

Final plat
SUBDIVISION REPORT

SUBDIVISION COMMITTEE
METROPOLITAN AREA
PLANNING COMMISSION

S/D No.: 84-80

Name: Wilson School Addition

Preliminary Approved:

Scheduled S/D Meeting: 8-2-84

DESCRIPTION

General Location: Between Victoria and Pattie Avenues at Luther Street

Owner: Unified School District #259

Surveyor/Engineer: Moehring and Associates

1. Gross Acreage of Plat: 6.00 acres
 2. Number of Lots:
 - Residential:
 - Office:
 - Commercial:
 - Industrial:
 - Other: 1
 - Total: 1
 3. Minimum Lot Area: 5.45 acres
 4. Existing Zoning: "AA"
 5. Proposed Zoning: "AA"
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STAFF COMMENTS:

- A. The representative from the City Engineer's office should be prepared to discuss the status of the applicant's drainage concept for this property. Specifically, do any drainage improvements need to be guaranteed by this plat.
- B. The applicant shall install or guarantee the installation of all utilities and facilities which are applicable and described in Article 8 of the Subdivision Regulations.
- C. Requirements for a final plat (see pages 20-25, Part 4, Article 5 of the MAPC Subdivision Regulations).

Carl Sandwith
263-8291

PLAY GROUND DRAINAGE - WILSON SCHOOL ADD

D.A. = 2.61 Ac.

H = 2.5' & L = 440'

S = H/L = 2.5/440 = 0.57%

C = 0.35

For Overland Flow

$$T_{ic} = \frac{1.48 (1.1 - C) (L)^{1/2}}{(S\%)^{1/3}}$$

$$= \frac{1.48 (0.75) (440)^{1/2}}{(0.57)^{1/3}}$$

$$= \frac{1.03 \times 20.98}{.8291}$$

$$T_{ic} = 26 \text{ minutes}$$

Then, $I_{100} = 7.25''/\text{hr}$ for 26 minutes duration

From Rational Formula -

$$Q_{100} = C I_{100} A = 0.35 \times 7.25 \times 2.61$$

$$Q = 6.62 \text{ cfs}$$

Max. Allowable discharge / drainage
flume outlet = 7 cfs

- 1. Drainage Flume will be required near the S.W. property corner, to accommodate the Q_{100} discharge from the playground area.

The remaining 2.8 Ac., with buildings, drives, and parking areas, to be graded toward and discharged thru the 3 driveways on the East side of property

Exceeds Str. Gutter Capacity.

7/31/04
DCM