

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Albuquerque Gymnastics ZONE ATLAS/DRNG. FILE #: G-21 / ~~DRG~~ 12C.1

LEGAL DESCRIPTION: Lot 11-B Mesa Arriba Addition

CITY ADDRESS: 3605 Morris, N.E.

ENGINEERING FIRM: DENNEY-GROSS & ASSOCIATES, INC. CONTACT: Joe Jones

ADDRESS: 2400 Comanche Road, N.E. PHONE: 884-0696

OWNER: George Brunacini CONTACT: George Brunacini

ADDRESS: 3605 Morris, N.E. PHONE: 293-9570

ARCHITECT: N/A CONTACT: N/A

ADDRESS: N/A PHONE: N/A

SURVEYOR: DENNEY-GROSS & ASSOCIATES, INC. CONTACT: Steve Youtsey

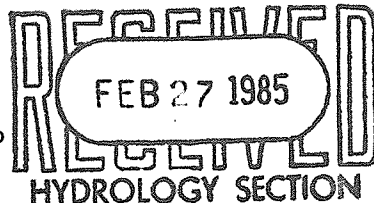
ADDRESS: 2400 Comanche Road, N.E. PHONE: 884-0696

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

PRE-DESIGN MEETING:

☒ YES
☐ NO
☒ COPY OF CONFERENCE RECAP SHEET PROVIDED



DRB No. 84-734 0/23/84
 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
☐ FOUNDATION PERMIT APPROVAL
☐ CERTIFICATE OF OCCUPANCY APPROVAL
☐ ROUGH GRADING PERMIT APPROVAL
☐ GRADING/PAVING PERMIT APPROVAL
☐ OTHER _____ (SPECIFY)

DATE SUBMITTED: 2/27/85

BY: Joseph Jones
 Joseph Jones



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

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

March 19, 1985

Joe Jones
Denney-Gross & Associates, Inc.
2400 Comanche Road, NE
Albuquerque, New Mexico 87107

RE: DRAINAGE PLAN FOR ALBUQUERQUE GYMNASTICS
(G-21/D120) RECEIVED FEBRUARY 27, 1985

D1201

Dear Mr. Jones:

The referenced plan dated February 27, 1985, is approved.

Please attach a copy of this approved plan to the construction set prior to Hydrology sign-off.

If you have any questions or comments regarding this project, please call me at 766-7644.

