HYDROLOGY G22/D7 2 PLANS

G22/D7

2 PLANS

DRAINAGE REPORT
FOR
GOLDEN SKILLET FRIED CHICKEN
SITE DEVELOPMENT
OF TRACT E BLOCK 1 HOLIDAY PARK UNIT 11
NOVEMBER 1978

PREPARED BY
ENCHANTMENT ENGINEERING
1529 EUBANK BOULEVARD, N.E.
ALBUQUERQUE, NEW MEXICO 87111

PREPARED FOR
JAYNES CORPORATION
2906 BROADWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87107

REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR NO. 3144 NEW MEXICO

TABLE OF CONTENTS

Purpose	1
Location and Terrain	1
Proposed Development	2
Upland Drainage	2
Internal Drainage	2
Conclusions	2
Computations	
Retention Requirements	A
Pond Capacities	B
Plates	
One—Location Map G-22-Z	
Two—Site Plan	

DRAINAGE REPORT
FOR
GOLDEN SKILLET FRIED CHICKEN

Purpose:

The purpose of this report is to present to governing agencies a reasonable method of complying with City Ordinance 59-1976 and thereby lessen runoff from the proposed development to an amount not in excess of the flow to be expected from the property in its present state. The report is composed of a narrative of existing and proposed conditions and computations to determine recommended runoff control structures.

Location and Terrain:

The proposed development is located on the east side of Juan Tabo Boulevard approximately 200 lineal feet from the northeast corner of Comanche Road and Juan Tabo in the northeast quadrant of the City (see Plate One for the exact location).

The property slopes from the northeast corner to the southwest corner at a rate of approximately four percent. The soil is composed of sandy silt with small amounts of clay with vegetation being limited to common weeds. With the existing slope the infiltration may be assumed to be no more than one-half inch per hour with storage of runoff almost negligible because of the grade.

Proposed Development:

The site plan indicates location of building, parking, landscaping, and stormwater ponding as well as proposed grading for drainage purposes. Parking areas are to be asphalt, the building will be of masonry construction with a composition roof, and landscaping and stormwater ponding areas are to have a natural surface (see Plate Two).

Upland Drainage:

The bulk of the upland drainage flows directly onto Juan Tabo Boulevard, but that portion which flows onto this parcel will be routed through the stormwater ponds and released through to Juan Tabo.

Internal Drainage:

A portion of the flows developed internally will be stored in retention ponds located at the front and rear of the property. The ponds shall be so constructed as to contain the six-hour, 100-year frequency storm runoff that is in excess of that generated by the property in its existing condition. The stored runoff will be dissapated by infiltration and evaporation.

Conclusions:

Flows generated by the proposed development will be partially stored on site. Those flows in excess of storage capacity will be allowed to exit to Juan Tabo Boulevard through drive pads. Downstream flows will be very slightly less than those now experienced due to slightly oversized ponds.

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11/27/78

SHEET A

EXISTING CONDITIONS

VACANT LAND, MODERATE SLOPE, LITTLE VEGETATION, RUTTED

USE $C = .40$

AREA $= (140.0)(202.22) + (178.4)/12 = 28,400 \text{ FT}^2$

TOTAL 6-HOUR RAINFALL $= (28400)(.40)(2.5)/12 = 2367 \text{ FT}^3$

DEVELOPED CONDITIONS (SEE PLATE TWO)

OPEN AREA $C = .40$

EAST SIDE	1111	FT^2
SOUTHWEST CORNER	1184	FT^2
NORTHWEST CORNER	634	FT^2
	2929	FT^2

BUILDING $C = .90$

AREA 1710 FT^2

PARKING & DRIVES $C = .92$

$28400 - (2929 + 1710) = 23,761 \text{ FT}^2$

STORAGE REQUIRED (SEE PLATE TWO FOR STORAGE PROVIDED)

$[(1710)(.90)(2.5)/12] + [(2929)(.40)(2.5)/12] + [(23761)(.92)(2.5)/12] =$

$5118.89 - 2367 = 2751.89 \text{ FT}^3$ REQUIRED

2833.00 FT^3 PROVIDED

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11/27/78

SHEET 5

STORAGE CAPACITIES (SEE PLATE TWO)

NORTHWEST CORNER - DRAINAGE DESIGNATION "A"

1051 FT^3 CAPACITY

990 FT^3 REQUIRED

USE TO DRAIN A PORTION OF THE BUILDING AND PARKING LOT

(640) + (8522) + (634) = 9216 FT^2 AREA

SOUTHWEST CORNER - DRAINAGE DESIGNATION "B"

1305 FT^3 CAPACITY

1296 FT^3 REQUIRED

USE TO DRAIN A PORTION OF THE BUILDING AND PARKING LOT

(1070) + (10926) + (1184) = 13180 FT^2 AREA

EAST SIDE - DRAINAGE DESIGNATION "C"

