HYDROLOGY K19/D20 NO PLANS

K19/D20

No Plans

521 Dallas S.E.
3/26/81

Office of the City Engineer
Building Plans
Drainage Review

Date Issued_____

DISAPPROVED FOR DRAINAGE
3/26/81
DATE
Bonnie J Montoya
SIGNATURE
TITLE

Gentlemen:

In order to expedite the passage of building construction plans through the drainage review we have compiled this list of requirements. With a few exceptions, these requirements are complete.

(1) Any building site 1.00 acres or larger will require a formal drainage report prepared by a professional engineer licensed to practice in New Mexico. This report must be submitted to the office of the Asst. City Engineer/Hydrology for review and acceptance prior to submission of construction plans for review.

(2) Before attempting to submit a set of plans for a building located in a flood hazard area, contact the Drainage Division. Failure to do this will often result in much lost time.

(3) When construction plans are submitted, the following items must be included:

(A) A grading plan showing:

1) existing contours extending approximately 10 feet beyond the property line. If it is not feasible to provide contours beyond the property line, spot elevations, at the the property line, designated as existing and proposed may be substituted.

2) proposed contours at one foot intervals and proposed spot elevations at key points.

3) finish building floor elevation (s).

4) notes defining asphalt, sidewalks, planting areas, ponding areas, property line, and any other areas whose definition would increase clarity.

5) proposed alley grades, if property abuts a dedicated unpaved alley. These grades are available, at no charge, fro the City Engineer's office. An advance request will expedite your project.

B) A drainage plan showing:

1) direction of roof drainage including canales, gutters, and downspouts.

2) outlined contributory drainage areas, including roof areas.

3) swales with top and bottom spot elevations. Typical detail

4) curb and sidewalk spot elevations.

5) flow lines with arrows and spot elevations for confirmation. More spot elevations along swales

C) If ponding is required the drainage plan must also show:

1) calculations showing developed and undeveloped volumetric flow rate.

2) pond volume calculations.

3) that pond volumes balance with area contributing to the pond.

3.5) Close proximity of ponding to any structure requires the concurrence of a soils investigation report.

4) the pond overflow point with a spot elevation and slope protection if necessary.

5) positive discharge of ponds with required rate calculations and orifice calculations, if applicable.

D) A discussion of offsite flows must be included. If the contour maps disagree with the designers opinion of offsite flows, further information will be required.

E) A discussion of any other local conditions that effect site drainage should be included.

F) Details of ponds, curbcuts, water blocks, and any other significant drainage structures must be included.

G) The professional who designs the drainage scheme must affix his/her stamp to the drainage plan.

H) A copy of the ~~approved~~ drainage plan must also be included ~~submitted~~ with the construction plans for drainage files, ~~only prior to inspection~~.

I) Construction in the public right of way requires approval, prior to construction, from the City Engineers office.

Approved _____

R. S. Heller

J) Indicate all easements on site: Location, width, and purpose

K) Provide a benchmark based on mean sea level datum with a description of said benchmark.

L) Provide a location map with the zone atlas number and legal description.

M) Storm runoff must be routed over the drivepad or thru a city approved curb cut.

N) Also include the required elevation for the Standard City Drivepad (DWG-P-11)