Cordially,

Carlos A. Montoya, P.E.
City/County Floodplain Administrator

CAM/bsj

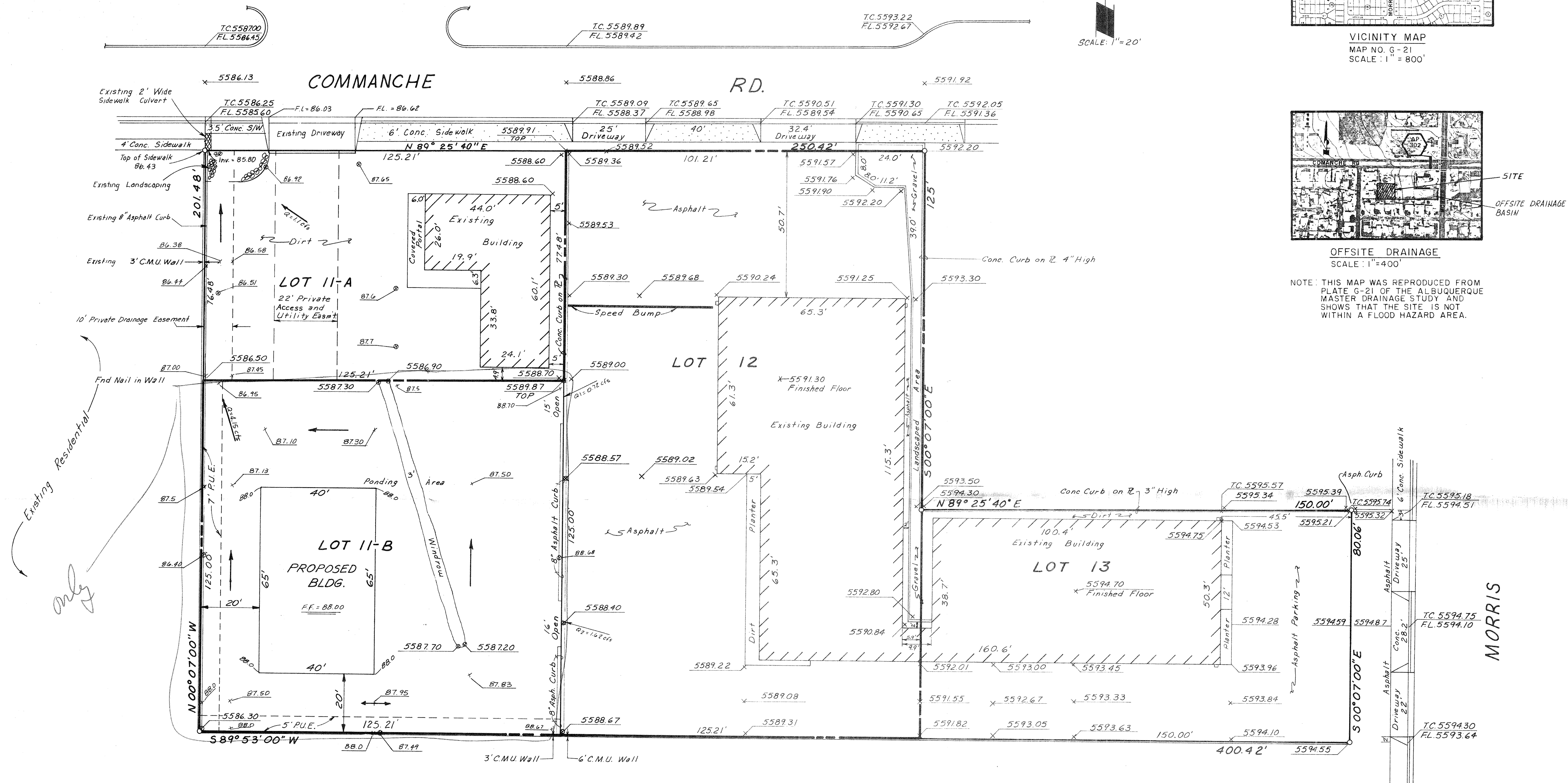
MUNICIPAL DEVELOPMENT DEPARTMENT

C. Dwayne Sheppard, P.E., City Engineer

ENGINEERING DIVISION

Telephone (505) 766-7467

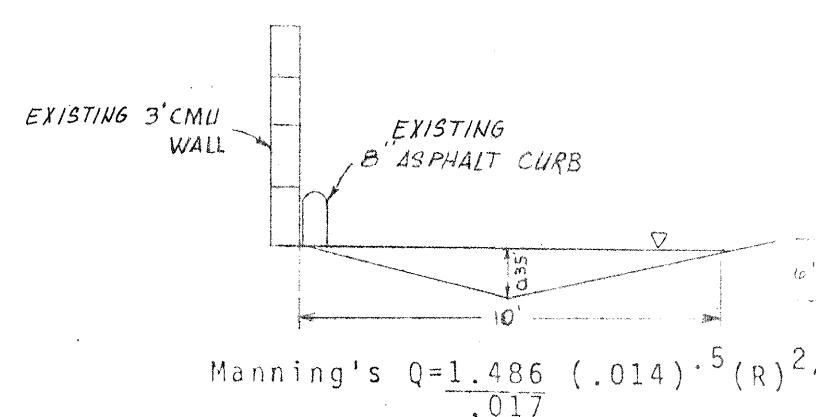
AN EQUAL OPPORTUNITY EMPLOYER



LEGEND

⊗ SPOT EL. (EXISTING)
 X SPOT EL. (PROPOSED)
 —→ FLOW LEADER

Capacity of easement swale


$$\text{Manning's } Q = \frac{1.486}{.017} (.014)^{.5} (R)^{2/3} A$$
$$Q = 5.26 \text{ cfs}$$
$$R = \Lambda / P \quad \text{solve: } d = 0.35'$$

A=5d V=3.0 fps

$$F=0,89$$

Onsite 100 YR Runoff
6HR-100 YR rain=2.5"
 $T_c = 10 \text{ min}$
 $I = 6.84(2.5)(10)^{-.51} = 5.28 \text{ in/HR}$
 $C = 0.95$
 $A = 0.36 \text{ Ac}$
 $Q_p = 0.98(5.28)(0.36) = 1.81 \text{ cfs}$

Offsite 100 YR Runoff

$$A = 0.47 \text{ } \Delta c$$
$$Q = 2.34 \text{ cfs}$$

100 YR Volume

$$V = 0.95(2.5/12)(0.36(43560)) = 3,100 \text{ cf}$$

Capacity of 2' sidewalk culvert

A) critical depth @ inlet

$$F^2 = V^2 / gd : F^2 = 1 \text{ @ critical depth}$$
$$V=Q/A \quad (Q/A)^2/gd=1$$
$$A = 2d \quad \text{solve}$$
$$g=32.2 \quad d=0.60' < 0$$
 $Q = 5.26$

B) Mani

$$Q = 1.486 \text{ S}^{1/2} R^{2/3} A$$
$$0 = 5.26$$

$S=0.019$ solve for d : $d=0.40'$ (OK)

 $\alpha = 0.013$

width=2

Total Q at inlet
Q=5.26 cfs

RECEIVED
FEB 27 1985
HYDROLOGY SECTION

GZI/DIC1

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: LOT II-B BLOCK 17, MESA ARRIBA ADDITION
DRAINAGE & GRADING PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.- Design			Traffic		
A.C.E.-Hydrology			Water		

DRAWING NO.	MAP NO. G - 21	SHEET	OF
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D.G.A. JOB No. 792.12