474 FT^3 CAPACITY

472 FT^3 REQUIRED

USE TO DRAIN A PORTION OF THE PARKING LOT

(4349) + (1111) = 5460 FT^2 AREA

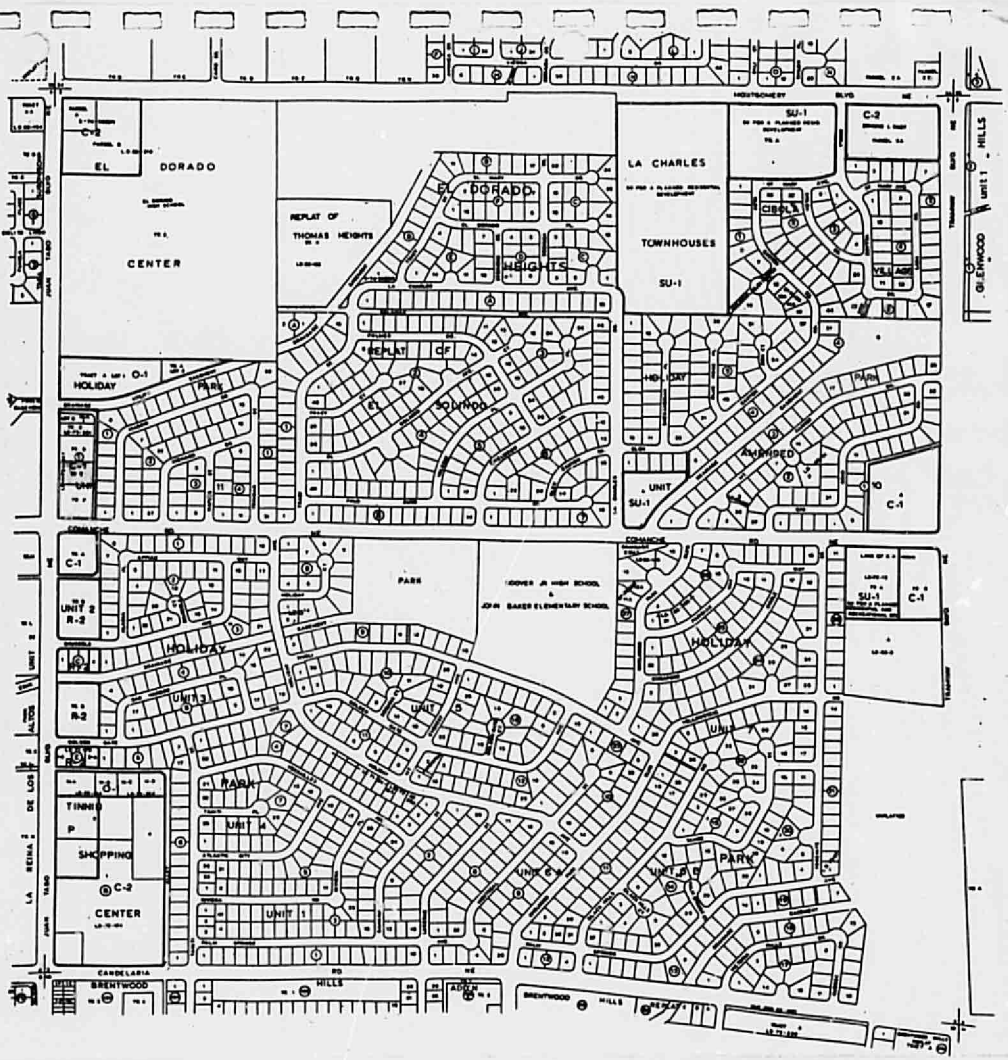

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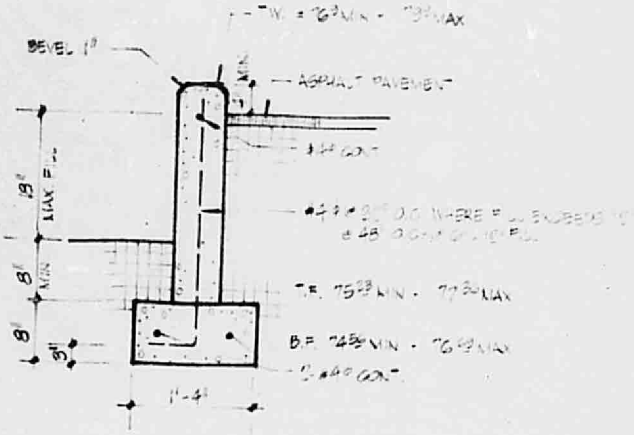
PLATE ONE

G-22-Z

ENCHANTMENT ENGINEERING Inc.
1517 EUBANK BLVD N.E.
ALBUQUERQUE, N.M.
Ph 294-6859

WALL SECTION

GOLDEN SKILLET RESTAURANT
3720 JUAN TABO BLVD NE



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