Mr. Bettis:

Based on the information provided on your October 16, 1984 submittal of the above referenced drainage plan, listed below you will find certain items that will need to be addressed before final approval is granted:

1. Information sheet with resubmittal designation.

2. Professional's stamp with signature and date.

3. You will need to analyze the downstream conditions in as far as street capacity in reference to the existing drain inlet capacity.

4. Separate permit for the retaining will be required by UBC.

5. Erosion control statement must be included within the plan.

If you have any questions or comments, please feel free to call me at 766-7644.

Sincerely yours,

Carlos A. Montoya

Carlos A. Montoya, PE
City/County Flood Plain Admin.

CAM:BJM:mrk

INFORMATION SHEET

PROJECT TITLE McHENRY OFFICE BLDG. TYPE OF SUBMITTAL DRAINAGE PLAN

ZONE ATLAS PAGE NO. H-18 D15 new CITY ADDRESS

LEGAL DESCRIPTION LOT 56, FLORAL GARDENS SUBDIVISION

ENGINEERING FIRM ENCHANTMENT ENG. CONTACT ED KIESS

ADDRESS BOX 11671, ABQ 87192 PHONE 255-1774

OWNER CONTACT

ADDRESS PHONE

ARCHITECT P.G. McHENRY CONTACT BUZZ McHENRY

ADDRESS 834 GRIEGOS RD NW PHONE 345-3274

SURVEYOR ENCHANTMENT CONTACT

ADDRESS PHONE

CONTRACTOR CONTACT

ADDRESS PHONE

PRE-DESIGN MEETING:

X YES
NO
X COPY OF CONFERENCE RECAP SHEET PROVIDED

PLEASE CHECK TYPE OF APPROVAL EXPECTED WITH THIS SUBMITTAL:

___ SKETCH PLAT APPROVAL
___ PRELIMINARY PLAT APPROVAL
___ SITE DEVELOPMENT PLAN APPROVAL
___ FINAL PLAT APPROVAL
X BUILDING PERMIT APPROVAL
___ CERTIFICATE OF OCCUPANCY APPROVAL
___ ROUGH GRADING PERMIT APPROVAL
___ GRADING/PAVING PERMIT APPROVAL
___ OTHER _____ (SPECIFY)

DATE SUBMITTED: 10-16-84

BY: [signature]

RECEIVED
OCT 16 1984
HYDROLOGY SECTION

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

HYDROLOGY SECTION PROJ. NO. H-13 DATE: 10-5-84

PLANNING DIVISION NO. _____

CONFERENCE RECAP

SUBJECT: Office building for P.G. McHenry @ Lomas Ave & Rio Grande

WHO	REPRESENTING
ATTENDANCE: Carlos Montoya	
Ed Kiess	

FINDINGS: ① Approved drainage plan as per DPM is required prior to issuance of building permit. ② Site discharge to be determined by analysis of downstream capacity. Not in 100 yr flood zone. Existing condition of site was a impervious area. Site does not discharge to a flooding area.

ORDER 19 FOR DRAINTHROUGH CURB SUBMITTED @ ENGINEERING DIV. 10-16-84

SMK

The undersigned agrees that the above findings are summarized accurately and are only subject to change if further investigation reveals that they are not reasonable or that they are based on inaccurate information.

SIGNED: Carlos Montoya SIGNED: _____

TITLE: Civil Engr TITLE: TECH ENCHANTMENT ENG

DATE: 10-5-84 DATE: 10-5-84